

2017.04
제35권 제1호

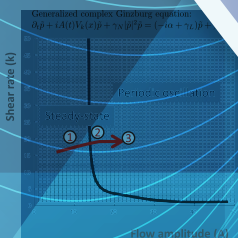
KPS 한국물리학회
The Korean Physical Society

Bulletin of the
Korean Physical Society

한국 물리학회 회보

2017년 봄 학술논문발표회
및 제93회 정기총회
2017 KPS Spring Meeting

2017.4.19(수) - 21(금)
대전컨벤션센터



Tokamak
plasma

Camera
view

C o n t e n t s

- 003 등록 및 발표장 안내
- 004 2017 한국물리학회 봄 학술논문발표회 및 제93회 정기총회 전체일정표
- 008 대전컨벤션센터 발표장 안내도
- 015 구두발표논문 시간표
- 129 포스터발표논문 시간표
- 215 발표자 색인

이번 호의 표지는 이재현, 윤건수, 최민준, 권재민, 전영무, 이우창, 박현거 회원의 최근 논문 Nonlinear Interaction of Edge-Localized Modes and Turbulent Eddies in Toroidal Plasma under $n=1$ Magnetic Perturbation, PRL 117, 075001 (2016) 에서 모티브를 채택했다. 이 논문에서는 난류성 맴돌이를 인위적으로 발생시킴으로써 고온 플라즈마 경계면에서 형성되는 고유 모드의 폭발을 방지할 수 있음을 입증하였다. 이번 봄 학술논문발표회에서 G5-p세션이 이와 연관된 세션이며, 윤건수 회원의 구두발표는 G5.04 이다.

등록 및 발표장 안내

1. 초록요약집(Epitome) 배부

초록요약집(Epitome)은 현장 등록 또는 사전 등록을 하신 분에게 배포합니다.

2. 등록비 및 회비

구 분		금 액	구 분		금 액
등록비	평의원 · 정회원	150,000원	구독료 (평의원 · 정회원)	1종류 구독	80,000원
	학생회원	90,000원		2종류 구독	120,000원
	비회원 일반	300,000원	구독료 (학생회원)	1종류 구독	40,000원
	비회원 학생	150,000원		2종류 구독	60,000원
회 비	평의원	100,000원	입회비	신입회원	10,000원
	정회원	50,000원			
	학생회원	20,000원			

3. 발표장

분과명	구두발표장		학회 주관 행사
입자 및 장물리학과	206호, 209호	포스터 발표장 1층 전시홀	총회: 301호
핵물리학과	101호		평의원회: 201호
응집물질물리학과	106호, 107호, 108호		기조강연: 301호
응용물리학과	103호, 104호		APCTP 저자강연: 301호
통계물리학과	202호		여성위원회강연: 201호
물리교육과	107호		정책세션 (연구자 주도 연구지원): 301호
플라스마물리학과	105호		정책세션 II(정부지원 기초연구사업): 301호
광학 및 양자전자학과	201호		KIAS 대중강연: 301호
원자 및 분자물리학과	205호		고교생 대상 강연: 201호
반도체물리학과	102호		
천체물리학과	204호, 205호		

4. 포스터 발표

- 포스터 발표는 “포스터 게시”, “포스터 발표”로 진행됩니다.
- 포스터 게시: 발표 당일 13:00부터 발표 다음날 12:00까지 (23시간) 지정장소에 부착 (발표자가 없는 동안에도 자유롭게 포스터를 볼 수 있게 하기 위해 23시간 동안 포스터를 게시합니다.)
- 포스터 발표: 발표일 18:00부터 19:30까지 (90분) 현장발표
- 우수포스터 시상: 최종 심사결과를 종합하여 선정 후 한국물리학회 홈페이지에 공지되고 상장이 개별 발송됩니다.

- 수요일의 P1 세션의 포스터 발표자의 경우: 수요일 13:00에 포스터를 지정 장소에 붙이고, 당일 저녁 18:00 ~ 19:30에 포스터 앞에 서서 발표를 하며, 다음 날인 목요일 12:00에 포스터를 뗍니다.
수요일 포스터 우수발표자의 포스터에는 목요일 12:00까지 리본이 부착됩니다.
- 목요일 P2 세션의 포스터 발표자의 경우: 목요일 13:00에 포스터를 지정 장소에 붙이고, 당일 저녁 18:00 ~ 19:30에 포스터 앞에 서서 발표를 하며, 다음 날인 금요일 12:00에 포스터를 뗍니다.
목요일 포스터 우수발표자의 포스터에는 금요일 12:00까지 리본이 부착됩니다.

5. 구두발표

- 모든 학술펠과 의 동의를 얻어 구두 발표시간을 아래와 같이 통일하여 진행합니다.
일반구두 발표: 12분/ 초청발표: 24분 (혹은 36분)
- 우수발표상 후보 논문은 초록요약집에 *로 표시되어 있습니다.

2017 한국물리학회 봄 학술논문발표회 및 정기총회 전체일정표

• 대전컨벤션센터 2017. 4. 19(수)~21(금)

구두발표 (Program by session code)

Room Number	101	102	103	104	105	106	107	108
4월 19일 (수)								
11:00~ 12:48	고에너지 물리협의회 10:00~12:30							
13:00~ 14:48 (Session A)	A1-nu	A2-se	A3-ap	A4-ap	E A5-pl	A6-co	A7-co	A8-co
15:00~ 17:48 (Session B)	B1-nu	B2-se	B3-ap	B4-ap	E B5-pl	B6-co	B7-co Condensed matter phys. Div. Meeting	B8-co BB8-co
18:00~ 19:30 (Poster P1)	P1-ap,1	P1-at	P1-co,1	P1-co,2	P1-co,3	P1-co,4	P1-co,5	P1-nu
4월 20일 (목)								
09:00~ 10:48 (Session C)	C1-nu	C2-se	C3-ap	C4-ap		E C6-co	C7-co	C8-co
11:00~ 12:48 (Session D)	D1-nu	T2-se	E T3-ap E D3-ap	E D4-ap	D5-pl	E D6-co	D7-co	E D8-co
13:00~ 13:48	KPS-KIAS Plenary (Y1-or)-(Room: 301)							
14:00~ 15:48 (Session E)	E E1-nu	E2-se	E E3-ap	E E4-ap	E5-pl	E6-co	E7-co	E8-co
16:00~ 17:48 (Session F)	E F1-nu	F2-se	E F3-ap	F4-ap	F5-pl Plasma Phys. Div. Meeting	F6-co	F7-te	F8-co
18:00~ 19:30 (Poster P2)	Nucl. Phys. Div. Meeting		Appl. Phys. Div. Meeting	P2-bp	P2-co,1	P2-co,2		P2-co,4
	P2-ap,1	P2-ap,2	P2-as				P2-co,3	
4월 21일 (금)								
09:00~ 10:48 (Session G)	G1-nu	G2-se	G3-ap	G4-ap	G5-pl	G6-co	G7-co	G8-co
11:00~ 12:48 (Session H)	H1-nu	H2-se	H3-ap	H4-ap	H5-pl	H6-co	H7-co	H8-co
	제1회 중이온 가속기구조사업 활용분야 설명회 13:30~17:00							

※ **E** session in English.

- Particle phys [pa] Nuclear phys [nu] Condensed matter phys [co] Applied phys [ap]
 Statistical phys [st] Physics teaching [te] Plasma phys [pl] Optical phys [op]
 Atomic&molecular phys [at] Semiconductor phys [se] Biological physics [bp] Astrophys [as]
 Special [or] Poster [p1, p2]

Room Number	201	202	204	205	206	209	301	
4월 19일 (수)								
11:00~ 12:48								
13:00~ 14:48 (Session A)	Women in physics A9-or	A10-st		A12-at	A13-pa	A14-pa		
15:00~ 17:48 (Session B)	평의원회 리셉션 준비	E B10-st Statistical phys. Div. Meeting T1-bp	B11-bp T1-bp	E B12-at	B13-pa	B14-pa Particle phys. Div. Meeting	APCTP author lecture B15-or	
18:00~ 19:30 (Poster P1)	KPS Fellow Meeting (19:00~)	P1-pl	P1-se	P1-st			All Hands Meeting	
4월 20일 (목)								
09:00~ 10:48 (Session C)	C9-op	C10-st	C11-as	C12-at	E C13-pa	C14-pa		
11:00~ 12:48 (Session D)	D9-op	D10-st	D11-bp	E D12-at	E D13-pa	D14-pa		
13:00~ 13:48	KPS-KIAS Plenary (Y1-or)-(Room: 301)							
14:00~ 15:48 (Session E)	E9-op	E10-st	E11-bp	E E12-at	E E13-pa	E14-pa	Researcher- led research support I E15-or	High school physics festival
16:00~ 17:48 (Session F)	Lecture for high-school students (F9-or)	F10-st	F11-bp	F12-as	E F13-pa	F14-pa	Govern. basic research proj. in 2017 F15-or	14:00~17:30 (2nd floor lobby)
18:00~ 19:30 (Poster P2)	P2-op	P2-pa	P2-pl	P2-te			KIAS Public Lecture 18:00~20:00 W15-or	
4월 21일 (금)								
09:00~ 10:48 (Session G)	G9-op		G11-co	G12-as		G14-pa		
11:00~ 12:48 (Session H)	H9-op			H12-as		H14-pa		

Program by session title

Room Number	101	102	103	104	105	106	107	108
4월 19일 (수)								
11:00~ 12:48	고에너지 물리학회 10:00~12:30							
13:00~ 14:48 (Session A)	Nucl. exp. method I	Compound semiconductor I	Optical&electrical devices	Properties of low- dim. materials	E Pioneer: Advanced hadron accel. I	Computational phys. I	Focus: Graphene and topo. materials I	Dielectrics
15:00~ 17:48 (Session B)	Nucl. exp. method etc. II/Nucl. reaction I	Focus: Low-dim. materials	Focus: Instrumentation	Focus: Graphene/2D materials	E Pioneer: Advanced hadron accel. II	Computational phys. II	Focus: Graphene & topo. materials II Condensed matter phys. Div. Meeting	Superconductivity I Superconductivity II
18:00~ 19:30 (Poster P1)	P1-ap.1	P1-at	P1-co.1	P1-co.2	P1-co.3	P1-co.4	P1-co.5	P1-nu
4월 20일 (목)								
09:00~ 10:48 (Session C)	Nucl. structure/ Hadron phys. I	Low D nanomaterials	Focus: 2D nanomaterials	Properties of 2D materials		E [E]Pioneer: Recent X-ray science I	Focus: Quan. coherence	Mag. I
11:00~ 12:48 (Session D)	Nucl. astrophysics/ Hadron phys. II	Tutorial: Energy harvesting tech.	E Tutorial: Dielectric physics for organic devices E Pioneer: 3rd Korea-Japan joint symp. I	E Pioneer: Epi. complex oxide films I	Accelerator & beam phys. and appl.	E Pioneer: Recent X-ray science II	Nano to meso. investigations	E Pioneer: Topo. semiconductors/ Mag. II
13:00~ 13:48	KPS-KIAS Plenary (Y1-or)-(Room: 301)							
14:00~ 15:48 (Session E)	E Pioneer: High-density QCD I	Focus: Extreme- limit nanoscopy	E Pioneer: 3rd Korea-Japan joint symp. II	E Pioneer: Epi. complex oxide films II	Focus: Frontiers in fusion & tech. I	Focus: Synch. & laser plasma x-ray studies	Focus: Nanoscale imaging	Mag. III
16:00~ 17:48 (Session F)	E Pioneer: High-density QCD II	Focus: Extreme environ. semiconductor	E Pioneer: 3rd Korea-Japan joint symp. III	Focus: Nanowire photonics	Focus: Frontiers in fusion & tech. II Plasma phys. Div. Meeting	Strongly correlated systems I	Physics teaching	Pioneer: Topo. semiconductors / Mag. IV
18:00~ 19:30 (Poster P2)	Nucl. Phys. Div. Meeting P2-ap.1	P2-ap.2	Appl. Phys. Div. Meeting P2-as	P2-bp	P2-co.1	P2-co.2	P2-co.3	P2-co.4
4월 21일 (금)								
09:00~ 10:48 (Session G)	Rel. heavy ion coll. I	Compound semiconductor II	Advanced materials	Device appl. of nanomaterials	Nuclear fusion/ Plasma appl.	Strongly correlated systems II	Surface/Interface/ Nanomaterial I	Mag. V
11:00~ 12:48 (Session H)	Rel. heavy ion coll. II / Nuclear reaction II	Semiconductor applications	Organic electronics / Biophysics	Photonics & optoelectronics	Plasma appl./ Basic phenomena	Strongly correlated systems III	Surface/Interface/ Nanomaterial II	Computational phys. III
	제1회 중이온 가속기 구축사업 현황 설명회 13:30~17:00							

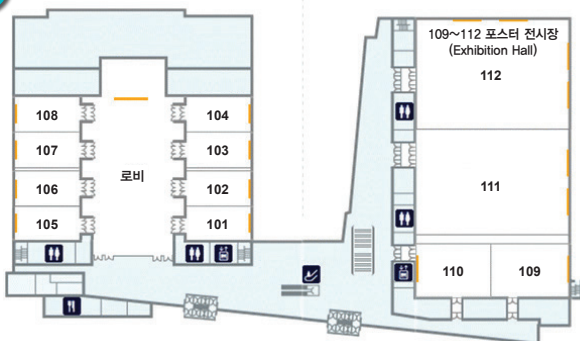
※ **E** session in English.

Room Number	201	202	204	205	206	209	301	
4월 19일 (수)								
11:00~ 12:48								
13:00~ 14:48 (Session A)	Women in physics	Complex systems		Atoms & molecules	Focus: Dark matter physics	Particle physics exp. I		
15:00~ 17:48 (Session B)	평의원회 리셉션 준비	E Focus: Statistical mechanics	Theory & Methods in Bio. Phys.	E Pioneer: Nonlinear Bose-Einstein condensate	Particle physics TH: Lattice & QCD	Particle physics exp. II	APCTP author lecture	
		Statistical phys. Div. Meeting	Tutorial: Bayesian approach			Particle physics Div. Meeting		
18:00~ 19:30 (Poster P1)	KPS Fellow Meeting (19:00~)	P1-pl	P1-se	P1-st			All Hands Meeting	
4월 20일 (목)								
09:00~ 10:48 (Session C)	Nanophotonics	Phase transition/Nonequilibrium	Astrophysics/ theory	Quantum optics & information	E Pioneer: KPS-JPS field theory symp. I	Particle physics exp. III		
11:00~ 12:48 (Session D)	Optical design & metrology	Complex systems	Focus: Mechano-biophysics of cells	E Pioneer: Quantum info. & control I	E Pioneer: KPS-JPS field theory symp. II	Particle physics exp. IV		
13:00~ 13:48	KPS-KIAS Plenary (Y1-or)-(Room: 301)							
14:00~ 15:48 (Session E)	Quan. optics & optical information	Soft matter and Biological physics	Molecular & cellular bio. physics I	E Pioneer: Quan. info. & control I	E Pioneer: Neutrino mass I	Particle physics TH: BSM Pheno	Researcher-led research support	High school physics festival 14:00~17:30 (2nd floor lobby)
16:00~ 17:48 (Session F)	Lecture for high-school students 16:00~17:00	Biological physics	Molecular & cellular bio. physics II	Toward multi-messenger astrophysics	E Pioneer: Neutrino mass II	Particle physics TH: Field & string	Govern. basic research proj. in 2017	
18:00~ 19:30 (Poster P2)	P2-op	P2-pa	P2-pl	P2-te			KIAS Public Lecture 18:00~20:00	
4월 21일 (금)								
09:00~ 10:48 (Session G)	High power light sources		Nano-meso. physics	Astrophysics/ theory and exp.		Particle physics exp: NoAcc-based I		
11:00~ 12:48 (Session H)	Vision & medical optics			Astrophysics/exp. & observations		Particle physics exp: NoAcc-based II		

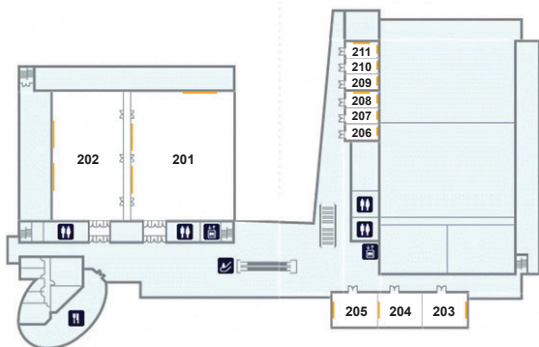
Particle phys [pa]	Nuclear phys [nu]	Condensed matter phys [co]	Applied phys [ap]
Statistical phys [st]	Physics teaching [te]	Plasma phys [pl]	Optical phys [op]
Atomic&molecular phys [at]	Semiconductor phys [se]	Biological physics [bp]	Astrophys [as]
Special [or]	Poster [p1, p2]		

대전컨벤션센터 발표장 안내도

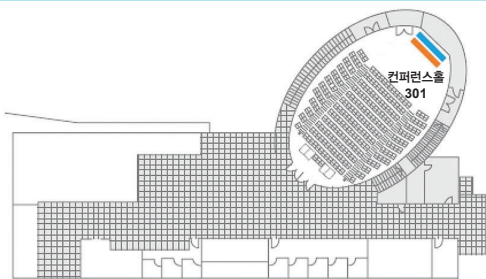
1F



2F



3F



Sessions organized by KPS committees

[Y1-Or] KPS-KIAS Plenary session	17
[A9-or] The lecture of the committee on the status of women in physics	18
[B15-or] The APCTP Authors Lecture	19
[E15-or] Researcher-led research support	20
[F9-or] The physics festival and lecture for high-school students	20
[F15-or] The vision for government funded basic research projects and the perspectives in 2017	21
[W15-or] KIAS public lecture - The Frontiers of Physics	21

Tutorial sessions

[T1-bp] Tutorial: Bayesian approach to data analysis	22
[T2-se] Tutorial: Energy harvesting technology	22
[T3-ap] Tutorial: Dielectric physics approach for analyzing molecular films and organic devices	23

Award winner sessions

A10.01(≡) Statistical Physics of Complex Dynamics	25
D13.01(≡) New Exact Results in Calabi-Yau spaces, D-branes, and O-planes	25

A: April 19(Wed) 13:00-14:48

[A1-nu] Nuclear Exp. Method etc. I	26
[A2-Se] Compound Semiconductor I	27
[A3-ap] Optical and Electrical Devices	28
[A4-ap] Properties of Low-dimensional materials	29
[A5-pl] [E]Pioneer: Advanced hadron accelerator system for research and application I	30
[A6-co] Computational condensed matter physics I	31
[A7-co] Focus: Graphene and Topological Materials	32
[A8-co] Dielectrics	32
[A9-or] The lecture of the committee on the status of women in physics	34
[A10-st] Complex Systems	34
[A11] No session	35
[A12-at] Atoms and molecules	35
[A13-pa] Focus: New perspectives on dark matter physics	36
[A14-pa] Particle Physics EXP: Acc-based I (Heavy Flavor)	37

B: April 19(Wed) 15:00-17:48

[B1-nu] Nuclear Exp. Method etc. II & Nuclear Reaction I	38
[B2-Se] Focus: Recent research trend for low dimensional materials	39
[B3-ap] Focus: Instrumentation	40
[B4-ap] Focus: Graphene/2D Materials-based Application	41
[B5-pl] [E]Pioneer: Advanced hadron accelerator system for research and application II	41
[B6-co] Computational condensed matter physics II	42
[B7-co] Focus: Graphene and Topological Materials	43
[B8-co] Superconductivity I	44
[B9] No session	45
[B10-st][E] Focus: Statistical Mechanics of Nonequilibrium Fluctuations	46

[B11-bp] Theory & Methods in Biological Physics	46
[B12-at] [E]Pioneer: Nonlinear dissipative quantum Bose-Einstein condensate	47
[B13-pa] Particle Physics TH: Lattice & QCD	48
[B14-pa] Particle Physics EXP: Acc-based II	49
[B15-or] The APCTP Authors Lecture	50
[BB8-co] Superconductivity II	50

C: April 20(Thu) 9:00-10:48

[C1-nu] Nuclear Structure & Hadron Physics I	52
[C2-Se] Low D nanomaterials	53
[C3-ap] Focus: Two-Dimensional Nanomaterials	54
[C4-ap] Properties of 2D Materials	55
[C5] No session	56
[C6-co] [E] Pioneer: Recent X-ray Science with X-ray Free Electron Laser	56
[C7-co] Focus: Quantum Coherence in Condensed Matter	56
[C8-co] Magnetism-I	57
[C9-op] Nanophotonics	59
[C10-st] Phase Transition/Nonequilibrium	59
[C11-as] Astrophysics/theory	60
[C12-at] Quantum Optics and Quantum Information	61
[C13-pa][E] Pioneer: New horizon of Field theories I	63
[C14-pa] Particle Physics EXP: Acc-based III (LHC)	63

D: April 20(Thu) 11:00-12:48

[D1-nu] Nuclear Astrophysics & Hadron Physics II	65
[D2] Tutorial (T2-se)	66
[D3-ap] [E] Pioneer: The 3rd Korea-Japan joint symposium on organic electronics I	66
[D4-ap] [E] Pioneer: Epi. complex oxide thin films I	66
[D5-pl] Accelerator & Beam physics and applications	67
[D6-co] [E] Pioneer: Recent X-ray Science with X-ray Free Electron Laser	68
[D7-co] Nano to Mesoscopic Investigations of Surface and Interface	69
[D8-co] [E] Pioneer: Topological Semiconductors / Magnetism II	70
[D9-op] Optical design and metrology	71
[D10-st] Complex Systems	71
[D11-bp] Focus: Mechano-biophysics of cells	72
[D12-at] [E] Pioneer: Quantum information and quantum control with real and artificial atoms I	73
[D13-pa] [E] Pioneer: New horizon of Field theories II	74
[D14-pa] Particle Physics EXP: Acc-based IV (LHC)	74

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[F3-ap] [E] Pioneer: The 3rd Korea-Japan joint symposium on organic electronics III	89
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[G9-op] High power light sources	109
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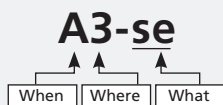
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세션코드 읽는 법 (How to read session codes?)



(1) 대문자는 시간을 의미함 (The capital letter : when)

- | | |
|--------------------------|-------------------------|
| A: Wednesday afternoon 1 | F: Thursday afternoon 2 |
| B: Wednesday afternoon 2 | G: Friday morning 1 |
| C: Thursday morning 1 | H: Friday morning 2 |
| D: Thursday morning 2 | I: Friday afternoon 1 |
| E: Thursday afternoon 1 | |

(2) 숫자는 장소를 의미함 (The number : where)

1: the first room. 2: the second room. But, they are not physical room number, 101, 102 etc. P1: 1st poster session.

(3) 마지막 문자 2개는 주제를 의미함 (The last two letters : what will be in the session, or which division organizes the session)

- | | |
|-------------------------------------|------------------------------|
| • ap : applied physics | • pl : plasma physics |
| • as : astrophysics | • nu : nuclear physics |
| • at : atomic and molecular physics | • se : semiconductor physics |
| • co : condensed matter physics | • st : statistical physics |
| • op : optical physics | • te : physics teaching |
| • pa : particle physics | • bp : biological physics |

The Korean Physical Society

구두발표논문 시간표

Oral session schedule

[Y1-Or] KPS-KIAS기조강연 KPS-KIAS Plenary session

2017. 4. 20 (Thu) 13:00 – 13:48

Room: #301

좌장: 박 권 고등과학원

Chair : PARK Kwon (KIAS)

Presenter: Jainendra K. Jain (Department of Physics, The Pennsylvania State University)

Title: Composite fermions and fractional quantum Hall effect: The magical beauty of emergence

Abstract: It is perhaps surprising that we can make any progress at all in understanding the behavior of a collection of a large number of interacting particles, given that even the problem of three interacting particles resists exact solution. The trick is to guess, guided by experiment, the emergent principles. This talk will address the amazing phenomenon of the fractional quantum Hall effect and show how the emergence of topological particles called composite fermions provides a unified explanation for it, while also revealing a treasure trove of new phenomena. I will also report on recent progress, including the development of a density functional theory for the fractional quantum Hall effect, and mention open problems and future directions.

[1] Jianyun Zhao, Manisha Thakurathi, Manish Jain, Diptiman Sen, J. K. Jain, unpublished.

[A9-or] 여성위원회 강연

The lecture of the committee on the status of women in physics

2017. 4. 19 (Wed) 13:00 – 14:48

Room: #201

좌장: 정 란 주 광운대

Chair : JUNG Ran-Ju (Kwangwoon Univ.)

2017년 여성세션의 주제는 “여성물리인의 경력개발”입니다. 여성물리인 뿐만 아니라 물리전공자들의 경력개발은 많은 회원님들의 관심사라고 생각됩니다. 특히 여성물리인으로서 가능한 경력개발에 관해 생각해보는 시간이 될 것입니다. 경력개발의 범위가 다양하기 때문에 짧은 시간에 모두를 포괄하기는 어려워 우선 국책연구소에서 연구를 수행하시는 연사님을 2분 섭외하기로 했습니다. 두 분의 강연을 통해 젊은 여성물리인 뿐만 아니라 모든 젊은 물리인들이 유용한 노하우를 얻어 갈 수 있길 바랍니다. 이와 더불어 2016년도 선정 ‘WISET-KPS 젊은과학자상’ 수상자(송지혜(부산대), 민경아(세종대), 김하나(충남대)) 발표도 있을 예정입니다.

[13:00 - 13:05]

인사말 / 정옥희 교수 (여성위원회 위원장, 순천대)

[13:05 - 13:20]

대형이온충돌기 실험팀에서의 공동연구 경험 / 송지혜 (부산대 물리학과)

[13:20 - 13:35]

학부과정부터 박사과정까지: 여성물리인이 되기 위한 노력 / 민경아 (세종대 물리학과)

[13:35 - 13:50]

레이저-플라즈마 가속 양성자빔의 실시간 에너지 스펙트럼 측정 및 분석 / 김하나 (충남대 물리학과, 한국원자력연구원 양자빔기반방사선연구센터)

[13:50 - 14:10]

국가핵융합연구소 여성과학기술인 유치 및 육성 전략 / 김준배 (국가핵융합연구소)

[14:10 - 14:30]

Ultrafast laser processing for industrial and photonics applications
/ 최지연 (한국기계연구원)

[14:30 - 14:48]

다과 및 토의

[B15-or] APCTP 저자 강연 The APCTP Authors Lecture

2017. 4. 19 (Wed) 15:00 – 16:48

Room: #301

좌장: 이 강 영 경상대

Chair : LEE Kang Young (Gyeongsang National Univ.)

APCTP에 선정된 10권의 우수과학도서 저자 중에서 2명을 초청하여 <저자와의 대화>를 마련하고자 합니다. 이 세션은 올해로 3년째를 맞고 있으며, 매우 좋은 호응을 얻고 있어서 앞으로는 APCTP 과학문화위원회가 운영하는 상설 세션으로 발전시킬 계획입니다. 2015년에는 장희익 교수님이 생명현상에 관해서, 그리고 천문연의 안상현 박사가님이 혜성에 관해서 말씀해 주셨고, 2016년에는 박진영 선생님이 공룡에 관해서, 그리고 김범준 교수님이 일상에 응용된 통계물리학에 대해서 각각 흥미로운 발표를 해 주셨습니다. 올해는 민족사관고 조진호 선생님 (게놈 익스프레스 저자) 과 서울대 홍성욱 교수님 (홍성욱의 STS, 과학을 경청하다 저자)께서 강연을 해주실 예정입니다.

[15:00 - 15:45]

만화로 만드는 과학 / 조진호 (민족사관고, “게놈 익스프레스” 저자)

[15:45 - 16:30]

쿤의 <과학혁명의 구조>를 넘어서 / 홍성욱 (서울대, “홍성욱의 STS, 과학을 경청하다” 저자)

[E15-or] 정책세션 I – 연구자 주도 연구 지원

Researcher-led research support

2017. 4. 20 (Thu) 14:00 – 15:48

Room: #301

좌장: 김 윤 기 광운대

Chair : KIM Yun Ki (Kwangwoon Univ.)

최근 분자생물학계와 생물학연구정보센터 BRIC을 중심으로 연구자 주도 연구지원 확대에 대한 연구자들의 목소리가 활발하게 개진되고 있습니다. 이는 미래창조과학부 등 정부 주무 부처에서 주요 연구사업의 기획을 주관해 오던 기존 방식, 즉 정부주도 연구지원 정책과 크게 대비 되는 방식입니다. 이번 봄 학술논문발표회에서는 이에 대해 첫 번째 특별세션으로 연구지원 관련 이슈와 쟁점, 1498명이 참여한 국회청원서 등 그간 진행되어 온 경과를 살펴보고 향후 방향에 대해 토론을 진행합니다.

[14:00 - 14:10]

학회장 인사말

[14:10 - 14:35]

정부 R&D 분석을 통해서 본 한국 과학정책의 문제 / 송지준 교수 (KAIST)

[14:35 - 15:00]

대한민국 미래를 위한 기초연구 발전 비전 / 윤성훈 과장*

(미래부, 기초연구진흥과장)

[15:00 - 15:20]

패널토론 / 최은하 (광운대), 노도영 (GIST)

[15:20 - 15:40]

질문과 답변

*미래부 기초연구진흥과장 불참 시 송호준 사무관 또는 서기관 대신 발표

[F9-or] 고등학생 물리 페스티벌 및 고교생 대상 강연

The physics festival and lecture for high-school students

2017. 4. 20 (Thu) 14:00 – 17:30

Room: #201

좌장: 이 신 범 대구경북과학기술원

Chair : LEE Shin Buhm (DGIST)

‘고등학생 물리 페스티벌’ 세션에서는 과학고, 과학중점고등학교, 일반 고등학교에 재학중인 고등학생으로 이루어진 팀이 R&E, 과제연구, 자유탐구로 수행한 독자적인 연구 활동을 통해 얻어진 결과를 발표하는 자리입니다. 미래 물리학자의 꿈을 가진 학생들의 행사에 회원 분들의 많은 관심 부탁드립니다. 작품발표후에는 참여 고교생들을 대상으로 KAIST 물리학과 김갑진 교수님을 모시고 스핀트로닉스에 대한 강연도 진행합니다.

[14:00 - 16:00]

포스터 및 작품 발표 (2층 복도)

[16:00 - 17:00]

고교생 대상 강연 :스핀트로닉스와 그 응용 / 김갑진 (KAIST)

[17:00 - 17:15]

우수 발표에 대해 한국물리학회장상 시상

[F15-or] 정책세션 II – 정부지원 기초연구사업 비전 및 2017년 사업 방향
The vision for government funded basic research projects and the perspectives in 2017

2017. 4. 20 (Thu) 16:00 – 17:00

Room: #301

좌장: **김 윤 기** 광운대

Chair : KIM Yun Ki (Kwangwoon Univ.)

자연과학 분야의 연구비 배분 정책과 선정의 현장에 있는 연사를 초청하여, 연구재단의 정부지원 기초연구사업에 대한 내용을 공유하고 기초연구사업의 비전 및 2017년 사업방향에 대한 내용을 주제로 한 강연과 연구자들의 의견을 수렴하는 시간을 갖고자 합니다.

[16:00 - 16:40]

2017년 기초연구사업 안내 / 이용훈 단장 (연구재단 자연과학단)

[16:40 - 16:55]

질의응답, 토의

[16:55 - 17:00]

마무리

[W15-or] KIAS 대중강연 – 물리학의 최전선
The Frontiers of Physics

2017. 4. 20 (Thu) 18:00 – 20:00

Room: #301

좌장: **백 승 원** 고등과학원

Chair : BAEK Seungwon (KIAS)

'물리학의 최전선'에서 활동하고 계시는 전문가의 최첨단 연구 결과 및 최근의 노벨상 수상 해설 강연을 통하여 기초과학에 관한 중고등학생과 대중의 관심을 높이고 과학문화의 대중화에 이바지하고자 합니다. 이번에는 성균관대학교 김범준 교수님과 KIAS 박권 교수님께서 강연해 주실 예정입니다.

[18:00 - 18:50]

물리학으로 보는 인간, 그리고 사회 / 김범준 (성균관대)

[19:00 - 19:50]

물리, 위상수학을 만나다 / 박권 (KIAS)

[T1-bp] Tutorial : Bayesian approach to data analysis

2017. 4. 19 (Wed) 17:00 – 17:36

Room: #204

좌장: 이 종 봉 포항공대

Chair: LEE Jong-Bong (POSTECH)

T1,01(초) [17:00 - 17:36]**과학 데이터의 베이지안 해석 / 조정효*** (아시아태평양 이론물리센터)

실험기술과 컴퓨터의 발전으로 정밀도가 높은 대용량의 데이터를 얻고 있는 요즘이다. 주어진 데이터에서 시스템에 대한 최대한의 정보를 얻어 내고 또 얻은 정보의 신뢰도를 여림하는 것이 점점 중요해 지고 있다. 본 튜토리얼에서는 주어진 데이터에서 서로 다른 가설들이 맞을 확률을 베이지안(Bayesian) 통계학을 이용해서 정량화하고 비교하는 방법을 다루고자 한다. 이를 통해 베이지안 접근법에 상반되는 non-Bayesian(frequentist) 접근법과의 차이를 소개하여 데이터 분석 방법을 합리적으로 선택할 수 있는 기초를 제공하고자 한다.

[T2-se] Tutorial : Energy harvesting technology

2017. 4. 20 (Thu) 11:00 – 13:00

Room: #102

좌장: 장 문 규 한림대

Chair: JANG Moon Gyu (Hallym Univ.)

T2,01(초) [11:00 - 12:00]**Triboelectric Energy Harvester / CHOI Yang-Kyu*** (Department of Electrical Engineering, KAIST)

Energy harvesting technique has come to the fore as a powerful candidate for operating wearable devices or wireless sensor networks, which cannot be directly supplied from generation facilities. Among various energy harvesting techniques, triboelectric nanogenerator (TENG) which generally converts ambient mechanical energy to usable electrical energy via contact-electrification and electrostatic induction, has attracted great deal of attentions owing to its cost-effectiveness, large output characteristics and diversity of application areas. In this tutorial session, a general overview of the triboelectric energy harvester is provided. Thereafter detailed technologies of the triboelectric energy harvester are introduced and discussed. For practical applications of TENG, a lot of efforts have been concentrated to further enhance output performance of TENG. Since TENG utilizes contact-electrification of surfaces, the output performance is largely affected by effective contact area. Therefore, micro/nano morphologies are generally constructed on the surface of TENG utilizing various fabrication methods such as bio-mimetics, plasma etching, soft-lithography, electro-deposition, and block copolymer lithography. Output performance enhancement of these topological approaches were verified with experimental results. Typically, outputs of those TENG were found to be enough to operate hundreds of light emission diodes (LEDs) or small electronics. Apart from the output performance, mechanical durability is potentially problematic because TENG often utilizes repeated

contact-separation or sliding of surfaces. Environmental factor such as relative humidity or airborne dust can severely degrades the output performance of TENG. With these concern, TENG having immunity against to relative humidity employing a superhydrophobic surface and TENG utilizing water or powder with packaged structure to suppress the effects of mechanical wear and environmental factors, have been developed. Vast applicable area is also a powerful strength of TENG. TENG can be transformed to various forms and TENG can be also applied to harvest diverse energy like ambient wind energy and electrostatic energy of water drop. Owing to its simple structure, TENG can easily be hybridized with other energy harvesting devices and more effective energy harvesting can be accomplished by this hybrid cell.

T2.02(초) [12:00 - 13:00]

박막 태양전지의 종류와 기술별 특성 / 윤선진* (한국전자통신연구원 ICT소재 부품연구소)

박막 태양전지 기술 전반을 다루며, 주위에서 가장 쉽게 볼 수 있는 실리콘 태양전지와 새로운 태양전지 기술로 분류되는 박막 태양전지에 대해 비교하여 살펴본다. 박막태양전지 중에서도 수십년간 연구 개발되어온 태양전지들이 있으며, 특히 최근에는 유기물을 기반으로 하는 태양전지 등이 고효율을 발표하며 미래 태양전지로서 큰 관심을 끌고 있다. 이러한 다양한 태양전지들의 광발전 원리를 설명하고, 장단점에 대해 논의하며, 그 특성에 근거하여 유용한 활용 분야들에 대해 살펴보고자 한다.

[T3-ap] Tutorial : Dielectric physics approach for analyzing molecular films and organic devices

2017. 4. 20 (Thu) 11:00 – 11:36

Room: #103

좌장: 임 은 주 단국대

Chair: LIM Eun Ju (Dankook University)

T3.01(초) [11:00 - 11:36]

Dielectric Physics Approach for Analyzing Molecular films and Organic Devices: Maxwell's Displacement Current and Electric field Optical Second harmonic Generation / IWAMOTO Mitsumasa*
(School of Engineering, Tokyo Institute of Technology)

According to the Maxwell electromagnetic field theory, Maxwell's displacement current flows due to change of electric flux density in solids, thin films, and monolayers. As the electric flux density change is induced along with dynamical carrier motions, by measuring Maxwell's displacement current (MDC), we can study dynamical carrier motions, including dipolar rotational motion, translational electron motion, and others. Thermally Stimulated Current (TSC) measurement is a good example of MDC, and it has been used for studying dipolar motions in bulk materials, and it has also been employed for studying thermally released from traps in solids and in electronic devices. On the basis of this technique, it has later been applied to study rotational dipolar motions in single monolayers (Maxwell's displacement current measuring technique [1]). Time of flight (TOF) method has also been used to study carrier transport of electrons and holes in thin films, where MDC current flowing across thin films due to

carrier transport is measured. As an extension of probing electric flux density change by MDC, we can find a way to directly probe and visualize carrier motions in thin films by directly probing dielectric polarization change induced by moving carriers and dipoles. The technique is an optical method based on electric field induced optical second harmonic generation (EFISHG) measurement [2]. This technique allows us to visualize carrier motions in organic devices, e.g., OFETs, OLEDs, OSCs etc. In this tutorial, you will find that dielectric physics approach is one of key ways to study carrier dynamics in molecular films and in organic devices.

A10.01(초) 2017. 4. 19 Wednesday [13:00 - 13:24]

Room: #202

Statistical Physics of Complex Dynamics / JO Hang-Hyun^{*1, 2}

(¹Department of Physics, POSTECH, ²Department of Computer Science, Aalto University)

D13.01(초) 2017. 4. 20 Thursday [11:00 - 11:24]

Room: #206

New Exact Results in Calabi-Yau spaces, D-branes, and O-planes /

LEE Sungjay^{*} (School of Physics Korea Institute for Advanced Study)

SESSION A

2017 April 19(Wed) 13:00 – 14:48

[A1-nu] Nuclear Exp. Method etc. I

2017. 4. 19 Wednesday 13:00 – 14:36

Room: #101

좌장 : 채 경 욱 성균관대학교

Chair: CHEA Kyung Yuk (Sungkyunkwan Univ.)

A1,01 [13:00 - 13:12]

Performance Test of FADC/TDC Electronics for the LAMPS Neutron Detector Array / LEE Jongwon^{*1}, AHN Jungkeun¹, HONG Byungsik¹, KIM Youngjin², KIM Sangyeol³ (¹Department of Physics, Korea University, ²Institute of Basic Science, ³Notice Korea Co.)

A1,02* [13:12 - 13:24]

Performance Test of a small-size Time Projection Chamber (sTPC) for Low-Energy Nuclear Experiments / KIM Shin Hyung, CHOI Won Ji, AHN Jung Keun^{*} (Department of Physics, Korea University)

A1,03* [13:24 - 13:36]

J-PARC E42/E45 하드론 실험을 위한 TPC Trigger Hodoscope 개발 / 정우승¹, 안정근^{*1}, 황상훈^{*2} (¹고려대학교 물리학과, ²한국표준과학연구원, 방사선표준센터, ³for the E42 Collaboration)

A1,04 [13:36 - 13:48]

Development of LAMPS Time Projection Chamber at RAON / 이효상^{*1}, 김영진¹, 류민상¹, 이광복¹, 김은희¹, Charles Anthony Akers¹, 박진형¹, 이종원² (¹기초과학연구원, ²고려대학교 물리학과)

A1,05 [13:48 - 14:00]

Development of a Pulsed Light Source for Photomultiplier Calibration / CHOI WonJi^{*}, AHN JungKeun, KIM ShinHyung (고려대학교 물리학과)

A1,06* [14:00 - 14:12]

Upgrades in the BGOegg Gamma Spectrometer for Photoproduction at LEPS2/SPRING-8 / 조자민¹, 안정근^{*1}, N. Muramatsu^{*2} (¹고려대학교 물리학과, ²(Tohoku) LEPS2-BGOegg Collaboration)

A1,07 [14:12 - 14:24]

Status report for CsI detector performance test with radioisotopes / LEE Han Seul¹, MOON Dong Ho^{*1}, BAK Gyeong Hwan¹, LEE Kyong Sei², AHN Jung Keun², HONG Byung Sik², PARK Jae Beom², KIM Young Jin³, KIM Eun Joo⁴, YI Jun Gyu⁵ (¹Department of Physics, Chonnam National University,

A1.08 [14:24 - 14:36]

Development of common software tools for data Quality Assurance in LHC-ALICE / BHOM Jihyun, OTWINOWSKI Jacek*, KOWALSKI Marek*, SPUTOWSKA Iwona* (Department of Physics, Institute of Nuclear Physics Polish Academy of Sciences)

[A2-Se] Compound Semiconductor I

2017. 4. 19 Wednesday 13:00 - 14:24

Room: #102

좌장: 조 만 호 연세대학교

Chair : CHO Mann-Ho (Yonsei Univ.)

A2.01* [13:00 - 13:12]

금속유기화학증착법을 이용한 질화갈륨 나노구조체의 3방향 대칭적 형태 조절 / 여환섭, 심영출, 이상원, 조용훈* (한국과학기술원 물리학과)

A2.02* [13:12 - 13:24]

공간 분해 분석법을 통한 단일 GaN 마이크로 막대 내부 InGaN 양자 우물의 특성 연구 / 조승혜¹, 최성한¹, 송현규¹, 김원호², 이은형², 노승원², 조용훈*¹ (¹한국과학기술원 물리학과, ²LGI노텍 R&D센터 선행부품연구소)

A2.03* [13:24 - 13:36]

단일양자점의 위치 정의 및 단광자 광원 제작 / 안대현*, 백종서, 장유동¹, 정혁, 이동한*, 김지훈², 송진동² (¹충남대학교 물리학과, ²한국과학기술연구원(KIST))

A2.04* [13:36 - 13:48]

Optical transition mechanisms and luminescence properties of digital-alloy InGaAlAs / CHO Il-Wook¹, RYU Mee-Y*¹, SONG Jin Dong² (¹Department of Physics, Kangwon National University, ²Korea Institute of Science and Technology)

A2.05 [13:48 - 14:00]

Analysis of kink effect in InAlAs/InGaAs MODFET / 안일호*, 김득영², 양우철³ (¹동국대학교 양자기능반도체연구소, ²동국대학교 반도체학과, ³동국대학교 물리학과)

A2.06* [14:00 - 14:12]

Optical Confinement of Exciton-Polariton Condensates in Semiconductor Microcavity / CHOI Daegwang¹, KWON Min-Sik¹, OH Byoung Yong¹, GONG Su-Hyun¹, KANG Hang Kyu², KANG Sooseok², SONG Jin Dong², CHOI Hyoungsoon¹, CHO Yong-Hoon*¹ (¹Department of Physics and KI for the NanoCentury, Korea Advanced Institute of Science and Technology (KAIST),

A2,07* [14:12 - 14:24]

Electrical properties and thermal stability in stack structure of $\text{HfO}_2/\text{Al}_2\text{O}_3/\text{InSb}$ by atomic layer deposition / BAIK Min¹, CHO Mann-Ho^{*1}, KANG Hang-Kyu¹, KANG Yu-Seon¹, JEONG Kwang-Sik¹, AN Youngseo², CHOI Seongheum², KIM Hyoungsub², SONG Jin-Dong³ (¹Institute of Physics and Applied Physics, Yonsei University, ²School of advanced Materials Science and Engineering, Sungkyunkwan University, ³Center of Opto-electronic materials, Korea Institute of Science and Technology)

[A3-ap] Optical and Electrical Devices

2017. 4. 19 Wednesday 13:00 – 14:48

Room: #103

좌장: 김 근 수 세종대학교

Chair: KIM Keun Soo (Sejong Univ.)

A3,01 [13:00 - 13:12]

Design and Fabrication of Thermoelectric Generator based on BiTe legs for Wearable Device Application / MOON Seung Eon* (ETRI)

A3,02* [13:12 - 13:24]

Metal-coated conductive textile-based triboelectric nanogenerator for harvesting airflow energy / DUDEM Bhaskar, KIM Dong Hyun, YU Jea Su* (Department of Electronic Engineering, Kyung Hee University)

A3,03 [13:24 - 13:36]

Effective energy harvesting from sliding water droplets using a flexible interdigital-electrode based triboelectric generator / YUN ByungKil, KIM HyunSoo, KO YoungJoon, JUNG JongHoon* (Department of Physics, Inha University)

A3,04* [13:36 - 13:48]

Transparent p-CuI/n-BaSn_{3-δ} Perovskite Oxide-based Heterojunction Diodes / LEE Jeong Hyuk¹, LEE Woong-Jhae¹, KIM Tai Hoon¹, KIM Kee Hoon^{*1,2} (¹Center for Novel States of Complex Materials Research, Department of Physics and Astronomy, Seoul National University, ²Institute of Applied Physics, Department of Physics and Astronomy, Seoul National University)

A3,05* [13:48 - 14:00]

Gamma-ray irradiation effect on electrical properties of bismuth layer-structure ferroelectric ceramics / CHO Samyeon, CHOI Gippeum, BU Sangdon* (Department of Physics, Chonbuk University)

A3.06* [14:00 - 14:12]

Surface electrical properties of Organic-Inorganic Lead-free Halide Mesoporous Perovskite Solar Cells with various I/Br compositional ratio / NGUYEN Bich Phuong, JUNG Hye Ri, NGUYEN Trang Thi Thu, YOON Seokhyun, JO William* (Department of Physics, Ewha womans university)

A3.07* [14:12 - 14:24]

3차원 증강현실 디스플레이에서 증강현실 이미지의 깊이 해상도 분석 및 검증. / 서재희, 박민영, 최희진* (세종대학교 물리학과)

A3.08* [14:24 - 14:36]

증강현실 시스템에서 영상의 거리에 따른 초점 조절 범위와 수렴 조절 범위 비교 / 이한울, 박민영, 최희진* (세종대학교 물리학과)

A3.09* [14:36 - 14:48]

시분할 라이트 필드를 이용한 증강 현실 3차원 디스플레이의 see-through 특성 개선 방법 제안 / 박민영, 이한울, 최희진* (세종대학교 물리학과)

[A4-ap] Properties of Low-dimensional materials

2017. 4. 19 Wednesday 13:00 - 14:48

Room: #104

좌장: 이 상 욱 이화여자대학교

Chair: LEE Sang-Wook (Ewha Womans Univ.)

A4.01* [13:00 - 13:12]

A fast and scalable silicon oxide resistive memory with tunable and well-defined single nanopore structure / WANG Gunuk*, KWON Soonbang (KU-KIST Graduate School of Converging Science and Technology, Korea University)

A4.02 [13:12 - 13:24]

MO₂ (M=Ti, Si) 층에서 나노 탄소 성장 특성 연구 / 이창묵, 최재우* (경희대학교, 정보디스플레이학과)

A4.03 [13:24 - 13:36]

Towards Physical Simulation of the Moiré Effect in Nanoparticles / SAVELJEV Vladimir, KIM Jaisoon* (Department of Physics, Myongji University)

A4.04 [13:36 - 13:48]

Charge transfer emission control by nonlocal dielectric constant near hyperbolic metamaterial structure / LEE Kwang Jin^{*1}, LEE Yeon Ui¹, FAGES Frederic², RIBIERRE Jean-Charles¹, WU Jeong Weon¹, D'ALEO Anthony² (¹Department of Physics, Quantum Metamaterial Research Center, Ewha Womans University, ²Aix Marseille Univ., CNRS, CINaM UMR 7325)

A4,05 [13:48 - 14:00]

Cs₄PbX₆ (X = Cl, Br, I) Zero-Dimensional Perovskite Nanocrystals and Their Transformation into CsPbX₃ Nanocrystals / PARK Sungwook*, JEONG Jung Hyun* (Department of Physics, Pukyong National University)

A4,06 [14:00 - 14:12]

First-principles tunneling property in Ge/a-GeO₂/Ge / KO Eunjung^{*1}, KAI Liu^{1,2}, CHOI Jung-Hae^{*1} (¹Center for Electronic Materials, Korea Institute of Science and Technology, ²Department of Materials Science and Engineering, Seoul National University)

A4,07* [14:12 - 14:24]

Nanoscopic characterizations of photo-generated carriers in P3HT-based hybrid nanostructures using Kelvin probe force microscopy / KIM Eunah¹, CHO Yuna¹, JANG Yu Jin², PARK Hyeong-Ho³, KIM Joondong⁴, KIM Dong Ha², KIM Dong-Wook^{*1} (¹Department of Physics, Ewha Womans University, ²Department of Chemistry and Nano Science, Ewha Womans University, ³Device Platforms Lab., Device Engineering Labs., Korea Advanced Nano Fab Center (KANC), ⁴Department of Electrical Engineering, Incheon National University)

A4,08 [14:24 - 14:36]

수정진동자 원자힘 현미경에 기반한 나노 피펫 잉크젯 프링팅에 대한 소개 / 안상민*, 김충만, 홍성훈, 윤호상, 제원호* (서울대학교 물리천문학부)

A4,09 [14:36 - 14:48]

Structural and electrical properties of proton-irradiated ZnO Nanorods / PARK Chang-In, JIN Zhenlan, HWANG In-Hui, HAN Sang-Wook* (Department of Physics Education and Institute of Fusion Science, Jeonbuk National University)

[E] [A5-pl] Pioneer: Advanced hadron accelerator system for research and application I

2017. 4. 19 Wednesday 13:00 – 14:36

Room: #105

좌장: 채 종 서 성균관대학교

Chair: CHAI Jong-Seo (Sungkyunkwan Univ.)

A5,01(초) [13:00 - 13:24]

RIKEN heavy-ion accelerator system / OKUNO Hiroki* (RIKEN Nishina Center for Accelerator-Based Science)

A5,02(초) [13:24 - 13:48]

High-power proton linear accelerator at IMP / ZHAO Hongwei* (Institute of Modern Physics, Chinese Academy of Sciences)

A5.03(초) [13:48 - 14:12]

Development of superconducting cavitis for RAON / JUNG

Hoechun*, SHIN Ilkyoung, JOO Jongdae, SEOL Kyungtae (Institute for Basic Science)

A5.04(초) [14:12 - 14:36]

Superconducting linear accelerators of RISP / KIM Jongwon* (RISP

Institute for Basic Science)

[A6-co] Computational condensed matter physics I

2017. 4. 19 Wednesday 13:00 – 14:48

Room: #106

좌장: 손 영 우 고등과학원

Chair: SON Young-Woo (KIAS)

A6.01 [13:00 - 13:12]

Novel topological crystalline insulator phase / KIM Youngkuk*

(Department of Physics, Sungkyunkwan University)

A6.02 [13:12 - 13:24]

Origins of Structural Phase Transition in bulk MoTe_2 and WTe_2 /

김현중¹, 강승훈¹, IKUTARO Hamada², 손영우*¹ (¹Korea Institute for Advanced Study, Korea, ²National Institute for Materials Science, Japan)

A6.03 [13:24 - 13:36]

A new series of two-dimensional silicon crystals / 채기성¹, 김덕영²,

손영우*¹ (¹고등과학원, ²Center for High Pressure Science and Technology Advanced Research (HPSTAR))

A6.04 [13:36 - 13:48]

Controlling process of CO_2 capture on transition-metal porphyrin-

like graphene with applying mechanical strain / PARK Sungjin, BAE Hyeonhu, LEE Hoonkyung, KWON Yongkyung* (Department of Physics, Konkuk University)

A6.05 [13:48 - 14:00]

First-principles calculations of the charge density wave in

$\text{Na}_2\text{Ti}_2\text{Sb}_2\text{O}$ and $\text{Na}_2\text{Ti}_2\text{As}_2\text{O}$ / KIM Heejeung¹, SHIM Jihoon², KIM Kyoo*^{1,3}, MIN B.I.*¹ (¹Department of Physics, University of Science and Technology, ²Department of Chemistry, University of Science and Technology, ³MPPC CPM, pohang University of Science and Technology)

A6.06 [14:00 - 14:12]

Effect of self-interaction error in band-edge of low-dimensional materials with lone pair electrons. / DEBBICHI Lamjed*, KIM Yong-

Hoon* (Graduate School of Energy, Environment, Water, and Sustainability

(EEWS), Korea Advanced Institute of Science and Technology (KAIST))

A6,07 [14:12 - 14:24]

Doping induced phase transitions in a single layer 1T'-TMD / LEE Jun-Ho, SON Young-Woo* (Korea Institute for Advanced Study)

A6,08 [14:24 - 14:36]

Thermal Transport Properties of Monolayer Gray-Arsenic using Electron-Phonon Coupling / KANG Seoung-Hun¹, KWON Young-Kyun*² (¹Korea Institute for Advanced Study, ²Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

A6,09 [14:36 - 14:48]

Quasiperiodic driving of Anderson localized waves in one dimension / DANIELI Carlo* (Center for Theoretical Physics of Complex Systems, Institute for Basic Science)

[A7-co] Focus: Graphene and Topological Materials

2017. 4. 19 Wednesday 13:00 – 14:48

Room: #107

좌장: 이 후 종 포항공과대학교

Chair: LEE Hu-Jong (POSTECH)

A7,01(초) [13:00 - 13:36]

Moiré superlattices in Dirac crystals / JUNG Jeil* (Department of Physics, University of Seoul)

A7,02(초) [13:36 - 14:12]

Interaction Effects in Atomically Thin Transition Metal Dichalcogenides with Ionic Liquid Gated Field Effect Transistor Structure / JO Sanghyun*^{1,2}, COSTANZO Davide¹, UBRIG Nicolas¹, MORPURGO Alberto F.¹ (¹University of Geneva, ²Samsung Advanced Institute of Technology)

A7,03(초) [14:12 - 14:48]

Manipulation of the edge states in two dimensional topological insulator / DOH Hyeonjin, CHOI Hyoung Joon* (Department of Physics, Yonsei University)

[A8-co] Dielectrics

2017. 4. 19 Wednesday 13:00 – 14:36

Room: #108

좌장: 이 윤 상 송실대학교

Chair: LEE Yun Sang (Soongsil Univ.)

A8,01 [13:00 - 13:12]

Mixed electrochemical-ferroelectric states in ultrathin ferroelectric

A8.02* [13:12 - 13:24]

Local electrical conduction in twin domains of epitaxial LaMnO₃ thin films / KIM Yong-Jin¹, LEE Jin Hong¹, KIM Sang-Woo², KOO Tae Yeong², YANG Chan-Ho^{*1,3} (¹Department of Physics, KAIST, ²Pohang Accelerator Laboratory, Pohang University of Science and Technology, ³Institute for the NanoCentury, KAIST)

A8.03* [13:24 - 13:36]

Investigation of ferroelectric domain states of BiFeO₃ thin films by second harmonic generation microscopy / 노창재¹, 함선영¹, 이진홍², 김광은², 우창수², 양찬호², 이종석^{*1} (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST), ²Department of Physics Korea Advanced Institute of Science and Technology (KAIST))

A8.04* [13:36 - 13:48]

Local structural changes in (1-x)BiFeO₃-xBaTiO₃ bulk ceramic measured by X-ray microdiffraction / WI Sangwon, CHUNG Jin-Seok* (Department of Physics, Soongsil University)

A8.05 [13:48 - 14:00]

Polarization Dependence of Raman Spectra at the Polymorphic Phase Transition of Potassium Alum KAl(SO₄)₂·12H₂O / LEE Kwang-Sei^{*1}, KIM Kangwon², CHEONG Hyeonsik² (¹Department of Nano Science & Engineering, Inje University, ²Department of Physics, Sogang University)

A8.06* [14:00 - 14:12]

Observation of Oxygen Vacancies in SrTiO₃ Epitaxial Thin Film using Graphene as Quantum conductance probe / KANG Kyeong Tae^{1,2}, KANG Haeyong³, PARK Jeongmin^{2,3}, SUH Dongseok^{*3}, CHOI Woo Seok^{*1} (¹Department of Physics, Sungkyunkwan University, ²Center for Integrated Nanostructure Physics, Institute for Basic Science (IBS), ³Department of Energy Sciences, Sungkyunkwan University)

A8.07* [14:12 - 14:24]

Dynamics of geometrically frustrated domain in (111)-oriented PbTiO₃ thin film / JIN Hye-Jin¹, JO William^{*1}, SHIN Young-Han² (¹Department of Physics, Ewha Womans University, ²Department of Physics, University of Ulsan)

A8.08* [14:24 - 14:36]

Enhanced ferroelectric properties of sulfur diffused layered Pb(Zr_{0.52}Ti_{0.48})O₃ thin film / SHEERAZ Muhammad, KIM Tea Heon, KIM III

[A9-or] The lecture of the committee on the status of women in physics

2017. 4. 19 Wednesday 13:00 – 14:48

Room: #201

좌장: 정 란 주 광운대

Chair: JUNG Ran-Ju (Kwangwoon Univ.)

