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GWANGJU



광주관광컨벤션büro

GWANGJU CONVENTION & VISITORS BUREAU

광주광역시 서구 상무로 30, KDJ센터 컨벤션동 1층
KDJ Center Sangmu-ro 30, Seo-gu, Gwangju, Republic of Korea
Tel. 062 611 3624 Fax. 062 611 3612

www.visitgwangju.kr

"UNESCO Creative City of Media Arts

"Home of Art and Culture

"Gwanju's credentials as host city

2013 ... 세계창의도시의스 아카데미(JCI)	30개국	15,000명
2013 ... 세계한상대회	40개국	3,000명
2014 ... 국제관광개발수원위원회총회 (ICID)	62개국	1,561명
2014 ... 세계수소에너지학회총회(WHEC)	68개국	2,465명
2015 ... 광주과학기술원(ICT)총회	170개국	20,000명
2015 ... 국제디지털인형(IDC)총회	16개국	2,114명
2015 ... 국제항공로봇포럼(SAF)	42개국	328명
2015 ... IEEE AINA 국제학회대회	31개국	479명
2015 ... 아시아태평양스카우트총회	43개국	593명
2017 ... 아시아유산포럼총회	10개국	500명
2019 ... 아시아오세아니아지역육종학회	10개국	700명
2019 ... 세계수원수원대회	200개국	20,000명
2020 ... 세계하천수원대회	30개국	1,500명

"Closer than you think

KTX 타고, 1시간 30분만에 광주에 오실 수 있습니다.

		
김포공항 40분	KTX ... 1시간 30분 (안동공항에서 2시간 50분)	BUS 3시간 30분

"Accommodation

편안한 숙박, 비즈니스에서 특급까지 다양한 선택

- ① 라미다플라자 광주호텔 ... Lamada Plaza Hotel *****
특 1급 ... 총 120실 (김대중컨벤션센터에서 차량으로 5분 거리)
- ② 홀리데이인 광주호텔 ... Holiday inn Hotel *****
특 1급 ... 총 205실 (김대중컨벤션센터 바로 맞은편 위치)

"KDJ Convention Center

대형 국제회의에서 소규모 세미나까지, 고개 맞춤형 컨벤션센터

컨벤션홀	다목적홀	중소회의실	전시장
1,500㎡	3,000㎡	28실	500㎡
1,518㎡	2,965㎡	2,583㎡	9,072㎡

"Asia Culture Center

Total 20 conference, meeting, seminar,
6 exhibition spaces and 1 performance space,



한국물리학회 회보

2016 · 10

KPS

2016. 10
제34권 제2호

Bulletin of the Korean Physical Society

한국 물리학회 회보

2016 가을 학술논문발표회 및 임시총회

2016.10. 19(수) - 21(금)
광주 김대중컨벤션센터



KPS 한국물리학회
The Korean Physical Society

This is a new story

2018 한국물리학회 가을학술논문발표회는
창원컨벤션센터에서 개최됩니다



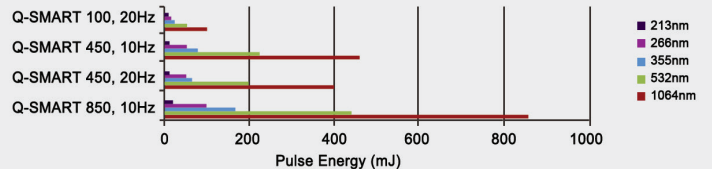
CECO 창원컨벤션센터
Changwon Exhibition Convention Center

The world leader of compact Q-switched Nd:YAG laser

Q-SMART

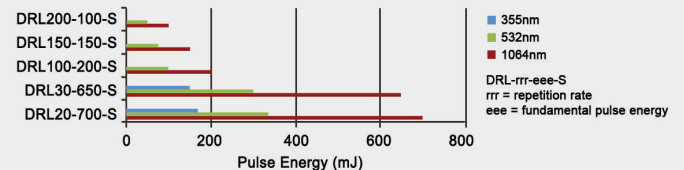
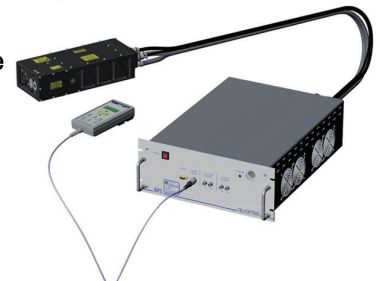
- ✓ Automatic phase matching for harmonics
- ✓ 2년 무상 warranty (optics 포함)
- ✓ Flashlamp 1억 shot warranty

Quantel laser



DRL (Dual ROD Laser)

- ✓ 2 YAG rod pumped by 1 flashlamp each
- ✓ Quick umbilical disconnects
- ✓ Sealed laser head to operate in various environments
- ✓ Ultra compact



큐빅레이저시스템

레이저 및 광학 시스템 계측상담 >> 설계 >> 장치제작
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2016.10

제34권 제2호

Bulletin of the Korean Physical Society

한국 물리학회 회보

2016 가을 학술논문발표회 및 임시총회

2016.10. 19 (수) - 21(금)

광주 김대중컨벤션센터

C o n t e n t s

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- 004 2016 한국물리학회 가을학술논문발표회 및
임시총회 전체일정표
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이번 호의 표지는 이재동(DGIST)*, 윤원석(DGIST), 박노정(UNIST) 회원의 최근 논문 Rectifying the Optical-Field-Induced Current in Dielectrics: Petahertz Diode, PRL 116, 057401 (2016) 에서 모티브를 채택했다. 이 논문에서는 두 개의 서로 다른 절연체의 이중접합에 극고속 레이저 펄스를 입사하여 페타헤르츠 (10^{15} Hz)의 초고속 다이오드를 구현할 수 있음을 이론적으로 제안하였다. 이번 가을 학술논문발표회에서 D2-op세션이 이와 연관된 세션이며, 이재동 회원의 구두발표는 D2.020이다.

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
입자물리학분과	304, 305	포스터 발표장 1층 다목적홀	총회 Convention Hall 3호
핵물리학분과	305, 306		평의원회 Convention Hall 2호
응집물질물리학분과	209, 211, 212, 213, 214, 301		기조강연: 302호
응용물리학분과	209, 210, 211, 213		기초연구사업 포럼: 302호
통계물리학분과	201		여성위원회강연: 304호
물리교육분과	204		한국물리학회 학술지: 301호
플라스마물리학분과	303		KIAS 대중강연: Convention Hall 1호
광학 및 양자전자학분과	204		PRL editor 특별강연: 301호
원자 및 분자물리학분과	204		생물물리특별세션: 201호, 211호
반도체물리학분과	208, 214		
천체물리학분과	301		

4. 포스터 발표

- 이번 포스터 발표는 “포스터 게시”, “포스터 발표”, “우수포스터 시상”으로 진행됩니다.

- 포스터 게시: 발표 당일 13:00부터 발표 다음날 12:00까지 (23시간) 지정장소에 부착

(발표자가 없는 동안에도 자유롭게 포스터를 볼 수 있게 하기 위해 포스터 게시 시간을 대폭 늘렸습니다.)

- 포스터 발표: 발표일 18:00부터 19:30까지 (90분) 현장발표
- 우수포스터 시상: 발표 다음날 11:00 해당 포스터 앞

- 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. 한편, 수요일 포스터 중 우수발표자는 목요일 11:00에 포스터 앞에서 시상합니다.

- 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. 우수발표자는 금요일 11:00에 포스터 앞에서 시상합니다.

- 우수발표상 포스터부문에 신청하신 회원은 우수포스터 시상 시에 자필로 감사의 주시기를 바랍니다.

5. 구두발표

- 모든 학술편과의 동의를 얻어 구두 발표시간을 아래와 같이 통일하여 진행합니다.

일반구두발표를 12분/ 초청발표: 24분 (혹은 36분)

- 우수발표상 후보 논문은 초록요약집에 *로 표시되어 있습니다.

2016 한국물리학회 가을학술논문발표회 및 임시총회 전체일정표

• 광주 김대중컨벤션센터 2016. 10. 19(수)~21(금)

구두발표 (Program by session code)

	Room Number	201	204	208	209	210	211	212	213	214
10월 19일 (수)										
09:00~10:48										
11:00~12:48				Tutorial (T1-Se)						
13:00~13:48	Plenary 1 (Y1-or)-302호									
14:00~15:48	A:Wednesday Afternoon 1	A1-st	A2-at	A3-se	A4-ap	A5-ap	A6-co	A7-co	A8-co	A9-se
16:00~17:48	B:Wednesday Afternoon 2	B1-st	B2-at	B3-se	B4-ap	B5-ap	B6-co	B7-co	B8-co	B9-se
18:00~19:30		Poster I	P1-ap,1	P1-at	P1-co,1	P1-co,2	P1-nu	P1-op	P1-pa	P1-pl
10월 20일 (목)										
09:00~10:48	C:Thursday Morning 1	C1-st	C2-op	C3-se	C4-ap	C5-ap	C6-co	C7-co	C8-co	C9-co
11:00~12:48	D:Thursday Morning 2	D1-st	D2-op	D3-se	D4-ap	D5-ap	D6-co	D7-co	D8-co	D9-co
13:00~13:48	Lunch Break									
14:00~15:48	E:Thursday Afternoon 1	E1-st	E2-op	E3-se	E4-ap	E5-ap	Biophysics (E6-or)	E7-co	E8-co	E9-co
16:00~17:48	F:Thursday Afternoon 2	F1-st	F2-le	F3-se	F4-ap	F5-ap	Biophysics (F6-or)	F7-co	F8-co	F9-co
18:00~19:30		Stat. Phys. Div. Meeting	P2-st	Semicon. Div. Meeting	P2-le	Appl. Phys. Div. Meeting	Poster II	Cond. Mat. Phys. Div. Meeting	Poster II	Poster II
		Poster II	P2-ap,1	P2-ap,2	P2-as	P2-co,1	P2-co,2	P2-co,3	P2-co,4	P2-co,5
10월 21일 (금)										
09:00~10:48	G:Friday Morning 1	Biophysics (G1-or)	G2-op	G3-se	G4-co	G5-ap	G6-ap	G7-co	G8-ap	G9-co
11:00~12:48	H:Friday Morning 2	Biophysics (H1-or)	H2-op	H3-se	H4-ap	H5-ap	H6-co	H7-co	H8-co	H9-co

※ 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] ■ Astrophys [as] ■ Poster [p1, p2]

301	302	303	304	305	306	Convention Hall 1	Convention Hall 2	Convention Hall 3
A10-co			Women in Physics (A13-or)	A14-pa	A15-nu			
B10-co			B13-pa	B14-pa	B15-nu			
P1-se							KPS Fellow Meeting/ Reception (18:45~19:30)	All Hands Meeting
KPS Journals (C10-or)				E C14-pa	C15-nu			
PRL Editor (D10-or)		D12-pl	D13-pa	E D14-pa	D15-nu			
E10-as	NRF (E11-or)	E12-pl	E13-pa	E14-pa	E E15-nu			
Tutorial: Evolution and death of stars (T2-as)		F12-pl	F13-pa	F14-pa	B F15-nu			
Astrophys. Div. Meeting	Poster II	Poster II	Poster II	Particle Phys. Div. Meeting	Nucl. Phys. Div. Meeting	Public Lecture (KIAS) (W1-or)		
P2-co,6	P2-co,7	P2-co,8	P2-co	P2-pl	P2-se		Public session (W2-or) (20:00~22:00)	
G10-as		G12-pl	E G13-pa	G14-pa	G15-nu			
H10-as		H12-pl	B H13-pa	H14-nu	H15-nu			

Program by session title

	Room Number	201	204	208	209	210	211	212	213	214
10월 19일 (수)										
09:00~10:48										
11:00~12:48				Tutorial: Two dimensional materials						
13:00~13:48	Plenary 1 (Y1-or)-302호									
14:00~15:48	A:Wednesday Afternoon 1	Nonequilibrium systems	Quantum Information	Focus: 2D-based energy harvesting I	Plasmonics, Optical Antenna/ Metamaterials	Ti/Perovskite PVs	Focus: Layered Iridates	Bio/Organic Instruments I	E Pioneer: AP-XPS I	Semiconductor Devices
16:00~17:48	B:Wednesday Afternoon 2	E Focus: Soft matter	Atomic/ Molecular Physics	Focus: 2D-based energy harvesting II	Focus: Nano mechanical systems	Acoustic metamaterials/ Materials synthesis	Focus: Layered Iridates	Materials genome	E Pioneer: AP-XPS II	Compound Semiconductors
18:00~19:30		Poster I	P1-ap.1	P1-at	P1-co.1	P1-co.2	P1-nu	P1-op	P1-pa	P1-pl
10월 20일 (목)										
09:00~10:48	C:Thursday Morning 1	Phase Transitions	Optical devices/ characterization	Focus: Energy storage	Focus: Organic Materials/ Devices I	Focus: Thermoelectrics I	E Pioneer: 30th anniversary/HTSC I	Strongly Correlated Systems I	Bio/Organic Instruments II	Focus: Quantum Coherence
11:00~12:48	D:Thursday Morning 2	Biophysics I	THz and MIR spectroscopy	E Pioneer: Self-assembled semiconductor I	Focus: Organic Materials/ Devices II	Focus: Thermoelectrics II	E Pioneer: 30th anniversary/HTSC I	Strongly Correlated Systems II	E Focus: Ultrashort X-ray Sources	Nano and mesoscopic physics
13:00~13:48	Lunch Break									
14:00~15:48	E:Thursday Afternoon 1	Biophysics II	Optical imaging/ technology	E Pioneer: Self-assembled semiconductor II	Focus: Bio-Medical I	Focus: AFM	Biophysics: Brain Imaging	Materials genome	E Pioneer: PAL-FEL I	Focus: Spin/ Orbital/Valley Physics
16:00~17:48	F:Thursday Afternoon 2	Complex Systems	Physics teaching	E Pioneer: Self-assembled semiconductor III	Focus: Bio-Medical II	Focus: Low-D nanomaterials	Biophysics: Structural Studies	Materials genome	E Pioneer: PAL-FEL II	Focus: Sample Growth
18:00~19:30		Stat. Phys. Div. Meeting	P2-st	Semicon. Div. Meeting	P2-te	Appl. Phys. Div. Meeting	Poster II	Cond. Mat. Phys. Div. Meeting	Poster II	Poster II
		Poster II	P2-ap.1	P2-ap.2	P2-as	P2-co.1	P2-co.2	P2-co.3	P2-co.4	P2-co.5
10월 21일 (금)										
09:00~10:48	G:Friday Morning 1	Biophysics: Theory	Lasers/ applications	Low D nano-materials I	Magnetism	2D: Graphene/ Chalcogenide	Nanomaterials/ Device	Computational condensed matter	Biophysics	Surface/ Interface/ Nanomaterials I
11:00~12:48	H:Friday Morning 2	Biophysics: Genome	Light sources	Low D nano-materials II	Magnetism	2D: Black phosphorus/ Chalcogenide	Focus: Ultrathin Ferroelectrics	Computational condensed matter	Superconductivity	Surface/ Interface/ Nanomaterials II

※ **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] Astrophys [as] Poster [p1, p2]

301	302	303	304	305	306	Convention Hall 1	Convention Hall 2	Convention Hall 3
10월 19일 (수)								
Plenary 1 (Y1-or)-302호								
Focus: Graphene/ Topological Materials			Women in Physics	Non-accelerator based experiments I	Nuclear Structure			
Focus: Quantum Coherence			Field and string theory I	Non-accelerator based experiments II	Nuclear Reaction			
P1-se							KPS Fellow Meeting/Reception (18:45-19:30)	All Hands Meeting
10월 20일 (목)								
KPS Journals				Pioneer: T2HK Experiment	Relativistic Heavy Ion Collisions I			
PRL Editor		Focus: X-ray Free Electron Lasers	Field and string theory II	Pioneer: T2HK Experiment in Korea	Relativistic Heavy Ion Collisions II			
Astrophysics Theory	NRF	Focus: Laser Plasma Physics	Particle physics theory I	Accelerator based experiments I	Pioneer: Nuclear Physics with RI beams I			
Tutorial: Evolution and death of stars		Nuclear Fusion I	Particle physics theory II	Accelerator based experiments II	Pioneer: Nuclear Physics with RI beams II			
	Poster II	Poster II	Poster II	Astrophys. Div. Meeting	Nucl. Phys. Div Meeting	Public Lecture (KIAS)		
P2-co6	P2-co7	P2-co8	P2-co9	P2-pl	P2-se		Public session (W2-or) (20:00-22:00)	
10월 21일 (금)								
Astrophysics Experiment		Basic plasmas, Accelerator & Beam	Pioneer: DUNE Experiment	Accelerator based experiments III	Nuclear Exp. Method etc. I			
Astrophysics-general		Nuclear Fusion II	Pioneer: Prospect of DUNE Korea	Hadron Physics/Nuclear Astrophysics	Nuclear Exp. Method etc. II			

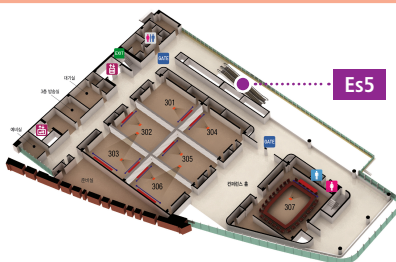
광주 김대중컨벤션센터 회의장 안내도

- 4층으로 이동하시려면 2층에서 에스컬레이터 6번을 이용하세요.
1층 ↔ Es4 ↔ 2층 ↔ Es6 ↔ 4층

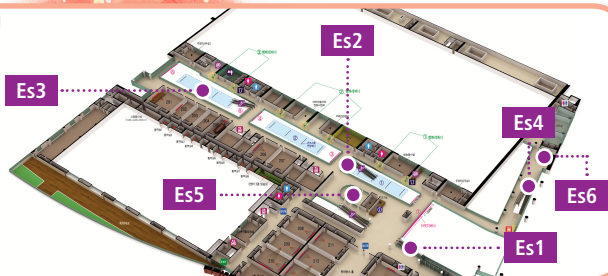
4F



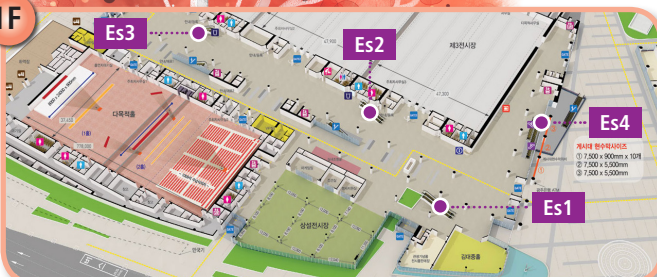
3F



2F



1F

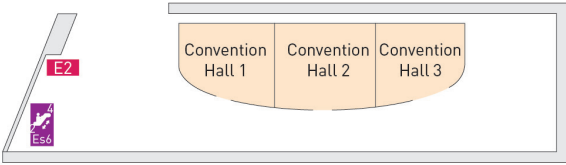


층별 세부 안내도

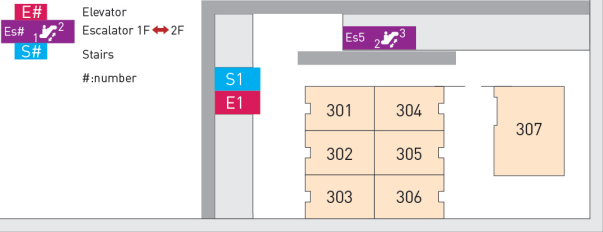
• 2층과 3층은 에스컬레이터 5번을 이용하세요.

2층 ↔ Es5 ↔ 3층

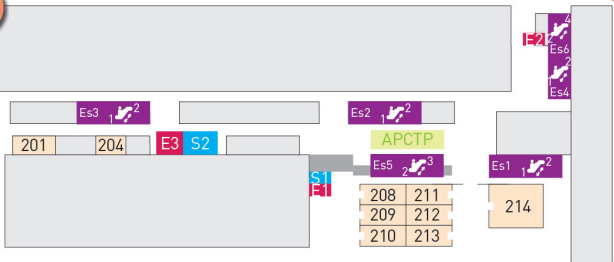
4F



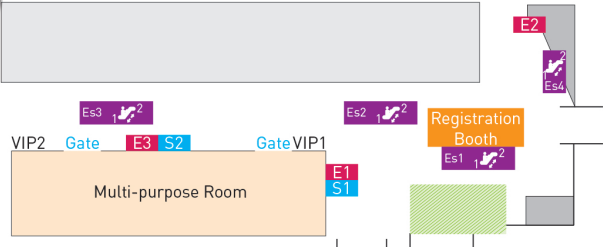
3F



2F



1F



Sessions organized by KPS committees

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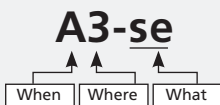
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세션코드 읽는 법 (How to read session codes?)



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

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

(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 | |

The Korean Physical Society

구두발표논문 시간표

Oral session schedule

[Y1-Or] 기조강연 Plenary session

2016. 10.19 (Wed) 13:00 – 13:48

Room 302

좌장: 고 병 원 고등과학원

Chair : KO Pyung-Won (KIAS)

Discovery of neutrino oscillations in Super-Kamiokande and future prospect of researches in Kamioka /Takaaki Kajita (Director, Institute for Cosmic Ray Research, University of Tokyo)

Neutrino oscillations, and therefore the small neutrino masses, were discovered by the studies of atmospheric neutrinos in a large underground detector Super-Kamiokande. The experimental studies that led to the discovery will be discussed. In addition, I will discuss the future prospect of researches in Kamioka.

[A13-Or] 여성위원회 강연

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

2016. 10.19 (Wed) 14:00 – 15:48

Room 304

좌장: 조연정 경북대

Chair : JO Youn-Jung (Kyungpook Nat'l Univ.)

그간 여성세션에서는 일과 가정의 양립, 연구역량 강화 방안 등의 주제로 많은 연사분을 초청하여 활발한 토론의 장을 마련하였습니다. 이번 2016년 가을 여성세션의 주제는 “물리 전공자의 다양한 진로”입니다. 물리를 전공하고 학교나 연구소 이외의 분야에 종사하는 분을 연사로 초청합니다. 이번 주제는 특히 대학원생들에게 좀더 넓은 시야로 진로를 결정할 수 있는 계기가 될 수 있으리라 기대합니다.

[14:00 - 14:05]

인사말 및 여성위원회 활동 소개

[14:05 - 14:35]

여성 물리학 그리고 정치 / 민병주(이화여자대학교)

[14:35 - 15:05]

전문 엔지니어로서의 여성 물리학자 / 서순애(세종대학교)

[15:05 - 15:35]

물리학도가 경험한 국제공무원의 길 / 권순필(ITER Korea, 국가핵융합연구소)

[15:35 - 15:45]

다과 및 토의

[C10-Or] 한국물리학회 학술지의 현황 및 발전 방안 모색

Current status and future prospective of KPS Journals

2016. 10. 20 (Thu), 9:00 – 11:00

Room 301

좌장: 박 성 균 부산대

Chair : PARK Sung-Kyun (Pusan Nat'l Univ.)

최근 급변하는 학술지 현황에 대한 전반적인 이해와 한국 물리학회에서 발간하는 학술지의 상호발전 방안에 대한 이해 증진을 목적으로 한국물리학회 학술지에 대한 토론의 장을 마련합니다.

[9:00 - 9:05]

Opening (인사말)

[9:05 - 9:25]

SCOPUS 등재로 바라본 새물리 현황 및 발전 전략 / 최현우 (인포랑)

[9:25 - 9:40]

JKPS & Springer Nature / Annie Kang (Springer)

[9:40 - 10:00]

Ethics issues for Authors, Reviewer and Editors / Tom Spicer (Springer)

[10:00 - 10:15]

The role of journal editors to make better Journal / Marc Chahin (Elsevier)

[10:15 - 10:35]

Improving South Korea's position in the worldwide Physics Community by capturing high impact content / Marc Chahin (Elsevier)

[D10-Or] PRL Editor 특별 강연

Secret of PRL

2016. 10. 20 (Thu), 11:00 – 12:48

Room 301

좌장: 박 제 근 서울대

Chair: PARK Je-Geun (Seoul National Univ.)

미국물리학회 학술지 PRL(Physical Review Letter)의 Editing 방향에 대해 강연할 예정입니다.

Secrets of PRL / Robert Garisto(Editor, Physical Review Letters)

[E11-Or] 기초연구사업 설명회

Forum for Basic Research Programs in National Research Funding

2016. 10. 20 (Thu), 14:00 – 16:10

Room 302

좌장: 이 궁 원 고려대

Chair: LEE Geung-Won (Korea Univ.)

미래창조과학부와 연구재단 주관으로 정부지원기초연구사업에 대한 내용을 많은 연구자들과 교감하고, 기초연구사업 미래 비전 및 2017년도 사업방향에 대한 의견 수렴하는 장이 마련됩니다

[14:00 - 14:05]

인사말

[14:05 -15:05]

대한민국 미래를 위한 기초연구 발전 비전 / 김성규 과장(미래부 기초연구진흥과)

[15:05 – 16:05]

2017년 기초연구사업 시행계획 의견수렴 / 남계춘 단장 (한국연구재단 자연과학단)

[16:05 - 16:10]

마무리

[E6-Or] 생물물리: 뇌 영상기술의 최신 동향

Biophysics: Frontiers in Brain Imaging

2016. 10. 20 (Thu), 14:00 – 15:48

Room 211

좌장: 박 혜 윤 서울대

Chair: PARK Hye-Yoon (Seoul National Univ.)

현대 뇌과학과 의학에서 첨단 뇌 영상기술의 중요성은 날로 더 커지고 있습니다. 본 특별 세션은 신진 물리학자들에 의해 개발된 첨단 뇌 영상기술의 진보를 물리학회 회원 일반에게 소개하고, 여러 분야의 참가자들과 함께 새로운 연구 방향을 논의하고자 합니다.

[14:00 - 14:36]

Large field of view wavefront shaping for deep brain imaging / PARK Jung-Hoon(UNIST)

[14:36 - 15:12]

Neural map in nanoscale: analysis of serial electron microscope images / KIM Jinseop(Korea Brain Research Institute)

[15:12 - 15:48]

Brain imaging application of photoacoustic tomography / YANG Joon-Mo(Department of Physics, Ulsan National Institute of Science and Technology)

[F6-Or] 생물물리: 구조연구

Biophysics: Structural Studies

2016. 10. 20 (Thu), 16:00 – 17:36

Room 211

좌장: 김 재 업 UNIST

Chair: KIM Jae-Up (UNIST)

단백질부터 세포에 이르는 생체물질의 기능을 이해하기 위해서는 생체물질의 3차원 구조를 정확히 이해하는 것이 필수적입니다. 본 특별 세션은 구조 생물학에서 대표적으로 쓰이는 방법들 중 물리학자들에 의해 급속히 발전하고 있는 X-선 산란, 전자현미경 기법 등을 소개하고, 최신 연구 결과들에 대해 논의하고자 합니다.

[16:00 - 16:24]

XFELs in structural investigation of biological specimens / SONG Changyong(Department of Physics, POSTECH)

[16:24 - 16:48]

Small Angle X-ray Scattering Studies on Structures of Biological Molecules in Solution / JIN Kyeong Sik(Pohang Accelerator Laboratory)

[16:48 - 17:12]

X-ray Crystallography Using a High Pressure Technique / KIM Chae Un(Department of Physics, UNIST)

[17:12 - 17:36]

Solving Near-Atomic Resolution Protein Structures using Single Particle Cryo-Electron Microscopy / HYUN Jaekyung(Center for Electron Microscopy Research, Korea Basic Science Institute)

[W1-Or] KIAS 대중강연: 물리학의 최전선

KIAS public lecture: The frontiers of physics

2016. 10. 20(Thu), 18:00 – 19:30

Convention Hall #3

좌장: 백 승 원 KIAS

Chair: BAEK Seung-Won(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 기여하고자 합니다. 이번에는 성균관대학교 김범준 교수님과 이화여자대학교 최강신 교수님께서 강연해 주실 예정입니다.

[18:00 - 18:45]

물리학으로 보는 인간, 그리고 사회 / 김범준(성균관대학교)

[18:45 - 19:30]

상대성이론에 대한 새로운 이해 / 최강신(이화여대)

학부생 작품 발표회

Undergraduate research poster session

2016. 10. 20 (Thu), 18:00 - 19:30

Place: Multipurpose Hall (1F)

운영자: 서 정 필 DGIST

SEO Jung-Pil(DGIST)

전국의 대학 학부생들을 대상으로 물리에 대한 관심과 흥미를 고취시키고, 교류의 장을 제공하기 위하여 한국물리학회 가을학술논문발표회에 학부생 작품 발표회를 개최합니다.

[G1-Or] 생물물리: 이론연구

Biophysics: Theory

2016. 10. 21 (Fri), 9:00 – 10:36

Room 201

좌장: **현 창 봉** 고등과학원

Chair: HYEON Chang-Bong (KIAS)

최근 10여년 간 생물학 지식의 급격한 확대는 생명현상을 좀 더 정량적으로 해석하고 물리학의 기반에서 이해하고자 하는 노력으로 이어지고 있습니다. 본 특별 세션은 생물물리학 중에서도 고분자물리를 위시한 연성응집물리학 이론이 생명현상의 이해에 대한 어떤 기여를 할 수 있는지에 대해 물리학회 회원들이 접할 수 있는 기회를 제공하고자 합니다.