A9.01 [13:05 - 13:20]

대형이온충돌기 실험팀에서의 공동연구 경험 / 송지혜 (부산대 물리학과)

A9.02 [13:20 - 13:35]

학부과정부터 박사과정까지: 여성물리인이 되기 위한 노력 / 민경아 (세종대 물리학과)

A9.03 [13:35 - 13:50]

레이저-플라즈마 가속 양성자빔의 실시간 에너지 스펙트럼 측정 및 분석 / 김하나 (충남대 물리학과, 한국원자력연구원 양자빔기반방사선연구센터)

A9.04 [13:50 - 14:10]

국가핵융합연구소 여성과학기술인 유치 및 육성 전략 / 김준배 (국가핵융합 연구소)

A9.05 [14:10 - 14:30]

Ultrafast laser processing for industrial and photonics applications / 최지연 (한국기계연구원)

[A10-st] Complex Systems

2017. 4. 19 Wednesday 13:00 – 14:36

Room: #202

좌장: 육 순 형 경희대학교

Chair: YOOK Soon Hyung (Kyung Hee Univ.)

A10.01(초) [13:00 - 13:24]

Statistical Physics of Complex Dynamics / JO Hang-Hyun^{*1, 2}
(¹Department of Physics, POSTECH, ²Department of Computer Science, Aalto University)

A10.02(초) [13:24 - 13:48]

Recent studies on percolation and synchronization / 조영설* (전북대학교 물리학과)

A10.03(초) [13:48 - 14:12]

Hybrid phase transitions: properties, mechanism and remaining

A10.04 [14:12 - 14:24]

Finding topologically associated domains in chromosome interactions via network community identification / LEE Sang Hoon^{*1}, JEON Jae-Hyung², LEE Sungmin³, DURANG Xavier¹, LIZANA Ludvig⁴, STENBERG Per⁵ (¹School of Physics, Korea Institute for Advanced Study, ²Department of Physics, Pohang University of Science and Technology, ³Department of Energy Science, Sungkyunkwan University, ⁴Department of Physics, Umea University, Sweden, ⁵Department of Molecular Biology, Umea University, Sweden)

A10.05 [14:24 - 14:36]

Quantifying Musical Originality and Influence from the Complex Network of Codewords / PARK Doheum, PARK Juyong* (Graduate School of Culture Technology, KAIST)

[A11] No session

[A12-at] Atoms and molecules

2017. 4. 19 Wednesday 13:00 – 14:48

Room: #205

좌장: 김 동 희 광주과학기술원

Chair: KIM Dong Hee (GIST)

A12.01(초) [13:00 - 13:24]

An Yb Optical Clock - 1 s error in 0.2 billion years / KIM Huidong^{*1}, HEO Myoung-Sun¹, LEE Won-Kyu^{1,2}, PARK Chang Yong^{1,2}, HONG Hyun-Gue¹, HWANG Sang-Wook¹, YU Dai-Hyuk¹ (¹Korea Research Institute of Standards and Science, ²University of Science and Technology)

A12.02* [13:24 - 13:36]

Creation of an ultracold Fermi gas of 6Li atoms with strong interactions / KO Bumsuk^{1,2}, HONG Deokhwa¹, PARK JeeWoo^{*1}, SHIN Yong-il^{*1,2} (¹Department of Physics and Astronomy and Institute of Applied Physics, Seoul National University, ²Center for Correlated Electron Systems, Institute for Basic Science)

A12.03* [13:36 - 13:48]

Breakdown of Babinet's principle in atom optics / KIM LeeYeong¹, LEE JuHyeon², SCHÖLLKOPF Wieland³, ZHAO BumSuk^{*1,2} (¹Department of Physics, UNIST, Korea, ²Department of Chemistry, UNIST, Korea, ³Fritz-Haber-Institut der Max-Planck-Gesellschaft, Germany)

A12.04* [13:48 - 14:00]

Double resonance of Raman transitions in a two-electron degenerate Fermi gas / LEE Moosong^{1,2}, HAN Jeong Ho², KANG Jin Hyoun^{1,2}, KIM Min-Seok², SHIN Y.*^{1,2} (¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, Seoul National University (SNU))

A12.05* [14:00 - 14:12]

Strong Optical Dipole Force Exerted on Molecules Having Low Rotational Temperature / JIN Byung Gwon¹, SUN Xing Nan³, KIM Lee Yeong², KIM Bong Jun¹, ZHAO Bum Suk*^{1,2} (¹Department of Chemistry, UNIST, Korea, ²Department of Physics, UNIST, Korea, ³Department of Chemistry, Yanbian University, China)

A12.06* [14:12 - 14:24]

Atom interferometer gyroscope using cold atom beam / LEE Jehyun*¹, KIM Ji-Hyoun², YOON Seokchan¹, YOON Tai-Hyun¹, CHO D.¹ (¹Department of Physics, Korea University, ²Department of Physics, Seoul University)

A12.07* [14:24 - 14:36]

Carrier-Envelope-Phase Dependence of Above-threshold Ionization Spectrum in a Few-Cycle Regime / KIM Yang Hwan^{1,2}, KIM Kyung Taec*^{1,2} (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Center for Relativistic Laser Science, Institute for Basic Science)

A12.08 [14:36 - 14:48]

Quantum Dynamics Simulations Using Time-Dependent Density Functional Theory / 방준혁*, ZHANG Shengbai² (¹한국기초과학지원연구원, 스펙트럼물리연구팀, ²RPI, 물리학과)

[A13-pa] Focus: New perspectives on dark matter physics

2017. 4. 19 Wednesday 13:00 – 14:48

Room: #206

좌장: 배 규 정 기초과학연구원

Chair: BAE Kyu Jung (IBS)

A13.01(초) [13:00 - 13:36]

The Self-Interacting Dark Matter Paradigm / YU Hai-Bo* (Department of Physics and Astronomy, University of California, Riverside)

A13.02(초) [13:36 - 14:12]

The status and prospect of light dark matter / LEE Hyun Min* (Department of Physics, Chung-Ang University)

A13.03 [14:12 - 14:24]

Dark Matter "Transporting" Mechanism for Cosmic-Ray Excesses

/ KIM Doojin¹, PARK Jong-Chul^{*2}, SHIN Seodong³ (¹Theory Division, CERN, ²Department of Physics, Chungnam National University, ³Department of Physics & IPAP, Yonsei University)

A13.04 [14:24 - 14:36]

Kinetic decoupling of dark matter: how it affects the relic abundance / KAMADA Ayuki* (기초과학연구원 순수물리이론연구단)

A13.05 [14:36 - 14:48]

Probing the chirality of dark matter at colliders with dark photon showering / PARK Myeonghun* (기초과학연구원 순수물리이론연구단)

[A14-pa] Particle Physics EXP: Acc-based I (Heavy Flavor)

2017. 4. 19 Wednesday 13:00 - 14:24

Room: #209

좌장: 원은일 고려대학교

Chair: WON Eunil (Korea Univ.)

A14.01(초) [13:00 - 13:24]

Quark Flavoured Anomalies of the SM / CHRZASZCZ Marcin Jakub*

(Physik Institute, university of Zurich, Institute of Nuclear Physics, Polish Academy of Sciences)

A14.02(초) [13:24 - 13:48]

Recent results on B and charm decays from Belle / KWON

Youngjoon^{*1}, WON Eunil², AHN J. K.², CHEON B. G.³, KIM S. K.⁴, KIM Doris Y.⁵, JOO K. K.⁶, CHOI S. K.⁷, PARK H. B.⁸, CHO K. H.⁹ (¹Dept. of Physics, Yonsei University, ²Dept. of Physics, Korea University, ³Dept. of Physics, Hanyang University, ⁴Dept. of Physics, Seoul National University, ⁵Dept. of Physics, Soongsil University, ⁶Dept. of Physics, Chonnam National University, ⁷Dept. of Physics, Gyeongsang National University, ⁸Dept. of Physics, Kyungpook National University, ⁹KISTI)

A14.03(초) [13:48 - 14:12]

The Simulation Library of the Belle II Software System / KIM Doris Y.^{*1,2}

(¹Department of Physics, Soongsil University, ²On behalf of the Belle II Simulation Group)

A14.04* [14:12 - 14:24]

Stability Monitoring for the ECL Trigger System of Belle-II Experiment / 김영준^{*1}, 이인수², 김성현², Y.Unno², 최원지¹, 천병구², 안정근¹

(¹Korea University, ²Hanyang University)

SESSION B

2017 April 19(Wed) 15:00 – 17:48

[B1-nu] Nuclear Exp. Method etc. II & Nuclear Reaction I

2017. 4. 19 Wednesday 15:00 – 16:36

Room: #101

좌장 : 안 정 근 고려대학교

Chair: AHN Jung Keun (Korea Univ.)

B1.01 [15:00 - 15:12]

Status report for Si-Csl detector simulation study with IQMD simulated data at Low-LAMPS (Large Acceptance Multi-Purpose Spectrometer) / BAK Gyeong Hwan¹, MOON Dong Ho^{*1}, LEE Han Seul¹, LEE Kyong-Sei², AHN Jung Keun², HONG Byungsik², PARK Jae Beom², KIM Yong Jin³, KIM Eun-Joo⁴ (¹Department of Physics, Chonnam National University, ²Department of Physics, Korea University, ³Institute for Basic Science, ⁴Division of Science Education, Chonbuk National University)

B1.02* [15:12 - 15:24]

Development of the Hyperon Spectrometer for H-Dibaryon Search Experiment at J-PARC / KIM Shin Hyung, AHN Jung Keun* (Department of Physics, Korea University)

B1.03* [15:24 - 15:36]

Luminescence and Scintillation properties of $\text{Ti}_2\text{LaBr}_5\text{:Ce}^{3+}$ crystal / KHAN Arshad¹, KIM HongJoo^{*1}, ROOH Gul², KIM Sunghwan³, CHEON J G4 (¹Department of Physics, Kyungpook National University, ²Department of Physics, Abdul Wali Khan University, ³Department of Radiological Science, Cheongju University, ⁴Department of Health and Welfare, Sorabol college)

B1.04* [15:36 - 15:48]

Systematic study of $\text{Na}_2\text{Mo}_2\text{O}_7$ single crystal / PANDEY Indra Raj, KIM Hongjoo* (Department of Physics, Kyungpook National University)

B1.05 [15:48 - 16:00]

Update on an upgraded silicon PIN photodiode based radon detector for underground experiments environment / SEO Kyung min¹, LEE Moo hyun^{*2}, KIM Yeong duk^{1,2}, LEE Hyunsu², OLSEN Stephen Lars², KIM Yong ham², KIM Hong joo³, LEE Jaison², PARK Chan woo³, KIM Wootae², KIM Hyung gyu², JEON Eunju², PARK Jung sik², LEONARD Douglas², HA Chang hyun², KIM Nam young², JANG Sang cheol⁴, LEE Hyun seop⁵, PARK Hyang gyu², KIM Hyunsoo¹, KIM Sung hyun², YOON Young soo² (¹Department of Physics, Sejong University, ²Center for Underground Physics, Institute for Basic Science, ³Department of Physics, Kyungpook National University, ⁴Department of Physics, Seoul National University, ⁵VIGS Corporation)

B1.06* [16:00 - 16:12]

Measurement of the neutron induced cross-sections of the ^{165}Er , ^{163}Er , ^{161}Er and ^{167}Ho from the $^{\text{nat}}\text{Er}(n,x)$ reactions by energies of 14.1 to 36.9 MeV / NADEEM Muhammad, KIM Guinyun*, KIM Kwangsoo*, ZAMAN Muhammad*, NGUYEN Hien Thi* (Department of Physics, Kyungpook National University)

B1.07* [16:12 - 16:24]

Daejeon Boltzmann-Uehling-Uhlenbeck (DJBUU) results comparison and box calculation / 김명국¹, 이창환*¹, 김영만², 전상용³ (부산대학교 물리학과, ²기초과학연구원 중이온가속기구조사업단, ³맥길대학교 물리학과)

B1.08 [16:24 - 16:36]

Ti 동위원소에 대한 고속 중성자 입사 핵반응 단면적 평가 / 김형일*, 이철우, 이영욱 (한국원자력연구원 원자력데이터개발검증센터)

[B2-Se] Focus: Recent research trend for low dimensional materials

2017. 4. 19 Wednesday 15:00 - 17:48

Room: #102

좌장: 김 기 강 동국대학교

Chair: KIM Ki Kang(Dongguk Univ.)

B2.01(초) [15:00 - 15:24]

Wafer-scale production of highly uniform two-dimensional MoS₂ by metal organic chemical vapor deposition / KIM Taewan*, MUN Jihun, KANG Sang-Woo* (Center for Vacuum Technology, Korea Research Institute of Standards and Science)

B2.02(초) [15:24 - 15:48]

Nanogap-Enhanced Raman Scattering (NERS) / SUH Yung Doug*^{1, 2} (¹Research Ctr. for Convergence NanoRaman Tech., Korea Research Institute of Chemical Technology, ²School of Chemical Engineering, SungKyunKwan University)

B2.03(초) [15:48 - 16:12]

Solution processable graphene and its application / 정승열*^{1, 2} (¹한국전기연구원(KERI) 나노융합기술연구센터, ²과학기술연합대학원대학교(UST) 전기기능소재공학)

B2.04(초) [16:12 - 16:36]

Functional-material-incorporated carbon-nanotube sheets and yarns / SUH Dongseok* (Department of Energy Science, Sungkyunkwan University)

B2.05(초) [16:36 - 17:00]

Monocrystalline monolayer hBN; Synthesis & Applications /

김수민* (Korea Institute of Science and Technology (KIST))

B2,06(초) [17:00 - 17:24]

Future Research Direction of Graphene for Real Industrial Applications: Large-Area Single Crystalline Graphene / 최재영*
(성균관대학교 신소재공학부)

B2,07(초) [17:24 - 17:48]

MoS₂ Field Effect Transistor에서 Schottky Barrier Height (SBH)의 변화 / 임성주¹, 문병희², 이진희^{1, 2}, Hamza Zad Gul¹, 이영희^{1, 2} (¹성균관대학교 에너지 과학과, ²나노구조물리 연구단 (CINAP), 기초과학 연구원 (IBS), 성균관대학교)

[B3-ap] Focus: Instrumentation

2017. 4. 19 Wednesday 15:00 – 16:48

Room: #103

좌장: 김 정 대 울산대학교

Chair: KIM Jungdae (Univ.of Ulsan)

B3,01(초) [15:00 - 15:24]

Pulsed Laser Deposition (PLD) setup and in situ UHV measurements / 장영준* (서울시립대 물리학과)

B3,02(초) [15:24 - 15:48]

Designing and Installing of Chemical Vapor Deposition Equipment for Low-dimensional Materials / KIM KeunSoo* (Department of Physics & Graphene Research Institute, Sejong University)

B3,03(초) [15:48 - 16:12]

Introduction to sputtering techniques for researches on condensed-matter physics / 백승협* (한국과학기술연구원 전자재료연구단)

B3,04(초) [16:12 - 16:36]

MBE (Molecular Beam Epitaxy) 설계 및 제작 / 조성래* (울산대학교 물리학과)

B3,05 [16:36 - 16:48]

Se/Sn flux ratio effect on epitaxial SnSe thin films / NGUYEN Van Quang¹, DUONG Van Thiet¹, NGUYEN Thi Huong¹, KANG Rakwon¹, TRAN Thi Toan¹, NGUYEN Cao Khang², DUONG Anh Tuan¹, CHO Sunglae¹
(¹Department of Physics and Energy Harvest Storage Research Center, University of Ulsan, ²Hanoi National University of Education, Vietnam)

[B4-ap] Focus: Graphene/2D Materials-based Application

2017. 4. 19 Wednesday 15:00 – 16:36

Room: #104

좌장: 최진식 건국대학교

Chair: CHOI Jin Sik (Konkuk Univ.)

B

B4.01(초) [15:00 - 15:24]

Graphene/MoS₂ based Hall Effect Magnetic Sensors / SUH

Dongseok^{*1}, JOO Min-kyu², KIM Joonggyu¹ (¹Department of Energy Science, Sungkyunkwan University, ²Center for Integrated Nanostructured Physics, Institute for Basic Science, Sungkyunkwan University)

B4.02(초) [15:24 - 15:48]

Recent progress in van der Waals heterojunction devices for multi-valued logic (MVL) / 박진홍^{*1, 2}

(¹성균관대학교 전자전기공학부, ²성균관대학교 성균나노과학기술원(SAINT))

B4.03(초) [15:48 - 16:12]

Scalable nano-crystalline Graphene/Metal Hybrid Interconnect: From Synthesis to Integration / 이창석^{*}

(삼성종합기술원)

B4.04 [16:12 - 16:24]

Synthesis and application for gas sensing by using 2D WS₂ / PARK

Jusang, KIM Hyungjun^{*}, KO kyungYong (School of Electrical and Electronic Engineering, Yonsei University)

E [B5-pl] Pioneer: Advanced hadron accelerator system for research and application II

2017. 4. 19 Wednesday 15:00 – 16:36

Room: #105

좌장: 김종원 기초과학연구원

Chair: KIM Jong-Won (IBS)

B5.01(초) [15:00 - 15:24]

Recent trends for proton therapy accelerator system / CHAI Jong-Seo^{*}

(College of Information and Communication Engineering, Sungkyunkwan University)

B5.02(초) [15:24 - 15:48]

Construction of A Heavy Ion Beam Irradiation Facility / OH Byung-Hoon,

CHANG Dae-Sik^{*}, HUH Sung-Ryul^{*}, LEE Seok-Kwan^{*}, JIN Jeong-Tae^{*}, HWANG Churl-Kyu^{*} (Korea Atomic Energy Research Institute)

B5.03(초) [15:48 - 16:12]

Status Report of Versatile Ion Beam Accelerator Facility / LEE

ByoungSeob^{*}, PARK JinYong, HONG Jonggi, BAHNG Jungbae, KIM SeongJun,

OK JungWoo, WON MiSook (Korea Basic Science Institute)

B5.04(초) [16:12 - 16:36]

Present Status of SCL demo for RISP / JANG Ji-Ho* (Rare Isotope Science Project / Institute for Basic Science)

[B6-co] Computational condensed matter physics II

2017. 4. 19 Wednesday 15:00 – 16:48

Room: #106

좌장: **김 용 훈** 한국과학기술원

Chair: KIM Yong-Hoon (KAIST)

B6.01(초) [15:00 - 15:24]

First-principles study of metal-TMD contacts with Fermi level pinning / MIN Kyung-Ah, HONG Suklyun* (Department of Physics and Graphene Research Institute, Sejong University)

B6.02* [15:24 - 15:36]

Quantum Monte Carlo study for blue phosphorus / AHN Jeonghwan, HONG Iuegyun, KWON Yongkyung* (Department of Physics, Konkuk University)

B6.03* [15:36 - 15:48]

Thermoelectric and phonon transport properties of two-dimensional IV-VI compounds: SnSe, SnS, GeSe, and GeS / SHAFIQUE Aamir, SHIN Young-Han* (Department of Physics, University of Ulsan)

B6.04* [15:48 - 16:00]

Enhancement of thermoelectric properties of SnSe by C-doping : a first principles study* / DO Duc Cuong¹, RHIM S.H.*¹, LEE Joo-Hyoung², HONG Soon Cheol*¹ (¹Department of Physics and Energy Harvest Storage Research Center, University of Ulsan, ²School of Materials Science and Engineering, Gwangju Institute of Science and Technology)

B6.05* [16:00 - 16:12]

First-principles studies on the interfacial electronic structure of III–V/Si and II–VI/Si superlattices / KANG Byeol, LEE Joo-Hyoung* (School of Materials Science and Engineering, Gwangju Institute of Science and Technology)

B6.06* [16:12 - 16:24]

Ab initio study of polaron dynamics in transition metal oxides / MIN Taewon, SONG Sehwan, PARK Sungkyun*, LEE Jaekwang* (부산대학교 물리학과)

B6.07* [16:24 - 16:36]

Developing interatomic potential for Si-O system via Neural

Network Machine Learning Method / JEONG Wonseok*, LEE Kyuhyun, HAN Seungwu, LEE Dongheon (Department of Materials Science and Engineering, Seoul National University)

B6.08* [16:36 - 16:48]

Theoretical Investigation of homogeneous van der Waals TMD p-n Junction / KANG Sungwoo*, LEE Joohee, HAN Seungwu (Department of Materials Science and Engineering, Seoul National University)

[B7-co] Focus: Graphene and Topological Materials

2017. 4. 19 Wednesday 15:00 – 16:48

Room: #107

좌장: 이 현 우 포항공과대학교
Chair: LEE Hyun Woo (POSTECH)

B7.01 [15:00 - 15:12]

Train of Majorana bound states in a topological Josephson junction under a magnetic field / CHOI Sang-Jun* (Korea Advanced Institute of Science and Technology)

B7.02 [15:12 - 15:24]

Fingerprint of Weyl semimetals in WTe_2 and $MoTe_2$ / SHIN Bong Gyu^{*1, 2}, YUN Seokjoon^{1, 3}, JEON Sunam^{1, 3}, SONG Bumsub^{1, 3}, SONG Young Jae^{2, 4}, LEE Young Hee^{*1, 2, 3} (¹Center for Integrated Nanostructure Physics (CINAP), Institute for Basic Science (IBS), Sungkyunkwan University, ²Department of Physics, Sungkyunkwan University, ³Department of Energy Science, Sungkyunkwan University, ⁴Sungkyunkwan Advanced Institute of Nanotechnology, Sungkyunkwan University)

B7.03* [15:24 - 15:36]

Broken sublattice symmetry states in Bernal stacked multilayer graphene / YOON Chiho¹, JANG Yunsu¹, JUNG Jeil^{*2}, MIN Hongki^{*1} (¹Department of Physics and Astronomy, Seoul National University, ²Department of Physics, University of Seoul)

B7.04* [15:36 - 15:48]

Observation of Strong Josephson Coupling in Planar Graphene Junctions / 박진호¹, 이재형¹, 이길호², TAKANE Yositate³, IMURA Ken-ichiro³, TANIGUCHI Takashi⁴, WATANABE Kenji⁴, 이후종^{*1} (¹Pohang University of Science and Technology, ²Harvard University, Cambridge, ³Hiroshima University, ⁴National Institute for Materials Science)

B7.05 [15:48 - 16:00]

Twisted Bilayer Graphene: topological Lifshitz transition and lift of layer degeneracy / 문필경^{*1, 2}, 김영욱³, HERLINGER Patrick³, KOSHINO Mikoto⁴, TANIGUCHI Takashi⁵, WATANABE Kenji⁵, SMET Jurgen H.³ (¹New

York University Shanghai & New York University, ²NYU-ECNU Institute of Physics at NYU Shanghai, ³Max-Planck-Institut für Festkörperforschung, ⁴Osaka University, ⁵National Institute for Materials Science)

B7.06 [16:00 - 16:12]

Mixed-valence transition and exotic Kondo effect on a quantum dot coupled to ferromagnetic and superconducting leads / 이민철^{*}, 최만수² (¹경희대학교 응용물리학과, ²고려대학교 물리학과)

B7.07 [16:12 - 16:24]

Relation between electron conductance and many-body entanglement of a Kondo system / YOO Gwangsu^{*}, SIM H.-S. (KAIST)

B7.08 [16:24 - 16:36]

Influence of Defects on Quantum Transport via Topological States in Quantum Hall Graphene Systems / MYOUNG Nojoon, PARK Hee Chul^{*} (Center for Theoretical Physics of Complex System, Institute for Basic Science)

B7.09 [16:36 - 16:48]

Microwave Photodetector in a Suspended Bilayer Graphene p-n Junction / JUNG Minkyung^{*} (DGIST)

[B8-co] Superconductivity I

2017. 4. 19 Wednesday 15:00 – 16:48

Room: #108

좌장: 심 지 훈 포항공과대학교

Chair: SHIM Ji Hoon (POSTECH)

B8.01(초) [15:00 - 15:24]

고온 초전도체: 변화된 상황과 새로운 해석 / 홍종배^{*} (서울대학교 물리천문학부)

B8.02* [15:24 - 15:36]

First-principles study on the enhanced electronic correlation in the potassium-doped surface layer of FeSe / 최영우, 최형준^{*} (연세대학교 물리학과)

B8.03 [15:36 - 15:48]

Unusual C4-symmetric orders in a hetero-structured iron-based superconductor / 옥종목¹, 백승호^{*2}, C. Hoch³, R. K. Kremer³, S. Y. Park⁴, 지성대^{1, 4}, B. Buchner², 박재훈^{1, 4, 5}, 심지훈⁶, 방윤규⁷, 문은국⁸, I. I. Mazin⁹, 김준성^{*1} (¹Department of Physics, Pohang University of Science and Technology, ²IFW Dresden, ³Max-Planck-Institut für Festkörperforschung, ⁴Max Planck POSTECH Center for Complex Phase Materials, Pohang University of Science and Technology,, ⁵Division of Advanced Materials Science, Pohang University

of Science and Technology, ⁶Department of Chemistry, Pohang University of Science and Technology, ⁷Department of Physics, Chonnam National University, ⁸Department of Physics, Korea Advanced Institute of Science and Technology, ⁹Naval Research Laboratory)

B

B8.04* [15:48 - 16:00]

Phase diagram and an emergent spin gapped phase in $\text{Na}_{1-x}\text{Li}_x\text{FeAs}$ / NAM Woohyun¹, BAEK Seung-Ho², LEE Bumsung¹, BÜCHNER Bernd², KIM Kee Hoon*¹ (¹Center for Novel States of Complex Materials Research, Department of Physics and Astronomy, Seoul National University, ²IFW Dresden)

B8.05* [16:00 - 16:12]

Critical magnetic field splitting of superconducting NbTi film by applied surface current / AHN Danho², JANG Wonjun^{1,2}, YEOM Dojun², LEE Jhinhwan*², SEMERTZDIS Yannis K¹ (¹Center for Axion and Precision Physics, Institute of Basic Science, ²Department of Physics, Korea Advanced Institute of Science and Technology)

B8.06* [16:12 - 16:24]

Spectroscopic evidence of superconductivity enhancement by interfacial phonons in an FeAs/oxide heterostructure / CHOI Seokhwan¹, JOHNSTON Steven², JANG Won-Jun^{1,3}, KOEPERNIK Klaus⁴, NAKATSUKASA Ken², OK Jong Mok⁵, LEE Hyun-Jung⁵, CHOI Hyun Woo¹, LEE Alex Taekyung⁶, AKBARI Alireza^{5,7}, SEMERTZDIS Yannis K.^{1,3}, BANG Yunkyu⁸, KIM Jun Sung⁵, LEE Jhinhwan*¹ (¹Korea Advanced Institute of Science and Technology, ²University of Tennessee, ³Institute of Basic Science, ⁴IFW Dresden, ⁵Pohang University of Science and Technology, ⁶Columbia University, ⁷Asia Pacific Center for Theoretical Physics, ⁸Chonnam National University)

B8.07* [16:24 - 16:36]

Cryogenic MEMS Gyroscope for Detection of Chiral Edge States in a Topological Superfluid / BYUN HeeSu¹, JEONG Jinhoon^{1,2}, KIM Kitak¹, KIM Sang Goon^{2,3}, SHIM Seung-Bo², SUH Junho², N CHOI Hyoungsoon*¹ (¹Department of Physics, KAIST, ²Korea Research Institute of Standards and Science, ³Department of Physics, Chungnam National University)

[B9] No session

E [B10-st] Focus: Statistical Mechanics of Nonequilibrium Fluctuations

2017. 4. 19 Wednesday 15:00 – 16:48

Room: #202

좌장: 권철안 명지대학교

Chair: KWON Chulan (Myongji Univ.)

B10,01(초) [15:00 - 16:00]

What is thermal equilibrium? An approach from macroscopic isolated quantum systems / TASAKI Hal* (Department of Physics, Gakushuin University)

B10,02(초) [16:00 - 16:24]

Information thermodynamics for a multi-feedback process with time delay / UM Jaegon^{*1}, KWON Chulan², PARK Hyunggyu³ (¹Seoul National University, ²Myongji University, ³Korea Institute for Advanced Study)

B10,03(초) [16:24 - 16:48]

Carnot efficiency is attainable in an irreversible process / LEE Jaesung, PARK Hyunggyu* (Korea Institute for Advanced Study)

[B11-bp] Theory & Methods in Biological Physics

2017. 4. 19 Wednesday 15:00 – 17:00

Room: #204

좌장: 전재형 포항공과대학교

Chair: JEON Jae-Hyung (POSTECH)

B11,01(초) [15:00 - 15:24]

세포내에서 상전이 현상 / 김용운* (카이스트 나노과학기술대학원)

B11,02(초) [15:24 - 15:48]

Translation-Rotation Decoupling in Glassy Systems / SUNG Bong June* (Department of Chemistry, Sogang University)

B11,03 [15:48 - 16:00]

Study on Protein Dynamics using X-ray Crystallography / KIM Chae Un* (Ulsan National Institute of Science and Technology)

B11,04 [16:00 - 16:12]

Food uptake of *C. elegans* is a diffusive process on a serotonin-dependent potential landscape / 이경석* (공주대학교 물리교육과)

B11,05 [16:12 - 16:24]

Super-resolution Imaging of Neuron in Mouse with Line-scan Confocal Microscope / PARK Sangjun¹, KANG Wooyoung¹, KIM Si-

Yong², KAANG Bong-Kiun², HOHNG Sungchul*¹ (¹Department of Physics and Astronomy, Seoul National University, ²School of Biological Sciences, Seoul National University)

B11.06 [16:24 - 16:36]

A novel single particle tracking platform for proteins acting on DNA / KIM Daehyung¹, JEONG Cherlhyun², CHO Il Hwan³, LEE Jong-Bong*¹ (¹Department of Physics, POSTECH, Pohang, Korea, ²Center for Theragnosis, Biomedical Research Institute, KIST, ³Department of Electronic Engineering, Myongji University)

B11.07 [16:36 - 16:48]

Optical diffraction tomography for quantitative 3-D imaging of lipid droplets inside hepatocytes / 김규현¹, 이서은^{1, 4}, 윤종희^{1, 5}, 허지한^{1, 6}, 최철희², 박용근*^{1, 3} (¹한국과학기술원 물리학과, ²한국과학기술원 바이오및뇌공학과, ³주) 토모큐브, ⁴Graduate School of Arts and Sciences, Columbia University, ⁵Department of Physics, University of Cambridge, ⁶서울대학교 의과대학)

B11.08 [16:48 - 17:00]

Identifying Activity change in EGFR signaling in PC9 cell using single cell Co-IP / 류지영¹, 김지혜², 손민주³, 김기범⁴, SUN Jiashu⁵, ZIANG Xingue⁵, 이원희*², 윤태영*³ (¹Proteina, ²Korea Advanced Institute of Science and Technology, ³서울대학교 생명과학부, ⁴Korea Brain Research Institute, ⁵National Center for Nanoscience and Technology)

E [B12-at] Pioneer: Nonlinear dissipative quantum Bose-Einstein condensate

2017. 4. 19 Wednesday 15:00 – 17:12

Room: #205

Chair: Ivan Savenko (IBS-PCS)

B12.01(초) [15:00 - 15:24]

Spontaneous currents in periodic 1D polariton structures / RUBO Y. G.*^{1, 2} (¹Center for Theoretical Physics of Complex Systems, Institute for Basic Science, ²Instituto de Energías Renovables, Universidad Nacional Autónoma de México)

B12.02(초) [15:24 - 15:48]

Ultrafast Charge migration driven by electron correlation / CEDERBAUM Lorenz S.* (University of Heidelberg)

B12.03(초) [15:48 - 16:12]

Phase-fluctuating condensates are fragmented: An experimental benchmark for self-consistent quantum many-body calculations / FISCHER Uwe* (Seoul National University)

B12,04(초) [16:12 - 16:36]

Spin-orbit coupling effect on the localized modes dynamics in discrete Bose-Einstein condensates / MALUCKOV Aleksandra* (P* group, Vinča Institute of Nuclear Sciences, University of Belgrade)

B12,05(초) [16:36 - 17:00]

Coherent and incoherent dynamics of weakly interacting cold atoms in driven optical lattices / KOLOVSKI Andrey* (L. V. Kirensky Institute of Physics)

B12,06 [17:00 - 17:12]

Experimental studies of many-body localization coupled to a finite thermal bath / 최재윤* (막스플랑크 양자광 연구소)

[B13-pa] Particle Physics TH: Lattice & QCD

2017. 4. 19 Wednesday 15:00 – 16:36

Room: #206

좌장: 이 원 종 서울대학교

Chair: LEE Weonjong (Seoul National Univ.)

B13,01 [15:00 - 15:12]

Current improvement for the calculation of semi-leptonic form factor on the lattice using Oktay-Kronfeld action / 임재훈¹, BAILEY Jon*¹, 이원종*, 장용철² (¹서울대학교 물리천문학부, ²Los Alamos National Laboratory)

B13,02 [15:12 - 15:24]

Lattice studies of Sp(4) gauge theory / LEE Jong-Wan*^{1,2}, BENNETT Ed³, HONG Deog Ki^{1,2}, LIN C.-J. David⁴, LUCINI Biagio³, PIAI Maurizio³, VADACCHINO Davide³ (¹Extreme Physics Institute, Pusan National University, ²Department of Physics, Pusan National University, ³Department of Physics, Swansea University, ⁴Institute of Physics, National Chiao-Tung University)

B13,03 [15:24 - 15:36]

Chirality Determination from Improved Staggered Fermions / JEONG Hwancheol, LEE Weonjong* (Department of Physics and Astronomy, Seoul National University)

B13,04 [15:36 - 15:48]

Pions and kaons in mixed-action staggered chiral perturbation theory / BAILEY Jon*, LEE Weonjong* (Seoul National University)

B13,05 [15:48 - 16:00]

Further study of stoponium on a lattice / KIM Seyong* (Department of Physics, Sejong University)

B13.06 [16:00 - 16:12]

Current status of the V_{cb} project using the Oktay-Kronfeld action / PARK Sungwoo¹, LEE Weonjong^{*1}, GUPTA Rajan^{*2}, JANG Yong-Chull^{*2}, LEEM Jaehoon¹ (¹Department of Physics and Astronomy, Seoul National University, ²Theoretical Division T-2, Los Alamos National Laboratory)

B13.07 [16:12 - 16:24]

Spin two particle in QCD contributions to muon g-2 / KIM Duhwan, LEE Jong-wan, HONG Deog Ki* (Department of Physics, Pusan National University)

B13.08 [16:24 - 16:36]

Fragmenting Process to an Observed Jet / KIM Chul* (School of Liberal Arts, Seoul National University of Science and Technology)

[B14-pa] Particle Physics EXP: Acc-based II

2017. 4. 19 Wednesday 15:00 – 16:48

Room: #209

좌장: 유 종 희 한국과학기술원

Chair: YOO Jonghee (KAIST)

B14.01 [15:00 - 15:12]

COMET muon conversion experiment in J-PARC / LEE MyeongJae^{*1}, SEMERTZIDIS Yannis K.^{1,2}, NATORI Hiroaki¹, YEO Beomki² (¹Center for Axion and Precision Physics research(CAPP), Institute for Basic Science, ²Department of Physics, Korea advanced institute of science and technology (KAIST))

B14.02* [15:12 - 15:24]

Feasibility study of muon to positron conversion in the COMET Phase-1 experiment / YEO Beomki^{*1,2}, LEE Myeongjae², NATORI Hiroaki², SEMERTZIDIS Yannis^{1,2} (¹Department of Physics, Korea Advanced Institute of Science and Technology (KAIST), ²Center for Axion and Precision Physics Research (CAPP) of Institute for Basic Science (IBS))

B14.03 [15:24 - 15:36]

DeeMe, an experiment searching for mu-e conversion using fast extracted proton beam at J-PARC / NATORI Hiroaki^{*1}, AOKI Masaharu², SEIYA Yoshihiro³, YAMAMOTO Kazuhiro³, NAKATSUGAWA Yohei⁴, NAGAO Daiki², TESHIMA Natsuki³, MORIMOTO Fumiaki³, FURUYA Yuko³ (¹IBS, ²Osaka University, ³Osaka City University, ⁴IHEP)

B14.04* [15:36 - 15:48]

J-PARC KOTO실험 샘플링 칼로리미터의 성능 평가 / 안정근^{*1}, 이종원^{*1}, 김은주^{*2}, 임계엽^{*3}, 김준이¹ (¹고려대학교 물리학과, ²전북대학교 물리교육학과, ³KEK)

B14.05* [15:48 - 16:00]

RF matching simulation to reduce the systematic errors of the

muon g-2 experiment at FNAL / KIM On^{*1,2}, SEMERTZIDIS Yannis K.^{1,2}, KIM Younglm² (¹Department of Phsics KAIST, ²Center for Axion and Precision Physics, Institute of Basic Science)

B14.06 [16:00 - 16:12]

Sterile Neutrino Search at JSNS² / 장지승¹, 박명렬², 최준호², 장한일³, 권은형⁴, 김수봉⁴, 서현관⁴, 강신규⁵, 유인태⁶, ROTT Carsten^{*6}, 천명기⁷, 김재률⁸, 문동호⁸, 임인택⁸, 주경광⁸, 김은주⁹, 김우영¹⁰ (¹광주과기원, ²동신대, ³서영대, ⁴서울대, ⁵서울과학기술대, ⁶성균관대, ⁷송실대, ⁸전남대, ⁹전북대, ¹⁰경북대)

B14.07 [16:12 - 16:24]

Status of the SHiP Experiment / 윤천실^{*}, 김성현¹, 박병도¹, 손종윤¹, 이강영¹, 최기영², 김영균³, 고재우⁴, 우종관⁴ (¹경상대, ²전남대, ³광주교대, ⁴제주대)

B14.08 [16:24 - 16:36]

Dark matter research cluster based on computational science / CHO Kihyeon^{*} (KISTI)

B14.09 [16:36 - 16:48]

Current Status of Deep Underground Neutrino Experiment (DUNE) / KIM Siyeon^{*} (Department of Physics, Chung-ang University)

[B15-or] The APCTP Authors Lecture

2017. 4. 19 Wednesday 15:00 – 16:48

Room: #301

좌장: 이 강 영 경상대

Chair: LEE Kang Young (Gyeongsang National Univ.)

B15.01 [15:00 - 15:45]

만화로 만드는 과학 / 조진호 (민족사관고, “게놈 익스프레스” 저자)

B15.02 [15:45 - 16:30]

쿤의 <과학혁명의 구조>를 넘어서 / 홍성욱 (서울대, “홍성욱의 STS, 과학을 경청하다” 저자)

[BB8-co] Superconductivity II

2017. 4. 19 Wednesday 17:00 – 17:48

Room: #108

좌장: 문 창 연 한국표준과학연구원

Chair: MOON Chang-Youn (KRISS)

BB8.01(초) [17:00 - 17:24]

Origin of suppression and reemergence of magnetism in LaFeAsO_{1-x}Hx by doping : A DFT+DMFT study / 문창연^{*}, 박효원², HAULE Kristjan³, 심지훈^{*4} (¹한국표준과학연구원 소재게놈측정센터, ²Department of Physics, University of Illinois at Chicago, ³Department of Physics, Rutgers

University, ⁴포항공과대학교 화학과)

BB8.02 [17:24 - 17:36]

Anisotropy of magnetization of NbTi film at in-plane and out of plane external magnetic field / 장원준^{1, 2}, 안단호², 염도준², 이진환^{*2}, SEMERTZIDIS Yannis K.^{1, 2} (¹Center for Axion and Precision Physics, Institute of Basic Science, ²Department of Physics, Korea Advanced Institute of Science and Technology)

B

BB8.03 [17:36 - 17:48]

Spin-polarized STM study on underdoped cuprate / 정진오¹, 김진우¹, 이영훈¹, 최석환¹, 송동준², 이진환^{*1} (¹한국과학기술원 물리학과, ²National Institute of Advanced Industrial Science and Technology, AIST)

SESSION C

2017 April 20(Thu) 9:00–10:48

[C1-nu] Nuclear Structure & Hadron Physics I

2017. 4. 20 Thursday 09:00 – 10:48

Room: #101

좌장 : 남 승 일 부경대학교

Chair: NAM Seung-il (Pukyong National Univ.)

C1.01 [09:00 - 09:12]

Letter of Intents (Lols) for KOBRA experiments / SATO Yoshiteru*, ISHIYAMA Hironobu (IBS/RISP)

C1.02 [09:12 - 09:24]

Correlation of the pairing and deformation. / HA Eunja*, CHEOUN Myung-Ki (Department of Physics, Soongsil University)

C1.03 [09:24 - 09:36]

A novel nuclear EDF for nuclear matter and finite nuclei / HYUN Chang Ho^{*1}, GIL Hana², PAPA-KONSTANTINO Panagiota³, OH Yongseok² (¹Department of Physics Education, Daegu University, ²Department of Physics, Kyungpook National University, ³RISP/IBS)

C1.04 [09:36 - 09:48]

Nuclear alpha decay using energy density functional approach / LIM Yeunhwan¹, OH Yongseok^{*2} (¹Texas A&M University, ²Kyungpook National University)

C1.05 [09:48 - 10:00]

A renormalization method for the three-boson system with a triboson field / ANDO Shung-Ichi* (School of Mechanical and ICT Convergence Engineering, Sunmoon University)

C1.06 [10:00 - 10:12]

Dimension 6 Gluon Operators and their effects on QCD sum rule for charmoniums / KIM HyungJoo, LEE Su Houn^g* (Department of Physics, Yonsei University)

C1.07 [10:12 - 10:24]

phi meson(1020) photoproduction within holographic approach / 류희영¹, 이창환^{*1}, ZAHED Ismail^{*2} (¹부산대학교 물리학과, ²Stony Brook University)

C1.08(초) [10:24 - 10:48]

Functional renormalisation group: Theory and some applications
/ KRIPPA Boris* (Nottingham Trent University)

[C2-Se] Low D nanomaterials

2017. 4. 20 Thursday 09:00 – 10:36

Room: #102

좌장: 유 재 수 경희대학교

Chair: YU Jae Su (Kyung Hee Univ.)

C

C2.01* [09:00 - 09:12]

Photoinduced change of the absorption spectrum in monolayer WSe₂ / 이성연, 정태영, 이기주* (충남대학교 물리학과)

C2.02* [09:12 - 09:24]

Highly performed tungsten disulfide floating-gate memory with multi-layer graphene embedded structure / CHU Dongil, KIM Eun Kyu* (Department of Physics, Hanyang University)

C2.03 [09:24 - 09:36]

Thermoelectric properties of Niobium doped compounds WS_{2-y}Se_y / CHO Sunglae*², YAKOVLEVA Galina*¹, NGUYEN Thi Huong², ROMANENKO Anatoly¹, LEDNEVA Alexandra¹, KUZNETSOV Vitalii¹, FEDOROV Vladimir¹ (¹Nikolaev institute of inorganic chemistry, ²University of Ulsan)

C2.04 [09:36 - 09:48]

Effect of Bismuth concentration on thermoelectric properties of GaTe single crystals / VU Thi Hoa, PHAM Anh Tuan, TRAN Thi Toan, CHO Sunglae* (Department of Physics, University of Ulsan)

C2.05* [09:48 - 10:00]

Development of P-N Diode using two dimensional nanomaterials / PARK Chulho¹, JEONG Mun Seok*^{1, 2} (¹Department of Energy Science, Sungkyunkwan University, ²Center for Integrated Nanostructure Physics (CINAP), Institute for Basic Science (IBS), Sungkyunkwan University)

C2.06* [10:00 - 10:12]

도핑된 그래핀을 투명전극으로 사용하여 제작한 Si 양자점 태양전지의 특성 연구 / 김종민, 신동희, 서상우, 이하승, 장찬욱, 김성, 최석호* (경희대학교 응용물리학과)

C2.07* [10:12 - 10:24]

Enhancement of Photocatalytic Properties of Mn-Adsorbed g-C₃N₄ / ZHANG Weibin, ZHANG Zhijun, KWON Sangwoo, YANG Woochul* (Department of Physics, Dongguk University)

C2.08* [10:24 - 10:36]

Efficient exfoliation of g-C₃N₄ and gas sensing properties of graphene/g-C₃N₄ nanocomposite / HANG Nguyen Thuy, ZHANG Shaolin, KIM Yoojung, CHOI Sooho, YANG Woorchol* (Department of Physics, Dongguk University)

[C3-ap] Focus: Two-Dimensional Nanomaterials

2017. 4. 20 Thursday 09:00 - 10:36

Room: #103

좌장: 박지용 아주대학교

Chair: PARK Ji-Yong (Ajou Univ.)

C3.01(초) [09:00 - 09:24]

Interface Engineering between 2D Transition Metal Dichalcogenides / HAHM Myung Gwan*¹, AJAYAN Pulickel M² (¹Department of Materials Science and Engineering, Inha University, ²Department of Materials Science and NanoEngineering, Rice University)

C3.02* [09:24 - 09:36]

Role of the growth temperature in MoS₂ growth by chemical vapor deposition / 김민우¹, 김자연², 조유현^{1, 2}, 박현선^{1, 2}, 권민기*¹ (조선대학교 광기술공학과, ²한국광기술원 LED융합연구센터)

C3.03 [09:36 - 09:48]

Electron doping by atomic hydrogen in two-dimensional transition-metal dichalcogenides / OH Sehoon, CHOI Hyoung Joon* (Department of Physics and IPAP, Yonsei University)

C3.04* [09:48 - 10:00]

Local surface potential and carrier transport of MoS₂ layers grown by chemical vapor deposition / YOON Woo Young, JIN Hye-Jin, JO William* (Department of Physics, Ewha Womans University)

C3.05* [10:00 - 10:12]

Polarization dependent work function and transport characteristics of MoS₂ layers on PbTiO₃ epitaxial heterostructures / JIN Hye-Jin, YOON Woo Young, JO William* (Department of Physics, Ewha Womans University)

C3.06(초) [10:12 - 10:36]

van der Waals heterostructure devices / 유우종* (성균관대학교 전자전기공학부)

[C4-ap] Properties of 2D Materials

2017. 4. 20 Thursday 09:00 – 10:48

Room: #104

좌장: 박 기 복 울산과학기술원

Chair: PARK Kibog (UNIST)

C4.01(초) [09:00 - 09:24]

Optical Gain in MoS₂ via Coupling with Nanostructured Substrate: Fabry-Perot Interference and Plasmonic Excitations / KIM Un Jeong^{*1}, JEONG Hye Yun², KIM Hyun^{2, 3}, HAN Gang Hee², JIN Youngjo^{2, 3}, LEE Si Young², ROH Young-Geun¹, PARK Yeonsang¹, HWANG Sung Woo¹, LEE Young Hee^{2, 3} (¹Device Lab. Samsung Advanced Institute of Technology, ²Center for Integrated Nanostructure Physics, Institute for Basic Science (IBS), Sungkyunkwan Univ., ³Department of Energy Science, Department of Physics, Sungkyunkwan University)

C4.02 [09:24 - 09:36]

Enhanced electrical characteristic of MoS₂ transferred on TMPS₃ / OH DaYea¹, LEE DukHyun¹, LEE SungMin², PARK JeGuen², PARK BaeHo^{*1} (¹Department of Physics, Konkuk University, ²Department of Physics&Astronomy, Seoul National University)

C4.03* [09:36 - 09:48]

Photocurrent Properties of Metal-Graphene-Metal Vertical Structure / SEO Miri, KWON Min Hee, SHIN Dong Hoon, LEE SangWook* (Department of Physics, Ewha Womans University)

C4.04* [09:48 - 10:00]

그래핀 위에 AFM 국소양극산화법을 이용하여 제작한 그래핀 산화물의 결합 형태에 따른 자성 특성 연구 / 이덕현, 오광택, 전지훈, 오다에, 이민주, 박배호* (건국대학교 물리학과)

C4.05* [10:00 - 10:12]

Excitation energy dependence of Raman spectra of few-layer WS₂ / YANG Jinho, LEE Jae-Ung, CHEONG Hyeonsik* (Department of Physics, Sogang University)

C4.06* [10:12 - 10:24]

Circularly polarized resonant Raman studies on few-layer WSe₂ / KIM Sanghun, LEE Jae-Ung, KIM Kangwon, CHEONG Hyeonsik* (서강대학교 물리학과)

C4.07 [10:24 - 10:36]

Pulsed-laser-deposition assisted monolayer MoSe₂-WSe₂ lateral heterostructure / ULLAH Farman¹, SIM Yumin², SEONG Maeng-Je², JANG Joon I³, RHIM Sonny H.¹, CHUNG Koo-Hyun⁴, KIM Yong Soo^{*1} (¹Department

of Physics and Energy Harvest-Storage Research Center (EHSRC), University of Ulsan, ²Department of Physics, Chung-Ang University, ³Department of Physics, Sogang University, ⁴School of Mechanical Engineering, University of Ulsan)

C4.08* [10:36 - 10:48]

The study on electrical properties of black phosphorus / 이상익¹, 윤찬수¹, 이지혜¹, 김연수¹, 백재윤², 김원동³, 박배호^{*1} (¹건국대학교 물리학과, ²포항가속기연구소, ³한국표준과학연구원)

[C5] No session

E [C6-co] Pioneer: Recent X-ray Science with X-ray Free Electron Laser

2017. 4. 20 Thursday 09:00 – 11:00

Room: #106

좌장: 황 찬 용 한국표준과학연구원

Chair: HWANG Chanyong (KRISS)

C6.01 [09:00 - 09:12]

Current Status of PAL-XFEL / LEE Ki-bong^{*1}, NOH Doyoung² (¹Pohang Accelerator Laboratory, POSTECH, ²Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

C6.02(초) [09:12 - 09:48]

Beating complexity through selectivity: excited state dynamics and multi-centre dynamics with X-rays / FÖHLISCH Alexander^{*1, 2} (¹Institute for Methods and Instrumentation in Synchrotron Radiation Research, Helmholtz-Zentrum Berlin, ²Institute of Physics and Astronomy, Potsdam University)

C6.03(초) [09:48 - 10:24]

Controlling spins in space and time / DÜRR Hermann A^{*} (SLAC National Accelerator Laboratory)

C6.04(초) [10:24 - 11:00]

Spectroscopy at FELs - from pump-probe to non-linear processes / BEYE Martin^{*} (DESY, FS-FLASH)

[C7-co] Focus: Quantum Coherence in Condensed Matter

2017. 4. 20 Thursday 09:00 – 10:48

Room: #107

좌장: 심 흥 선 한국과학기술원

Chair: SIM Heung Sun (KAIST)

C7.01(초) [09:00 - 09:36]

Experimental study on correlated Andreev pairs under magnetic field in graphene / LEE Gil-Ho* (Department of Physics, Harvard University)

C7.02(초) [09:36 - 10:12]

Gate-defined quasi-1D transport in a ballistic monolayer graphene with preserved valley symmetry / 김민수* (Department of Physics, Pohang University of Science and Technology)

C

C7.03(초) [10:12 - 10:48]

Andreev bound states crossing in a quantum dot coupled to normal and superconducting leads / LIM Jong Soo* (Department of Physics, Korea Institute for Advanced Study)

[C8-co] Magnetism I

2017. 4. 20 Thursday 09:00 - 11:00

Room: #108

좌장: 김 갑 진 한국과학기술원

Chair: KIM Kab-Jin (KAIST)

C8.01* [09:00 - 09:12]

Micromagnetic simulation study of 3D granular Nd-Fe-B permanent magnets using finite element method / LEE Jae-Hyeok, CHOE Jinhyeok, HWANG Shinwon, KIM Sang-Koog* (Nanospinics Laboratory, Research Institute of Advanced Materials, Department of Materials Science and Engineering, Seoul National University)

C8.02* [09:12 - 09:24]

Correlation between thermoelectric and magnetic properties in Mn-doped Mg₂Si / KIM Chungman^{1,2}, KIM Soohyun³, HONG Yang-Ki⁴, OH Min-Wook⁵, JUNG Myung-Hwa*¹ (¹Department of Physics, Sogang University, ²Research Institute for Basic Science, Sogang University, ³Center for Electronic Materials, Korea Institute of Science and Technology, ⁴Department of Electrical and Computer Engineering, University of Alabama, ⁵Department of Advanced Materials Engineering, Hanbat National University)

C8.03* [09:24 - 09:36]

Intrinsic spin-wave modes and domain-wall motions in soft magnetic nanotubes driven by resonant rotating magnetic fields / YANG Jaehak, KIM Junhoe, KIM Bosung, CHO Young-Jun, LEE Jae-Hyeok, KIM Sang-Koog* (Nanospinics Laboratory, Research Institute of Advanced Materials, Department of Materials Science and Engineering, Seoul National University)

C8.04* [09:36 - 09:48]

Interface properties and Spin Hall Magnetoresistance in Pt/Fe₃O₄/MgO/Ta Multilayered Structures / PHAM Thi Kim Hang¹, LEE

Nyun Jong¹, KANG Ki Hoon², PARK Eunsun³, MICHEL Anny⁴, KIM Tae Hee^{*1}
(¹Department of Physics, Ewha Womans University, ²Department of Materials Science and Engineering, Hanyang University, ³KU-KIST Graduate School of Converging Science and Technology, Korea University, ⁴Département de Physique et Mécanique des Matériaux, CNRS-Université de Poitiers-ENSMA)

C8.05* [09:48 - 10:00]

Chirality-induced antisymmetry in domain-wall speed / KIM Dae-Yun¹, PARK Min-Ho¹, PARK Yong-Keun^{1,2}, KIM Joo-Sung¹, NAM Yune-Seok¹, KIM Duck-Ho¹, JE Soong-Geun¹, MIN Byoung-Chul², CHOE Sug-Bong^{*1}
(¹Department of Physics & Astronomy, Seoul National University, ²Center for spintronics, Korea Institute of Science and Technology)

C8.06* [10:00 - 10:12]

Beating modes of a magnetic vortex in thick circular ferromagnetic nanodisks / 한희성, 이수석, 정대한, 김남규, 이기석* (울산과학기술원 신소재공학부)

C8.07* [10:12 - 10:24]

Restored topological surface state by post-processing in gadolinium substituted topological insulator Bi₂Te₃ / KIM Jinsu¹, SHIN Eun-Ha², SHARMA Manoj K.³, IHM Kyuwook³, OTGONBAYAR Dugerjav⁴, HWANG Chanyong⁴, LEE Hwangho⁵, PARK Jae-hoon⁵, KIM Miyoung², KIM Hanchul², JUNG Myung-Hwa^{*1} (¹Department of Physics, Sogang University, ²Department of Physics, Sookmyung University, ³Pohang Accelerator Laboratory, ⁴Center for Advanced Instrumentation, Korea Research Institute of Standards and Science, ⁵Department of Physics, POSTECH)

C8.08* [10:24 - 10:36]

Dynamics of magnetic vortices in soft magnetic spherical shells / LEE Jae-Hyeok, KIM Junhoe, YANG Jaehak, SIM Jaegun, KIM Sang-Koog* (Nanospinics Laboratory, Research Institute of Advanced Materials, Department of Materials Science and Engineering, Seoul National University)

C8.09* [10:36 - 10:48]

Exchange bias effect of perpendicular magnetic anisotropic Mn₃Ga/(Co, Mn)₃Ga bilayer system / YOO Woosuk^{1,2}, JANG Yunsun¹, BANG Hyun-Woo¹, KIM Chungmann^{1,2}, JUNG Myung-Hwa^{*1} (¹Department of Physics, Sogang University, ²Research Institute for Basic Science, Sogang University)

C8.10* [10:48 - 11:00]

Collective gyration modes in 1d periodic skyrmion arrays in thin-film nanostrips / KIM Junhoe, YANG Jaehak, CHO Young-Jun, KIM Bosung, KIM Sang-Koog* (Nanospinics Laboratory, Research Institute of Advanced Materials, Department of Materials Science and Engineering, Seoul National University)

[C9-op] Nanophotonics

2017. 4. 20 Thursday 09:00 – 10:36

Room: #201

좌장: 강명수 한국과학기술원
Chair: KANG Myeong Soo(KAIST)

C9.01(초) [09:00 - 09:24]

Direct measurement of far-field light scattering of single metal nano-rods / SEO Min-Kyo* (Department of Physics, KAIST)

C9.02* [09:24 - 09:36]

광자결정 합금계에서의 광자 띠구조 상태에 대한 연구 / 이명재, 전현수* (서울대학교 물리천문학부)

C9.03 [09:36 - 09:48]

광밴드갭 광섬유와 미세 유체를 이용한 장거리 가변형 광 지연 선로 구현 / 이민환, 황인각* (전남대학교 물리학과)

C9.04 [09:48 - 10:00]

Vectorial Platform for Manipulating Polarization Mode Train Realized with Jones Vectors in Mathematica / YUN Hee-Joong* (Mokwon University)

C9.05 [10:00 - 10:12]

Analysis of SiO₂ Particle's Size Using Scanning Dynamic Light Scattering / 김현기, 이재란, 김석원* (울산대학교 물리학과)

C9.06* [10:12 - 10:24]

Surface plasmon enhanced transparent electrode for high efficient light emitting diode / 조유현^{1, 2}, 김자연², 김민우¹, 박현선^{1, 2}, 권민기*¹ (¹조선대학교 광기술공학과, ²한국광기술원 LED융합연구센터)

C9.07 [10:24 - 10:36]

Source of protons in a proton beam produced with laser / KIM Byungwhan* (Department of Electrical Engineering, Sejong University)

[C10-st] Phase Transition/Nonequilibrium

2017. 4. 20 Thursday 09:00 – 10:24

Room: #202

좌장: 홍현숙 전북대학교
Chair: HONG Hyunsuk (Chonbuk National Univ.)