[09:00 - 09:24]

A Levy walk model for mRNA transport in neurons / 전재형(포스텍 물리학과)

[09:24 - 09:48]

Charged biomolecules in water / JHO YongSeok(IBS-CSLM)

[09:48 - 10:12]

Elasticity of semiflexible biopolymers subject to contour forces / BENETATOS Panayotis(Department of Physics, Kyungpook National University)

[10:12 - 10:36]

WLC model and beyond in Biology / LEE Nam-Kyung(Department of Physics, Sejong University)

[H1-Or] 생물물리: 게놈

Biophysics: Genome

2016. 10. 21 (Fri), 11:00 – 12:48

Room 201

좌장: **이종봉** POSTECH

Chair: LEE Jong-Bong (POSTECH)

유전정보 물질은 세포핵에 질서정연하게 응축된 특정 구조를 이루며 유전정보를 담고 있습니다. 최근의 연구 결과는 유전정보 물질의 공간적 배열 등의 물리적 성질은 유전자 발현과 기능에 영향을 미친다는 것을 보여주고 있습니다. 본 특별 세션에서 유전정보 분석방법, 유전정보 물질의 물리적 성질 및 단백질과의 상호작용 연구 내용을 소개하여, 유전정보 물질의 물리학적 연구를 논의하고자 합니다.

[11:00 - 11:36]

Sequencing everything on Earth: Genome Reading/Sequencing technology / BHAK Jong(Department of Biomedical Engineering)

[11:36 – 12:12]

Visualization of Large Elongated DNA Molecule / 조규봉(서강대학교
화학과)

[12:12 – 12:48]

**Biophysical Studies of DNA-DNA Attraction and the Chromosome
Organization** / KIM Hajin(Department of Biomedical Engineering and
Department of Physics, UNIST)

한국물리학회상 수상기념 강연

A1.01(초) 2016. 10. 19 Wednesday [14:00 - 14:36] Room: #201
Thermodynamics of Langevin systems with velocity-dependent forces / PARK Hyunggyu* (School of Physics, KIAS)

B4.04(초) 2016. 10. 19 Wednesday [17:12 - 17:36] Room: #209
Electro-mechanical Properties of Micro-and Nano-structures for NEMS Application / KIM Hakseong* (Korea Research Institute of Standards and Science, Daejeon 34113, Korea)

C4.01(초) 2016. 10. 20 Thursday [09:00 - 09:24] Room: # 209
Functional high-yield molecular electronic devices / 이택희* (서울대학교 물리천문학부)

E13.01(초) 2016. 10. 20. Thursday [14:00-14:24] Room: #304
Quarkonium Physics/Some College Physics Problems / LEE Jungil* (Department of Physics, Korea University)

F9.01(초) 2016. 10. 20. Thursday [16:00 - 16:24] Room: #214
Grain boundary free 의 비밀과 단결정은행의 찾아가는 서비스 / 정세영* (부산대학교 나노과학기술대학 광메카트로닉스공학과)

[T1-se] Tutorial session : Two dimensional materials

2016. 10. 19 (Wed) 11:00 – 11:24

Room 208

좌장: 송 영 민 광주과학기술원

Chair: SONG Young-Min(GIST)

[11:00 - 11:24]

2차원 물질의 기초 및 전자소자 응용 (Two-dimensional materials: fundamentals to applications) / 이관형(연세대)

그래핀과 전이금속 디칼코겐화물과 같은 2차원 물질은 기존의 물질이 가지고 있지 못한 새로운 특성의 발견을 가능케 하여 이에 대한 연구가 최근 전세계적으로 활발하게 이루어지고 있다. 2차원 물질은 결정구조의 특이성 및 원자층 수준의 두께로 인해 특별한 밴드구조를 가지고 양자구속효과의 영향을 크게 받아 새로운 물리적인 발견을 가능케 하였다. 2차원 물질의 기초적인 물성의 탐구에서 시작한 연구는 합성, 물성 제어, 상변이, 소자 응용연구까지 광범위한 부분으로 파급되고 있으며 이제는 이 물질을 상용화하기 위한 글로벌 기업들의 경쟁이 활발하게 이루어지고 있다. 따라서 2차원 물질의 효율적인 연구를 위해서는 기본적인 특성의 이해부터 최근 연구동향의 파악을 통한 응용연구까지 이루어져야 하고 이를 위해 학문의 경계를 초월한 다양한 접근방법을 통한 연구의 확장이 필수적이다. 본 강연에서는 2차원 물질의 연구를 위해 필수적으로 알아야 할 기초 특성부터 소재의 합성법 및 분석 방법을 소개할 것이다. 여기에 반데르발스 이종구조를 이용한 응용소자 연구 및 2차원 물질로 가능한 새로운 응용 분야를 소개하여 2차원 물질 연구자들의 이해도를 높이고 새로운 연구방향을 제시하고자 한다.

[T2-as] Tutorial: Evolution and Death of Stars

2016. 10. 20 (Thu) 16:00 ~ 18:00

Room 301

좌장: 조 인 용 서울과학기술대학교

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

[16:00 - 17:00]

별의 진화: 주계열에서 초신성까지 / 윤성철(서울대학교)

빅뱅 이후 별은 중원소의 합성, 우주의 재이온화, 초신성 폭발을 통한 역학적 피드백 등 우주의 진화에 중요한 역할을 해왔다. 별의 죽음과 함께하는 초신성 폭발 현상은 초기 우주의 별형성 역사, 허블 상수와 우주 팽창 속도 측정 등, 우주론을 위한 중요한 도구로도 사용된다. 최근에는 중력파의 검출 및 다양한 형태의 초신성과 감마선 폭발체의 관측을 통해 항성진화이론의 급격한 발전이 이루어지고 있다. 이 강의에서는 항성 진화의 기본 원리를 설명하고 최신 관측을 통한 항성진화이론 연구 동향을 소개한다.

[17:00 - 18:00]

백색왜성, 중성자별, 블랙홀 / 이창환(부산대학교)

별의 진화 마지막 단계에서 형성되는 중성자별과 블랙홀은 2015년 중력파 발견으로 새로운 전기를 맞고 있다. 또한 백색왜성과 중성자별은 양자역학이 별의 구조를 결정할 수 있다는 것을 보여준 매우 중요한 천체이다. 백색왜성은 전자의 축퇴압력, 즉 전자기상호작용에 의해 구조가 거의 결정되는 반면, 중성자별은 양성자와 중성자와 같은 강입자들의 축퇴압력, 즉 강상호작용에 의해 구조가 결정된다. 그런데, 강상호 작용의 특성상 근사적 계산이 불가능하여 아직도 중성자별의 구조는 명확히 밝혀지지 않고 있다. 이번 강의에서는 백색왜성과 중성자별의 내부 구조, 중성자별과 블랙홀의 진화, 그리고 중력파에 이르기까지 고중력천체와 관련된 물리학 및 천체물리학적 연구 동향을 강의한다.

SESSION A

2016 October 19(Wed) 14:00–15:48

[A1-st] Nonequilibrium systems

2016, 10, 19 Wednesday 14:00 – 15:12

Room: #201

좌장 : 노 재 동 서울시립대학교

Chair: NOH Jae-Dong (University of Seoul)

A1,01(초) [14:00 - 14:36]

Thermodynamics of Langevin systems with velocity-dependent forces / PARK Hyunggyu*(School of Physics, KIAS)

A1,02* [14:36 - 14:48]

Initial ensemble dependence of Jarzynski equality in the thermodynamic limit / 전의진¹, 김용운^{*1}, 이주연^{*2}(¹한국과학기술원 나노과학기술대학원, ²부산대학교 물리학과)

A1,03 [14:48 - 15:00]

Physical ageing of the fractional Arcetri model / DURANG Xavier*, HENKEL Malte(KIAS, School of Physics)

A1,04 [15:00 - 15:12]

Anomalous behavior of the synchronization stability on power-grid networks / KIM Heetae¹, LEE Sang Hoon², SON Seung-Woo^{*3}(¹Asia Pacific Center for Theoretical Physics, ²School of Physics, Korea Institute for Advanced Study, ³Department of Applied Physics Hanyang University)

[A2-at] Quantum Information

2016, 10, 19 Wednesday 14:00 – 15:24

Room: #204

좌장 : 안 재 욱 한국과학기술원

Chair: AHN Jae-Wook (KAIST)

A2,01* [14:00 - 14:12]

Manipulating photon statistics using second-order interference between two mutually incoherent laser beams / HONG Kang-Hee¹, JUNG Ji-Sung², CHO Yong-Wook², HAN Sang-Wook², MOON Sung², KIM Yong-Su², KIM Yoon-Ho^{*1}(¹Department of Physics, Pohang University of Science and Technology (POSTECH), Korea, ²Center for Quantum Information, Korea Institute of Science and Technology (KIST), Korea)

A2,02 [14:12 - 14:24]

Characterization and optimization of single qubit operations

in superconducting transmon qubit system / NOH Taewan¹, PARK Gwanyeol^{1,2}, CHOI Gahyun^{1,4}, CHOI Jiman^{1,3}, LEE Soongul², PARK Kibog⁴, SONG Woon¹, CHONG Yonuk^{1,3}(¹Korea Research Institute of Standards and Science (KRISS), ²Korea University, Sejong campus, ³University of Science and Technology (UST), ⁴Ulsan National Institute of Science and Technology (UNIST))

A2.03* [14:24 - 14:36]

Power robust qubit preparation using a shaped Gaussian pulse / JO Hanlae, LEE Han-gyeol, AHN Jaewook*(Department of Physics, KAIST)

A2.04 [14:36 - 14:48]

이온트랩 기반의 양자 메모리 칩과 동위원소 이온 냉각을 통한 저장시간 향상 / 권영대¹, 안준식², 홍석준¹, 이민재¹, 박윤재¹, 조동일¹, 김태현²(¹서울대학교 자동화시스템공동연구소, ²SK Telecom, Quantum Tech. Lab.)

A2.05 [14:48 - 15:00]

Quantum indistinguishability of entangled many photons in coherent state / 이수용*(고등과학원 계산과학부)

A2.06 [15:00 - 15:12]

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

A2.07* [15:12 - 15:24]

Defect-free preparation of two-dimensional single atom arrays by feedback control / LEE Woojun, KIM Hyosub, AHN Jaewook*(Department of Physics KAIST)

[A3-se] Focus session: Graphene/2D materials-based energy harvesting I

2016. 10. 19 Wednesday 14:00 – 15:36

Room: #208

좌장 : 이 관 형 연세대학교

Chair: LEE Gwan-Hyoung(Yonsei Univ.)

A3.01(초) [14:00 - 14:24]

Operation of Rechargeable Li-O₂ Cells without CO₂ Evolution / KANG Seok Ju*(School of Energy and Chemical Engineering)

A3.02(초) [14:24 - 14:48]

Photoelectrochemical water splitting with InGaN/GaN core-shell nanowire for solar hydrogen generation / EBAID Mohamed, KANG Jin-Ho, RYU Sang-Wan*(Department of Physics, Chonnam National University)

A3,03(초) [14:48 - 15:12]

Active hydrogen evolution in a pristine MoTe₂ single crystal / YANG Heejun* (Department of Energy Science, Sungkyunkwan University)

A3,04(초) [15:12 - 15:36]

Energy interactions in two-dimensional crystals-based heterostructures / YU Young-Jun* (Materials & Components Basic Research Group, Electronics and Telecommunications Research Inst.(ETRI))

[A4-ap] Plasmonics, Optical Antenna and Metamaterial

2016. 10. 19 Wednesday 14:00 – 15:48

Room: #209

좌장 : 김 동 욱 이화여자대학교

Chair: KIM Dong-Wook (Ewha Womans Univ.)

A4,01(초) [14:00 - 14:24]

Overcoming radiation trapping effect by a cuboid slot / 이장원¹, 천상모² (¹한밭대학교 기초과학부, ²서울대학교 IBS Center for Correlated Electron Systems)

A4,02 [14:24 - 14:36]

Single photon emission of InAs QD with GaAs/Air-gap based Distributed Bragg Reflector / 김지훈¹, 노일표², 송진동² (¹Quantum Functional Semiconductor Research Center, Dongguk University, ²Center for opto-electronic materials, Korea Institute of Science and Technology)

A4,03* [14:36 - 14:48]

Directional-coupler-type polarization beam splitter with a bridged silicon wire waveguide for high polarization extinction ratios / LEE Moon-Hyeok, KIM Dong Wook, KIM Yudeuk, HWANG Byeong Hoon, KIM Kyong Hon* (Department of Physics Inha University)

A4,04 [14:48 - 15:00]

Semiconductor type dependent role of metal nanoparticle in metal/semiconductor nanostructured junction / JANG Jae-Won* (Department of Physics Pukyong National University)

A4,05* [15:00 - 15:12]

Broadband and Strong Optical Absorption in Diameter-modulated Silicon Nanowire Arrays / KO Minjee¹, BAEK Seong-Ho², SONG Bokyung¹, KANG Jang-Won¹, CHO Chang-Hee^{*1} (¹Department of Emerging Materials Science, DGIST, ²Division of Nano · Energy Convergence Research, DGIST)

A4.06 [15:12 - 15:24]

An optical slot antenna as a magnetic dipole / PARK Yeonsang*, KIM Jineun, ROH Young-Geun, LEE Chang-Won (Samsung Advanced Institute of Technology)

A4.07* [15:24 - 15:36]

전반사 감쇠법을 이용한 TiN의 플라즈모닉 특성 연구와 메타물질 응용 / 신은진^{*1}, 이연의^{*1}, 김민재^{*1}, 이승모^{*2}, 이지혜^{*2}, 우정원^{*1} (¹이화여자대학교 물리학과, ²기계연구원 나노융합기계연구본부)

A4.08 [15:36 - 15:48]

Identification of Surface Plasmon, Hyperbolic Dispersion and Interference Effects on Spontaneous Emission near Metamaterial Nanostructures / LEE Kwang Jin¹, LEE Yeon Ui¹, XIAO Yiming², MAGER Loïc⁶, KIM Sang Jun³, KIM Sang Youl^{3, 4}, MATHEVET Fabrice², RIBIERRE Jean-Charles¹, WU Jeong Weon^{*1}, André Pascal^{*1, 5} (¹Department of Physics, CNRS-Ewha International Research Center, Ewha Womans University, ²Sorbonne Universités, UPMC Univ., ³Ellipso Technology Co. Ltd., ⁴Department of Physics, Ajou University, ⁵Elements Chemistry Laboratory, RIKEN, ⁶Département d'Optique Ultra-Rapide et Nanophotonique, Institut de Physique et Chimie des Matériaux)

[A5-ap] Topological Insulator/Perovskite photovoltaics

2016. 10. 19 Wednesday 14:00 - 15:24

Room: #210

좌장 : 조 만 호 연세대학교

Chair: CHO Mann-Ho (Yonsei Univ.)

A5.01* [14:00 - 14:12]

Gate controlled Photothermoelectric Effect in Topological insulator. / LEE Seungmin¹, KHO Byung Woo², PARK Jun¹, KIM Ho Il², LEE Jekwan¹, CHA Soonyoung¹, PARK Sungjoon¹, SHIN Hoseung¹, KIM Jun Sung², CHOI Hyunyong^{*1} (¹School of Electrical and Electronic Engineering, Yonsei University, Seoul 120-749, Korea, ²Department of Physics, Pohang University of Science and Technology, Pohang, 790-784, Korea)

A5.02* [14:12 - 14:24]

Gate-tunable infrared photodetectors based on a graphene-Bi₂Se₃ heterostructure with high responsivity at room temperature / PARK Sungjoon¹, KIM Jaeseok¹, JANG Houk¹, KOIRALA Nikesh², LEE Jae-bok¹, KIM Un Jeong³, ROH Younggeun³, LEE Hyangsook⁴, SIM Sangwan¹, CHA Soonyoung¹, IN Chihun¹, PARK Jun¹, LEE Jekwan¹, MOON Jisoo², SALEHI Maryam⁵, SUNG Ji Ho⁶, JO Moon-Ho^{6, 7}, OH Seongshik^{2, 8}, AHN Jong-Hyun¹, HWANG Sungwoo³, KIM Dohun^{*9}, CHOI Hyunyong^{*1} (¹School of Electrical and Electronic Engineering, Yonsei University, ²Department of Physics and Astronomy, Rutgers, The State University of New

Jersey, ³Device Lab, Samsung advanced institute of technology, Samsung electronics Co., ⁴AE Group, Samsung advanced institute of technology, Samsung electronics Co., ⁵Department of Materials Science and Engineering, Rutgers, The State University of New Jersey, ⁶Division of Advanced Materials Science, Pohang University of Science and Technology, ⁷Department of Materials Science and Engineering, Pohang University of Science and Technology, ⁸Institute for Advanced Materials, Devices and Nanotechnology, The State University of New Jersey, ⁹Department of Physics and Astronomy, Seoul National University)

A5.03* [14:24 - 14:36]

Ultrafast control of plasmon-phonon coupling using topological phase transition in $(\text{Bi}_{1-x}\text{In}_x)_2\text{Se}_3$ / SIM Sangwan¹, PARK Jun¹, KOIRALA Nikesh², LEE Seungmin¹, BRAHLEK Matthew², MOON Jisoo², SALEHI Maryam², KIM Jaeseok¹, CHA Soonyoung¹, SUNG Ji Ho³, JO Moon-Ho³, OH Seongshik², CHOI Hyunyong^{*1} (¹School of Electrical and Electronic Engineering Yonsei University, ²Department of Physics and Astronomy, Rutgers, The State University of New Jersey, Piscataway, ³Department of Materials Science and Engineering, Pohang University of Science and Technology)

A5.04* [14:36 - 14:48]

Fano coupling of Dirac surface plasmon and phonon in topological insulator Bi_2Se_3 microslits / IN Chihun^{1,2}, SIM Sangwan¹, PARK Jun¹, KIM Jaeseok¹, PARK Sungjoon¹, KOIRALA Nikesh³, BRAHLEK Matthew³, MOON Jisoo³, SALEHI Maryam⁴, OH Seongshik³, CHOI Hyunyong^{*1} (¹School of Electrical and Electronic Engineering, Yonsei University, Seoul 120-749, South Korea, ²Center for Quantum-Beam-based Radiation Research, Korea Atomic Energy Research Institute, Daejeon 30, ³Department of Physics and Astronomy, Rutgers, The State University of New Jersey, Piscataway, New Je, ⁴Department of Materials Science and Engineering, Rutgers, The state University of New Jersey, Piscat)

A5.05* [14:48 - 15:00]

Tuning resonant second harmonic generation of monolayer MoS_2 by selenium doping / LE Chinh Tam¹, ULLAH Farman¹, RHIM Sonny H.¹, JANG Joon I.², CHUNG Koo-Hyun³, SEONG Maeng-Je⁴, PARK Sungkyun⁵, KIM Yong Soo^{*1} (¹Department of Physics, Chung-Ang University, ²Department of Physics, Pusan National University, ³Department of Physics and Energy Harvest Storage Research Center, ⁴Department of Physics, Applied Physics and Astronomy, Binghamton University, ⁵School of Mechanical Engineering, University of Ulsan)

A5.06* [15:00 - 15:12]

Efficiency enhancement of perovskite solar cells with nanostructured photoactive layers / 박태준, 여정환, 이순일, 하나영* (아주대학교 에너지시스템학부 물리학전공)

A5.07* [15:12 - 15:24]

Visible-wavelength distributed feedback laser from formamidinium lead halide perovskites thin films / 차형래¹, 배승환², 정현호³, 전현수^{*1}. ³(서울대학교 생물물리 및 화학생물학과, ²한국 과학 기술연구원 광전 하이브리드 연구센터, ³서울대학교 물리천문학부)

[A6-co] Focus session: Physics of Electrons in Layered Iridates

2016. 10. 19 Wednesday 14:00 - 15:24

Room: #211

좌장 : 전 건 상 이화여자대학교

Chair: JEON Gun-Sang (Ewha Womans Univ)

A6.01(초) [14:00 - 14:36]

Electronic structures and excitation spectra in correlated spin-orbit oxides: Sr_2IrO_4 and Na_2IrO_3 / MIN Byung Il*, KIM Beom Hyun, KIM Minjae, KIM Bongjae, KIM Kyoo(Department of Physics, POSTECH)

A6.02(초) [14:36 - 15:12]

Infrared study on the electronic response of $(\text{Sr}_{1-x}\text{La}_x)_3\text{Ir}_2\text{O}_7$ / MOON Soonjae*(Department of Physics, Hanyang University)

A6.03* [15:12 - 15:24]

Band Gap and Physical Parameters of the Kitaev Material $\alpha\text{-RuCl}_3$ / 신수빈^{*1, 2}, 김충현^{1, 2}, 김범현³, 이경동⁴, 원종재⁴, 오지섭^{1, 2}, 한문섭⁵, 장영준⁵, 허남정⁴, Hitoshi Sato⁶, 박병규⁷, 김창영^{1, 2}, 김형도^{1, 2}, 노태원^{1, 2} (¹기초과학연구원 (IBS) 강상관계물질연구단, ²서울대학교 물리학과, ³RIKEN, ⁴인하대학교 물리학과, ⁵서울시립대학교 물리학과, ⁶HiSOR, ⁷포항가속기연구소)

[A7-co] Bio/Organic/Instruments I

2016. 10. 19 Wednesday 14:00 - 15:24

Room: #212

좌장 : 홍 성 철 서울대학교

Chair: HOHNG Sung-Chul (Seoul National Univ.)

A7.01(초) [14:00 - 14:24]

Genome editing using CRISPR nucleases and its applications / BAE Gansu*(Department of Chemistry, Hanyang University)

A7.02* [14:24 - 14:36]

LPS의 TLR4/MD2 복합체로의 전달에 관한 구조 및 형광 연구 / 류제경^{1, 2}, 김수진³, 나상현^{1, 2, 7, 8}, 강지인³, 정희은³, 이흥규^{3, 4}, 이지오⁵, 박범석⁶, 윤태영^{*1, 2, 7, 8}, 김호민^{*3, 4} (¹단분자시스템생물학연구단, ²한국과학기술원 물리학과, ³한국과학기술원 의과학제전공, ⁴한국과학기술원 의과학대학원, ⁵한국과학기술원 화학과, ⁶을지대학교 임상병리학과, ⁷기초과학연구원 나노의학연구단, ⁸연세대학교 Y-IBS)

A7.03 [14:36 - 14:48]

Simultaneous kinetic analysis of multiple states of EGFR in a living cell using Single-molecule diffusivity / KIM Dong-Kyun¹, LEE Nam Ki^{*1, 2}(¹School of Interdisciplinary Bioscience and Bioengineering, ²Department of Physics)

A7.04* [14:48 - 15:00]

Effects of Transcription-Translation coupling on stochastic gene expression / YANG Sora¹, KIM Seunghyeon¹, YOO Gyeongji², LEE Nam Ki^{*1, 2} (¹Department of Physics POSTECH, ²School of Interdisciplinary Bioscience and Bioengineering (IBIO) POSTECH)

A7.05 [15:00 - 15:12]

A single-molecule analysis of CRISPR/Cpf1-derived RNA-guided Endonuclease / 장윤수¹, 최윤희¹, 배상수², 이상화^{*1}(¹광주과학기술원 고등광기술연구소, ²한양대학교 화학과)

A7.06 [15:12 - 15:24]

Unveiling the pathway to Z-DNA in protein-induced B-Z transition / KIM Sook Ho^{1, 2}, LIM So-Hee^{1, 3}, LEE Ae-Ree⁴, KWON Do Hoon⁵, SONG Hyun Kyu^{1, 5}, LEE Joonhwa⁴, CHO Minhaeng^{1, 3}, JOHNER Albert⁷, LEE Namkyung^{*6, 7}, HONG Seok-Cheol^{*1, 2}(¹Center for Molecular Dynamics and Spectroscopy, Institute of Basic Science, Seoul 02841, South Korea, ²Department of Physics, Korea University, Seoul 02841, South Korea, ³Department of Chemistry, Korea University, Seoul 02841, South Korea, ⁴Department of Chemistry and RINS, Gyeongsang National University, Jinju 52828, South Korea, ⁵Department of Life Sciences, Korea University, Seoul 02841, Korea, ⁶Department of Physics, Sejong University, Seoul 05006, South Korea, ⁷Institute Charles Sadron, CNRS 23 rue du Loess 67034, Strasbourg cedex 2, France)

E [A8-co] Pioneer symposium : Operando Science with AP-XPS at Pohang Light Sources

2016. 10. 19 Wednesday 14:00 – 15:36

Room: #213

좌장 : 문봉진 광주과학기술원

Chair: MUN Bongjin Simon (GIST)

A8.01(초) [14:00 - 14:36]

Advances in in situ X-ray photoemission spectroscopy at SOLEIL: from "fast photoemission" to near ambient pressure measurements / ROCHET François*(Sorbonne Universités, Université Pierre et Marie Curie, Laboratoire de Chimie Physique)

A8.02(초) [14:36 - 15:12]

In situ observation of electrochemical processes at electrode/

A8.03(초) [15:12 - 15:36]

On the observation of CO adsorption at Pt(111) surface in formic acid oxidation via ambient-pressure XPS / JEONG Beomgyun¹, JEON Hongrae², CRUMLIN Ethan J.³, MUN Bongjin Simon^{*4}, LEE Jaeyoung⁵
(¹Advanced Nano-Surface Research Group, Korea Basic Science Institute, ²Non-proliferation system research division, Korea Atomic Energy Research Institute, ³Advanced Light Source, Lawrence Berkeley National Laboratory, ⁴Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ⁵School of Earth Science and Environmental Engineering, Gwangju Institute of Science and Technology)

[A9-se] Semiconductor Devices

2016. 10. 19 Wednesday 14:00 – 15:48

Room: #214

좌장 : 류 미 이 강원대학교

Chair: RYU Mee-Yi (Kangwon National University)

A9.01(초) [14:00 - 14:24]

Transient Simulation Using a Deterministic Boltzmann Equation Solver / HONG Sung-Min* (EECS, Gwangju Institute of Science and Technology)

A9.02* [14:24 - 14:36]

Formation of Intact Schottky Junction with Graphene Diffusion Barrier / YOON Hoon Hahn¹, JUNG Sungchul¹, CHOI Gahyun¹, KIM Junhyoung², JEON Youngeun², KIM Yong Soo³, JEONG Hu Young⁴, KIM Kwanpyo¹, KWON Soon-Yong⁵, PARK Kibog^{*1, 2} (¹Department of Physics, UNIST, ²School of Electrical and Computer Engineering, UNIST, ³Department of Physics, University of Ulsan, ⁴UNIST Central Research Facilities (UCRF), UNIST, ⁵School of Materials Science and Engineering, UNIST)

A9.03* [14:36 - 14:48]

Interface Characteristics of Graphene-Si Heterostructures / 박흥기, 박준하, 최재우* (경희대학교 정보디스플레이)

A9.04 [14:48 - 15:00]

Analysis of threshold switching characteristics of Tellurium-based chalcogenide material alloy. / 연범모¹, 강태성², 홍진표^{*1}. ²(¹한양대학교 나노반도체공학과, ²한양대학교 물리학과)

A9.05(초) [15:00 - 15:24]

Direct integration of semiconductor photonic nanocavities with paper substrates / KIM Sejeong¹, KO Hyojin², LEE Yong-Hee¹, SHIN

Kwanwoo², CHO Yong-Hoon*¹(¹Department of Physics Korea Advanced Institute of Science and Technology (KAIST), ²Department of Chemistry and Institute of Biological Interfaces Sogang University)

A9,06 [15:24 - 15:36]

Growth, transport and thermoelectric properties of $\text{SnSe}_{1-x}\text{S}_x$ (0 < x < 1) single crystals / NGUYEN Thi Minh Hai, DUONG Anh Tuan, NGUYEN Van Quang, CHO Sunglae* (Department of Physics and Energy Harvest Storage Research Center, University of Ulsan, Ulsan 44610)

A9,07 [15:36 - 15:48]

Thermoelectric properties of n-type polycrystalline SnSe doped with Bi / NGUYEN Van Quang¹, DUONG Anh Tuan¹, NGUYEN Thi Huong¹, RHIM S.H¹, CHO Sunglae*¹, LEE Ji Eun², PARK Su-Dong² (¹Department of Physics and Energy Harvest Storage Research Center, University of Ulsan, Ulsan 680-749, ²Thermoelectric Conversion Research Center, Creative and Fundamental Research Division, KERI, Changwon)

[A10-co] Focus session: Nano/Mesoscopic system, Graphene and Topological Materials

2016, 10, 19 Wednesday 14:00 – 15:48

Room: #301

좌장 : 이 후 종 포항공과대학교

Chair: LEE Hu-Jong (POSTECH)

A10,01(초) [14:00 - 14:36]

A Weyl metallic state in the $\text{Bi}_{0.96}\text{Sb}_{0.04}$ alloy and its anomalous electronic transport / KIM Heon-Jung* (Department of Physics, Daegu University, Republic of Korea)

A10,02(초) [14:36 - 15:12]

Phase transitions driven by interlayer electronic ordering in van der Waals solids / LEE Sung-Hoon* (Institute for Basic Science)

A10,03(초) [15:12 - 15:48]

Valley-symmetric transport in ballistic mono- and bi-layer graphene / LEE Hu-Jong* (Physics of POSTECH)

[A11] No session

[A12] No session

[A13-or] Women in physics

2016. 10. 19 Wednesday 14:00 – 15:45

Room: #304

좌장 : 조 연 정 경북대학교

Chair: JO Youn-Jung (Kyungpook National Univ.)

A13.01(초) [14:05 - 14:35]

여성 물리학 그리고 정치 / 민병주*(이화여자대학교)

A13.02(초) [14:35 - 15:05]

전문 엔지니어로서의 여성 물리학자 / 서순애*(세종대학교)

A13.03(초) [15:05 - 15:35]

물리학도가 경험한 국제공무원의 길 / 권순필*(ITER Korea, National Fusion Research Institute)

E [A14-pa] Non-accelerator based particle physics experiments I

2016. 10. 19 Wednesday 14:00 – 15:48

Room: #305

좌장 : 박 명 렬 동신대학교

Chair: PAC Myoung-Youl (Dongshin Univ.)

A14.01 [14:00 - 14:12]

New Results from RENO / SEO Seon-Hee^{*1}, KIM Wooyoung², PARK Seongwoo², PARK Ingon³, JANG Jeeseung⁴, PAC MyoungYoul⁵, CHOI Juneho⁵, JANG Hanil⁶, GWON EunHyang¹, KIM Sangyong¹, KIM Soo-Bong¹, SEO Hyunkwan¹, YANG Jeongyeol¹, LEE Dongha¹, LEE Yongchang¹, LEE Hyeonki¹, KIM Jonggeon⁷, KIM JongHyeon⁷, YANG Janghee⁷, YU Intae⁷, CHOI Youngil⁷, ROTT Carsten⁷, KIM Hyunsoo⁸, KIM Baro⁹, KIM Seungchan⁹, KIM Jaeyool⁹, MOON Dongho⁹, PARK Ryeonggoon⁹, SHIN Changdong⁹, YEO Insung⁹, JOO Kyungkwang⁹, LIM Intaek¹⁰(¹Department of Physics and Astronomy Seoul National University, ²Department of Physics Kyungpook National University, ³Department of physics Gyeongsang National University, ⁴GIST College Gwangju Institute of Science and Technology, ⁵Department of Radiology Dongshin University, ⁶Department of Fire Safety Seoyeong University, ⁷Department of Physics Sungkyunkwan University, ⁸Department of Physics and Astronomy Sejong University, ⁹Department of Physics Chonnam National University, ¹⁰Department of Physics Education Chonnam National University)

A14.02* [14:12 - 14:24]

Energy dependent disappearance of reactor antineutrinos with neutron capture on hydrogen at RENO /

신창동¹, 주경광¹, 김바로¹, 김승찬¹, 김재률¹, 문동호¹, 박령균¹, 여인성¹, 임인택¹, 김우영², 박성우², 박인곤³, 장지승⁴, 박명렬⁵, 최준호⁵, 장한일⁶, 권은향⁷, 김상용⁷, 김수봉⁷, 서선희⁷, 서현관⁷, 양정열⁷, 이동하⁷, 이용창⁷, 이현기⁷, 김종건⁸, 김종현⁸, 양장희⁸, 유인태⁸, 최영일⁸, Carsten Rott⁸, 김현수⁹(¹전남대학교, ²경북대학교, ³경상대학교, ⁴광주과학기술원, ⁵동신대학교, ⁶서영대학교, ⁷서울대학교, ⁸성균관대학교, ⁹세종대학교)

A14.03* [14:24 - 14:36]

Search for sterile neutrinos at RENO /

여인성¹, 김바로¹, 김승찬¹, 김재률¹, 문동호¹, 박령균¹, 신창동¹, 임인택¹, 주경광¹, 권은향², 김상용², 김수봉², 서선희², 서현관², 양정열², 이동하², 이용창², 이현기², 김종건⁸, 김종현⁸, 양장희⁸, 유인태⁸, 최영일⁸, Carsten Rott⁸, 김현수⁹, 장한일⁷, 박명렬⁵, 최준호⁵, 장지승⁵, 박인곤⁴, 김우영³, 박성우³, 양낙영⁸(¹전남대학교 물리학과, ²서울대학교 물리학과, ³경북대학교 물리학과, ⁴경상대학교 물리학과, ⁵광주과학기술원, ⁶동신대학교 물리학과, ⁷서영대학교 물리학과, ⁸성균관대학교 물리학과, ⁹세종대학교 물리학과)

A14.04 [14:36 - 14:48]

Precise measurement of reactor neutrino flux and spectrum at

RENO / 서현관¹, 권은향¹, 김상용¹, 김수봉¹, 서선희¹, 양정열¹, 이동하¹, 이용창¹, 이현기¹, 김우영², 박성우², 박인곤³, 장지승⁴, 박명렬⁵, 최준호⁵, 장한일⁶, 김종건⁷, 김종현⁷, 양장희⁷, 유인태⁷, 최영일⁷, Carsten Rott⁷, 김현수⁸, 김바로⁹, 김승찬⁹, 김재률⁹, 문동호⁹, 박령균⁹, 신창동⁹, 여인성⁹, 임인택⁹, 주경광⁹ (¹서울대학교 물리학과, ²경북대학교 물리학과, ³경상대학교 물리학과, ⁴광주과학기술원 물리학과, ⁵동신대학교, ⁶서영대학교, ⁷성균관대학교 물리학과, ⁸세종대학교 물리학과, ⁹전남대학교 물리학과)

A14.05 [14:48 - 15:00]

Search for a sterile neutrino at short baseline /

OH Yoomin^{*1}, KIM Baro², HAN Boyoung³, JEON Eun-ju¹, SUN Gwang-Min³, KIM Hongjoo⁴, PARK Hyangkyu¹, PARK Hyeonseol¹, KIM Hyunsoo⁵, LEE Jaison¹, KIM Jinyu⁶, LEE Jooyoung⁴, PARK Kang-soon¹, JOO Kyungkwang², SEO Kyungmin⁶, LEE Moo-hyun¹, SIYEON Kim⁷, KIM Yeongduk^{1, 6}, KO Youngju⁷(¹Center for Underground Physics, Institute for Basic Science, ²Department of Physics, Chonnam National University, ³Neutron Science Division, Korea Atomic Energy Research Institute, ⁴Department of Physics, Kyungpook National University, ⁵Korea Research Institute of Standards and Science, ⁶Physics Department, Sejong University, ⁷Department of Physics, Chung-Ang University)

A14.06 [15:00 - 15:12]

Axion dark matter search with toroidal resonant cavities. /

CHOI J.^{*1}, KO B.R.^{*1}, THEMANN H.¹, JANG W.¹, KIM D.¹, LEE M.J.¹, LEE J.^{1, 2}, SEMERTZIDIS Y.K.^{1, 2}(¹Center for Axion and Precision Physics Research, Institute for Basic Science, ²Department of Physics, Korea Advanced Institute of Science and Technology)

A14.07 [15:12 - 15:24]

Noise in axion cavity experiments: Comparison of linear amplifiers and single-photon techniques / PETRAKOU Eleni* (Institute for Basic Science)

A14.08 [15:24 - 15:36]

Performance Profiling using Brachytherapy in Geant4 / 최원국, 조기현* (한국과학기술정보연구원)

A14.09 [15:36 - 15:48]

A status of an array of ultra low background HPGe detectors at the Yangyang underground laboratory (Y2L). / SALA Elena¹, KANG WoonGu¹, KIM Gwoon², PARK Suyeun², KIM Yeongduk^{*1}, HAHN Insik², LEONARD Douglas¹, LEE MooHyun^{*1} (¹Center for Underground Physics, IBS, ²Ewha Womans University)

[A15-nu] Nuclear Structure

2016. 10. 19 Wednesday 14:00 - 15:24

Room: #306

좌장 : 오 용 석 경북대학교

Chair: OH Yong-Seok (Kyungpook National Univ.)

A15.01* [14:00 - 14:12]

The Modified Deformed Woods-Saxon Potential for Neutron Rich and Light Nuclei / 김성현, 하은자*, 천명기* (송실대학교 물리학과)

A15.02 [14:12 - 14:24]

Finite nuclei in chiral QMC model / MIYATSU Tsuyoshi², KWON Youngshin^{*1}, KIM Kyungsik³, CHEOUN Myung-Ki¹ (¹Soongsil University, ²Tokyo University of Science, ³Korea Aerospace University)

A15.03 [14:24 - 14:36]

Effects of deformation and neutron-proton pairing correlations on the Gamow-Teller transition for light N=Z nuclei by a deformed QRPA / HA Eun Ja*, CHEOUN Myung-Ki (Department of Physics Soongsil University)

A15.04* [14:36 - 14:48]

KIDS nuclear energy density functional: 1st application in nuclei / GIL Hana¹, PAPA KONSTANTINO Panagiota², HYUN Chang Ho³, OH Yongseok^{*1} (¹Kyungpook National University, ²Institute for Basic Science, Rare Isotope Science Project, ³Daegu University)

A15,05* [14:48 - 15:00]

EURICA Experiments at RIKEN: Shape Transitions of Neutron-rich Zr-Mo Isotopes / HA Jeongsu^{*1}, SUMIKAMA Toshiyuki^{2,3}, CHOI Seonho¹, EURICA Collaboration²(¹Department of Physics and Astronomy, Seoul National University, Gwanak-ro 1, Seoul, Republic of Korea, ²RIKEN Nishina Center, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan, ³Department of Physics, Tohoku University, Aoba, Sendai, Miyagi 980-8578, Japan)

A15,06 [15:00 - 15:12]

Screening of Nucleon Electric Dipole Moments in Nuclei / INOUE Satoru^{*1}, GUDKOV Vladimir¹, SCHINDLER Matthias R.¹, SONG Young-Ho² (¹Department of Physics and Astronomy, University of South Carolina, ²Rare Isotope Science Project, Institute for Basic Science)

A15,07 [15:12 - 15:24]

Nuclear structures and β -decay schemes for the Sb, Te, and I nuclides beyond N=82 / MOON Byul¹, HONG Byungsik^{*1}, MOON Chang-Bum^{*2}(¹Department of Physics, Korea University, ²Department of Display Engineering, Hoseo University)

SESSION B

2016. October 19(Wed) 16:00–17:48

B

E [B1-st] Focus session: Nonequilibrium behaviors in soft matter

2016. 10. 19 Wednesday 16:00 – 18:12

Room: #201

좌장 : 박 혁 규 울산과학기술원

Chair: PAK Hyuk-Kyu (UNIST)

B1.01(초) [16:00 - 17:00]

The puzzle of self-assembly and the self-assembly of puzzles /
FRENKEL Daan* (Department of Chemistry, University of Cambridge)

B1.02(초) [17:00 - 17:36]

The Effective Temperature Concept Tested in an Active Colloid Mixture / GRANICK Steve*^{1, 2} (¹IBS Center for Soft and Living Matter, ²Department of Chemistry, UNIST)

B1.03(초) [17:36 - 18:12]

Proteins as non-equilibrium learning matter / TLUSTY Tsvi*^{1, 2} (¹IBS Center for Soft and Living Matter, ²Department of Physics, UNIST)

[B2-at] Atomic and Molecular Physics

2016. 10. 19 Wednesday 16:00 – 17:48

Room: #204

좌장 : 조 범 석 울산과학기술원

Chair: ZHAO Bum-Suk (UNIST)

B2.01* [16:00 - 16:12]

Preparation of a Cold Atomic Ensemble for Quantum Memory Experiment / PARK Kwang-Kyoon*, KIM Jin-Hun, KIM Yoon-Ho (Department of Physics Pohang University of Science and Technology)

B2.02* [16:12 - 16:24]

Intensity properties of a coherently pumped cavity-QED microlaser / KIM Junki¹, YANG Daeho¹, OH Seung-Hoon¹, SONG Younghoon¹, LEE Moonjoo², AN Kyungwon*¹ (¹Department of Physics & Astronomy, Seoul National University, Seoul 151-747, Korea, ²Institute for Experimental Physics, University of Innsbruck, A-6020 Innsbruck, Austria)

B2.03 [16:24 - 16:36]

Enhanced Optical Responses in Bilayer Lattice Systems of Dense Atomic Dipoles / YOO Sung Mi* (Department of Liberal Arts Hongik)

University)

B2.04 [16:36 - 16:48]

UHV glass chamber with mirrored windows to form a Fabry-Perot cavity / SEO Meungho, PARK Sooyoung*, YOON Seokchan*, CHO D.
(Department of Physics Korea University)

B2.05 [16:48 - 17:00]

Efficient ionization of tin atom assisted by N-type multiphoton Raman resonances / 박성종^{*1}, 윤진우², 홍성광¹, 황원주¹, 정재원¹, 강병휘¹, 이진호¹, 김용학¹, Ishiyama Hironobu¹(¹기초과학연구원 중이온가속기건설구축사업단, ²고등광기술연구소 초강력레이저연구실)

B2.06 [17:00 - 17:12]

Development of a light pulse-atom interferometer for inertial sensing / 이상경*, 김태현, 임신혁, 심규민(국방과학연구소)

B2.07 [17:12 - 17:24]

Quantum sine-Gordon dynamics on analogue curved spacetime in a weakly imperfect scalar Bose gas / VOLKOFF Tyler James* (Department of Physics Konkuk University)

B2.08 [17:24 - 17:36]

Population transfer between bound states via continuum states observed by attosecond lighthouse measurement / MUN Je Hoi¹, YUN Hyeok¹, IVANOV Igor¹, KIM KyungTaec^{*1, 2}(¹Center for Relativistic Laser Science, Institute for Basic Science, ²School of Photon Science and Technology, Gwangju Institute of Science and Technology)

B2.09 [17:36 - 17:48]

Gaussian wave packet dynamics with re-initialization in Gabor frame as a time-dependent Schroedinger equation solver / CHOI Nark Nyul^{*1}, LEE Min-Ho¹, BYUN Chang Woo¹, KIM Dae-Soung²(¹School of Liberal Arts and Teacher Training, Kumoh National Institute of Technology, ²Department of Mechanical Automation, Gyeonggi College of Science and Technology)

[B3-se] Focus session : Graphene/2D materials-based energy harvesting II

2016. 10. 19 Wednesday 16:00 – 17:36

Room: #208

좌장 : 강 석 주 (울산과학기술원)

Chair: KANG Seok-Ju (UNIST)

B3.01(초) [16:00 - 16:24]

Electrical and Thermoelectric Transport by Variable Range Hopping in Thin Black Phosphorus Devices / 최선재¹, 김범규¹, 이태호¹, 김윤호², 김주진³, 송종현⁴, 배명호^{*1}(¹한국표준과학연구원, ²한국화학연구원, ³전북대학교, ⁴충남대학교)

B3.02(초) [16:24 - 16:48]

Atomic scale defects for high performance of bulk thermoelectrics / KIM Sung Wng*(Department of Energy Science, Sungkyunkwan University, Suwon, Korea)

B3.03(초) [16:48 - 17:12]

Solution-Processed p-Type Doping for Graphene / LEE Tae-Woo*(Department of Materials Science and Engineering, Seoul National University)

B3.04(초) [17:12 - 17:36]

Graphene based nanogenerators for wearable electronics / AHN Jong-Hyun*(Yonsei University, Department of Electrical and Electronic Engineering)

[B4-ap] Focus session: Nano mechanical systems

2016. 10. 19 Wednesday 16:00 – 17:36

Room: #209

좌장 : 심 승 보 한국표준과학연구원

Chair: SHIM Seung-Bo (KRISS)

B4.01(초) [16:00 - 16:24]

Two is better than one: multi-mode optomechanics / LEE Donghun*(Department of Physics Korea University)

B4.02(초) [16:24 - 16:48]

Quantum measurements with nanomechanical oscillators / KIM Minjin^{1,2}, KIM Jihwan^{1,2}, SUH Junho^{*1}(¹Korea Research Institute of Standards and Science, ²Department of Chemistry, KAIST)

B4.03(초) [16:48 - 17:12]

Optomechanics in on-chip optical ultra-high-Q resonators and

its applications / LEE Hansuek*(Korea Advanced Institute of Science and Technology)

B4.04(초) [17:12 - 17:36]

[한국물리학회상 수상기념 강연] Electro-mechanical Properties of Micro- and Nano-structures for NEMS Application / KIM Hakseong*(Korea Research Institute of Standards and Science, Daejeon 34113, Korea)

[B5-ap] Acoustic metamaterials / Materials synthesis

2016. 10. 19 Wednesday 16:00 – 17:48

Room: #210

좌장 : 김 근 수 세종대학교

Chair: KIM Keun-Soo (Sejong Univ.)

B5.01 [16:00 - 16:12]

Negative Shear Modulus / BOK Eun, KIM Tae Woo, LEE Jun Gi, CHOI Hae Jin, PARK Jong Jin, LEE Sam Hyeon*(Institute of Physics and Applied Physics, Yonsei University)

B5.02 [16:12 - 16:24]

Continuously Tunable Effective Modulus using Double Helmholtz Resonators / HAN Choong Kyu, LEE Jun Gi, KIM Tae Woo, CHOI Hae Jin, PARK Jong Jin, BOK Eun, LEE Sam Hyeon*(Institute of Physics and Applied Physics Yonsei University)

B5.03 [16:24 - 16:36]

음향 루네버그 렌즈의 구현에 대한 연구 / 박춘만¹, 이상훈²(¹동아대학교 신소재 물리학과, ²서남대학교 보건의료공학과)

B5.04* [16:36 - 16:48]

Acoustic metasurface for impedance matching between two media / BOK Eun, HAN Choong Kyu, CHOI Haejin, PARK Jong Jin, LEE Sam Hyeon*(Institute of Physics and Applied Physics, Yonsei University)

B5.05* [16:48 - 17:00]

Simple synthesis of high quality In₂S₃ thin films on InAs substrates / 김세라, 심유민, 김진배, 성맹제*(중앙대학교 물리학과)

B5.06 [17:00 - 17:12]

Spectroscopic investigations of Ho³⁺-doped gadolinium calcium silica borate glasses for visible and infrared laser applications / KESAVULU C. R.¹, KIM Hongjoo^{*1}, LEE S.W.¹, KAEWKHAO J.², KAEWKHAO J.³, DEE Dam², DEE Dam⁴, KOTHAN S.⁵, KAEWJAENG S.⁵(¹Department of

Physics, Kyungpook National University, Daegu 702-701, Republic of Korea, ²CEGM, Nakhon Pathom Rajabhat University, Nakhon Pathom, 73000, Thailand, ³Faculty of Science and Technology, Nakhon Pathom Rajabhat University, Nakhon Pathom, 73000, Thailand, ⁴Faculty of Science and Technology, Muban Chombueng Rajabhat University, 70150, Thailand, ⁵Department of Radiologic Technology, Faculty of Associated Medical Sciences, Chiang Mai University,)

B5.07* [17:12 - 17:24]

Fabrication and luminescent properties of Sr_3SiO_5 phosphors for near-UV based WLEDs / KURUGUNDLA Gopi Krishna, BHARAT L. Krishna, YU Jae Su* (Department of Electronics and Radio Engineering, Kyung Hee University)

B5.08* [17:24 - 17:36]

Raman scattering studies of tin sulfide (SnS) and tin disulfide (SnS_2) films / KIM Jayeong¹, YOON Seokhyun^{*1}, JO William¹, KIM Juran¹, JEON Chan-Wook² (¹Department of Physics, Ewha Womans University, ²School of Chemical Engineering, Yeungnam University)

B5.09* [17:36 - 17:48]

Water intercalation under graphene : Electrowetting and Electrocapillary / 박준하, 박흥기, 최재우* (경희대학교 정보디스플레이학과)

[B6-co] Focus session: Physics of Electrons in Layered Iridates

2016. 10. 19 Wednesday 16:00 – 17:24

Room: #211

좌장 : 노 한 진 전남대학교

Chair: NOH Han-Jin (Chonnam National Univ).

B6.01(초) [16:00 - 16:36]

Switching d-wave gap via spin reorientation in electron doped $\text{Sr}_3\text{Ir}_2\text{O}_7$ / KIM Y. K.^{1,2}, BERTINSHAW J.³, GREARSSON H.³, PORRAS J.³, DIETL C.³, SUNG N. H.³, HOEPFNER M.³, YARESCO A.³, KIM Jungho⁴, KIM Jong-Woo⁴, KEIMER B.³, KIM B. J.^{*3} (¹Department of physics, KAIST, ²Advanced Light source, LBNL, ³MPI for solid state research, stuttgart, ⁴Advanced photon source, Argonne Lab.)

B6.02(초) [16:36 - 17:12]

Strain-tuned magnetic anisotropy in the bilayer iridate $\text{Sr}_3\text{Ir}_2\text{O}_7$ / KIM Choong Hyun* (IBS-CCES & Department of Physics and Astronomy, Seoul National University)

B6.03* [17:12 - 17:24]

Electronic structures of $[(\text{SrIrO}_3)_m, (\text{SrTiO}_3)]$ ($m = 1, 2$ and ∞) Superlattices : Optical spectroscopic and density functional

calculation studies / 김소연^{*1, 2}(¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 08826, Republic of, ²Department of Physics and Astronomy, Seoul National University (SNU), Seoul 08826, Republic of Korea)

[B7-co] Materials genome

2016. 10. 19 Wednesday 16:00 – 17:48

Room: #212

좌장 : 박 철 홍 부산대학교

Chair: PARK Chul-Hong (Pusan National Univ.)

B7.01* [16:00 - 16:12]

Computational characterization of novel sulfonamide inhibitors in complex with carbonic anhydrase IX / HONG THAM Phan Thi¹, ŽUVELA Petar^{*2}, 준 유², 명기 이¹(¹Department of Biomedical Engineering, Pukyong National University, Busan, Korea, ²Department of Chemical Engineering, Pukyong National University, Busan, Korea)

B7.02 [16:12 - 16:24]

A new two-dimensional silicon crystal / 채기성¹, 김덕영^{1, 2}, 손영우^{*1}(¹고등과학원, ²Center for High Pressure Science and Technology Advanced Research (HPSTAR))

B7.03 [16:24 - 16:36]

Generation of the neural network potential of elemental boron from machine learning / LEE In-Ho¹, HAN Woo Hyun², CHANG Kee Joo^{*2}(¹Korea Research Institute of Standards and Science, Daejeon 34113, Korea, ²Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon 34141, Korea)

B7.04(초) [16:36 - 17:12]

1234 Automated ab initio calculations for material innovation / 한승우^{*}(서울대학교 재료공학부)

B7.05(초) [17:12 - 17:48]

Discovery and property optimization of advanced materials using theoretical approaches / 최진호¹, 조준형³, 박철홍^{*2}(¹부산대학교 기계기술연구원, ²부산대학교 물리교육과, ³한양대학교 물리학과)

[E] [B8-co] Pioneer symposium : Operando Science with AP-XPS at Pohang Light Sources

2016. 10. 19 Wednesday 16:00 – 17:48

Room: # 213

좌장 : 김 기 정 포항가속기연구소

Chair: KIM Ki-Jeong (Pohang Accelerator Laboratory)

B8.01(초) [16:00 - 16:24]

New optical design for AP-XPS at PAL: Status and goal / BAIK Jaeyoon, KIM Ki-jeong* (Beamline research division Pohang accelerator laboratory)

B8.02(초) [16:24 - 16:48]

CO oxidation on Pt(110) with ambient pressure X-ray photoelectron spectroscopy / YU Youngseok¹, LIM Hojoon¹, KOH Yoobin¹, JEONG Beomgyun², KIM Geonhwa¹, KAZUSHIA Isegawa³, KOHEI Ueda³, KIM Daehyun³, CRUMLIN Ethan J⁴, MASE Kazuhiko⁵, KONDOH Hiroshi³, MUN Bongjin Simon*¹ (¹Department of Physics and Photon Science, GIST, Gwangju, Republic of Korea, ²Division of Material Science Research, Korea Basic Science Institute, Daejeon, Republic of Korea, ³Department of Chemistry, Keio Univ., 3-14-1 Hyuoshi Kohoko-ku, Yokohama, Kanagawa 223-8522, Japan, ⁴Advanced Light Source, Lawrence Berkeley National Laboratory, USA, ⁵Institute of Materials Structure Science, KEK Research Organization, Tsukuba, Japan)

B8.03(초) [16:48 - 17:12]

Hard X-ray Photoemission Spectroscopy Project at Pohang Light Source / KOO Tae-Yeong* (Pohang Accelerator Laboratory)

B8.04(초) [17:12 - 17:48]

In-situ study of oxidation states of platinum nanoparticles on a PEFC electrode by near ambient pressure hard X-ray photoelectron spectroscopy / TAKAGI Yasumasa* (Institute for Molecular Science)

[B9-se] Compound Semiconductors

2016. 10. 19 Wednesday 16:00 - 17:48

Room: #214

좌장 : 문 순 재 한양대학교

Chair: MOON Soon-Jae (Hanyang Univ.)

B9.01* [16:00 - 16:12]

Luminescence properties of InP/InGaP quantum structures grown by a migration-enhanced epitaxy / CHO Il-Wook¹, RYU Mee-Yi¹, SONG Jin Dong² (¹Kangwon National University, ²Korea Institute of Science and Technology)

B9.02* [16:12 - 16:24]

공간 분해 분석을 이용한 단일 질화갈륨 로드의 마그네슘 도핑 특성 연구 / 최성한¹, 송현규¹, 유양석¹, 김원호², 이은형², 노승원², 조용훈* (¹한국과학기술원 물리학과, ²LG이노텍 R&D센터 선행부품연구소)

B9.03* [16:24 - 16:36]

상온 단광자 광원을 위한 단일 CdSe/ZnSe 나노와이어의 광특성 분석
/ 이우진, 김광석*(부산대학교 광메카트로닉스공학과, 인지메카트로닉스공학과,
물리교육과)

B9.04* [16:36 - 16:48]

High voltage generation of NiO/GaN heterojunction piezoelectric generator by suppressed internal carrier screening / RYU Sang-Wan*, JEONG Dae Kyung, KANG Jin-Ho(Department of Physics, Chonnam National University)

B9.05* [16:48 - 17:00]

Improvement of device performance and stability of homojunction structured tungsten doped IZO thin film transistor
/ PARK Hyun-Woo, SONG Aeran, CHUNG Kwun-Bum*(Division of Physics and Semiconductor Science, Dongguk University)

B9.06* [17:00 - 17:12]

Synthesis and emission properties of BaLa₂WO₇ phosphors / HUSSAIN Shaik Khaja, YU Jae Su*(Department of Electronics and Radio Engineering, Kyung Hee University)

B9.07 [17:12 - 17:24]

GaN 기반 발광다이오드에서 내부전기장 및 전하밀도 감소에 따른 효율 저하 현상 억제 / 유양석¹, 나종호², 손성진², 조용훈¹(¹한국과학기술원 물리학과, ²LG 이노텍)

B9.08 [17:24 - 17:36]

Performance of Cr-doped ZnTe based intermediate band solar cells / Kyoung Su Lee, Gyujin Oh, Eun Kyu Kim*(Quantum-Function Research Lab. and Department of Physics, Hanyang University)

B9.09 [17:36 - 17:48]

Optical and Electrical Properties of Amorphous InGaZnO Thin Film Transistors by RF Magnetron Sputtering / 박상우, 박성재, 강지훈, 김은규*(한양대학교 물리학과)

[B10-co] Focus session: Nano/Mesoscopic system: Quantum Coherence in Condensed Matter

2016. 10. 19 Wednesday 16:00 – 17:48

Room: #301

좌장 : 심 흥 선 한국과학기술원

Chair: SIM Heung-Sun (KAIST)

B10.01(초) [16:00 - 16:36]

Studying Dielectric Properties by Graphene Field-Effect Transistor

/ SUH Dongseok* (Department of Energy Science, Sungkyunkwan University)

B10.02(초) [16:36 - 17:12]

Mesoscopic research with electronic interferometers / CHOI

Hyungkook* (Department of Physics, Chonbuk National University)

B10.03(초) [17:12 - 17:48]

Quantum dots coupled to impedance matching circuits / JUNG

Minkyung*^{1, 2} (¹Division of Nano-Energy, DGIST, Korea, ²Department of Physics, University of Basel, Switzerland)

[B11] No session

[B12] No session

[B13-pa] Field and string theory I

2016. 10. 19 Wednesday 16:00 – 17:48

Room: #304

좌장 : 박 정 혁 서강대학교

Chair: PARK Jeong-Hyuck (Sogang Univ.)