C10.01 [09:00 - 09:12]

Finite-size scaling of the slow-bond problem of TASEP / HA Meesoon*¹, SOH Hyungjoon², BAEK Yongjoo³, JEONG Hawoong²

(¹Department of Physics Education, Chosun University, ²Department of Physics, KAIST, ³Department of Physics, Technion)

C10.02* [09:12 - 09:24]

Phase transition in nonequilibrium Ising model on fluctuating random q-neighbor networks / 박종민¹, 노재동*^{1, 2} (¹서울시립대학교 물리학과, ²고등과학원 물리학부)

C10.03 [09:24 - 09:36]

Phase detection with machine learning: a case study of the first-order transition in repulsive Hubbard model / 김동규, 김동희* (광주과학기술원 물리광학과)

C10.04 [09:36 - 09:48]

Free energy of a chemotactic model with nonlinear diffusion / BAEK Seung Ki*¹, KIM Beom Jun² (¹Department of Physics, Pukyong National University, ²Department of Physics, Sungkyunkwan University)

C10.05 [09:48 - 10:00]

Diffusion with resetting on finite interval / DURANG Xavier*¹, LEE Sungmin², JEON Jae-Hyung³, LEE Sang Hoon¹ (¹KIAS, School of Physics, ²Sungkyunkwan University, ³POSTECH)

C10.06* [10:00 - 10:12]

A microscopic view of the entropy production in stochastic thermodynamics / CHUN Hyun-Myung¹, NOH Jae Dong*^{1, 2} (¹Department of Physics, University of Seoul, ²School of Physics, Korea Institute for Advanced Study)

C10.07 [10:12 - 10:24]

Initial-state dependence of out-of-time-ordered correlator in many-body localization / 이주희, 김동희* (광주과학기술원 물리광학과)

[C11-as] Astrophysics/theory

2017. 4. 20 Thursday 09:00 – 10:48

Room: #204

좌장: 조 인 용 서울과학기술대학교

Chair: CHO In Yong (Seoul National Univ. of Science and Technology)

C11.01 [09:00 - 09:12]

Bound on the reheating temperature with dark matter / CHOI Ki-Young* (Physics Department, Chonnam National University)

C11.02 [09:12 - 09:24]

Constraining dark photon model with dark matter from CMB spectral distortions / CHOI Ki-young², KADOTA Kenji³, PARK Inwoo*¹

(¹Department of Physics KAIST, ²Institute for Universe and Elementary Particles and Department of Physics, Chonnam National University, ³Center for Theoretical Physics of the Universe Institute for Basic Science (IBS))

C11.03* [09:24 - 09:36]

CMB Spectral Distortion Constraints on Thermal Inflation

/ 조기현^{*1}, 홍성욱², 조희승³ (¹한국과학기술원 물리학과, ²한국천문연구원, ³대구경북과학기술원 융합학부)

C11.04* [09:36 - 09:48]

Late-time Accelerating Universe in Scalar Tensor Theory with Nonminimal Derivative Coupling

/ SIM Jonghyun*, LEE Teahoon* (Department of Physics, Soongsil University)

C11.05* [09:48 - 10:00]

On the thermodynamic origin of the initial radiation energy density in warm inflation

/ 김용완, 김원태* (서강대학교 물리학과)

C11.06 [10:00 - 10:12]

Cosmic Inflation from Yang-Mills Instantons

/ KIM Kyung Kiu¹, KOH Seoktae^{*2}, YANG Hyun Seok³ (¹Department of Physics, Sejong University, ²Department of Physics Education, Jeju National University, ³Center for Quantum Spacetime, Sogang University)

C11.07 [10:12 - 10:24]

Cosmological Implications of Fubini Type Instanton

/ LEE Bum-Hoon^{1,2}, LEE Wonwoo^{*1}, RO Daeho³ (¹Center for Quantum Spacetime, Sogang University, ²Department of Physics, Sogang University, ³Asia Pacific Center for Theoretical Physics)

C11.08 [10:24 - 10:36]

Interaction Energy Released in Collision of Kerr-(anti)-de Sitter Black Holes

/ GWAK Bogeun* (Department of Physics and Astronomy, Sejong University)

C11.09 [10:36 - 10:48]

Black holes with an anisotropic fluid

/ 조인용¹, 김형찬^{*2} (¹서울과학기술대학교, ²한국교통대학교)

[C12-at] Quantum Optics and Quantum Information

2017. 4. 20 Thursday 09:00 – 10:36

Room: #205

좌장: 이 상 경 국방과학연구소

Chair: LEE Sangkyung (Agency for Defense Development)

C12.01* [09:00 - 09:12]

Irreducibility of coherent states / JAE Jeongwoo, SEOL Kang Hee, LEE Kwang-Geol*, LEE Jinhyoung* (Department of Physics, Hanyang University)

C12.02 [09:12 - 09:24]

Dipole-coupled simulation of a bilayered two-dimensional (2D) lattice system of dense and cold atoms / YOO Sung Mi* (Department of Liberal Arts, Hongik University)

C12.03 [09:24 - 09:36]

Generation of the correlated NIR photon pairs in optical nano-fibers / KIM Jin-Hun, IHN Yong Sup, HA Changwoo, SHIN Heedeuk, KIM Yoon-Ho* (Department of Physics, POSTECH)

C12.04* [09:36 - 09:48]

Comparison between quantum state tomography and quantum error bar analysis / HONG Kang-Hee, KIM Yosep, KIM Yoon-Ho* (Department of Physics, POSTECH)

C12.05 [09:48 - 10:00]

Quantum Machine Learning Speedup with Classical Training Data / 이중성¹, 방정호^{1, 2}, 홍성혁¹, 이창협³, 설강희¹, 이진형^{*}, 이광걸^{*} (¹Department of Physics, Hanyang University, ²School of Computational Sciences, Korea Institute for Advanced Study, ³Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology)

C12.06 [10:00 - 10:12]

Coherence Number and Generalized Coherence Concurrence / CHIN Seungbeom* (College of Information and Communication, Sungkyunkwan University)

C12.07 [10:12 - 10:24]

Practical quantum metrology in lossy optical interferometry / 이수용* (고등과학원 계산과학부)

C12.08* [10:24 - 10:36]

Complete Measurement of Biphoton Temporal Wavefunction via Stimulated Emission / PARK Kwang-Kyoon^{*}¹, KIM Jin-Hun¹, ZHAO Tian-Ming¹, CHO Young-Wook², KIM Yoon-Ho¹ (¹Department of Physics, Pohang University of Science and Technology (POSTECH), ²Center for Quantum Information, Korea Institute of Science and Technology (KIST))

E [C13-pa] Pioneer: New horizon of Field theories (장론의 새 지평) I

2017. 4. 20 Thursday 09:00 – 10:48

Room: #206

좌장: 고 병 원 고등과학원

Chair: KO Pyungwon (KIAS)

C13.01(초) [09:00 - 09:36]

Gauge theories and Chaos / HASHIMOTO Koji* (Physics department of Osaka University)

C13.02(초) [09:36 - 10:12]

New horizons for non-Fermi liquids / IIZUKA Norihiro* (Department of physics, Osaka University)

C13.03(초) [10:12 - 10:48]

On large N limit of SUSY gauge theories / TERASHIMA Seiji* (Kyto University)

[C14-pa] Particle Physics EXP: Acc-based III (LHC)

2017. 4. 20 Thursday 09:00 – 10:36

Room: #209

좌장: 이 세 욱 경북대학교

Chair: LEE Sehwook (Kyungpook National Univ.)

C14.01 [09:00 - 09:12]

Search for new heavy resonances in the dilepton final state using proton-proton collisions at $\sqrt{s} = 13$ TeV with the CMS detector / RADBURN-SMITH Benjamin*, YOO Hwidong* (Seoul National University)

C14.02 [09:12 - 09:24]

Search for new physics with tau lepton pairs in pp collisions at $\sqrt{s} = 13$ TeV / 오영도*, 김동희, 김민석 (경북대학교 물리학과)

C14.03 [09:24 - 09:36]

Search for heavy gauge W' bosons in events with a lepton and large missing transverse momentum at 13 TeV using the CMS detector / LEE Jeongeun*, KIM Donghee*, OH Youngdo*, YANG Yuchul* (Department of Physics, Kyungpook National University)

C14.04* [09:36 - 09:48]

Search for heavy Majorana neutrino in trilepton channel at 13 TeV using the CMS detector / 전시현*, 김재성, 오성빈, 이한열, John Almond, 유금봉, 서선희, 양운기 (서울대학교 물리학과)

C14.05* [09:48 - 10:00]

Search for heavy neutrinos in the di-lepton events at 13 TeV using the CMS detector / 이한열*, 오성빈*, 김재성*, 전시현*, 서선희*, 유금봉*, John Almond*, 양운기* (서울대학교 물리천문학부)

C14.06 [10:00 - 10:12]

Searches for heavy Majorana neutrinos at the CMS / John Almond*, 오성빈*, 이한열*, 김재성*, 전시현*, 서선희*, 유금봉*, 양운기* (서울대학교 물리천문학부)

C14.07 [10:12 - 10:24]

Search for New Physics with the Vector Boson Fusion Topology at CMS / 김민석*, 김동희, 오영도 (Department of Physics, Kyungpook National University)

C14.08* [10:24 - 10:36]

Search for $H \rightarrow AW$ / $Z'W$ in 13TeV data / BHYUN Jihwan*, YU Geumbong, ALMOND John Lesley, YANG Un-ki* (Department of Physics and Astronomy, Seoul National University)

SESSION D

2017 April 20(Thu) 11:00–12:48

[D1-nu] Nuclear Astrophysics & Hadron Physics II

2017. 4. 20 Thursday 11:00 – 12:48

Room: #101

좌장 : 한 인 식 이화여자대학교

Chair: HAHN Insik (Ewha Womans Univ.)

D

D1.01(초) [11:00 - 11:24]

Dissociation of proton-rich nuclei at SAMURAI as a method to study the most critical (p, γ) reaction rates in stellar nucleosynthesis / VALERII Panin* (RIKEN Nishina Center)

D1.02* [11:24 - 11:36]

The Production of ^{98}Tc through the neutrino process in supernova explosion / 고혜민¹, 천명기*, 김경식*² (송실대학교 물리학과, ²항공대학교 교양학과)

D1.03 [11:36 - 11:48]

Strangeness in Neutron Star Cooling / LEE Chang-Hwan* (Department of Physics, Pusan National University)

D1.04* [11:48 - 12:00]

THE ASTROPHYSICAL $^{22}\text{Na}(p, \gamma)^{23}\text{Mg}$ REACTION RATE / KWAG M. S.¹, CHAE K. Y.*¹, AHN S.², BARDAYAN D. W.³, CHIPPS K. A.⁴, CIZEWSKI J. A.⁵, HOWARD M. E.⁵, KOZUB R. L.⁶, MANNING B.⁵, MATOS M.⁷, O'MALLEY P. D.⁵, PAIN S. D.⁸, PETERS W. A.⁹, PITTMAN S. T.⁸, RATKIEWICZ A.⁵, SMITH M. S.⁸, STRAUSS S.⁵ (¹Department of Physics, Sungkyunkwan University, ²Department of Physics and Astronomy, University of Tennessee, ³Department of Physics, University of Notre Dame, ⁴Department of Physics, Colorado School of Mines, ⁵Department of Physics and Astronomy, Rutgers University, ⁶Department of Physics, Tennessee Technological University, ⁷Department of Physics and Astronomy, Louisiana State University, ⁸Physics Division, Oak Ridge National Laboratory, ⁹Oak Ridge Associated Universities)

D1.05* [12:00 - 12:12]

Mass splittings of heavy baryons within the SU(3) chiral quark-soliton model / KIM June-Young¹, YANG Ghil-Seok², KIM Hyun-Chul*¹ (¹Department of physics, Inha University, ²Department of physics, Soongsil University)

D1.06 [12:12 - 12:24]

f1 meson in nuclear medium / LEE Su Houn* (Department of Physics, Yonsei University)

D1,07 [12:24 - 12:36]

Quasi-distribution amplitudes for pion and kaon via the nonlocal chiral-quark model / NAM Seung-il*¹, SON Hyeon-Dong² (¹Pukyong National University, ²Ruhr-Universitat Bochum)

D1,08 [12:36 - 12:48]

Heptaquarks with two heavy antiquarks in a simple chromomagnetic model / PARK Aaron, PARK Woosung, LEE Su Houn* (Yonsei University)

[D2-se] See [T2-se] for 'Tutorial: Energy harvesting technology'

E [D3-ap] Pioneer: The 3rd Korea-Japan joint symposium on organic electronics I

2017. 4. 20 Thursday 11:36 – 12:48

Room: #103

좌장: 임 은 주 단국대학교

Chair: LIM EunJu (Dankook Univ.)

D3,01(초) [11:36 - 12:00]

Displacement current measurement for analyzing transient behaviors of light-emitting electrochemical cells / NOGUCHI Yutaka* (School of Science and Technology, Meiji University)

D3,02(초) [12:00 - 12:24]

Polymer Film Deposition and Interface Control via Reactive Self-Assembled Monolayers / USUI Hiroaki* (Institute of Engineering, Tokyo University of Agriculture and Technology)

D3,03(초) [12:24 - 12:48]

Interface Phenomena between Hole-Transporting Diamine Derivative and Fluorinated Silane Coupling Material on Indium-Tin-Oxide / MORI Tatsuo* (Faculty of Engineering, Aichi Institute of Technology)

E [D4-ap] Pioneer: Epi. complex oxide thin films I

2017. 4. 20 Thursday 11:00 – 12:12

Room: #104

좌장: 정 창 욱 한국외국어대학교

Chair: JUNG Chang Uk (Hankuk Univ. of Foreign Studies)

D4,01 [11:00 - 11:12]

Improved ReRAM switching performance by using Au-tip as top

electrode for epitaxial brownmillerite oxide thin film having fairly rough surface / RAVEENDRA Nallagatla Venkata, JUNG Chang Uk*
(Department of Physics and Oxide Research Centre, Hankuk University of Foreign Studies)

D4.02(초) [11:12 - 11:36]

Vertically aligned oxide heterointerfaces / LEE Shinbuhm*
(Department of Emerging Materials Science, Daegu Gyeongbuk Institute of Science and Technology)

D4.03(초) [11:36 - 12:00]

Oxygen evolution reaction in Ruthenate epitaxial thin films / CHOI Woo Seok* (Department of Physics, Sungkyunkwan University)

D4.04* [12:00 - 12:12]

Multiferroicity controlled by atomically designed platform layer / LEE Sung Su¹, KIM Young-Min², LEE Hyun-Jae³, SEO Ok Kyun¹, JEONG Hu Young⁴, HE Qian⁵, BORISEVICH Albina Y.⁵, KANG Bo Youn¹, KWON O Woong⁶, KANG Seung Hun⁶, KOO Tae Yeong⁷, RHYEE Jong-Soo⁸, KIM Yun Seok⁶, NOH Do Young⁹, CHO Beong Ki¹, LEE Jun Hee³, JO Ji Young*¹ (¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology, ²Department of Energy Science, Sungkyunkwan University, ³School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology, ⁴Central Research Facilities, Ulsan National Institute of Science and Technology, ⁵Materials Science and Technology Division, Oak Ridge National Laboratory, ⁶School of Advanced Materials Science and Engineering, Sungkyunkwan University, ⁷Pohang Accelerator Laboratory, ⁸Department of Applied Physics and Institute of Natural Sciences, Kyung Hee University, ⁹Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

[D5-pl] Accelerator & Beam physics and applications

2017. 4. 20 Thursday 11:00 – 12:36

Room: #105

좌장: 정 모 세 울산과학기술원

Chair: CHUNG Moses (UNIST)

D5.01 [11:00 - 11:12]

중이온가속기 빔진단계 현황 (Current Status of RISP Beam Diagnostic System) / 김기동*, 우형주, 정연세, 권장원, 김찬미 (기초과학연구원 중이온가속기건설구축사업단)

D5.02(초) [11:12 - 11:36]

Detuning effects of the fourth order resonance in high intensity linear accelerators / JEON Dong-O* (Institute for Basic Science)

D5.03 [11:36 - 11:48]

Temperature Measurement Techniques for RAON Cryomodule /
KIM Heetae*, JUNG Yoochul, KIM Youngkwon, LEE Min Ki, JO Yong Woo,
CHOI Jong Wan, PAENG Won-Gi, JUNG Hoechun, KWON Young Kwan (Rare
Isotope Science Project, Institute for Basic Science)

D5.04* [11:48 - 12:00]

RAON의 SCL3 button type 빔 위치 측정장치의 설계 및 제작 / 권장원^{1, 2},
우형주^{*2}, 김기동², 정연세², 김찬미^{1, 2}, 김은산¹ (¹고려대학교 가속기과학과,
²기초과학연구원 중이온가속기사업단)

D5.05(초) [12:00 - 12:24]

Three-dimensional Proton Beam Profiles at KOMAC / LEE Jongwon*,
JUNG Useung, KIM Shinhyung, JO Jamin, KIM Youngjun, CHOI Wonji, AHN
Jungkeun (Department of Physics, Korea University)

D5.06 [12:24 - 12:36]

**Development of a quantum electrodynamics module in PIC code
for laser plasma simulations /** PAE Ki Hong^{*1, 2}, KIM Chul Min^{1, 2}, NAM
Chang Hee^{1, 3} (¹Center for Relativistic Laser Science, IBS, ²Advanced Photonics
Research Institute, GIST, ³Department of Physics and Photon Science, GIST)

**E [D6-co] Pioneer: Recent X-ray Science with X-ray Free
Electron Laser**

2017. 4. 20 Thursday 11:00 – 13:00

Room: #106

좌장: 송창용 포항공과대학교

Chair: SONG Changyong (POSTECH)

D6.01(초) [11:00 - 11:36]

**Direct observation of bond formation by femtosecond X-ray
solution scattering /** NOZAWA Shunsuke^{*1}, KIM Kyung Hwan², KIM
Jong Goo², SATO Tokushi¹, OANG Key Young², KIM Tae Wu², KI Hosung², JO
Junbeom², PARK Sungjun², SONG Changyong³, SATO Takahiro³, OGAWA
Kanade³, TOGASHI Tadashi⁴, TONO Kensuke⁴, YABASHI Makina³, ISHIKAWA
Tetsuya³, KIM Joonghan⁵, RYOO Ryong², KIM Jeongho⁶, IHEE Hyotcherl²,
ADACHI Shin-ichi¹ (¹Institute of Materials Structure Science, High Energy
Accelerator Research Organization, Japan, ²Center for Nanomaterials and
Chemical Reactions, Institute for Basic Science; Dept. Chemistry, KAIST, ³RIKEN
SPring-8 Center, Japan, ⁴Japan Synchrotron Radiation Research Institute, Japan,
⁵Department of Chemistry, The Catholic University of Korea, ⁶Department of
Chemistry, Inha University)

D6.02(초) [11:36 - 12:12]

**Capturing ultrafast nanoparticle dynamics using x-ray free-
electron lasers /** FLÜCKIGER Leonie* (ARC Centre of Excellence in Advanced

D6.03(초) [12:12 - 12:48]

The Linac Coherent Light Source : Hard x-ray status and development / SONG Sanghoon* (Hard X-ray Department, Linac Coherent Light Source, SLAC National Accelerator Laboratory)

D6.04 [12:48 - 13:00]

Systematic investigation of interference effect in single-shot imaging / NAM Daewoong, JUNG Chuho, SONG Changyong* (Physics Department, Pohang University of Science and Technology)

D

[D7-co] Nano to Mesoscopic Investigations of Surface and Interface

2017. 4. 20 Thursday 11:00 – 12:36

Room: #107

좌장: 채 중 석 기초과학연구원

Chair: CHAE Jungseok (Institute for Basic Science)

D7.01 [11:00 - 11:12]

X-ray Absorption Spectroscopy Study on Structural Evaluation at SnS_2/TiN and SnO_2/TiN Interfaces / MOHAMED Ahmed Yousef^{1,2}, LEE Minji¹, KIM Dae Hyun³, PARK Tae Joo^{3,4}, CHO Deok-Yong*¹ (¹IPIT & Department of Physics, Chonbuk National University, ²Electronics & Nano Devices Lab., Department of Physics, Faculty of Science, South Valley University, ³Department of Advanced Materials Engineering, Hanyang University, ⁴Department of Materials Science & Chemical Engineering, Hanyang University)

D7.02 [11:12 - 11:24]

Nanoscale chemical imaging in photo-induced force microscopy / JAHNG Junghoon*, LEE Eun Seong (Korea Research Institute of Standards and Science)

D7.03 [11:24 - 11:36]

Conducting interface states at $\text{LaInO}_3/\text{BaSnO}_3$ polar interface controlled by Fermi level / KIM Youngmo, CHAR Kookrin* (Department of Physics & Astronomy, Seoul National University)

D7.04 [11:36 - 11:48]

Structural transitions in ultrathin organometallic molecule-based solar thermal energy storage revealed by cryogenic STM imaging / CHO Jongweon* (Department of Physics, Myongji University)

D7.05 [11:48 - 12:00]

Study of Bismuth growth on the MoS_2 surface / PARK Youngsin¹, LI Nannan¹, LEE Geunsik*¹, KIM Ki-Jeong², HAN Sang Wook*³, HONG Soon Cheol³ (¹Ulsan National Institute of Science and Technology, ²Pohang Accelerator

D7.06 [12:00 - 12:12]

Droplet evaporation with complex evaporation modes / 황인규, 김진영, 원병목* (성균관대학교 신소재공학부 및 나노과학기술학과)

D7.07 [12:12 - 12:24]

Stacking-sequence-independent band structure and shear exfoliation of two-dimensional electride materials / YI Seho¹, CHOI Jin-Ho^{1, 2}, LEE Kimoon³, KIM Sung Wng⁴, PARK Chul Hong⁵, CHO Jun-Hyung*¹ (¹Department of Physics and Research Institute for Natural Sciences, Hanyang University, ²Research Institute of Mechanical Technology, Pusan National University, ³Department of Physics, Kunsan National University, ⁴Department of Energy Science, Sungkyunkwan University, ⁵Department of Physics, Education Pusan National University)

D7.08 [12:24 - 12:36]

Vibrational properties of structural phase change in Ge-Sb-Te compounds via first-principles calculations / 송영선* (포항공과대학교)

E [D8-co] Pioneer: Topological Semiconductors / Magnetism II

2017. 4. 20 Thursday 11:00 – 12:36

Room: #108

좌장: 정 명 화 서강대학교

Chair: JUNG Myung Hwa (Sogang Univ.)

D8.01(초) [11:00 - 11:24]

Antiferromagnetic Ordering in Kondo Semiconductors $\text{CeT}_2\text{Al}_{10}$ (T=Ru and Os) / TAKABATAKE Toshiro* (Graduate School of Advanced Sciences of Matter, Hiroshima University, Higashi-Hiroshima)

D8.02(초) [11:24 - 11:48]

Unconventional topological phase transition in two-dimensional noncentrosymmetric systems / YANG Bohm Jung* (Department of Physics and Astronomy, Seoul National University)

D8.03(초) [11:48 - 12:12]

Inelastic neutron scattering and μSR investigations of an anisotropic hybridization gap in the Kondo insulators: $\text{CeT}_2\text{Al}_{10}$ (T=Fe, Ru and Os) / ADROJA D. T.* (ISIS Facility, Rutherford Appleton Laboratory)

D8.04(초) [12:12 - 12:36]

Dilute magnetic topological semiconductors / KIM Kyoung-Min¹, JHO Yong-Soo², KIM Ki-Seok*¹ (¹Department of Physics, POSTECH, ²Department of Physics, Yonsei Univ.)

[D9-op] Optical design and metrology

2017. 4. 20 Thursday 11:00 – 12:24

Room: #201

좌장: 박 두 재 한림대학교

Chair: PARK Doo Jae (Hallym Univ.)

D9.01(초) [11:00 - 11:24]

모드 간 잠금을 이용한 광 빛의 상호 동기화 기법(Inter-comb Synchronization by Mode-to-mode locking) / 천병재^{*1, 2}, 김영진², 김승우³ (¹한국원자력연구원 양자광학연구부, ²School of Mechanical and Aerospace Engineering, Nanyang Technological University(NTU), Singapore, ³카이스트 기계공학과)

D9.02* [11:24 - 11:36]

In-line Saturable Absorber Based on Topological Insulator Deposited on an Optical Microfiber for Mode-locked Fiber Laser / TRAN Ngoc Tuyen, HAN Young-Geun* (Department of Physics, Hanyang University)

D9.03* [11:36 - 11:48]

Phase optical time domain reflectometer based on master oscillator power amplification / LEE Seung-Min, HAN Young-Geun* (Department of Physics, Hanyang University)

D9.04* [11:48 - 12:00]

균일한 조도분포를 가진 라인 빔 생성을 위한 3단 폴딩미러 디자인 Design of three-sectioned folding mirror for line beam generating with uniform intensity distribution / 권오형¹, 양선석¹, 김재순^{*1}, 백승국², 이정주³, 최원식⁴ (¹명지대학교 물리학과, ²고려대학교 안암병원, ³(주) 리브스메드, ⁴고려대학교 물리학과)

D9.05* [12:00 - 12:12]

Hi-NA 반도체 결함검출용 조명계 설계 Hi-NA illumination system design for the inspection defect on semiconductor wafer / 양선석¹, 한우준¹, 이종문², 추승용², 김재순^{*1} (¹명지대학교 물리학과 NEMO Lab, ²AUROS Technology)

D9.06* [12:12 - 12:24]

i-line UV-LED와 Fly eye's 광학계 구조의 노광장치 연구 / 우종식* (선문대학교 나노과학과)

[D10-st] Complex Systems

2017. 4. 20 Thursday 11:00 – 12:36

Room: #202

좌장: 백 승 기 부경대학교

Chair: BAEK Seung Ki (Pukyong National Univ.)

D10,01(초) [11:00 - 11:24]

Current issues in multiplex complex systems / 고광일^{*1, 2} (¹고려대학교 물리학과, ²Department of Physics, University of California San Diego)

D10,02* [11:24 - 11:36]

Extracting a Hierarchical Backbone from Bipartite Networks / JO Woo Seong¹, AHN Yong-Yeol², KIM Beom Jun^{*1} (¹Department of Physics, Sungkyunkwan University, ²School of Informatics and Computing, Indiana University)

D10,03* [11:36 - 11:48]

Multifractal of the order submission / LEE Min-Young¹, JUNG Woo-Sung^{*1, 2, 3}, OH Gabjin⁴ (¹Department of Physics, POSTECH, ²Department of Industrial and Management, POSTECH, ³Asia Pacific Center for Theoretical Physics, ⁴Division of Business Administration, Chosun University)

D10,04 [11:48 - 12:00]

Power-grid system and spatial uniformity / LEE Mi Jin^{*1}, KIM Beom Jun^{*2} (¹Department of Physics, Inha University, ²Department of Physics, Sungkyunkwan University)

D10,05* [12:00 - 12:12]

Long-term Memory in Rank Dynamics of Popular Music / SOH Hyungjoon¹, JEONG Jaeseung², JEONG Hawoong^{*1, 3} (¹Department of Physics KAIST, ²Department of Bio and Brain Engineering KAIST, ³Institute for the BioCentury KAIST)

D10,06* [12:12 - 12:24]

추천 과정을 중심으로 한 노벨과학상 네트워크 분석 / 고병권^{1, 2}, 양재석^{*1} (¹한국과학기술원 미래전략대학원, ²MBC)

D10,07* [12:24 - 12:36]

Inference of Ecological Interactions in Microbial Communities by Population Time Series Data / KIM Soohyun¹, YANG Hyunmo², GHIM Cheol-Min^{*2} (¹School of Life Sciences, UNIST, ²Department of Physics, UNIST)

[D11-bp] Focus: Mechano-biophysics of cells

2017. 4. 20 Thursday 11:00 – 12:48

Room: #204

좌장: 윤 태 영 서울대학교

Chair: YOON Tae-Young (Seoul National Univ.)

D11,01 [11:00 - 11:12]

Observation of Single Membrane Proteins under Mechanical Tension / YOON Tae-Young^{*} (Department of Biological Sciences, Seoul National University)

D11.02(초) [11:12 - 11:36]

Matrix stiffness regulates gastric cancer cell activity in a 3D in vitro model / KIM Pilnam* (KAIST)

D11.03(초) [11:36 - 12:00]

Investigation on human cancer cell metastasis using microfluidic system / JEON Jessie S* (Department of Mechanical Engineering, KAIST)

D11.04(초) [12:00 - 12:24]

Effect of mechanical force on the actin bundle organization / LEE Hyungsuk*, KANG Byungjun, JO Seunghan (Mechanical Engineering, Yonsei University)

D11.05(초) [12:24 - 12:48]

HOLOTOMOGRAPHY TECHNIQUES FOR NON-INVASIVE LABEL-FREE 3D IMAGING OF LIVE CELLS AND TISSUES / PARK YongKeun* (Department of Physics, KAIST)

E [D12-at] Pioneer: Quantum information and quantum control with real and artificial atoms I

2017. 4. 20 Thursday 11:00 – 12:48

Room: #205

좌장: 이 재 훈 한국표준과학연구원

Chair: LEE Jae Hoon (KRISS)

D12.01(초) [11:00 - 11:36]

Optimal control and measurement of atomic spins / DEUTSCH Ivan H* (Physics and Astronomy, University of New Mexico)

D12.02(초) [11:36 - 12:12]

Quantum Control and Simulation of Complex Quantum Dynamics / JESSEN Poul S* (College of Optical Sciences, University of Arizona)

D12.03(초) [12:12 - 12:36]

Quantum information processing using lithium and rubidium atoms in 1D optical lattices / CHO D.* (Department of Physics, Korea University)

D12.04* [12:36 - 12:48]

Local operation of cold atomic qubit in hyperfine states implemented with ultrafast laser pulses / SONG Yunheung*, LEE Hangeol, KIM Hyusub, JO Hanlae, AHN Jaewook (Department of Physics, KAIST)

E [D13-pa] Pioneer: New horizon of field theories (장론의 새 지평) II

2017. 4. 20 Thursday 11:00 – 12:36

Room: #206

좌장: 이 범 훈 서강대학교

Chair: LEE Bum-Hoon (Sogang Univ.)

D13,01(초) [11:00 - 11:24]

New Exact Results in Calabi-Yau spaces, D-branes, and O-planes /

LEE Sungjay* (School of Physics, Korea Institute for Advanced Study)

D13,02(초) [11:24 - 11:48]

Implications of Duality on Fractional Quantum Hall Transitions, Composite Fermi Liquids, and Fractional Topological Insulators /

CHO Gil Young* (Department of Physics, Korea Advanced Institute of Science and Technology)

D13,03(초) [11:48 - 12:12]

Holographic conductivity and its applications / KIM Keun-Young*

(School of physics and chemistry, Gwangju Institute of Science and Technology)

D13,04(초) [12:12 - 12:36]

Holography of the Dirac Fluid / SIN Sang-Jin* (Hanyang University)

[D14-pa] Particle Physics EXP: Acc-based IV (LHC)

2017. 4. 20 Thursday 11:00 – 12:48

Room: #209

좌장: 김 태 정 한양대학교

Chair: KIM Tae Jeong (Hanyang Univ.)

D14,01* [11:00 - 11:12]

Drell-Yan Differential Cross Section Measurement at 13TeV with the CMS detector / LEE Kyeongpil*, NAM Kyungwook, YOO Hwidong*

(Department of Physics and Astronomy, Seoul National University)

D14,02 [11:12 - 11:24]

A study of Initial State Gluon Radiation on the Drell-Yan process in LHC at $\sqrt{s}=13$ TeV / 최준호^{*1, 2}, 김준호^{*1}, 유금봉^{*1}, 존 알몬드^{*1},

서현산^{*1}, 양운기^{*1} ('서울대학교 물리천문학부, '서울대학교 기초과학연구원)

D14.03 [11:24 - 11:36]

A study of top-quark mass measurement using the lepton energy distribution at the Large Hadron Collider / 김태정* (한양대학교)

D14.04 [11:36 - 11:48]

Boosted Top Quark Jet Tagging with Deep Learning Methods / CHOI Suyong*, LEE Seung Joon, KIM Yunjun (Department of Physics, Korea University)

D14.05 [11:48 - 12:00]

Higgs to WW measurements at 13 TeV with 2015 and 2016 data / LEE SangEun* (Department of Physics, Kyungpook National University)

D14.06 [12:00 - 12:12]

R&D status for improved RPCs in the Phase-II CMS/LHC experiment / LEE Kyong Sei*, PARK Sung Keun, KANG Minho, JO Youngmin (Korea University)

D14.07* [12:12 - 12:24]

A study of GEM muon reconstruction for the upgrade of CMS detector / 김재성*¹, 양운기*¹, 이상훈*², 박인규*² (¹서울대학교 물리학과, ²서울시립대학교)

D14.08* [12:24 - 12:36]

Muon Identification for CMS phase2 upgrade / JEON Dajeong, PARK Inkyu*, LEE Jason Sang hun* (University of Seoul)

D14.09 [12:36 - 12:48]

High-Quality Energy Measurement with a Dual-Readout Fiber Calorimeter / LEE Sehwook* (Department of Physics, Kyungpook National University)

SESSION E

2017 April 20(Thu) 14:00–15:48

E [E1-nu] Pioneer: High-density QCD using high-energy heavy ion collisions I

2017. 4. 20 Thursday 14:00 – 15:48

Room: #101

좌장 : 유 인 권 부산대학교

Chair: YOO In-Kwon (Pusan National Univ.)

E1.01(초) [14:00 - 14:36]

Light-flavour particle production in pp, p-Pb and Pb-Pb collisions with ALICE at the LHC / BELLINI Francesca^{*1}, ALICE Collaboration^{*2}
(¹University of Bologna, ²CERN)

E1.02(초) [14:36 - 15:12]

Heavy flavour Production in small and large systems measured with ALICE / KWEON MinJung^{*} (Inha University)

E1.03(초) [15:12 - 15:48]

Heavy Flavor Physics in Small Systems / ZHUANG Pengfei^{*}
(Department of Physics, Tsinghua University)

[E2-Se] Focus: Extreme-limit nanoscopy

2017. 4. 20 Thursday 14:00 – 16:00

Room: #102

좌장: 최 석 호 경희대학교

Chair: CHOI Suk-Ho (Kyung Hee Univ.)

E2.01(초) [14:00 - 14:24]

Raman Imaging of graphene domain and graphene FET structures / 노희석^{*} (전북대학교 물리학과)

E2.02(초) [14:24 - 14:48]

2차원 물질 엑시톤복합체의 근접광 이미징 / 김정용^{*} (성균관대학교 에너지과학과)

E2.03(초) [14:48 - 15:12]

Strong Field Acceleration and Steering of Ultrafast Electron Pulses from a Sharp Metallic Nanoprobe / PARK Doo Jae^{*1}, PIŁGOSIEWICZ Bjoern², LIENAU Christoph² (¹Hallym university, ²Carl-von-Ossietzky University)

E2.04(초) [15:12 - 15:36]

Dirac semimetal states in black phosphorus / KIM Keun Su^{*}

(Department of Physics, Yonsei University)

E2.05(초) [15:36 - 16:00]

Tip-enhanced Raman scattering imaging of 2-dimensional nanomaterials / JEONG Mun Seok^{*1,2} (¹Department of Energy Science, Sungkyunkwan University, ²Center for Integrated Nanostructure Physics, Sungkyunkwan University)

E [E3-ap] Pioneer: The 3rd Korea-Japan joint symposium on organic electronics II

2017. 4. 20 Thursday 14:00 – 15:36

Room: #103

좌장: 김 태 욱 한국과학기술연구원

Chair: KIM Tae-Wook (KIST)

E

E3.01(초) [14:00 - 14:24]

Origin and control of emitting dipole orientation of phosphorescent dyes in organic light-emitting diodes / KIM Jang-Joo*, MOON Chang-Ki, KIM Kwon-Hyun (Seoul National Univ.)

E3.02(초) [14:24 - 14:48]

Exploring the intrinsic transport in conjugated polymers by planar polymer transistors / NOH Yong-Young* (Department of Energy & Materials Engineering, Dongguk University)

E3.03(초) [14:48 - 15:12]

Spintronics with organic materials / YOO Jung-Woo* (Materials Science and Engineering, Ulsan National Institute of Science and Technology)

E3.04(초) [15:12 - 15:36]

Role of dopants in defining carrier densities, energetics, and transport in organic thermoelectric materials / KIM Gun-Ho* (Mechanical and Nuclear Engineering at Ulsan National Institute of Science and Technology)

E [E4-ap] Pioneer: Epi. complex oxide thin films II

2017. 4. 20 Thursday 14:00 – 15:12

Room: #104

좌장: 유 춘 리 한국외국어대학교

Chair: LIU Chun Li (Hankuk University of Foreign Studies)

E4.01(초) [14:00 - 14:24]

For real realization of ReRAM by using oxides having a brownmillerite structure / JUNG Chang Uk* (Department of Physics, Hankuk University of Foreign Studies)

E4.02(초) [14:24 - 14:48]

Photon-gated spin-polarized field-effect transistor / PAN Feng*
(School of Materials Science and Engineering, Tsinghua University)

E4.03(초) [14:48 - 15:12]

Ferroelectricity in ferromagnetic $\text{La}_2\text{NiMnO}_6$ thin films / TAKAHASHI R.*^{1,2}, LIPPMAA M.¹ (¹Institute for Solid State Physics, University of Tokyo, ²JST PRESTO)

[E5-pl] Focus: Frontiers in international fusion and technologies I

2017. 4. 20 Thursday 14:00 – 15:48

Room: #105

좌장: 오영국 국가핵융합연구소

Chair: OH Yeong Kook (NFRI)

E5.01(초) [14:00 - 14:24]

ITER 건설 및 한국 사업 추진 현황 / 정기정* (국가핵융합연구소 ITER 한국사업단)

E5.02(초) [14:24 - 14:48]

국제핵융합실험로(ITER) 프로젝트의 물리 및 기술 현황 / 이현곤*
(국가핵융합연구소 ITER 한국사업단)

E5.03(초) [14:48 - 15:12]

HCCR-TBS Test Plan and R&D Activities / CHO Seungyon*¹, AHN Mu-Young¹, LEE Dong Won², LEE Youngmin¹, PARK Yi-Hyun¹ (¹National Fusion Research Institute, ²Korea Atomic Energy Research Institute)

E5.04(초) [15:12 - 15:36]

Current manufacturing status of the ITER Vacuum Vessel in Korea / CHUNG Woo-Ho, KIM Yu-Gyeong, KIM Gwang-Ho, PARK Chul-Kyu, MOON Ho-Kyu, HONG Kwon-Hee, KIM Hyun-Soo, LEE Hyeon Gon* (National Fusion Research Institute)

E5.05 [15:36 - 15:48]

Successful Procurement of Conductor for ITER Toroidal Field Magnet in Korea / PARK Soo-Hyeon*, KWON Soun Pil, PARK Won Woo, CHOI Heekyung, MA Young Jae, SEO Young Ho (National Fusion Research Institute, Superconductivity Technology Team)

[E6-co] Focus: Synchrotron and laser plasma x-ray studies of condensed matter structure

2017. 4. 20 Thursday 14:00 – 16:00

Room: #106

좌장: 문봉진 광주과학기술원

Chair: MUN Bongjin Simon (GIST)

E6.01(초) [14:00 - 14:24]

Formation and control of band-gap in graphene by using low energy alkali metal ions / CHUNG Jinwook*, SUNG Sijin, RYU Mintae, LEE Paengro, KIM Jingul, PARK Heemin (Department of Physics, POSTECH)

E6.02(초) [14:24 - 14:48]

레이저 기반 복합 방사선 발생 및 극초단 x-선 형광기술을 이용한 신약후보물질 스크리닝 / 고도경* (광주과학기술원 물리광과학과)

E6.03(초) [14:48 - 15:12]

Ptychography and soft x-ray fluorescence detection techniques added in the scanning transmission x-ray microscopy at the PLS / SHIN Hyun-Joon*, KIM Namdong¹, KIM Hee-seob¹, LEE Woulwoo¹, KIM Sunam¹, TYLISZCZAK Tolek² (¹Pohang Accelerator Laboratory, Pohang University of Science and Technology, ²TT Consulting 18491 13th Ave NE Poulsbo)

E

E6.04(초) [15:12 - 15:36]

Tailoring material properties of organic semiconductors by ultra fast pulses / 김효정*, 채상민¹, 최지연², 이현휘³ (¹부산대학교, ²한국기계연구원, ³포항공대속기연구소)

E6.05 [15:36 - 15:48]

Femtosecond laser plasma hard X-ray pulses for ultrafast X-ray absorption studies / IQBAL Mazhar¹, IJAZ Muhammad¹, STIEL Holger², JANULEWICZ Karol Adam³, NOH Do Young*¹ (¹Department of Physic and Photon Science, GIST, ²Max Born Institute, Germany, ³Military University of Technology)

E6.06* [15:48 - 16:00]

Studying Dynamics of Internal Strain of Chemically Active Zeolites with Coherent X-ray Diffraction Imaging and X-ray Cross-Correlation / KANG Jinback¹, CHUNG Myungwoo¹, KIM Dongjin¹, KIM Jaeseung¹, YUN Kyuseok¹, CHA Wonsuk², HARDER Ross³, SONG Sanghoon⁴, AYMERIC Robert⁴, PHAM Tung Cao Thanh⁵, YOON Kyung Byung⁵, LEE Heeju^{1,6}, KIM Hyunjung*¹ (¹Department of Physics, Sogang University, ²Materials Science Division, Argonne National Laboratory, USA, ³Advanced Photon Source, Argonne National Laboratory, ⁴Linac Coherent Light Source, SLAC National Accelerator Laboratory, ⁵Department of Chemistry, Sogang University, Korea, ⁶Korea Atomic Energy Research Institute)

[E7-co] Focus: Frontiers in Nanoscale Imaging in Condensed Matter Physics

2017. 4. 20 Thursday 14:00 - 15:48

Room: #107

좌장: 박지용 아주대학교

Chair: PARK Ji-Yong (Ajou Univ.)

E7.01(초) [14:00 - 14:36]

Electron Microscopy Imaging of Nanostructures Assembled on Graphene Membrane / KIM Kwanpyo* (Department of Physics, Ulsan National Institute of Science and Technology (UNIST))

E7.02(초) [14:36 - 15:12]

Photothermal Induced Resonance (PTIR) 기술을 이용한 Organometal Trihalide Perovskite의 나노 scale 특성분석 연구 / 채중석* (기초과학연구원 양자나노과학 연구단, 이화여자대학교 물리학과)

E7.03(초) [15:12 - 15:48]

Scanning probe microscope based on quantum defects in diamond / LEE Donghun* (Department of Physics, Korea University)

[E8-co] Magnetism III

2017. 4. 20 Thursday 14:00 - 15:36

Room: #108

좌장: 김 동 현 충북대학교

Chair: KIM Dong Hyun (Chungbuk National Univ.)

E8.01 [14:00 - 14:12]

Similarity and difference between $\text{Ba}_2\text{CuOsO}_6$ and $\text{Sr}_2\text{CuOsO}_6$ systems in their magnetic structure and origin of band gap; density functional theory approach / 이창훈*^{1, 2}, 홍지숙¹, 심지훈*^{1, 2}
(¹포항공과대학교 화학과, ²포항공과대학교 첨단원자력 공학부)

E8.02 [14:12 - 14:24]

Effect of mechanical resonator on quantum oscillation of the force in molecular magnets / KIM Gwang-Hee* (세종대학교 물리학과)

E8.03 [14:24 - 14:36]

Phase diagram and high degeneracy points for generic anisotropic exchange on the garnet lattice / ANDREANOV Alexei*¹, MCCLARTY Paul² (¹Center for Theoretical Physics of Complex Systems, IBS, ²MPI PKS)

E8.04 [14:36 - 14:48]

Effect of mechanical resonator on quantum oscillation of the force in molecular magnets / KIM Gwang-Hee* (세종대학교 물리학과)

E8.05 [14:48 - 15:00]

New types of spin orbital liquids and their quantum criticality / LEE SungBin* (Department of Physics, Korea Advanced Institute of Science and Technology)

E8.06 [15:00 - 15:12]

SPSTM study on a triangular antiferromagnetic spin lattice / JUNG Jin-O¹, OK Jong-Mok², JANG Wonjun³, LEE Yeonghoon¹, LEE Sungbin¹, KIM Jun-Sung², LEE Jhinhwan^{*1} (¹Department of Physics KAIST, ²Department of Physics POSTECH, ³IBS Center for Axion and Precision Physics)

E8.07 [15:12 - 15:24]

Magnetic and thermal properties of a new quasi-one-dimensional S = 1 chain compound / CHOI Hong Eun¹, OH Yoon Seok^{*1, 2} (¹School of Natural Science, UNIST, ²Department of Physics, UNIST)

E8.08 [15:24 - 15:36]

프러시안 블루 유사계 나노 입자들의 광흡수 분광 연구 및 이론적 분석 / 이은숙¹, 김대현¹, 김현우¹, 성승호¹, S.M. Yusuf¹, 김봉재³, 민병일³, 김재영⁴, 강정수^{*1} (¹가톨릭대학교 물리학과, ²Solid State Physics Division, Bhabha Atomic Research Centre, ³POSTECH 물리학과, ⁴포항 가속기 연구소)

[E9-op] Quantum optics and optical information

2017. 4. 20 Thursday 14:00 - 15:24

Room: #201

좌장: 박 희 수 한국표준과학연구원

Chair: PARK Hee Su (KRISS)

E9.01(초) [14:00 - 14:24]

Selectively tunable excitonic optical Stark effect in two-dimensional group-VII anisotropic transition metal dichalcogenides ReS₂ / SIM Sangwan¹, LEE Doeon¹, NOH Minji¹, CHA Soonyong¹, SOH Chan Ho¹, SUNG Ji Ho³, CHO Sungjun², SHIM Wooyoung², JO Moon-Ho^{3, 4, 5}, CHOI Hyunyong^{*1} (¹School of Electrical and Electronic Engineering, Yonsei University, ²Department of Material Science and Engineering, Yonsei University, ³Institute for Basic Science (IBS), Pohang University of Science and Technology, ⁴Division of Advanced Materials Science, Pohang University of Science and Technology, ⁵Department of Materials Science and Engineering, Pohang University of Science and Technology)

E9.02* [14:24 - 14:36]

Quantum hacking on free-space QKD system / 이민수^{1, 2}, 우민기^{1, 3}, 정지성^{1, 4}, 김용수^{1, 2}, 한상욱^{*1}, 문성욱¹ (¹한국과학기술연구원 양자정보연구단, ²과학기술연합대학원대학교 나노재료공학과, ³아주대 전자공학과, ⁴연세대학교 물리학과)

E9.03* [14:36 - 14:48]

Smooth and Optimally Controlled Holonomic Quantum Gates / JANG Wonjin, KIM Dohun^{*} (Department of Physics and Astronomy, Seoul National University)

E9.04 [14:48 - 15:00]

Development of an effective mass approach for CdS quantum rods based on first-principles data / KHAN Muhammad Ejaz, KIM Hyo Seok, KIM Yong-Hoon* (Graduate School of Energy, Environment, Water, and Sustainability, Korea Advanced Institute of Science and Technology)

E9.05 [15:00 - 15:12]

Petahertz optical memory / LEE Jae Dong*, KIM Youngjae, KIM Chil-Min (Department of Emerging Materials Science, DGIST)

E9.06* [15:12 - 15:24]

Geometric and Dynamic phase properties of polarization independent spatial light modulators using commercial LCDs / 최민호, 최재우* (경희대학교 정보디스플레이학과)

[E10-st] Soft matter and biological physics

2017. 4. 20 Thursday 14:00 – 15:36

Room: #202

좌장: 김 철 민 울산과학기술원

Chair: GHIM Cheol-Min (UNIST)

E10.01(초) [14:00 - 14:24]

Local chain segregation and entanglements in a confined polymer melt / LEE Nam-Kyung* (Department of Physics, Sejong University)

E10.02 [14:24 - 14:36]

A Critical Role of Defect Fluctuations in Self-Assembly and Shape Formation of 2-D Polymers / LEE Ochul¹, BAEK Kangkyun¹, ROH JoonHo¹, KIM Kimoon^{1,3}, SUNG Wokyung*^{1,2} (¹Center for Self-assembly and Complexity, Institute for Basic Science (IBS), ²Department of physics, Pohang University of Science and Technology (POSTECH), ³Department of Chemistry, Pohang University of Science and Technology (POSTECH))

E10.03* [14:36 - 14:48]

Cellular senescence and its significance in three dimensional tree-like tumor growth / LEE HyunGyu Joseph, LEE Kyoung Jin* (Department of Physics, Korea University)

E10.04* [14:48 - 15:00]

A Novel Strategy to Enhance the Stability of Freestanding Lipid Bilayer / JANG Hyunwoo¹, JEONG Dae-Woong¹, LEE Suho¹, CHOI Siyoung Q.², CHOI Myung Chul*¹ (¹Department of Bio and Brain Engineering, KAIST, ²Department of Chemical and Biomolecular Engineering, KAIST)

E10.05* [15:00 - 15:12]

Sparse long-range inhibitory neural connections among clock

cells within the biological master clock, Suprachiasmatic nucleus
/ KIM Hyun, MIN CheolHong, LEE KyoungJin* (Department of Physics, Korea University)

E10.06 [15:12 - 15:24]

Dynamical analysis of the chordotonal neuron in Drosophila hearing supports Nan-lav as a mechano-electrical transduction channel / AHN Kang-Hun* (Department of Physics, Chungnam National University)

E10.07 [15:24 - 15:36]

Active learning and optimal experimental design: making the most of each measurement / BAK Ji Hyun* (KIAS)

E

[E11-bp] Molecular & cellular biological physics I

2017. 4. 20 Thursday 14:00 – 15:48

Room: #204

좌장: 이 남 기 서울대학교

Chair: LEE Nam Ki (Seoul National Univ.)