B13.01 [16:00 - 16:12]

Relative entropy from a charged particle / 김경규*¹, Feng-Li Lin², Bo

Ning³, Sheng-Lan Ko⁴ (¹연세대학교 물리학과, ²National Taiwan Normal University, ³Sichuan University, ⁴Naresuan University)

B13.02* [16:12 - 16:24]

De Sitter Entropy and Area Law with Topological Soliton / HYUN

Young-Hwan, KIM Yoonbai* (Sungkyunkwan University)

B13.03 [16:24 - 16:36]

Area law of black hole entropy with topological hair / HYUN

Young-Hwan*, KIM Yoonbai (Sungkyunkwan University)

B13,04 [16:36 - 16:48]

Exact Holography of the Mass-deformed M2-brane Theory / JANG Dongmin¹, KIM Yoonbai¹, KWON O-Kab^{*1}, TOLLA Driba D.^{1, 2}(¹Department of Physics, BK21 Physics Research Division, Institute of Basic Science, Sungkyunkwan Univ, ²University College, Sungkyunkwan University)

B13,05 [16:48 - 17:00]

Exact Holography of the Mass-deformed M2-brane Theory for Finite N / JANG Dongmin¹, KIM Yoonbai¹, KWON O-Kab^{*1}, TOLLA Driba D.²(¹Department of Physics, Sungkyunkwan University, ²University College, Sungkyunkwan University)

B13,06 [17:00 - 17:12]

Holography of Free Adjoint Models / JOUNG Euihun^{*}(Seoul National University)

B13,07 [17:12 - 17:24]

Perturbative study of the holographic entanglement entropy in external electric field / KIM Kyung Kiu^{*1}, LEE Jung Hun²(¹Department of Physics Yonsei University, ²Asia Pacific Center of Theoretical Physics (APCTP))

B13,08* [17:24 - 17:36]

Analysis of optical conductivity for strongly correlated system with magnetization from holography / 송근호¹, 서윤석¹, 김근영², 신상진¹(¹한양대학교 물리학과, ²광주과학기술원 물리학과)

B13,09 [17:36 - 17:48]

Negative magnetoresistance in strongly interacting ferromagnetic material from holography / 서윤석^{*1}, 신상진¹, 송근호¹, 박찬용²(¹한양대학교, ²아시아태평양이론물리센터)

[E] [B14-pa] Non-accelerator based particle physics experiments II

2016. 10. 19 Wednesday 16:00 – 17:48

Room: #305

좌장 : 이 현 수 기초과학연구원

Chair: LEE Hyun-Su (IBS)

B14,01 [16:00 - 16:12]

The COSINE detector / HA Chang Hyon^{*}(Center for Underground Physics, IBS)

B14,02* [16:12 - 16:24]

Dry run data of the COSINE experiment / ADHIKARI Pushparaj^{*}(Department of Physics, Sejong University)

B14.03* [16:24 - 16:36]

A study on muon selection criteria in the COSINE dark matter Experiment / PRIHTIADI Hafizh* (Department of Physics, Bandung Institute of Technology)

B14.04 [16:36 - 16:48]

A DAQ and trigger system for the COSINE experiment / PARK Jungsic* (Institute for Basic Science)

B14.05 [16:48 - 17:00]

Pulse discrimination power (PSD) measurement of NaI(Tl) crystal.
/ 주한울^{*1}, 박현서^{*2}(¹서울대학교 물리학과, ²한국표준과학연구원)

B14.06 [17:00 - 17:12]

AMoRE-Pilot status and analysis / JO Hyon-Suk* (Center for Underground Physics, Institute for Basic Science)

B14.07* [17:12 - 17:24]

Status of the AMoRE Background Simulation / 하대훈¹, 김홍주^{*1}, On behalf of AMoRE Collaboration²(¹경북대학교 물리학과, ²AMoRE)

B14.08 [17:24 - 17:36]

CaMoO₄ crystal study of radioactive contamination in new setup for the AMoRE-I experiment / 이주영, 김홍주* (경북대학교 물리학과)

B14.09 [17:36 - 17:48]

Status of the AMoRE DAQ system / YOON Young Soo^{*1, 2}(¹Center for Underground Physics, Institute for Basic Science, ²on behalf of the AMoRE Collaboration)

[B15-nu] Nuclear Reaction

2016. 10. 19 Wednesday 16:00 – 17:36

Room: # 306

좌장 : 천 명 기 송실대학교

Chair: CHEOUN Myung-Ki (Soongsil Univ.)

B15.01 [16:00 - 16:12]

Neutron Removal from Deformed Projectiles / HONG Juhee^{*1}, BERTULANI Carlos², KRUPPA Andras³(¹RISP/IBS, ²TAMU-Commerce, ³Institute for Nuclear Research)

B15.02 [16:12 - 16:24]

Elastic α -¹²C scattering at low energies in cluster effective field theory / ANDO Shung-Ichi* (Sunmoon University)

B15.03* [16:24 - 16:36]

New heavy-ion transport code: Daejeon Boltzmann-Uehling-Uhlenbeck (DJBUU) Comparison of DJBUU and RBUU under controlled condition. / 김명국¹, 김영민^{1, 2}, 이창환¹, 김영만³, 김경일³, 홍주희³, 전상용⁴(¹부산대학교 물리학과, ²서울대학교 물리천문학부 천문전공, ³기초과학연구원 중이온가속기구축사업단, ⁴맥길대학교 물리학과)

B15.04* [16:36 - 16:48]

Thermal neutron cross-section and resonance integral of the $^{185}\text{Re}(n,g)^{186}\text{Re}$ and $^{187}\text{Re}(n,g)^{188}\text{Re}$ reactions / NGUYEN Hien Thi¹, KIM Guinyun^{*1}, RAHMAN Md. Shakilur¹, NADEEM Muhammad¹, NGUYEN Do Van², PHAM Khue Duc², KIM Thanh Tien², SHIN Sung-Gyun³, CHO Moo-Hyun³, KIM Kwangsoo¹(¹Department of Physics, Kyungpook National University, ²Institute of Physics, Vietnam Academy of Science and Technology, 10 Dao Tan, Hanoi, Vietnam, ³Division of Advanced Nuclear Engineering, Pohang University of Science and Technology)

B15.05* [16:48 - 17:00]

Measurement of activation cross-sections for neutron induced reactions in ^{nat}Er / NADEEM Muhammad, KIM Kwangsoo, KIM Guinyun^{*}, RAHMAN Md. Shakilur, NGUYEN Hien Thi(Department of Physics, Kyungpook National University)

B15.06 [17:00 - 17:12]

Calculation of total fusion cross section for $^{11}\text{Li}+^{208}\text{Pb}$ system / 최기석¹, 천명기¹, 소운영², 김경식³(¹숭실대학교 물리학과, ²강원대학교 방사선학과, ³항공대학교 교양학과)

B15.07 [17:12 - 17:24]

Possibilities of production of neutron-rich Md isotopes in multi-nucleon transfer reactions / MUN Myeong-Hwan^{*1}, LEE Young-Ouk¹, ADAMIAN G.G.², ANTONENKO N.V.²(¹Korea Atomic Energy Research Institute, ²Joint Institute for Nuclear Research)

B15.08 [17:24 - 17:36]

Photo-production cross-sections and yields of $^{100}\text{Mo}(g,n)^{99}\text{Mo} \rightarrow ^{99m}\text{Tc}$ and $^{59}\text{Co}(g,xn)^{58-55}\text{Co}$ with bremsstrahlung energy 55-65 MeV / RAHMAN Md. Shakilur¹, NADEEM Muhammad¹, NGUYEN Hien Thi¹, YANG Sung-Chul², LEE Young-Ouk², SHIN Sung-Gyun³, CHO Moo-Hyun³, LEE Man Woo⁴, KANG Yeong-Rok⁴, YANG Gwang-Woo⁴, KIM Kwangsoo¹, KIM Guinyun^{*1}(¹Department of Physics, Kyungpook National University, ²Nuclear Data Center, Korea Atomic Energy Research Institute, ³Division of Advanced Nuclear Engineering, Pohang University of Science and Technology, ⁴Dongnam Institute of Radiological and Medical Science)

SESSION C

2016 October 20(Thu) 09:00-10:48

[C1-st] Phase Transitions

2016. 10. 20 Thursday 09:00 - 10:36

Room: #201

좌장 : 이 덕 선 인하대학교

Chair: LEE Deok-Sun (Inha Univ.)

C1.01(초) [09:00 - 09:24]

Uncertainty and finite-size effect in the partition function zero of a Wang-Landau-sampled density of states / KIM Dong-Hee*

(Department of Physics and Photon Science GIST)

C1.02* [09:24 - 09:36]

행렬곱상태를 이용한 양자 XXZ모형의 상전이 연구 / 이지우*, 최환빈
(명지대학교 물리학과)

C1.03* [09:36 - 09:48]

Critical behavior of k-core percolation / 이덕재, 조민재, 강병남*

(서울대학교 물리학과)

C1.04 [09:48 - 10:00]

Universal mechanism for hybrid percolation transitions / 이덕재,

최원준¹, Janos Kertész², 강병남^{*1}(¹서울대학교 물리천문학부, ²Center for Network Science, Central European University, Budapest, Hungary)

C1.05 [10:00 - 10:12]

Hybrid phase transition in a two-step contagion model with multiple infectious seeds / CHOI Wonjun, LEE Deokjae, KAHNG

Byungnam*(Department of Physics and Astronomy Seoul National University)

C1.06 [10:12 - 10:24]

Percolation transitions and their universality classes in multiplex lattices / 최지혜¹, 고광일^{*1, 2}

(¹고려대학교 물리학과, ²Department of Physics, U.C. San Diego, La Jolla, CA 92093, USA)

C1.07* [10:24 - 10:36]

Fractal dimension in a hybrid percolation transition / CHOI K. J.¹,

THIELE J. C.², LEE Deokjae¹, CHO Y. S.¹, HERRMANN H. J.², KAHNG B.^{*1}(¹CCSS, CTP and Department of Physics and Astronomy, Seoul National University,

²Computational Physics for Engineering Materials, Institute for Building Materials)

[C2-op] Optical devices and characterization

2016. 10. 20 Thursday 09:00 – 10:36

Room: # 204

좌장 : 박 두 재 한림대학교
Chair: PARK Doo-Jae (Hallym Univ.)

C2.01(초) [09:00 - 09:24]

Ultrafast excited-state dynamics of low-bandgap polymers and polymer:fullerene bulk heterojunctions / 김인식¹, 김동유², 고도경^{*1, 3}
(¹광주과학기술원 물리·광학과, ²광주과학기술원 신소재공학과, ³광주과학기술원 고등광기술연구소)

C2.02* [09:24 - 09:36]

Optical trap dielectric particles by Bessel beam generators in water based DNA solution / PARK Junbum, OH Kyunghwan* (Department of physics Yonsei University)

C2.03* [09:36 - 09:48]

Characteristics of surface waves between general bi-isotropic media / KIM Seulong, KIM Kihong* (Department of Energy Systems Research, Ajou University)

C2.04* [09:48 - 10:00]

Mega-dielectric material based on mesoscopic space-filling curves / CHANG Taeyong¹, KIM Jong Uk¹, KANG Seung Kyu¹, KIM Hyowook¹, KIM Do Kyung¹, LEE Yong-Hee², SHIN Jonghwa^{*1} (¹Department of Materials Science and Engineering, KAIST, Daejeon 34141, Republic of Korea, ²Department of Physics, KAIST, Daejeon 34141, Republic of Korea)

C2.05* [10:00 - 10:12]

Design and fabrication of a W-band quasi-optical mode generator / SAWANT Ashwini¹, CHOE Mun Seok², CHOI EunMi^{*2} (¹Department of Electrical Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, ²Department of Physics, Ulsan National Institute of Science and Technology (U))

C2.06* [10:12 - 10:24]

Selectively tunable anisotropic Optical Stark effect of excitons in ReS₂ / SIM Sangwan¹, LEE Doeon¹, NOH Minji¹, CHA Soonyoung¹, SOH Chan Ho¹, SUNG Ji Ho^{2, 3}, JO Moon-Ho^{2, 3, 4}, CHOI Hyunyong^{*1} (¹School of Electrical and Electronic Engineering, Yonsei University, Seoul, Korea, ²Institute for Basic Science (IBS), Pohang University of Science and Technology, ³Division of Advanced Materials Science, Pohang University of Science and Technology, ⁴Department of Materials Science and Engineering, Pohang University of Science and Technology)

C2.07* [10:24 - 10:36]

Berry phase analysis of Polarization Independent Spatial Light Modulators based on commercial LCDs / 최민호, 최재우* (경희대학교 정보디스플레이학과)

[C3-se] Focus session : Energy storage devices and applications

2016. 10. 20 Thursday 09:00 - 11:00

Room: # 208

좌장 : 안 종 현 연세대학교

Chair: AHN Jong-Hyun (Yonsei Univ.)

C3.01(초) [09:00 - 09:24]

Synthesis and electrochemical properties of transition metal based nanostructures on conductive textile substrates for supercapacitor applications / 유재수*, Goli Nagaraju, 차성민 (경희대학교 전자전파공학)

C3.02(초) [09:24 - 09:48]

Advanced energy storage system : lithium ion capacitors / PARK Min-Sik* (Department of Advanced Materials Engineering, Kyung Hee University)

C3.03(초) [09:48 - 10:12]

Nanostructured Metal Oxide Electrodes for Rechargeable Metal-Air Batteries / LEE Jong-Won* (New and Renewable Energy Research Division, Korea Institute of Energy Research)

C3.04(초) [10:12 - 10:36]

All solid state battery using $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$ as solid electrolyte / CHO Woosuk^{*1}, PARK Je-Sik^{1, 2} (¹Advanced Batteries Research Center, Korea electronics Technology Institute, ²Department of Advanced Materials Science and Engineering, Kumoh National Institute of Technology)

C3.05(초) [10:36 - 11:00]

Epitaxial oxide films for energy applications / 이신범* (대구경북과학기술원 신물질과학전공)

[C4-ap] Focus session: Organic Materials and Devices I

2016. 10. 20 Thursday 09:00 - 10:48

Room: # 209

좌장 : 임 은 주 단국대학교

Chair: LIM Eun-Ju (Dankook Univ.)

C4.01(초) [09:00 - 09:24]

[한국물리학회상 수상기념 강연] Functional high-yield molecular electronic devices / 이택희* (서울대학교 물리천문학부)

C4.02(초) [09:24 - 09:48]

Polymeric surface modification for efficient single-junction and tandem organic solar cells / SHIM Jae Won*(Department of Electronics and Electrical Engineering Dongguk University)

C4.03* [09:48 - 10:00]

Solution-processed vanadium oxide hole injection layer to improve quantum-dot light emitting diodes / 이상무¹, 신동근², 이연진², 조남광³, 강성준^{*1} (¹경희대학교 정보전자신소재공학과, ²연세대학교 물리학과, ³서울대학교 나노융합학과)

C4.04* [10:00 - 10:12]

Noise characteristics of organic nanocomposite resistive memory devices / SONG Younggul¹, JANG Jingon¹, YOO Daekyoung¹, KIM Youngrok¹, LEE Woocheol¹, JEONG Heejun², LEE Takhee^{*1}(¹Department of Physics and Astronomy Seoul National University, ²Department of Applied Physics Hanyang University)

C4.05* [10:12 - 10:24]

Investigation of a new approach for high-yield molecular tunneling junctions with direct metal transfer method / JEONG Hyunhak, KIM Dongku, HWANG Wang-Taek, JANG Yeonsik, KIM Jun-Woo, KOO Jeongmin, LEE Takhee*(Department of Physics and Astronomy, Seoul National University)

C4.06* [10:24 - 10:36]

Hole Transport Enhancement Mechanism of CuSCN in Organic Devices / 김민주¹, 박수형¹, 정준경¹, 신동근¹, 김지민², 류세희², 김근수², 이현복^{*3}, 이연진^{*1}(¹연세대학교 물리학과, ²포항공과대학교 물리학과, ³강원대학교 물리학과)

C4.07 [10:36 - 10:48]

Control the hysteresis of ferroelectric properties of PVDF-TrFE depending on the photoactive crosslinker and its application from non-volatile memory to logic device / 장석재, 배수강, 이상현, 김태욱*(한국과학기술연구원 양자응용복합소재연구센터)

[C5-ap] Focus session: Thermoelectrics I

2016. 10. 20 Thursday 09:00 – 10:36

Room: # 210

좌장 : 배 명 호 한국표준과학연구원

Chair: BAE Myung-Ho (KRISS)

C5.01(초) [09:00 - 09:24]

Possibility of topological bulk composites and thermoelectricity /

RHYEE Jong-Soo* (Department of Applied Physics, Kyung Hee University)

C5.02(초) [09:24 - 09:48]

Control of surface morphology of stacking faulted silicon nanowires and their coherent phonon transport characteristics /

LEE Sang-Kwon*, PARK No-Won, LEE Won-Yong, KIM Gil-Sung (Department of Physics, Chung-Ang University, Seoul 06974, Republic of Korea)

C5.03(초) [09:48 - 10:12]

Computational design of high-performance thermoelectric materials /

LEE Joo-Hyoung* (School of Materials Science and Engineering, GIST)

C5.04(초) [10:12 - 10:36]

The achievement of high ZT in n-type SnSe single crystal /

DUONG Anh Tuan¹, NGUYEN Van Quang¹, DUVJIR Ganbat¹, DUONG Van Thiet¹, KIM Jungdae¹, CHO Sunglae^{*1}, KWON Suyong², SONG Jae Yong², LEE Jae Ki³, LEE Ji Eun³, PARK Su-Dong³, MIN Taewon⁴, LEE Jaekwang⁴ (¹Department of Physics and Energy Harvest-Storage Research Center, University of Ulsan, ²Division of Industrial Metrology, Korea Research Institute of Standards and Science (KRISS), ³Thermoelectric Conversion Research Center, Creative and Fundamental Research Division, KERI, ⁴Department of Physics, Pusan National University)

E [C6-co] Pioneer: 30th anniversary for the discovery of high temperature superconductivity : status of the research

2016. 10. 20 Thursday 09:00 – 10:48

Room: # 211

좌장 : 김 창 영 서울대학교

Chair : KIM Chang-Young (Seoul National Univ.)

C6.01(초) [09:00 - 09:36]

What we have learned from the study on copper-oxide high-temperature superconductors? /

EISAKI Hiroshi* (Electronics and Photonics Research Institute National Institute of Advanced Industrial Science and)

C6.02(초) [09:36 - 10:12]

Density Waves of HTSC in Atomic Scale / LEE Jinho* (Dept. of Physics and Astronomy, Seoul National University)

C6.03(초) [10:12 - 10:48]

Enhanced superconductivity in surface-electron-doped iron pnictide.
/ KIM Y. K.*^{1,2}, KYUNG W. S.^{3,4}, HUH S. S.^{3,4}, KOH Y. Y.⁵, CHOI K.-Y.^{3,4}, NAKAJIMA M.⁶, EISAKI H.⁷, DENLINGER J. D.², MO S.-K.*², KIM C.*^{3,4} (¹Department of Physics, KAIST, ²Advanced Light source, LBNL, ³Center for Correlated Electron Systems, IBS, ⁴Department of Physics and Astronomy, SNU, ⁵Pohang Accelerator Laboratory, ⁶Department of Physics, Osaka Univ., ⁷National Institute of Advanced Industrial Science and Technology)

[C7-co] Strongly Correlated Systems I

2016. 10. 20 Thursday 09:00 - 10:36

Room: # 212

좌장 : 송 종 현 충남대학교

Chair: SONG Jong-Hyun (Chungnam National Univ.)

C7.01 [09:00 - 09:12]

Electronic Structure of PdTe₂ investigated by Angle-Resolved Photoemission Spectroscopy / NOH Han-Jin*¹, CHEONG Jinwon¹, CHO En-Jin¹, KIM Kyoo², MIN B. I.², PARK Byeong-Gyu³ (¹Department of Physics, Chonnam National University, ²Department of Physics, Pohang University of Science & Technology, ³Pohang Accelerator Laboratory, POSTECH)

C7.02 [09:12 - 09:24]

Ultrafast Polaron Dynamics in Layered and Perovskite Manganites: 2D and 3D Polarons / LEE Jinho*¹, LEE Hae Ja², TRUGMAN S. A.³, TAYLOR A. J.³, PRASANKUMAR R. P.³, YAROTSKI D. A.³ (¹Department of Physics Education, Gyeongsang National University, ²Matter in Extreme Conditions(MEC), Stanford Linear Accelerator Center, ³Center for integrated nanotechnologies (CINT), Los Alamos National Laboratory)

C7.03 [09:24 - 09:36]

Giant exchange bias effect in YCo_{0.25}Mn_{0.75}O₃ / S.H. Oh, M.K. Kim, J.Y. Moon, Y. J. Choi*, N. Lee* (Yonsei University)

C7.04* [09:36 - 09:48]

Film thickness variation mediated strain-state crossover in epitaxial VO₂ films / LEE Dooyong^{1,2}, KIM Hyegyeng¹, KIM Ji Woong¹, KIM Yooseok², YUN Hyung-Joong², WON Jonghan², LEE Jouhahn², PARK Sungkyun*¹ (¹Department of Physics, Pusan National University, Busan 46241, Korea, ²Advanced Nano Surface Research Group, Korea Basic Science Institute, Daejeon 34133, Korea)

C7.05* [09:48 - 10:00]

Calculating branching ratio and spin-orbit coupling from first-principles: A formalism and its application to iridates / SIM Jae-Hoon, YOON Hongkee, PARK Sang Hyeon, HAN Myung Joon* (Department of Physics, KAIST)

C7.06* [10:00 - 10:12]

Scanning tunneling microscopy / spectroscopy study on excitonic insulating phase in Ta_2NiSe_5 single crystals / 이진원^{1, 2}, 강창중¹, 엄만진¹, 김준성^{1, 2}, 민병일¹, 염한웅^{*1, 2} (POSTECH 물리학과, ²기초과학연구원 원자제어저차원전자계연구단)

C7.07* [10:12 - 10:24]

Critical behavior in quasi-one-dimensional organic conductors as investigated by a cubic anvil cell up to 8.5 GPa / 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)

C7.08* [10:24 - 10:36]

Temperature and Doping Evolutions of the Electronic Response of $\text{Sr}_3(\text{Ir}_{1-x}\text{Ru}_x)_2\text{O}_7$ / SONG Seungjae¹, AHN G. H.¹, SEO J. H.¹, HOGAN T.^{2, 3}, WILSON S. D.³, MOON S. J.^{*1} (¹Department of Physics, Hanyang University, Seoul 04763, Korea, ²Department of Physics, Boston College, Chestnut Hill, Massachusetts 02367, USA, ³Department of Materials, University of California, Santa Barbara, California 93106, USA)

[C8-co] Bio/Organic/Instruments II

2016. 10. 20 Thursday 09:00 – 10:48

Room: # 213

좌장 : 배 상 수 한양대학교

Chair: BAE Sang-Su (Hanyang Univ.)

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

Single-cell single-molecule co-IP applied to EGFR signaling assay / RYU JiYoung¹, KIM Jihye², SHON Minju², KIM Kipom³, LEE Wonhee^{*2}, YOON TaeYoung^{*1} (¹Y-IBS, Yonsei University, Seoul, ²Korea Advanced Institute of Science and Technology, ³Korea Brain Research Institute)

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

Part by part folding of DNA origami by single-molecule force annealing using magnetic tweezer / CHOI Hyunkyu^{1, 2}, BAE Wooli³, RYU Jekyung⁴, YOON Tae-young^{*2} (¹Department of physics, KAIST, ²Y-IBS (Yonsei-Institute for Basic Science), Yonsei university, ³Department of physics, Ludwig-Maximilians-Universität München (LMU), ⁴Department of bionanoscience, Delft University of Technology)

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

Enhanced diffusivity of motor protein in nonequilibrium steady state / HWANG Wonseok, HYEON Changbong* (Korea Institute for Advanced Study)

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

Understanding PI3K in Cancer at the Single-Molecule Level / SHON Min Ju¹, CHOI Byungsan¹, CHA MinKwon¹, PARK Sangwoo¹, YOON Tae-Young^{*2} (¹Center for Single-Molecule Systems Biology, KAIST, ²IBS Center for Nanomedicine, Yonsei University)

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

Structures and Physical Properties of Ionic Liquid Mixtures / CHA Seoncheol, KIM Doseok* (Department of Physics, Sogang University)

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

Multi-Color Single Particle Tracking of Membrane Protein in Living Cell Using DNA-PAINT / 안형전¹, 김동균², 박상현¹, 이남기^{*1, 2} (포항공과대학교 물리학과, ²포항공과대학교 시스템생명공학부)

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

Force spectroscopy of single SUVs / KIM Jichul¹, YOON Tae-Young^{*2, 3} (¹Natural Science Research Institute, KAIST, ²Department of Physics, KAIST, ³Y-IBS Institute, Yonsei University)

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

Effect of counterions on interfacial dipoles in NPEs / KANG JuHwan¹, CHA MyoungJoo¹, PARK YuJung¹, SEO JungHwa^{*1}, WALKER Bright² (¹Department of Physics, Dong-A University, ²Interdisciplinary School of Green Energy, Ulsan National Institute of Science and Technology)

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

Functional HER2 dimer pull down enables direct observation of the early stage of cellular signaling and gives more reduced information for drug efficacy / CHOI Byungsan^{1, 2}, CHA Minkwon^{1, 2}, PARK Sangwoo¹, CHO Harim^{2, 3}, YOON Tae-young^{*2} (¹Department of Physics, KAIST, ²IBS Center for NanoMedicine, ³Seoul National University College Of Medicine)

**[C9-co] Focus session: Nano/Mesoscopic system:
Quantum Coherence in Condensed Matter**

2016. 10. 20 Thursday 09:00 – 10:12

Room: # 214

좌장 : 강 기 천 전남대학교

Chair: KANG Ki-Cheon (Chonnam National Univ.)

C9.01* [09:00 - 09:12]

Back-gated MoS₂ photodetector with enlarged response by zinc oxide quantum dots / NAZIR Ghazanfar, KHAN Muhammad Farooq, EOM Jonghwa* (Department of Physics & Astronomy Sejong University)

C9.02* [09:12 - 09:24]

Layer dependent and photon-assisted tunneling effect in vertical Au/WS₂/Au devices / KHAN Muhammad Farooq^{1,2}, JUNG Suyong², EOM Jonghwa* (¹Department of Physics & Astronomy Sejong University, ²Korea Research Institute of Standards and Science)

C9.03* [09:24 - 09:36]

Effect of remote interfacial phonon on the resistivity of graphene / YOU YoungGyu, KIM SungWon, UHM TaeWoo, PARK BaeHo, JHANG SungHo* (Department of Physics Konkuk University)

C9.04* [09:36 - 09:48]

Low Frequency Raman Peaks of Scrolled Graphene / UHM Taewoo¹, PARK Gyuwhi¹, LEE Jae-Ung², CHEONG Hyeonsik², LEE Sang Wook³, JHANG Sung Ho* (¹Department of Physics Konkuk University, ²Department of Physics Sogang University, ³Department of Physics Ehwa Womans University)

C9.05* [09:48 - 10:00]

Gigahertz Generation and Detection of a Single-Electron Gaussian Wave Packet / 류성근¹, Masaya Kataoka², 심흥선* (¹한국과학기술원 물리학과, ²National Physical Laboratory, United Kingdom)

C9.06* [10:00 - 10:12]

Noise at quantum point contacts between fractional quantum hall edge states / LEE Byeongmok, HAN Cheolhee, SIM Heung-Sun* (Department of Physics KAIST)

[C10-or] KPS Journals

2016. 10. 20 Thursday 09:00 – 11:00

Room: # 301

좌장 : 박 성 균 부산대학교

Chair: PARK Sung-Kyun (Pusan National Univ.)

C10.01(초) [09:00 - 09:24]

Scopus 등재로 바라본 새물리 현황 및 발전 전략 / 최현우* (인포랑)

C10.02(초) [09:24 - 09:48]

JKPS & Springer Nature / KANG Annie* (Springer Nature)

C10.03(초) [09:48 - 10:12]

Ethics in Publishing: Authors, Reviewer and Editors / SPICER Tom*
(Springer Nature)

C10.04(초) [10:12 - 10:36]

The role of journal editors to make better Journal / CHAHIN Marc N¹, PARK Sungkyun*²(¹Elsevier, ²Pusan National University)

C10.05(초) [10:36 - 11:00]

Improving South Korea's position in the worldwide Physics Community by capturing high impact content / CHAHIN Marc N¹, PARK Sungkyun*²(¹Elsevier, ²Pusan National University)

[C11] No session

[C12] No session

[C13] No session

E [C14-pa] Pioneer: Hyper-Kamiokande and T2HK experiment

2016. 10. 20 Thursday 09:00 – 10:48

Room: # 305

좌장 : 카르스텐로트 성균관대학교

Chair: Carsten Rott (Sungkyunkwan Univ.)

C14.01(초) [09:00 - 09:36]

Overview of Hyper-Kamiokande / SHIOZAWA Masato* (ICRR/U of Tokyo)

C14.02(초) [09:36 - 10:12]

J-PARC neutrino beam / KOBAYASHI Takashi* (IPNS/KEK)

C14.03(초) [10:12 - 10:48]

Hyper-Kamiokande & near detectors and physics potentials / YOKOYAMA Masashi* (U of Tokyo)

[C15-nu] Relativistic Heavy Ion Collisions I

2016. 10. 20 Thursday 09:00 – 10:24

Room: # 306

좌장 : 문 동 호 전남대학교

Chair: MOON Dong-Ho (Chonnam National Univ.)

C15.01* [09:00 - 09:12]

Two-particle correlation via Bremsstrahlung / 조소연, 윤진희* (인하대학교)

C15.02* [09:12 - 09:24]

J/ψ production in pp and pPb collisions from CMS / LEE Songkyo, HONG Byungsik*(Department of Physics, Korea University)

C15.03* [09:24 - 09:36]

B plus nuclear modification factor in PbPb at 5.02 TeV with CMS / LEE Kisoo, HONG Byungsik*(Korea University)

C15.04* [09:36 - 09:48]

Chip characterisation test for pALPIDE-3 & HIC assembly at ALICE / 박종한*, 권민정*(인하대학교 물리학과)

C15.05* [09:48 - 10:00]

Measurement of bottomonia states in pp and PbPb collisions. / PARK JaeBeom, HONG Byungsik*(Korea University)

C15.06* [10:00 - 10:12]

Isolated photon-Jet Correlations in pp and PbPb collisions at 5.02 TeV with CMS / GO Yeonju, HONG Byungsik*(Department of Physics, Korea University)

C15.07* [10:12 - 10:24]

Characterization of ALICE Pixel Detector using accelerator beams in Korea and Mass Chip Test Project in Pusan for ALICE-ITS upgrade / Bong-Hwi Lim^{*1, 2}, JongSik Eum^{1, 2}, In-Kwon Yoo^{*1, 2}(¹Pusan National University, ²ALICE Collaboration)

SESSION D

2016 October 20(Thu) 11:00–12:48

[D1-st] Biophysics I

2016, 10, 20 Thursday 11:00 – 12:36

Room: # 201

좌장: 이 남 경 세종대학교

Chair: LEE Nam Kyung (Sejong Univ.)

D1,01(초) [11:00 - 11:24]

Quantifying the heat dissipation from a molecular motor's transport properties in non-equilibrium steady states / 황원석, 현창봉*(고등과학원)

D1,02(초) [11:24 - 11:48]

Tau- & Taxol-mediated Microtubule Architectures / CHOI MYUNG CHUL*(Dept. of Bio and Brain Engineering, KAIST)

D1,03* [11:48 - 12:00]

Tinnitus as a neural net property / PARK Maruchan, AHN Kang-Hun* (Department of Physics, Chungnam National University)

D1,04* [12:00 - 12:12]

Pattern recognition of complex sounds with background noise / LEE Woo Seok, AHN Kang-Hun*(Department of Physics, Chungnam National University)

D1,05* [12:12 - 12:24]

Multiphasic Fusion in Auditory Inner Hair Cell Synapses / PARK Sul-Ah, AHN Kang-Hun*(Department of Physics Chungnam National University)

D1,06* [12:24 - 12:36]

Auditory Transduction using Artificial Basilar Membrane with Its Machine Learning System / YOO Jaeyun, AHN Kang-Hun*(Department of Physics Chungnam National University)

[D2-op] THz and MIR spectroscopy

2016. 10. 20 Thursday 11:00 – 12:36

Room: # 204

좌장 : 이 중 욱 전남대학교

Chair: LEE Joong-Wook (Chonnam National Univ.)

D2.01(초) [11:00 - 11:24]

Terahertz nanophotonics based on metallic nanogaps / PARK Hyeong-Ryeol* (Department of Physics, Chungbuk National University)

D2.02 [11:24 - 11:36]

Proposing all-optical petahertz device / LEE JAEDONG^{*1}, YUN WON SEOK¹, KIM YOUNGJAE¹, PARK NOEJUNG^{2(1DGIST, 2UNIST)}

D2.03 [11:36 - 11:48]

Characterization of ultrashort mid-IR pulse by phase-sensitive surface nonlinear optical spectroscopy / SUNG Woongmo, SONA Krem, KIM Doseok* (Sogang University)

D2.04* [11:48 - 12:00]

Displacement measurement using an optoelectronic oscillator with an intra-loop Michelson interferometer / PARK Sooyoung, LEE Jehyun, CHO D.* (Department of Physics, Korea University)

D2.05* [12:00 - 12:12]

Transmission characteristic of terahertz waves modulated by film thickness of nano-resonators / KIM Dasom¹, JEONG Jeeyoon¹, LEE Dukhyung¹, PARK Woongkyu¹, BAHK Young-Mi², KIM Dai-Sik^{*1} (¹Department of Physics & Astronomy, Seoul National University, ²Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany)

D2.06* [12:12 - 12:24]

Microwave and Millimeter-wave Funneling through Nanogaps / LEE Kwanghee¹, JEONG Jeeyoon¹, BAHK Young-Mi¹, RHIE Jiyeah¹, BAEK In-Keun², HONG Seunghun³, PARK Gun-Sik², KIM Dai-Sik^{*1} (¹Department of Physics and Astronomy and Center for Atom Scale Electromagnetism, Seoul Natl. Univ., ²Center for THz-Bio Application Systems, Department of Physics and Astronomy, Seoul Natl. Univ., ³Department of Physics and Astronomy and Institute of Applied Physics, Seoul Natl. Univ.)

D2.07* [12:24 - 12:36]

THz Spectral Filling by Complementary Tandem Configuration / 강봉주¹, 김원태¹, 이승현², JAZBINSEK Mojca³, 권오편², 이상민^{*4} (¹아주대학교 물리학과/에너지시스템학과, ²아주대학교 분자과학기술학과, ³Institute of

[D3-se] Pioneer symposium : Epitaxy-based self-assembled semiconductor nanostructures and their applications I

2016. 10. 20 Thursday 11:00 – 12:12

Room: # 208

좌장 : 김 용 민 단국대학교

Chair: KIM Yong-Min (Dankook Univ.)

D3.01(초) [11:00 - 11:24]

MBE growth of III-V based nano structures for the application to low-power consumption III-V CMOS on Si for Post-Si Era / SONG Jin dong*(Post-Silicon Semiconductor Institute, KIST, Seoul 136-791, South Korea)

D3.02(초) [11:24 - 11:48]

Growth control of In(Ga)As/GaAs quantum dots and their application in optoelectronic devices / XU Bo*, WANG Z.G., YE X.L., CHEN Y.H., JIN P., LIU F.Q.(Institute of Semiconductors, Chinese Academy of Sciences, Beijing, 100083, China)

D3.03(초) [11:48 - 12:12]

Growth of Group III-Nitride Semiconductor Nanostructures and Their Photonic Applications / CHO Yong-Hoon*(Department of Physics and KI for the NanoCentury, KAIST)

[D4-ap] Focus session: Organic Materials and Devices II

2016. 10. 20 Thursday 11:00 – 12:24

Room: # 209

좌장 : 이 탁 희 서울대학교

Chair: LEE Tak-Hee (Seoul National Univ.)

D4.01* [11:00 - 11:12]

Interfacial orbital alignment of C₆₀/DTDCTB/PEDOT:PSS/ITO for organic photovoltaics / YOO Jisu¹, JUNG Kwanwook¹, JEONG Junkyeong¹, HYUN Gyeongho¹, LEE Hyunbok^{*2}, YI Yeonjin^{*1}(¹Institute of Physics and Applied Physics, Yonsei University, ²Department of Physics, Kangwon National University)

D4.02* [11:12 - 11:24]

Gate dependent non-local spin resistance and symmetry of spin-orbit scattering in an Au-patched graphene / PARK Jungmin, YUN Hyungduk, JIN Mi-Jin, JO Junhyeon, OH Inseon, MODEPALLI Vijayakumar, KWON Soon-Yong, YOO Jung-Woo*(School of Materials Science and Engineering -Low dimensional Carbon Materials Center, UNIST)

D4.03* [11:24 - 11:36]

Plasmon Activating Effective Optical Waveguide of Hybrid Crystals Based on Organic and Nanoscale metals / KIM Seokho, LEE Ho Jin, PARK Dong Hyuk* (Department of Applied Organic Materials Engineering, Inha University)

D4.04* [11:36 - 11:48]

실크 기판 위에 구현된 멜라닌 광스위칭 채널 / 조민식¹, 민예림¹, 민경택¹, 김성환² (아주대학교 에너지시스템학과, ²아주대학교 물리학과)

D4.05* [11:48 - 12:00]

Study of carrier mechanism of ITO/PI/TIPS-Pentacene/Au diode by using electrical and optical measurements / 조성집, 임은주* (단국대학교 창의융합제조공학과/과학교육과)

D4.06 [12:00 - 12:12]

Mobility and Bias Stability of Organic Field-Effect Transistors with Self-Assembled Monolayer Treatment / ROH Jeongkyun¹, ROH Heebeom^{1, 2}, JUNG Byung Jun³, LEE Changhee^{*1, 2} (¹Inter-University Semiconductor Research Center, Seoul National University, ²Department of Electrical and Computer Engineering, Seoul National University, ³Department of Materials Science and Engineering, The University of Seoul)

D4.07* [12:12 - 12:24]

All-protein-based single mode distributed feedback laser / UMAR Muhammad¹, MIN Kyungtaek¹, NIZAMOGLU Sedat³, KIM Sunghwan^{*1, 2} (¹Department of Energy Systems Research, Ajou University, ²Department of Physics, Ajou University, ³Department of Electrical Engineering, Koc University)

[D5-ap] Focus session: Thermoelectrics II

2016. 10. 20 Thursday 11:00 – 12:00

Room: # 210

좌장 : 배 명 호 한국표준과학연구원

Chair: BAE Myung-Ho (KRISS)

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

Band engineering and nanostructuring in the vicinity of breakdown of topological crystalline insulator in Pb-based multiple elements doped compounds / LIN Chan-Chieh, GINTING Dianta, LYDIA R., RHYEE Jong-Soo* (Department of Applied Physics and Institute of Natural Sciences, Kyung Hee University)

D5.02* [11:12 - 11:24]

Theoretical and experimental study: Enhancement of Thermoelectric performance in SnTe through the negative correlation effect

between thermos-power and carrier density with Ag doping. / LEE Min Ho^{1,2}, RHYEE Jong-Soo^{*1}, RYU Byung Ki^{*2}(¹Department of Applied Physics Kyung Hee University, ²Korea Electrotechnology Research Center (KERI))

D5.03* [11:24 - 11:36]

Barrier blocking by nanoinclusion enhancement thermoelectric efficiency of low doped n- type (PbTe_{0.84-x}Cl_x) – (PbSe)_{0.07} – (PbS)_{0.07} / GINTING Dianta, LIN Chan-Chieh, RHYEE Jong-Soo^{*}(Dept. of Applied Physics, Kyung Hee University, Yong-In, Korea)

D5.04* [11:36 - 11:48]

Thickness-Dependent Lattice Thermal Conductivity of MoS₂ and Effect of Point Defects / PARK Minkyu^{1,2}, KIM Yong-Sung^{*1,2} (¹University of Science and Technology, ²Korea Research Institute of Standards and Science)

D5.05 [11:48 - 12:00]

The structural and transport properties of Sb₂Te₃ thin films grown on GaSb/Si(111) by molecular beam epitaxy / DUONG Van Thiet, NGUYEN Van Quang, NGUYEN Thi Minh Hai, NGUYEN Thi Huong, NGUYEN Thi Thanh Huong, NGUYEN Anh Phuong, PHAM Anh Tuan, VU Thi Hoa, DUONG Anh Tuan, CHO Sunglae^{*}(Department of Physics and Energy Harvest Storage Research Center, University of Ulsan, Ulsan 680-749)

E [D6-co] Pioneer: 30th anniversary for the discovery of high temperature superconductivity : status of the research

2016. 10. 20 Thursday 11:00 – 12:48

Room: # 211

좌장 : 한 정 훈 성균관대학교

Chair: HAN Jung-Hoon (Sungkyunkwan Univ.)

D6.01(초) [11:00 - 11:36]

Genes for unconventional high temperature superconductors / HU Jiangping^{*}(Institute of Physics, Chinese Academy of Sciences, China)

D6.02(초) [11:36 - 12:12]

How to determine the pairing interaction of cuprate superconductors / CHOI Han-Yong^{*}(Department of Physics, Sungkyunkwan University)

D6.03(초) [12:12 - 12:48]

Pairing Mechanism of the FeSe-monolayer and related Systems / BANG junkyu^{*}(Department of Physics Chonnam National University)

[D7-co] Strongly Correlated Systems II

2016. 10. 20 Thursday 11:00 – 12:36

Room: # 212

좌장 : 이 성 빈 한국과학기술원

Chair: LEE Sung-Bin (KAIST)

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

Holography of Dirac fluid with two currents in Graphene / 서윤석¹, 송근호¹, Philip Kim², Subir Sachdev², 신상진^{1*} (¹한양대학교 물리학과, ²Harvard University)

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

Anomaly Manifestation of Lieb-Schultz-Mattis Theorem and Topological Phases / CHO Gil Young, MOON Eun-Gook* (Department of Physics, KAIST)

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

Coulomb anomaly at the Mott-Anderson metal-insulator transition / LEE Hyun-Jung* (Department of Physics, POSTECH)

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

Impurity-driven Insulator-to-Metal Transition in VO₂ / KIM Hyun-Tak* (MIT Lab in ETRI)

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

Observation of a metallic chain in monoclinic VO₂ by coherent phonons / SLUSAR Tetiana V.¹, CHO Jin-Cheol², LEE Hyang-Rok³, YEE Ki-Ju³, KIM Hyun-Tak^{1, 2*} (¹Metal-Insulator-Transition Laboratory, Electronics and Telecommunications Research Institute, ²Department of Advanced Device Technology, University of Science and Technology, ³Department of Physics, Chungnam National University)

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

The trailing flexoelectric field in a system of motion with contact / 박성민^{1, 2}, 노태원^{1, 2*} (¹서울대학교 물리학과, ²IBS-CCES)

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

In situ strain engineering of epitaxial perovskite oxide thin film / LEE Hyeon Jun¹, GUO Er-Jia^{2, 3}, KWAK Jeong Hun¹, HWANG Seung Hyun¹, DORR Kathrin³, LEE JUN Hee⁴, JO Ji Young^{1*} (¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology, ²Quantum Condensed Matter Division, Oak Ridge National Laboratory, ³Institute for Physics, Martin-Luther-University Halle-Wittenberg, ⁴School of Energy and Chemical Engineering, Ulsan Institute of Science and Technology)

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

Interface control of ferroelectricity in a $\text{SrRuO}_3/\text{BaTiO}_3/\text{SrRuO}_3$ capacitor in ultrathin limit / SHIN Yeong Jae^{1,2}, KIM Yoonkoo³, KANG Sung-Jin^{1,2}, NAHM Ho-Hyun^{1,2}, MURUGAVEL Pattukkannu⁴, KIM Jeong Rae^{1,2}, CHO Myung Rae^{1,2}, WANG Lingfei^{1,2}, YANG Sang Mo⁵, YOON Jong-Gul⁶, CHUNG Jin-Seok⁷, KIM Miyoung³, ZHOU Hua⁸, CHANG Seo Hyoung⁹, NOH Tae Won^{*1,2} (¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, Seoul National University (SNU), ³Electronic Materials Research Center, Korea Institute of Science and Technology, ⁴Department of Physics, Indian Institute of Technology Madras, ⁵Center for Nanophase Materials Sciences, Oak Ridge National Laboratory, ⁶Department of Physics, University of Suwon, ⁷Department of Physics, Soongsil University, ⁸Advanced Photon Source, Argonne National Laboratory, ⁹Department of Physics, Pukyong National University)

E [D8-co] Focus session : Ultrashort X-ray Sources and Applications in materials dynamics

2016. 10. 20 Thursday 11:00 – 12:48

Room: # 213

좌장 : 황 찬 용 한국표준과학연구원

Chair: HWANG Chan-Yong (KRISS)

D8.01(초) [11:00 - 11:36]

New Opportunities in High Energy Density Science with PAL-XFEL
/ CHO Byoung-ick*(Department of Physics and Photon Science, GIST)

D8.02(초) [11:36 - 12:00]

Diffraction signal enhancement by multi-particle diffraction in single-shot imaging using XFEL / NAM Daewoong¹, KIM Chan², KIM Yoonhee³, KIM Junhyung², JEONG Cheolho¹, PARK Jaehyun⁴, KIM Sunam⁴, KIM Sang Soo⁴, NOH Do Young^{2,3}, SONG Changyong^{*1} (¹Department of Physics, Pohang University of Science and Technology, ²Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ³School of Materials Science and Engineering, Gwangju Institute of Science and Technology, ⁴Pohang Accelerator Laboratory)

D8.03* [12:00 - 12:12]

Ultrafast X-ray absorption in NiO studied using femtosecond laser plasma hard X-ray pulses / IQBAL Mazhar¹, IJAZ Muhammad¹, SEO Okkyun¹, STIEL Holger², JANULEWICZ Karol Adam³, YOUNG Noh Do^{*1} (¹Department of Physics and Photon Science, South Korea, ²Max Born Institute, Germany, ³Military University of Technology Warsaw, Poland)

D8.04* [12:12 - 12:24]

Construction of a compact size 4He magnetic force microscope

/ 김훈^{1,2}, 김지훈^{1,2} (¹Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea, ²Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science)

D8.05* [12:24 - 12:36]

Comparison of AuNi alloy nanoparitics fabricated by different heat supply method by x-ray imaging / Yoonhee Kim¹, Chan Kim^{1,2}, Junhyeong Kim¹, Kang Woo Ahn¹, Do Young Noh^{*1} (¹School of Materials Science and Engineering & Department of Physics and Photon Science, GIST, 123 C, ²Materials Imaging and Dynamics, European XFEL, Schenefeld 22869, Germany)

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D8.06* [12:36 - 12:48]

Synchrotron X-rays Scattering Study of MIT Transition in VO₂ Nanowires / MOHD Faiyaz¹, AHN Kangwoo¹, SEO Okkyun², KIM Yoonhee¹, CHOI Jung Won², HA Sung Soo², OH Hojun¹, KANG Hyon Chol³, NOH Do Young^{*1} (¹Department of Physics and Photon Science, School of Physics and Chemistry GIST Gwangju Korea 500-712, ²School of Materials Science and Engineering, GIST, Gwangju, Korea 500-712, ³Department of Advanced Materials Engineering, Chosun University, Gwangju, Korea 501-759)

[D9-co] Nano and mesoscopic physics

2016. 10. 20 Thursday 11:00 – 12:24

Room: # 214

좌장 : 도 용 주 광주과학기술원

Chair: DOH Yong-Joo (GIST)

D9.01 [11:00 - 11:12]

Suppressing Kondo singlet by breaking the SU(2) Kondo symmetry / YOO Gwangsu, SIM H.-S.* (Department of Physics, KAIST)

D9.02 [11:12 - 11:24]

Staggered Exciton-Photon Lattice driven by SAW / SUN Meng^{*1}, LIEW T. H. C.², KOVALEV V. M.³, SAVENKO I. G.¹ (¹Center for Theoretical Physics of Complex Systems, Institute for Basic Science, ²Division of Physics and Applied Physics, Nanyang Technology University, Singapore, ³Institute of Semiconductor Physics, RAS, Russia)

D9.03 [11:24 - 11:36]

Vacuum bubble of non-Abelian anyons / HAN Cheolhee, SIM Heung-Sun* (Department of Physics, KAIST)

D9.04 [11:36 - 11:48]

Aharonov-Bohm effect without topology in a charge qubit / 김영완, 강기천* (전남대학교 물리학과)

D9,05 [11:48 - 12:00]

A new non-topological geometric phase of an electric dipole under a magnetic field at a distance / 이강호, 강기천* (전남대학교 물리학과)

D9,06 [12:00 - 12:12]

Fano resonance and the unexpected band structure in flat band lattice models / RYU Jung-Wan*, MYOUNG Nojoon, PARK Hee Chul (Center for Theoretical Physics of Complex Systems, Institute for Basic Science)

D9,07 [12:12 - 12:24]

Peculiar Quantum Hall Conductance of Topological Edge States at p-n Junctions in Graphene / MYOUNG Nojoon*, PARK Hee Chul (Center for Theoretical Physics of Complex Systems, Institute for Basic Science)

[D10-or] The Lecture of PRL Editor

2016. 10. 20 Thursday, 11:00 – 12:48

Room: # 301

좌장 : 박 제 근 서울대학교

Chair: PARK Je-Geun(Seoul National Univ.)

D10,01 [11:00 - 12:48]

Secrets of PRL / GARISTO Robert* (Editor, Physical Review Letters)

[D11] No session

[D12-pl] Focus session: Perspective of X-ray Free Electron Lasers

2016. 10. 20 Thursday 11:00 – 12:36

Room: # 303

좌장 : 정 영 욱 한국원자력연구원

Chair: JEONG Young-Uk (KAERI)

D12,01(초) [11:00 - 11:24]

Status of PAL-XEL and its advanced operation mode / 강흥식* (포항 공대 가속기연구소)

D12,02(초) [11:24 - 11:48]

Femtosecond timing distribution and synchronization of PAL-XFEL / MIN Chang-Ki* (Pohang Accelerator Laboratory)

D12.03(초) [11:48 - 12:12]

Toward Generation of Isolated Tera-watt attosecond X-ray laser pulse / KIM DONG EON* (Department of Physics, POSTECH)

D12.04(초) [12:12 - 12:36]

PAL-XFEL을 활용한 천체-플라즈마 물리 연구 / 정모세*, 광규진, 김채운, 허민섭, 류동수* (울산과학기술원 물리학과)

[D13-pa] Field and string theory II

2016. 10. 20 Thursday 11:00 - 12:48

Room: # 304

좌장 : **김 윤 배** 성균관대학교

Chair: KIM Yoon-Bai (Sungkyunkwan Univ.)

D13.01 [11:00 - 11:12]

2d (0,2) gauge theories, triality, and Calabi-Yau singularities /
LEE Sangmin^{*1}, SEONG Rak-Kyeong², GHIM Dongwook¹ (¹Seoul National University, ²Korea Institute for Advanced Study)

D13.02* [11:12 - 11:24]

Testing 5d-6d dualities with fractional D-branes / 윤영빈* (서울대학교 물리천문학부)

D13.03 [11:24 - 11:36]

6d strings from new chiral gauge theories / KIM Seok* (Department of Physics, Seoul National University)

D13.04* [11:36 - 11:48]

M5-branes, orientifolds, and S-duality / HWANG Yoonseok¹, KIM Joonho^{*2}, KIM Seok¹ (¹Department of Physics and Astronomy & Center for Theoretical Physics, Seoul National University, ²School of Physics, Korea Institute for Advanced Study)

D13.05* [11:48 - 12:00]

The rotation curve of a point particle in stringy gravity / 고성문, 서민우, 박정혁* (서강대학교 물리학과)

D13.06* [12:00 - 12:12]

Revisit to thermodynamic relations in the AdS/CMT models /
PARK Sang-A, HYUN Seungjoon, YI Sang-Heon* (Department of Physics, Yonsei University)

D13,07 [12:12 - 12:24]

Matrix models from localization of five-dimensional supersymmetric noncommutative U(1) gauge theory / 노대호¹, 양현석², 이범훈^{1, 2, 3} (¹아시아태평양 이론물리센터, ²양자시공간연구센터, ³서강대학교 물리학과)

D13,08 [12:24 - 12:36]

Quantum correction to the IR entanglement entropy / Chanyong Park* (아태이론물리센터)

D13,09* [12:36 - 12:48]

Explicitly reconstructing the entanglement wedge from modified mode sum approach / KIM Jung-Wook* (Department of Physics and Astronomy, Seoul National University)

E [D14-pa] Pioneer: Second Hyper-Kamiokande detector in Korea

2016. 10. 20 Thursday 11:00 – 12:36

Room: # 305

좌장 : 김 수 봉 서울대학교

Chair: KIM Soo-Bong (Seoul National Univ.)

D14,01(초) [11:00 - 11:24]

Proposal for a second Hyper-Kamiokande detector in Korea / SEO Seon-Hee* (Department of Physics and Astronomy, Seoul National University)

D14,02(초) [11:24 - 11:48]

Past efforts on a second HK detector in Korea / ISHITSUKA Masaki* (Tokyo Institute of Technology)

D14,03(초) [11:48 - 12:12]

Improved physics potentials with T2HKK / HARTZ Mark* (Kavli IPMU/ TRIUMF)

D14,04(초) [12:12 - 12:36]

Determination of the neutrino mass ordering, separation of octant degeneracy, and the leptonic CP phase / HAGIWARA Kaoru* (IPNS/KEK)

E [D15-nu] Relativistic Heavy Ion Collisions II

2016. 10. 20 Thursday 11:00 – 12:36

Room: # 306호

좌장 : 권민정 인하대학교

Chair: KWEON Min-Jung (Inha Univ.)

D15.01(초) [11:00 - 11:36]

News on Relativistic Heavy Ion Collisions / WANG Fuqiang* (Purdue University)

D15.02(초) [11:36 - 12:12]

Collective flow measurements at RHIC energies / ESUMI Shinichi* (University of Tsukuba)

D15.03 [12:12 - 12:24]

Production of the X(3872) meson by recombination in heavy ion collisions / CHO Sungtae* (Kangwon National University)

D15.04 [12:24 - 12:36]

Measurements of beauty-decay electrons in ALICE at the LHC / 김민정*, 권민정, 윤진희 (인하대학교 물리학과)

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SESSION E

2016 October 20(Thu) 14:00–15:48

[E1-st] Biophysics II

2016. 10. 20 Thursday 14:00 – 15:36

Room: # 201

좌장 : 정 영 균 한국과학기술정보연구원

Chair: JUNG Young-Kyun (KISTI)

E1.01(초) [14:00 - 14:24]

Quantifying superdiffusive transport in living cells: a few examples / Jae-Hyung Jeon* (Department of Physics, POSTECH)

E1.02(초) [14:24 - 14:48]

Phase Modulation of Hormonal Oscillations / 박동호¹, 송태근¹, HOANG Danh-Tai², XU Jin^{1, 3}, 조정효^{*1, 3} (¹Asia Pacific Center for Theoretical Physics, ²National Institute of Diabetes and Digestive and Kidney Diseases, NIH, USA, ³Department of Physics, POSTECH)

E1.03* [14:48 - 15:00]

Analysis of diffusion trajectories of anisotropic objects / 노승한¹, 이주연², 김용운^{*1} (¹KAIST 나노과학기술대학원, ²부산대학교 물리학과)

E1.04 [15:00 - 15:12]

Voltage Generation and Relaxation at the ITO-water interface / Yoonnam Jeon¹, Jong Kyun Moon¹, Myung Won Song^{1, 2}, Hyuk Kyu Pak^{*1, 2} (¹Center for Soft and Living Matter, Institute for Basic Science (IBS), Ulsan 44919, Korea, ²Department of Physics, Ulsan National Institute of Science and Technology (UNIST), Ulsan 44919, Korea)

E1.05 [15:12 - 15:24]

Emergence of Sparsely Synchronized Rhythms and Their Responses to External Stimuli in An Inhomogeneous Small-World Complex Neuronal Network / LIM Woochang*, KIM Sang-Yoon (Institute for Computational Neuroscience, Daegu National University of Education)

E1.06 [15:24 - 15:36]

Cross-species essentiality landscape for the evolution of the metabolic networks / KIM Purin¹, LEE Deok-sun^{*2}, KAHNG Byungnam^{*1} (¹Department of Physics and Astronomy, Seoul National University, ²Department of Physics, Inha University)

[E2-op] Optical imaging and technology

2016. 10. 20 Thursday 14:00 – 15:36

Room: # 204

좌장 : 최 수 봉 인천대학교

Chair: CHOI Soo-Bong (Incheon National Univ.)

E2.01* [14:00 - 14:12]

Demonstration of Structured Magnetic Illumination Microscopy /

LEE Dukhyung¹, KANG Taehee¹, KIHM Hyun Woo², KIM Dai-Sik^{*1} (¹Department of Physics and Astronomy and Center for Atom Scale Electromagnetism, Seoul Natl. Univ., ²Korea Research Institute of Chemical Technology (KRICT), 141 Gajeong-ro, Yuseong-gu, Daejeon)

E2.02* [14:12 - 14:24]

Near-ultraviolet structural color in aluminum nanoantenna array

/ LEE Chun-Ho¹, KIM Youngrok², SONG Jung-Hwan¹, EE Ho-Seok¹, JEONG Kwang-Yong³, HWANG Min-Soo³, PARK Hong-Gyu³, LEE Takhee², SEO Min-Kyo^{*1} (¹Department of Physics Korea Advanced Institute of Science and Technology, ²Department of Physics and Astronomy, and Institute of Applied Physics, Seoul National University, ³Department of Physics Korea University)

E2.03* [14:24 - 14:36]

Bio-inspired structural coloration realized by thin-film rolling technique / 한창현¹, 김한빛¹, 정현호¹, 전현수^{*1, 2}

(¹서울대학교 물리천문학부, ²서울대학교 생물물리 및 화학생물학과)

E2.04* [14:36 - 14:48]

시간역행 거울을 이용한 미세 광집속 / 박종찬, 박용근* (한국과학기술원 물리학과)

E2.05* [14:48 - 15:00]

초점가변렌즈를 이용한 구조조명 기반의 3차원 표면형상측정 방법

/ 김주완¹, 허정무², 박호진², 엄종현¹, 엄주범³, 안재성³, 박안진³, 이병하^{*2} (¹광주과학기술원 의생명공학과, ²광주과학기술원 전기전자컴퓨터공학부, ³한국광기술원 광의료연구센터)

E2.06* [15:00 - 15:12]

Measurement of wafer morphology using interferometer for the overlay correction / 김재순^{*1}, 윤성민¹, 임승일¹, 최재준¹, 양한모¹, 정우성², 이윤기², 이재용³

(¹명지대학교 물리학과 NEMO Lab., ²AUROS Technology, ³한국표준과학연구원)

E2.07* [15:12 - 15:24]

반도체 웨이퍼 상의 결함 검출용 고효율 조명계의 애너모픽적 접근에

관한 연구 / 한우준¹, 권오형¹, 조은길¹, 김재순^{*1}, 추승용², 오승철² (¹명지대학교 물리학과 NEMO Lab., ²오로스테크놀로지)

E2.08* [15:24 - 15:36]

다중 광 산란 제어를 이용한 다기능 광학소자 구현 / 박종찬, 박용근* (한국과학기술원 물리학과)

[E3-se] Pioneer symposium: Epitaxy-based self-assembled semiconductor nanostructures and their applications II

2016. 10. 20 Thursday 14:00 – 15:36

Room: # 208

좌장(Chair) : Bo Xu Chinese Academy of Sciences

E3.01(초) [14:00 - 14:24]

Broadband high photoresponse graphene photodetector / ZHANG Yongzhe^{*1}, LIU Tao², WANG Qi Jie² (¹Beijing University of Technology, Beijing, 100124, P. R. China, ²Nanyang Technological University, Singapore 637371, Singapore)

E3.02(초) [14:24 - 14:48]

Curved image sensors for biologically inspired vision systems / SONG Young Min* (School of Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology)

E3.03(초) [14:48 - 15:12]

Semiconductor Quantum Dots for Quantum Information Technologies / HUO Y.H.* (University of Science and Technology of China, Hefei, Anhui 230026, China)

E3.04(초) [15:12 - 15:36]

Nanowire photovoltaics / PARK Hong-Gyu* (Department of Physics, Korea University, Republic of Korea)

[E4-ap] Focus session: Bio-Medical I

2016. 10. 20 Thursday 14:00 – 15:48

Room: # 209

좌장 : 백 구 연 광운대학교

Chair: BAIK Ku-Youn (Kwangwoon Univ.)