E11.01(초) [14:00 - 14:24]

ATP Hydrolysis promotes duplex DNA release by the RecA presynaptic complex / LEE Ja Yil*¹, GREENE Eric C² (¹School of Life Science UNIST, ²Department of Biochemistry and Molecular Biophysics, Columbia University)

E11.02 [14:24 - 14:36]

Molecular mechanisms of Cpf1 endonuclease revealed by single molecule FRET assay / 장윤수¹, 최윤희¹, 유지현², 배상수², 이상화*¹
(¹광주과학기술원 고등광기술연구소, ²한양대학교 화학과)

E11.03 [14:36 - 14:48]

Replication fork regression by Rad5 / SHIN Soochul¹, HOHNG Sungchul*¹ (¹Department of physics and astronomy, Seoul National University, ²Department of Biological Sciences, KAIST)

E11.04* [14:48 - 15:00]

Chd1 unwraps and slides nucleosomes with one ATP / KIRK Jaewon¹, LEE Ju Yeon¹, HOHNG Sungchul*¹ (¹Department of Physics and Astronomy, Seoul National University, ²Department of Biological Sciences, Graduate School of Nanoscience and Technology (WCU), KAIST)

E11.05* [15:00 - 15:12]

Methylated cytosine influence the formation of kink depending on the location observed by D-shaped DNA analysis / YEOU Sanghun¹, HWANG Jihee², KIM Cheolhee³, LEE Nam Ki*² (¹Department

of Physics, POSTECH, ²Department of Chemistry, Seoul National University,
³Education and Research office, Deagu National Science Museum)

E11.06 [15:12 - 15:24]

Single-molecule protein-protein interaction profiling predicts the dependence of cancers on receptor tyrosine kinases / 이홍원^{1,2}, 최병산³, 차민권³, 박상우², 윤태영^{*1} (¹서울대학교 자연과학대학 생명과학부, ²(주)프로티나, ³한국과학기술원 물리학과)

E11.07* [15:24 - 15:36]

Single-molecule visualizaiton of MutS- β clamp Interactions on mismatched DNA / OH Jungsic¹, CHO Won-Ki¹, LIU Jiaquan², KIM Daehyung¹, JERGIC Slobodan³, DIXON Nicholas E. ^{*3}, FISHEL Richard^{*2}, LEE Jong-Bong^{*1} (¹Department of Physics, Pohang University of Science & Technology (POSTECH), ²Department of Molecular Virology, Immunology and Medical Genetics, The Ohio State University, ³Centre for Medical and Molecular Bioscience and School of Chemistry, University of Wollongong)

E11.08 [15:36 - 15:48]

Co-transcriptional effects on TPP riboswitch folding / UHM Heesoo^{1,2,3}, KANG Wooyoung^{1,2,3}, HOHNG Sungchul^{*1,2,3} (¹Department of Physics and Astronomy, Seoul National University, ²Institute of Applied Physics, Seoul National University, ³National Center of Creative Research initiatives, Seoul National University)

E [E12-at] Pioneer: Quantum information and quantum control with real and artificial atoms II

2017. 4. 20 Thursday 14:00 – 16:00

Room: #205

좌장: 정 연 옥 한국표준과학연구원

Chair: CHONG Yonuk (KRISS)

E12.01(초) [14:00 - 14:36]

Hybrid quantum systems using collective degrees of freedom in solids / NAKAMURA Yasunobu* (Research Center for Advanced Science and Technology, The University of Tokyo)

E12.02(초) [14:36 - 15:00]

Quantum gate and noise characterization of nitrogen-vacancy electron spin qubits in diamond / YUN Ji-Won, LEE Donghyuck, KIM Dohun* (Department of Physics and Astronomy, Seoul National University)

E12.03(초) [15:00 - 15:24]

An Ultracold Gas of Dipolar Fermionic ²³Na⁴⁰K Molecules / PARK Jee Woo^{*1,2} (¹Department of Physics and Astronomy, Seoul National University, ²Department of Physics, Massachusetts Institute of Technology)

E12.04* [15:24 - 15:36]

Qubit decoherence and the Purcell effect in 3D transmon qubit in circuit QED / PARK Gwanyeol^{1,2}, NOH Taewan¹, CHOI Gahyun^{1,3}, CHOI Jiman^{1,4}, SONG Woon¹, LEE Soongul², PARK Kibog³, CHONG Yonuk^{*1,4} (¹Korea Research Institute of Standards and Science, ²Korea University Sejong Campus, Sejong, ³Ulsan National Institute of Science and Technology, ⁴University of Science and Technology)

E12.05 [15:36 - 15:48]

Study of microwave-activated c-Phase (MAP) gate in two transmon qubit system / NOH Taewan¹, PARK Gwanyeol^{1,2}, CHOI Gahyun^{1,3}, CHOI Jiman^{1,4}, SONG Woon¹, LEE Soongul², PARK Kibog³, CHONG Yonuk^{*1,4} (¹Korea Research Institute of Standards and Science, Daejeon, Korea, ²Korea University Sejong Campus, Sejong, Korea, ³Ulsan National Institute of Science and Technology, ⁴University of Science and Technology)

E

E12.06 [15:48 - 16:00]

범용성, 확장성, 신뢰성을 갖는 양자 컴퓨터 설계 및 분석 시스템 / 백충현¹, 손일권^{1,2}, 황용수¹, 김태완¹, 최병수^{*1} (¹Electronics and Telecommunications Research Institute, ²School of Electrical Engineering, Korea University)

E [E13-pa] Pioneer: Neutrino mass I

2017. 4. 20 Thursday 14:00 – 15:48

Room: #206

좌장: 박 향 규 기초과학연구원

Chair: PARK HyangKyu (IBS)

E13.01(초) [14:00 - 14:36]

Neutrino Mass, Mixing, the Nature of Massive Neutrinos and Leptonic CP Violation: Current Status and Future Prospects / PETCOV Serguey T.* (SISSA/INFN, Trieste, Italy, and Kavli IPMU, University of Tokyo)

E13.02(초) [14:36 - 15:00]

Origin of neutrino mass and Majorana neutrino / KANG Sin Kyu* (School of Liberal Arts, Seoul-Tech)

E13.03(초) [15:00 - 15:24]

Status and commissioning of the KATRIN experiment / RANITZSCH Philipp* (Institut für Experimentelle Kernphysik, Karlsruher Institut für Technologie)

E13.04(초) [15:24 - 15:48]

Electron neutrino mass determination using Ho-163 electron capture / GASTALDO Loredana* (Kirchhoff institute for physics, Heidelberg University)

[E14-pa] Particle Physics TH: BSM Pheno

2017. 4. 20 Thursday 14:00 – 15:36

Room: #209

좌장: 박명훈 기초과학연구원

Chair: PARK Myeong Hun (IBS)

E14.01 [14:00 - 14:12]

SIMP dark matter and forbidden mechanism / CHOI Soo-Min, KANG Yoo-Jin, LEE Hyun Min* (Department of Physics, Chung-Ang University)

E14.02* [14:12 - 14:24]

Electroweak Kaluza-Klein Dark Matter / FLACKE Thomas*¹, KANG Dong Woo^{1,2}, KONG Kyoungchul^{3,4}, MOHLABENG Gopolang^{4,5}, PARK Seong Chan^{6,7} (¹Center for Theoretical Physics of the Universe, Institute for Basic Science (IBS), ²Department of Physics, Sungkyunkwan University, ³Department of Physics and Astronomy, University of Kansas, ⁴Pittsburgh Particle physics, Astrophysics, and Cosmology Center, ⁵Fermi National Accelerator Laboratory, Theory Group, ⁶Department of Physics and IPAP, Yonsei University, ⁷Korea Institute for Advanced Study)

E14.03 [14:24 - 14:36]

On thermal averages for higher-order annihilations of dark matter / CHOI Soo-Min¹, LEE Hyun Min*¹, SEO Min Seok² (¹Department of Physics, Chung-Ang University, ²Center for Theoretical Physics of the Universe, Institute for Basic Science(IBS))

E14.04 [14:36 - 14:48]

Dark Matter "Collider" from inelastic boosted dark matter at large volume neutrino detectors / KIM Doojin, PARK Jong-Chul, SHIN Seodong* (Department of Physics, Yonsei University)

E14.05 [14:48 - 15:00]

Current LHC Constraints on Minimal Universal Extra Dimensions / FLACKE Thomas Dieter*¹, DEUTSCHMANN Nicolas^{2,3}, KIM Jong Soo¹ (¹Center for Theoretical Physics of the Universe, Institute for Basic Science (IBS), ²Universite Lyon 1, ³Centre for Cosmology, Particle Physics and Phenomenology (CP3))

E14.06 [15:00 - 15:12]

Model Independent Constraints on Charges of New Particles / JUNG Tae Hyun, CHWAY Dongjin, DERMISEK Radovan, KIM Hyung Do* (Institute for Basic Science, Center for Theoretical Physics of the Universe)

E14.07 [15:12 - 15:24]

Leptogenesis along LHu direction with dynamical Peccei-Quinn scale / BAE Kyu Jung*¹, BAER Howard², HAMAGUCHI Koichi^{3,4}, NAKAYAMA Kazunori^{3,4} (¹Center for Theoretical Physics of the Universe, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, University of

Oklahoma, ³Department of Physics, Graduate School of Science, University of Tokyo, ⁴Kavli Institute for the Physics and Mathematics of the Universe (Kavli IPMU), University of Tokyo)

E14.08 [15:24 - 15:36]

Non-minimal D-term Hybrid Inflation in Supergravity / KYAE

Bumseok* (Department of Physics, Pusan National University)

[E15-or] Researcher-led research support

2017. 4. 20 Thursday 14:00 – 15:48

Room: #301

좌장: 김 윤 기 광운대

Chair: Kim Yun Ki (Kwangwoon Univ.)

E

E15.01 [14:10 - 14:35]

정부 R&D 분석을 통해서 본 한국 과학정책의 문제 / 송지준 교수 (KAIST)

E15.02 [14:35 - 15:00]

대한민국 미래를 위한 기초연구 발전 비전 / 윤성훈 과장* (미래부, 기초연구진흥과장)

E15.03 [15:00 - 15:40]

패널 토론 / 최은하(광운대), 노도영(GIST)

* 미래부 기초연구진흥과장 불참 시 송호준 사무관 또는 서기관 대신 발표

SESSION F

2017 April 20(Thu) 16:00-17:48

E [F1-nu] Pioneer: High-density QCD using high-energy heavy ion collisions II

2017. 4. 20 Thursday 16:00 – 17:48

Room: #101

좌장 : 오 용 석 경북대학교

Chair: OH Yongseok (Kyungpook National Univ.)

F1.01(초) [16:00 - 16:36]

Heavy flavored mesons and jets in pp, pPb, and PbPb with CMS /
MOON Dong Ho* (Department of Physics, Chonnam National University)

F1.02(초) [16:36 - 17:12]

Quarkonium in pp, pPb and PbPb in CMS / JO Mihee*¹, KIM Yongsun*², LEE Songkyo*², LEE Kisoo², PARK Jaebeom², KIM Beomgon², OH Geonhee³, HONG Byungsik², MOON Dongho³ (¹LLR, Ecole Polytechnique, ²Korea University, ³Chonnam National University)

F1.03(초) [17:12 - 17:48]

The Beam Energy Scan Program at RHIC / DONG Xin*¹, STAR Collaboration*² (¹Lawrence Berkley National Laboratory, ²Brookhaven National Laboratory)

[F2-Se] Focus: Extreme environment Semiconductor

2017. 4. 20 Thursday 16:00 – 18:24

Room: #102

좌장: 송 진 동 한국과학기술연구원

Chair: SONG Jin Dong (KIST)

F2.01(초) [16:00 - 16:24]

Spin-transfer torque memory in extreme environments / MIN Byoung-Chul* (Korea Institute of Science and Technology)

F2.02(초) [16:24 - 16:48]

Nanoporous Oxide Memristive System for Next Generation Nonvolatile Memory Application / WANG Gunuk* (KU-KIST Graduate School of Converging Science & Technology, Korea University)

F2.03(초) [16:48 - 17:12]

내환경 고효율 GaN 전자소자의 글로벌 연구개발 동향 / 문재경*^{1, 2} (¹한국전자통신연구원(ETRI) 광무선융합연구본부, ²University of Science & Technology (UST), Department of Advanced Device Engineering)

F2.04(초) [17:12 - 17:36]

Nano-Electromechanical (NEM) Devices for Extreme Environments
/ CHOI Woo Young* (Department of Electronic Engineering, Sogang University)

F2.05(초) [17:36 - 18:00]

Steep Switching Device Technology Running at Low Power Supply Voltage / SHIN Changhwan* (Department of Electrical and Computer Engineering, University of Seoul)

F2.06(초) [18:00 - 18:24]

Silicon Carbide Semiconductor Devices for Harsh Environment Applications / SEOK Ogyun*, KANG In Ho, BAHNG Wook (Power Semiconductor Research Center, Korea Electrotechnology Research Institute)

[F3-ap] Pioneer: The 3rd Korea-Japan joint symposium on organic electronics III

2017. 4. 20 Thursday 16:00 – 17:00

Room: #103

좌장: 유 정 우 울산과학기술원

Chair: YOO Jung-Woo (UNIST)

F3.01* [16:00 - 16:12]

Asymmetric Electrical Properties in Pentacene Barristors with Graphene Electrodes / HWANG Wang-Taek, JEONG Hyunhak, KIM Dongku, JANG Yeonsik, KIM Jun-Woo, LEE Takhee* (Department of Physics and Astronomy, Seoul National University)

F3.02* [16:12 - 16:24]

Analysis of Interlayer Mixing in Solution Processed Organic Light Emitting Diodes / LEE Seungjun¹, AHN Dong A², SHON Hyun Kyong³, CHUNG JaeGwan⁴, LEE Tae Geol³, SUH Min Chul², PARK Yongsup*¹ (¹Department of physics, Kyung Hee University, ²Department of Information Display, Kyung Hee University, ³Center for Nano-Bio Technology, Korea Research Institute of Standards and Science, ⁴Platform Technology Lab., Samsung Advanced Institute of Technology)

F3.03 [16:24 - 16:36]

Photocurrent Extraction Efficiency Near Unity in a Thick Polymer Bulk Heterojunction / WALKER Bright*¹, KO Seo-Jin², NGUYEN Thanh Luan³, WOO Han Young³, KIM Jin Young¹ (¹Department of Chemistry, Korea University, ²Department of Energy Engineering, Ulsan National Institute of Science and Technology (UNIST), ³Center for Polymers and Organic Solids, University of California Santa Barbara (UCSB))

F3.04* [16:36 - 16:48]

Operation mechanism of energy cascade organic photovoltaics /

JUNG Kwanwook¹, PARK Soohyung¹, YOO Jisu¹, JUNG Na Eun¹, MOON Byung Joon², LEE Sang Hyun², LEE Hyunbok*³, YI Yeonjin*¹ (¹Institute of Physics and Applied Physics Yonsei University, ²Applied Quantum Composites Research Center Korea Institute of Science and Technology, ³Department of Physics, Kangwon National University)

F3.05 [16:48 - 17:00]

Fiber-shaped organic ferroelectric memory transistors fabricated on metal wires using P(VDF-TrFE) gate dielectric / LEE Sang-A, KIM Tae-Wook* (Applied Quantum Composites Research Center, Korea Institute of Science and Technology)

[F4-ap] Focus: Nanowire photonics

2017. 4. 20 Thursday 16:00 – 18:00

Room: #104

좌장: 박 홍 규 고려대학교

Chair: PARK Hong-Gyu (Korea Univ.)

F4.01(초) [16:00 - 16:24]

Reflective display Platform for Omnipresent Interactive Sensors / KIM Gangmook, KIM Hyeohn, SHIM Wooyoung* (Department of Materials Science and Engineering, Yonsei University)

F4.02(초) [16:24 - 16:48]

Transparent and Stretchable Electrodes Using Nanowires for Wearable Electronics / PARK Jang-Ung* (School of Materials Science and Engineering, Wearable Electronics Research Group, UNIST)

F4.03(초) [16:48 - 17:12]

Three-dimensional GaN light emitting crystals / PARK Won Il* (Division of Material Science & Engineering, Hanyang University)

F4.04(초) [17:12 - 17:36]

Active Optoelectronic Devices using Semiconductor Nanowires / NO You-Shin* (Department of Physics Konkuk University)

F4.05(초) [17:36 - 18:00]

광흡수 제어 복합차원 나노선 / 김선경* (경희대학교 응용물리학과)

[F5-pl] Focus: Frontiers in international fusion and technologies II

2017. 4. 20 Thursday 16:00 – 17:00

Room: #105

좌장: 이 현 곤 국가핵융합연구소

Chair: LEE Hyeon Gon (NFRI)

F5.01 [16:00 - 16:12]

Design and Manufacturing of AC/DC Converters for the ITER Coil Power Supply System / OH Jong-Seok* (National Fusion Research Institute)

F5.02 [16:12 - 16:24]

핵융합 연료주기의 가상 운전모델 개발 / 이서영¹, 장민호², 윤세훈², 하진국³, 이의수^{*2}, 이인범¹ (¹포항공과대학교, ²국가핵융합연구소, ³동국대학교)

F5.03 [16:24 - 16:36]

Radiation tolerance test of the VUV detector for ITER VUV spectrometers in KSTAR / AN YoungHwa, SEON Changrae, CHEON MunSeong, PAK Sunil, CHOI Jihyun, LEE H.G.* (National Fusion Research Institute)

F5.04 [16:36 - 16:48]

Current status of a combined CES and BES system of VEST / KIM Yoosung¹, SHI Yue-Jiang¹, LEE Kihyun¹, OH Soo-Ghee², CHUNG Kyoung-Jae¹, HWANG Y.S.¹, LEE H.G.*³ (¹Department of Nuclear Engineering, Seoul National University, ²Department of Physics, Ajou University, ³National Fusion Research)

F5.05* [16:48 - 17:00]

3D Field Induced Phase-Mixing of Zonal Flows in Tokamak Plasmas / CHOI Gyung Jin¹, HAHM Taik Soo*^{1,2} (¹Seoul National University, ²National Fusion Research Institute)

[F6-co] Strongly correlated systems I

2017. 4. 20 Thursday 16:00 – 17:48

Room: #106

좌장: 박 두 선 성균관대학교

Chair: PARK Tuson (Sungkyunkwan Univ.)

F6.01* [16:00 - 16:12]

Berry phase crossover in a nodal line semimetal SrAs₃ / KIM Hoil¹, JANG Bo Gyu², OK Jong Mok¹, KWON Chang Il¹, KANG Min Gu¹, CHOI Eun Sang³, KIM Keun Su¹, JO Youn Jung⁴, KANG Woun⁵, SHIM Ji Hoon², KIM Jun Sung*¹ (¹Department of Physics, Pohang University of Science and Technology, ²Department of Chemistry, Pohang University of Science and Technology, ³National High Magnetic Field Laboratory, Florida State University, Tallahassee, Florida 32310, USA, ⁴Department of Physics, Kyungpook National University, ⁵Department of Physics, Ewha Womans University)

F6.02 [16:12 - 16:24]

Observation of excitonic condensation gap evolution in an excitonic insulator, Ta₂NiSe₅ / SEO Yu-Seong¹, EOM Man Jin², KIM Jun Sung², KANG Chang-Jong², MIN Byung Il², HWANG Jungseek*¹ (¹Department of Physics, Sungkyunkwan University, ²Department of Physics, Pohang University of Science and Technology)

F6.03* [16:24 - 16:36]

Different Raman spectra of SmB_6 (6N) and SmB_6 (3N) / NGUYEN Thi Huyen¹, KANG Boyoun², CHO Beongki², HAN Mancheon³, CHOI HyoungJoon³, YANG In-Sang*¹ (¹Department of Physics, Ewha Womans University, ²School of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), ³Department of Physics, Yonsei University)

F6.04 [16:36 - 16:48]

Specifics of the phase transition in strained VO_2 films / SLUSAR Tetiana*¹, CHO Jin-Cheol^{1,2}, LEE Hyang-Rok³, YEE Ki-Ju³, KIM Hyun-Tak^{1,2} (¹MIT Lab., ETRI, ²Department of Advanced Device Technology, UST, ³Department of Physics, Chungnam National University)

F6.05* [16:48 - 17:00]

Subtle Correlation Between Solid State Phase Transition and Charge Carrier Dynamics in n-type VO_2 /p-type Si Heterostructures / BAE Garam, SOHN Min Kyun, NAM Jae Seok, KANG Ji Hoon, KANG Dae Joon* (Department of Physics, Sungkyunkwan University)

F6.06* [17:00 - 17:12]

Reversible redox reactions of $\text{SrFe}_{0.8}\text{Co}_{0.2}\text{O}_{3-\delta}$ thin films in ambient gas condition / LEE Joonhyuk¹, AHN Eunyoung¹, SWAIN Mitali¹, JEON Tae-Yeol², CHO Jinhyung³, JEEN Hyoungjeen*¹ (¹Department of Physics, Pusan National University, ²Pohang Accelerator Laboratory, Pohang University of Science and Technology, ³Department of Physics Education, Pusan National University)

F6.07* [17:12 - 17:24]

Growth of electronically distinct manganite thin films by modulating cation stoichiometry / RYU Sangkyun¹, LEE Joonhyuk¹, AHN Eunyoung¹, KIM Ji Woong¹, HERKLOTZ Andreas², BAE Jong-Seong³, LEE Ho Nyung², KIM Young Hak⁴, JEON Jae-Young⁴, CHO Jinhyung⁵, PARK Sungkyun¹, JEEN Hyoungjeen*¹ (¹Department of Physics, Pusan National University, ²Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 3783, ³Korea Basic Science Institute, ⁴Pohang accelerator laboratory, Pohang University of Science and Technology, ⁵Department of Physics Education, Pusan National University)

F6.08 [17:24 - 17:36]

Investigation on structural development of the $n = 2$ Ruddlesden-Popper rare-earth ferrites / LEE Minseong^{1,2}, LEE Hyun Jae², LEE Jun Hee², OH Yoon Seok*¹ (¹Department of Physics, UNIST, ²School of Energy and Chemical Engineering, UNIST)

F6.09 [17:36 - 17:48]

Magnetic Excitations of the Cu^{2+} Quantum Spin Chain in $\text{Sr}_3\text{CuPtO}_6$ / LEINER Jonathan*^{1,2}, OH Joosung^{1,2}, KOLESNIKOV Alexander³,

STONE Matthew³, LE Manh Duc⁴, MOURIGAL Martin⁵, CHEONG Sang-Wook⁶, PARK Je-Geun*^{1,2} (¹IBS-Center for Correlated Electron Systems, ²Department of Physics, Seoul National University, ³Quantum Condensed Matter Division, Oak Ridge National Laboratory, ⁴ISIS Facility, Rutherford Appleton Laboratory, ⁵School of Physics, Georgia Institute of Technology, ⁶Rutgers Center for Emergent Materials, Rutgers University)

[F7-te] Physics teaching

2017. 4. 20 Thursday 16:00 – 18:12

Room: #107

좌장: 박 종 호 진주교육대학교

Chair: PARK Jong Ho (Chinju National Univ. of Education)

F7.01 [16:00 - 16:12]

제6차 교육과정과 2009 개정 교육과정에 따른 초등 과학 교과서의 에너지 영역 단원에 제시된 과학 실험 기구 및 재료 비교 분석 / 박상우* (청주교육대학교 과학교육과)

F

F7.02* [16:12 - 16:24]

2015 개정 과학과 교육과정의 핵심역량과 물리 교과 성취기준과의 관계성 분석 / 이상원, 임성민* (대구대학교 과학교육학과)

F7.03 [16:24 - 16:36]

대조말뭉치를 통해 알아본 과학 교과서 물리 단원 텍스트의 고빈도 사고도구어 분석 / 윤은정, 박윤배* (경북대학교)

F7.04 [16:36 - 16:48]

상쇄간섭현상에 대한 과학영재학교 학생들의 이해 / 하상우*, 이경호² (¹경기과학고등학교, ²서울대학교 물리교육과)

F7.05 [16:48 - 17:00]

‘과학영재 발굴·육성 종합계획(2013–2017)’의 성과 평가 / 이봉우*, 김희경², 손정우³ (¹단국대학교 과학교육과, ²강원대학교 과학교육학부, ³경상대학교 물리교육과)

F7.06 [17:00 - 17:12]

학습조력자의 유무에 따른 동료토론에서의 상호작용 양상과 정신모형 변화의 차이 / 이지원, 모진우, 김중복* (한국교원대학교)

F7.07 [17:12 - 17:24]

과학교육을 위한 뉴턴역학을 기반으로 한 아인슈타인의 특수상대성 이론의 형성 이해 / 오준영* (한양대학교 창의융합교육원)

F7.08 [17:24 - 17:36]

아두이노와 센서를 이용한 마이켈슨 간섭계의 활용에 관한 탐구 (과학고등학교 R&E 수준) / 이승우*, 김영민² (¹동서대학교 메카트로닉스융합공학부, ²부산대학교

물리교육과)

F7.09 [17:36 - 17:48]

Installation and data analysis of Foucault's pendulum in Daegu National Science Museum / 김철희*, 정세훈 (국립대구과학관)

F7.10 [17:48 - 18:00]

HTML5 기반 동역학 시뮬레이션의 교육적 활용 / 오원근* (충북대학교 물리교육과)

F7.11 [18:00 - 18:12]

학생들이 생각하는 과학 실험과 지식의 역할: 단진자를 통한 중력 가속도 측정 실험을 중심으로 / 조한국* (단국대학교 교양학부)

[F8-co] Pioneer: Topological Semiconductors / Magnetism IV

2017. 4. 20 Thursday 16:00 - 17:48

Room: #108

좌장: 박 병 국 한국과학기술원

Chair: PARK Byong Guk (KAIST)

F8.01(초) [16:00 - 16:24]

Terahertz Electrodynamics of Topological Insulators / KIM Jae Hoon*, CHO Mann-Ho (Department of Physics, Yonsei University)

F8.02(초) [16:24 - 16:48]

Introducing Antiferromagnetic ordering in topological insulators by rare earth substitution / LEE Kyujoon^{*1}, KIM Jinsu², LEE Hyun Sung², TAKABATAKE Toshiro³, KIM Hanchul⁴, KIM Miyoung⁴, DOLINŠEK Janez⁵, JUNG Myung-Hwa² (¹Institute for Physics Johannes Gutenberg University Mainz, ²Department of Physics Sogang University, ³Department of Quantum matter Hiroshima University, ⁴Department of Nano Physics, Sookmyung Women's University, ⁵J. Stefan Institute and University of Ljubljana)

F8.03(초) [16:48 - 17:12]

Magnetic easy axis and ground state of antiferromagnetic CeNMSb₂ (NM:Cu and Au) compounds / 장재경, 이주열* (성균관대학교 물리학과)

F8.04 [17:12 - 17:24]

X-ray magnetic circular dichroism study on La-Co substituted M-type Sr hexaferrites / 고윤영¹, 노우석¹, 박병규², 김재영^{*2} (¹막스플랑크 한국/포스텍 연구소, ²포항가속기연구소)

F8.05 [17:24 - 17:36]

Voltage effect on the spin-wave eigenmodes in disk-shaped CoFeB nanomagnet / CHO Jaehun^{*1}, MIWA Shinji^{1, 3}, YAKUSHIJI Kay²,

TAMARU Shingo², KUBOTA Hitoshi², FUKUSHIMA Akio², YUASA Shinji², YOU Chun-Yeol⁴, SUZUKI Yoshishige^{1, 2, 3} (¹Graduate School of Engineering Science, Osaka University, Toyonaka, ²National Institute of Advanced Industrial Science and Technology (AIST), Spintronics Research Center, ³Center for Spintronics Research Network (CSRN), Osaka University, ⁴Department of Emerging Materials Science, DGIST)

F8.06 [17:36 - 17:48]

Evolution of Fermi surface in Gd-substituted Bi₂Se₃ single crystals by Shubnikov-de Haas oscillation / 김수환, 정명화*
(서강대학교 물리학과)

[F9-or] The physics festival and lecture for high-school students

2017. 4. 20 Thursday 14:00 – 17:30

Room: #201

좌장: 이 신 범 대구경북과학기술원

Chair: LEE Shin Buhm (DGIST)

F

F9.01 [14:10 - 16:00]

포스터 및 작품 발표(2층 복도)

F9.02 [16:00 - 17:00]

고교생 대상 강연 : 스핀트로닉스와 그 응용 / 김갑진 (KAIST)

F9.03 [17:00 - 17:15]

우수 발표에 대해 한국물리학회장상 시상

[F10-st] Biological Physics

2017. 4. 20 Thursday 16:00 – 17:24

Room: #202

좌장: 김 용 운 한국과학기술원

Chair: KIM Yong Woon (KAIST)

F10.01(초) [16:00 - 16:24]

Effects of molecular crowding and confinement on the spatial organization of a biopolymer / JUNG Youngkyun* (Supercomputing Center, KISTI)

F10.02 [16:24 - 16:36]

A new analog controller inspired by glucose homeostasis / 송태근, 조정효* (아태이론물리연구센터)

F10.03 [16:36 - 16:48]

Effect of Spike-Timing-Dependent Plasticity on Stochastic Spike Synchronization in A Small-World Neuronal Network / KIM Sang-Yoon, LIM Woochang* (Institute for Computational Neuroscience and

F10.04 [16:48 - 17:00]

Effects of a sleep restriction on the pain perception: qEEG biomarkers / KIM JongWon*¹, LEE Jin-Seong² (¹Department of Healthcare IT, Inje University, ²Department of Psychiatry, Pusan National University Yangsan Hospital)

F10.05 [17:00 - 17:12]

Extinction behavior from coexistence of two types / 박혜진*, TRAUlsen Arne (Theory department, Max Planck Institute for Evolutionary Biology)

F10.06 [17:12 - 17:24]

Distribution of number of local maxima in Fisher's Geometric Model / PARK Su-Chan* (The Catholic University of Korea)

[F11-bp] Molecular & Cellular biological physics II

2017. 4. 20 Thursday 16:00 – 17:48

Room: #204

좌장: 김 채 운 UNIST

Chair: KIM Chae Un (UNIST)

F11.01 [16:00 - 16:12]

NAP1L1 accelerates activation and discourages pausing to enhance nucleosome remodelling by CSB / LEE Ju Yeon¹, LAKE Robert J², KIRK Jaewon¹, BOHR Vilhelm A³, FAN Hua-Ying², HOHNG Sungchul*¹ (¹Department of Physics and Astronomy, Seoul National University, ²Epigenetics Program, Department of Biochemistry and Biophysics, Perelman School of Medicine, University of Pennsylvania, ³Laboratory of Molecular Gerontology, National Institute on Aging, National Institutes of Health, Baltimore)

F11.02* [16:12 - 16:24]

Enthalpic and entropic contributions in folding and unfolding kinetics of a single membrane protein with lipid bilayer conditions / CHOI Hyunkyu^{1,2}, MIN DUYOUNG³, BOWIE James U³, YOON Tae-Young*² (¹Department of Physics, Korea Advanced Institute of Science and Technology (KAIST), ²Department of Biological Sciences, Seoul National University (SNU), ³Department of Chemistry and Biochemistry, University of California–Los Angeles (UCLA))

F11.03* [16:24 - 16:36]

Research on HER2&HER3 signaling pathway using RTK dimer kinase assay / CHOI Byungsan¹, CHA Minkwon¹, PARK Sangwoo³, YOON Tae-Young*² (¹Department of Physics, Korea Advanced Institute of Science and Technology, ²School of Biological Sciences, Seoul National University, ³Proteina)

F11.04* [16:36 - 16:48]

Molecular Mechanism of NSF during SNARE disassembly / KIM Changwon¹, KIM Sung Hyun², RYU Je-Kyung³, YOON Tae-Young*² (¹Seoul National University, ²School of Biological Science, Seoul National University, ³Department of Bionanoscience, Kavli Institute of Nanoscience, Delft University of Technology)

F11.05* [16:48 - 17:00]

Observing dynamic membrane fluctuations of individual red blood cells from patients with diabetes mellitus employing 3-D quantitative phase imaging / LEE SangYun, PARK YongKeun* (Department of Physics, Korea Advanced Institute of Science and Technology)

F11.06* [17:00 - 17:12]

Mechanistic Studies of Intercellular Nanotubes / 장민혁, 오재호, 이종봉* (포항공과대학교 물리학과)

F

F11.07* [17:12 - 17:24]

Transcription-Translation coupling effects on transcriptional regulation / YANG Sora¹, KIM Seunghyeon¹, LEE Nam Ki*² (¹Department of Physics, POSTECH, ²Department of Chemistry, Seoul National University)

F11.08* [17:24 - 17:36]

Visualization of Chromatin Dynamics in Living Cells / CHAUDHARY Narendra^{1, 2}, CHO Hayoon¹, GANTUMUR Narangerel¹, KIM Hajin*^{1, 2} (¹Department of Biomedical Engineering, Ulsan National Institute of Science and Technology, ²Center for Genomic Integrity, Institute for Basic Science)

F11.09 [17:36 - 17:48]

Unconventional mechanical response of lipid-membrane compartments in living cells / KIM Jichul, YOON Tae-Young* (Center for Nanomedicine, Institute for Basic Science)

[F12-as] Toward multi-messenger astrophysics

2017. 4. 20 Thursday 16:00 – 17:36

Room: #205

좌장: 박 일 흥 성균관대학교

Chair: PARK IL Hung (Sungkyunkwan Univ.)

F12.01(초) [16:00 - 16:24]

Recent Progress in Cosmic Ray Observation and Effort for Multi-messenger Search / LEE Jik* (Department of Physics, Sungkyunkwan University)

F12.02(초) [16:24 - 16:48]

Gamm-ray bursts in the Multi-messenger era / JEONG Soomin* (SungKyunKwan University & IAA-CSIC)

F12.03(초) [16:48 - 17:12]

The Search for Astrophysical Neutrinos / ROTT Carsten*
(Sungkyunkwan University)

F12.04(초) [17:12 - 17:36]

**Multi-messenger Astrophysics with Gravitational-wave
Detections** / KIM Chunglee* (Korea Astronomy and Space Science Institute
(KASI))

[F13-pa] Pioneer: Neutrino mass II

2017. 4. 20 Thursday 16:00 – 17:48

Room: #206

좌장: 김 홍 주 경북대학교

Chair: KIM Hong Joo (Kyungpook National Univ.)

F13.01(초) [16:00 - 16:36]

Neutrino Issues and Neutrinoless Double Beta Decay / ELLIOTT
Steven R.* (Physics Division, Los Alamos National Laboratory)

F13.02(초) [16:36 - 17:00]

**Recent theoretical progress of the double beta decay by the
QRPA and DQRPA** / CHEOUN Myung-Ki* (Soongsil University)

F13.03(초) [17:00 - 17:24]

KamLAND-Zen experiment / HOSOKAWA Keishi* (Research Center for
Neutrino Science, Tohoku University)

F13.04(초) [17:24 - 17:48]

The AMoRE Project / KIM Yong-Hamb*^{1,2} (¹Center for Underground Physics,
Institute for Basic Science, ²Center for Quantum Measurement Science, Korea
Research Institute of Standards and Science)

[F14-pa] Particle Physics TH: Field and string

2017. 4. 20 Thursday 16:00 – 17:12

Room: #209

좌장: 김 낙 우 경희대학교

Chair: KIM Nakwoo (Kyung Hee Univ.)

F14.01 [16:00 - 16:12]

**Covariant open bosonic string field theory on multiple Dp-branes
in the proper-time gauge** / LEE Taejin* (Department of Physics, Kangwon
National University)

F14.02 [16:12 - 16:24]

**Domain walls of massive Kähler sigma models on SO(2N)/U(N) in
three dimensions** / SHIN Sunyoung* (CQeST, Sogang University)

F14.03 [16:24 - 16:36]

Strong Correlation Effects on Surfaces of Topological Insulators via Holography / SEO Yunseok*, SIN Sang-Jin, SONG Geunho (Hanyang University)

F14.04 [16:36 - 16:48]

Dynamical Spacetime from Instanton / 김경규*¹, 고석태*², 양현석*³
(¹세종대학교, ²제주대학교, ³서강대학교)

F14.05 [16:48 - 17:00]

Holography of dyonic ISO(7)-gauged N=8 supergravity / 김낙우, 김효중, 서민우* (경희대학교 물리학과)

F14.06 [17:00 - 17:12]

Holographic entanglement entropy and thermodynamics-like first law / 장동민¹, 김윤배¹, 권오갑*¹, TOLLA Driba D.^{1,2} (¹Department of Physics, Sungkyunkwan University, ²University College, Sungkyunkwan University)

F

[F15-or] The vision for government funded basic research projects and the perspectives in 2017

2017. 4. 20 Thursday 16:00 – 17:00

Room: #301

좌장: 김 윤 기 광운대

Chair : Kim YunKi (Kwangwoon Univ.)

F15.01 [16:00 - 16:40]

2017 년 기초연구사업 안내 / 이용훈 단장 (연구재단 자연과학단)

SESSION G

2017 April 21(Fri) 9:00–10:48

[G1-nu] Relativistic Heavy Ion Collisions I

2017. 4. 21 Friday 09:00 – 10:36

Room: #101

좌장 : 조 성 태 강원대학교

Chair: CHO Sung Tae (Kangwon National Univ.)

G1,01 [09:00 - 09:12]

Measurement of distribution of secondary neutrons induced by heavy ions / 함철민¹, 김경식⁵, 민경주¹, 박상인¹, 박태선¹, 박혜민⁴, 양성철², 이영욱², 이은지³, 이철우², 인은진¹, 송태영², 주관식⁴, 홍승우^{*1}, TOKUMOTO Chihaya³, SHIGYO Nobuhiro³ (¹성균관대학교, ²한국원자력연구원, ³Kyushu University, ⁴명지대학교, ⁵한국항공대학교)

G1,02 [09:12 - 09:24]

Bottomonia measurements in pp and PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with CMS. / OH Geonhee, MOON Dong Ho* (Department of Physics, Chonnam National University)

G1,03* [09:24 - 09:36]

Two-particle correlation via Bremsstrahlung / 허경범, 조소연, 윤진희* (인하대학교 물리학과)

G1,04* [09:36 - 09:48]

Chip characterization test for ALPIDE at ALICE / 박종한*, 권민정* (인하대학교 물리학과)

G1,05* [09:48 - 10:00]

Simulation to calculate impact parameters of conversion electrons & D-meson decay electrons / 방혜선, 권민정* (인하대학교 물리학과)

G1,06* [10:00 - 10:12]

Measurements of open bottom and charm hadron production through semi-leptonic decay channel in Au+Au collisions with the STAR experiment / OH Kunsu*, YOO In-Kwon (Pusan National University)

G1,07* [10:12 - 10:24]

Multiplicity dependent of v_2 measurement in PHENIX Run-15 p+Au $\sqrt{s_{NN}}=200$ GeV / 한세영* (이화여자대학교)

G1,08* [10:24 - 10:36]

Charmonium modification in pPb and PbPb collisions at 5.02 TeV

with CMS / 박재범, 이송교, 김용선, 홍병식*, 이기수 (Korea University)

[G2-Se] Compound Semiconductor II

2017. 4. 21 Friday 09:00 – 10:12

Room: #102

좌장: 유 영 준 한국전자통신연구원

Chair: YU Young-Jun (ETRI)

G2.01* [09:00 - 09:12]

Si 기판 위에 성장한 CdTe/ZnTe 이중 양자점에서 ZnTe 두께에 따른 광학적 특성 연구 / 임기홍¹, 진성환¹, 이창열², 임상엽², 최진철¹, 이홍석^{*3}
(¹연세대학교 물리학과, ²광주과학기술원 고등광기술연구소, ³전북대학교 물리학과)

G2.02* [09:12 - 09:24]

Temperature dependence of center-of-mass exciton confinement states in a single CdTe/CdMnTe quantum well / 이우진¹, 김민우¹, 김광석^{*1, 2} (¹부산대학교 인지메카트로닉스공학과, ²부산대학교 광메카트로닉스공학과, 물리교육과)

G2.03* [09:24 - 09:36]

Optical and surface electric properties of Sn doped (Zn,Yb)O transparent conducting films / OH Seol Hee¹, DINIA Aziz², SLAOU Abdelilah², FERBLANTIER Gerald², STEVELER Emilie², FIX Thomas², JO William^{*1} (¹Department of Physics, Ewha Womans University, ²Institut de Physique et de Chimie des Materiaux de Strasbourg)

G2.04* [09:36 - 09:48]

Investigation of thermoelectric properties of n-type SnSe₂ single crystals / PHAM Anh Tuan, VU Thi Hoa, NGUYEN Anh Phuong, CHO Sunglae* (Department of Physics and Energy Harvest Storage Research Center, University of Ulsan)

G2.05* [09:48 - 10:00]

Structural and electrical properties of grown film on 4H-SiC by highly active plasma process and its growth mechanism / KIM Dae-Kyoung¹, JEONG Kwang-Sik¹, CHUNG Kwun-Bum², CHO Mann-Ho^{*1} (¹Institute of Physics and Applied Physics, Yonsei University, ²Division of Physics and Semiconductor Science, Dongguk University)

G2.06 [10:00 - 10:12]

SiC를 이용한 나노탄소 박막 제조 연구 / 고향주^{*1}, 김윤현¹, 김성민¹, 안춘호²
(¹한국광기술원 광CT에너지연구센터, ²(주)하이솔라)

[G3-ap] Advanced materials syntheses and characterizations

2017. 4. 21 Friday 09:00 – 10:36

Room: #103

좌장: 양 상 모 숙명여자대학교

Chair: YANG Sang Mo (Sookmyung Women's Univ.)

G3.01 [09:00 - 09:12]

Growth, transport and thermoelectric properties of $\text{SnS}_{1-x}\text{Se}_x$ ($0 \leq x < 1$) single crystals / NGUYEN Thi Minh Hai, NGUYEN Van Quang, DUONG Anh Tuan, CHO Sunglae* (Department of Physics, University of Ulsan)

G3.02* [09:12 - 09:24]

TEM Observation of C_{70} Dynamics on graphene at Single Molecular Level / CHOE Jeongheon, LEE Yangjin, KIM Kwanpyo* (Department of Physics, Ulsan National Institute of Science and Technology)

G3.03 [09:24 - 09:36]

Enhanced visible emissions of Pr^{3+} -doped oxyfluoride transparent glass-ceramics containing SrF_2 nanocrystals / KESAVULU C. R.¹, VISWANATH C. S. Dwaraka², KARKI Sujita¹, ARYAL Pabitra¹, JAYASANKAR C. K.², KIM H. J.*¹ (¹Department of Physics, Kyungpook National University, ²Department of Physics, Sri Venkateswara University)

G3.04* [09:36 - 09:48]

Oriental Epitaxy of AgCN Microwires on Various Hexagonal Two-Dimensional Crystals / LEE Yangjin¹, KOO Jahyun², YOON Jun-Yeong¹, KIM Kangwon³, CHOE Jeongheon¹, JANG Jeongsu¹, HWANG Jun Yeon⁶, JEONG Hu Young⁴, KIM Yong Soo⁵, CHEONG Hyeonsik³, RUOFF Rodney S.^{7,8}, LEE Hoonkyung², KIM Kwanpyo*¹ (¹Department of Physics, Ulsan National Institute of Science and Technology (UNIST), ²Department of Physics, Konkuk University, ³Department of Physics, Sogang University, ⁴UNIST Central Research Facilities, Ulsan National Institute of Science and Technology (UNIST), ⁵Department of Physics and Energy Harvest-Storage Center (EHSRC), University of Ulsan, ⁶Institute of Advanced Composite Materials, Korea Institute of Science and Technology (KIST), ⁷Department of Chemistry, Ulsan National Institute of Science and Technology (UNIST), ⁸Center for Multidimensional Carbon Materials (CMCM), Institute for Basic Science (IBS))

G3.05* [09:48 - 10:00]

Optical properties of CVD grown In_2S_3 films / SIM Yumin, KIM Jinbae, SEONG Maeng-Je* (Department of Physics, Chung-Ang University)

G3.06* [10:00 - 10:12]

V_2O_5 Nanoparticles, Nanorods and Nanowires: Fabrication, Structural and Optical Characterization / TOP Le Khac, KANG Manil, TAM Tran Van, KIM SokWon* (Department of Physics, University of Ulsan)

G3.07 [10:12 - 10:24]

Thermoelectric transport properties of bulk CuAgSe / NGUYEN Thi Huong, NGUYEN Van Quang, TRAN Thi Toan, CHO Sunglae* (Department of Physics and Energy Harvest Storage Research Center, University of Ulsan)

G3.08* [10:24 - 10:36]

Structural and dielectric properties of epitaxial LaInO₃(001) films grown on BaSnO₃(001) substrates by pulsed laser deposition / LEE Woong-Jhae¹, KANG Jeonghun¹, LEE Hwangho², KO Kyung-Tae², PARK Jae-Hoon², KIM Kee Hoon^{*1,3} (¹Center for Novel States of Complex Materials Research, Department of Physics and Astronomy, Seoul National University, ²Max Planck POSTECH Center for Complex Phase Materials, Pohang University of Science and Technology, ³Institute of Applied Physics, Department of Physics and Astronomy, Seoul National University)

[G4-ap] Device Application of Nanomaterials

2017. 4. 21 Friday 09:00 – 11:00

Room: #104

좌장: 이 민 백 인하대학교

Chair: LEE Minbaek (Inha Univ.)

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G4.01* [09:00 - 09:12]

Selective area growth of GaN micro-rods on graphene layers for flexible light emitting diodes / YOO Dongha^{1,2}, LEE Keundong^{1,2}, TCHOE Youngbin^{1,2}, JO Janghyun^{2,3}, KIM Heehun^{1,2}, PARK JunBeom^{1,2}, PARK Joon Young^{1,2}, KIM Miyoung^{2,3}, YI Gyu-Chul^{*1,2} (¹Department of Physics and Astronomy and Institute of Applied Physics, Seoul National University, ²Research Institute of Advanced Materials, Seoul National University, ³Department of Materials Science and Engineering, Seoul National University)

G4.02* [09:12 - 09:24]

Flexible Transparent Ambipolar Transistor with High Mobility and On/Off Ratio / 오광택, 전지훈, 이덕현, 이민주, 박배호* (건국대학교 물리학과)

G4.03* [09:24 - 09:36]

Pseudo-Wrap-Gate InAs Nanowire Field Effect Transistor with Pre-Deposited Gate Insulator / JIN Hanbyul¹, MO Kyu Hyung², HWANG Jeongwoo³, SHIN Jae Cheol⁴, YU Byeong-Sung^{5,6}, KIM Ju-Jin⁶, BAE Myung-Ho⁵, KIM Nam⁵, PARK Kibog^{*1,2} (¹School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology (UNIST), ²Department of Physics, Ulsan National Institute of Science and Technology (UNIST), ³Department of Applied Physics, Kyung Hee University, ⁴Department of Physics, Yeungnam University, ⁵Korea Research Institute of Standards and Science, ⁶Department of Physics, Chonbuk National University)

G4,04* [09:36 - 09:48]

Self-rectifying Nanoporous Ta₂O_{5-x} Memristive Device for Neuromorphic System / 장성훈, 왕건욱* (고려대학교 KU-KIST 융합대학원)

G4,05* [09:48 - 10:00]

Synaptic devices implemented in two dimensional layered single crystal chromium thiophosphate (CrPS4) / LEE Mi Jung¹, LEE Sangik¹, YOON Chansoo¹, LEE Sungmin², JANG Jun Tae³, KIM Dae Hwan³, PARK Je-Geun², PARK Bae Ho*¹ (¹Division of Quantum Phases and Devices, Department of Physics, Konkuk University, ²Department of Physics and Astronomy, Seoul National University, ³School of electrical engineering, Kookmin university)

G4,06 [10:00 - 10:12]

Low Power Consumption NO₂ Micro Gas Sensor Using ZnO Nanorods and Micro-heater / MOON Seung Eon* (ETRI)

G4,07* [10:12 - 10:24]

Organic bi-stable memory device based on CdSe/ZnS quantum dots embedded in aluminum oxide / JUNG In Su, KIM Sae Wan, LEE Jae Sung, KWON Jin Beom, LEE Sang Won, KIM OK Sik, KANG Shin Won* (School of Electronics Engineering College of IT engineering, Kyungpook National University)

G4,08 [10:24 - 10:36]

얇은 콜로이드 양자점막을 단일집적한 수직공진 면발광 레이저 / 박연상*, 김효철, 조경상, 노영근 (삼성전자종합기술원 디바이스랩)

G4,09* [10:36 - 10:48]

콜로이드 양자점 광자결정 띠가장자리 레이저와 수동형 도파로의 온 칩 결합 / 정현호¹, 한창현¹, 박연상², 조경상², 전현수*¹ (¹서울대학교 물리천문학부, ²삼성종합기술원)

G4,10* [10:48 - 11:00]

광자결정 형광체를 이용한 색변환 효율 증가 및 효율적인 백색광 구현 / 이종호¹, 민경택¹, 박연상², 조경상², 전현수*¹ (¹서울대학교 물리천문학부, ²삼성종합기술원)

[G5-pl] Nuclear fusion / Plasma instruments, processing & application

2017. 4. 21 Friday 09:00 - 10:48

Room: #105

좌장: 이 관 철 국가핵융합연구소

Chair: LEE Kwan Chul (NFRI)

G5,01 [09:00 - 09:12]

Counter current drive / counter torque discharges in KSTAR / KIM Jayhyun*¹, LEE J.W.², CHOI M.J.¹, KO S.H.¹, KIM J.H.¹, KIM H.S.¹, KIM

S.K.¹, JOUNG M.¹, HAN J.¹, WANG S.J.¹, CHUNG J.¹, KO J.¹, KO W.H.¹, NA Y.S.²
(¹National Fusion Research Institute, ²Seoul National University)

G5.02(㉔) [09:12 - 09:36]

Progress and plan of KSTAR project in the aspect of the tokamak environments for the long pulse and high performance plasma operation / OH Yeong-Kook^{*1}, KWAK Jong-Gu¹, YOON Siwoo¹, PARK Hyeon² (¹National Fusion Research Institute, ²UNIST)

G5.03 [09:36 - 09:48]

Characteristics of Edge Transport Barriers under Co- and Counter NBI heating and the Effect of the Non-axisymmetric Magnetic Field in KSTAR* / KO Won-Ha^{*1}, LEE J.H.¹, KIM J.¹, KO S.H.¹, KWON J.M.¹, DIAMOND P.H.², IDA K.³, Y. In¹, YOON S.W.¹, OH Y.K.¹ (¹National Fusion Research Institute, ²CMTFO and CASS, University of California, ³National Institute for Fusion Science)

G5.04(㉔) [09:48 - 10:12]

A generalized Ginzburg model for the nonlinear stability of magnetized plasma boundary with shear flow / YUN Gunsu^{*1, 2}, OH Young Min³, LEE Jieun¹, LEE Jaehyun⁴, HWANG Hyung Ju³ (¹Department of Physics, Pohang University of Science and Technology, ²Division of Advanced Nuclear Engineering, Pohang University of Science and Technology, ³Department of Mathematics, Pohang University of Science and Technology, ⁴Department of Physics, Ulsan National Institute of Science and Technology)

G5.05 [10:12 - 10:24]

Investigation of MHD instabilities in high normalized beta KSTAR plasmas / PARK Y.S.^{*1}, SABBAGH S.A.¹, BERKERY J.W.¹, KIM J.2, YOON S.W.², KO W.H.², JEON Y.M.², HAHN S.H.², IN Y.², BAK J.G.², BIALEK J.M.¹, JARDIN S.C.³, CHOI M.J.², LEE S.G.², KWAK J.G.², YUN G.S.⁴, OH Y.K.², PARK H.K.^{2, 5} (¹Department of Applied Physics, Columbia University, ²National Fusion Research Institute, ³Princeton Plasma Physics Laboratory, Princeton, ⁴Pohang University of Science and Technology, ⁵Ulsan National Institute of Science and Technology)

G5.06 [10:24 - 10:36]

The design and experimental study of a microwave plasma source using a cylindrical resonance cavity at sub-torr pressures* / PARK Seungil, YOON Sung Young, YI Changho, RYU Seungmin, KIM Seong Bong^{*}, YOO Suk Jae (Plasma Technology Research Center, National Fusion Research Institute)

G5.07 [10:36 - 10:48]

Thomson scattering measurement of electron temperature and density in a 25-mm line at 63 points / LEE Kiyong^{*}, LEE Kangil, KIM Jihun, LHO Taihyeop (National Fusion Research Institute)

[G6-co] Strongly correlated systems II

2017. 4. 21 Friday 09:00 – 10:36

Room: #106

좌장: 송 종 현 충남대학교

Chair: SONG Jong Hyun (Chungnam National Univ.)

G6,01* [09:00 - 09:12]

Inverted magnetic hysteresis and magnetoelectric effect in Er₂CoMnO₆ single crystals / 문재영, 김미경, 오상협, 이나라, 최영재* (연세대학교 물리학과)

G6,02* [09:12 - 09:24]

Anomalous critical exponents in the vicinity of the Mott transition in quasi-one-dimensional organic conductors / JANG Dong Hyun¹, SUR Yeahan¹, MIYAMOTO Sho², NISHIKAWA Hiroyuki², MURATA Keizo¹, KIM Kee Hoon*¹ (¹Department of physics and astronomy, Seoul National University, ²Faculty of Science, Ibaraki University)

G6,03* [09:24 - 09:36]

Evidence for a field-induced quantum spin liquid in a-RuCl₃ / CHOI Kwang-Yong*, DO Seung-Hwan (Department of Physics, Chung-Ang University)

G6,04* [09:36 - 09:48]

Evaluation of g-factors in 5d double perovskite Mott insulators using Wannier function approach / 안교훈¹, PAJSKR K.³, KUNES J.^{4, 5}, 이관우*^{1, 2} (¹고려대학교 대학원 응용물리학과, ²고려대학교 세종캠퍼스 디스플레이반도체물리학부, ³Department of Condensed Matter Physics, Charles University in Prague, ⁴Institute of Solid State Physics, ⁵Institute of Physics, Academy of Sciences of the Czech Republic)

G6,05* [09:48 - 10:00]

Magnetic ground state of SrRuO₃ thin film and applicability of standard first-principles approximations to metallic magnetism. / 이시현, 한명준* (한국과학기술원 물리학과)

G6,06* [10:00 - 10:12]

Development of impurity solvers for the dynamical mean field theory: IPT, ED, and CTQMC / HAN Mancheon^{1, 2}, OH Hyungju^{1, 2}, LEE Choong-Ki², CHOI Hyoung Joon*^{1, 2} (¹Department of Physics and IPAP, Yonsei University, ²Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University)

G6,07* [10:12 - 10:24]

Establishing the $J_{\text{eff}} = 3/2$ ground state in a lacunar spinel GaTa₄Se₈ / JEONG Min Yong¹, CHANG Seo Hyoung², SIM Jae-Hoon¹, SAID

Ayman³, CASA Diego³, GOG Thomas³, JANOD Etienne⁴, CARIO Laurent⁴, KIM Jungho^{*4}, HAN Myung Joon^{*1} (¹Department of Physics, Korea Advanced Institute of Science and Technology, ²Department of Physics, Chung-Ang University, ³Advanced Photon Source, Argonne National Laboratory, ⁴Institut des Matériaux Jean Rouxel (IMN), Université de Nantes, CNRS)

G6.08* [10:24 - 10:36]

Topological Phase Transitions in Dirac semi-metals of distorted spinels / 한상은, 조길영, 문은국* (한국과학기술원)

[G7-co] Surface/Interface/Nanomaterial I

2017. 4. 21 Friday 09:00 – 10:36

Room: #107

좌장: 엄 대 진 한국표준과학연구원

Chair: EOM Daejin (KRISS)

G7.01* [09:00 - 09:12]

Evaporation of colloidal drops on an inclined surface / 김진영¹, 김민식², 이동건², 원병목^{*1} (¹성균관대학교 신소재공학부 및 나노과학기술학과, ²경기과학기술대학교)

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G7.02* [09:12 - 09:24]

STM/STS Investigation of WSe₂ for Graphene Barristor Device Application / JUNG Seong Jun¹, JEONG Taehwan¹, SHIM Jaewoo², PARK Jin-Hong^{1,2}, SONG Young Jae^{*1,3} (¹SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, ²The School of Electronic and Electrical Engineering, Sungkyunkwan University, ³Department of Physics, Sungkyunkwan University)

G7.03 [09:24 - 09:36]

X-ray Absorption Spectroscopy Study of Zinc Titanates formed at Annealed ZnS/TiN Interfaces / 이민지¹, MOHAMED Ahmed Yousef¹, 김도영¹, 김대현², 박태주^{2,3}, 조덕용^{*2} (¹전북대학교 물리학과, ²한양대학교 재료공학과, ³한양대학교 재료화학공학과)

G7.04* [09:36 - 09:48]

Graphene on Transparent Nanostructures / 임성빈, 최재우* (경희대학교 정보디스플레이학과)

G7.05* [09:48 - 10:00]

Enhanced Piezoelectric Characteristics of Monoclinic KNbO₃ Nanorods / OH Seol Hee¹, YUN Byung Kil², JUNG Jong Hoon², JO William^{*1} (¹Department of Physics, Ewha Womans University, ²Department of Physics, Inha University)

G7.06* [10:00 - 10:12]

The influence of structural disorder and phonon on metal-to-

insulator transition of VO₂ / 황인희, 김정란, 박창인, 한상욱* (전북대학교 물리교육학과)

G7.07* [10:12 - 10:24]

STM study on the solid solution alloy of SnSe_{1-x}S_x / TRINH Thi Ly¹, MIN Taewon², DUVJIR Ganbat¹, KIM Sanghwa¹, M. SAAD Mahmoud¹, NGUYEN Thi Minh Hai¹, CHO Sunglae¹, LEE Jaekwang², KIM Jungdae*¹ (¹Department of physics, BRL, and EHSRC, University of Ulsan, ²Department of physics, Pusan National University)

G7.08 [10:24 - 10:36]

First-principles study of work functions of black phosphorus nanosheets / KIM Han-gyu, CHOI Hyoungh Joon* (Department of Physics and IPAP, Yonsei University)

[G8-co] Magnetism V

2017. 4. 21 Friday 09:00 – 11:00

Room: #108

좌장: 정 종 율 충남대학교

Chair: JEONG Jong-Ryul (Chungnam National Univ.)

G8.01* [09:00 - 09:12]

Intrinsic spin Hall effect from the orbital-dependent Berry curvature / GO Dongwook¹, KIM Changyoung², LEE Hyun-Woo*¹ (¹Department of Physics, Pohang University of Science and Technology, ²Department of Physics and Astronomy, Seoul National University)

G8.02* [09:12 - 09:24]

Stabilization of the transverse conical state and optimized magnetoelectric coupling in chemically tuned Co₂Y-type hexaferrites / PARK Chang Bae¹, SHIN Kwang Woo¹, CHUN Sae Hwan¹, PARK Ju Young³, KIM Kee Hoon*^{1, 2} (¹Center for Novel States of Complex Materials Research, Department of Physics and Astronomy, Seoul National University, ²Institute of Applied Physics, Department of Physics and Astronomy, Seoul National University, ³New Energy Industry Intergrated Center, Green Energy Institute)

G8.03* [09:24 - 09:36]

Generic spin model on a pyrochlore lattice / SIM GiBaik, LEE SungBin* (Department of Physics, KAIST)

G8.04* [09:36 - 09:48]

Optical-Field-Induced Spin Switching in a Ferromagnetic Semiconductor / 김영재, 이재동* (Dept of emerging materials science, DGIST (대구경북과학기술원))

G8.05* [09:48 - 10:00]

Quantum Skyrmion Tunneling / 이상진¹, 한정훈*², 문은국*¹
(¹한국과학기술원 물리학과, ²성균관대학교 물리학과)

G8.06* [10:00 - 10:12]

Intrinsic spin orbit torque in antiferromagnets with dynamic noncollinerity / 천수익, 이현우* (포항공과대학교 물리학과)

G8.07* [10:12 - 10:24]

Ultrathin Ferromagnetic van der Waals Metal Fe₃GeTe₂ / AN EunSu, SEO JunHo, KIM JunSung* (Department of Physics, POSTECH)

G8.08* [10:24 - 10:36]

Magnetically-induced ferroelectricity in the S=1/2 staircase kagome compound PbCu₃TeO₇ / YOO Kyongjun¹, KOTESWARARAO Bommiseti Rao¹, KANG Jeonghun¹, NAM Woohyun¹, BALAKIREV Fedor², ZAPF Vivien², HATTISON Neil², KIM Kee Hoon*¹ (¹Center for Novel States of Complex Materials Research and Institute of Applied Physics, Department of Physics and Astronomy, Seoul National University, ²National High Magnetic Field Laboratory, Los Alamos National Laboratory)

G8.09* [10:36 - 10:48]

Giant anomalous Hall effect in two dimensional ferromagnetic metal Fe₃GeTe₂ / SEO Junho¹, OK Jong Mok¹, KIM Jae Nyeong², KIM Kyoo¹, YANG Bohm-Jung³, SHIM J. H.², MIN B. I.¹, KIM Jun Sung*¹ (¹Department of Physics, Pohang University of Science and Technology, ²Department of Chemistry, Pohang University of Science and Technology, ³Department of Physics and Astronomy, Seoul National University)

G8.10* [10:48 - 11:00]

All-optical control of spin-polarized charge currents in the unbiased bulk GaAs / 함선영¹, 박순희¹, 이현우², 김건우³, 이종석*¹
(¹광주과학기술원 물리광학과, ²포항공과대학교 물리학과, ³고등과학원 물리학부)

[G9-op] High power light sources

2017. 4. 21 Friday 09:00 – 10:36

Room: #201

좌장: 조 원 배 한국전자통신연구원

Chair: CHO Won Bae (ETRI)

G9.01(초) [09:00 - 09:24]

Development of a Compact Terahertz Free-electron Laser with a Variable-period Helical Undulator for a Security Inspection / MUN Jungho, JEONG Young Uk* (Center for Quantum-beam based radiation research, Korea Atomic Energy Research Institute)

G9,02 [09:24 - 09:36]

광매개처프펄스증폭 전치증폭기를 이용한 4 페타와트 레이저의 스펙트럼 변조 / 이황운^{*,1,2}, 김영규^{1,2}, 유제윤¹, 윤진우^{1,3}, 성재희^{1,3}, 이성구^{1,3}, 이창원^{1,3}, 양정문¹, 남창희^{1,2} (¹기초과학연구원 초강력 레이저 연구단, ²광주과학기술원 물리학과, ³광주과학기술원 고등광기술연구소)

G9,03 [09:36 - 09:48]

Temporal contrast improvement by spectral matching between seed pulse and ASE in a Ti:sapphire CPA laser system / KIM Minseok, KIM Jinju, PHUNG Vanessa Ling Jen, SUK Hyyong* (Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

G9,04* [09:48 - 10:00]

Terahertz Phonon Mode Engineering for Efficient THz Wave Generation / 강봉주¹, 김원태¹, 이승현², 권오필², 이상민^{*,1} (¹한국과학기술원 물리학과, ²아주대학교 분자과학기술학과)

G9,05* [10:00 - 10:12]

고출력 TEM₀₀ 모드 Q-스위칭 Nd:YVO₄ 레이저 시스템 / 김동준, 노승현, 김지원* (한양대학교 응용물리학과)

G9,06* [10:12 - 10:24]

편광된 광섬유 MOPA 펄스레이저의 펄스조건에 따른 비교 / 박은지, 김지원* (한양대학교 응용물리학과)

G9,07* [10:24 - 10:36]

Optical pulse measurements using tunneling ionization in a multi-cycle regime / CHO Wosik^{1,2}, KIM Kyung Taec^{*,1,2} (¹Dept. of Physics and photon Science, Gwangju Institute of Science and Technology, ²Center for Relativistic Laser Science, Institute for Basic Science)

[G10] No session

[G11-co] Nano-Mesoscopic Physics

2017. 4. 21 Friday 09:00 - 10:48

Room: #204

좌장: 정민경 대구경북과학기술원

Chair: JUNG Minkyung (DGIST)

G11,01* [09:00 - 09:12]

Two-Channel Charge Kondo effects in a Quadruple Dot / CHOI JuHo*, YOO Gwangsu, SIM H.-S. (Department of Physics, Korea Advanced Institute of Science and Technology)

G11.02* [09:12 - 09:24]

Semiclassical Boltzmann transport theory for multi-Weyl semimetals / PARK Sanghyun¹, WOO Seungchan¹, MELE Eugene J.², MIN Hongki*^{1,2} (¹Department of Physics and Astronomy, Seoul National University, ²Department of Physics and Astronomy, University of Pennsylvania)

G11.03* [09:24 - 09:36]

Optical conductivity of multi-Weyl semimetals / AHN Seongjin¹, MELE Eugene*², MIN Hongki*^{1,2} (¹Department of Physics and Astronomy, Seoul National University, ²Department of Physics and Astronomy, University of Pennsylvania)

G11.04* [09:36 - 09:48]

Unconventional current-phase relation in Al-Bi_{1.5}Sb_{0.5}Te_{1.7}Se_{1.3}-Al junctions / LEE Jae Hyeong¹, LEE Gil-Ho², KHO Byung Woo¹, KIM Jun Sung¹, LEE Hu-Jong*¹ (¹Department of Physics, Pohang University of Science and Technology, ²Department of Physics, Harvard University)

G11.05* [09:48 - 10:00]

Valley-symmetric conductance in bilayer graphene constrictions / LEE Hyunwoo¹, PARK Geon-Hyoung¹, WATANABE Kenji², TANIGUCHI Takashi², LEE Hu-Jong*¹ (¹Department of Physics, Pohang University of Science and Technology, ²Advanced Material Laboratory, National Institute for Material Science)

G11.06* [10:00 - 10:12]

WS₂-Black Phosphorous Van der Waals Heterojunction p-n Diode / DASTGEER Ghulam, KHAN Muhammad Farooq, NAZIR Ghazanfar, AFZAL Amir, AFTAB Sikandar, EOM Jonghwa* (Department of Physics and Astronomy, Sejong University)

G11.07* [10:12 - 10:24]

Localization of Dirac electrons in graphene with random potentials / KIM Seulong, KIM Kihong* (Department of Energy Systems Research, Ajou University)

G11.08* [10:24 - 10:36]

Development of MEMS gyroscope for detecting edge states of topological superfluid ³He-A / JEONG Jinhoon¹, BYUN HeeSu¹, KIM Kitak¹, KIM Sang Goon², SIM Seung-Bo², SUH Junho², CHOI Hyoungsoon*¹ (¹Department of Physics, KAIST, ²Korea Research Institute of Standards and Science)

G11.09* [10:36 - 10:48]

Probing Interaction among Two Fermi Liquids of Mixed

Dimensions with Electrons on Liquid ^3He - ^4He Mixture / 김기탁¹, IKEGAMI H.², SATO D.², KONO K.^{2, 3, 4}, MONARKHA Yu. P.⁵, 최형순*¹ (¹KAIST 물리학과, ²The Center for Emergent Matter Science, ³Institute of Physics, National Chiao Tung University, ⁴Institute of Physics, Kazan Federal University, ⁵ILTPE, National Academy of Sciences)

[G12-as] Astrophysics/theory and experiments

2017. 4. 21 Friday 09:00 – 10:24

Room: #205

좌장: 김 정 리 한국천문연구원

Chair: KIM Chunglee (KASI)

G12.01 [09:00 - 09:12]

Introduction to a Low Frequency Gravitational Wave Detector Project Using SQUID / KANG Gungwon*¹, PARK Chan¹, AHN Sang-Hyeon², BAE Yeong-Bok², KIM Chunglee², OH John J.³, OH Sang Hoon³, SON Edwin J.³, KIM Hwansun³ (¹KISTI, ²KASI, ³NIMS)

G12.02 [09:12 - 09:24]

Implementation of Machine Learning to Low-Latency Search for Gravitational-Waves from Compact Binary Mergers / KIM Kyungmin*¹, LI Tjonnie G. F.¹, SACHDEV Surabhi² (¹Department of Physics, The Chinese University of Hong Kong, ²Department of Physics, California Institute of Technology)

G12.03* [09:24 - 09:36]

Search for heavy Dark Matter Decay with the IceCube Neutrino Telescope / DUJMOVIC Hrvoje* (Sungkyunkwan University)

G12.04 [09:36 - 09:48]

Inference on the composition of ultra-high-energy cosmic rays in the southern galactic hemisphere from their arrival direction / KIM Jihyun*¹, KIM Hang Bae², RYU Dongsu¹ (¹Department of Physics, UNIST, ²Department of Physics, Hanyang University)

G12.05* [09:48 - 10:00]

남극에서 7번째 CREAM 실험인 BACCUS 미션에 관한 보고 / 최광호, 이해영, 홍기한, 이직, 박일흥* (Department of Physics, Sungkyunkwan University)

G12.06(초) [10:00 - 10:24]

Constraints on self-interacting ultra-light scalar dark matter / LEE Jae-Weon* (Department of renewable energy, Jungwon university)

[G13] No session

[G14-pa] Particle Physics EXP: NoAcc-based I

2017. 4. 21 Friday 09:00 – 10:48

Room: #209

좌장: 이 현 수 기초과학연구원

Chair: LEE Hyun Su (IBS)

G14.01 [09:00 - 09:12]

Rectangular cavity study for the CAST-CAPP/IBS experiment / KIM Mi Ran* (Center for Axion and Precision Physics Research/ Institute for Basic Science)

G14.02 [09:12 - 09:24]

Ultra-cold axion search experiment at CAPP/IBS / LEE Doyu^{*1, 2} (¹Department of physics / KAIST, ²Center for Axion and Precision Physics research(CAPP) / IBS)

G14.03* [09:24 - 09:36]

Measurement of a muon flux at the Yangyang Underground Laboratory / PRIHTIADI Hafizh* (Department of Physics, Bandung Institute of Technology)

G14.04 [09:36 - 09:48]

Status of the COSINE-100 experiment / 김경원* (기초과학연구원 지하실험연구단)

G14.05* [09:48 - 10:00]

Internal Contamination level Measurement of CaMoO₄ Crystal in the Y2L. / LEE J.Y, KIM H.J.* (Kyungpook National University)

G14.06* [10:00 - 10:12]

Measurement of magnetoresistance in copper at high frequency and high magnetic field / AHN Saebyeok^{1, 2}, AHN Moohyun², JEONG Junu^{1, 2}, KIM Donglak², KIM Jaemin³, KIM Jongkuk^{1, 2}, LEE Jiyoung², SEMERTZIDIS Yannis K.^{1, 2}, SHIN Kang Whan³, YOO Jonghee^{1, 2}, YOON Sangwon³, YOUN Sungwoo^{*2} (¹SuNAM Co., Ltd., ²Department of Physics, KAIST, ³Center for Axion and Precision Physics Research(CAPP), Institute for Basic Science(IBS))

G14.07 [10:12 - 10:24]

Trigger study on AMoRE-pilot detector / 김인욱^{1, 2}, 김용함^{*2} (¹Seoul National University, ²Institute for Basic Science)

G14,08* [10:24 - 10:36]

The simulation of AMoRE-Pilot / 하대훈¹, 김홍주^{*1}, On behalf of AMoRE Collaboration² (¹경북대학교 물리학과, ²AMoRE)

G14,09 [10:36 - 10:48]

Status of AMoRE-Pilot / JO Hyon-Suk* (Center for Underground Physics, Institute for Basic Science)

SESSION H

2017 April 21(Fri) 11:00–12:48

[H1-nu] Relativistic Heavy Ion Collisions II & Nuclear Reaction II

2017. 4. 21 Friday 11:00 – 12:36

Room: #101

좌장 : 권민정 인하대학교

Chair: KWEON Min Jung (Inha Univ.)

H1.01 [11:00 - 11:12]

Measurement of b-jet production via track impact parameter in p-Pb collisions at $\sqrt{s} = 5.02$ TeV with ALICE at the LHC / KIM Minjung*, KWEON MinJung, YOON Jin-Hee (Department of Physics, Inha University)

H1.02 [11:12 - 11:24]

Recent results for the measurements of bottom flavored meson and jet in PbPb collisions with CMS / KIM Hyunchul*, MOON Dongho (Department of physics, Chonnam National University)

H1.03 [11:24 - 11:36]

Status of measurement of electrons from beauty-hadron decays in ALICE at the LHC / 권지연*, 권민정 (인하대학교 물리학과)

H1.04 [11:36 - 11:48]

Production of exotic hadrons in heavy ion collisions / CHO Sungtae*, LEE Su Houn² (¹Kangwon National University, ²Yonsei University)

H1.05 [11:48 - 12:00]

Charged particle multiplicity and Transverse energy distribution using Weibull-Glauber approach in Heavy-Ion collisions / BEHERA Nirbhay Kumar* (Department of Physics, Inha University)

H1.06 [12:00 - 12:12]

Dynamical Approach to Syntheses of Superheavy Nuclei / 이정연^{*1}, 김영만¹, ARITOMO Yoshihiro² (¹Rare Isotope Science Project, Institute for Basic Science, ²Department of Electric and Electronic Engineering, Kindai University)

H1.07 [12:12 - 12:24]

Contribution of transfer reaction in fusion reaction of $^{11}\text{Li} + ^{208}\text{Pb}$ system / CHOI Ki-Seok^{*1}, CHEOUN Myung-Ki¹, SO W. Y.², HAGINO K.³, KIM K. S.⁴ (¹Department of Physics, Soongsil University, ²Department of Radiological Science, Kangwon National University at Dogye, ³Department of Physics, Tohoku University, ⁴School of Liberal Arts and Science, Korea Aerospace University)

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H1,08 [12:24 - 12:36]

The study of α scattering phase shift using the SS-HORSE approach / 문명환^{*1}, 김형일¹, 이영욱¹, 신익재² (¹한국원자력연구원, ²중이온가속기건설구축사업단)

[H2-Se] Semiconductor Applications

2017. 4. 21 Friday 11:00 – 12:12

Room: #102

좌장: 정 문 석 성균관대학교

Chair: JEONG Mun Seok (Sungkyunkwan Univ.)

H2,01* [11:00 - 11:12]

Role of quantum capacitance and interface state in graphene-silicon heterostructure devices / 박흥기, 최재우* (경희대학교 정보디스플레이)

H2,02 [11:12 - 11:24]

반도체 단일양자점의 집광효율 증가를 위한 metal/dielectric coated truncated conical structure / 백중서^{*1}, DEVARAJ Vasanthan¹, 장유동¹, 안대현¹, 안현주¹, 송진동², 이창민³, 이용희³, 이동한^{*1} (¹한국과학기술원 물리학과, ²충남대학교 물리학과, ³한국과학기술연구원 광전소재연구단)

H2,03* [11:24 - 11:36]

Fabrication and characteristics of rare-earth free vanadate phosphor-based WLEDs / LANKAMSETTY Krishna Bharat, YU Jae Su* (Department of Electronics and Radio Engineering, Kyung Hee University)

H2,04* [11:36 - 11:48]

Effect of local structural change on phase-change properties in IV-V-VI group chalcogenide materials / 안민, 정훈, 한정화, 양원준, 김다솔, 조만호* (연세대학교 물리학과)

H2,05* [11:48 - 12:00]

Polymer Passivation of Methylammonium Lead Trihalide Perovskites / 김효정^{1, 2}, 변혜령^{1, 2}, 김보라¹, 김성혁¹, 오혜민¹, 정문석^{*1, 2} (¹성균관대학교 에너지과학과, ²기초과학연구원 나노구조물리연구단)

H2,06* [12:00 - 12:12]

Fast crystallization of bandgap modulated organic lead halide perovskite single crystals / 박대영, 정문석* (성균관대학교 에너지과학과)

[H3-ap] Organic Electronics & Biophysics

2017. 4. 21 Friday 11:00 – 12:24

Room: #103

좌장: 서 정 화 동아대학교

Chair: SEO Junghwa (Dong-A Univ.)

H3.01 [11:00 - 11:12]

Charge transporting characteristics of DPP based ambipolar transistors and their application for electronic circuits / LEE Jiyoul* (Department of Graphic Arts Information Engineering, Pukyong National University)

H3.02* [11:12 - 11:24]

A computational study of molecular orientation and charge transport in vapor-deposited organic films. / YOO Dongsun*, YOUN Yong, SONG Hochul, HAN Seungwu (Department of Materials Science and Engineering, Seoul National University)

H3.03 [11:24 - 11:36]

Organic molecular epsilon-near-zero ultrathin film: toward enhanced nonlinear optical response in visible spectral range / LEE Yeon Ui*¹, KIM Hyo Jung², RIBIERRE Jean-Charles¹, JUN Young Chul³, KAMADA Kenji⁴, WU Jeong Weon¹, D'Aléo Anthony^{1,5} (¹Department of Physics, Quantum Metamaterial Research Center, Ewha Womans University, ²Department of Organic Materials Science and Engineering, Pusan National University, ³Department of Materials Science and Engineering, Ulsan National Institute of Science and Technology, ⁴National Institute of Advanced Industrial Science and Technology, Ikeda, ⁵Aix Marseille University, CNRS)

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H3.04 [11:36 - 11:48]

Tunable optical response of a graphene on silica with randomly distributed metal nanoparticles / LEE Chang-Won* (Hanbat National University)

H3.05* [11:48 - 12:00]

Single-mode distributed feedback lasers using a 25 nm thick discretized TiO₂ film for arbitrary gain morphology / UMAR Muhammad¹, MIN Kyungtaek¹, JEON Heonsu³, KIM Sunghwan*^{1,2} (¹Department of Energy Systems Research, Ajou University, ²Department of Physics, Ajou University, ³Department of Physics and Astronomy, Seoul National University)

H3.06* [12:00 - 12:12]

Size-dependent inertial focusing positions in triangular channels and particle separation / KIM Jeong-ah¹, LEE Je-Ryung², JEON Eun-chae², LEE Wonhee*¹ (¹Korea Advanced Institute of Science and Technology, ²Korea Institute of Machinery & Materials)

H3.07* [12:12 - 12:24]

Tunable inertial focusing and separation in co-flow systems / LEE Dongwoo, LEE Wonhee* (Graduate school of Nanoscience and Technology,

[H4-ap] Photonics and optoelectronics

2017. 4. 21 Friday 11:00 – 12:12

Room: #104

좌장: 김 근 수 연세대학교

Chair: KIM Keun Su (Yonsei Univ.)

H4.01(초) [11:00 - 11:24]

Selective enhancement of optical nonlinearity in two-dimensional organic-inorganic lead iodide perovskites / JANG Joon Ik* (Department of Physics, Sogang University)

H4.02 [11:24 - 11:36]

Submillisecond electro-optic response in polymer/cholesteric liquid crystal nanocomposites / KIM Hoekyung*^{1,2}, YOSHIDA Hiroyuki², OZAKI Masanori² (¹ICT Device Packaging Research Center, Korea Electronics Technology Institute, ²Division of Electrical, Electronic and Information Engineering, Osaka University)

H4.03 [11:36 - 11:48]

Reconfigurable exciton-plasmon interconversion for nanophotonic circuits based on 2D semiconductors / LEE Hyun Seok* (Center for Integrated Nanostructure Physics (CINAP), Institute for Basic Science (IBS), Sungkyunkwan University)

H4.04 [11:48 - 12:00]

Diffraction order and directionality control by an array of metal slots / LEE Chang-Won* (Hanbat National University)

H4.05* [12:00 - 12:12]

Characteristics of temperature sensitivities of few-mode microfiber knot resonators near dispersion turning point / ANH DUY Duong Le, HAN Young-Geun* (Department of Physics, Hanyang University)

[H5-pl] Plasma instruments, processing & application / Basic plasma phenomena

2017. 4. 21 Friday 11:00 – 12:48

Room: #105

좌장: 조 병 익 광주과학기술원

Chair: CHO Byoung Ick (GIST)

H5.01(초) [11:00 - 11:24]

Plasma density measurements by using the terahertz time-domain spectroscopy / JANG Dogeun¹, KANG Keenkon¹, JANG Donggyu¹, UHM Hansup², SUK Hyyong*¹ (¹Department of Physics and Photon Science,

H5.02* [11:24 - 11:36]

In situ impedance measurement of microwave atmospheric pressure plasma / LEE Seungtaek¹, NAM Woojin¹, LEE Jae Koo², YUN Gunsu^{*1,2} (¹Department of Physics, POSTECH, ²Division of Advanced Nuclear Engineering POSTECH)

H5.03 [11:36 - 11:48]

웨어러블 유연 플라즈마 전극 개발과 화학작용제 제독 / 정희수*, 서진아, 최승기 (국방과학연구소)

H5.04(초) [11:48 - 12:12]

Suggestion of resolution change model in PIC code / CHO MyungHoon* (Center for Relativistic Laser Science, Institute for Basic Science (IBS))

H5.05 [12:12 - 12:24]

Effects of thickness on the reflectance and the ponderomotive force in the laser-plasma interaction via slab-like density distributions / KANG Teyoun, KIM Young-Kuk, HUR Min Sup* (Department of Physics, UNIST)

H5.06 [12:24 - 12:36]

Bullet-to-streamer transition on the liquid surface of a plasma jet in atmospheric pressure / YOON Sung-Young¹, KIM Gon-Ho², RYU Seungmin¹, YOO Suk Jae¹, KIM Seong Bong^{*1}, KIM Nam-kyun¹ (¹National Fusion Research Institute, ²Seoul National University)

H5.07* [12:36 - 12:48]

Fast rise and fall of electron temperature in pulsed microwave atmospheric micro-plasma / LEE Min Uk, LEE Jae Koo*, YUN Gunsu S* (Division of Advanced Nuclear Engineering, Pohang University of Science and Technology)

[H6-co] Strongly correlated systems III

2017. 4. 21 Friday 11:00 – 12:24

Room: #106

좌장: 김 기 석 포항공과대학교

Chair: KIM Ki Seok (POSTECH)

H6.01 [11:00 - 11:12]

The Tomonaga-Luttinger Liquid with Quantum Impurity Revisited / LEE Taejin* (Department of Physics, Kangwon National University)

H6,02 [11:12 - 11:24]

Resonating Valence Bond States with Trimer Motifs / 이현웅^{1,2}, 오윤택^{*1}, KATSURA Hosho³, 한정훈¹ (¹성균관대학교 물리학과, ²ISSP, The University of Tokyo, ³The University of Tokyo)

H6,03 [11:24 - 11:36]

Rotational symmetry breaking and topological phase transition in the exciton-polariton condensate of gapped 2D Dirac material / LEE Ki Hoon^{1,2}, LEE Changhee², MIN Hongki², CHUNG Suk Bum^{*1,2} (¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, Seoul National University)

H6,04 [11:36 - 11:48]

Effect of interactions in the Hofstadter regime of the honeycomb lattice in presence and absence of spin orbit coupling / MISHRA Archana, LEE SungBin^{*} (Department of Physics, KAIST)

H6,05 [11:48 - 12:00]

Quantum Coulomb Glass: Anderson localization in an interacting system / LEE Hyun-Jung^{*}, KIM Ki-Seok (Department of Physics, POSTECH)

H6,06(초) [12:00 - 12:24]

Spontaneous magnetization of the Majorana edge state in 2D time-reversal invariant topological superconductor / 정석범^{*1,2}, MACIEJKO Joseph³ (¹서울대학교 물리학과, ²IBS Center for Correlated Electron Systems, ³Department of Physics, University of Alberta)

[H7-co] Surface/Interface/Nanomaterial II

2017. 4. 21 Friday 11:00 – 12:24

Room: #107

좌장: 전 철 호 한국기초과학지원연구원

Chair: JEON Cheol Ho (KBSI)

H7,01^{*} [11:00 - 11:12]

Photofluidic near-field mapping of superspherical gold nanoparticle / KIM Minwoo¹, LEE Joohyun¹, WOO Hwi Je¹, YI Gi-Ra², LEE Seungwoo^{1,2}, SONG Young Jae^{*1,3} (¹SKKU Advanced Institute of Nano Technology (SAINT), Sungkyunkwan University, ²School of Chemical Engineering, Sungkyunkwan University (SKKU), ³Department of Physics, Sungkyunkwan University)

H7,02 [11:12 - 11:24]

Atomic Models for Stable Ligand-Surface Coordination in IV-VI, II-VI, and III-V Colloidal Quantum Dots / KO Jae-Hyeon, YOO Dongsuk, KIM Yong-Hyun^{*} (Graduate School of Nanoscience and Technology, KAIST)

H7.03* [11:24 - 11:36]

Localized surface plasmon-enhanced emission from red phosphor with Au-SiO₂ nanoparticles / 박현선^{1, 2}, 김민우¹, 조유현^{1, 2}, 김자연², 안태정¹, 권민기*¹ (¹조선대학교 광기술공학과, ²한국광기술원 LED융합연구센터)

H7.04 [11:36 - 11:48]

Investigation of interfaces of mixed-dimensional (2D-MoS₂/3D-GaN) heterostructures / SUNG Dongchul, HONG Suklyun* (Graphene Research Institute and Department of Physics, Sejong University)

H7.05* [11:48 - 12:00]

Origin of Tunable Band Gap in Potassium Doped Few-Layer Black Phosphorous / KIM Sun-Woo¹, JUNG Hyun¹, KIM Hyun-Jung², CHOI Jin-Ho³, CHO Jun-Hyung*¹ (¹Department of Physics, Hanyang University, ²Korea Institute for Advanced Study, ³Research Institute of Mechanical Technology, Pusan National University)

H7.06* [12:00 - 12:12]

X-ray microscopic observations of the Cassie-Wenzel transition / 임수진¹, 김예슬¹, 정수연², 방창현², 원병목*¹ (¹성균관대학교 신소재공학부 및 나노과학기술학과, ²성균관대학교 화학공학부)

H7.07* [12:12 - 12:24]

Atomic and Electronic Structures of Graphitic Carbon Nitride Monolayers on HOPG / PARK Sangwoo, JEONG Taehwan, KANG Hyun Min, SONG Young Jae* (Sungkyunkwan Advanced Institute of Nano Technology)

[H8-co] Computational condensed matter physics III

2017. 4. 21 Friday 11:00 - 12:48

Room: #108

좌장: 장 현 주 한국화학연구원

Chair: CHANG Hyunju (KRICT)

H8.01(초) [11:00 - 11:24]

Excited State Dynamics in Non-Radiative Recombination Processes / 방준혁* (한국기초과학지원연구원 스핀공학물리연구팀)

H8.02* [11:24 - 11:36]

Pressure-induced transition pathway from α -B to γ -B / HAN Woohyun*¹, KIM Sunghyun¹, LEE In-Ho², CHANG Keejoo¹ (¹Department of Physics, Korea Advanced Institute of Science and Technology, ²Korea Research Institute of Standards and Science)

H8.03* [11:36 - 11:48]

Vacancy and substitution dependent electronic and magnetic

properties of monolayer SnS_2 / ULLAH Hamid, SHIN Young Han*
(Department of Physics, University of Ulsan)

H8.04* [11:48 - 12:00]

A new carbon allotrope with a topological nodal line in mixed $\text{sp}^2\text{-sp}^3$ bonding networks / 성하준¹, 김성현¹, 이인호², 장기주*¹ (¹Korea Advanced Institute of Science and Technology, ²Korea Research Institute of Standards and Science)

H8.05* [12:00 - 12:12]

Superionic and electronic conductivity in monolayer W_2C / SAMAD Abdus, SHIN Young-Han* (Department of Physics, University of Ulsan)

H8.06* [12:12 - 12:24]

Atomistic study of charge trapping mechanisms in silicon nitride / 전세라, 이재광* (부산대학교 물리학과)

H8.07* [12:24 - 12:36]

Giant Rashba effect without an electric field / 홍지숙¹, 송인경², 김창영³, 박승룡*⁴, 심지훈*⁵ (¹포항공과대학교 화학과, ²IBS 강상관계 물질 연구단, ³IBS 강상관계 물질 연구단, ⁴인천대학교 물리학과, ⁵포항공과대학교 화학과)

H8.08* [12:36 - 12:48]

Design of high-coercivity $\text{Fe}_{16-x}\text{Al}_x\text{N}_2$ alloy / BYUN Jinho, MIN Taewon, PARK Sungkyun, LEE Jaekwang* (부산대학교 물리학과)

[H9-op] Vision and medical optics

2017. 4. 21 Friday 11:00 – 12:24

Room: #201

좌장: 김 지 원 한양대학교

Chair: KIM Ji Won (Hanyang Univ.)

H9.01(초) [11:00 - 11:24]

Dual modality breast imaging system: combination digital breast tomosynthesis and diffuse optical tomography / HEO Duchang*¹, KIM Kee-Hyun¹, BAE Young-Min¹, CHOI Young-Wook¹, SABIR Sohail², YE Jong Chul², CHO Seungryong² (¹Korea Electrotechnology Research Institute, ²Korea Advanced Institute of Science and Technology)

H9.02(초) [11:24 - 11:48]

An Innovative Approach to Diffuse Optical Spectroscopy and Imaging for Smart Healthcare Platforms (Invited) / KIM Sehwan*^{1, 2, 3}, LEE Minseok^{1, 2, 3}, JEONG Bobae^{1, 2, 3}, JUN Seunghyeok^{1, 2}, LEE Wonki^{1, 2} (¹Department of Biomedical Engineering, College of Medicine, Dankook University, ²Department of Medical Laser, Graduate School, Dankook University,

³Beckman Laser Institute Korea, Dankook University)

H9.03 [11:48 - 12:00]

Continuous-wave (CW) Near-infrared (NIR) Techniques for a Handheld Tissue Monitoring System / LEE Minseok^{1, 2, 3}, JEONG Bobae^{1, 2, 3}, JUN Seunghyeok^{1, 2}, LEE Wonki^{1, 2}, KIM Sehwan^{*1, 2, 3} (¹Department of Biomedical Engineering, College of Medicine, Dankook University, ²Department of Medical Laser, Graduate School, Dankook University, ³Beckman Laser Institute Korea, Dankook University)

H9.04 [12:00 - 12:12]

Stable optical manipulation of arbitrarily shaped particles using 3-D refractive index distribution measurements / 김규현¹, 박용근^{*1, 2}
(¹한국과학기술원 물리학과, ²(주) 토모큐브)

H9.05 [12:12 - 12:24]

Digital 3D holographic display with extended viewing angle and image size by actively controlling volume speckle fields / YU Hyeonseung, LEE KyeoReh, PARK Jongchan, PARK YongKeun* (Department of Physics, KAIST)

[H10 - H11] No session

[H12-as] Astrophysics/experiments and observations

2017. 4. 21 Friday 11:00 - 12:24

Room: #205

좌장: 이 창 환 부산대학교

Chair: LEE Chang Hwan (Pusan National Univ.)

H12.01* [11:00 - 11:12]

The performance of ISS-CREAM SCD sensors In charge measurement with high energy ion beam / HONG GiHan, CHOI GwangHo, LEE Hye Young, LEE Jik, PARK Il Hung* (Department of Physics, SungKyunKwan University)

H12.02* [11:12 - 11:24]

Electron and Proton Separation Study Using the Top and Bottom Counting Detectors of ISS-CREAM Experiment / KANG Sinchul¹, KIM Hongjoo^{*1}, PARK H.¹, JEON H.B.¹, HYUN H.J.², HWANG Y.S.³, PARK J.M.³
(¹Kyungpook National University, ²Pohang Acceleration Laboratory, ³KAERI)

H12.03 [11:24 - 11:36]

UFFO/Lomonosov status in Space / JEONG Soomin¹, PARK I. H.*²

(¹SungKyunKwan University Suwon, Korea & IAA-CSIC, Granada, Spain,
²SungKyunKwan University)

H12,04* [11:36 - 11:48]

The status and capability of UFFO Burst Alert and Trigger telescope (UBAT) in space / KIM Minbin, JEONG Hyomin, JEONG Soomin, LEONOV Vladimir, LEE Jik, PARK I.H.* (Department of Physics, Sungkyunkwan University)

H12,05* [11:48 - 12:00]

Effects of cosmic rays on UFFO Burst Alert & Trigger telescope (UBAT) / JEONG Hyomin, KIM Minbin, GAYKOV Georgii, GUTUMURTHY Vikas Agaradahalli, LEONOV Vladimir, JEPPESEN Soren, JEONG Soomin, LEE Jik, PARK I.H.* (Department of Physics, Sungkyunkwan University)

H12,06* [12:00 - 12:12]

The status of Slewing Mirror Telescope on orbit, challenge and solution. / AGARADAHALLI GURUMURTHY Vikas, JEONG Soomin, GAIKOV Georgii, KIM Minbin, JEONG Hyomin, PARK I.H.* (Department of Physics, Sungkyunkwan University)

H12,07 [12:12 - 12:24]

Correct Estimations on Two Geophysical Phenomena / NA Sung-Ho*¹ (¹Ajou University, ²University of Science and Technology)

[H13] No session

[H14-pa] Particle Physics EXP: NoAcc-based II

2017. 4. 21 Friday 11:00 – 12:48

Room: #209

좌장: 주경광 전남대학교

Chair: JOO Kyung Kwang (Chonnam National Univ.)

H14,01 [11:00 - 11:12]

Development of a GEANT4 based simulation for the COSINE-100 experiment / 김경원* (기초과학연구원 지하실험연구단)

H14,02 [11:12 - 11:24]

NaI(Tl) crystal encapsulation with liquid scintillator / LEE Jooyoung¹, KIM Namyoung*² (¹Kyungpook National University, ²Institute of Basic Science)

H14,03 [11:24 - 11:36]

Surface alpha measurements in a high-sensitivity alpha counter

at Yangyang underground laboratory / 하창현* (기초과학연구원 지하실험연구단)

H14.04 [11:36 - 11:48]

An array of ultra low background HPGe detectors at the Yangyang underground laboratory (Y2L): Construction and Simulation / SALA Elena¹, KANG Woongu¹, KIM Gwoon², PARK Suyeon², HAHN Insik², KIM Yeongduk^{1,3}, LEE Eunkyung¹, LEE Moo Hyun*¹, LEONARD Douglas S¹ (¹Center for Underground Physics, Institute for Basic Science, ²Ewha Womans University, ³Department of Physics and Astronomy, Sejong University)

H14.05* [11:48 - 12:00]

Theta13 measurement of using neutron captures on hydrogen at RENO / 신창동¹, 주경광*¹, 김승찬¹, 김재률¹, 문동호¹, 박경환¹, 박영서¹, 여인성¹, 임인택¹, 김우영², 박성우², Serguey², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 권은향⁶, 김상용⁶, 김수봉⁶, 서선희⁶, 서현관⁶, 양정열⁶, 이동하⁶, 이용창⁶, 이현기⁶, 김종건⁷, 김종현⁷, 양낙영⁷, 유인태⁷, 전상훈⁷, ROTT Carsten⁷ (1전남대학교, ²경북대학교, ³광주과학기술원, ⁴동신대학교, ⁵서영대학교, ⁶서울대학교, ⁷성균관대학교)

H14.06 [12:00 - 12:12]

New results from RENO / 김우영¹, 박성우¹, SERGUEY¹, 장지승², 박명렬³, 최준호³, 장한일⁴, 권은향⁵, 김상용⁵, 김수봉⁵, 서선희⁵, 서현관⁵, 양정열⁵, 이동하⁵, 이용창⁵, 이현기⁵, 김종건⁶, 김종현⁶, 양낙영⁶, 유인태⁶, 전상훈⁶, ROTT Carsten⁶, 김승찬⁷, 김재률⁷, 문동호⁷, 박경환⁷, 박영서⁷, 신창동⁷, 여인성⁷, 임인택⁷, 주경광⁷ (¹동신대학교, ²서영대학교, ³서울대학교, ⁴성균관대학교, ⁵전남대학교, ⁶경북대학교, ⁷광주과학기술원)

H14.07* [12:12 - 12:24]

Efforts on background reduction for reactor antineutrino detection at RENO / 김우영¹, 장지승², 박명렬³, 최준호³, 장한일⁴, 권은향⁵, 김상용⁵, 김수봉⁵, 서선희⁵, 서현관⁵, 양정열⁵, 이동하⁵, 이용창⁵, 이현기⁵, 유인태⁶, ROTT Carsten⁶, 김재률⁷, 문동호⁷, 신창동⁷, 여인성⁷, 임인택⁷, 주경광⁷ (¹경북대학교, ²광주과학기술원, ³동신대학교, ⁴서영대학교, ⁵서울대학교, ⁶성균관대학교, ⁷전남대학교)

H14.08 [12:24 - 12:36]

Korean Neutrino Observatory and Neutrino Science / KIM Wooyoung¹, SON Dongcheol¹, KIM Donghee¹, OH Youngdo¹, JANG Jeeseung², PAC Myoung Youl³, CHOI Juneho³, JANG Hanil⁴, KWON Eunhyang⁵, KIM Sangyong⁵, KIM Soo-Bong⁵, SEO Seon-Hee*⁵, SEO Hyunkwan⁵, KANG Shingyu⁹, KIM Jonghyun⁶, YU Intae⁶, JEON Sanghoon⁶, ROTT Carsten⁶, PARK Seongchan⁷, KIM Jaeyool⁸, MOON Dongho⁸, LIM Intaek⁸, JOO Kyungkwang⁸ (¹Department of Physics, Kyungpook National University, ²GIST College, Gwangju Institute of Science and Technology, ³Department of Radiology, Dongshin University, ⁴Department of Fire Safety, Seoyeong University, ⁵Department of Physics and Astronomy, Seoul National University, ⁶Department of Physics,

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Sungkyunkwan University, ⁷Department of Physics, Yonsei University, ⁸Department of Physics, Chonnam National University, ⁹Department of Physics, Seoul National University of Science and Technology)

H14.09 [12:36 - 12:48]

Result of the NEOS experiment / OH Yoomin^{*1}, KO YoungJu², KIM BaRo⁵, KIM JinYu³, HAN BoYoung⁴, JANG ChangHwan², JEON EunJu¹, JOO KyungKwang⁵, KIM HongJoo⁶, KIM HyunSoo³, KIM YeongDuk^{1, 3, 7}, LEE Jaision¹, LEE JooYoung⁶, LEE MooHyun¹, PARK HyangKyu^{1, 7}, PARK HyeonSeo⁸, SEO KyungMin³, KIM Siyeon², SUN GwangMin⁴, PARK KangSoon¹ (¹Center for Underground Physics, Institute for Basic Science, ²Department of Physics, Chung-Ang University, ³Department of Physics and Astronomy, Sejong University, ⁴Neutron Science Division, Korea Atomic Energy Research Institute, ⁵Department of Physics, Chonnam National University, ⁶Department of Physics, Kyungpook National University, ⁷University of Science and Technology, ⁸Korea Research Institute of Standards and Science)

[T1-bp] Tutorial: Bayesian approach to data analysis

2017. 4. 19 Wednesday 17:00 – 17:36

Room: #204

좌장: 이 종 봉 포항공과대학교

Chair: LEE Jong-Bong (POSTECH)

T1.01(초) [17:00 - 17:36]

과학 데이터의 베이지안 해석 / 조정효* (아시아태평양 이론물리센터)

[T2-Se] Tutorial: Energy harvesting technology

2017. 4. 20 Thursday 11:00 – 13:00

Room: #102

좌장: 장 문 규 한림대학교

Chair: JANG Moon Gyu (Hallym Univ.)

T2.01(초) [11:00 - 12:00]

Triboelectric Energy Harvester / CHOI Yang-Kyu* (Department of Electrical Engineering, KAIST)

T2.02(초) [12:00 - 13:00]

박막 태양전지의 종류와 기술별 특성 / 윤선진* (한국전자통신연구원 ICT소재부품연구소)

[T3-ap] Tutorial: Dielectric physics approach for analyzing molecular films and organic devices

2017. 4. 20 Thursday 11:00 – 11:36

Room: #103

좌장: 임 은 주 단국대학교

Chair: LIM Eun Ju (Dankook Univ.)

T3.01(초) [11:00 - 11:36]

Dielectric Physics Approach for Analyzing Molecular films and Organic Devices: Maxwell's Displacement Current and Electric field Optical Second harmonic Generation / IWAMOTO Mitsumasa*
(School of Engineering, Tokyo Institute of Technology)

[W15-or] The Frontiers of Physics

2017. 4. 20 Thursday 18:00 ~ 20:00

Room: #301

좌장: 백 승 원 고등과학원

Chair : BAEK Seungwon (KIAS)

W15.01 [18:00 - 18:50]

물리학으로 보는 인간, 그리고 사회 / 김범준 (성균관대)

W15.02 [19:00 - 19:50]

물리, 위상수학을 만나다 / 박권 (KIAS)

[Y1-Or] KPS-KIAS Plenary session

2017. 4. 20 Thursday 13:00-13:48

Room: #301

좌장: 박 권 고등과학원

Chair : PARK Kwon (KIAS)

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Y1.01 (초) [13:00-13:48]

Composite fermions and fractional quantum Hall effect: The magical beauty of emergence / JAIN Jainendra K. (Department of Physics, The Pennsylvania State University)

The Korean Physical Society

포스터발표논문 시간표

Poster session schedule

 Hanging posters: 2017. 04. 19 Wednesday 13:00 – 04. 20 Thursday 12:00

Presentation: 2017. 04. 19 Wednesday 18:00 - 19:30

Place: Exhibition Hall

P1-ap.101

Few-Layer ReSe₂ Nanosheet FET device on SrTiO₃ Epitaxial Thin Film / PARK Baeho*, SHIN Minjung, OH Dayea, OH Gwangtaek, JEON Jihoon (Department of Physics, Konkuk University, Division of Quantum Phases and Devices, Oxide Thin Film Device Laboratory)

P1-ap.102

Field-effect Transistor Based On Graphene / WSe₂ Heterostructures / 이민주¹, 최진식², 양상윤³, 정대율³, 최성율³, 남정태⁴, 김근수⁴, 박배호*¹ (¹Center for 2+ hybrid dimesional devices, Konkuk University, ²Department of Physics, Konkuk University, ³Deapment of Electrical Engineering, KAIST, ⁴Department of Physics and Graphene Research Institute, Sejong University)

P1-ap.103

Residue-free MoS₂ thin films by liquid exfoliation method and photovoltaic device application / LEE Seung Kyo, CHU Dongil, KIM Eun Kyu* (Department of Physics, Hanyang University)

P1-ap.104*

Gate-Tunable 2D Memristor Devices Based on Monolithically-Integrated Vertical Heterojunctions / HUH Woong¹, JANG Seong-Hun¹, LEE Jae Yoon¹, JEONG Hu Young², WANG Gunuk*¹, LEE Chul-Ho*¹ (¹KU-KIST Graduate School of Converging Science and Technology, Korea University, ²Ulsan National Institute of Science and Technology, UNIST)

P1-ap.105*

Wafer-Scale and Uniform Growth of Monolayer Transition Metal Dichalcogenides by Metal-Organic Chemical Vapor Deposition / KANG Hee Seong, LEE Chul-Ho* (KU-KIST Graduate School of Converging Science and Technology, Korea University)

P1-ap.106*

Fabrication and properties of rolled MoS₂ / 나정현¹, 엄태우¹, 김성원¹, 최수호², 양우철², 장성호*¹ (¹건국대학교 물리학과, ²동국대학교 물리학과)

P1-ap.107*

Contact Resistance of WS₂, Depending on a Number of Layers / 정내봉, 박도현, 이홍준, 이준호, 정현종* (건국대학교 물리학과)

P1-ap.108*

Van-der-Waals-gap tunneling spectroscopy for 2D transition metal dichalcogenides / CHOI DongHwan^{1, 2}, KIM Woosin¹, BAE MyungHo², KIM JuJin*¹ (¹Department of Physics, chonbuk national university, ²Korea Research Institute of Standards and Science)

P1-ap.109*

Resonance Raman studies of few-layer MoS₂ under external electric field / KIM Kangwon¹, LEE Jae-Ung¹, KIM Minjung¹, LEE Mi Jung², KIM Hakseong², LEE Sang Wook³, PARK Bae Ho², CHEONG Hyeonsik*¹ (¹Department of Physics, Sogang University, ²Division of Quantum Phases and Devices, Department of Physics, Konkuk University, ³Department of Physics, Ewha Woman Unveristy)

P1-ap.110*

Raman measurements depending on stacking order in 2D Gallium Selenide / LIM Soo Yeon¹, LEE Jae-Ung¹, CHEONG Hyeonsik*¹, KIM Jung Hwa², LEE Zonghoon², NGUYEN Thi Thanh Huong³, CHO Sunglae³ (¹Department of Physics, Sogang University, ²Department of Materials science and engineering, UNIST, ³Department of Physics and Energy Harvest Storage Research Center, University of Ulsan)

P1-ap.111*

Photoluminescence Imaging Study on monolayer WS₂ / 권용재, 정현식*, 이재웅 (서강대학교 물리학과)

P1-ap.112*

Carbon Nanotube/MoS₂ hybrids: Synthesis and characterization / NGUYEN Tu Van, YIM Woongbin, PARK Jiyong* (Department of Energy systems research)

P1-ap.113*

Davydov splitting in Raman spectra of 2H- and 3R-MoS₂ / 나웅기, 이재웅, 김강원, 정현식* (서강대학교 물리학과)

P1-ap.114*

Raman Measurements on Few-Layer 2H-SnS₂ / SRIV Tharith, LEE Jae-Ung, KIM Kangwon, CHEONG Hyeonsik* (Department of Physics, Sogang University)

P1-ap.115*

기판과 2차원 나노물질의 상호 작용에 의한 크랙 형성 연구 / 박재우, 윤새아나, 임웅빈, Nguyen Van Tu, 채관병, 이순일, 안영환, 박지용* (아주대학교 에너지시스템학과)

P1-ap.116*

Degradation mechanisms of black phosphorus on various substrates / YOON Jun-Yeong¹, CHOI Byung Doo², LEE Yangjin¹, SEO JinHwi¹, JEONG Hu Young³, KIM Myung-Gil², KIM Kwanpyo*¹ (¹Department of Physics, Ulsan National Institute of Science and Technology (UNIST), ²Department of Chemistry, Chung-Ang University, ³UNIST Central Research Facilities (UCRF), Ulsan National Institute of Science and Technology (UNIST))

P1-ap.117

Graphene nanoribbons prepared by angle-plasma-etching process with InAs-nanowire stencil mask / MAYAMEI Yashar*^{1, 2}, BAE Myung-Ho^{1, 2} (¹Department of Nano Science, Korea University of Science and Technology (UST), ²Korea Research Institute of Standards and Science (KRISS))

P1-ap.118

Electrical and magnetic properties of in-plane graphene/graphene oxide/ graphene junction structures / KEE Eun Hee, LEE Duk Hyun, KIM Yeon Soo, JEON Ji Hoon, PARK Bea Ho* (Division of Quantum Phases & Devices, Department of Physics, Konkuk University.)

P1-ap.119*

In-Situ Growth of Large-Area High-Quality Bilayer Graphene via One-Batch Chemical Vapor Deposition / QIAN Yongteng, KANG Dae Joon* (Department of Physics and Interdisciplinary Course of Physics and Chemistry, Sungkyunkwan University)

P1-ap.120*

고분자 기판 위의 탄소나노튜브/그래핀에 대한 이온 조사 효과 연구 / 임웅빈, 박세준, 박재우, 채관병, 안영환, 박지용* (아주대학교 에너지시스템학과)

P1-ap.121*

Electrical Characterizations and Anisotropic Properties of GeSe Nanoflakes / JANG Jeongsu, LEE Yangjin, YOON Jun-Young, KIM Kwanpyo* (Department of Physics, Ulsan National Institute of Science and Technology (UNIST))

P1-ap.122*

Nanoscopic surface potential characterizations using Kelvin probe force microscopy / KWON Soyeong, KIM Eunah, KIM Dong-Wook* (Department of Physics, Ewha Womans University)

P1-ap.123

PbSe 합성과 중적외선 대역의 광특성 분석 / 김중동¹, 오은순*¹, 김승기¹, 안학영², 최원준², 조소혜² (¹충남대학교 물리학과, ²한국과학기술연구원)

P1-ap.124

Patterning of ZnO Nanorods array using E-Beam Lithography on p-GaN substrate / KIM GyuHan, HWANG Yoon-Hwae* (Nanoconvergence technology, Pusan National University)

P1-ap.125

Ni foam 위에 성장한 $\text{Ni}_x\text{Co}_y\text{O}_4$ 나노시트 전극의 전기촉매적 산소 발생 반응과 슈퍼캐패시터 특성 연구 / 이성우, 김종민, 조상은, 조용철, 우현석, Abu Talha A. A, Harish. S. Chavan, Akbar I. Inamdar, Sambhaji M. Pawar, 김형상, 임현식* (동국대학교 반도체과학과)

P1-ap.126

BaTiO₃/In₂S₃-PANI nanostructure on FTO glass with the enhanced absorption and photocatalytic performance for Hydrogen generation / KIM Hyun, BRAYEK Amine, YANG Bee Lyong* (School of Materials Science and Engineering)

P1-ap.127

TiO₂/CuO-PANI nanostructure on FTO glass with the enhanced absorption and photocatalytic performance for Hydrogen generation / KIM Hyun, BRAYEK Amine, YANG Bee Lyong* (School of Materials Science and Engineering)

P1-ap.128

유기태양전지에서 정공수송층 코팅에 사용된 초음파-스핀코팅의 효과 / 윤종원, 이성한, 장세정, 김용수* (Department of Physics and Energy Harvest-Storage Research Center, University of Ulsan)

P1-ap.129

TiO₂/CoO-PANI nanostructure on FTO glass with the enhanced absorption and photocatalytic performance for Hydrogen generation / KIM Hyun, BRAYEK Amine, YANG Bee Lyong* (School of Materials Science and Engineering)

P1-ap.130

Mechanical and Electrical Characterization of PVDF-ZnO Hybrid Structure for Application to Nanogenerator / 최문강, 황성민, 이민백* (인하대학교 물리학과)

P1-ap.131*

Grain size effect on ferroelectricity of PZT thin film deposited by sol-gel technique / CHUN Min Chul, PARK Ga-yeon, PARK Sanghyun, PARK Solmin, KANG Bo Soo* (Department of Applied Physics, Hanyang University)

P1-ap.132*

One-Pot Hydrothermal Synthesis of Ni-Silicate Mesoporous Nanosheets on Carbon Cloths for High-Performance Flexible Lithium-Ion Battery / YAN Yaping, KANG Dae Joon* (Department of Physics and Interdisciplinary Course of Physics and Chemistry, Sungkyunkwan University)

P1-ap.133*

Flexible Piezoelectric and Triboelectric Hybrid Nanogenerators with Ultrahigh Output Power Density / HE Wen, KANG Dae Joon* (Department of Physics and Interdisciplinary Course of Physics and Chemistry, Sungkyunkwan University)

P1-ap.134*

Conductivity Overturning in Si QDs/Silicon Oxynitride Superlattices by Hydrogen Passivation / 안한열, 한문섭*, 구민선, 주범수, 정남식, 박영주 (서울시립대학교 물리학과)

P1-ap.135

Enhancing the light emission of Si nanocrystals by atomic hydrogen treatments / YOON Jong Hwan* (Department of Physics, Kangwon National University)

P1-ap.136

니켈 촉매에 의한 비정질 실리콘 박막으로부터 실리카 나노와이어의 형성 / 윤종환* (강원대학교 물리학과)

P1-ap.137

Sol-Gel법으로 만든 Fe-Mo/MgO 촉매를 이용한 thin-MWCNT의 합성 / 공태웅, 김바울, 이철진* (고려대학교 전기전자공학과)

P1-ap.138

Electrical characterization of vertical-type molecular junctions with aryl alkane monolayers and single layer graphene electrodes / JEONG Inho¹, RYU Ji-Kyung², HWANG Wang-Taek³, JANG Yeonsik³, JEONG Hyunhak³, KIM Junwoo³, KOO Jeongmin³, KIM Dongku³, LEE Takhee³, AHN Kwang-Hyun², SONG Hyunwook*¹ (¹Department of Applied Physics, Kyung Hee University, ²Department of Applied Chemistry, Kyung Hee University, ³Department of Physics and Astronomy, Seoul National University)

P1-ap.139

Wigner 수송방정식에 의한 나노선 공명투과 다이오드의 양자 수송 계산 / 이준호¹, 신민철*², 변석주³ (¹한국과학기술원 정보전자연구소, ²한국과학기술원 전기및전자공학과, ³한국과학기술원 계산광학센터)

P1-ap.140

나노구조 엑스선 회절격자기술을 적용한 컴퓨터 단층영상장치의 유효에너지 측정 방법 / 정승태^{*1}, 김인수¹, 김은광¹, 김송구¹, 표성환¹, 이현우¹, 한범수¹, 강창무², 안치원³, 이세호⁴, 오오성⁴, 이승욱⁴ (¹이비테크(주), ²한국과학기술정보연구원(ReSEAT), ³나노종합기술원, ⁴부산대학교 기계공학부)

P1-ap.141

LaF₃ 나노입자 기능화된 단일벽 탄소나노튜브 센서의 fluorine 가스 감응특성 / 최선우¹, 김병문², 오상협², 이동진¹, 변영태^{*1} (¹한국과학기술연구원 센서시스템연구센터, ²한국표준과학연구원 대기환경연구센터)

P1-ap.142*

Development of Open-Type X-Ray System Based on Carbon Nanotube Emitter for Medical Imaging / Amar Gupta¹, 박상준¹, 여승준¹, 박한국², 류제항^{*2}, 안정선^{*1} (¹경희대학교 이과대학 물리학과, ²경희대학교 의과대학 의공학교실)

P1-ap.143*

Flexible, Solid Electrolyte-Based Lithium Polymer Battery Composed of LiNi_{0.33}Mn_{0.33}Co_{0.33}O₂ Cathode and Graphite Anode for Applications in Smart Textiles / NAM Jae Seok, KANG Dae Joon* (Department of Physics, Sungkyunkwan University)

P1-ap.144*

Thermally stable pyroprotein-based electronic and semiconducting textiles / JEON Jun Woo, JANG Hyun Seok, KIM Byung Hoon* (Department of Physics, Incheon National University)

P1-ap.145*

Synthesis of Chromatic E-textile by Conductive Polymer / HAN Song Lee, JEON Jun Woo, KIM Byung Hoon* (Department of Physics, Incheon National University)

P1-ap.146*

유연한 그래핀 트랜지스터 구현을 위한 이온젤의 특성 연구 / 채관병, 임웅빈, 박재우, Nguyen Van Tu, 이순일, 안영환, 박지용* (아주대학교 에너지시스템학과)

P1-ap.147*

An efficient solution for ultrathin metamaterial perfect absorbers at low frequency / KHUYEN B. X.¹, TUNG B. S.¹, KIM Y. J.¹, HWANG J. S.¹, KIM K. W.², RHEE J. Y.³, LAM V. D.⁴, LEE Y. P.*¹ (¹Department of Physics, Quantum Photonic Science Research Center and RINS, Hanyang University, ²Department of Information Display, Sunmoon University, ³Department of Physics, Sungkyunkwan University, ⁴Institute of Materials Science, Vietnam Academy of

P1-ap.148*

Ultrathin microwave metamaterial absorber utilizing lumped resistors / 김영주¹, 유영준¹, 황지섭¹, 손혜미¹, 이주열², 김기원³, 박상윤⁴, 이영백^{*1} (¹한양대학교 물리학과, ²성균관대학교 물리학과, ³선문대학교 정보디스플레이학과, ⁴서울대학교 차세대융합기술원 나노융합연구소)

P1-ap.149*

Manipulation of electromagnetically-induced transparency-like effect by using a bending metamaterials / 황지섭¹, 유영준¹, 김영주¹, 손혜미¹, 김기원², 이주열³, 박상윤⁴, 이영백^{*1} (¹Dept. of Physics, Hanyang University, ²Dept. of Information Display, Sunmoon University, ³Institute of Basic Sciences and Dept. of Physics, Sungkyunkwan University, ⁴Advanced Institutes of Convergence Technology, Seoul National University)

P1-ap.150*

Shape-Dependent Thermal Rectification Device Using Vanadium Dioxide Thin Film / KIM Isae, KANG Manil, KIM SokWon* (Department of Physics, University of Ulsan)