E4.01(초) [14:00 - 14:36]

Effects of reactive oxygen and nitrogen species on nucleobases, DNA, and plasmid / 이건준^{*1}, Bhagirath Ghimire¹, 강민호¹, 엄환섭¹, 최은하¹, 김대욱², 김준영², 김성환², 함원규³, 황보창권³ (¹광운대학교 전자바이오물리학과, ²단국대학교 미생물학과, ³인하대학교 물리학과)

E4.02(초) [14:36 - 15:12]

HAR-NDS (Hyaluronic Acid-Rich Node and Duct System) and Stem Cells / Byoung S. Kwon* (Eutilex, and Tulane University)

E4.03(초) [15:12 - 15:48]

Computational Drug Carrier Design from Microvascular Transport to Cellular Uptake / LEE Tae-Rin^{*1}, YOO Sung Sic¹, HWANG Eunhee¹, LEE Jeongwon¹, JO Junhong² (¹Advanced Institutes of Convergence Technology, Seoul National University, ²Department of Mathematics, Inha University)

[E5-ap] Focus session: Physical instrumentation: AFM

2016. 10. 20 Thursday 14:00 – 15:36

Room: # 210

좌장 : 김 정 대 울산대학교

Chair: KIM Jung-Dae (Univ. of Ulsan)

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E5.01(초) [14:00 - 14:24]

원자힘현미경 캔티레버 교정법의 현재와 차세대 개발 / 최재혁* (한국표준과학연구원 기반표준부)

E5.02(초) [14:24 - 14:48]

Construction of ³He magnetic force microscope with a vector magnet / 김지훈* (포항공과대학교 물리학과)

E5.03(초) [14:48 - 15:12]

AFM study of nanopores in liquid environment / HYUN Changbae* (School of Natural Science, Ulsan National Institute of Science and Technology)

E5.04(초) [15:12 - 15:36]

Beyond single frequency PFM: band excitation method / YANG Sang Mo* (Department of Physics, Sookmyung Women's University)

[E6-or] Biophysics / Frontiers in Brain Imaging

2016. 10. 20 Thursday 14:00 – 15:48

Room: # 211

좌장 : 박 혜 윤 서울대학교

Chair: PARK Hye-Yoon (Seoul National Univ.)

E6.01(초) [14:00 - 14:36]

Large field of view wavefront shaping for deep brain imaging / PARK Jung-Hoon* (UNIST)

E6.02(초) [14:36 - 15:12]

Neural map in nanoscale: analysis of serial electron microscope images / KIM Jinseop* (Korea Brain Research Institute)

E6.03(초) [15:12 - 15:48]

Brain imaging application of photoacoustic tomography / YANG Joon-Mo* (Department of Physics, Ulsan National Institute of Science and Technology)

[E7-co] Materials genome

2016. 10. 20 Thursday 14:00 - 15:48

Room: # 212

좌장 : 이 재 광 부산대학교

Chair: LEE Jae-Kwang (Busan National Univ.)

E7.01(초) [14:00 - 14:36]

Ab initio materials design by an inverse method / CHANG Kee Joo*¹, KIM Sunghyun¹, HAN Woo Hyun¹, SUNG Ha-Jun¹, OH Young Jun², LEE In-Ho^{3, 4}, LEE Jooyoung⁴ (¹Department of Physics, Korea Advanced Institute of Science and Technology, ²Department of Materials Science and Engineering, University of Texas at Dallas, ³Korea Research Institute of Standards and Science, ⁴School of Computational Science, Institute for Advanced Study)

E7.02(초) [14:36 - 15:12]

Design of Active and Durable Catalysts toward Oxygen Redox Reactions in Acidic Media for Energy Devices / HAN Byungchan* (Department of Chemical and Biomolecular Engineering, Yonsei University)

E7.03(초) [15:12 - 15:48]

Inclusion of Environmental Effect to Electronic Structure Calculations using Grid-based Mean-field Coupling of MD and DFT / KIM Hyungjun* (Graduate School of EEWS, KAIST, Daejeon)

[E8-co] Pioneer: Inauguration Symposium of the PAL - X-ray Free Electron Laser : Ultrafast X-ray Science

2016. 10. 20 Thursday 14:00 - 15:48

Room: # 213

좌장 : 노 도 영 광주과학기술원

Chair: NOH Do-Young (GIST)

E8.01(초) [14:00 - 14:36]

New Research Opportunities with PAL-XFEL Facility / KO In Soo* (Pohang Accelerator Laboratory, POSTECH)

E8.02(초) [14:36 - 15:00]

Materials Imaging and Dynamics Station at the European X-Ray Free-Electron Laser Facility / MADSEN Anders* (European X-Ray Free-Electron Laser)

E8.03(초) [15:00 - 15:24]

Macromolecular crystallography at SACLA / YAMASHITA Keitaro* (RIKEN SPring-8 Center)

E8.04(초) [15:24 - 15:48]

Evolution of Internal Strain Development during the Catalytic Process using X-ray Free Electron Laser / KIM Hyunjung^{*1}, KANG Jinback¹, CARNIS Jerome¹, CHUNG Myungwoo¹, KIM Dongjin¹, LEE Heeju^{1,2}, AN Gukil¹, CHA Wonsuk³, HARDER Ross⁴, SONG Sanghoon⁵, SIKORSKI Marcin⁵, ROBERT Aymeric⁵, PHAM Tung Cao Thanh⁶, YOON Kyung Byung⁶, CHOI Yong Nam², CLARK Jesse^{7,8}, ROBINSON Ian K.⁹ (¹Department of Physics, Sogang University, Korea, ²Korea Atomic Energy Research Institute, Korea, ³Materials Science Division, Argonne National Laboratory, USA, ⁴Advanced Photon Source, Argonne National Laboratory, USA, ⁵Linac Coherent Light Source, SLAC National Accelerator Laboratory, USA, ⁶Department of Chemistry, Sogang University, Korea, ⁷Stanford PULSE Institute, SLAC National Accelerator Laboratory, USA, ⁸Center for Free-Electron Laser Source (CFEL), Deutsches Elektronensynchrotron (DESY), Germany, ⁹London Centre for Nanotechnology, University College London, UK)

[E9-co] Focus session: Spin, Orbital, and Valley Physics in Condensed Matter Systems

2016. 10. 20 Thursday 14:00 – 15:36

Room: # 214

좌장 : 배 명 호 한국표준과학연구원

Chair: BAE Myung-Ho (KRISS)

E9.01(초) [14:00 - 14:24]

Strongly enhanced Rashba-Dresselhaus splitting in the perovskite oxide heterostructure / CHUNG Suk Bum^{*1,2}, KIM Minsung^{1,3}, IHM Jisoon^{1,4} (¹Department of Physics and Astronomy Seoul National University, ²Center for Correlated Electrons Institute for Basic Science, ³Ames Laboratory and Department of Physics Iowa State University, ⁴Department of Physics Pohang University of Science and Technology)

E9.02(초) [14:24 - 14:48]

Valley pseudospin in 2D transition metal dichalcogenides / LEE Jieun* (Department of Physics, Ajou University)

E9.03(초) [14:48 - 15:12]

Berry phase due to atomic orbital degree of freedom / 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)

E9.04 [15:12 - 15:24]

Dirac semimetals protected by type II nonsymmorphic symmetry / YANG Bohm Jung* (Department of Physics and Astronomy, Seoul National University)

E9.05 [15:24 - 15:36]

Shift charge and spin photocurrents in Dirac surface states of topological insulator / Kun Woo Kim*¹, Takahiro Morimoto², Naoto Nagaosa^{3,4} (¹Korea institute for advanced study, ²University of California, Berkeley, ³University of Tokyo, ⁴RIKEN, center for emergent science)

[E10-as] Astrophysics Theory

2016. 10. 20 Thursday 14:00 - 15:48

Room: # 301

좌장 : 강 궁 원 한국과학기술정보연구원

Chair: KANG Gung-Won (KISTI)

E10.01(초) [14:00 - 14:36]

Multi-Dimensional Hydrodynamics Simulations with Additional Features: Radiation and Reaction / KWAK Kyujin* (School of Natural Science, Ulsan National Institute of Science and Technology)

E10.02 [14:36 - 14:48]

Static-Fluid Black Holes / CHO Inyong*¹, KIM Hyeong-Chan² (¹Seoul National University of Science and Technology, ²Korea National University of Transportation)

E10.03 [14:48 - 15:00]

Blackholes with anisotropic fluid / 김형찬* (한국교통대학교 교양학부)

E10.04 [15:00 - 15:12]

The bound on radiation energy in the collision of two Myers-Perry black holes / 박보근* (세종대학교 물리천문학과)

E10.05 [15:12 - 15:24]

General Relativistic Modification of Goldreich-Julian Model / KIM Dong-Hoon* (Astronomy Program, Seoul National University)

E10.06 [15:24 - 15:36]

Hamiltonian analysis of nonlocal gravity / KOH Seoktae^{*1}, PARK Sohyun² (¹Jeju National University, ²Korea Astronomy and Space Science Institute)

E10.07 [15:36 - 15:48]

Tunneling decay of false vortices with gravitation / Eric Dupuis⁴, Bum-Hoon Lee^{1, 2, 3}, Wonwoo Lee^{*1}, Manu B. Paranjape⁴, Dong-han Yeom⁵ (¹CQeST, Sogang University, ²Department of Physics, Sogang University, ³Asia Pacific Center for Theoretical Physics, ⁴Universit  de Montr al, ⁵National Taiwan University)

[E11-or] Forum for Basic Research Programs in National Research Funding

2016. 10. 20 Thursday 14:00 – 16:10

Room: # 302

좌장 : 이 금 원 고려대

Chair: LEE Geung-Won (Korea Univ.)

E11.01 [14:05 -15:05]

대한민국 미래를 위한 기초연구 발전 비전 / 김성규 과장(미래부 기초연구진흥과)

E11.02 [15:05 -16:05]

2017년 기초연구사업 시행계획 의견수렴 / 남계춘 단장 (한국연구재단 자연과학단)

[E12-pl] Focus session: Laser Plasma Physics

2016. 10. 20 Thursday 14:00 – 15:36

Room: # 303

좌장 : 조 병 익 광주과학기술원

Chair:CHO Byoung-Ick (GIST)

E12.01(초) [14:00 - 14:24]

Ion Acceleration from Relativistic Laser Plasma: Progress and Perspectives / SARGIS Ter-Avetisyan^{*} (Center for Relativistic Laser Science, IBS, Dept. of Physics and Photon Science, GIST)

E12.02(초) [14:24 - 14:48]

Rapid and uniform heating of matter with laser-driven quasimonoenergetic aluminum ions / BANG Woosuk^{*} (Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST))

E12.03(초) [14:48 - 15:12]

고체 발생 플라즈마를 이용한 레이저 기반 전자빔 가속 / 김재훈^{*1},
항보용훈¹, 류우제², 김경남², 박성희² (¹한국전기연구원, ²한국원자력연구원)

E12.04(초) [15:12 - 15:36]

Selectively Enhanced Emission of Radiation from a Current Source Embedded in Cut-off of a Plasma-like Medium / HUR MinSup^{*1}, ERSFELD Bernhard², NOBLE Adam², SUK Hyyong³, JAROSZYNSKI Dino A² (¹Department of Physics, UNIST, ²Scottish Universities Physics Alliance and University of Strathclyde, ³Department of Physics and Photon Science, GIST)

E [E13-pa] Particle physics theory I

2016. 10. 20 Thursday 14:00 – 15:48

Room: # 304

좌장 : 최 성 렬 전북대학교

Chair: CHOI Seong-Youl (Chonbuk National Univ.)

E13.01(초) [14:00 - 14:24]

Quarkonium Physics/Some College Physics Problems / LEE Jungil^{*}
(Department of Physics, Korea University)

E13.02 [14:24 - 14:36]

Probing the top-quark with diboson production at the LHC / CHO Won Sang^{*} (Department of Physics and Astronomy, Seoul National University)

E13.03 [14:36 - 14:48]

Apparent unitarity violation in top quark's mass off-shell region from a new physics at high energy colliders / PARK Myeonghun^{*}
(Institute for Basic Science, CTPU)

E13.04 [14:48 - 15:00]

Hunting Composite Higgs model UV embeddings in di-boson, top-pair and other exotic searches at the LHC / FLACKE Thomas Dieter^{*}
(Center for Theoretical Physics of the Universe (CTPU), IBS)

E13.05 [15:00 - 15:12]

Searching for Relaxions through the Higgs Portal / FLACKE Thomas Dieter^{*} (Center for Theoretical Physics of the Universe (CTPU), IBS)

E13.06 [15:12 - 15:24]

Peccei-Quinn inflation and the stability of Higgs potential / LEE Hyun Min^{*} (Department of Physics Chung-Ang University)

E13.07* [15:24 - 15:36]

Investigating the jet activity accompanying the production at the LHC of a massive scalar particle decaying into photons / FUKS Benjamin^{1, 2}, KANG Dong Woo^{3, 4}, PARK Seong Chan^{4, 5}, SEO Min-Seok⁶ (¹Sorbonne Universités, UPMC Univ. Paris 06, UMR 7589, LPTHE, F-75005 Paris, France, ²CNRS, UMR 7589, LPTHE, F-75005 Paris, France, ³Department of Physics, Sungkyunkwan University, Suwon 440-746, Republic of Korea, ⁴Dept. of Physics & IPAP, Yonsei University, Seoul 03722, Republic of Korea, ⁵Korea Institute for Advanced Study (KIAS), Seoul 02455, Republic of Korea, ⁶Center for Theoretical Physics of the Universe, Institute for Basic Science, 34051 Daejeon, Republic)

E13.08 [15:36 - 15:48]

Ultra high energy cosmic ray as a probe of electroweak sphaleron / JHO Yongsoo¹, KANG Dong Woo^{1, 3}, PARK Seongchan^{1, 2}, ROTT Carsten³, SAKURAI Kazuki⁴ (¹Department of Physics, Yonsei University, ²Korea Institute for Advanced Study (KIAS), ³Department of Physics, Sungkyunkwan University, ⁴Department of Physics, University of Durham)

[E14-pa] Accelerator based particle physics experiments I

2016. 10. 20 Thursday 14:00 – 15:48

Room: # 305

좌장 : 천 병 구 한양대학교

Chair: CHEON Byung-Gu (Hanyang Univ.)

E14.01 [14:00 - 14:12]

원자핵건판 검출기를 이용한 중성미자 실험들 / 윤천실* (경상대학교)

E14.02 [14:12 - 14:24]

Study of $B \rightarrow D^{(*)} \tau \nu$ at Belle and other B-factories / KWON Youngjoon* (Department of Physics, Yonsei University)

E14.03 [14:24 - 14:36]

An Intriguing Burst from UFFO-pathfinder space telescope / 박일홍* (성균관대학교 물리학과)

E14.04 [14:36 - 14:48]

Measurement preparation for anti-Hydrogen (ion) production cross-section between anti-Proton beam and Positronium / KIM BongHo*, LEE Aram, KIM Sunkee (Seoul National University)

E14.05 [14:48 - 15:00]

Measurement of the cross section ratio $t\bar{t}b\bar{b}/t\bar{t}j\bar{j}$ using dilepton final states in pp collisions at 13 TeV / KIM Tae Jeong^{*1}, BROCHERO Javier¹, CHOI Suyong², JO Youngkwon², GOH Junghwan³ (¹Hanyang University,

²Korea University, ³Sungkyunkwan University)

E14.06 [15:00 - 15:12]

Measurement of Normalized Differential Cross Section for the $t\bar{t}b\bar{b}$ Production in the Dilepton Channel in pp Collisions at 13 TeV / ROH Youn Jung* (Department of Physics, Korea University)

E14.07 [15:12 - 15:24]

Recent results of higgs boson on/off-shell production and decay width using double W boson leptonic decay mode / 이상은* (경북대학교 물리학과)

E14.08 [15:24 - 15:36]

Search strategies for vector-like quark partners at LHC run-II / FLACKE Thomas Dieter* (Center for Theoretical Physics of the Universe (CTPU), IBS)

E14.09* [15:36 - 15:48]

Randall-Sundrum Type Microscopic Black Holes at the LHC / HWANG Chanwook^{*1}, YU Intae¹, PARK Seong Chan², GOH Junghwan¹, HYUN Young-Hwan¹, KANG Dong Woo¹, FROST James³ (¹Department of Physics, Sungkyunkwan University, ²Department of Physics & IPAP, Yonsei University, ³Department of Physics, The University of Oxford)

E [E15-nu] Pioneer: Recent Activities in Nuclear Physics with RI beams I

2016. 10. 20 Thursday 14:00 – 15:48

Room: # 306

좌장 : 권영관 기초과학연구원

Chair: KWON Young-Kwan (IBS)

E15.01(초) [14:00 - 14:36]

Fission properties of neutron-rich actinide nuclei using multi-nucleon transfer reactions / NISHIO Katsuhisa* (Japan Atomic Energy Agency)

E15.02(초) [14:36 - 15:12]

Nuclear Physics with Slow and Stopped Beams at RIBF / SCHURY Peter* (KEK Institute of Particle and Nuclear Studies, Wako Nuclear Science Center)

E15.03(초) [15:12 - 15:48]

Experimental study of density dependent nuclear symmetry energy by using heavy RI collision at RIBF-SPiRIT / ISOBE Tadaaki*
(RI physics laboratory, RIKEN)

E

SESSION F

2016 October 20(Thu) 16:00–17:48

[F1-st] Complex Systems

2016. 10. 20 Thursday 16:00 – 17:24

Room: # 201

좌장 : 김 범 준 성균관대학교

Chair: KIM Beom-Jun (Sungkyunkwan Univ.)

F1.01 [16:00 - 16:12]

Impact of Biased Edge Weights and Generalized Modularity for One-Mode Projection of Weighted Complete Networks / PARK Juyong* (Graduate School of Culture Technology, KAIST)

F1.02* [16:12 - 16:24]

The dynamics of the Olympic rivalry / CHOI Heidi Hye Seung, YANG Jae-Suk* (Moon Soul Graduate School of Future Strategy, KAIST)

F1.03 [16:24 - 16:36]

What does Big Data tell? Sampling the social network by communication channels / JO Hang-Hyun^{*1, 2}, TOROK Janos^{3, 4}, MURASE Yohsuke⁵, KERTESZ Janos^{2, 3, 4}, KASKI Kimmo² (¹Department of Physics, Pohang University of Science and Technology, Pohang 37673, Republic of Korea, ²Department of Computer Science, Aalto University School of Science, P.O. Box 15500, Espoo, Finland, ³Department of Theoretical Physics, Budapest University of Technology and Economics, Budapest H-1111,, ⁴Center for Network Science, Central European University, Budapest H-1051, Hungary, ⁵RIKEN Advanced Institute for Computational Science, Kobe, Hyogo 650-0047, Japan)

F1.04* [16:36 - 16:48]

Knowledge structure of nuclear fusion research / HONG Inho¹, KIM Hyunuk², JUNG Woo-Sung^{*1, 2} (¹Department of Physics, POSTECH, Korea, ²Department of Industrial and Management Engineering, POSTECH, Korea)

F1.05 [16:48 - 17:00]

Understanding the spatiotemporal patterns of geographic places in large-scale historical documents: The Annals of the Joseon Dynasty / LEE Byunghwee¹, KIM Kibum², KIM Daniel³, KIM Beom Jun², JEONG Hawoong^{*1, 4, 5} (¹Department of Physics, Korea Advanced Institute of Science and Technology, ²Department of Physics, Sungkyunkwan University, ³Natural Science Research Institute, Korea Advanced Institute of Science and Technology, ⁴Asia Pacific Center for Theoretical Physics, ⁵Institute for the BioCentury, Korea Advanced Institute of Science and Technology)

F1.06 [17:00 - 17:12]

Extension of group-based ranking system / LEE Daekyung, KIM Beom Jun* (Department of Physics Sungkyunkwan University)

F1.07* [17:12 - 17:24]

Analytic critical exponents featured by real fluids / CHO Wonyoung, KIM Do-Hyun*, PARK Jeong-Hyuck* (Department of Physics Sogang University)

[F2-te] Physics teaching

2016. 10. 20 Thursday 16:00 - 17:36

Room: # 204

좌장 : 조 광 희 조선대학교

Chair: JO Kwang-Hee (Chosun Univ.)

F2.01* [16:00 - 16:12]

고등학생들의 협력적 문제 해결 과정에서 나타나는 모형구성의 특징 / 이일, 유준희* (서울대학교 물리교육과)

F2.02 [16:12 - 16:24]

시선 추적 검사를 이용한 과학용어에 대한 친숙도와 문장 이해도와의 상관 분석 / 윤은정, 박윤배* (경북대학교)

F2.03 [16:24 - 16:36]

시스템 개념에 대한 대학생들의 인식과 적용 분석 / 지영래¹, 송진웅²
(¹서울대 BK21플러스 더불어 과학교육 사업단, ²서울대 물리교육과)

F2.04 [16:36 - 16:48]

20세기 초현실주의 미술을 통해 바라보는 현대물리학의 이해: 마그리트와 달리의 사례를 중심으로 / 조한국* (단국대학교 교양학부)

F2.05 [16:48 - 17:00]

중등물리교사 임용시험문항의 분야복합성 분석 / 조광희*, 김아람
(조선대학교 물리교육과)

F2.06 [17:00 - 17:12]

상대좌표계에서 구현된 HTML5 기반의 교육용 2차원 3체 문제 시뮬레이션 / 오원근* (충북대학교 물리교육과)

F2.07* [17:12 - 17:24]

Mechanical Snell's Law / 이준학, 김경훈, 김유래, 이정일* (고려대학교 물리학과)

F

F2.08 [17:24 - 17:36]

Totally Symmetric Isotropic Tensors / EE June-Haak, JUNG Dong-Won, KIM U-rae, LEE Jungil* (Department of Physics, Korea University)

[F3-se] Pioneer Symposium : Epitaxy-based self-assembled semiconductor nanostructures and their applications III

2016. 10. 20 Thursday 16:00 – 17:12

Room: # 208

좌장 : 송 진 동 한국과학기술연구원

Chair: SONG Jin-Dong (KIST)

F3.01(초) [16:00 - 16:24]

Fabrication and PL properties of a single Ge quantum dot embedded in a photonic crystal microcavity / MA Y. J.^{1,2}, ZENG C.³, ZHOU T.¹, FAN Y. L.¹, ZHONG Z.¹, YANG X. J.¹, XIA J. S.³, JIANG Z. M.*¹ (¹Department of Physics, Fudan University, Shanghai 200433, China, ²Chinese Academy of Sciences, Shanghai 200050, China, ³Huazhong University of Science and Technology, Wuhan 430074, China)

F3.02(초) [16:24 - 16:48]

Quantum dot cascade laser / LIU Feng-Qi*, ZHUO Ning, ZHANG Jinchuan, ZHAI Shenqiang, LIU Yinghui, LIU Shuman, LIU Junqi, WANG Lijun, WANG Zhanguo (Institute of Semiconductors, Chinese Academy of Sciences, Beijing, 100083, China)

F3.03(초) [16:48 - 17:12]

Temperature dependent photoluminescence quenching in GaP-InP lateral nanowires / KIM Yongmin^{*1}, SHIN Y. H.¹, SONG J. D.² (¹Dankook University, ²Korea Institute of Science and Technology)

[F4-ap] Focus session: Bio-Medical II

2016. 10. 20 Thursday 16:00 – 17:48

Room: # 209

좌장 : 이 태 린 서울대 차세대 융합기술연구원

Chair: LEE Tae-Rin (Seoul National Univ. AICT)

F4.01(초) [16:00 - 16:36]

Next-generation expansion microscopy / CHANG Jae-Byum* (Sungkyunkwan University)

F4.02(초) [16:36 - 17:12]

Application of Bionano Photonics for Early Disease Diagnosis / CHOO Jaebum* (Department of Bionano Engineering Hanyang University)

F4.03(초) [17:12 - 17:48]

프리모순환계와 광통신가설 / 소광섭* (서울대학교 차세대융합기술연구원)

[F5-ap] Focus session: Low-dimensional nanomaterials

2016. 10. 20 Thursday 16:00 – 17:36

Room: # 210

좌장 : 박 지 용 아주대학교

Chair: PARK Ji-Yong (Ajou Univ.)

F5.01(초) [16:00 - 16:24]

Selective synthesis of functional nanowires using laser processing

/ YEO Junyeob* (Department of Physics, Kyungpook National University)

F5.02(초) [16:24 - 16:48]

Sensing Thermal Properties in Nano-Energy Materials / LEE

Sangwook* (School of Materials Science and Engineering, Kyungpook National University)

F5.03(초) [16:48 - 17:12]

Real-time structural and electrical characterization of metal-insulator transition in VO₂ wires with modulating parameters

/ KIM M.-W., JO Y.-R., HA S.-S., KIM B.-J.* (School of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST))

F5.04(초) [17:12 - 17:36]

Modulation of electronic properties of 2D materials via

adsorbents / KIM Un Jeong^{*1}, CHUNG JaeGwan², SHIM Youngseon², ROH Young-Geun¹, PARK Yeonsang¹, LEE Si Young³, LEE Young Hee³, HWANG Sung Woo³ (¹Device Laboratory, Samsung Advanced Institute of Technology, ²Platform Technology Laboratory, Samsung Advanced Institute of Technology, ³Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University)

[F6-or] Biophysics: Structural Studies

2016. 10. 20 Thursday 16:00 – 17:36

Room: # 211

좌장 : 김 재 업 울산과학기술원

Chair: KIM Jae-Up (UNIST)

F6.01(초) [16:00 - 16:24]

XFELs in structural investigation of biological specimens / SONG

Changyong* (Department of Physics, POSTECH)

F6.02(초) [16:24 - 16:48]

Small Angle X-ray Scattering Studies on Structures of Biological Molecules in Solution / JIN Kyeong Sik* (Pohang Accelerator Laboratory, Pohang, South Korea)

F6.03(초) [16:48 - 17:12]

X-ray Crystallography Using a High Pressure Technique / KIM Chae Un* (Department of Physics, UNIST)

F6.04(초) [17:12 - 17:36]

Solving Near-Atomic Resolution Protein Structures using Single Particle Cryo-Electron Microscopy / HYUN Jaekyung* (Center for Electron Microscopy Research, Korea Basic Science Institute)

[F7-co] Materials genome

2016. 10. 20 Thursday 16:00 – 17:48

Room: # 212

좌장 : 정 석 민 전북대학교

Chair: JEONG Suk-Min (Chonbuk National Univ.)

F7.01(초) [16:00 - 16:36]

First-principles predictions of thermodynamically stable two-dimensional electrides / YOON Mina* (Center for Nanophase Materials Sciences, ORNL & Dept. of Physics and Astronomy, Univ. of Tennessee)

F7.02(초) [16:36 - 17:12]

Quantum Materials Genome in Strongly-Correlated Electron Oxides / LEE Jun Hee* (School of Energy and Chemical Engineering, UNIST)

F7.03(초) [17:12 - 17:48]

Computational search for lead-free halide perovskite solar cells / IM Jino* (Center for Molecular Modeling & Simulation, Korea Research Institute of Chemical Technology)

[F8-co] Pioneer: Inauguration Symposium of the PAL - X-ray Free Electron Laser : Ultrafast X-ray Science

2016. 10. 20 Thursday 16:00 – 17:48

Room: # 213

좌장 : 김 현 정 서강대학교

Chair: KIM Hyun-Jung (Sogang Univ.)

F8.01(초) [16:00 - 16:36]

The Linac Coherent Light Source: Status, Future and Perspectives / ROBERT Aymeric* (Science - Research & Development Division, Linac Coherent

Light Source, Linac Coherent Light Source, SLAC National Accelerator Laboratory, USA)

F8.02(초) [16:36 - 17:00]

Ultrafast ionization and fragmentation dynamics of molecules at high x-ray intensity / SON Sang-Kil* (Center for Free-Electron Laser Science (CFEL), DESY, Germany)

F8.03(초) [17:00 - 17:24]

Bragg Ptychography Imaging of Phase-Ordering Fe-Al Alloys / KIM Chan¹, CHAMARD Virginie², MADSEN Anders^{*1} (¹European X-Ray Free-Electron Laser, ²Institute Fresnel, ³Pusan University, ⁴ESRF - The European Synchrotron)

F8.04(초) [17:24 - 17:48]

Femtosecond imaging at near-atomic resolution and PAL-XFEL / SONG Changyong* (Department of Physics, POSTECH)

F

[F9-co] Focus session: Sample Growth in Condensed Matter Physics

2016. 10. 20 Thursday 16:00 – 17:36

Room: # 214

좌장 : 김 창 영 서울대학교

Chair: KIM Chang-Young (Seoul National Univ.)