P1-ap.151

나노초 열반사율법을 이용한 V_2O_5 박막의 상전이 온도에서의 열확산도 분석 / 박현우, 강만일, 김석원* (울산대학교 물리학과)

P1-ap.152*

진동하는 알루미늄 평행판의 공명진동수 측정 / 주영규, 김소희, 김영유, 이기원* (공주대학교 물리학과)

P1-ap.153*

Fabrication of Zn-Based Buffer Layers for CIGS Solar Cell / RANA Tanka Raj¹, KIM JunHo^{*1}, KIM Kihwan², YUN Jae Ho² (¹Department of Physics, Incheon National University, ²Photovoltaic Laboratory, Korea Institute of Energy Research (KIER))

P1-ap.154

Effect of different reaction path on the residual secondary phase during the formation of $Cu_2ZnSnSe_4$ film / YOO Hyesun, KIM SeongYeon, KIM JunHo* (Department of Physics, Incheon National University)

P1-ap.155

Fabrication and Characterization of $Cu_2(Zn_{1-x}Ba_x)Sn(S, Se)_4$ films / ENKHBAT Temujin, RANA Tanka Raj, KIM JunHo* (Department of Physics, Incheon National University)

P1-ap.156

Fabrication of Chalcogenide Solar Cells by Using Non-Vacuum Spray Pyrolysis / KIM SeongYeon, KIM JunHo* (Department of Physics, Incheon National University)

P1-ap.157

Growth of graphene on polycrystalline copper foils by using low pressure chemical vapor deposition / NGUYEN Anh Duc, LEE Sung-Han, ZEESHAN Tahir, YUN Jong-Won, KIM Yong Soo* (Department of Physics and Energy Harvest-Storage Research Center (EHSRC), University of Ulsan)

P1-ap.158

Al₂O₃:C의 방사선, 광 및 열 자극 발광스펙트럼 / 고지영¹, 박창영¹, 박용국¹, 정기수^{*1}, 이정일², 김장렬² (¹경상대학교 물리학과, ²한국 원자력연구원)

P1-ap.159

캘리퍼 내부 이물질 검출을 위한 비전 시스템 검사기 개발 / 추형곤*, 권경훈, 김진영, 강준희 (인천대학교 물리학과)

P1-ap.160*

CVD synthesis of twisted graphene and its Mechanical Behavior / RAI Krishna Bahadur¹, MOON Youngkwon¹, KHADKA Ishwor Bahadur¹, AHN JoungReal^{*1,2} (¹Department of Physics, Sungkyunkwan University, ²SAINT (Sungkyunkwan Advanced Institute of Nanotechnology), Sungkyunkwan University)

P1-ap.161*

Flexible metamaterial absorber utilizing simple layered structure / SON HyeMi¹, YOO YoungJoon¹, KIM YoungJu¹, HWANG JiSub¹, RHEE JooYull², KIM KiWon³, LEE YoungPak^{*1} (¹Department of Physics, Quantum Photonic Science Research Center and RINS, Hanyang University, ²Sungkyunkwan University, ³Sunmoon University)

P1-ap.162*

그래핀/다공성 실리콘 쇼트키 접합 태양전지 제작 및 특성 / 김주환, 김종민, 신동희, 서상우, 김성, 최석호* (경희대학교 응용물리학과)

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P1-at.001

약하게 구속된 루비듐 이원자 분자 1g 전자 상태의 초미세 구조 연구 / 김진태* (조선대학교 광기술공학과)

P1-at.002

Dielectronic recombination rate coefficients for lowly charged tungsten ions / KWON Duck-Hee* (Nuclear Data Center of Korea Atomic Energy Research Institute)

P1-at.003

Tip-Induced Molecule Anchoring in Ni-Phthalocyanine on Au(111) substrate / JEONG Yongchan, SONG Sangyong, KIM Youngjae, KANG Joongoo*, SEO Jungpil* (Department of Emerging Materials Science, DGIST)

P1-at.004

전자충돌에 의한 DNA-금속 이온 결합체 손상과 메커니즘 / 노형아¹, 박연수², 조혁*¹ (¹충남대학교, ²국가핵융합연구소 플라즈마기술연구센터)

P1-at.005*

Progress in a large ⁸⁷Rb BEC machine for investigating the universality of vortex shedding dynamics / LIM Younghoon^{1,2}, GOO Junhong², SHIN Yong-il*^{1,2} (¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, Seoul National University (SNU))

P1-at.006

Photoassociation spectroscopy of a degenerate Fermi gas of 173 ytterbium atoms / HAN Jeong Ho¹, KANG Jin Hyoun^{1,2}, LEE Moosong^{1,2}, SHIN Yong-il*^{1,2} (¹Department of Physics and Astronomy and Institute of Applied Physics, Seoul National University, ²Center for Correlated Electron Systems, Institute for Basic Science)

P1-at.007

Toward the development of an Atom Spin Gyroscope / 임신혁*, 김태현, 이상경, 김재일, 심규민 (국방과학연구소)

P1-at.008

Development of alkali atom vapor cell for an Atom Spin Gyroscope / 김태현*¹, 임신혁¹, 이상경¹, 김재일¹, 심규민¹, 권택용², 이성의³

(¹국방과학연구소, ²표준과학연구원, ³한국산업기술대학교)

P1-at,009

Detection of the kinetic energies of release (KERs) of two ion pair channels for collision of 4 keV CH²⁺ ion beam with Helium atom / KIM Hyun, CHUNG Yang Soo* (Department of Physics, Chungnam National University)

P1-at,010

Understanding the high harmonic generation in a solid / LEE Min-Ho, BYUN Chang Woo, CHOI Nark Nyul* (Kumoh National Institute of Technology)

P1-at,011

High-harmonic generation in a solid: one-dimensional model calculation / BYUN Chang Woo, LEE Min-Ho, CHOI Nark Nyul* (Kumoh National Institute of Technology)

P1-at,012*

Entropy and non-Gaussianity bounded uncertainty relations / BAEK Kyunghyun, SON Wonmin* (Department of Physics, Sogang University)

P1-at,013*

Near perfect optical pumping toward an ideal single-photon detector for quantum information / OH Seunghoon, AN Kyungwon* (School of Physics and Astronomy, Seoul National University)

P1-at,014*

Pump-intensity and magnetic-field dependence of sub Doppler DAVLL in V-type systems of Rb atoms / 강현종, 노흥렬* (전남대학교 물리학과)

P1-at,015*

Towards the tightness condition of Bell's inequalities for bipartite high-dimensional system / BAE Kwang-II, SON Wonmin* (Department of Physics, Sogang University)

P1-at,016

양자연산 구현을 위한 이온트랩 칩과 칩 표면의 정전기 방지 연구 / 권영대¹, 홍석준², 정창현², 이민재², 박윤재², 조동일², 김태현*¹ (¹SK 텔레콤 Quantum Tech. Lab., ²서울대학교 전기정보공학부, 자동화시스템공동연구소(ASRI), 반도체공동연구소(ISRC))

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P1-co.101*

Strain and thickness effect on T_c of superconducting $BaPb_{1-x}Bi_xO_3$ thin films / 김진권^{1, 2}, 이한결^{1, 2}, 김민우^{1, 2}, 김태현³, 이신범⁴, 노태원^{*1, 2}
(¹기초과학연구원 강상관계물질연구단, ²서울대학교 물리천문학부, ³울산대학교 물리학과, ⁴대구경북과학기술원 신물질과학전공)

P1-co.102

초전도 에너지 틈의 마디 구조에 따른 불순물 효과 :셀프 에너지 /
정현희*, 김희상*, 김남미 (숭실대학교 물리학과)

P1-co.103*

Temperature-dependent optical properties of Sr_2VO_3FeAs / LEE Seokbae¹, OK Jongmok², SEO Yu-Seong¹, ROH Seulki¹, LEE Myounghoon¹, JUNG Eilho¹, KIM Junsung², HWANG Jungseek^{*1} (¹Department of Physics, Sungkyunkwan University, ²Department of Physics, Pohang University of Science and Technology)

P1-co.104

Transport and magnetic properties of $FeN/NbN/FeN/FeMn$ spin-valve structure / 김동호*, 황태종 (영남대학교)

P1-co.105*

Local hysteresis losses of $GdBCO$ coated conductors with various geometries / KIM Young-kyoung, KIM Mu-yong, PARK Hee-yeon, PARK Sang-kook, RI Hyeong-Cheol* (Department of Physics, Kyungpook National University)

P1-co.106*

First principles studies of oxygen-doping driven superconductor Y_2O_2Bi / 정명철¹, 이관우^{*1, 2} (¹고려대학교 대학원 응용물리학과, ²고려대학교 세종캠퍼스 디스플레이반도체물리학과)

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P1-co.201

Orbital decomposed heisenberg exchange parameter calculation and its applications regarding transition-metal monoxide / YOON Hongkee, KIM Taekjung, SIM Jae-Hoon, JANG Seung Woo, HAN Myung Joon* (Department of Physics, KAIST)

P1-co.202

First-principles calculation of orbital-decomposed exchange interactions / YOON Hongkee¹, KIM Taek Jung¹, SIM Jae-Hoon¹, HAN Myung Joon^{*1, 2} (¹Department of Physics, Korea Advanced Institute of Science and Technology (KAIST), ²KAIST Institute for the NanoCentury, Korea Advanced Institute of Science and Technology)

P1-co.203

Electronic structures and topological properties of CeNiSn, CeRhAs, and CeRhSb / NAM Taesik, KANG Chang-Jong, RHYU Dong-Choon, KIM Kyoo, MIN Byung Il* (Department of Physics, POSTECH)

P1-co.204

Efficient algorithm for the multi-band cluster calculation with multiplet-state bases / GONG Hoshin, MIN Byung Il* (Department of Physics, Pohang University of Science and Technology (POSTECH))

P1-co.205*

Precise calculation of oxygen K-edge of $\text{Lu}_{0.5}\text{Sc}_{0.5}\text{FeO}_3$ / 김정규^{1, 2}, 김동환^{1, 2}, WANG Yazhong³, 정상욱^{3, 4}, 고경태^{1, 2}, 박재훈^{*1, 2} (¹Department of Physics, Pohang University of Science and Technology, ²Max Plank POSTECH Center for Complex Phase Materials, Pohang University of Science and Technology, ³Department of Physics, Rutgers, the State University of New Jersey, ⁴Lab of Pohang Emergent Materials)

P1-co.206*

Observation of Unusual Solid-state Phase Transition in Flexible Vanadium Dioxide Thin films via Interfacial Strain Engineering / SOHN Min Kyun, KANG Dae Joon* (Department of Physics, Sungkyunkwan University)

P1-co.207*

Metallization Induced by Structural Deformation in VO₂ by diffusion using Ionic liquid gate / KANG Dae Joon*, ABBAS Kaleem
(Department of Physics and Energy Science, Sungkyunkwan University)

P1-co.208

Delaying of phase transition in VO₂ by strain engineering / CHO Jin-Cheol^{1, 2}, LEE Kyung-Hyun³, SLUSAR Tetiana*², KIM Hyun-Tak^{1, 2}
(¹Department of advanced device technology, UST, ²MIT lab., ETRI, ³Department of advanced materials engineering for information and electronics, Kyung Hee Univ.)

P1-co.209*

Magnetic Basal Plane Anisotropy in Strontium Iridate / NAUMAN Muhammad¹, HONG YounJeong¹, HUSSAIN Tayyaba¹, CHOI Hwan young², LEE Nara², CHOI Young jai², JO YounJung*¹ (¹Department of Physics, Kyungpook National University, ²Department of Physics and IPAP, Yonsei University)

P1-co.210*

Large anomaly in resonance frequency behavior on All-in/All-out Pyrochlore Iridate system (R= Y, Eu, Sm) / SON Jaeseok^{1, 2}, NOH T.W.*^{1, 2} (¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, Seoul National University)

P1-co.211*

Infrared Study on the Electronic Structure of J_{eff}=0 Iridate Sr₃CaIr₂O₉ / AHN Gihyeon¹, SEO J. H.¹, CHEN X.², WILSON S. D.³, MOON S. J.*¹ (¹Department of Physics, Hanyang University, ²Department of Physics, Boston College, ³Materials Department, University of California, Santa Barbara)

P1-co.212*

A muSR study of the dilution effects in the Kitaev-Heisenberg honeycomb magnet Ir_xRu_{1-x}Cl₃ / CHOI Kwang-Yong*¹, LEE Wonjun¹, LEE Suheon¹, LEE Kil Jin¹, CHOI Yongsu¹, DO Seung-Hwan¹, SUH Byoung Jin²
(¹Department of Physics, Chung-Ang University, ²Dept. of Physics, The Catholic University of Korea)

P1-co.213*

Oxygen vacancy induced structural evolution of SrFeO_{3-x} thin film from brownmillerite to perovskite / ROH Seulki, LEE Seokbae, LEE Myounghoon, SEO Yu-Seong, KAHRE Amit, YOO Tae Sup, CHOI Woo Seok, HWANG Jungseek* (Department of Physics, Sungkyunkwan University)

P1-co.214*

Epitaxial growth of NbO₂ thin films on Al₂O₃ substrates / KIM Gowoon¹, CHO Jin-Hyung², JEEN Hyoungjeen*¹ (¹Department of Physics, Pusan

National University, ²Department of Physics education, Pusan National, University)

P1-co.215*

Template Control of Metal-to-Insulator Transitions in Epitaxial NdNiO₃/LaNiO₃ Bilayer Thin Films / 이종민¹, 김상모³, 박정웅³, 김태현^{*2}, 이상한^{*1} (¹광주과학기술원 신소재공학부, ²울산대학교 물리학과, ³가천대학교 전기공학과)

P1-co.216*

Anomalous sign difference between Hall and Seebeck coefficients and polaronic transport in topological crystalline insulator Pb_{1-x}Sn_xTe / KIM Ga Reoung, RHYEE Jong-Soo* (Department of Physics, Kyung hee University)

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P1-co.301

희토류 칼코겐 화합물 $R\text{Te}_3$ ($R=\text{Pr}, \text{Er}$)의 각분해 광전자 분광 연구
/ 성승호¹, 김대현¹, 이은숙¹, 김현우¹, 권용성², J. D. Denlinger³, 강정수^{*1}
(¹가톨릭대학교 물리학과, ²대구경북과학기술원(DGIST), ³Lawrence Berkeley National Laboratory, USA)

P1-co.302*

Dielectric screening effect on MoS_2 using various high-k oxides /
유영규*, 류종화, 장성호* (건국대학교 물리학과)

P1-co.303

Atomic and electronic structures of GaS on Si(100) using first-principles calculations / JKIM Junghwan, MIN Kyung-Ah, CHA Janghwan, HONG Suklyun* (Department of Physics and Graphene Research Institute, Sejong University)

P1-co.304*

First-principles study of hexagonal InX ($X=\text{C}, \text{Si}, \text{Ge}$) / 전수남^{1,3}, 송범섭^{1,3}, 송영재^{*2,4}, 신봉규^{*1,2}, 이영희^{*1,2,3} (¹Center for Integrated Nanostructure Physics(CINAP), Institute for Basic Science(IBS), ²Department of physics sungkyunkwan university(SKKU), ³Department of energy science sungkyunkwan university(SKKU), ⁴Sungkyunkwan Advanced Institute of nanotechnology sungkyunkwan university(SKKU))

P1-co.305*

Temperature-dependent terahertz emission from topological insulator $\text{Bi}_{1.5}\text{Sb}_{0.5}\text{Te}_{1.7}\text{Se}_{1.3}$ / PARK Soon Hee¹, HAMH Sun Young¹, PARK Joonbum², KIM Jun Sung³, LEE Jong Seok^{*1} (¹Department of Physics and Photon Science Gwangju Institute of Science and Technology, ²Max Planck Institute for Chemical Physics of Solids, ³Department of Physics, Pohang University of Science and Technology)

P1-co.306*

Morphological Change of Au Nanoparticles and PECA interfaces After Nano-Second Pulsed Laser Irradiation / CHOI Jung Won, HA Sung Soo, MOHD Faiyaz, SON Joon Gon, SEO Okkyun, NOH Do Young* (School of Materials Science and Engineering& Department of Physics and Photon Science, GIST)

P1-co.307*

Optical pump-probe study on topological insulator Bi_2Te_3 single crystal

/ LEE Bumjoo^{1,2}, PARK Byung Cheol^{1,2}, JO Nahyun³, LEE Min-Cheol^{1,2}, KWAK Inho^{1,2}, JUNG Myung-Hwa³, KIM Kyungwan⁴, NOH Tae Won^{*1,2} (¹Department of Physics and Astronomy, Seoul National University, ²Department of Physics, Sogang University, ³Department of Physics, Chungbuk National University, ⁴Center for Correlated Electron Systems, Institute for Basic Science (IBS))

P1-co.308*

Electronic structure of Au/Si(553) with gold at step edge / YEO

Kangmo, JEONG Sukmin* (Department of Physics and Research Institute of Physics and Chemistry, Chonbuk National University)

P1-co.309

RAMAN spectroscopic study of hydrogenated molybdenum

disulfide / JEON Gi Wan, LEE Kyu Won, LEE Cheol Eui* (Department of Physics, Korea University)

P1-co.310*

Size and size independent effects of free standing silicon

quantum dots on luminescence properties

Size and size independent effects of free standing silicon quantum dots on

luminescence properties / 정남식, 주범수, 구민선, 안한열, 박영주,

한문섭* (서울시립대학교 물리학과)

P1-co.311*

Gate-variable optical transitions in twisted bilayer graphene /

YU Kwangnam¹, NGUYEN Van Luan², KIM Tae Soo², LEE Young Hee², CHOI

Eunjip^{*1} (¹서울시립대학교 물리학과, ²성균관대학교 IBS 나노 구조물리 연구단)

P1-co.312*

Ab initio study of 2D/3D heterostructures using transition metal

dichalcogenides and Si(100) / CHOI Hyunsoo, CHA Janghwan, MIN

Kyung-Ah, HONG Suklyun* (Department of Physics, and Graphene Research

Institute, Sejong University)

P1-co.313*

Freestanding Graphene writing on a SiC / MOON Youngkwon¹,

KIM Eun Hye¹, AHN Joung Real^{*1,2} (¹Department of Physics, Sungkyunkwan

University, ²Sungkyunkwan Advanced Institute of Nanotechnology (SAINT),

Sungkyunkwan University)

P1-co.314

Gate dependent of nonlocal spin resistance in hydrogenated

graphene / PARK Jungmin, OH Inseon, YUN Hyungduk, JO Junhyeon, JIN

Mi Jin, KWON Soon Yong, YOO Jung Woo* (School of Materials Science and Engineering -Low dimensional Carbon Materials Center, Ulsan National Institute of Science and Technology)

P1-co.315*

WSe₂ flake의 photoluminescence에 대한 네마틱 액정의 영향에 관한 실험 / 이준용, 김종현* (충남대학교 물리학과)

P1-co.316*

Effect of alkali-metal adsorption on 2H-MoS₂ probed by scanning tunneling microscopy / SONG Bumsub^{1, 3}, JEON Sunam^{1, 3}, YUN Seokjoon^{1, 3}, SHIN Bong Gyu^{*1, 2}, SONG Young Jae^{*2, 4}, LEE Young Hee^{*1, 2, 3} (¹Center for Integrated Nanostructure Physics (CINAP), Institute for Basic Science (IBS), ²Department of Physics, Sungkyunkwan University, ³Department of Energy Science, Sungkyunkwan University, ⁴Sungkyunkwan Advanced Institute of Nanotechnology, Sungkyunkwan University)

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Place: Exhibition Hall

P1-co.401

Device fabrication and electrical characterization of Ge/Si core/shell nanowires / IM Heung-Soon¹, PARK Sang-Il¹, YOO Jinkyoun², DOH Yong-Joo*¹ (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Center for Integrated Nanotechnologies, Los Alamos National Laboratory)

P1-co.402*

Topological evolution of the 2D Floquet insulator with varying AC electric field / PARK Sukyoung, MOON Kyungsun* (Department of Physics, Yonsei University)

P1-co.403

Graphene-NbSe₂ planar van der Waals Josephson junction / YI Jong-Yoon¹, KIM Minsoo¹, WATANABE Kenji², TANIGUCHI Takashi², LEE Hu-Jong*¹ (¹Department of Physics, Pohang University of Science and Technology ²Advanced Materials Laboratory, National Institute for Materials Science)

P1-co.404

Electrical transport properties in InAs nanowires / KIM RakHee¹, KIM Nam-Hee¹, KIM Hong-seok¹, SONG Jin-Dong², DOH Yong-Joo*¹ (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Center for Opto-Electronic Materials and Devices, Korea Institute of Science and Technology)

P1-co.405

Detection of kinetic inductance in InAs nanowire Josephson junction using a superconducting coplanar wave guide device / KIM Jihwan¹, KIM Minjin^{1, 2}, SUH Junho*¹ (¹Korea Research Institute of Standards and Science, ²Korea Advanced Institute of Science and Technology)

P1-co.406*

Unconventional topological phase transition in two-dimensional systems with space-time inversion symmetry / AHN Junyeong^{1, 2, 3}, YANG Bohm-Jung*^{1, 2, 3} (¹Department of Physics and Astronomy, Seoul National University, ²Center for Correlated Electron Systems, Institute for Basic Science (IBS), ³Center for Theoretical Physics (CTP), Seoul National University)

P1-co.407*

Berry curvature in monolayer MoS_2 / 김경한, 이현우* (포항공과대학교 물리학과)

P1-co.408*

Current distribution in multilayer graphene and MoS_2 / 최원렬, 김성원, 나정현, 류종화, 장성호* (건국대학교 물리학과)

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P1-co.501*

Imaging the structure of a chromosome by cryo coherent X-ray diffraction microscopy / JUNG Chulho, CHO Dohyung, SUNG Daeho, NAM Daewoong, SONG Changyong* (Department of Physics, POSTECH)

P1-co.502

First principles study of selective adsorption of carbon monoxide and oxygen molecules on 3d transition metal incorporated porphyrin / CHA Janghwan¹, LEE Hoonkyung², HONG Suklyun*¹
(¹Department of Physics and Graphene Research Institute, Sejong University,
²School of Physics, Konkuk University)

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P1-nu.001

Effects of band mixing in the $^{152-156}\text{Sm}$ within the framework of the IBM / LEE youngjun, LEE suyoun*, LEE J.H. (Department of Physics Dong-eui University)

P1-nu.002*

Searching for the evidence of the α -cluster structure in radionuclide ^{22}Mg / 차수미¹, 채경육^{*1}, ABE K.², BAE S.H.³, BINH D.N.⁴, CHOI S.H.³, DUY N.N.⁵, HAHN K.I.⁶, HAYAKAWA S.², HONG B.⁷, IWASA N.⁸, KAHL D.⁹, KHIEM L.H.^{10, 11}, KIM A.¹², KIM D.H.¹², KIM E.J.¹³, KIM G.W.¹², KIM M.J.¹, KWAG K.¹⁴, KWAG M.S.¹, LEE E.J.¹, LIM S.I.¹², MOON B.⁷, MOON J.Y.¹⁵, PARK S.Y.¹², PHONG V.H.¹⁶, SHIMIZU H.², YAMAGUCHI H.², YANG L.², ZHUANG G.¹⁶ (¹Department of Physics, Sungkyunkwan University, ²Center for Nuclear Study, the University of Tokyo, ³Department of Physics and Astronomy, Seoul National University, ⁴30 MeV Cyclotron Center, Tran Hung Dao Hospital, ⁵Dong Nai University, ⁶Department of Science Education, Ewha Womans University, ⁷Department of Physics, Korea University, ⁸Department of Physics, Tohoku University, ⁹School of Physics and Astronomy, University of Edinburgh, ¹⁰Institute of Physics, Vietnam Academy of Science and Technology, ¹¹Graduate University, Vietnam Academy of Science and Technology, ¹²Department of Physics, Ewha Womans University, ¹³Division of Science Education, Chonbuk National University, ¹⁴Department of Physics, School of Natural Science, Ulsan National Institute of Science and Technology, ¹⁵Institute for Basic Science, ¹⁶RIKEN Nishina Center)

P1-nu.003

Dirac coupled channel analyses of $^{58}\text{Ni}(p,p')$ / SHIM Sugie*, JEONG Seong-Hyeon (Department of Physics, Kongju National University)

P1-nu.004

Neutron capture yield measurements of dysprosium at Japan Proton Accelerator Research Complex / LEE Jieun¹, JANG hee jin¹, RO Taeik^{*1}, KIM Guinyun², KIM Kwangsoo², LEE Man Woo³, KANG Yeong-Rok³, SHIN Sung Gyun⁴, CHO Moo Hyun⁴ (¹ Dong-A University, Department of Physics, ²Department of Physics, Kyungpook National University, ³Dongnam Institute of Radiological and Medical Science, ⁴Division of Advanced Nuclear Engineering, POSTECH)

P1-nu.005

Thermal neutron cross-section and resonance integral of the $^{174}\text{Y}(n,g)^{175}\text{Y}$ and $^{176}\text{Y}(n,g)^{177}\text{Y}$ reactions / NGUYEN Hien Thi¹, KIM

Guinyun^{*1}, KIM Kwangsoo¹, MUHAMMAD Nadeem¹, NGUYEN Do Van², PHAM Khue Duc², SHIN Sung-Gyun³, CHO Moo-Hyun³ (¹Department of Physics Kyungpook National University, ²Institute of Physics, Vietnam Academy of Science and Technology, ³Department of Advanced Nuclear Engineering, Pohang University of Science and Technology)

P1-nu.006

차폐체의 종류에 따른 감마선 투과율 및 질량감쇠계수 측정 / 장희진, 이지은, 윤정란, 노태익* (동아대학교 물리학과)

P1-nu.007

Measurement of Delayed Gamma-Ray Energy Spectrum from Residual Nuclide for $^{nat}\text{Fe}(p,xn)$ Reaction by 57 and 100 MeV Proton Accelerator / LEE Jieun^{1, 3}, YOON Jungran^{*1}, RO Taeik¹, LEE Samyol^{2, 3} (¹Department of Physics, Dong-A University, ²Department of Radiological Science, Dongseo University, ³Center for Radiological Environment & Health Science, Dongseo University)

P1-nu.008*

우주선 뮤온 개수의 천정각 (Zenith angle) 의존성 측정 / 이형준, 권민정* (인하대학교 물리학과)

P1-nu.009

An optimization study for large-area light detectors using Metallic Magnetic Calorimeter / OH Seung-Yoon^{1, 2, 3}, KIM Yong-Hamb^{*1, 2}, LEE Minkyu², LEE Hyejin¹, KIM Inwook^{1, 2}, KIM Hyelim¹, KIM Geon-Bo¹, KIM Sora¹, SO Jungho¹ (¹Center for Underground Physics (CUP), Institute for Basic Science (IBS), ²Korea Research Institute of Standards and Science (KRISS), ³Dept. of Physics, Sejong University)

P1-nu.010

키로플로스 방법을 이용하여 개발된 YAG:Ce 섬광 단결정의 섬광 특성 조사 / 김민정^{*1}, 김홍주¹, 조재영¹, 기문광², 김현덕³ (¹경북대학교 물리학과, ²kihtec Inc., ³Gamma Spectra Co.)

P1-nu.011

Large Single Crystal Growing and Facility / KIM Daeyeon¹, SON Jukyung¹, CHOE Junseok¹, RA Sejin^{1, 2}, PARK Hyangkyu¹, KIM Yeongduk¹, KIM Hongjoo^{*2} (¹Institute for Basic Science, ²Kyungbook National University)

P1-nu.012

원자력발전소내 계통감시설비 방사선검출기 설계 및 동작특성 조사 / 권양현*, 조규환, 이순재, 정원익, 김태균 (라토즈이앤지(주))

P1-nu.013

몬테칼로 전산모사를 이용한 지역방사선감지기 검출기의 방향의존성 및 에너지의존성 특성평가 / 권양현*, 조규환, 이순재, 정원익, 김태균 (라토즈이앤지(주))

P1-nu.014

Performance test of a hybrid focal plane detector for the KOBRA spectrometer / KIM Eunhee*, LEE Kwang Bok, AKERS Charles Anthony, KIM Young Jin, LEE Hyo Sang, PARK Jin Hyung, RYU Min Sang (Institute for Basic Science)

P1-nu.015

컴퓨터 카메라를 위한 DSSD 산란부 검출기의 DPP(digital pulse processing)를 활용한 저에너지 감마선의 에너지 측정과 반응 위치 측정 방법 연구 / 이종훈*, 이일맥^{1, 2}, 장택진¹, 조화연², 이춘식¹ (¹중앙대학교 물리학과, ²중앙대학교 신기능이미징연구소)

P1-nu.016

상온 반도체 검출기 16 채널 CZT에서 각 채널별 오름 시간을 이용한 감마선 반응위치의 깊이 측정 / 이일맥*^{1, 2}, 이종훈^{1, 2}, 장택진^{1, 2}, 조화연², 이춘식^{1, 2} (¹중앙대학교 물리학과, ²중앙대학교 신기능 이미징 연구소)

P1-nu.017

저항 네트워크를 이용한 위치민감형 섬광검출기의 감마선 반응 위치와 에너지 측정 / 장택진*^{1, 2}, 이일맥^{1, 2}, 이종훈^{1, 2}, 조화연², 이춘식^{1, 2} (¹중앙대학교 물리학과, ²중앙대학교 신기능이미징연구소)

P1-nu.018*

REDUCTION OF RADIOACTIVITY IN MOLYBDENUM OXIDE (MoO₃) POWDER WITH DEEP PURIFICATION METHOD / ARYAL Pabitra¹, KIM HongJoo*¹, PARK HyangKyu², SHIN KeonAh², GILEVA Olga², KARKI Sujita¹ (¹Department of Physics, Kyungpook National University, ²Center for Underground Physics, IBS)

P1-nu.019*

REDUCTION OF RADIOACTIVITY IN MOLYBDENUM TRIOXIDE (MoO₃) POWDER WITH SUBLIMATION METHOD / KARKI Sujita¹, KIM HongJoo*¹, PARK HyangKyu², SHIN Keonah², GILEVA Olga², ARYAL Pabitra¹ (¹Department of Physics, Kyungpook National University, ²Center for Underground Physics, IBS)

P1-nu.020

방사선 계측용 G-M 계수관 제조 기술 및 그 특성 평가 / 조규환*, 권양현, 이순재, 정원익, 김태균 (라토즈이앤지(주))

P1-nu.021

Growth and characterization of TlPbI_3 crystal / PHAN Vuong Quoc,
KIM Hongjoo* (Department of Physics, Kyungpook National University)

P1-nu.022

Analysis of thermoluminescence glow peaks on RTL quartz /
HONG DukGeun*, JANG Wonsik, KIM Jintae, PARK Chanil (Department of
Physics, Kangwon National University)

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P1-pl.001*

Estimation of the Kubo number of stochastic magnetic fields in BOUT++ edge pedestal collapse simulations / KIM Jaewook¹, LEE Wonjun¹, JHANG Hogun², KAANG H.H.², GHIM Y.-c.*¹ (¹Department of Nuclear and Quantum Engineering, KAIST, ²National Fusion Research Institute)

P1-pl.002

TE01 Mode Taper for KSTAR LHCD Transmission-line / SEONG Taesik*¹, NAMKUNG Won², CHO Moohyun³ (¹Department of physics, POSTECH, ²Pohang Accelerator Laboratory, ³Department of physics and Division of Advanced Nuclear Engineering, POSTECH)

P1-pl.003*

Neural network magnetic equilibrium reconstruction with Bayesian based preprocessor in KSTAR / JOUNG Semin, KWAK Sehyun, PARK Kyeoreh, GHIM Young-chul* (Department of nuclear and quantum engineering, KAIST)

P1-pl.004*

Estimation of radial profile of SOL electron temperature and density using Bayesian inference on KSTAR FRLPA data / KWON D.H.¹, KIM Jaewook¹, BAK J.G.², KIM H.S.², GHIM Y.-c.*² (¹Department of Nuclear & Quantum Engineering, KAIST, ²National Fusion Research Institute)

P1-pl.005

Measurement of Deuterium Desorption in ARAA / BYEON W. J.¹, SHIN H. W.¹, KIM H. S.¹, NOH S. J.*¹, LEE Cheol Eui² (¹Department of Applied Physics Dankook University, ²Department of Physics Korea University)

P1-pl.006*

Predictive Modelling of High Performance Operation with Neutral Beam Injection in VEST / LEE ChanYoung, YANG SeongMoo, NA DongHyeon, NA YongSu* (Department of Nuclear Engineering, Seoul National University)

P1-pl.007*

Investigation of the Suppression of Density Fluctuation after L-H transition in KSTAR based on the beam emission spectroscopy system / OH Tae-suk¹, KIM Jaewook¹, NAM Y.U.², GHIM Y.-c.*¹ (¹National

P1-pl.008

Effect of magnetic field configuration on the characteristics of a-C:H thin film in an ECR chambers / 박선아¹, 소현섭¹, 최석호¹, 김성¹, 이호선^{*1}, 김남균², 송재민², 김곤호², 홍석호³ (¹Department of Applied Physics, Kyung Hee University, ²Department of Energy Systems Engineering, Seoul National University Seoul, ³National Fusion Research Institute (NFRI))

P1-pl.009

Characterization of the plasma current quench during disruptions in the KSTAR tokamak / BAK Jun-Gyo*, KIM Heung-Su, HAHN Sang-Hee, KIM Jay-Hyun (National Fusion Research Institute)

P1-pl.010

Discussion of Thomson scattering data analysis method and status of KSTAR Thomson scattering diagnostic / LEE Jong-ha^{*1}, LEE Seunghun², KIM Ha-jin³, YAMADA Ichihiko⁴ (¹National Fusion Research Institute, ²Palsmapp, ³National Fusion Research Institute, ⁴National Institute for Fusion Science)

P1-pl.011

Identification of the Poloidal Mode Number in Tokamak Plasma / SEO Seong-Heon*, BAK Jungyo, RHEE Tongnyeol (National Fusion Research Institute)

P1-pl.012

KSTAR의 자기적 진단센서 현황 / 김흥수*, 박준교 (국가핵융합연구소)

P1-pl.013

Equilibrium reconstruction constrained by magnetic pitch angle and plasma profiles in KSTAR / KIM Hyun-Seok*, JEON YoungMu, CHUNG JinIl, KO Jinseok, TEZOLO Laurent, YOU Kwang Il (National Fusion Research Institute)

P1-pl.014

Manufacturing and Testing of Full Scale Prototype for ITER Blanket Shield Block / 김사웅^{*1}, 김덕회², 정현채¹, 심희진¹, 정우호¹, 이현곤¹ (¹국가핵융합연구소 ITER사업단, ²ITER 국제기구)

P1-pl.015

Near-term plan for advanced operation scenario development toward KSTAR NB12 phase / JEON YoungMu^{*1}, PARK Jin-Myung², NA Yong-Su³, KIM Sun-Hee⁴, PARK Young-Seok⁵, YOON Siwoo¹, BAE Young-

Soon¹, KIM Jin-Yong¹, KIM Hyun-Seok¹, CHUNG Jinil¹, KIM Jay-Hyun¹, HAHN Sanghee¹, HAN Hyunsun¹ (¹National Fusion Research Institute, ²Oak Ridge National Laboratory, ³Seoul National University, ⁴ITER Organization, ⁵Columbia University)

P1-pl.016

Diagnostic Port Integration in ITER Upper Port #18 / PAK Sunil, CHEON Mun Seong*, SEON Chang Rae*, CHOI Jihyun*, LEE Hyeon Gon* (National Fusion Research Institute)

P1-pl.017

Safety Integrity Level (SIL) Evaluation of the F-LIC in ITER Coil Power Supply System / SHIN Hyun Kook, OH Jong Seok*, SUH Jae Hak, CHOI Jung Wan, KIM Bong Chul (Power Supply Technology Team of ITER Korea in NFRI)

P1-pl.018

Long-term Corrosion test and Analysis of ARAA and FMS steel in the Experimental loop for liquid breeder / YOON Jae Sung*¹, JUNG Yang Il¹, LEE Dong Won¹, KIM Suk Kwon¹, JIN Hyung Gon¹, LEE Eo Hwak¹, PARK Seong Dae¹, KIM Dong Jun^{1,2} (¹Korea Atomic Energy Research Institute, ²Korea University)

P1-pl.019

Powder and Pebble Fabrication of Li₂TiO₃ for Tritium Breeding Material by Solid-state Reaction Process / PARK Yi-Hyun*, CHO Seungyon, AHN Mu-Young, LEE Youngmin (National Fusion Research Institute)

P1-pl.020

ITER In-vessel coil용 버스바 시스템과 토카막 건물 방사선 영향 / 김봉철, 오종석* (국가핵융합연구소)

P1-pl.021

ITER 초전도자석 전원장치용 변압기의 제작 및 시험 현황 / 최정완, 이현곤* (국가핵융합연구소 ITER한국사업단)

P1-pl.022*

Classification of ITER TBM Set as Pressure Equipment Components for Construction Code Selection / KIM Dong Jun^{1,2}, PARK Seong Dae¹, YOON Jae-Sung¹, JIN Hyung Gon¹, LEE Eo Hwak¹, LEE Dong Won¹, CHO Seungyon³, KIM Suk-Kwon*¹ (¹Korea Atomic Energy Research Institute, ²Korea University, ³National Fusion Research Institute)

P1-pl.023

ITER Policy on Electronics Exposed to Nuclear Radiation / KIM

Chang-Shuk*¹, HONG Seong Pyo², KANG Bo Sun², CHO Seungyon¹, LEE Hyeon Gon¹ (¹National Fusion Research Institute, ²Konyang University)

P1-pl.024

ITER 코일전원장치용 Local 제어기 개발 현황 / 서재학, 오종석*
(국가핵융합연구소)

P1-pl.025

Skeleton methodology in the CAD model development of ITER thermal shield / KANG Kyoung-O, NAM Kwanwoo, KANG Dongkwon, CHUNG Wooho, LEE Hyeon Gon* (ITER Korea, National Fusion Research Institute)

P1-pl.026

Progress of ITER Vacuum Vessel Thermal Shield Fabrication / KANG Dong Kwon¹, NAM Kwanwoo¹, KANG Kyoung-O¹, PARK Won Woo¹, CHUNG Wooho¹, LEE Hyeon Gon*¹, KANG Youngkil¹ (¹ITER Korea, National Fusion Research Institute, ²SFA Engineering Corp.)

P1-pl.027

Design and Fabrication of the ITER Sector Sub-assembly Tool / NAM Kyoung¹, LEE Hyeon Gon*¹, PARK Soohyun¹, BAE Jinho¹, HA Minsu¹, CHUNG Sikun¹, MOON Jaehwan² (¹National Fusion Research Institute, ²SFA Inc.)

P1-pl.028

Complexity of R&D Issues for Realization of the ITER Tritium SDS / YUN S.-H.*¹, CHANG M.H.¹, KANG H.-G.¹, CHUNG D.¹, LEE H.G.¹, JUNG K.J.¹, CHUNG H.², SONG K.-M.³ (¹National Fusion Research Institute, ²Korea Atomic Energy Research Institute, ³Korea Hydro & Nuclear Power Co., Central Research Institute)

P1-pl.029

국제핵융합실험로 진공용기 포트 한국 조달품 제작 현황 / 문호규, 박철규, 김광호, 김유경, 홍권희, 김현수, 정우호, 이현곤* (국가핵융합연구소)

P1-pl.030

Investigation of MoS₂ Coating Conditions for Central Bolt Insert of Blanket System / JUNG Hunchea, KIM Sawoong, SHIM Heejin, CHUNG Wooho, LEE Hyeon Gon* (ITER Korea, National Fusion Research Institute)

P1-pl.031

Study on Application of Cu foam for Metal Hydride Bed / 정동유, 강현규, 윤세훈, 장민호, 이현곤* (국가핵융합연구소)

P1-pl.032

Effects of the Contact Resistance between the Breeding Material and the Wall Surface in the HCCR-TBM with Gas Flow Condition / PARK Seong Dae¹, LEE Dong Won¹, KIM Dong Jun^{1,3}, YOON Jae-Sung¹, JIN Hyung Gon¹, LEE Eo Hwak¹, AHN Mu-Young², KIM Suk-Kwon^{*1} (¹Korea Atomic Energy Research Institute, ²National Fusion Research Institute, ³Korea University)

P1-pl.033

VUV spectroscopy for impurity injection experiments in KSTAR plasmas using prototype ITER VUV spectrometers / 선창래¹, 홍주환², 송인우², 이현용², 전태민², 장주혁², 박재선², 최원호², 천문성¹, 박순일¹, 이현곤^{*1}, P. Bernascolle³, R. Barnsley³, 안영화¹ (¹국가핵융합연구소, ²한국과학기술원 물리학과, ³ITER Organization)

P1-pl.034

Design of the In-Wall Shielding for ITER Neutral Beam Port / KIM Hyunsoo¹, KIM Y. G.¹, PARK C. K.¹, KIM G. H.¹, MOON H. K.¹, HONG K. H.¹, CHUNG W. H.¹, SA J. W.², LEE H. G.^{*1} (¹National Fusion Research Institute, ²ITER Organization)

P1-pl.035

Sample Holder Design for Effective Thermal Conductivity Measurement of Pebble-bed using Laser Flash Method / LEE Youngmin^{*}, KU Duck Young, PARK Yi-Hyun, AHN Mu-Young, CHO Seungyon, LEE Hyeon Gon (National Fusion Research Institute)

P1-pl.036

ITER 코일전원장치 통합을 위한 마스터제어기 설계 및 제작 기술현황 / 최지현, 오종석^{*} (국가핵융합연구소)

P1-pl.037

ITER 이온공명가열장치 안테나 기술추적 현황 / 김선호^{*}, 정봉기 (한국원자력연구원)

P1-pl.038

Performance Testing of Cryogenic Hydrogen Absorption in PGLoop / PARK SoonChang^{*}, AHN Mu-Young, CHO Seungyon, PARK Yi-Hyun, LEE Youngmin, KU Duck Young (National Fusion Research Institute)

P1-pl.039

Dimensional measurement result of ITER Lower Port Stub Extension using Laser tracker / PARK Chulkyu, MOON Hokyu, LEE Hyeon Gon^{*}, CHUNG WooHo, KIM Hyun Soo, KIM Yu-gyeong (National Fusion Research Institute)

P1-pl.040

Development of PAUT Techniques for Single J Weld Configuration of Austenitic Steel / KIM Gwang-Ho¹, PARK Chul-Kyu¹, KIM Yu-Gyeong¹, MOON Ho-Kyu¹, HONG Kwon-Hee¹, KIM Hyun-Soo¹, CHUNG Woo-Ho¹, KIM Hak-Kun², SA Jeong-Woo², LEE Hyeon Gon^{*1} (¹National Fusion Research Institute, ²ITER Organization)

P1-pl.041

ITER 수소동위원소 회수기술 소개 / 정우찬^{*1}, 정필갑¹, 문흥만¹, 윤세훈², 이현곤² (¹대성산업가스 초저온연구소, ²국가핵융합연구소)

P1-pl.042

Importance in safety system design for ITER at hydrogen/dust explosion accident during lack of external power supply / LIM Soo Min, MOON Sung Bo, BANG In Cheol^{*} (Department of Nuclear Engineering, Ulsan National Institute of Science and Technology (UNIST))

P1-pl.043^{*}

Parametric study of hypothetical accident in the nuclear fusion demonstration reactor: Loss of coolant accident after hydrogen explosion / MOON Sung Bo, LIM Soo Min, BANG In Cheol^{*} (Department of Nuclear Engineering, Ulsan National Institute of Science and Technology (UNIST))

P1-pl.044

Final Design of ITER Sector In-pit Assembly Tool / HA Min-Su, BAE Jinho, NAM Kyounggo, CHUNG Sikun, PARK Soo-Hyeon, LEE Hyeon Gon^{*} (National Fusion Research Institute)

P1-pl.045

The Final Design of the ITER Sector Lifting Tools / BAE Jinho, HA Minsu, NAM Kyounggo, CHUNG Sikun, PARK Soo-Hyeon, JUNG Wooho, LEE Hyeon Gon^{*} (National Fusion Research Institute)

P1-pl.046

Comparisons between ITER Fusion Magnet Conductor and other CICC Nb₃Sn Cable Designs / KWON Soun Pil^{*} (ITER Korea, National Fusion Research Institute)

P1-pl.047

ITER Collaboration Scheme for CAD / HWANG Hyun-Sung^{*}, YANG Junseok, LEE Hyeon Gon (National Fusion Research Institute)

P1-pl.048

핵융합 연료주기 관련 ITER 삼중수소 공정에 대한 국내 연구 현황

/ 장민호¹, 윤세훈¹, 강현구¹, 정동유¹, 정흥석², 송규민³, 정우찬⁴, 조정호⁵,
이의수⁶, 이현곤*¹ (¹국가핵융합연구소, ²한국원자력연구원, ³한수원 중앙연구원,
⁴대성산업가스, ⁵국립공주대학교, ⁶동국대학교)

Hanging posters: 2017. 04. 19 Wednesday 13:00 – 04. 20 Thursday 12:00

Presentation: 2017. 04. 19 Wednesday 18:00 - 19:30

Place: Exhibition Hall

P1-se,001 *

The fabrication of suspended membrane filter using KOH wet etching/ HWANG Shinae¹, HAN Ilki⁴, LEE Seongjae⁵, JANG Moongyu^{*1, 2,3} (¹Department of Nano-Medical Devices Engineering, Hallym University, ²Department of material science and engineering, Hallym University, ³Integrative Materials Research Institute, Hallym University, ⁴Nanophotonics research center, Korea Institute of Science and Technology, ⁵Department of Physics, Hanyang University)

P1-se,002

전자밀도에 따른 AZO박막의 전기광학적 특성 / 오병성^{*}, 김재석¹, 우시관²
(¹충남대학교 물리학과, ²주그린광학)

P1-se,003 *

Tin을 촉매로 성장된 twinned Zn₃P₂ 나노선의 결정 성장 연구 / 최선빈, 송만석, 김용^{*} (동아대학교 물리학과)

P1-se,004 *

가지구조를 가진 Wurtzite ZnTe 나노선 / 송만석, 최선빈, 김용^{*} (동아대학교 물리학과)

P1-se,005

Photoluminescence dynamics and photocatalytic activity of ZnS nanostructures / MAN Minh Tan, LEE Hong Seok^{*} (Department of Physics, Chonbuk National University)

P1-se,006 *

Quantum confinement in CdSe and CdSe/CdS nanoheterostructures / KIM Sung Hun, MAN Minh Tan, LEE Hong Seok^{*} (Department of Physics, Chonbuk National University)

P1-se,007

타원편광분석법에 의한 AlGaIn박막의 결정구조와 광학적 특성 / 김대중¹, 이종원^{*2} (¹한밭대학교 기초과학부, ²한밭대학교 신소재공학과)

P1-se,008

Electrical characterization of InP/InGaAs/InP structures grown by metalorganic chemical vapor deposition / VU Oanh Thi Kim¹, LEE Kyoung Su¹, KIM Eun Kyu^{*1}, LEE Sang Jun² (¹Department of Physics, Hanyang University, ²Division of Convergence Technology, Korea Research Institute of

P1-se.009

Optical Transitions of an InGaP-AlInGaP Semiconductor Single Quantum Well under High Magnetic Fields / KIM Yongmin^{*1}, SHIN Y. H.¹, SONG J. D.² (¹Department of Physics, Dankook University, ²Korea Institute of Science and Technology (KIST))

P1-se.010*

청색-보라 파장 대역 InGaN/GaN 양자 우물의 광학적 특성 / 조일욱¹, 지소영¹, 류미이^{*1}, 이관재², 김진수² (¹강원대학교 물리학과, ²전북대학교 전자정보재료공학과)

P1-se.011*

성장 온도 변화에 따른 InGaN/GaN 녹색 발광 다이오드의 발광 특성 변화 / 조일욱¹, 박소현¹, 류미이^{*1}, 이관재², 김진수² (¹강원대학교 물리학과, ²전북대학교 전자정보재료공학과)

P1-se.012

HRXRD를 이용한 III/V족 양자형 반도체 소자의 박막구조 분석 / 최민혁^{1,2}, 김창수^{*1}, 송승우¹, 정인영¹, 이상준¹, 김준오¹ (¹한국표준과학연구원, ²충남대학교)

P1-se.013*

Strain evolution in two-step grown GaAs/AlGaAs multiple quantum well structures: Raman scattering study / 이태건¹, 노희석^{*1}, 송진동², 최원준² (¹전북대학교 물리학과, ²한국과학기술연구원 광전자소재연구단)

P1-se.014

Study of amorphous VO₂ films on Polyimide by using RF sputtering for flexible applications / 정대호, 소현섭, 황상빈, 안재성, 이호선^{*} (경희대학교 물리학과)

P1-se.015

Optical Properties of Sn-doped ZnO Thin Films Studied with Spectroscopic Ellipsometry : Band Gap Energy Shift and Burstein-Moss effect / 소현섭, 황상빈, 정대호, 이호선^{*} (경희대학교 응용물리학과)

P1-se.016

Scavenging of galvinoxyl spin 1/2 radicals in organic spintronics / LEE J.-K.^{*1}, CHO J.-M.² (¹Department of Physics, Chonbuk National University, ²Research Institute, TOPn Co., Ltd.)

P1-se.017*

Fabrication and Electrical Characterization of Pentacene Field-

Effect Transistors with PVDF-HFP Ferroelectric Insulator / JYOTHI Chintalapalli, ZHANG Xue, LEE Hyeonju, PARK Jaehoon* (Department of Electronic Engineering, Hallym University)

P1-se.018*

Enhanced optical absorption in MoS₂ integrated on Si nanocone arrays / KIM Eunah, KWON Soyeong, CHO Yunae, KIM Dong-Wook* (Department of Physics, Ewha Womans University)

P1-se.019*

Two dimensional MoS₂-WSe₂ heterojunction combined with PbS quantum dot for high performance photodetector / LEE Hyosun, KIM Juyoung, HWANG Do Kyung* (Center for Opto-Electronic Materials and Devices, Post-Silicon Semiconductor Institute, Korea Institute of Science and Technology (KIST))

P1-se.020*

그래핀/은나노선/그래핀 투명전도성 전극을 이용한 Si 태양전지의 제작 및 특성 / 서상우, 김종민, 이하승, 신동희, 김주환, 강수석, 김성, 최석호* (경희대학교 응용물리학과)

P1-se.021

산화갈륨 광전기화학적 반응을 통한 무전력 자외선-C 색체계 센서 / 임성연, 김승두, 윤영빈, 한국인, 이인규, 황완식* (Department of Materials Engineering, Korea Aerospace University)

P1-se.022

Ga₂O₃ Wide Bandgap Semiconductor Nanowires Synthesized By Electrospinning Method / YOON Youngbin, HAN Kook In, LEE In Gyu, HWANG Wan Sik* (Department of Materials Engineering, Korea Aerospace University)

P1-se.023*

Strong polarization anisotropy of coherent phonons in black phosphorus / 박정재, 이기주*, 정태영 (충남대학교 물리학과)

P1-se.024*

경사각 증착법을 통한 무반사 TiO₂ 나노구조 제작 및 광학적 특성 분석 / 김상훈, 이수현, 유재수* (경희대학교 전자전파공학과)

P1-se.025

금속-반도체-금속 구조를 갖는 다층 MoS₂ 기반의 근자외선 광검출기 제작 및 특성 / 이수현, 김상훈, 이승현, 유재수* (경희대학교 전자전파공학과)

P1-se.026*

Near-field Investigation of Monolayer WS₂ for Visualization of Exciton Profiles / LEE Yongjun^{1,2}, YUN Seok Joon^{1,2}, KIM Youngbum^{1,2}, KIM Min Su², HAN Gang Hee², KIM Jeongyong^{*1,2} (¹Department of energy science, Sungkyunkwan University, ²IBS Center for Integrated Nanostructure Physics)

P1-se.027

Electronic and optoelectronic performances of heterojunction structure with multilayer MoS₂ on Si substrates / SONG Da Ye, CHU Dongil, LEE Seung Kyo, PAK Sang Woo, KIM Eun Kyu* (Department of Physics, Hanyang University)

P1-se.028

NO gas sensing properties of AlGaIn/GaN HEMTs at room temperature under UV irradiation / NGUYEN Hoang Hai¹, REDDEPPA Maddaka¹, PARK Byung-Guon¹, LEE Sang-Tae¹, KIM Moon-Deock^{*1}, OH Jae-Eung², KIM Song-Gang³ (¹Department of Physics, Chungnam National University, ²School of Electrical and Computer Engineering, Hanyang University, ³Department of Information and Communications, Joongbu University)

P1-se.029

Enhanced photo response of UV photo detectors based on Graphene oxide/GaN nanorods / REDDEPPA Maddaka¹, PARK Byung-Guon¹, LEE Sang-Tae¹, HOANG HAI Nguyen¹, KIM Moon-Deock^{*1}, OH Jae-Eung², KIM Song-Gang³ (¹Department of Physics, Chungnam National University, ²School of Electrical and Computer Engineering, Hanyang University, ³Department of Information and Communications, Joongbu University)

P1-se.030

Effect of a tilted magnetic field and the Rashba effect on spin transport properties / PARK Dae Han, KIM Heesang, KIM Namme* (Department of Physics, Soongsil University)

P1-se.031*

Edge Metal-Semiconductor-Metal Junction THz Detector with Giant Responsivity / JUNG Sungchul¹, JEON Youngeun², JIN Hanbyul³, KIM Kyung Rok³, PARK Wook-Ki⁴, HAN Seong-Tae⁵, PARK Kibog^{*1,3} (¹Department of Physics, Ulsan National Institute of Science and Technology (UNIST), ²R&D Center, SEMES, ³School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology, ⁴Technology convergence Center, ⁵Korea Electrotechnology Research Institute)

P1-se.032*

Synthesis of rare-earth ions doped calcium molybdate

nanomaterials and their latent finger print detection applications
/ LANKAMSETTY Krishna Bharat, GANJI Seeta Rama Raju, YU Jae Su*
(Department of Electronics and Radio Engineering, Kyung Hee University)

Hanging posters: 2017. 04. 19 Wednesday 13:00 – 04. 20 Thursday 12:00

Presentation: 2017. 04. 19 Wednesday 18:00 - 19:30

Place: Exhibition Hall

P1-st.001

Tricriticality in cooperative contagion on heterogeneous structure
/ CHUNG Kihong¹, BAEK Yongjoo², KIM Daniel¹, HA Meesoon^{*3}, JEONG Hawoong⁴ (¹Natural Science Research Institute, KAIST, ²Department of Physics, Technion, ³Department of Physics Education, Chosun University, ⁴Department of Physics and Institute for the BioCentury, KAIST)

P1-st.002*

Non-local dynamic critical behavior of the one-dimensional XY model with long-range interaction / YANG Seong-Gyu^{*1}, PARK Hye Jin², KIM Beomjun¹ (¹Department of Physics, Sungkyunkwan University, ²Department of Evolutionary Theory, Max-Planck Institute for Evolutionary Biology)

P1-st.003

Implementation of higher-order tensor renormalization group method in 2D ising model / 홍성표, 김동희* (광주과학기술원 물리·광과학과)

P1-st.004

Approximate Calculation of the Partition Function Zeros of the Square-Lattice Ising Model with the Wang-Landau Monte Carlo Algorithm / KIM Seung-Yeon* (School of Liberal Arts and Sciences, Korea National University of Transportation)

P1-st.005

Amplitude Ratios between the Geometrical Quantities of the Square-Lattice Interacting Self-Avoiding Walks / LEE Jae Hwan¹, LEE Julian¹, KIM Seung-Yeon^{*2} (¹School of Systems Biomedical Science, Soongsil University, ²School of Liberal Arts and Sciences, Korea National University of Transportation)

P1-st.006

Meshfree local radial basis function collocation method with image nodes / BAEK Seung Ki*, KIM Minjae (Department of Physics, Pukyong National University)

P1-st.007*

New Description of Grand Canonical Systems and Time Evolution of Entropy / WOO JunHyuk¹, GOH Segun¹, FORTIN Jean-Yves^{2, 3}, CHOI MooYoung^{*1} (¹Department of Physics and Astronomy and Center for theoretical

physics, Seoul National University, ²Institut Jean Lamour, Groupe de Physique Statistique, ³Département de Physique de la Matière et des Matériaux, Vandoeuvre-lès-Nancy)

P1-st.008

Chaos when Win-Stay-Lose-Shift loses stability / YOU Taekho¹, KWON Minji¹, JO Hang-Hyun², BAEK Seung Ki^{*3} (¹Department of Industrial and Management Engineering, POSTECH, ²Department of Physics, POSTECH, ³Department of Physics, Pukyong National University)

P1-st.009*

Seoul Traffic Simulation based on raw Taxi Big Data / KIM Hyun-Soo* (Department of Physics, University of Seoul)

P1-st.010*

Growth Conditions on a Model of Evolving Open System / 박영재, 김영진, 손승우* (한양대학교 응용물리학과)

P1-st.011

What makes companies survive: Patterns in financial ratio since 1970s / CHO Jinsam, YANG Jae-Suk* (Graduate School of Future Strategy, KAIST)

P1-st.012*

Scale-free Active Behavior of Human Activity / 이지혜¹, 고세건¹, 김종원², 최무영^{*1} (¹Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University, ²Department of Healthcare Information Technology, Inje University)

P1-st.013

Characterizing the Chart Performance Dynamics of Cultural Products / SHIN Seungkyu, PARK Juyong* (Graduate School of Culture Technology, KAIST)

P1-st.014

Ecological feedback on spatial dynamics with social dilemmas / 박혜진*, Chaitanya S. Gokhale (Max Planck Institute for Evolutionary Biology)

P1-st.015

Spatial and temporal fluctuations in strongly heterogeneous networks / YOO Hyung-Ha, LEE Deok-Sun* (Department of Physics, Inha University)

P1-st.016*

Product price and flow change in an agricultural distribution

network / KIM Beom Jun*, LEE Daekyung (Department of Physics, Sungkyunkwan University)

P1-st.017*

Correlated evolution of export product shares and economic power / CHOI Sung-gook, LEE Deok-sun* (Department of Physics, Inha University)

P1-st.018*

Unifying framework of mobility models by population landscape / HONG Inho¹, JUNG Woo-Sung^{1, 2, 3}, JO Hang-Hyun*^{1, 4} (¹Department of Physics, POSTECH, ²Department of Industrial and Management Engineering, POSTECH, ³Asia Pacific Center for Theoretical Physics, ⁴Department of Computer Science, Aalto University School of Science)

P1-st.019

위키피디아 문서의 편집 패턴 특성 / 손우식* (국가수리과학연구소)

P1-st.020

Dynamical behavior of multifractals in meteorological factors / KIM Kyungsik* (Department of Physics, Pukyong National University)

P1-st.021

Power-grid Data into a Network Structure / KIM Heetae*¹, ROJAS David Olave², ALVAREZ-MIRANDA Eduardo², SON Seung-Woo*³ (¹Asia Pacific Center for Theoretical Physics, ²Department of Industrial Engineering, Universidad de Talca, ³Department of Applied Physics, Hanyang University)

P1-st.022*

The effects of chiral additives on chromonic liquid crystals confined in cylindrical capillary / EUN Jonghee¹, KIM Sungjo², JEONG Joonwoo*¹ (¹Department of Physics, UNIST, ²Center for Soft and Living Matter, Institute for Basic Science)

P1-st.023*

Spontaneous alignment of confined lyotropic chromonic liquid crystals and effects of dopants on the alignment direction / LEE Hyesong, JEONG Joonwoo* (Department of Physics, UNIST)

P1-st.024*

Numerical Studies of Super-Helical filaments at surfaces: Kinetics and Elastic responses / CHAE Min-Kyung¹, KIM YunHa¹, JOHNER Albert², LEE Nam-Kyung*^{1, 2} (¹Department of Physics, Sejong University, ²Institut Charles Sadron, Université de Strasbourg, CNRS UPR22)

P1-st.025*

Irreversible adsorption of Worm Like Chains: Alignment Effect
/ KIM Yunha¹, CHAE Min-Kyung¹, JUNG Youngkyun², JOHNER Albert³, LEE
Nam-Kyung^{*1,3} (¹Department of Physics, Sejong University, ²National Institute
of Supercomputing and Networking, KISTI, ³Institut Charles Sadron, University of
Strasbourg)

P1-st.026

**Active motions of nematic colloids under oscillating pressure
fields** / 김성조¹, 임재관², 정준우^{*2} (¹IBS Center for Soft and Living Matter,
²UNIST Department of Physics)

P1-st.027*

**Network analysis on the conformational transition of c-Src
tyrosine kinase** / YOON Hyun Jung¹, PARK Sun Joo², WU Sangwook^{*1}
(¹Department of Physics, Pukyong National University, ²Department of Chemistry,
Pukyong National University)

P1-st.028

**Study of the Eighty-Nine-Residue Fibonacci Sequence Protein in a
Three-Dimensional AB Model** / KIM Seung-Yeon^{*} (School of Liberal Arts
and Sciences, Korea National University of Transportation)

P1-st.029

**Refining a free-energy approach for the compaction of a flexible
chain** / KIM Juin^{*} (Department of Physics, Korea Air Force Academy)

P1-st.030*

**Free energy landscape of the DNA hairpin d(ATCCAT-GTTA-
TAGGAT) using molecular dynamics simulation** / YOON Hyun Jung¹,
CHUN Honggu², WU Sangwook^{*1} (¹Department of Physics, Pukyong National
University, ²Department of Biomedical Engineering, Korea University)

P2-ap.1Applied physics: Materials synthesis/Magnetism
/Surface/Photonics/Organic/Bio | 포스터 발표

Hanging posters: 2017. 04. 20 Thursday 13:00 – 04. 21 Friday 12:00

Presentation: 2017. 04. 20 Thursday 18:00 - 19:30

Place: Exhibition Hall

P2-ap.101**동위원소 ^{57}Fe 를 치환한 LiMnPO_4 양극물질의 자기적 특성 연구 / 최현경, 황필순, 김철성*** (국민대학교 물리학과)**P2-ap.102** **$\text{Fe}_3\text{O}_4@\text{ZnFe}_2\text{O}_4$ 나노입자의 자기적 및 발열 특성 연구 / 최현경, 박정호, 김삼진, 김철성*** (국민대학교 물리학과)**P2-ap.103*****Direct growth of graphene on SiO_2 substrate using thin layer of Cu catalyst. / HAIDARI Mohammad Musaib, CHOI Jinsik*** (Department of Physics, Konkuk University)**P2-ap.104****Crystal growth, Structural and low temperature thermoluminescence studies on cubic fluoroperovskite single crystal (LiBaF_3) / DEVASIRVATHAM Joseph Daniel, KIM Hongjoo*** (Department of Physics, Kyungpook National University)**P2-ap.105*****Electrical Properties of CVD Grown Twisted Bilayer Graphene / 김진홍, 최진식*** (건국대학교 물리학과)**P2-ap.106*****Coexistence of SnO and SnO_2 nanowires synthesized by thermal CVD process under hydrogen ambient / JUNG Won, KANG Hyon Chol*** (Department of Materials Science and Engineering, Chosun University)**P2-ap.107*****Temperature-dependent unsystematic band gap shift of Hybrid Organic-Inorganic Perovskite (HOIP) Photovoltaic Materials / PARK Sangheon¹, SEO Yu-Seong¹, AHN Chang Won², WOO Won Seok², KYHM Jihoon³, KYHM Kwangseuk⁴, KIM Ill Won², HWANG Jungseek^{*1}** (¹Department of Physics, Sungkyunkwan University, ²Department of Physics & EHSRC, University of Ulsan, ³Quantum functional semiconductor research center, Dongguk university, ⁴Department of Physics Education, Pusan National University)**P2-ap.108*****Sn-doped $\beta\text{-Ga}_2\text{O}_3$ nanowires deposited by radio frequency**

powder sputtering / KIM So Jin, KANG Hyon Chol* (Department of Materials Science and Engineering, Chosun University)

P2-ap.109*

X-ray induced synthesis of plasmonic Au nanoparticles on ZnO nanowire arrays / CHA Su Yeon¹, LEE Su Yong², NOH Do Young³, KANG Hyon Chol^{*1} (¹Department of Materials Science and Engineering, Chosun University, ²Pohang Accelerator Laboratory, POSTECH, ³Department of Physics and Photon Science & School of Materials Science and Engineering, GIST)

P2-ap.110*

Multiferroic Fe, Co doped Bi_{3.25}La_{0.75}Ti₃O₁₂ films at room temperature / AN Hyunji¹, JUNG Soongil², KIM Bongjae³, JEONG SangYun¹, SONG Jaesun¹, HAN JunYoung⁴, PARK Tuson², BARK ChungWung^{*4}, LEE Sanghan^{*1} (¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology, ²Department of Physics, Sungkyunkwan University, ³Faculty of Physics and Center for Computational Materials Science, University of Vienna, ⁴Department of Electrical Engineering, Gachon University)

P2-ap.111*

Effect of sintering temperature in Eu²⁺ doped Ca₄(PO₄)₂O red emitting phosphors synthesized by high-energy ball milling / HONG Woo Tae, PARK Sung Jun, PARK Jin Young, YANG Hyun Kyoung* (Department of LED Convergence Engineering, Pukyong National University)

P2-ap.112*

Thermoelectric properties in the vicinity of breakdown of topological crystalline insulator Pb_{0.7}Sn_{0.3}Se by Cl-doping / LIN Chan-Chieh, KIM Ga Reoung, GINTING Dianta, RHYEE Jong-Soo* (Department of Applied Physics and Institute of Natural Sciences, Kyung Hee University)

P2-ap.113*

Growth mode change and buckling phenomena in PVD-grown MoSe₂ films / 양승준¹, 이양진², 최진식³, 김혁진⁴, 김관표², 장영준^{*1} (¹서울시립대 물리학과, ²UNIST 물리학과, ³건국대 물리학과, ⁴서울시립대 에너지환경시스템공학과)

P2-ap.114*

Thermal camouflage characteristics of VO₂ thin films / 최영환¹, 이동규¹, 양승준¹, 김혁진², 장영준^{*1} (¹서울시립대 물리학과, ²서울시립대 에너지환경시스템공학과)

P2-ap.115

고성능 반도체 센서를 위한 마이크로파 조사 기반의 촉매형 나노입자의

합성 및 물리적 특성 연구 / 최선우, 이동진, 변영태* (한국과학기술연구원
센서시스템연구센터)

P2-ap.116*

Temperature Dependence of Dielectric Functions of $\text{Bi}_{1.85}\text{Gd}_{0.15}\text{Te}_3$ by Spectroscopic Ellipsometry / NGUYEN Hoang Tung^{1,2}, KIM Tae Jung^{*1}, PARK Han Gyoel¹, LE Van Long^{1,2}, KIM Jinsu³, JUNG Myung-Hwa³, KIM Young Dong^{*1} (¹Department of Physics, Kyung Hee University, ²Institute of Materials Science, Vietnam Academy of Science and Technology, ³Department of Physics, Sogang University)

P2-ap.117

Effect of CuO Content on Optical Absorption Spectra and Structural Properties of $\text{Li}_2\text{O-B}_2\text{O}_3\text{-CuO}$ Glasses / 노태호, 김영훈, 최덕, 송승기* (Department of Physics, Myongji University)

P2-ap.118*

Preparation of $\text{Sr}_2\text{SiO}_4:\text{Eu}^{2+}$ phosphors by microwave-assisted sintering / LEE Woo Cheol, MUN Ju Young, PARK Jin Young, YANG Hyun Kyoung* (Department of LED Convergence Engineering, Pukyong National University)

P2-ap.119*

Formation and stability of vertical-Bloch-lines in canted antiferromagnetic rare-earth orthoferrites / 최인혁, 이종석* (광주과학기술원 물리·광과학과)

P2-ap.120

Property of Fusional Giant Magnetoresistance-Spin Valve Film for the Application of Bio-sensor / LIM Hodae, PUREVDORJ Khajidmaa, CHOI Jong-Gu, LEE Sang-Suk* (Department of Oriental Biomedical Engineering, Sangji University)

P2-ap.121

The micromagnetic simulation studies about formation of skyrmion state by controlling interfacial Dzyaloshinskii-Moriya interaction / CHO Jaehun^{*1}, TAMURA Eiiti¹, NAWAOKA Kohei¹, MIWA Shinji^{1,3}, YOU Chun-Yeol², SUZUKI Yoshishige^{1,3} (¹Graduate School of Engineering Science, Osaka University, ²Department of Emerging Materials Science, DGIST, ³Center for Spintronics Research Network (CSRN), Osaka University)

P2-ap.122*

Thermal transport measurement in thin films and their boundaries by using time-domain thermoreflectance (TDTR)

method / CHOI Young Gwan¹, ZHUNG Chan June¹, WOO Sung Min², CHOI Woo Seok², LEE Jong Seok^{*1} (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Department of Physics, Sungkyunkwan University)

P2-ap.123

DC 마그네트론 스퍼터링을 이용해 증착한 전극층에 따른 PTC 써미스터의 전기적 특성 / 이수민, 이용제*, 김광수 (군산대학교 물리학과)

P2-ap.124*

Diffusion process and hydrogen dissociation of borazine on Pt(111) / PARK Karam, JEONG Sukmin* (Department of Physics, Jeonbuk National University)

P2-ap.125*

유리 기판에서 PDMS 접촉을 이용한 네마틱 액정의 수직 배향 형성 / 조혜성, 김종현* (충남대학교 물리학과)

P2-ap.126

Fabrications of ZnO:Me (Me = Li, Al) thin films by using the Spin Coating Depositions / JUN Byeongeog^{*1}, CHUNG Hye Won², KIM Yeon Woo², LEE Jong-Rim¹ (¹Department of Physics and Earth Science, Korea Science Academy of KAIST, ²Korea Science Academy of KAIST)

P2-ap.127

HOPG 타깃과 열처리를 통한 그래핀 제작 / 천미연¹, 정보광², 정세영^{*2, 3} (¹부산대학교 단결정은행 연구소, ²부산대학교 인지메카트로닉스공학과, ³부산대학교 광메카트로닉스공학과)

P2-ap.128*

Rapid Replication of Nanostructures using a Pulsed Ultrahigh-Voltage in Electrohydrodynamic Lithography / HWANG Jae Seok, KANG Dae Joon* (Department of Physics and Energy Science, Sungkyunkwan University)

P2-ap.129*

고품질 Free-standing 구리 박막 제조 / 정보광¹, 천미연², 정세영^{*1, 3} (¹부산대학교 인지메카트로닉스공학과, ²부산대학교 단결정은행 연구소, ³부산대학교 광메카트로닉스공학과)

P2-ap.130

산화 실리콘 막을 이용한 다결정 실리콘 박막의 형성 / 김대관, 이종민, 윤종환* (강원대학교 물리학과)

P2-ap.131*

Surface flattening of laser-induced pattern on Si during wet-etching process / LEE Si Woo¹, JO Kuk Hyun¹, KEUM HeeSung¹, CHAE Sangmin¹, CHOI Jiyeon^{*2}, LEE Hyun Hwi^{*2}, KIM Hyo Jung^{*2} (¹Department of Organic material science and Engineering, Pusan National University, 2Korea Institute of Machinery and Materials)

P2-ap.132

초기 환경의 변화에 따른 박막 성장의 변화에 관한 연구 / Jeong Jin* (Physics, Chosun University)

P2-ap.133

SiO₂층위에 형성된 SnO₂박막의 성장변화에 관한 연구 / Jeong Jin*, Lee Bong Ju (조선대학교 물리학과)

P2-ap.134

Structural and Electrical Properties of SnO₂ Thin Film According to the Change Deposition Powers / Jeong Jin*, Lee Bong Ju (Physics, Chosun University)

P2-ap.2Applied physics: Materials synthesis/Magnetism
/Surface/Photonics/Organic/Bio II 포스터 발표

Hanging posters: 2017. 04. 20 Thursday 13:00 – 04. 21 Friday 12:00

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Place: Exhibition Hall

P2-ap.201**Design and simulation of anechoic chamber which is composed of metamaterial absorber** / YI Changhyun, RHEE Joo Yull* (Department of Physics, Sungkyunkwan University)**P2-ap.202*****Silver nanowire-ITO nanodot nanostructure as a transparent conductive electrode in ultraviolet light-emitting diodes** / LEE Gun Hee¹, SEO Tae Hoon², KIM Hee Su^{1, 2}, YEO Dong Kyu^{1, 2}, KIM Myung Jong², SUH Eun-Kyung*² (¹Semiconductor Physics Research Center, Chonbuk National University, ²Applied Quantum Composites Research Center, Korea Institute of Science and Technology)**P2-ap.203*****Novel red-emitting $\text{Y}_4\text{Zr}_3\text{O}_{12}:\text{Eu}^{3+}$ nanophosphor for latent fingerprint technology** / LEE Joo Hyun, PARK Jin Young, YANG Hyun Kyoung* (Department of LED Convergence Engineering, Pukyong National University)**P2-ap.204*****전기 광학적 센서 연구를 위한 콜레스테릭 액정 피치의 동적 변화 측정 / 고명옥¹, 김성조², 김종현¹, 전민용*¹** (¹충남대학교 물리학과, ²Center for Soft and Living Matter, Institute for Basic Science)**P2-ap.205****Polarization independent ultrathin high impedance surface in microwave regime** / 허민성¹, 서일성², 신종화*¹ (¹한국과학기술원 신소재공학과, ²국방과학연구소)**P2-ap.206*****Upconversion Properties of Tm^{3+} / Yb^{3+} co-doped $\text{Na}_{0.5}\text{Gd}_{0.5}\text{MoO}_4$ phosphor** / LEE Yu Jin, LEE Joo Hyun, YANG Hyun Kyoung* (Department of LED Convergence Engineering, Pukyong National University)**P2-ap.207****4D 프린팅 기반 프로그래머블 메타물질 연구 / 임성찬, 정훈엽, 안수찬, 전영철*** (울산과학기술원(UNIST) 신소재공학부)

P2-ap.208*

유연하고 신축성이 있는 실크 필름을 기반으로 제작한 RF 안테나 / 조민식¹, 김숙영¹, 민경택¹, 김성환^{*1, 2} (¹아주대학교 에너지시스템학과, ²아주대학교 물리학과)

P2-ap.209*

Electrical Transport Characteristics of Self-Assembled Monolayers Formed by Benzenthioi, Cyclohexanethiol, and Adamantanethiol /

김준우¹, 정현학¹, 성시천², 김동구¹, 황왕택¹, 장연식¹, 최유리¹, 구정민¹, 노재근^{*2}, 이택희^{*1} (¹Department of Physics and Astronomoy, Seoul National University, ²Department of Chemistry, Hanyang University)

P2-ap.210*

Dependence of Metal Electrode on Switching Polarity of Organolead Halide Perovskite Memory Device / HAM Seong-gil, WANG Gunuk* (KU-KIST Graduate School of Converging Science and Technology, Korea University)

P2-ap.211*

Effect of Molecular Tilt Configuration on Charge Transport in Molecular Junction with Different Contact Coupling / SHIN Jaeho, WANG Gunuk* (KU-KIST Graduate School of Converging Science and Technology, Korea University)

P2-ap.212*

시간분해발광(Time Resolved Photoluminescence)을 이용한 Zr₆ 기반 금속유기골격구조체(MOF)의 파이렌, 포르피린 리간드 비율에 따른 에너지 전이 차이 분석 / 서창원^{1, 2}, 이주복^{1, 2}, 박경철³, 이창연³, 김정용^{*1, 2} (¹성균관대학교 에너지과학과, ²기초과학연구원(IBS) 나노구조물리연구단(CINAP), ³인천대학교 에너지화학공학과)

P2-ap.213*

Development of Organic/inorganic composite processing for hyper-structures / 정성범, 임은주* (단국대학교 창의융합제조공학과/과학교육과)

P2-ap.214*

Study of charge transport mechanism of organic semiconductors based on crystallization properties of TIPS and TIPS / CNW organic layer / 조성집, 임은주* (단국대학교 창의융합제조공학과/과학교육학과)

P2-ap.215*

히토류이온 도핑된 DNA-CTMA의 Judd-Ofelt 분석 / PAULSON Bjorn¹, SAUER Gregor², CHEON Seunguk¹, OH Kyunghwan^{*1} (¹Department of Physics, Yonsei University, ²Friedrich-Schiller University of Jena)

P2-ap.216

Using Polyetherimide Modified Poly(3,4-ethylenedioxyphenylene):Poly(styrene sulfonate) as a transparent Cathode of Perovskite Solar Cells / CHEN Li³, XIE Xiaoyin³, LIU Zhihai^{*2}, LEE Eun-Cheol^{*1} (¹Department of Nano-Physics, Gachon University, ²Department of Bio-Nano Technology, Gachon University, ³Department of Chemical Technology, Jilin Institute of Chemical Technology)

P2-ap.217*

Theoretical charge transport properties of pentacene with varying molecular orientation / LEE Hyunchan, KIM Hyunggi, LEE Jiyeon, LEE Hyunbok* (Department of Physics, Kangwon National University)

P2-ap.218*

Investigation on the electronic structure of PVK with photoelectron spectroscopy measurements and density functional theory calculations / LEE Jiyeon, CHO David, KIM Sora, LEE Hyunbok* (Department of Physics, Kangwon National University)

P2-ap.219

유기발광다이오드의 광추출효율 향상 필름의 광학구조 최적화에 관한 시뮬레이션 연구 / 박지수, 조봉진, 고재현* (한림대학교 응용광물리학과)

P2-ap.220*

Optoelectronic properties of P3HT films deposited with electrospray method / KIM Hyunggi, LEE Jiyeon, LEE Hyunchan, LEE Hyunbok* (Department of Physics, Kangwon National University)

P2-ap.221

탄소나노튜브를 함유한 유기태양전지에서 특성 저하의 임피던스 분석 / 유세기* (한국외국어대학교 전자물리학과)

P2-ap.222

Electronic structures at various substrates / perovskite interface / SEO JungHwa*, CHA MyungJoo, WALKER Bright* (Department of Physics, Dong-A University)

P2-ap.223

유기 발광 소자에서 임피던스 분석을 통한 단일 및 이중 전하 운반자의 거동 / 조호근¹, 허범용¹, 홍진웅², 송민종³, 김태완^{*1} (¹홍익대학교 정보디스플레이공학과, ²광운대학교 전기공학과, ³광주보건대학교 방사선과)

P2-ap.224*

Effect of counterions on interfacial dipoles in nonconjugated

polyelectrolytes / KANG juhwan, SEO junghwa*, WALKER Bright*
(Department of Physics, Dong-A University)

P2-ap.225

Improved performance in n-type organic field-effect transistors with non-conjugated polyelectrolytes / 박유정¹, 차명주¹, 조신욱², 김진영³, Bright Walker³, 서정화*¹ (¹동아대학교 물리학과, ²울산대학교 물리학과, ³울산과학기술원 에너지공학과)

P2-ap.226

Work function tuning of indium-tin-oxide electrodes of perovskite solar cells / XIE Xiaoyin³, LIU Zhihai*², LEE Eun-Cheol*¹ (¹Department of Nano-Physics, Gachon University, ²Department of Bio-Nano Technology, Gachon University, ³Department of Chemical Technology, Jilin Institute of Chemical Technology)

P2-ap.227

2색 편광형광상관분광법을 이용한 인간 염색체 말단소립의 확산 운동 분석 / 이재란, 김현기, 김석원* (울산대학교 물리학과)

P2-ap.228*

A label-free electrochemical DNA sensor by using molybdenum disulfide as an additive / LI Yiran, JIANG Huaide, LEE Eun-Cheol*
(Department of Nano-Physics, Gachon University)

P2-ap.229*

A Calculation of Radiation Damage to Tumor Cells in BNCT Based on the New Cell Model / LIU Dong*, WOO Jong-Kwan*, KO Jewou
(Physics Department, Jeju National University)

P2-ap.230

라만분광법을 이용한 대뇌 허혈-재관류 손상의 생화학적 특성 연구 / 정경복*, 이기자², 김도현³ (¹조선대학교 사범대학 물리교육과, ²경희대학교 의과대학 의공학교실, ³명지대학교 산업경영공학과)

P2-ap.231*

수소 감지를 위한 Palladium 나노 구조물의 합성 / 김종일, 김기출*
(목원대학교 신소재화학공학과)

P2-ap.232*

Synthesis of Dye-Doped Silica Nanoparticles Using a Stöber Method / 채예은, 김기출* (목원대학교 신소재화학공학과)

P2-ap.233*

고분자로 기능화된 **Core-Shell** 구조의 **Magnetite-Au Nanoparticle**의
합성 / 박주희, 김기출* (목원대학교 신소재화학공학과)

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P2-as.001

The effect of space radiation environment on Slewing Mirror Telescope / GAIKOV Georgii, JEONG Soomin, KIM Minbin, JEONG Hyomin, AGARADAHALLI Vikas, PARK Il H* (Department of Physics, Sungkyunkwan University)

P2-as.002*

Enhanced photon trap for large volume water Cherenkov detectors / IN Seongjin^{*1}, 장지승², 장한일³, 김재률⁵, 문동호⁵, 임인택⁵, 주경광⁵, 박명렬⁶, 최준호⁶, 유인태¹, ROTT Carsten¹, 권은향⁴, 김수봉⁴, 서선화⁴, 서현관⁴ (¹Department of Physics, Sungkyunkwan University, ²Gwangju Institute of Science and Technology, ³Seoyeong University, ⁴Seoul National University, ⁵Cheonnam National University, ⁶Dongshin University)

P2-as.003*

Solar atmospheric neutrino searches in IceCube / IN Seongjin*, JEONG Minjin (Department of Physics, Sungkyunkwan University)

P2-as.004*

The hit finding algorithm for UBAT telescope of UFFO / LEONOV Vladimir, KIM Minbin, JEONG Soomin, JEONG Hyomin, LEE Jik, PARK I.H.* (Department of Physics, Sungkyunkwan University)

P2-as.005*

Fisher matrix and Parameter Estimation in nonspinning NS-NS mergers / CHOI Yong-Beom¹, CHO Hee-Suk², LEE Chang-Hwan^{*3} (¹Department of Astronomy and Atmospheric Sciences, Kyungpook National University, ²Extreme Physics Institute, Pusan National University, ³Department of Physics, Pusan National University)

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P2-bp.001

Metal-Ion Exchange at an Enzyme Active Site Causes Heterogeneity in an Enzymatic Activity / YOO Jungmin, LEE Gwangro^{*} (School of life Sciences, Gwangju Institute of Science and Technology)

P2-bp.002*

Molecular dynamics simulation of cytotoxicity of graphene nanosheets to blood-coagulation protein / JO Byeong Cheol¹, YOON Hyun Jung¹, OK Myoung-Ryul², WU Sangwook^{*1} (¹Department of Physics, Pukyong National University, ²Center for Biomaterials, Korea Institute of Science & Technology)

P2-bp.003

Inositol pyrophosphates inhibit synaptotagmin- dependent exocytosis / LEE Tae-Sun, LEE Chanwoo, YOON Tae-Young^{*} (School of Biological Science, Seoul National University)

P2-bp.004

Observing the mechanical properties of epigenetically modified chromatin using magnetic tweezers / SOHN Byeong-Kwon, LEE Hongsoo, PARK Chanho, KIM Hajin^{*} (Department of Biomedical Engineering, Ulsan National Institute of Science and Technology (UNIST))

P2-bp.005

Bottom-Up Chromosome Reconstruction for Discovering the Molecular Determinants of Chromosome Structure / LEE Hongsoo, KIM Hajin^{*} (School of Life Science, UNIST)

P2-bp.006*

Single molecule biophysical study of the transcription initiation dynamics in yeast mitochondria / CHO Hayoon¹, KIM Hajin^{*1}, BASU Urmimala^{*2}, PATEL smita S^{*2}, DESHPANDE Aishwarya^{*2} (¹Department of Biomedical Engineering, Ulsan National Institute of Science and Technology (UNIST), ²Department of Biochemistry and Molecular Biology, Rutgers University)

P2-bp.007

Cooperative intramolecular dynamics of Pin1 domains linked by intrinsically disordered region / CHO Hyewon¹, RYOSUKE Gawayaki²,

TATE Sinichi², KIM Hajin^{*2} (¹Department of Life Science, Ulsan National Institute of Science and Technology, ²Graduate school of Science, Hiroshima University)

P2-bp.008

단분자 추적 및 프렛 기술을 이용한 CRISPR-Cpf1 시스템의 표적 탐지 및 절단 메커니즘 연구 / 이계준^{1, 2}, 전용문¹, 구지영^{1, 2}, 정철현^{*1, 2}
(¹한국과학기술연구원 테라그노시스연구단, ²경희대학교-KIST 융합과학기술학과)

P2-bp.009*

Developing synthetic AAA+ ATPase protein complex disaggregase for Parkinson's disease / YOON Tae-Young*, KIM Haesoo, LEE Jae-Hwan
(Seoul National University)

P2-bp.010

Molecular mechanisms of atlastin-mediated ER membrane fusion revealed by a FRET-based single vesicle fusion assay / 장윤수¹, 김경태^{1, 3}, 문여진², 전영수², 이상화^{*1} (¹광주과학기술원 고등광기술연구소, ²광주과학기술원 생명과학부, ³광주과학기술원 화학부)

P2-bp.011

Study on the SNARE-mediated fusion inhibitory effect of α -Syn monomers and oligomers / YOO Gyeongji¹, LEE Namki^{*1} (¹School of Interdisciplinary Bioscience and Bioengineering (IBIO), POSTECH, ²Department of Chemistry, Seoul National University)

P2-bp.012

Probing the biophysical model for the diffusivity change of membrane proteins on artificial membrane / KIM Dong-Kyun¹, YOO Gyeongji¹, LEE Nam Ki^{*1} (¹School of Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technology, ²Department of Chemistry, Seoul National University)

P2-bp.013

Super-Resolution Imaging of Intercellular Nanotubes Nanostructure / OH Jae-Ho, CHANG Minhyeok, LEE Jong-Bong*
(Department of Physics, POSTECH)

P2-bp.014

Single Molecule Studies on tR2 Terminator / KANG Wooyoung^{1, 2}, UHM Heesoo^{1, 2}, HOHNG Sungchul^{*1, 2} (¹Department of Physics and Astronomy, Seoul National University, ²National Center of Creative Research initiatives, Seoul National University)

P2-bp.015

Study on the mechanosensitivity of the synaptic cell adhesion molecule neuroligin / RAH Sang-Hyun^{1,2}, KIM Hyun Woo^{1,2}, YOON Tae-Young^{*1,3} (¹National Creative Research Initiative Center for Single-Molecule Systems Biology, ²Department of Physics, KAIST, ³Department of Biological Sciences, Seoul National University)

P2-bp.016

Physical Coupling within an Enzyme-Substrate Complex Governs Enzymatic Activity During DNA Degradation Reaction / YOO Jungmin, LEE Gwangrog* (School of Life Sciences, Gwangju Institute of Science and Technology)

P2-bp.017

DNA sequence-dependent nucleosome remodeling by Chd1 / LEE Jongjin^{1,2}, HOHNG Sungchul^{*1,2,3,4} (¹Department of Physics and Astronomy, Seoul National University, ²National Center for Creative Research Initiatives, Seoul National University, ³Institute of Applied Physics, Seoul National University, ⁴Department of Biophysics and Chemical Biology, Seoul National University)

P2-bp.018*

Simultaneous observation of transcription of Arc mRNA and Ca²⁺ spikes in live hippocampal neurons / MOON Hyungseok Chad¹, DAS Sulagna³, SINGER Robert H^{2,3}, PARK Hye Yoon^{*1} (¹Department of Physics and Astronomy, Seoul National University, ²Transcription Imaging Consortium, Janelia Research Campus, Howard Hughes Medical Institute, ³Department of Anatomy and Structural Biology, Albert Einstein College of Medicine)

P2-bp.019

Single-molecule translation imaging in live cells / 김병주¹, 박주리², 박연경², 김윤기^{*2}, 이종봉^{*1} (¹포항공과대학교 물리학과, ²고려대학교 생명과학과)

P2-bp.020*

Building signaling complexes on pulled down HER2 dimers / CHA Minkwon, CHOI Byungsan, PARK Sangwoo, YOON Tae-Yong* (Department of physics, KAIST)

P2-bp.021*

Neuronal mRNA localization studied by glutamate uncaging / SHIM Jaeyoun, LEE Byunghun, MOON Hyungseok, PARK Hyeyoon* (Department of Physics, Seoul National University)

P2-bp.022*

Single Molecule Study for Co-Transcriptional and Post-

Transcriptional Regulation of Riboswitches / LIM Gunhyoung*
(Department of Physics and Astronomy, Seoul National University)

P2-bp.023

Tracking intermediate states of carbonic anhydrase during CO₂ release / KIM Jin Kyun, KIM Chae Un* (Department of Physics, Ulsan National Institute of Science and Technology)

P2-bp.024*

Axonal mRNA dynamics in live hippocampal neurons / 이병훈¹, 방석영², 이승렬², 전누리², 박혜윤^{*1} (¹서울대학교 물리학과, ²Institute of Advanced Machinery and Design, Div. of WCU (World Class University) Multi, Seoul Natl. Univ.)

P2-bp.025*

Single Molecule Studies on Rho-dependent Terminator / SONG Eunho³, HOHNG Sungchul^{*1, 2, 3} (¹Department of Physics and Astronomy, Seoul National University, ²National Center for Creative Research Initiatives, Seoul National University, ³Department of Biophysics and Chemical Biology, Seoul National University)

P2-bp.026

Measurement of Mechanical Properties of Live Individual Neurons using Optical Force Microscopy / LEE Ga-Young¹, JANG You-Na², LEE Kea Joo², KIM Kipom^{*1} (¹Research Division, Korea Brain Research Institute, ²Department of Structure & Function of Neural Network, Korea Brain Research Institute)

P2-bp.027*

Developing single-molecule well type assay with high-throughput device (SWAT) for probing protein-protein interactions / PARK Sangwoo*, LEE Hong-Won*, RYU Ji Young* (Proteina, Inc)

P2-bp.028*

iSCAT (Interferometric SCATtering) microscopy / LEE Il-Buem^{1, 2}, MOON Hyeon-Min^{1, 2}, JOO Jong-Hyun^{1, 3}, HONG Seok-Cheol^{*1, 2, 4}, CHO Minhaeng^{*1, 3} (¹Center for Molecular Spectroscopy and Dynamics, IBS, ²Dept. of Physics, Korea University, ³Dept. of Chemistry, Korea University, ⁴Korea Institute for Advanced Study)

P2-bp.029*

sHaRPer: algorithm that acquires kinetic information from slow transitions in smFRET measurements. / KIM Sung Eun^{1, 2}, LEE Il-Buem^{1, 2}, HYEON Changbong³, HONG Seok-Cheol^{*1, 2, 3} (¹Center for Molecular Spectroscopy and Dynamics, IBS, ²Department of Physics, Korea University, ³School

P2-bp.030

Analysis of Membrane Protein Diffusion Dynamics and Clustering Property in Living Cell Using DNA-PAINT Single Particle Tracking / AN Hyeongjeon¹, PARK Sanghyeon¹, KIM Dong-Kyun², LEE Nam Ki^{*1, 2} (¹Department of Physics, Pohang University of Science and Technology, ²School of Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technol)

P2-bp.031*

Regularly structured cell mosaics in retina can induce a geometrical correlation between orientation and spatial frequency maps in brain / JANG Jaeson¹, PAIK Se-Bum^{*1, 2} (¹Department of Bio and Brain Engineering, KAIST, ²Program of Brain and Cognitive Engineering, KAIST)

P2-bp.032*

A model study of neuronal excitability-dependent memory allocation in a feedforward neural network with spike-timing-dependent-plasticity / PARK Youngjin¹, PAIK Se-Bum^{*1, 2} (¹Department of Bio and Brain Engineering, KAIST, ²Program of Brain and Cognitive Engineering, KAIST)

P2-bp.033*

A simple plasticity rule induces a matched orientation map in visual cortex / SONG Min^{1, 2}, PAIK Se-Bum^{*1, 2} (¹Department of Bio and Brain Engineering, ²Program of Brain and Cognitive Engineering, KAIST)

P2-bp.034*

A comparative study on simultaneous versus sequential presentation of stimuli for working memory performance / LEE Hyeonsu¹, CHOI Woochul^{1, 2}, PAIK Se-Bum^{*1, 2} (¹Department of Bio and Brain Engineering, ²Program of Brain and Cognitive Engineering, Korea Advanced Institute of Science and Technology)

P2-bp.035*

Parametric Influence of the Auditory System on Human Visual Perception / SONG Jun Ho^{1, 3}, PAIK Se-Bum^{*1, 2} (¹Department of Bio and Brain Engineering,, ²Program of Brain and Cognitive Engineering, KAIST, ³Information and Electronics Research Institute, KAIST)

P2-bp.036

Energetic cost for extracting information of a molecular motor's position from its trajectory / HWANG Wonseok*, HYEON Changbong*

P2-bp.037

Molecular Explanation for the Opposite Ion Selectivity of Connexins 26 and 32 Hemichannels / YI Myunggi^{*1, 2}, DONG Hao³

(¹Department of Biomedical Engineering, Pukyong National University, ²Interdisciplinary Program of Biomedical, Mechanical and Electrical Engineering, Pukyong National Uni, ³Kuang Yaming Honors School, Nanjing University)

P2-bp.038

Implementation of HRV analysis system according to body position in ubiquitous healthcare environment by Bayesian approach / PARK Jeongwoo^{*}, LEE SeungKoog (Department of Physics, KSA)

P2-bp.039

Measurement of in vivo transcription time by precise mRNA quantification methods / KIM Seunghyeon¹, YANG Sora¹, LEE Nam Ki^{*2}

(¹Dept. of physics, POSTECH, ²Dept. of chemistry, Seoul National University)

P2-bp.040

A phantom study of the geometrical distortion for MET-PET image in LGP / SA HOE LIM^{*}, SHIN JUNG (화순전남대학교병원)

P2-bp.041

Tracking of Primo Vessels in a Lymph of Rabbit by Using Magnetic Beads for the Visualization of Meridian Connectome / LEE Hyerie¹, HA Yeeun², LIM Hodae³, CHOI Jong-Gu³, LEE Sang-Suk^{*3}

(¹Accelerator and Nuclear Fusion Physical Engineering UST KAERI campus, ²Bioscience UST KRIBB campus, ³Department of Oriental Biomedical Engineering Sangji University)

P2-bp.042^{*}

Periodic alternation of bistable perception reveals a temporal threshold for sensory information processing / CHOI Woorchul, PAIK Se-Bum^{*}

(Program of Brain and Cognitive Engineering, Department of Bio and Brain Engineering, KAIST)

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P2-co.101

고온초전도 NMR 자석 개발을 위한 고정밀 자력계 / HAN Jun Hee¹, JANG Jae Young¹, HWANG Young Jin¹, AHN Min Cheol², LEE SangGap^{*1} (¹Spin Engineering Physics Team, Korea Basic Science Institute, ²Department of Electrical Engineering, Kunsan National University)

P2-co.102

Fe-6.5wt%Si 기반의 soft magnetic composite의 epoxy 첨가량에 따른 투자율 변화 연구 / 이석희, 김덕현, 김현성, 이보화* (한국외국어대학교 물리학과 & 산화물연구센터)

P2-co.103*

Exotic magneto-transport properties of antiferromagnetic topological insulators based on $\text{Bi}_2\text{Te}_{3-x}\text{Se}_x$ / KIM Jinsu, JI Sang Hyun, LEE Sang Eon, JUNG Myung-Hwa* (Department of Physics Sogang University)

P2-co.104

Dependence of cation distribution on lattice parameter and magnetic properties in $\text{Zn}_{1-x}\text{MnxFe}_2\text{O}_4$ nanoparticles / TRAN Ngo¹, KIM Deok Hyeon¹, PHAN T. L.¹, MANH D. H.², BACH T. N.², LEE B. W.*¹ (¹Department of Physics and Oxide Research Center, Hankuk University of Foreign Studies, ²Institute of Materials Science, Vietnam Academy of Science and Technology)

P2-co.105

Empirical correlation between Dzyaloshinskii-Moriya interaction and electronegativity in Pt/Co/X trilayers / PARK Yong-Keun^{1,2}, PARK Min-Ho¹, KIM Dae-Yun¹, MIN Byoung-Chul², CHOE Sug-Bong^{*1} (¹Department of Physics, Seoul National University, ²Center for Spintronics, Korea Institute of Science & Technology)

P2-co.106*

Magnon Study in Hexagonal LuMnO_3 System / KIM Seung¹, NAM Jiyeon¹, JI Jeong-Eun¹, WANG Xueyun², CHEONG Sang-Wook², YANG In-Sang^{*1} (¹Department of Physics in Ewha womans University, ²Rutgers Center for Emergent Materials and Department of Physics and Astronomy in Rutgers University)

P2-co.107*

Microscopic study of ferrimagnetic Mn_3Ga thin films deposited on MgO / BANG Hyun-Woo¹, YOO Woosuk¹, KIM Chungman¹, LEE Sunghun¹, GU Jiyung², JUNG Myung-Hwa*¹ (¹Department of Physics, Sogang University, ²Department of Physics and Astronomy, California State University, Long Beach)

P2-co.108*

Experimental realization of surface states through dHva oscillations in Sm-substituted Bi_2Te_3 / JUN Jinhyun, KIM Soo-Whan, JUNG Myung-Hwa* (Department of Physics, Sogang University)

P2-co.109*

Drastic Dependence of Spin Torque Efficiency on Thickness of Magnetic Layer / NAM YuneSeok¹, PARK MinHo¹, KIM JooSung¹, PARK YongKeun^{1,2}, KIM DaeYun¹, MIN ByoungChul², CHOE SugBong*¹ (¹Department of Physics, Seoul National University, ²Center for Spintronics Research, Korea Institute of Science and Technology)

P2-co.110

Epitaxy magnetic tunnel junctions based on magnetism at $LaAlO_3/SrTiO_3$ heterointerface. / KIM Jinkyung¹, SONG Jonghyun*¹ (¹Department of Physics Chungnam National University, ²Korea Research Institute of Standards and Science)

P2-co.111

Different Characteristics of Spin-Orbit Torque between Domain-Wall Motion and Harmonic Measurements / KIM Joo-Sung, NAM Yune-Seok, KIM Dae-Yun, PARK Min-Ho, PARK Yong-Keun, CHOE Sug-Bong* (Department of Physics and Astronomy, Seoul National University)

P2-co.112

Universal Depinning Behaviour of Magnetic Domain Walls Driven by Spin-Orbit Torque / WHANG Hyun-Seok, CHOE Sug-Bong* (Department of Physics & Astronomy, Seoul National University)

P2-co.113*

망간 기반의 유기-무기 혼성 페로브스카이트 물질의 자성 및 구조전이에 대한 연구. / 김용환, 허남정* (인하대학교 물리학과)

P2-co.114

Anisotropic electron transport of in-plane magnetic field in $LaAlO_3/SrTiO_3$ / KWAK Yongsu¹, KIM Jinhee², SONG Jonghyun*¹ (¹Department of physics, Chungnam National University, ²Korea Research Institute of Standards and Science)

P2-co.115*

Peculiar electronic, magnetic properties of the 2-dimensional Ising ferromagnetic insulator $\text{BaFe}_2(\text{PO}_4)_2$ / 송영준¹, PICKETT W. E.³, 이관우*^{1, 2} (¹고려대학교 대학원 응용물리학과, ²고려대학교 세종캠퍼스 디스플레이반도체물리학과, ³Department of Physics, University of California, Davis)

P2-co.116*

Candidates of compensated Half-metals in inverse-Heusler compounds / 진효선¹, 이관우*^{1, 2} (¹고려대학교 대학원 응용물리학과, ²고려대학교 세종캠퍼스 디스플레이반도체물리학과)

P2-co.117

반대 카이랄성을 가진 자성층 간의 상호작용에 의한 자성구조와 동역학 / 강상표, 김남준, 권희영, 원창연* (경희대학교 물리학과)

P2-co.118

스커미온 홀 효과가 상쇄되는 고리모양 자성구조에 관한 연구 / 김남준, 강상표, 권희영, 원창연* (경희대학교 물리학과)

P2-co.119*

Pressure induced Metal-insulator Transitions in chalcogenide $\text{NiS}_{1-x}\text{Se}_x$ / HUSSAIN Tayyaba¹, NAUMAN Muhammad¹, HAN Garam², KIM Changyoung², JO YOUNGJUNG*¹ (¹Department of Physics, Kyungpook National University, ²Center for Correlated Electron Systems, Institute of Basic Sciences)

P2-co.120*

물리적 흡착에 의한 소형 역학공진기의 공진 주파수 변화 및 자성나노입자의 질량 측정 / 박미령, 최현경, 김삼진, 김철성, 고태준* (국민대학교 물리학과)

P2-co.121*

외부 자기장 하에서 니켈 박막이 증착된 마이크로캔틸레버의 동역학적 특성 분석 / 박윤희, 고태준* (국민대학교 물리학과)

P2-co.122*

Capping 층과 후열처리에 따른 Fe 박막의 자기적 특성 변화 연구 / 조윤희, 이두용, 이지성, 박성균* (부산대학교 물리학과)

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P2-co.201

Electrical and Optical Properties of the Aluminium Doped Zinc Lithium Oxide Ceramics / JUN Byeongeog^{*1}, KWON Kangkyu², PARK Yoo Lim², LEE Yunji², LEE Jong-Rim¹ (¹Department of Physics and Earth Science, Korea Science Academy of KAIST, ²Korea Science Academy of KAIST)

P2-co.202*

Dynamic behavior of VO₂ thin film during metal insulator transition studied by ultrafast infrared absorption spectroscopy / OH Hojun, NOH Doyoung^{*}, MOHAD Faiyaz, HA sungsoo, MAZHAR Iqbal, KIM Sunmin (Department of physics & photon science GIST)

P2-co.203

Li₂O-xSiO₂ (x = 1, 2) 유리의 전기, 광학 특성 연구 / 김맥¹, 백창규¹, 권오혁¹, 임영훈², 양용석^{*1} (¹부산대학교 나노융합기술학과, ²세명대학교 교양과정부)

P2-co.204

Cr 또는 Fe 도핑을 통한 LiMn₂O₄ 박막의 구조적 성질 및 이차전지 양극 특성 변화 / 박종호, 김광주^{*} (건국대학교 물리학과)

P2-co.205*

Growth and characterization of high quality Pb(Zr,Ti)O₃ thick-films on a flexible metal substrate / LEE Tae Kwon, KIM Jae Woong, JUNG Jong Hoon^{*} (Department of Physics, Inha University)

P2-co.206

고전압 커패시터 BaO-Na₂O-Nb₂O₅-SiO₂-B₂O₃ 유리 및 유리-세라믹의 유전 특성 연구 / 백창규¹, 권오혁¹, 김맥¹, 임영훈², 양용석^{*1} (¹부산대학교 나노융합기술학과, ²세명대학교 교양과정부)

P2-co.207

비정질 Na₂O-Bi₂O₃-TiO₂-SiO₂의 결정화 동역학 연구 / 권오혁, 백창규, 김맥, 양용석^{*} (부산대학교 나노융합기술학과)

P2-co.208

Molar heat capacity of potassium alum KAl(SO₄)₂·12H₂O / LEE Kwang-Sei^{*1}, KIM YongHwan², JUNG JongHoon², HUR Namjung² (¹Department of Nano Science & Engineering, Inje University, ²Department of Physics, Inha

University)

P2-co.209

Dielectric relaxation in $\text{SrBi}_2\text{Ta}_{1.8}\text{V}_{0.2}\text{O}_9$ ferroelectrics / PARK Jong-Ho* (Department of Science Education Chinju National University of Education)

P2-co.210

SSCG 방법으로 성장한 BaTiO_3 단결정에 대한 브릴루앙 산란 특성 연구 / 오수한¹, 이병완¹, 고재현*, 이호용² (¹한림대학교 응용광물리학과, ²선문대학교 신소재공학과)

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P2-co.301

Development of a multi-space constrained density functional theory approach and its application to graphene-based vertical transistors / KIM Han Seul, KIM Yong-Hoon* (Graduate School of EEWS, Korea Advanced Institute of Science and Technology)

P2-co.302

The stability of Li_3OCl crystal structures / PHAM Tan-Lien, SHIN Young-Han* (Department of Physics, University of Ulsan)

P2-co.303

First-principles investigation of stability and electronic structure of single-layer ZnPS_3 and ZnPSe_3 / 윤원석, 이재동* (대구경북과학기술원 신물질과학전공)

P2-co.304

Optical properties of triclinic structure of $\alpha\text{-BiFeO}_3$: LDA+U and mBJ calculations / NAZ Ishrat, AHMAD Fayyaz, JANG Jae Kyung, RHEE Joo Yull* (Department of Physics, Sungkyunkwan University)

P2-co.305

Density-functional study of crystal-structure stability of $\alpha\text{-BiFeO}_3$: LDA vs. GGA calculations / AHMAD Fayyaz, NAZ Ishrat, JANG Jae Kyung, RHEE Joo Yull* (Department of Physics, Sungkyunkwan University)

P2-co.306*

Stabilization of Edge states of zigzag graphene nanoribbon through Silicon-passivation / LEE Juho, SHIN Dongjae, KIM Yong-Hoon* (Graduate School of Energy, Environment, Water, and Sustainability (EEWS), Korea Advanced Institute of Science and Technology (KAIST))

P2-co.307*

First-principle calculation studies on the electronic and magnetic properties of Gd (4f) and Cr (3d) doping on half-Heusler alloy NiMnSb / HOANG Thu Thuy, DO Duc Cuong, RHIM S.H., HONG Soon Cheol* (Department of Physics and Energy Harvest Storage Research Center, University of Ulsan)

P2-co.308*

Grain growth model in ferroelectric ceramic system: Phase field simulations / TRAN Viet Dung, SHIN Young-Han* (Department of Physics, University of Ulsan)

P2-co.309*

Electronic Transition Properties in Ca-Doped BiFeO₃ with Oxygen Vacancy: A First-Principles Study / LEE Jounghee, NAHM Ho-Hyun, KIM Yong-Hyun* (Graduate School of Nanoscience and Technology, KAIST,)

P2-co.310*

Ballistic phonon transport at the atomic contact on monolayer MoS₂ and Graphene / JEONG Hochan, KO Jae-Hyeon, KIM Yong-Hyun* (Graduate School of Nanoscience and Technology)

P2-co.311*

Ultra high capacity of hydrogen storage in Li doped C₂N / 홍지상*, HASHIMI arqum (부경대학교 물리학과)

P2-co.312

Electronic and ferroelectric properties of tetragonal Pb(Zr_{0.5}Ti_{0.5})O₃-based oxysulfides / KIM Hye Jung, AHN Chang Won, KIM Tae-Heon, SHIN Young-Han* (Department of Physics, University of Ulsan)

P2-co.313

Effect of Electron Correlations on Soliton States in a Single Peierls Chain / KIM Gyu Hyeong^{*1}, LEE Sung-Hoon^{*1,2} (¹Center for Artificial Low Dimensional Electronic System, Institute for Basic Science (IBS), ²Department of Applied Physics Kyung Hee University)

P2-co.314

First-principles study of electronic and optical properties of SiC / KANG Yura^{1,2}, PARK Jinwoo¹, JEONG Seongmin², HONG Suklyun^{*1} (¹Department of Physics and Graphene Research Institute, Sejong University, ²Energy & Environmental Division, Korea Institute of Ceramic Engineering and Technology)

P2-co.315

Perturbative approach to gas uptake for inhomogeneous fluids / IHM Yungok^{*1}, COOPER Valentino R², VLCEK Lukas², CANEPA Pieremanuele³, THONHAUSER Timo³, SHIM Jihoon¹, MORRIS James R² (¹Department of Chemistry, POSTECH, ²Materials Science and Technology Division, ORNL, ³Department of Physics, Wake Forest University)

P2-co.316*

Density functional study of the hydrogen evolution reaction activity of cobalt-embedded C₂N / NOH Min Jong, KIM Yong-Hoon* (Graduate School of Energy, Environment, Water, and Sustainability, KAIST)

P2-co.317*

Mn 혹은 Fe가 도핑된 계의 자성과 에너지띠틈에 대한 제일원리계산 / 홍문봉, 홍순철* (울산대학교 물리학과, 에너지 하베스트-스토리지 연구센터)

P2-co.318*

The critical effect of metal atoms in mechanically interlocked supramolecular devices and the prevention using graphene / YEO Hyeonwoo¹, KIM Hyo Seok², KIM Yong-Hoon^{*2} (¹Department of Chemical and Biomolecular Engineering, Korea Advanced Institute of Science and Technology (KAIST), ²Graduate School of EEWS, Korea Advanced Institute of Science and Technology (KAIST))

P2-co.319*

Development of magnetism in armchair graphene nanoribbons with edge functionalizations: A first-principles study / SHIN Dongjae, LEE Juho, KIM Yong-Hoon* (Graduate School of Energy, Environment, Water, and Sustainability (EEWS), Korea Advanced Institute of Science and Technology (KAIST))

P2-co.320*

Electrical and transport properties of carbon chains encapsulated within CNT / TAE HYUNG Kim, HU SUNG Kim, YONG-HOON Kim* (Graduate School of EEWS, Korea Advanced Institute of Science and Technology)

P2-co.321*

C도핑된 t-MnAl의 자성과 자기이방성에 관한 제일원리계산 / 박진식, 임성현, 홍순철* (울산대학교 물리학과, 에너지 하베스트-스토리지 연구센터)

P2-co.322*

Atomic self-interaction correction calculations of transition metal dichalcogenides multilayers and heterostructures / KIM Hyo Seok, SHIM Yoon Su, KIM Yong-Hoon* (Graduate School of Energy, Environment, Water and Sustainability, Korea Advanced Institute of Science and Technology)

Hanging posters: 2017. 04. 20 Thursday 13:00 – 04. 21 Friday 12:00

Presentation: 2017. 04. 20 Thursday 18:00 - 19:30

Place: Exhibition Hall

P2-co.401*

Spatial coherence measurement on femtosecond hard X-ray Free Electron Laser pulses at SACLA in single-shot / CHO Dohyung¹, YANG Jiseok¹, NAM Daewoong¹, KIM Sangsoo², SONG Changyong^{*1} (¹Dept. of Physics, POSTECH, ²Pohang Accelerator Laboratory)

P2-co.402*

optical ptychographic imaging by pulsed laser source / SUNG Daeho, NAM Daewoong, LEE Heemin, JUNG Chulho, CHO Dohyung, SONG Changyong* (Department of Physics, POSTECH)

P2-co.403

Comparison of Two Parallel Kinematic Piezoelectric Scanners for Atomic Force Microscopy / ALUNDA Bernard Ouma, LEE Yong Joong* (School of Mechanical Engineering, Kyungpook National University)

P2-co.404

Micro-focusing of hard X-ray free electron lasers by Kirkpatrick-Baez mirrors / KIM Jangwoo*, NAM Ki-Hyun, PARK Jaehyun, KIM Sangsoo, KIM Hyo-Yun, RAH Seungyu, KOO Tae-Yeong (Pohang Accelerator Laboratory, POSTECH)

Hanging posters: 2017. 04. 20 Thursday 13:00 – 04. 21 Friday 12:00

Presentation: 2017. 04. 20 Thursday 18:00 - 19:30

Place: Exhibition Hall

P2-op.001*

Investigation of THz magnitude patterns measured in near-field and far-field zones using knife-edge scanning / 한정우¹, 최영관¹, 이종석^{*1} (¹광주과학기술원 물리 광 과학과, ²광주과학기술원 물리 광 과학과, ³광주과학기술원 물리 광 과학과)

P2-op.002*

효율적인 THz 펄스 검출을 위한 다양한 광전도 안테나 구조 연구 Study on photoconductive antenna structures for efficient THz pulse detection / 김원태¹, 강봉주¹, Truong Khang Nguyen², 박현상³, 김강호², 이재진², 박익모², 전태인³, 이상민^{*1} (¹한국과학기술원 물리학과, ²아주대학교 전자공학과, ³한국해양대학교 전기전자과)

P2-op.003

Strong nonlinearity of THz transmission in slot antenna structure with sub-nanometer gap / KIM Sunghwan, CHOI GeunChang, YUN HyeongSeok, KIM Dasom, PARK Woongkyu, KIM Dai-Sik* (Department of Physics and Astronomy and Center for Atom Scale Electromagnetism, Seoul National University)

P2-op.004

포획광선에 대한 위상변조를 이용한 광포획 효율 향상: SLM을 이용한 RIMSA효과 제어 / 최재민*, 박영도 (전북대학교 물리교육과)

P2-op.005*

Characteristics of the local resonance in organic/metamaterial/Si hybrid structures under photoexcitation / SONG Myeong-Seong¹, HWANG In-Wook², LEE Chang-Lyoulv, KANG Chul², KEE Chul-Sik², PARK Sae June³, AHN Yeong Hwan³, PARK Doo Jae⁴, LEE Joong Wook^{*1} (¹Department of Physics and Optoelectronics Convergence Research Center, Chonnam National University, ²Advanced Photonics Research Institute, GIST, ³Department of Physics and Department of Energy Systems Research, Ajou University, ⁴Department of Physics, Hallym University)

P2-op.006

초고속 전자회절 장치의 시각 흐트러짐 측정 / 김현우^{1, 2}, 김미혜², 백인형^{1, 2}, 박선정², 남진희^{1, 2}, 김영찬², 장규하^{1, 2}, Nikolay Vinokurov^{1, 2, 3}, 정영욱^{*1, 2} (¹과학기술연합대학원 가속기 및 핵융합 물리공학, ²한국원자력연구원 양자빔기반 방사선 연구센터, ³부드커 핵물리 연구소)

P2-op.007

레이저-플라즈마 가속 전자빔 진단을 위한 **Hankel-Fourier** 방법을 이용한 플라즈마의 전자 밀도 분석 / 류우제^{1, 2}, 김하나¹, 이신영¹, 김정태¹, 이기환¹, 박성희¹, 정영욱¹, 조재흥², 이기태^{*1} (¹한국원자력연구원, 양자빔기반방사선연구센터, ²한남대학교, 물리학과)

P2-op.008*

Isotropic properties of H-shaped slot structures at terahertz frequency / 이인성, 이종욱* (전남대학교 물리학과)

P2-op.009

Coulomb blockade effect in ReS₂ field effect transistors / PARK Jinwan¹, LEE Sihong¹, LEE Myoung-Jae², JUNG Minkyung^{*2}, SEO Jungpil^{*1, 2} (¹Department of Emerging materials science, DGIST, ²Department of DGIST Research Institute, DGIST)

P2-op.010

실리케이트 소스가 Li₂SrSiO₄에 첨가된 Eu(2+,3+)의 발광특성에 미치는 효과 / 김태영, 우현주, 장기완* (창원대학교 물리학과)

P2-op.011*

Optical Properties of DNA-CTMA Doped High Concentration of Rare-Earth Ions with DMSO / CHEON Seunguk^{*1}, PAULSON Bjorn² (¹Institute of Physics and Applied Physics, Yonsei University, ²Institute of Physics and Applied Physics, Yonsei University)

P2-op.012*

Germanium aperture as an optical magnetic polarization analyzer in the ultraviolet regime / LEE Dukhyung, JEONG Jeeyoon, KIM Dai-Sik* (Department of Physics and Astronomy and Center for Atom Scale Electromagnetism, Seoul National University)

P2-op.013

Eigenmode phase measurement of an acoustic shell cavity / KIM Jinuk, SHIN Younghoon, AN Kyungwon* (Department of Physics, Seoul National University)

P2-op.014

Glucose의 광활성 측정과 분석 / 강동욱, 김이새, 김석원* (Department of Physics, University of Ulsan)

P2-op.015

Ultrahigh enhancement of light focusing through optical disordered media / YU Hyeonseung, LEE KyeoReh, PARK YongKeun*

P2-op.016

Edge-lit BLU의 조도 균일도 향상을 위한 도광판 내부 패턴 분석 / 박소희* (조선대학교 물리학과)

P2-op.017*

An effective method for the fabrication of broadband wire grid polarizers using nanoimprint and selective deposition / KIM Wonyoung, KIM Tae Young, KIM Minsuk, HWANG Sungmin, LEE Minbaek, HWANGBO Chang Kwon* (Department of Physics, Inha University)

P2-op.018*

Strong coupling for Epsilon-Near-Zero material and Surface plasmon polariton of metals / 김서영, 김태영, 황보창권* (인하대학교 물리학과)

P2-op.019*

Broadband Coherent Perfect Absorption Device Based on Symmetric Epsilon-Near-Zero Indium Tin Oxide Thin Films in the Near Infrared / KIM Tae Young¹, KIM Seoyoung¹, JUN Young Chul², HWANGBO Chang Kwon*¹ (¹Department of Physics, Inha University, ²Department of Materials Science and Engineering, Ulsan National Institute of Science and Technology)

P2-op.020*

이터븀 편광 유지 광섬유 레이저의 발진 특성 / 김성기*, 김진아, 류지욱, 김용기 (공주대학교 물리학과)

P2-op.021

Wavefront correction of petawatt Laser beam with large aperture size deformable mirror / ROH Kyungmin*², JEON Cheonha¹, SHIN Junghun¹, YOON Jin-Woo¹, PAK Taegyu², LEE Sunggeun², TER-AVETISYAN Sargis^{1, 2}, YUN Hyun-Ho², ALEXANDROV Alexander³, SAMARKIN Vadim³, LYLOVA Anna³, KYDRYASHOV Alexis³ (¹Center for Relativistic Laser Science, Institute of Basic Science (IBS), ²Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST), ³Active Optics NightN Ltd.)