F9.01(초) [16:00 - 16:24]

Grain boundary free 의 비밀과 단결정은행의 찾아가는 서비스 / 정세영* (부산대학교 나노과학기술대학 광메카트로닉스공학과)

F9.02(초) [16:24 - 16:48]

Single crystal growth of complex correlated electronic materials / KIM Kee Hoon* (Department of physics and astronomy)

F9.03(초) [16:48 - 17:12]

시료 합성과 단결정 성장 / 허남정* (인하대학교 물리학과)

F9.04(초) [17:12 - 17:36]

다금속과 칼코겐 화합물의 결정성장 및 열전재료 응용 / 이종수* (경희대학교 응용물리학과)

[F10] No session

[F11] No session

[F12-pl] Nuclear Fusion 1

2016. 10. 20 Thursday 16:00 – 17:12

Room: # 303

좌장 : 박 병 호 국가핵융합연구소

Chair: PARK Byoung-Ho (NFRI)

F12.01(초) [16:00 - 16:24]

Overview of KSTAR Experimental Results / PARK ByoungHo* (National Fusion Research Institute)

F12.02(초) [16:24 - 16:48]

Current Status of KSTAR Diagnostics / NAM YongUn* (National Fusion Research Institute)

F12.03 [16:48 - 17:00]

Identifying major factors for fuel retention behavior in KSTAR / CAO Bin, HONG Suk Ho* (NATIONAL FUSION RESEARCH INSTITUTE)

F12.04* [17:00 - 17:12]

Diagnosing impurity elements on the KSTAR divertor surface using LIBS technique / KIM Minju, CHO Min Sang, CHO Byoung-ick* (Department of physics and photon science, GIST)

[F13-pa] Particle physics theory II

2016. 10. 20 Thursday 16:00 – 17:48

Room: # 304

좌장 : 이 강 영 경상대학교

Chair: LEE Kang-Young (Kyeongsang National Univ.)

F13.01 [16:00 - 16:12]

A very light dilaton and scale-invariant Higgs / HONG Deog Ki* (Department of Physics, Pusan National University)

F13.02 [16:12 - 16:24]

Degenerate Higgsino Dark Matter / CHUN Eung Jin², JUNG Sunghoon³, PARK Jong-Chul^{*1} (¹Chungnam National University, ²KIAS, ³SLAC)

F13.03 [16:24 - 16:36]

Phases of light dark matter and self-interactions / CHOI Soo-Min, LEE Hyun Min* (Chung-Ang University)

F13.04* [16:36 - 16:48]

Collider and astrophysical probes of dark matter with mediators / KANG Yoo-Jin, CHOI Soo-Min, LEE Hyun Min* (Chung-Ang University)

F13.05 [16:48 - 17:00]

Thermal effect on the co-annihilation of heavy particles / KIM Seyong* (Department of Physics Sejong University)

F13.06* [17:00 - 17:12]

Perturbative calculation of Z_q and Z_m at the one-loop level using improved staggered quarks / CHOI Benjamin Jaedon¹, LEE Weonjong^{*1}, KIM Jangho², PARK Sungwoo¹ (¹Department of Physics and Astronomy, Seoul National University, ²Department of Physics, Bielefeld University)

F

F13.07 [17:12 - 17:24]

Heavy-heavy quark current improvement for calculation of semi-leptonic form factors using the Oktay-Kronfeld quark. / LEEM Jaehoon¹, BAILEY Jon¹, LEE Weonjong^{*1}, JANG Yong-Chull² (¹Seoul National University, ²Los Alamos National Laboratory, USA)

F13.08 [17:24 - 17:36]

Tuning of Oktay-Kronfeld action for heavy quarks / Sungwoo Park¹, Weonjong Lee^{*1}, Yong-Chull Jang^{*2}, Boram Yoon², Rajan Gupta^{*2}, Jaehoon Leem¹ (¹Seoul National University, ²Los Alamos National Laboratory, Theoretical Division T-2)

F13.09* [17:36 - 17:48]

Neutrinoless Double Beta Decay and Sterile Neutrinos / JANG Changhwan*, KIM Bongjun, KO Youngju, SIYEON Kim (Department of Physics Chung-Ang University)

[F14-pa] Accelerator based particle physics experiments II

2016. 10. 20 Thursday 16:00 – 17:36

Room: # 305

좌장 : 김 동 희 경북대학교

Chair: KIM Dong-Hee (Kyungpook National Univ.)

F14.01* [16:00 - 16:12]

Drell-Yan Differential Cross Section Measurement in Dimuon

Channel at 13TeV with the CMS Detector / LEE Kyeongpil, NAM Kyungwook, YOO Hwidong* (Seoul National University)

F14.02* [16:12 - 16:24]

Search for High-mass Resonances in Z(II)gamma Final State at CMS / NAM Kyungwook*, LEE Kyeongpil, YOO Hwidong (Seoul National University)

F14.03 [16:24 - 16:36]

Search for leptophobic Z' decaying into four leptons in the final state at 8 TeV / 유휘동* (서울대학교 물리천문학부)

F14.04* [16:36 - 16:48]

A study of Initial State Gluon Radiation on the Drell-Yan process in LHC at $\sqrt{s}=8$ & 13 TeV / 최준호*, 김준호, 박재균, 유금봉, John Leslie Almond, 양운기* (서울대학교 물리천문학부)

F14.05* [16:48 - 17:00]

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

F14.06* [17:00 - 17:12]

Search for Heavy Neutrinos in the Di-lepton Events at $\sqrt{s}=13$ TeV Using the CMS Detector / 이한얼*, 오성빈*, 김재성*, 전시현*, 유금봉*, John Leslie Almond*, 서선희*, 양운기* (서울대학교 물리천문학부)

F14.07 [17:12 - 17:24]

Search for $H \rightarrow c\bar{c}$ in lepton+jets channel using top quark pair events / YU Geum Bong*, JWA Yeon-jae, YANG Un-ki, ALMOND John (Department of Physics and Astronomy Seoul National University)

F14.08* [17:24 - 17:36]

Search for $H \rightarrow A W$ in 13 TeV CMS data / BHYUN Jihwan, YU Geumbong, ALMOND John Leslie, YANG Unki* (Department of Physics and Astronomy, Seoul National University)

E [F15-nu] Pioneer: Recent Activities in Nuclear Physics with RI beams II

2016. 10. 20 Thursday 16:00 – 17:48

Room: # 306

좌장 : 채 경 욱 성균관대학교

Chair: CHEA Kyung-Yuk (Sungkyunkwan Univ.)

F15.01(초) [16:00 - 16:36]

New energy-degraded-beam project at RIBF - OEDO project - / MICHIMASA Shinichiro* (Center for Nuclear Study, University of Tokyo)

F15.02(초) [16:36 - 17:00]

The study of structures in ^{18}Ne and ^{19}Ne for understanding the break-out process / KIM Aram (Ewha Womans University)

F15.03(초) [17:00 - 17:24]

Mass distribution of quasi-fission fragments at heavy element synthesis / KIM Kyungil* (Institute for Basic Science)

F15.04(초) [17:24 - 17:48]

Development of Multiple reflection time of flight mass spectrograph in RAON / MOON Junyoung^{*1}, PARK Young-Ho¹, SHIN Taeksu¹, KWON Youngkwan¹, MIYATAKE Hiroari², WADA Michiharu^{2, 3}, SCHURY Peter², ITO Yuta³, ROSENBUSCH Marco³ (¹Institute for basic science, ²Institute of Particle and Nuclear Studies (IPNS), High Energy Accelerator Research Organization (KEK), ³RIKEN Nishina Center)

F

SESSION G

2016 October 21(Fri) 09:00-10:48

[G1-or] Biophysics: Theory

2016. 10. 21 Friday 09:00 - 10:36

Room: # 201

좌장 : 현 창 봉 고등과학원

Chair: HYEON Chang-Bong (KIAS)

G1,01(초) [09:00 - 09:24]

A Levy walk model for mRNA transport in neurons / 송민호²,

문형석², 전재형¹, 박혜윤² (¹포스텍 물리학과, ²서울대학교 물리천문학부)

G1,02(초) [09:24 - 09:48]

Charged biomolecules in water / JHO YongSeok* (IBS-CSLM)

G1,03(초) [09:48 - 10:12]

Elasticity of semiflexible biopolymers subject to contour forces /

BENETATOS Panayotis* (Department of Physics, Kyungpook National University)

G1,04(초) [10:12 - 10:36]

WLC model and beyond in Biology / LEE Nam-Kyung* (Department of Physics, Sejong University)

[G2-op] Lasers & applications

2016. 10. 21 Friday 09:00 - 10:36

Room: # 204

좌장 : 이 성 구 광주과학기술원

Chair: LEE Seong-Ku (GIST)

G2,01 [09:00 - 09:12]

Current Status of X-ray Scattering and Spectroscopy Beamline at

PAL-XFEL / 김수남*, 이재혁, 구태영, 김용삼 (포항공대속기 연구소)

G2,02* [09:12 - 09:24]

탠덤 펌핑 Yb 광섬유 레이저 / 정예지^{1,2}, 전민지^{1,2}, 정훈², 김지원¹ (¹한양대학교 응용물리학과, ²한국생산기술연구원)

G2,03* [09:24 - 09:36]

Study of mode-locked Yb:KYW planar waveguide laser by an extended cavity configuration / 김준완¹, 최선영², S. Aravazhi³, M. Pollnau⁴, 안광준¹, 염동일¹, 이상민⁵ (¹아주대학교 물리학과 & 에너지시스템학과,

²Institut für Laser-Physik, Universität Hamburg, Germany, ³MESA+ Institute for Nanotechnology, University of Twente, The Netherlands, ⁴School of Information

and Communication Technology, KTH – Royal Institute of Technology, Sweden,
*한국과학기술원 물리학과)

G2.04* [09:36 - 09:48]

펄스 빔 크기에 따른 Er:Yb:Glass laser 출력 특성 / 채동원, 조영훈, 성준영,
나은주, 김현수* (조선대학교 광기술공학과)

G2.05* [09:48 - 10:00]

~6 kW 첨두 출력의 고출력 준연속 Yb 광섬유 레이저 / 전민재^{1,2}, 정예지^{1,2},
서홍석³, 김지원², 정훈^{*1} (¹한국생산기술연구원, ²한양대학교 응용물리학과, ³한국전
자통신연구원)

G2.06 [10:00 - 10:12]

**Monolayer graphene Q-switched channel waveguide lasers
in three different laser configurations /** KIM Mi Hye¹, CALMANO
Thomas², CHOI Sun Young², LEE Byung Jic³, BAEK In Hyung¹, AHN Kwang
Jun³, YEOM Dong-Il³, KRANKEL Christian², ROTERMUND Fabian⁴, JEONG
Young Uk^{*1} (¹한국원자력연구원 양자빔기반방사선연구센터, ²함부르크대학교,
³아주대학교 에너지시스템학과, ⁴한국과학기술원 물리학과)

G2.07* [10:12 - 10:24]

공간 세기 분포 조절 고출력 MOPA 레이저 시스템 / 노승현, 김동준,
김지원* (한양대학교 응용물리학과)

G2.08* [10:24 - 10:36]

**Modeling and Analysis of the Influence of the Pulse Overlap in a
Double-pass Laser Amplifier /** 정지훈, 조세례요한, 유태준* (한동대학교
첨단그린에너지환경학과)

[G3-se] Low dimensional nano-materials I

2016. 10. 21 Friday 09:00 – 10:48

Room: # 208

좌장 : 이 신 범 대구경북과학기술원

Chair: LEE Shin-Buhm (DGIST)

G3.01(초) [09:00 - 09:24]

**Vapor phase synthesis of 2D tin sulfides and device applications
/** AHN Ji-Hoon* (Department of Electronic Material Engineering, Korea Maritime
and Ocean University)

G3.02* [09:24 - 09:36]

**Tip-Enhanced Raman Scattering Studies of Monolayer Tungsten
Disulfide /** LEE Chanwoo¹, JEONG Byeong Geun¹, YUN Seok Joon^{1,2},
LEE Young Hee^{1,2,3}, JEONG Mun Seok^{*1,2} (¹Department of Energy Science,

Sungkyunkwan University, ²Center for Integrated Nanostructure Physics (CINAP), Institute for Basic Science (IBS), ³Department of Physics, Sungkyunkwan University)

G3.03* [09:36 - 09:48]

Laser-exfoliation of Few-layer Transition Metal Dichalcogenides by High Power Femtosecond Laser / 안성진^{1, 2}, 김용환^{1, 2}, 김지희², 정문석^{*1, 2} (¹Department of Energy Science, Sungkyunkwan University, ²Center for Integrated Nanostructure Physics (CINAP), Institute for basic Science (IBS), Suwon 16419,)

G3.04* [09:48 - 10:00]

The Integrity of Insulating Boron Nitride for Gate Dielectric of Metal Dichalcogenides Transistors / CHU Dongil, KIM Eun Kyu* (Department of Physics Hanyang University)

G3.05 [10:00 - 10:12]

Photochemical Reaction in Monolayer MoS₂ via Correlated Photoluminescence, Raman Spectroscopy, and Atomic Force Microscopy / 오혜민¹, 정문석^{*1, 2}, 이영희^{*1, 2, 3}, 한강희¹, 김현^{1, 2}, 배정준¹ ('나노구조물리 연구단, 성균관대학교, ²성균관대학교 에너지과학, ³성균관대학교 물리학과)

G3.06* [10:12 - 10:24]

Laser irradiation time-dependent charge carrier dynamics in Methylammonium lead halide single crystals / BYUN Hye Ryung^{1, 2}, JEONG Mun Seok^{*1, 2}, NAMKOONG Gon³ (¹Department of Energy Science Sungkyunkwan University, ²Center for Integrated Nanostructure Physics Institute for basic Science, ³Department of Electrical and Computer Engineering Old Dominion University)

G3.07* [10:24 - 10:36]

Raman scattering study of cation effect on vibration modes in CH₃NH₃PbBr₃ single crystals / NGUYEN Trang Thi Thu¹, JUNG Hye Ri¹, JO William¹, WOO Won Seok², AHN Chang Won², CHO Shinuk², KIM Ill Won², YOON Seokhyun Yoon^{*1} (¹Department of Physics, Ewha Womans University, ²Department of Physics and Energy Harvest-Storage Research Center, University of Ulsan)

G3.08 [10:36 - 10:48]

Design of broadband antireflection coatings for multi-layered GaAs/AlGaAs solar cells / 오규진¹, 김영호², 이상준², 김은규^{*1} ('한양대학교 물리학과, ²한국표준과학연구원)

[G4-co] Magnetism

2016. 10. 21 Friday 09:00 – 10:12

Room: # 209

좌장 : 정 종 울 충남대학교

Chair: JEONG Jong-Ryul (Chungnam National Univ.)

G4.01* [09:00 - 09:12]

Ultrafast demagnetization of ferromagnetic layered thin film /

김영재, 이재동* (대구경북과학기술원(DGIST) 신물질과학전공)

G4.02 [09:12 - 09:24]

Electron beam-formed ferromagnetic defects on MoS₂ surface along 1T phase transition / 한상욱, 홍순철* (울산대학교)

G4.03* [09:24 - 09:36]

Neel order and ordinary spin-orbit torques in two dimensional antiferromagnets / 천수익, 이현우* (포항공과대학교 물리학과)

G4.04 [09:36 - 09:48]

Correlation between Orbital Magnetism and Dzyaloshinskii-Moriya Interaction / KIM Sanghoon^{*1}, UEDA Kohei¹, GO Gyungchoon², JANG Pyung-Hwa², LEE Kyung-Jin², BELABBES Abderrezak³, MANCHON Aurelien³, YAMADA kihiro¹, SUZUKI Motohiro⁴, KOTANI Yoshinori⁴, NAKAMURA Tetsuya⁴, NAKAMURA Kohji⁵, KOYAMA Tomohiro⁶, CHIBA Daichi⁶, MORIYAMA Takahiro¹, KIM Kab-Jin¹, ONO Teruo^{*1} (¹Institute for Chemical Research, Kyoto University, ²Department of Materials Science & Engineering, Korea University, ³Core Labs, King Abdullah University of Science and Technology (KAUST), ⁴Japan Synchrotron Radiation Research Institute (JASRI/SPring-8), ⁵Department of Physics Engineering, Mie University, ⁶Department of Applied Physics, Faculty of Engineering, The University of Tokyo)

G4.05 [09:48 - 10:00]

Physical properties of (Sr,La)(Ru,Fe)O₃ epitaxial thin film / DASH Umasankar, JUNG Chang Uk* (Department of Physics and Oxide Research Centre, Hankuk University of Foreign Studies, Yongin 17035)

G4.06 [10:00 - 10:12]

Quantum mechanical force of nanomagnets containing a torsional nanoresonator / KIM GWANG-HEE* (Department of Physics and Astronomy, Sejong University)

[G5-ap] 2D: Graphene/Chalcogenide

2016. 10. 21 Friday 09:00 – 10:48

Room: # 210

좌장 : 이 상 욱 이화여자대학교

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

G5.01* [09:00 - 09:12]

Large scaled graphene Hall elements array on Hexagonal-BN film fabricated following a conventional CMOS process / 김중규^{1,2}, 주민규¹, 박지훈¹, Van Luan Nguyen¹, 김기강³, 서동석^{*2} (¹성균관대학교 나노구조물리 연구단 (CINAP), 기초과학연구원 (IBS), ²성균관대학교 에너지과학과, ³동국대학교 융합에너지신소재공학과)

G5.02* [09:12 - 09:24]

Graphene-silver nanowire transparent electrode for high performance ultra-violet light emitting diodes / 민경현^{1,2}, 서태훈², 이건희¹, 여동규^{1,2}, 김희수^{1,2}, 김명종^{*2}, 서은경^{*1} (¹전북대학교 반도체 화학공학부, ²한국과학기술연구원)

G5.03* [09:24 - 09:36]

Cu-graphene oxide nano-composite microfiber / KIM Hyuk Joon^{1,2}, JO Sang Hun², YEO Chang Su¹, YOO Jee Young², SHIN Min Kyoan¹, KIM Yoon Sang^{1,2}, PARK Sang Yoon^{*1} (¹Nano Bio Convergence Research Center, Advanced Institute of Convergence Technology, ²Graduate School of Convergence Science and Technology, Seoul National University)

G5.04* [09:36 - 09:48]

Towards a reusable graphene mass detector / MCALLISTER Kirstie, LEE Sang Wook* (Department of Physics, Ewha Womans University)

G5.05* [09:48 - 10:00]

Electrical properties of single wall carbon nanotube channel and graphene electrode based transistors arrays / 서미리, 이상욱* (이화여자대학교 물리학과)

G5.06* [10:00 - 10:12]

Plasma Assisted Synthesis of SnS₂-SnS Heterostructure p-n Diode / KIM Jung Ho^{1,2}, YUN Seok Joon^{1,2}, LEE Young Hee^{*1,2} (¹Center for Integrated Nanostructure Physics, Institute of Basic Science(IBS), ²Department of Energy Science, Sungkyunkwan University)

G5.07 [10:12 - 10:24]

Optoelectronic applications of multilayered transition metal dichalcogenides: Flexible, transparent, and photo-sensing devices

/ HONG Young Ki*, KIM Sunkook (Department of Electronics and Radio Engineering, Kyung Hee University)

G5.08* [10:24 - 10:36]

Raman study of stacking order in 2-dimensional GaSe / 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)

G5.09* [10:36 - 10:48]

Oxidation Effect in Thin Octahedral Hafnium Disulfide (HfS₂) / JIN Youngjo^{1, 2}, LEE Young Hee^{*1, 2} (¹Center for Integrated Nanostructure Physics, Institute for Basic Science, ²Department of Energy Science, Sungkyunkwan University)

[G6-ap] Nanomaterials/Device

2016. 10. 21 Friday 09:00 – 10:48

Room: # 211

좌장 : 이 민 백 인하대학교

Chair: LEE Min-Baek (Inha Univ.)

G6.01* [09:00 - 09:12]

Study of extraordinary optical transmission in Ag nano-hole array through surface plasmon dispersion / SONG Bokyoung, HAN Seung-Hoon, CHO Chang-Hee* (Department of Emerging Materials Science, DGIST)

G6.02 [09:12 - 09:24]

Mechanical Properties of High-Stress Silicon Nitride Beam Resonators / SHIN Dong Hoon¹, KIM Hakseong², MCALLISTER Kirstie¹, SEO Miri¹, LEE Sangik³, PARK Bae Ho³, LEE Sang Wook^{*1} (¹Department of Physics, Ewha Womans University, ²Korea Research Institute of Standards and Science (KRISS), ³School of Physics, Konkuk University)

G6.03 [09:24 - 09:36]

Electrical transport properties of BiFeO₃ nano-islands / 전지훈¹, 최택집², 이덕현¹, 기은희¹, 오광택¹, 박배호^{*1} (¹건국대학교 물리학과, ²세종대학교 나노신소재공학과)

G6.04* [09:36 - 09:48]

산화 티타늄 박막의 균질성 전이 연구 / 이창묵, 최재우* (경희대학교 정보디스플레이학과)

G6,05 [09:48 - 10:00]

Mechanical transduction of magnetization precession via the Wiedemann effect / CHO Sung Un*, CHO Myung Rae, PARK Yun Daniel (Department of Physics and Astronomy, Seoul National University)

G6,06* [10:00 - 10:12]

Synaptic plasticity, learning and memory function in ferroelectric tunnel junction. / Chansoo Yoon, Ji Hye Lee, Sangik Lee, Jihoon Jeon, Jun Tae Jang, Dae Hwan Kin, Young Heon Kim, Bae Ho Park* (Division of Quantum Phases & Devices, Department of Physics, Konkuk University)

G6,07* [10:12 - 10:24]

Temperature dependent negative differential resistance behavior at Pt/Nb:SrTiO₃ interface / KIM Yeon Soo¹, HWANG Sung Moon², YALISHEV Vadim Sh.³, JEON Jihoon¹, LEE Mi Jung¹, YULDASHEV Shavkat U.³, CHOI Taekjip², PARK Bae Ho*¹ (¹Division of Quantum Phases & Devices, Department of Physics, Konkuk University, ²HMC, Department of Nanotechnology and Advanced materials engineering, Sejong University, ³Quantum-Functional Semiconductor Research Center, Dongguk University)

G6,08* [10:24 - 10:36]

Manufacturing of coffee grounds foaming ceramics for LED heatsink / LEE Joo Hyun, LEE Yoo Jin, YANG Hyun Kyoung* (Department of LED Convergence Engineering Pukyong National University)

G6,09* [10:36 - 10:48]

Evaluation of Applicability Using EM pump as Assistant Tool for the Circulation of LBE in the SMFBR / KWAK Jaesik, KIM Hee Reyoung* (School of Mechanical and Nuclear Engineering, Ulsan National Institute of Science and Technology)

[G7-co] Computational condensed matter

2016. 10. 21 Friday 09:00 – 10:24

Room: # 212

좌장 : 김 승 철 한국과학기술연구원

Chair: KIM Seun-Chul (KIST)

G7,01 [09:00 - 09:12]

Unfolding the band structure of one-dimensional nanostructures within density function theory framework / 김성현*, 장기주 (KAIST 물리학과)

G7,02 [09:12 - 09:24]

Avoiding performance loss from dynamic polymorphism / YANG

ChangMo*, LEE Geunsik*, KIM Kwang S. (Center for Superfunctioning Materials, UNIST)

G7.03 [09:24 - 09:36]

Carrier-Induced Frenkel Pair Formation and Nonradiative Recombination in InGaN Light-Emitting Devices: A First-Principles Study / 방준혁^{*1}, Yiyang Sun², 송정훈³, Shengbai Zhang²
(¹한국기초과학지원연구원 스핀공학물리연구팀, ²Rensselaer Polytechnic Institute 물리학과, ³공주대학교 물리학과)

G7.04 [09:36 - 09:48]

50-Facet Cu₂O Nanocrystals Coated with CuO Nanoparticles: Trapped CO and O₂ Assisted Near-Perfect CO Oxidation / 이호식¹, Ahmad M. Harzandi², Jitendra N. Tiwari², HimChan Jeon⁴, 조우종², 이근식², 백재윤³, 곽자훈⁴, 김광수^{*2} (¹울산과학기술원 기계원자력공학부, ²울산과학기술원 화학과, ³포항공과대학교 가속기연구소, ⁴울산과학기술원 에너지 및 화학공학부)

G7.05 [09:48 - 10:00]

Predictive continuum model of gas uptake for inhomogeneous fluids / IHM Yungok^{*1,2}, MORRIS James R³, COOPER Valentino R³, VLCEK Lukas³, CANEPA Pieremanuele⁴, THONHAUSER Timo⁴ (¹Department of Chemistry, POSTECH, ²Department of Materials Science & Engineering, University of Tennessee at Knoxville, ³Material Science & Technology Division, Oak Ridge National Laboratory, ⁴Department of Physics, Wake Forest University)

G7.06 [10:00 - 10:12]

First-principles calculations of contacts between the group 13 metals and carbon nanotubes / JANG Seunghun^{*1}, IM Jino¹, CHOI Min¹, LEE Jeong-O², KONG Ki-jeong¹, CHANG Hyunju¹ (¹Chemical Infrastructure Division Korea Research Institute of Chemical Technology, ²Advanced Material Division Korea Research Institute of Chemical Technology)

G7.07 [10:12 - 10:24]

A van der Waals density functional study of interlayer interaction and phase stability in layered transition metal dichalcogenides MTe₂ (M=Mo, W) / 김현중¹, Ikutaro Hamada², 손영우^{*1} (¹School of Computational Sciences, Korea Institute for Advanced Study, Korea, ²National Institute for Materials Science, Japan)

[G8-ap] Biophysics

2016. 10. 21 Friday 09:00 – 10:24

Room: # 213

좌장 : 김 하 진 울산과학기술원

Chair: KIM Ha-Jin (UNIST)

G8.01* [09:00 - 09:12]

3-D Gold Nanoparticle Distribution Imaging in Living Cells using Optical Diffraction Tomography / 김도연^{1, 2}, 오누리³, 김규현¹, 윤종희¹, 박지호³, 박용근^{*1, 2} (¹한국과학기술원 물리학과, ²Tomocube, ³한국과학기술원 바이오및뇌공학과)

G8.02 [09:12 - 09:24]

Towards the plasmonic optical nano-bio sensor for single molecule analysis / 최성수^{*}, 박명진¹, 한철희¹, 오세중¹, T. Yamaguchi¹, 김용상², 박남규³ (¹선문대학교 나노과학기술연구소, ²성균관 대학교 전기전자공학부, ³서울대학교 전자공학부)

G8.03* [09:24 - 09:36]

Osteogenic differentiation of human mesenchymal stem cells in 3D cell culture system using real-time monitoring capacitance sensor / SONG Jun Ho¹, LEE Sun-Mi², HAN Nalae¹, YOO Kyung-Hwa^{*1, 2} (¹Department of Physics, Yonsei University, ²Nanomedical Graduate Program, Yonsei University)

G8.04* [09:36 - 09:48]

일차원 입자 관측을 위한 이중 이미지 추적 / 고기현¹, 허승진², 조종희¹, 유양석¹, 김민관², 박충현¹, 조용훈^{*1} (¹한국과학기술원 물리학과, ²한국과학기술원 나노과학기술대학원)

G8.05 [09:48 - 10:00]

A Calculation of Radiation Damage to Tumor Cell in BNCT / LIU Dong^{1, 2}, WOO Jong-Kwan^{*1}, KO Jewou¹ (¹Medical Physics Laboratory, Department of Physics, Jeju National University, ²Proton Therapy Center, National Cancer Center)

G8.06 [10:00 - 10:12]

넓은 면적에서 균일하며 높은 증강을 보이는 금속 나노 갭 구조의 SERS 특성 / 이종민^{*1}, 홍찬우², 사미르¹, 안현주¹, 정혁¹, 장유동¹, 윤일선², 이동한¹ (¹충남대학교 물리학과, ²충남대학교 화학과)

G8.07 [10:12 - 10:24]

Label-free biosensor using a bio-hybrid polymer nanowire / 김석호, 이호진, 박동혁^{*} (인하대학교 유기응용재료공학과)

[G9-co] Surface/Interface/Nanomaterials I

2016. 10. 21 Friday 09:00 – 10:24

Room: # 214

좌장 : 서 정 필 대구경북과학기술원

Chair: SEO Jung-Pil (DGIST)

G9.01(초) [09:00 - 09:24]

Ultimate 2D limit of metallic indium overlayers on Si(111) / PARK Jaewhan, KANG Myungho* (Department of Physics, Pohang University of Science and Technology)

G9.02* [09:24 - 09:36]

Edge reconstruction and local electronic structure of ultrathin Bi(110) nanoribbon / 양우일^{1, 2}, 염한웅^{*1, 2} (¹Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science (IBS), ²Department of Physics, Pohang University of Science and Technology (POSTECH))

G9.03* [09:36 - 09:48]

STM study on p-type characteristics of SnSe / TRINH Thi Ly¹, GANBAT Duvjir¹, LEE Jaekwang², MIN taewon², KIM Taehoon¹, DUONG Anh Tuan¹, CHO Sunglae¹, RHIM S.H.¹, KIM Jungdae^{*1} (¹Department of Physics, BRL, and EHSRC, university of Ulsan, ²Department of Physics, Pusan National University)

G9.04 [09:48 - 10:00]

Probing quantum spin nature of helical magnetic order in Fe nanoislands / PHARK Soo-hyon* (Korea Research Institute of Standards and Science)

G9.05* [10:00 - 10:12]

Detailed Atomic Reconstruction of Extended Line Defects in Monolayer MoS₂ / LEE Sungwoo¹, WANG Shanshan², PARK Hwanyeo¹, YOON Euijoon¹, WARNER Jamie H.², LEE Gun-Do^{*1} (¹Department of Materials Science and Engineering, Seoul National University, ²Department of Materials, University of Oxford)

G9.06* [10:12 - 10:24]

Influence of surface chemical state of ITO films on wettability and antibacterial effect / KIM Ji Woong¹, LEE Dooyong¹, SONG Sehwan¹, CHO Sam Yeon², BAE Jong-Seong³, KIM Wanyeon⁴, YOUN BuHyun⁴, KIM Yangdo⁵, LEE Jeong-Soo⁶, BU Sang Don², PARK Sungkyun^{*1} (¹Department of Physics Pusan National University, ²Department of Physics Chonbuk National University, ³Busan Center Korea Basic Science Institute, ⁴Department of Biological Sciences Pusan National University, ⁵Department of Materials Science and Engineering Pusan National University, ⁶Neutron Instruments Division Korea Atomic Energy Research Institute)

[G10-as] Astrophysics Experiment

2016. 10. 21 Friday 09:00 – 10:48

Room: # 301

좌장 : 이 직 성균관대학교

chair: LEE Jik (Sungkyunkwan Univ.)