P2-op.022

고출력 지그재그 슬랩 Nd:YAG 레이저의 설계 최적화 / 신재성*, 차용호¹, 김용희¹, 임권¹, 차병현¹, 이현철², 김상인², 김현태² (¹한국원자력연구원, ²한화디펜스)

P2-op.023*

Optical properties of few-layer molybdenum ditelluride (2H-MoTe₂ and 1T'-MoTe₂) / JUNG Eilho¹, PARK Jinchul², LEE Younghee², HWANG

Jungseek*¹ (¹Department physics, Sungkyunkwan University, ²IBS Center for Integrated Nanostructure Physics, Sungkyunkwan University)

P2-op.024

All-order dispersion cancellation and energy-time entangled state / RYU Jinsoo^{1, 2}, CHO Kiyong¹, OH Cha-Hwan², KANG Hoonsoo*¹ (¹Advanced Photonics Research Institute, Gwangju Institute of Science and Technology, ²Department of Physics Hanyang University)

P2-op.025

2-Dimensional Hilbert transformation 을 이용한 금속 micro-droplet 의 3차원 측정 연구 / 나실인, 유영훈* (제주대학교 물리학과)

P2-op.026*

특수 광섬유 기반 위상 천이 홀로그래피 구현 / 이승석, 김주하, 마혜준, 최은서* (조선대학교 물리학과)

P2-op.027*

빛의 광각입사에 대응하기 위한 1- μ m CMOS 이미지 센서 / ANH La Tai¹, 이동현¹, 임진하¹, 도영웅¹, 이경인², 이차영², 한해욱*¹ (¹포항공과대학교 전자전기공학과, ²(주)에스케이 하이닉스)

P2-op.028*

광 경로 증가에 따른 저출력(He-Ne 레이저) 광원의 편광도 측정 / 김진아*, 김성기, 김용기, 류지욱 (공주대학교 물리학과)

P2-op.029

Characterization of Photoisomerization in Disperse Orange 3 doped PMMA Thin Film / WU Yang¹, SHIM Hyun Kwan², SEO Hyo Jin¹, KIM Sun Il*¹ (¹Department of Physics Pukyong National University, ²Department of Chemistry Pukyong National University)

P2-op.030

하이브리드 형태의 교번자장기를 이용한 THz 자유전자레이저 개발 / 배상윤^{1, 2}, 문정호¹, 김현우¹, 박선정^{1, 3}, 박성희¹, 이기태¹, 장규하¹, 전민용², 정영욱*¹, VINOKUROV Nikolay⁴ (¹한국원자력연구원, ²충남대학교, ³경북대학교, ⁴Budker Institute of Nuclear Physics)

P2-op.031

Supercontinuum generation using two-color laser pulses propagating through a gas-filled hollow-core fiber / LEE Chanhyeong*¹, PARK Seung Beom², KIM Kyungseung², HWANG Sung In², KIM Kyung Teac*^{1, 2} (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST), ²Center for Relativistic Laser Science, Institute for Basic Science (IBS))

P2-op.032*

Two photon gate operation in circuit QED with triple-leg stripline resonator / KIM Dongmin, MOON Kyungsun* (Department of Physics, Yonsei University)

P2-op.033

A Simulation Study of Female Schematic Eyes for the Presbyopia Based on the Clinical Data / 김미진, 김달영* (서울과학기술대학교 안경광학과)

Hanging posters: 2017. 04. 20 Thursday 13:00 – 04. 21 Friday 12:00

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P2-pa.001**우리나라 물리학자의 입자물리학분야 오픈엑세스 학술지 투고현황 분석 /**
서태설*, 황혜경, 김완중 (한국과학기술정보연구원 과학기술정보센터)**P2-pa.002****Relativistic approximation of Hamiltonian for anti-hydrogen atom /** CHOI Taeseung^{*1,2}, HAN Yeong Deok³, LEE Young Won⁴ (¹Division of Applied Food Systems, Seoul Women's University, ²School of Computational Sciences, KIAS, ³Department of Computer Science and Engineering, ⁴Basic Science Institute, Seoul Women's University)**P2-pa.003*****DC transport coefficients of strongly interacting ferromagnetic material from holography /** 송근호¹, 서윤석¹, 박찬용², 신상진^{*1} (¹한양대학교 물리학과, ²아태이론물리센터)**P2-pa.004****Nambu bracket theory /** 송원익* (경희대학교 물리학과)**P2-pa.005****Measurements of the branching fractions of $B^+ \rightarrow pp\bar{b}K^+$, and $B^0 \rightarrow pp\bar{b}K^0$, decays at Belle /** LEE Jaekeum^{*1}, OLSEN Stephen Lars², KIM Sunkee¹, CHOI Sookyung³ (¹Department of Physics and Astronomy, Seoul National University, ²Center for Underground Physics, Institute for Basic Science, ³Department of Physics, Gyeongsang National University)**P2-pa.006****Neutrino oscillation sensitivity studies at Korean Neutrino Observatory /** 김상용^{*1}, 김종현^{*2}, 전상훈^{*2}, 박명렬⁵, 최준호⁵, 장한일⁶, 권은향¹, 김수봉¹, 서선희¹, 서현관¹, 유인태², Carsten Rott², 김재률⁹, 문동호⁹, 임인택⁹, 주경광⁹, 김우영³, 장지승⁴, 손동철³, 김동희³, 오영도³, 강신규⁷, 박성찬⁸, 신서동⁸ (¹서울대학교, ²성균관대학교, ³경북대학교, ⁴광주과학기술원, ⁵동신대학교, ⁶서명대학교, ⁷서울과학기술대학교, ⁸연세대학교, ⁹전남대학교)**P2-pa.007*****Study of Drell-Yan differential cross section with 2016 data /** PAI Dalmin* (Department of Physics & Astronomy, Seoul National University)

P2-pa,008*

Search for high mass resonances decaying into four lepton final states at 13 TeV with the CMS detector / LEE Joonbin* (Department of Physics, Seoul National University)

P2-pa,009*

Search for High-Mass Resonances Decaying to Muon Pairs in pp Collisions at $\sqrt{s} = 13$ TeV / OH Minseok* (Department of Physics, Seoul National University)

P2-pa,010

Measurement of the top pair production cross-section in 13 TeV proton-proton collisions in the lepton+jets final state with CMS / GYUN Dooyeon, CHOI Suyong* (Korea University)

P2-pa,011

RF Parameter Measurement of 9, 6 MeV Linear Accelerator Structure with the Bead-pulling Method / JOO Youngwoo^{*1, 2}, KIM Yujong¹, SONG Kibaek³, BUAPHAD Pikad^{1, 2, 3}, CHA Sungsu¹, LEE Hyerie^{1, 2} (¹Korea Atomic Energy Research Institute, ²Accelerator and Nuclear Fusion Physical Engineering, University of Science and Technology, ³Radiation Technology eXcellence)

P2-pa,012

Muon isolation optimization simulation for Phase 2 upgrade / JEONG YongHo^{*1}, CHOI YongIl¹, LEE Jason², KO ByeongHak² (¹Department of Physics Sungkyunkwan University, ²Department of Physics University of Seoul)

P2-pa,013

Belle II DAQ Works / 권영준*, 육영민*, 김한진*, 김경호*, 박석희* (연세대학교 물리학과)

P2-pa,014

Design of a micro-focusing cup for the mammography X-ray tube / LEE Hyerie^{*1, 2}, KIM Yujong², LEE Sangsuk³, PARK Raejun⁴, CHA Sungsu², JOO Youngwoo^{1, 2}, BUAPHAD Pikad^{1, 2} (¹Department of Accelerator and nuclear fusion physical engineering, UST, ²Korea Atomic Energy Research Institute, ³Department of Oriental Biomedical Engineering, Sangji University, ⁴XL Co. Ltd.)

P2-pa,015*

Studies of GEM Detector as a Part of the Polarimeter for the Storage Ring Proton EDM Experiment / JEONG Hoyong^{*1, 2}, PARK Seongtae², WON Eunil¹, SEMERTZIDIS Yannis K.² (¹Department of Physics, Korea University, ²Center for Axion and Precision Physics Research, Institute for Basic Science)

P2-pa.016

경북대 CMS Tier2 센터의 운영 및 이용 현황 / 한대희*, 송지환, 이세욱, 김귀년, 손동철 (경북대학교 고에너지물리연구소)

P2-pa.017

CP violating anomalous top quark coupling in pp collisions at $\sqrt{s}=13$ TeV / HA Seungkyu^{*1}, CHOI Suyong¹, LEE Sehwook² (¹Department of Physics, Korea University, ²Department of Physics, Kyungpook National University)

P2-pa.018*

Studies of initial state gluon radiations in Drell-Yan events from Hadron Collider / 최준호^{*1,2}, 서현산^{*1}, 김준호^{*1}, 유금봉^{*1}, 양운기^{*1} (¹서울대학교 물리천문학부, ²서울대학교 기초과학연구원)

P2-pa.019

4세대 200 MW 모듈레이터용 3상 480Vac 전원 분석 / 박성수, 이흥수* (포항가속기연구소)

P2-pa.020

Search for excited leptons in final state with the two same-flavor leptons and one photon at $\sqrt{s}=13$ TeV / CHOI Jaeyun², KIM Minsuk², LEE Sehwook², NAM Kyungwook³, YOO Hwidong^{*3}, HA Seungkyu¹ (¹Department of Physics, KOREA University, ²Department of Physics, Kyungpook National University, ³Department of Physics, Seoul National University)

P2-pa.021*

Jet discrimination with deep learning / PARK JongSuk, YANG SeungJin, LEE YunJae, PARK Inkyu*, LEE Jason Sang Hun* (Department of Physics, University of Seoul)

P2-pa.022

Study of $B^0 \rightarrow K_s K_s K_s$ in the Belle experiment / KANG Kookhyun¹, HIGUCHI Takeo², JEON Hyebin¹, KIM Hongjoo¹, LEE Seungcheol¹, PARK Hwanbae^{*1} (¹Department of Physics, Kyungpook National University, ²Kavli Institute for the Physics and mathematics of the Universe (WPI), University of Tokyo)

P2-pa.023*

Muon Isolation for CMS Phase II Upgrade / KO Byeonghak¹, JEONG Yongho², LEE Jason Sang Hun^{*1}, PARK Inkyu^{*1} (¹Department of Physics, University of Seoul, ²Department of Physics, Sungkyunkwan University)

P2-pa.024*

GEM efficiency test for using cosmic ray stand / SONG Donghyun,

LEE Jason Sang hun*, PARK Inkyu* (Department of Physics, University of Seoul)

P2-pa.025*

The ME0 Muon System Upgrade at the CMS Experiment / HEO Gun-woo, LEE Jason* (Department of Physics, University of Seoul)

P2-pa.026

A Charged particle discrimination method in searching for WIMPs dark matter / KO Jewou*, WOO Jong-Kwan*, LIU Dong (Department of Physics, Jeju University)

P2-pa.027*

Analysis performance test of Muon Detector for AMoRE Neutrinoless Double Beta Experiment / PRIHTIADI Hafizh* (Department of Physics, Bandung Institute of Technology)

P2-pa.028*

Studies of a frequency tuning system in CAPP's axion search experiment / KIM Jinsu^{*1, 2}, KWON Ohjoon², LEE Soohyung², LEE Doyu², CHUNG Woohyun², SEMERTZIDIS Yannis K.² (¹Department of Physics, Korea Advanced Institute of Science and Technology (KAIST), ²Center for Axion and Precision Physics Research (CAPP) at Institute of Basic Science (IBS))

P2-pa.029*

The heat and light measurement of a 1 cm³ Na₂Mo₂O₇ scintillating crystal in a low temperature test setup / 김혜림^{1, 2}, 김용함^{*1}, 김홍주^{*2} (¹기초과학연구원 지하실험연구단, ²경북대학교 물리학과)

P2-pa.030

Trigger Logic Study using Continuous Data / SEO Kyung min¹, YOON Young soo^{*2}, KIM Yeong duk^{1, 2}, KIM Hyunsoo¹ (¹Department of Physics, Sejong University, ²Center for Underground Physics, Institute for Basic Science)

P2-pa.031*

Measurement of the Cesium D2 transition line using saturated absorption spectroscopy / KIM Dongok^{*1, 2}, KIM Younggeun^{1, 2}, PHUONG Hoang Le^{1, 2}, SHIN Yunchang¹, SEMERTZIDIS Yannis K.^{1, 2} (¹Center for Axion and Precision Physics Research, Institute for Basic Science, ²Department of Physics, Korea Advanced Institute of Science and Technology)

P2-pa.032*

Purification of RENO-50 liquid scintillator / YANG Jeongyeol^{*1}, LEE Yongchang^{*1}, LEE Hyungi^{*1}, KIM Sangyong¹, SHIN Changdong², LEE Dongha¹, KWON EunHyang¹, SEO Hyunkwan¹, SEO Seon-Hee¹, JOO

Kyungkwang², KIM Soo-Bong¹ (¹Seoul National University, ²Chonnam National University)

P2-pa.033

Background measurement and Monte Carlo simulation for the HPGe array detector system. / KIM Gowoon¹, HAHN Insik Kevin^{*1}, KIM Yeongduk^{*2}, LEONARD Douglas², SALA Elena², LEE MooHyun², PARK Suyeun¹, KANG Woongu² (¹Ewha Womans University, ²Institute for Basic Science(IBS))

P2-pa.034

Measurement of the attenuation length of Liquid scintillator for the neutrino experiment / 박영서, 김승찬, 주경광* (전남대학교 물리학과)

P2-pa.035*

Measurements of samples using two 100% HPGe detectors at the YangYang underground laboratory / HAHN Insik Kevin^{*2}, KIM Yeongduk^{*1}, PARK Su-yeon¹, SALA Elena¹, KIM Gowoon¹, LEONARD Douglas¹, LEE MooHyun¹, KANG Woongu¹, LEE Eungkyung¹ (²Institute for Basic Science (IBS), ²Ewha Womans University)

P2-pa.036*

항만용 X-선 검출기를 위한 실리콘 광센서 성능 연구 / 이승철, 박환배*, 강국현, 전해빈 (경북대학교 물리학과)

P2-pa.037

Geant4 Simulation of Silicon Detectors Coupled with a CsI(Tl) Scintillator for 3-D Image / JEON Hyebin, KANG Kookhyun, KIM BoBae, LEE Seungcheol, PARK Hwanbae* (Kyungpook National University)

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P2-pl.001*

ICP (Inductively-Coupled Plasma) electron density measurements by ICP impedance and THz TDS method / JANG Donggyu, JANG Dogeun, SUK Hyyong* (Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

P2-pl.002*

Titanium Dioxide Thin Films Formation Via a Novel Atmospheric Pressure Plasma-Enhanced Chemical Vapor Deposition Method / MAUCHAUFFÉ Rodolphe¹, KANG Seongchan¹, MOON Se Youn*¹ (¹Department of Applied Plasma Engineering, Chonbuk National University, ²Department of Quantum System Engineering, Chonbuk National University)

P2-pl.003*

Selective functionalization of mesh membrane for oil-water separation via rapid formation of hydrophobic-, oleophilic- and oleophobic treatment by atmospheric pressure plasma / YOU Yong Sung¹, KANG Seongchan², HAN Duksun², MAUCHAUFFÉ Rodolphe², MOON Se Youn*^{1,2} (¹Department of Quantum system Engineering, Chonbuk National University, ²Deptment of Applied Plasma Engineering, Chonbuk National University)

P2-pl.004

DBD 플라즈마 반응기에서 화합물의 분해 생성물 예측 시뮬레이션 / 서지윤, 박명규, 정희수* (국방과학연구소)

P2-pl.005

대기압 플라즈마 유연전극 온도제어와 화학작용제 제독 연구 / 가동하, 정희수* (국방과학연구소)

P2-pl.006*

Influence of post-annealing on the physical and chemical properties of super-hydrophobic thin films deposited by an atmospheric pressure plasma method / KANG Seongchan¹, MAUCHAUFFÉ Rodolphe¹, CHO Deog Gyun¹, YOU Yong Sung², MOON Se Youn*^{1,2} (¹Department of Applied Plasma Engineering, Chonbuk National University, ²Department of Quantum System Engineering, Chonbuk National University)

P2-pl.007*

VUV 램프 개발을 위한 할로우 캐소드 방전의 특성 연구 / 조덕균¹, 한덕선¹, 문세연*^{1, 2} (¹Department of Applied Plasma Engineering, Chonbuk National University, ²Department of Quantum System Engineering, Chonbuk National University)

P2-pl.008*

Asymmetric frequency dependence of plasma jet formation in microwave resonator electrode / NAM Woojin^{1, 2}, LEE Seungtaek^{1, 2}, JEONG Seokyong¹, LEE Jae Koo³, YUN Gunsu*^{1, 2, 3} (¹Department of Physics, Pohang University of Science and Technology, ²Center for Attosecond Science, Max Planck-POSTECH/Korea, ³Division of Advanced Nuclear Engineering, Pohang University of Science and Technology)

P2-pl.009

Combinatorial Approach to Estimation of LJ parameters of Simple Spherical Fluorocarbons, CH_xF_y / BAE Hyeonhu^{1, 2}, LEE Hoonkyung², SONG Mi Young¹, CHOI Heechol*¹ (¹Plasma Technology Research Center, National Fusion Research Institute, ²Department of Physics, Konkuk University)

P2-pl.010

PIC코드에서의 해상도 변경방법 / 조명훈* (Center for Relativistic Laser Science, Institute for Basic Science (IBS))

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Global Model for Plasma Chemistry of Surface Microdischarge in Humid Air with Consideration of Heat Transfer and Gas Flow / YI Changho, YOON Sung Young, PARK Seungil, RYU Seungmin, YOO Suk Jae, KIM Seong Bong* (Plasma Technology Research Center, National Fusion Research Institute)

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레이저-플라즈마 시스템에서 플라즈마의 반사율은 높게, 두께는 얇게 유지하기 위한 조건 유도 / 강태연, 김영국, 허민섭* (UNIST 물리학과)

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Evolution of laser-induced plasma channel length inside glass in comparison with the moving breakdown model / NGUYEN Vinh Huu, 석용희* (Department of Physics and Photon Science GIST)

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Study on the role of O-mode magnetic field in Raman amplification and the increase of amplification efficiency / 라옥주, 강태연, 허민섭* (울산과학기술원 물리학과)

P2-pl.015

Coherent Terahertz Radiation Generated by Plasma Dipole Oscillation / KWON Kyu Been, HUR Min Sup* (Ulsan National Institute of Science and Technology)

P2-pl.016

거대 과학장치 PAL-XFEL의 지반 및 건물 바닥 변화 측정 장치 / 최효진*, 이상봉, 서광원, 이흥기, 길계환, 김승환, 강흥식 (포항가속기연구소)

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PRELIMINARY STUDY FOR DC CURRENT MEASUREMENT / PARK Kihyeon*, JEONG Seonghun, JUNG Younggyu, KIM Dongeon, SUH Hyungsuck, LEE Honggi, LEE Sangbong, OH Bonggi (포항가속기연구소)

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PERFORMANCE OF THE PAL-XFEL MAGNET POWER SUPPLIES / JEONG Seonghun*, PARK Ki-hyun, SUH Hyungsuck (PAL/POSTECH)

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Pierce Type C-band Klystron Optics Optimization Using Simulation Code / JANG Seungsoo*, HWANG Jihyun¹, SEONG Taesik¹, PARK Sung-Ju², NAMKUNG Won², CHO Moohyun³ (¹Department of Physics POSTECH, ²Pohang Accelerator Laboratory, ³Department of Physics and Division of Advanced Nuclear Engineering POSTECH)

P2-pl.020

중이온가속기 빔손실 측정장치 설계 / 정연세*, 김기동*, 우형주*, 김찬미*² (¹기초과학연구원, ²고려대학교)

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Study of a plasma heating by an intense circularly polarized wave on near-critical density plasma / KIM Young-Kuk, KANG Teyoun, HUR Min Sup* (Department of Physics, Ulsan Natl. Inst. Sci. & Tech.)

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Investigation of the Electron Acceleration by a High-Power Laser and a Density-Tapered Mixed-Gas Cell / KIM Jinju¹, PHUNG Vanessa L.J.¹, KIM Min Seok¹, HUR Min Sup², SUK Hyyong*¹ (¹Gwangju Institute of Science and Technology, ²Ulsan National Institute of Science and Technology)

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Angular Distributions of Bremsstrahlung Photons Emission from ECR Plasma / KUMWENDA Mwingereza John, AHN Jung Keun*, JONGWON Lee*, LUGENDO Innocent Jimmy* (Department of Physics, Korea University)

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The Development of RF amplifier for RFQ of KBSI / LEE ByoungSeob*, BAHNG Jungbae, HONG Jonggi, OK JungWoo, KIM SeongJun, PARK JinYong, WON MiSook (Korea Basic Science Institute)

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Design, Implementation and Preliminary Test of a Wien Filter in an Electron Beam Ion Source Test Bench / LEE Seunghyun*, KIM Han-Sung, KWON Hyeok-Jung, CHO Yong-Sub (Korea Multi-purpose Accelerator Complex, Korea Atomic Energy Research Institute)

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Interaction of ultra-intense ultra-short laser pulse with ultra-thin targets / SHARIF Saqib^{*1,2}, SINGH Prashant², AHMAD Hamad³, KAKOLEE Kaniz Fatima², JEONG Taewon^{1,2}, TER AVETISYAN Sargis^{1,2} (¹Gwangju Institute of Science and Technology (GIST), ²Center for Relativistic Laser Science (CoReLS), IBS, ³Queens University Belfast)

P2-pl.028

소재의 열팽창 효과를 고려한 전자총 설계에 관한 연구 / 서형석^{*}, 현성윤¹, 박성주², 황지현³, 장승수³, 유동호¹ ((주) 비츠로테크, ²포항가속기연구소, ³포항공과대학교)

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Present status of the RAON machine protection system / JIN Hyunchang*, LEE Sangil, JANG Hyojae, JANG Hyunman (Institute for Basic Science)

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3차원 시간 의존성 자유전자레이저에서 분광 특성 / 남순권*, 김태훈, 최준호, 박윤성 (강원대학교 물리학과)

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X-선 미세회절 해석 소프트웨어의 개발 계획 / 길계환*, 최효진, 임재홍 (포항가속기연구소)

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Simulation Studies for THz Coherent Transition Radiation by Self-Modulated Laser Wakefield Accelerated Electron Beams / LEE Seungwoo, JIN Munsu, SUK Hyyong* (Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST))

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CONCEPTUAL DESIGN STUDY ON LI-8 RADIOACTIVE ISOTOPE BEAM APPARATUS at KOMAC / DANG Jeong-Jeung*, KWON Hyeok-Jung, LEE Seung-Hyun, KIM Han-Sung, SONG Young-Gi, KIM Dae-II, CHO Yong-Sub (Atomic Energy Research Institute)

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Design of an Electron gun for LHCD 5-GHz klystron / HWANG Jihyun*¹, PARK Sung-Ju², NAMKUNG Won², CHO Moohyun³ (¹Department of Physics, POSTECH, ²Pohang Accelerator Laboratory, ³Division of Advanced Nuclear Engineering, POSTECH)

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stripline & coaxial fast faraday cup 설계 및 제작 / 김찬미^{1,2}, 우형주^{*2}, 김기동², 정연세², 권장원^{1,2}, 김은산¹ (¹고려대학교 가속기과학과, ²기초과학연구원 중이온가속기사업단)

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펄스 중성자 발생 효율 증가를 위한 초전도 가속관 기초 설계 연구 / 김한성*, 권혁중, 당정증, 이승현, 윤상필, 정해성, 송영기, 조용섭 (한국원자력연구원 양성자가속기연구센터)

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Development of a X-ray Spectrometer for the DIRAMS C-band linac with a BGO crystal scintillator / YI Jungyu^{1,2}, LEE Manwoo*¹, JEONG Dong Hyeok¹, LEE Dong Eun¹, LIM Heuijin¹, LEE Mujin¹, SHIN Sangwoong¹ (¹Research Center, Dongnam Institute of Radiological and Medical Sciences, ²Department of Physics, Pusan National University)

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중성자 발생장치 타겟의 티타늄 코팅 (Titanium coating for neutron generator target) / 이석관*, 허성렬, 장대식, 진정태, 이광원, 인상열, 박재원, 오병훈 (한국원자력연구원)

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Generation of sub-micron particles and characterization using Mie scattering / KIM Hohyun^{*1, 2}, SHARIFF Saqib^{*1, 2}, NOH Kyungmin^{1, 2}, KUMAR-SINGH Prashant², TER-AVETISYAN Sargis^{1, 2} (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Center for Relativistic Laser Science, Institute for Basic Science)

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P2-te.003

계절과 물질의 변화에 대한 교사들의 오개념 / 박종호* (진주교육대학교 과학교육과)

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눈의 구조와 기능에 대한 광학적 이해 / 현동걸* (제주대학교 교육대학)

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융합인재교육의 현장적용 프로그램을 통한 예비교사의 융합인재교육 인식 변화 / 이지원, 모진우, 김중복* (한국교원대학교)

P2-te.006

FCI와 MBT를 활용한 과학영재들의 역학 기초개념 조사의 결과 비교 / 이인숙* (한국과학기술원 부설 한국과학영재학교 물리지구과학부)

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Comparative analysis of physics curriculum in secondary school of Mongolia and South Korea / GANKHUYAG Enkhtsetseg, IM Sungmin* (Department of Science Education, Daegu University)

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※ 초록제출시 입력 오류로 인해 성/이름의 순서가 바뀔 경우가 있을 수 있는 점 양해해주시요



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KIM Dai-Sik	P2-op.003	KIM G.W.	P1-nu.002
KIM Dai-Sik	P2-op.012	KIM Ga Reoung	P1-co.216
KIM Daniel	P1-st.001	KIM Ga Reoung	P2-ap.112
KIM Dasom	P2-op.003	KIM Gangmook	F4.01
KIM Deok Hyeon	P2-co.104	KIM Geon-Bo	P1-nu.009
KIM Dohun	E12.02,	KIM Gon-Ho	H5.06
	E9.03	KIM Gowoon	H14.04, P2-
KIM Dong-Kyun	P2-bp.012		pa.033

KIM Gowoon	P1-co.214	KIM Hong joo	B1.05
KIM Gowoon	P2-pa.035	KIM HongJoo	B1.03
KIM Guinyun	B1.06, P1-nu.005	KIM Hongjoo	B1.04
KIM Guinyun	P1-nu.004	KIM Hongjoo	H12.02
KIM Gun-Ho	E3.04	KIM HongJoo	H14.09, P1-nu.018
KIM GWANG-HEE	E8.04	KIM Hongjoo	P1-nu.011
KIM Gwang-Ho	E5.04, P1-pl.040	KIM Hongjoo	P1-nu.019, P1-nu.021, P2-ap.104, P2-pa.022
KIM Gyu Hyeong	P2-co.313		
KIM GyuHan	P1-ap.124		
KIM H. J.	G3.03	KIM Huidong	A12.01
KIM H. S.	P1-pl.005	KIM Hwansun	G12.01
KIM H.J.	G14.05	KIM Hye Jung	P2-co.312
KIM H.S.	G5.01	KIM Hyelim	P1-nu.009
KIM H.S.	P1-pl.004	KIM Hyeohn	F4.01
KIM Ha-jin	P1-pl.010	KIM Hyo-Yun	P2-co.404
KIM Haesoo	P2-bp.009	KIM Hyo Jung	H3.03
KIM Hajin	F11.08	KIM Hyo Jung	P2-ap.131
KIM Hajin	P2-bp.004	KIM Hyo Seok	E9.04
KIM Hajin	P2-bp.005	KIM Hyo Seok	P2-co.318
KIM Hajin	P2-bp.006	KIM Hyo Seok	P2-co.322
KIM Hajin	P2-bp.007	KIM Hyongsun	A2.07
KIM Hak-Kun	P1-pl.040	KIM Hyun-Chul	D1.05
KIM Hakseong	P1-ap.109	KIM Hyun-Jung	H7.05
KIM Han-gyu	G7.08	KIM Hyun-Seok	P1-pl.013
KIM Han-Sung	P2-pl.026	KIM Hyun-Seok	P1-pl.015
KIM Han-Sung	P2-pl.034	KIM Hyun-Soo	E5.04, P1-pl.040
KIM Han Seul	P2-co.301		
KIM Hanchul	C8.07	KIM Hyun-Soo	P1-st.009
KIM Hanchul	F8.02	KIM Hyun-Tak	F6.04
KIM Hang Bae	G12.04	KIM Hyun-Tak	P1-co.208
KIM Hee-seob	E6.03	KIM Hyun	C4.01
KIM Hee Su	P2-ap.202	KIM Hyun	E10.05
KIM Heehun	G4.01	KIM Hyun	P1-ap.126, P1-ap.127, P1-ap.129
KIM Heejung	A6.05		
KIM Heesang	P1-se.030		
KIM Heetae	D5.03	KIM Hyun	P1-at.009
KIM Heetae	P1-st.021	KIM Hyun Soo	P1-pl.039
KIM Heung-Su	P1-pl.009	KIM Hyun Woo	P2-bp.015
KIM Hoekyung	H4.02	KIM Hyunchul	H1.02
KIM Hohyun	P2-pl.041	KIM Hyung Do	E14.06
KIM Hoil	F6.01	KIM Hyung gyu	B1.05
KIM Hong-seok	P1-co.404	KIM Hyunggi	P2-ap.217,

	P2-ap.220	KIM Jin Kyun	P2-bp.023
KIM HyungJoo	C1.06	KIM Jin Young	F3.03
KIM Hyungjun	B4.04	KIM Jinbae	G3.05
KIM Hyunjung	E6.06	KIM Jingul	E6.01
KIM HyunSoo	A3.03	KIM Jinhee	P2-co.114
KIM Hyunsoo	B1.05, P2- pa.030	KIM Jinju	G9.03
		KIM Jinju	P2-pl.022
KIM HyunSoo	H14.09	KIM Jinkyung	P2-co.110
KIM Hyunsoo	P1-pl.034	KIM Jinsu	C8.07,
KIM Hyusub	D12.04		F8.02, P2- co.103
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KIM Ill Won	P2-ap.107	KIM Jinsu	P2-ap.116
KIM Inwook	P1-nu.009	KIM Jinsu	P2-pa.028
KIM Isae	P1-ap.150	KIM Jintae	P1-nu.022
KIM J.	G5.03	KIM Jinuk	P2-op.013
KIM J.	G5.05	KIM JinYu	H14.09
KIM J.H.	G5.01	KIM Jong Goo	D6.01
KIM Jae Hoon	F8.01	KIM Jong Soo	E14.05
KIM Jae Nyeong	G8.09	KIM Jonghyun	H14.08
KIM Jae Woong	P2-co.205	KIM Jongkuk	G14.06
KIM Jaemin	G14.06	KIM Jongwon	A5.04
KIM Jaeseung	E6.06	KIM JongWon	F10.04
KIM Jaewook	P1-pl.001	KIM Joo-Sung	C8.05
KIM Jaewook	P1-pl.004	KIM Joo-Sung	P2-co.111
KIM Jaewook	P1-pl.007	KIM Joondong	A4.07
KIM Jaeyool	H14.08	KIM Joonggyu	B4.01
KIM Jaisoon	A4.03	KIM Joonghan	D6.01
KIM Jang-Joo	E3.01	KIM JooSung	P2-co.109
KIM Jangwoo	P2-co.404	KIM Ju-Jin	G4.03
KIM Jay-Hyun	P1-pl.009,	KIM Juin	P1-st.029
	P1-pl.015	KIM JuJin	P1-ap.108
KIM Jayhyun	G5.01	KIM Jun-Sung	E8.06
KIM Jeong-ah	H3.06	KIM Jun-Woo	F3.01
KIM Jeongho	D6.01	KIM Jun Sung	B8.06
KIM Jeongyong	P1-se.026	KIM Jun Sung	F6.01
KIM Ji-Hyoun	A12.06	KIM Jun Sung	F6.02
KIM Ji Woong	F6.07	KIM Jun Sung	G11.04, P1- co.305
KIM Jichul	F11.09		
KIM Jihun	G5.07	KIM Jun Sung	G8.09
KIM Jihwan	P1-co.405	KIM June-Young	D1.05
KIM Jihyun	G12.04	KIM Jung Hwa	P1-ap.110
KIM Jin-Hun	C12.03	KIM Jungdae	G7.07
KIM Jin-Hun	C12.08	KIM Jungho	G6.07
KIM Jin-Yong	P1-pl.015	KIM Junghwan	P1-co.303

KIM JunHo	P1-ap.153, P1-ap.154, P1-ap.155, P1-ap.156	KIM Kwanpyo	G3.02
KIM Junhoe	C8.03, C8.08, C8.10	KIM Kwanpyo	P1-ap.116
KIM JunSung	G8.07	KIM Kwanpyo	P1-ap.121
KIM Junsung	P1-co.103	KIM Kwon-Hyun	E3.01
KIM Junwoo	P1-ap.138	KIM Kyoo	A6.05
KIM Juyoung	P1-se.019	KIM Kyoo	G8.09
KIM K. S.	H1.07	KIM Kyoo	P1-co.203
KIM K. W.	P1-ap.147	KIM Kyoung-Min	D8.04
KIM Kangwon	A8.05	KIM Kyung Hwan	D6.01
KIM Kangwon	C4.06	KIM Kyung Kiu	C11.06
KIM Kangwon	G3.04, P1- ap.109, P1- ap.114	KIM Kyung Rok	P1-se.031
KIM Kee-Hyun	H9.01	KIM Kyung Taec	A12.07
KIM Kee Hoon	A3.04	KIM Kyung Taec	G9.07
KIM Kee Hoon	B8.04	KIM Kyung Teac	P2-op.031
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KIM Kee Hoon	G6.02	KIM Kyungseung	P2-op.031
KIM Kee Hoon	G8.02	KIM Kyungsik	P1-st.020
KIM Kee Hoon	G8.08	KIM Kyungwan	P1-co.307
KIM Keun-Young	D13.03	KIM Lee Yeong	A12.05
KIM Keun Su	E2.04	KIM LeeYeong	A12.03
KIM Keun Su	F6.01	KIM M.J.	P1-nu.002
KIM KeunSoo	B3.02	KIM Mi Ran	G14.01
KIM Ki-Jeong	D7.05	KIM Min-Seok	A12.04
KIM Ki-Seok	D8.04, H6.05	KIM Min Seok	P2-pl.022
KIM Kihong	G11.07	KIM Min Su	P1-se.026
KIM Kihwan	P1-ap.153	KIM Minbin	H12.04, H12.06, P2- as.001, P2- as.004
KIM Kimoon	E10.02	KIM Minbin	H12.05
KIM Kipom	P2-bp.026	KIM Minjae	P1-st.006
KIM Kitak	B8.07, G11.08	KIM Minjin	P1-co.405
KIM KiWon	P1-ap.161	KIM Minjung	H1.01
KIM Kwangsoo	B1.06, P1- nu.005	KIM Minjung	P1-ap.109
KIM Kwangsoo	P1-nu.004	KIM Minseok	G9.03
KIM Kwanpyo	E7.01, G3.04	KIM Minsoo	P1-co.403
		KIM Minsuk	P2-op.017
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		KIM Minwoo	H7.01
		KIM Miyoung	C8.07
		KIM Miyoung	F8.02
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		KIM Moon-Deock	P1-se.028
		KIM Moon-Deock	P1-se.029

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KIM Myung-Gil	P1-ap.116		P1-st.005,
KIM Myung Jong	P2-ap.202		P1-st.028
KIM Nam-Hee	P1-co.404	KIM Seung	P2-co.106
KIM Nam-kyun	H5.06	KIM Seunghyeon	F11.07
KIM Nam	G4.03	KIM Seunghyeon	P2-bp.039
KIM Nam young	B1.05	KIM Seyong	B13.05
KIM Namdong	E6.03	KIM Shin Hyung	A1.02,
KIM Nammee	P1-se.030		B1.02
KIM Namyong	H14.02	KIM ShinHyung	A1.05
KIM OK Sik	G4.07	KIM Shinhyung	D5.05
KIM On	B14.05	KIM Si-Yong	B11.05
KIM Pilnam	D11.02	KIM Siyeon	H14.09
KIM RakHee	P1-co.404	KIM Siyeon	B14.09
KIM S. K.	A14.02	KIM So Jin	P2-ap.108
KIM S.K.	G5.01	KIM SokWon	G3.06, P1-
KIM Sae Wan	G4.07		ap.150
KIM Sang-Koog	C8.01,	KIM Song-Gang	P1-se.028,
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KIM Sang-Woo	A8.02	KIM Soo-Whan	P2-co.108
KIM Sang-Yoon	F10.03	KIM Soohyun	C8.02
KIM Sang Goon	B8.07	KIM Soohyun	D10.07
KIM Sang Goon	G11.08	KIM Sora	P1-nu.009
KIM Sanghun	C4.06	KIM Sora	P2-ap.218
KIM Sanghwa	G7.07	KIM Suk-Kwon	P1-pl.022,
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KIM Sangyeol	A1.01	KIM Sun-Hee	P1-pl.015
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KIM Sangyong	P2-pa.032	KIM Sun Il	P2-op.029
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	H9.03	KIM Sung Hun	P1-se.006
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KIM SeongJun	B5.03, P2-	KIM Sunghwan	B1.03
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KIM SeongYeon	P1-ap.154,	KIM Sunghwan	P2-op.003
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KIM Seoyoung	P2-op.019	KIM Sungjo	P1-st.022
KIM Seulong	G11.07	KIM Sunkee	P2-pa.005

KIM Sunmin	P2-co.202	KIM Yong-Hyun	P2-co.310
KIM Tae-Heon	P2-co.312	KIM Yong-Jin	A8.02
KIM Tae-Wook	F3.05	KIM Yong ham	B1.05
KIM Tae Hee	C8.04	KIM Yong Jin	B1.01
KIM Tae Hyung	P2-co.320	KIM Yong Soo	C4.07
KIM Tae Jung	P2-ap.116	KIM Yong Soo	G3.04
KIM Tae Soo	P1-co.311	KIM Yong Soo	P1-ap.157
KIM Tae Wu	D6.01	KIM YongHwan	P2-co.208
KIM Tae Young	P2-op.017	KIM Yongmin	P1-se.009
KIM Tae Young	P2-op.019	KIM Yongsun	F1.02
KIM Taek Jung	P1-co.202	KIM Yoojung	C2.08
KIM Taekjung	P1-co.201	KIM Yoon-Ho	C12.03
KIM Taekyu	P2-te.001	KIM Yoon-Ho	C12.04
KIM TAEWAN	B2.01	KIM Yoon-Ho	C12.08
KIM Tai Hoon	A3.04	KIM Yoosung	F5.04
KIM Tea Heon	A8.08	KIM Yosep	C12.04
KIM Un Jeong	C4.01	KIM Young-Kuk	H5.05
KIM Wonyoung	P2-op.017	KIM Young-Kuk	P2-pl.021
KIM Woosin	P1-ap.108	KIM Young-kyoung	P1-co.105
KIM Wootae	B1.05	KIM Young-Min	D4.04
KIM Wooyoung	H14.08	KIM Young Dong	P2-ap.116
KIM Y. G.	P1-pl.034	KIM Young Hak	F6.07
KIM Y. J.	P1-ap.147	KIM Young Jin	A1.07, P1-nu.014
KIM Yang Hwan	A12.07		
KIM Yeon Soo	P1-ap.118	KIM Youngbum	P1-se.026
KIM Yeon Woo	P2-ap.126	KIM Younggeun	P2-pa.031
KIM Yeong duk	B1.05	KIM Younglm	B14.05
KIM Yeong duk	P2-pa.030	KIM Youngjae	E9.05
KIM Yeongduk	H14.04	KIM Youngjae	P1-at.003
KIM YeongDuk	H14.09	KIM Youngjin	A1.01
KIM Yeongduk	P1-nu.011	KIM YoungJu	P1-ap.161
KIM Yeongduk	P2-pa.033	KIM Youngjun	D5.05
KIM Yeongduk	P2-pa.035	KIM Youngkuk	A6.01
KIM Yong-Hamb	F13.04	KIM Youngkwon	D5.03
KIM Yong-Hamb	P1-nu.009	KIM Youngmo	D7.03
KIM Yong-Hoon	E9.04	KIM Yu-Gyeong	E5.04
KIM Yong-Hoon	P2-co.301	KIM Yu-gyeong	P1-pl.039
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KIM Yong-Hoon	P2-co.318	KIM Yun Seok	D4.04
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KIM Yong-Hyun	H7.02	KIM Yunha	P1-st.025
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KO Jae-Hyeon	H7.02	KWAG M. S.	D1.04
KO Jae-Hyeon	P2-co.310	KWAG M.S.	P1-nu.002
KO Jewou	P2-ap.229	KWAK Inho	P1-co.307
KO Jewou	P2-pa.026	KWAK J.G.	G5.05
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KO Kyung-Tae	G3.08	KWAK Sehyun	P1-pl.003
KO kyungYong	B4.04	KWAK Yongsu	P2-co.114
KO S.H.	G5.01	KWEON MinJung	E1.02
KO S.H.	G5.03	KWEON MinJung	H1.01
KO Seo-Jin	F3.03	KWON Chang Il	F6.01
KO W.H.	G5.01	KWON Chulan	B10.02
KO W.H.	G5.05	KWON D.H.	P1-pl.004
KO Won-Ha	G5.03	KWON Duck-Hee	P1-at.002
KO YoungJoon	A3.03	KWON Eunhyang	H14.08
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KOH Seoktae	C11.06	KWON Hyeok-Jung	P2-pl.034
KOLESNIKOV Alexander		KWON J.M.	G5.03
	F6.09	KWON Jin Beom	G4.07
KOLOVSKI Andrey	B12.05	KWON Kangkyu	P2-co.201
KONG Kyoungchul	E14.02	KWON Kyu Been	P2-pl.015
KONO K.	G11.09	KWON Min-Sik	A2.06
KOO Jahyun	G3.04	KWON Min Hee	C4.03
KOO Jeongmin	P1-ap.138	KWON Minji	P1-st.008
KOO Tae-Yeong	P2-co.404	KWON O Woong	D4.04
KOO Tae Yeong	A8.02	KWON Ohjoon	P2-pa.028
KOO Tae Yeong	D4.04	KWON Sangwoo	C2.07
KOSHINO Mikito	B7.05	KWON Soon Yong	P1-co.314
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KREMER R. K.	B8.03		P1-se.018
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KYHM Kwangseuk	P2-ap.107	LEE Donghun	E7.03
LAKE Robert J	F11.01	LEE Donghyuck	E12.02
LAM V. D.	P1-ap.147	LEE Dongwoo	H3.07
LANKAMSETTY Krishna Bharat		LEE Doyu	G14.02
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LE Manh Duc	F6.09	LEE DukHyun	C4.02
LE Van Long	P2-ap.116	LEE Dukhyung	P2-op.012
LEDNEVA Alexandra	C2.03	LEE E.J.	P1-nu.002
LEE Alex Taekyung	B8.06	LEE Eo Hwak	P1-pl.018,
LEE B. W.	P2-co.104		P1-pl.022,
LEE Bong Ju	P2-ap.133		P1-pl.032
LEE Bong Ju	P2-ap.134	LEE Eun-Cheol	P2-ap.216,
LEE Bum-Hoon	C11.07		P2-ap.226,
LEE Bumjoo	P1-co.307		P2-ap.228
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LEE Chang-Hwan	D1.03, P2-	LEE Geunsik	D7.05
	as.005	LEE Gil-Ho	C7.01
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	H4.04	LEE Gwangrog	P2-bp.001
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LEE Chanwoo	P2-bp.003	LEE H.G.	F5.03, P1-
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LEE Cheol Eui	P1-co.309	LEE H.G.	F5.04
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LEE Choong-Ki	G6.06	LEE Han Seul	A1.07,
LEE Chul-Ho	P1-ap.104,		B1.01
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LEE Deok-Sun	P1-st.015	LEE Ho Nyung	F6.07
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LEE Hu-Jong	P1-co.403		P2-ap.220
LEE Hwangho	C8.07	LEE Hyungi	P2-pa.032
LEE Hwangho	G3.08	LEE Hyungsuk	D11.04
LEE Hyang-Rok	F6.04	LEE HyunGyu Joseph	E10.03
LEE Hye Young	H12.01	LEE Hyunsu	B1.05
LEE Hyejin	P1-nu.009	LEE Hyunwoo	G11.05
LEE Hyeon Gon	E5.04, P1-	LEE Il-Buem	P2-bp.028
	pl.016, P1-	LEE Il-Buem	P2-bp.029
	pl.023, P1-	LEE In-Ho	H8.02
	pl.027, P1-	LEE In Gyu	P1-se.022
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	pl.039, P1-	LEE J.H.	G5.03
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	pl.044, P1-	LEE J.W.	G5.01
	pl.045, P1-	LEE J.Y.	G14.05
	pl.047	LEE Ja Yil	E11.01
LEE Hyeon Gon	P1-pl.025	LEE Jae-Hwan	P2-bp.009
LEE Hyeon Gon	P1-pl.026	LEE Jae-Hyeok	C8.01,
LEE Hyeongon	P1-pl.030		C8.03,
LEE Hyeonju	P1-se.017		C8.08
LEE Hyeonsu	P2-bp.034	LEE Jae-Ung	C4.05
LEE Hyerie	P2-bp.041	LEE Jae-Ung	C4.06
LEE Hyerie	P2-pa.011	LEE Jae-Ung	P1-ap.109,
LEE Hyerie	P2-pa.014		P1-ap.114
LEE Hyesong	P1-st.023	LEE Jae-Ung	P1-ap.110
LEE Hyo Sang	P1-nu.014	LEE Jae-Weon	G12.06
LEE Hyosun	P1-se.019	LEE Jae Hwan	P1-st.005
LEE Hyun-Jae	D4.04	LEE Jae Hyeong	G11.04
LEE Hyun-Jung	B8.06	LEE Jae Koo	H5.02
LEE Hyun-Jung	H6.05	LEE Jae Koo	H5.07, P2-
LEE Hyun-Woo	G8.01		pl.008
LEE Hyun Hwi	P2-ap.131	LEE Jae Sung	G4.07
LEE Hyun Jae	F6.08	LEE Jae Yoon	P1-ap.104
LEE Hyun Min	A13.02,	LEE JaeDong	E9.05
	E14.01,	LEE Jaehyun	G5.04
	E14.03	LEE Jaekum	P2-pa.005
LEE Hyun Seok	H4.03	LEE Jaekwang	B6.06,

	H8.08	LEE Jongjin	P2-bp.017
LEE Jaekwang	G7.07	LEE Jongwon	A1.01,
LEE Jaesung	B10.03		D5.05
LEE Jaison	B1.05	LEE Joo-Hyoung	B6.04,
LEE Jaison	H14.09		B6.05
LEE Jason	P2-pa.012,	LEE Joo Hyun	P2-ap.203
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LEE Jason Sang hun	D14.08	LEE Joohee	B6.08
LEE Jason Sang Hun	P2-pa.021	LEE Joohyun	H7.01
LEE Jason Sang Hun	P2-pa.023	LEE Joonbin	P2-pa.008
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LEE Je-Ryung	H3.06	LEE Joonhyuk	F6.06
LEE Jehyun	A12.06	LEE Joonhyuk	F6.07
LEE Jeong Hyuk	A3.04	LEE Jooyoung	H14.02
LEE Jeongeun	C14.03	LEE JooYoung	H14.09
LEE Jhinhwan	B8.05	LEE Joungee	P2-co.309
LEE Jhinhwan	B8.06	LEE Ju Yeon	E11.04
LEE Jhinhwan	E8.06	LEE Ju Yeon	F11.01
LEE Jieun	G5.04	LEE Juho	P2-co.306,
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LEE Jik	F12.01,	LEE Julian	P1-st.005
	H12.05	LEE Jun-Ho	A6.07
LEE Jik	H12.01	LEE Jun Hee	D4.04
LEE Jik	H12.04, P2-	LEE Jun Hee	F6.08
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LEE Jin-Seong	F10.04	LEE Kea Joo	P2-bp.026
LEE Jin Hong	A8.02	LEE Keundong	G4.01
LEE Jinhyoung	C12.01	LEE Ki-bong	C6.01
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LEE Jiyoung	G14.06	LEE Kisoo	F1.02
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LEE Jong-Rim	P2-ap.126,	LEE Kwang Bok	P1-nu.014
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LEE Jong-Wan	B13.02	LEE Kyeongpil	D14.01
LEE Jong-wan	B13.07	LEE KyeoReh	H9.05, P2-
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LEE Kyong Sei	D14.06	LEE Nam Ki	P2-bp.030
LEE Kyoung Jin	E10.03	LEE Nam Ki	P2-bp.039
LEE Kyoung Su	P1-se.008	LEE Namki	P2-bp.011
LEE KyoungJin	E10.05	LEE Nara	P1-co.209
LEE Kyu Won	P1-co.309	LEE Nyun Jong	C8.04
LEE Kyuhyun	B6.07	LEE Ochul	E10.02
LEE Kyujoon	F8.02	LEE Paengro	E6.01
LEE Kyung-Hyun	P1-co.208	LEE S.G.	G5.05
LEE Man Woo	P1-nu.004	LEE Samyol	P1-nu.007
LEE Manwoo	P2-pl.039	LEE Sang-A	F3.05
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LEE Mi Jung	G4.05	LEE Sang-Tae	P1-se.028
LEE Mi Jung	P1-ap.109	LEE Sang-Tae	P1-se.029
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LEE Min Ki	D5.03	LEE Sang Hyun	F3.04
LEE Min Uk	H5.07	LEE Sang Jun	P1-se.008
LEE Minbaek	P2-op.017	LEE Sang Won	G4.07
LEE Minji	D7.01	LEE Sang Wook	P1-ap.109
LEE Minkyu	P1-nu.009	LEE Sangbong	P2-pl.017
LEE Minseok	H9.02, H9.03	LEE SangEun	D14.05
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LEE MooHyun	P2-pa.033	LEE Sangsuk	P2-pa.014
LEE MooHyun	P2-pa.035	LEE SangWook	C4.03
LEE Moosong	A12.04	LEE SangYun	F11.05
LEE Moosong	P1-at.006	LEE Sehwook	D14.09, P2- pa.017, P2- pa.020
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LEE Myoung-Jae	P2-op.009	LEE Seung-Hyun	P2-pl.034
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LEE Nam-Kyung	E10.01	LEE Seung Joon	D14.04
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LEE Seunghun	P1-pl.010	LEE Takhee	P1-ap.138
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LEE Seungtaek	H5.02	LEE Weonjong	A12.01
LEE Seungtaek	P2-pl.008	LEE Won-Kyu	H3.06
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LEE Tae Geol	F3.02	LEE Yu Jin	
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OH Y.K.	G5.05		C1.03
OH Yeong-Kook	G5.02	PARK Aaron	D1.08
OH Yongseok	C1.03	PARK Bae Ho	G4.05
OH Yongseok	C1.04	PARK Bae Ho	P1-ap.109
OH Yoomin	H14.09	PARK BaeHo	C4.02
OH Yoon Seok	E8.07	PARK Baeho	P1-ap.101
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