G10.01(초) [09:00 - 09:36]

Cluster experiment for TGF investigation / VEDENKIN N.^{*1}, POZANENKO A.², MINAEV P.², VYBORNOV V.², GAYKOV G.¹ (¹Sungkyunkwan University, ²Space Research Institute of Russian Academy of Sciences)

G10.02(초) [09:36 - 10:12]

Status of UFFO-pathfinder in space, and an interesting event / JEONG Soomin^{1,2,3}, PARK II H.^{*1,2} - On behalf of the UFFO collaboration^{1,2} (¹Institute of Science and Technology in Space, Sungkyunkwan University, Suwon, Korea, ²Department of Physics, Sungkyunkwan University, Suwon, Korea, ³Instituto de Astrfísica de Astronomia - CSIC, Granada, Spain)

G10.03* [10:12 - 10:24]

Finding position and FOV of UFFO-p(Ultra-fast Flash Observatory pathfinder) / JEONG Hyomin, JEONG Soomin, KIM Minbin, GAIKOV Georgii, LEE Jik, PARK II H.* (Department of Physics Sungkyunkwan University)

G10.04* [10:24 - 10:36]

The study on x-ray response of UBAT of UFFO/Lomonosov in Space / KIM Min Bin¹, JEONG Hyomin¹, JEONG Soomin^{1,2,3}, GAIKOV Georgii¹, LEE Jik¹, PARK II H.^{*1} (¹Department of Physics, Sungkyunkwan University, ²Institute of Science and Technology in Space, Sungkyunkwan University, ³Instituto de Astrofísica de Andalucía (IAA-CSIC))

G10.05 [10:36 - 10:48]

First space tests of Slewing Mirror Telescope / GAIKOV Georgii, PARK II H.* (Department of Physics Sungkyunkwan University)

[G11] No session

[G12-pl] Basic plasmas, Accelerator & Beam

2016. 10. 21 Friday 09:00 – 10:48

Room: # 303

좌장 : 전 동 오 기초과학연구원

Chair: JEON Dong-O (IBS)

G12.01(초) [09:00 - 09:24]

Extreme UV burst, particle heating, and whistler waves in magnetic reconnection associated with Rayleigh-Taylor instability / CHAI Kil-Byoung^{*1,2}, BELLAN Paul M¹ (¹Applied Physics and Materials Science, Caltech, ²Nuclear Data Center, Korea Atomic Energy Research Institute)

G12.02 [09:24 - 09:36]

중이온가속기 빔진단시스템 구축현황 / 정연세*, 김기동*, 우형주* (기초과학연구원 중이온가속기건설구축사업단)

G12.03 [09:36 - 09:48]

Error Analysis in RISP SCL3 / JANG Ji-Ho*, JEON Dong-O, JIN Hyunchang (RISP, IBS)

G12.04 [09:48 - 10:00]

Control System and Low Temperature Test for Half-Wave Resonator Cryomodule / KIM Heetae*, KIM Youngkwon, LEE Min Ki, JO Yong Woo, CHOI Jong Wan, KIM Wookang (Institute for Basic Science)

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G12.05* [10:00 - 10:12]

Scaling and universal law for microplasma breakdown at high-frequency / LEE Min Uk¹, LEE Jae koo^{*1}, YUN Gunsu^{*1,2} (¹Division of Advanced Nuclear Engineering, Pohang University of Science and Technology, ²Max Planck-POSTECH Center for Attosecond Science)

G12.06 [10:12 - 10:24]

Controlling transverse dynamics of the laser pulse and the electron bunch in laser wakefield acceleration / PATHAK Vishwa Bandhu¹, 김철민², SILVA Luis O³, 남창희^{*1} (¹기초과학연구원 초강력레이저연구단, ²광주과학기술원 고등광기술연구소, ³Group of Laser and Plasma-IPFN, Instituto Superior Tecnico, Lisbon, Portugal)

G12.07 [10:24 - 10:36]

Electron Acceleration by the Self-phase Locking in Laser Wakefield Acceleration / 조명훈¹, vishwa bandhu pathak¹, 김형택², 남창희^{*1} (¹기초과학연구원 초강력레이저연구단, ²광주과학기술원 고등광기술연구소)

G12.08 [10:36 - 10:48]

Characteristics of laser-driven electrostatic shock ion acceleration depending on a laser polarization / 김영국, 강태연, 허민섭* (UNIST)

E [G13-pa] Pioneer: Status of Deep Underground Neutrino Experiment

2016. 10. 21 Friday 09:00 – 10:36

Room: # 304

좌장 : 권 영 준 연세대학교

Chair: KWON Young-Joon (Yonsei Univ.)

G13,01(초) [09:00 - 09:36]

The Deep Underground Neutrino Experiment (DUNE) at Long Baseline Neutrino Facility (LBNF): An ultimate neutrino oscillation experiment / JUNG Chang Kee* (Department of Physics, State University of New York at Stony Brook)

G13,02(초) [09:36 - 10:12]

ProtoDUNE-SP: a 0.77 kt single phase LArTPC detector in the CERN Neutrino Platform test beam / KUTTER Thomas* (Department of Physics & Astronomy, Louisiana State University)

G13,03(초) [10:12 - 10:36]

Measuring leptonic CP violation and neutrino mass ordering in long baseline experiments. / KANG Sin Kyu* (School of Liberal Arts, Seoul-Tech)

[G14-pa] Accelerator based particle physics experiments III

2016. 10. 21 Friday 09:00 – 10:48

Room: # 305

좌장 : 이 상 훈 서울시립대학교

Chair: LEE Jason Sanghun (Univ. of Seoul)

G14,01(초) [09:00 - 09:24]

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

G14,02 [09:24 - 09:36]

Study of with conversion of Belle's data to Belle II's data format / KWON Youngjoon*, PARK Chanseok (Department of Physics Yonsei University)

G14,03* [09:36 - 09:48]

Muon identification for CMS upgrade / JEON Dajeong, LEE Jason Sanghun*, PARK Inkyu* (University of Seoul)

G14,04 [09:48 - 10:00]

Storage Ring EDM Experiment and Polarimeter Development at CAPP/IBS / PARK Seongtae* (CAPP/IBS)

G14.05* [10:00 - 10:12]

The Test of Low-Energy Muon Beam Profile Monitoring (BPM) System in the J-PARC Muon g-2/EDM Experiment / 배 성한¹, 고후산¹, 최현석¹, RAZUVAEV Georgiy^{2, 3}, 김봉호¹, 최선호¹, MIBE Tsutomu⁴, OTANI Masashi⁴, KITAMURA Ryo⁵, 원은일⁶ (¹Department of Physics and Astronomy, Seoul National University, ²Budker Institute of Nuclear Physics, ³Novosibirsk State University, ⁴KEK, High Energy Accelerator Research Organization, ⁵University of Tokyo, ⁶Korea University)

G14.06* [10:12 - 10:24]

J-PARC KOTO실험 샘플링 칼로리미터의 성능 평가 / 김준이* (고려대학교 물리학과)

G14.07* [10:24 - 10:36]

Development of TOF detector using plastic scintillators for GBAR experiment / 이아람¹, 황종원¹, 원동환¹, 김선기¹ (¹서울대학교 물리천문학부, ²IBS)

G14.08 [10:36 - 10:48]

Simulation Study of TOF Detector for the GBAR Experiment / 황종원¹, 이아람¹, 김봉호¹, 원동환¹, 김선기¹, 이재승², 박강순², GBAR Collaboration³ (¹서울대학교 물리천문학부, ²기초과학연구원, ³CERN)

[G15-nu] Nuclear Exp. Method etc. I

2016. 10. 21 Friday 09:00 – 10:48

Room: # 306

좌장 : 한 인 식 이화여자대학교

Chair: HAHN In-Sik (Ewha Womans Univ.)

G15.01* [09:00 - 09:12]

Development of a Prototype Fast-Timing System with High Resolution for Nuclear Lifetime Measurements / LUGENDO Innocent Jimmy^{*1}, AHN Jung Keun¹, HONG Byungsik¹, HWANG S.H.², LEE Jong Won¹, MWINGEREZA John Kumwenda¹ (¹Department of Physics, Korea University, ²Korea Research Institute of Standards and Science)

G15.02* [09:12 - 09:24]

Development of multi-purpose separator for low energy RI beam at RAON / 박준식^{1, 2}, 추경호², Yoshiteru Satou², Georg Peter Berg³, 광민식^{2, 4}, Seigo Kato⁵, Shigeru Kubono⁶, Takahashi Hashimoto², 김선아^{2, 7}, 이상진², 신태수², 권영관², 정순찬², 채경욱⁴, 김용균^{*1} (¹Rare Isotope Science Project, Institute for Basic Science ²Department of Physics and The Joint Institute for Nuclear Astrophysics, University of Notre Dame, ³Department of Nuclear Engineering, Hanyang University, ⁴Department of Physics, Sungkyunkwan University,

⁵Department of Physics, Yamagata University, ⁶RIBF, RIKEN, ⁷Department of Medicine and Science, Konyang University)

G15,03* [09:24 - 09:36]

Development of a TPC trigger hodoscope for the H-dibaryon search experiment E42 at J-PARC / 정우승¹, 황상훈², for the E42 Collaboration^{*3} (¹고려대학교 물리학과, ²표준과학연구원 삼익질측정표준본부)

G15,04* [09:36 - 09:48]

Metallic Magnetic Calorimeter optimization for small light detectors for rare event search experiments / OH Seung-Yoon^{1, 2, 3}, LEE Minkyu³, KIM Sora², KIM Yong-Hamb^{*2, 3} (¹Department of Physics, Sejong University, ²Center for Underground Physics, Institute for Basic Science, ³Korea Research Institute of Standards and Science (KRISS))

G15,05 [09:48 - 10:00]

양성자 빔을 이용한 Zr의 생성단면적 측정 / 양성철¹, 송태영¹, 이영욱¹, 김귀년^{*2}, 정명환³ (¹한국원자력연구원 원자력데이터개발검증센터, ²경북대학교 물리학과, ³한국원자력연구원 양성자가속기센터)

G15,06 [10:00 - 10:12]

A radio-purity assay program with an alpha particle counter at the Yangyang underground laboratory. / HA Chang Hyon* (Center for Underground Physics, IBS)

G15,07 [10:12 - 10:24]

An upgrade of a silicon PIN photodiode based radon detector for underground experiments environment. / SEO Kyungmin¹, LEE MooHyun^{*2}, KIM Yeongduk^{1, 2}, LEE Hyun Su², KIM Yong-Hamb², LEE Jaison², OLSEN Stephen Lars², PARK Kangsoon², KIM Sung Hyun², KIM Nam Young², YOON Young Soo², PARK Junhsic², LEE Meong Seop⁵, JANG Sang cheol³, HA Deahoon⁴, SO Jung Ho² (¹Department of Physics, Sejong University, ²Center for Underground Physics, Institute for Basic Science, ³Department of Physics, Seoul National University, ⁴Department of Physics, Kyungpook National University, ⁵VIGS Corporation)

G15,08 [10:24 - 10:36]

Test and simulation results of prototype CsI detector for LAMPS at RAON / 이한슬¹, 문동호^{*1}, 박경환¹, 박정혁¹, 박재범², 이경세², 안정근², 홍병식², 김영진³, 김은주⁴ (¹전남대학교 물리학과, ²고려대학교 물리학과, ³기초과학연구원, ⁴전북대학교 과학교육학부)

G15,09 [10:36 - 10:48]

Development of the gamma ray tracking system in KRISS / HAN

Jubong^{*1}, LEE K.B², LEE Jong-Man², PARK Tae Soon² (¹university of the science and technology, ²radiation center, KRISS)

SESSION H

2016 October 21(Fri) 11:00–12:48

[H1-or] Biophysics: Genome

2016. 10. 21 Friday 11:00 – 12:48

Room: # 201

좌장 : 이 중 봉 포항공과대학교

Chair: LEE Jong-Bong (POSTECH)

H1.01(초) [11:00 - 11:36]

Sequencing everything on Earth: Genome Reading/Sequencing technology / BHAK Jong* (Department of Biomedical Engineering, UNIST)

H1.02(초) [11:36 - 12:12]

Visualization of Large Elongated DNA Molecules / 조규봉* (서강대학교 화학과)

H1.03(초) [12:12 - 12:48]

Biophysical Studies of DNA-DNA Attraction and the Chromosome Organization / KIM Hajin* (Department of Biomedical Engineering and Department of Physics, UNIST)

[H2-op] Generation and detection of light sources

2016. 10. 21 Friday 11:00 – 12:00

Room: # 204

좌장 : 백 인 형 한국원자력연구원

Chair: BAEK In-Hyung (KAERI)

H2.01* [11:00 - 11:12]

Evaluation of Optical Heterodyne Detection System and Phase Control Loop Bandwidth by Introducing External Phase Noise / KANG Minkyu, LEE Sungrae, OH Kyunghwan* (Institute of Physics and Applied physics, Yonsei University)

H2.02* [11:12 - 11:24]

MgO:PPSLT를 이용한 이터븀 광섬유 레이저의 효율적인 고출력 녹색 레이저 변환 / 박은지¹, 정훈², 김지원¹ (¹한양대학교 응용물리학과, ²한국생산과학기슬원)

H2.03* [11:24 - 11:36]

Angle-resolved far-field scattering spectra of single Ag nanowire over the entire semi-meridian / KIM Jinhyung¹, EE Ho-Seok¹, HWANG Min-Soo², KIM Donghyeong¹, JEONG Kwang-Yong¹, KANG Ju-Hyung¹, PARK Hong-Gyu², SEO Min-Kyo¹ (¹Department of physics, KAIST, ²Department of

H2.04* [11:36 - 11:48]

CMOS 이미지 센서를 사용한 레이저-플라즈마 가속 양성자빔의 실시간 에너지 측정 / 김하나¹, 이기태², 김경남², 류우제², 김정태², 이신영², 박성희², Manoj Kumar², 전민용¹, 정영욱² (¹충남대학교 물리학과, ²한국원자력연구원 양자빔기반방사선연구센터)

H2.05* [11:48 - 12:00]

내부 공진기형 파장변환 고출력 녹색 레이저 시스템 개발 / 안상민, 김동준, 김지원* (한양대학교 응용물리학과)

[H3-se] Low dimensional nano-materials II

2016. 10. 21 Friday 11:00 – 12:36

Room: # 208

좌장 : 김 동 욱 이화여자대학교

Chair: KIM Dong-Wook (Ewha Womans Univ.)

H3.01(초) [11:00 - 11:24]

Boron Nitride Nanostructure Synthesis and Electronic applications
/ KIM Myung Jong* (Applied Quantum Composites Research Center, Korea Institute of Science and Technology)

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H3.02* [11:24 - 11:36]

그래핀 양자점에서 산소 기능기(에폭시기)가 가시 광 방출에 미치는 영향에 대한 연구 / 장민호¹, 양현승², 김범준², 조용훈¹ (¹한국과학기술원 물리학과, ²한국과학기술원 생명화학공학과)

H3.03* [11:36 - 11:48]

Increased Quantum Yield of Atomically Thin Semiconductors by Silver Nanowires / 방승호^{1, 2}, 이주복^{1, 2}, 조유현^{3, 4}, Thanh Ngoc Duong^{1, 2}, Anh Duc Nguyen^{1, 2}, 박철호¹, 김현^{1, 2}, 윤석준^{1, 2}, 한강희², 권민기³, 김자연⁴, 김정용^{1, 2}, 정문석^{1, 2} (¹성균관대학교 에너지과학학과, ²나노구조물리연구단, ³조선대 광기술공학과, ⁴한국광기술원 LED연구실)

H3.04 [11:48 - 12:00]

ZnO-based piezo/triboelectric nanogenerators with surface-modified polydimethylsiloxane for thread-based energy harvester
/ LEE Choonghyun¹, KO Wonbae¹, CHOI Dasong¹, YANG Seungmo¹, YANG Jungyup², CHAE Seongjeong³, YOUN Juyoung³, HONG Jinpyo¹ (¹Department of Physics, Hanyang University, ²Department of Physics, Kunsan University, ³Wooyang Advanced Material Co.)

H3.05 [12:00 - 12:12]

Nanostructured ZnO frame Synthesis via Aqueous Solution Method for Wearable Energy Harvesting Device / CHOI DaSong¹, KO WonBae¹, LEE ChoongHyun¹, YANG SeungMo¹, YANG JungYup², CHAE Seong-Jeong³, YOUN Ju-Young³, HONG JinPyo^{*1} (¹Department of Physics, Hanyang University, ²Department of Physics, Kunsan University, ³Yooyang Advanced Matreial Co.)

H3.06 [12:12 - 12:24]

Effect of Impurities Concentration on the Thermoelectric Properties of GaTe Single Crystals / VU THI HOA, PHAM ANH TUAN, DUONG VAN THIET, CHO SUNGLAE* (Department of Physics University of Ulsan)

H3.07* [12:24 - 12:36]

NaYF₄ upconverting nanoparticles based non-invasive temperature sensor and optical heater / DU Peng, YU Jae Su* (Department of Electronics and Radio Engineering, Kyung Hee University)

[H4-ap] Magnetism

2016. 10. 21 Friday 11:00 – 12:00

Room: # 209

좌장 : 최 영 재 연세대학교

Chair: CHOI Young-Jai (Yonsei Univ.)

H4.01 [11:00 - 11:12]

Current-controlled magnetization using interfacial localizations in complex oxide heterostructure / SEO Jiwon* (Department of Physcis Yonsei University)

H4.02* [11:12 - 11:24]

Antiferromagnetic Domain Wall Motion Driven by Spin-Orbit Torques / OH Se-Hyeok¹, SHIINO Takayuki², HANEY Paul M³, LEE Seo-won⁴, GO Gyungchoon⁴, PARK Byong-Guk^{*2}, LEE Kyung-Jin^{*1, 4, 5} (¹Department of Nano Semiconductor and Engineering, Korea University, ²Department of Materials Science and Engineering, KAIST, ³Center for Nanoscale Science and Technology, National Institute of Standards and Technology, ⁴Department of Material Science and Engineering, Korea University, ⁵KU-KIST Graduate School of Converging Science and Technology, Korea University)

H4.03* [11:24 - 11:36]

Spin-orbit-torque features in W/CoFeB/MgO frames by thermal treatment / YANG Seungmo¹, AN Gwangguk¹, CHUNG Wooseong³, PARK Haesoo¹, KO Wonbae¹, HONG Jinpyo^{*1, 2} (¹Novel Functional Materials and Devices Lab, Department of Physics, Hanyang University, ²Division of Nano-Scale

Semiconductor Engineering, Hanyang University, ³Nano Quantum Electronics Lab,
Department of Electronics and Computer Engineering, Hanyang University)

H4.04 [11:36 - 11:48]

**저마늄(Germanium)기판 위에 제작된 $\text{MgO}/\text{Co}_{40}\text{Fe}_{40}\text{B}_{20}$ 스핀 터널
컨택의 결정 구조와 스핀 축적간 상관관계에 대한 연구** / 이수길¹, 김상훈²,
손장엽¹, 차종인¹, 사친 파닥(Sachin Pathak)¹, 홍종일¹ (¹연세대학교 신소재공학과,
²교토대학교 화학연구소)

H4.05* [11:48 - 12:00]

**Transparent magnetic thin films based on extraordinary optical
transmission** / HAN Seung-Hoon, SONG Bokyoung, HONG Jung-II, CHO
Chang-Hee* (Department of Emerging Materials Science, DGIST)

[H5-ap] 2D: Black phosphorus/Chalcogenide

2016. 10. 21 Friday 11:00 – 12:48

Room: # 210

좌장 : 이 철 호 고려대학교

Chair: LEE Chul-Ho (Korea Univ.)

H5.01* [11:00 - 11:12]

**Layer-number-dependent atomic scale imaging of black
phosphorus and its structural transformation** / LEE Yangjin¹, YOON
Jun-Yeong¹, SCULLION Declan³, JANG Jeongsu¹, SANTOS Elton J. G.^{3,4}, JEONG
Hu Young², KIM Kwanpyo^{*1} (¹Department of Physics, Ulsan National Institute of
Science and Technology (UNIST), ²UNIST Central Research Facilities (UCRF), Ulsan
National Institute of Science and Technology (UNIST), ³School of Mathematics
and Physics, Queens University Belfast, ⁴School of Chemistry and Chemical
Engineering, Queens University Belfast)

H5.02* [11:12 - 11:24]

Substrate-dependent degradation of black phosphorus / YOON
Jun-Yeong¹, CHOI Byung Doo², LEE Yangjin¹, SEO Jinhwi¹, KIM Myung-Gil²,
KIM Kwanpyo^{*1} (¹Department of Physics, Ulsan National Institute of Science and
Technology (UNIST), ²Department of Chemistry, Chung-Ang University)

H5.03* [11:24 - 11:36]

**Power Dissipation and related Cooling in Black Phosphorus Field
Effect Transistor** / AHMED Faisal¹, CHOI Min Sup², LIU Xiaochi², YOO Won
Jong^{*2} (¹School of Mechanical Engineering, Sungkyunkwan University, ²SKKU
Advance Institute of Nano Technology (SAINT), Sungkyunkwan University)

H5.04 [11:36 - 11:48]

Interlayer Sliding in Bilayer Molybdenum Disulfide / LEE Jae-Ung¹,
WOO Sungjong², PARK Hee Chul^{2,3}, SON Young-Woo², CHEONG Hyeonsik^{*1}

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(¹Department of Physics, Sogang University, ²Korea Institute for Advanced Study, ³Center for Theoretical Physics of Complex Systems, Institute of Basic Science (IBS))

H5.05* [11:48 - 12:00]

Tunneling transport of mono- and few-layers magnetic van der Waals MnPS₃ / LEE Sungmin^{1, 2}, CHOI Ki-Young¹, LEE Sangik³, PARK Bae Ho³, PARK Je-Geun^{*1, 2} (¹Center for Correlated Electron Systems IBS, ²Department of Physics and Astronomy Seoul National University, ³Department of Physics Konkuk University)

H5.06* [12:00 - 12:12]

Trap-assisted electronic transport properties of pentacene/MoS₂ heterostructure p-n junction devices / KIM Jae-Keun¹, CHO Kyungjune¹, KIM Tae-Young¹, PAK Jinsu¹, JANG Jingon¹, SONG Younggul¹, KIM Youngrok¹, CHOI Yuri Barbara¹, HONG Woong-Ki², LEE Takhee^{*1} (¹Department of Physics and Astronomy, Seoul National University, ²Jeonju Center, Korea Basic Science Institute)

H5.07* [12:12 - 12:24]

Pulse laser deposition assisted grown continuous monolayer MoSe₂ film / ULLAH Farman, NQUYEN Tri Khoa, KIM Sunho, KIM Yong Soo^{*} (Department of Physics and Energy Harvest-Store Research Center, University of Ulsan)

H5.08* [12:24 - 12:36]

Selective deformation of monolayer MoS₂ by illuminating laser / KIM Sung Won¹, NA Jeong Hyeon¹, CHOI Won Lyeol¹, CHOI Soo Ho², YANG Woorchul², LEE Sang Wook³, CHUNG Hyun-Jong¹, JHANG Sung Ho^{*1} (¹Department of Physics Konkuk University, ²Department of Physics Dongguk University, ³Department of Physics Ewha Womans University)

H5.09 [12:36 - 12:48]

Low-frequency noise characteristics in monolayer tungsten disulfide field-effect transistors / YUN Yoojoo¹, JOO Min-Kyu², YUN Seokjoon^{1, 2}, SUH Dongseok^{*1} (¹Department of Energy Science, Sungkyunkwan University, ²IBS, Center for Integrated Nanostructure Physics (CINAP), Sungkyunkwan University)

[H6-co] Focus session: New Physics in Ultrathin Ferroelectrics

2016. 10. 21 Friday 11:00 – 13:00

Room: # 211

좌장 : 송 태 권 창원대학교

Chair: SONG Tae-Kwon (Changwon National Univ.)

H6.01(초) [11:00 - 11:24]

Ferroelectricity in ultrathin BaTiO₃ films grown on SrTiO₃-buffered silicon / YANG Sang Mo* (Department of Physics, Sookmyung Women's University)

H6.02(초) [11:24 - 11:48]

Inhomogeneous Tunneling Conductance in Ultrathin Ferroelectric Films and Fundamental Barrier Thickness Limits of Ferroelectric Tunnel Junctions / WANG Lingfei^{*1}, CHO Myeong Rae¹, YANG Sang Mo², KIM Rokyeon¹, KIM Choong Hyun¹, KALININ Sergei V.², NOH Tae Won¹ (¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), ²Center for Nanophase Materials Sciences, Oak Ridge National Laboratory)

H6.03(초) [11:48 - 12:12]

Modulation of Surface and Interface of Complex Oxide Thin Film Heterostructures / RYU Sangwoo* (Graduate School of EEWS, Korea Advanced Institute of Science and Technology)

H6.04(초) [12:12 - 12:36]

Polar Metals by Geometric Design / KIM Tae Heon* (Department of Physics, University of Ulsan)

H6.05(초) [12:36 - 13:00]

Direct nanoscale analysis on temperature-resolved growth behaviors of ultrathin perovskites on SrTiO₃ / 장영준^{*1}, 박수현^{2, 3} (¹서울시립대학교 물리학과, ²Center for Correlated Electron Systems, Institute for Basic Science, ³Graphene Research Institute, Sejong University)

[H7-co] Computational condensed matter

2016. 10. 21 Friday 11:00 – 12:24

Room: # 212

좌장 : 방 준 혁 한국기초과학지원연구원

Chair: BANG Jun-Hyeok (KBSI)

H7.01* [11:00 - 11:12]

Peierls distortion in carbynes and carbon rings: quantum Monte Carlo study / HONG Iue Gyun, AHN Jeonghwan, BEA Hyeonhu, SHIN Hyeondeok, PARK Sungjin, LEE Hoonkyung, KWON Yongkyung* (Dept. of Physics, Konkuk University)

H7.02* [11:12 - 11:24]

The origin of 1T' phase of WTe₂: A first-principles study / 김솔*, 지승훈* (포항공과대학교 물리학과)

H7.03* [11:24 - 11:36]

Atomistics of Carbon Nanotube-Polyacrylonitrile Interfaces for Next-Generation Carbon Fibers: A Multiscale Computational Study / LEE Juho¹, CHOI Ji Il¹, JANG Seung Soon², KUMAR Satish², CHO Art E.³, KIM Yong-Hoon*¹ (¹Graduate school of EEWS, Korea Advanced Institute of Science and Technology, ²Department of Materials Science and Engineering, Georgia Institute of Technology, ³Department of bioinformatics, Korea University)

H7.04* [11:36 - 11:48]

Strain Engineered Spin-dependent Schottky Barrier in MoS₂-VS₂ Lateral Heterostructure / 황희현, 이재광* (부산대학교 물리학과)

H7.05* [11:48 - 12:00]

Multiferroic coupling between magnetism, in-plane structural order, and out-of-plane polarization in heterogeneous bilayer of transition-metal dichalcogenides / 신동빈, 박노정* (울산과학기술원 물리학과)

H7.06* [12:00 - 12:12]

Second-order ferroelectric phase transition in two-dimensional puckered group-V materials / 이상훈*, 지승훈* (포항공대 물리학과)

H7.07* [12:12 - 12:24]

Correlation between polaron hopping barrier and Sn doping in Hematite / MIN Taewon, SONG Sehwan, PARK Sungkyun, LEE Jaekwang* (Department of Physics, Pusan National University, Busan 46241, Korea)

[H8-co] Superconductivity

2016. 10. 21 Friday 11:00 – 12:12

Room: # 213

좌장 : 한 명 준 한국과학기술원

Chair: HAN Myung-Joon (KAIST)

H8.01(초) [11:00 - 11:24]

Novel metallic state in orbitally ordered phase of FeSe revealed by optical spectroscopy / NAKAJIMA M.*¹, YANASE K.¹, NABESHIMA F.², IMAI Y.^{2,3}, MAEDA A.², TAJIMA S.¹ (¹Department of Physics, Osaka University, ²Department of Basic Science, University of Tokyo, ³Department of Physics, Tohoku University)

H8.02 [11:24 - 11:36]

Ultrafast quasiparticle dynamics of optimally doped $\text{Bi}_{2.1}\text{Sr}_{1.9}\text{CaCu}_2\text{O}_{8+\delta}$ via time-resolved optical spectroscopy / SEO Choongwon^{1, 2}, LEE Mincheol^{2, 3}, KWAK InHo^{2, 3}, LEE Yeongseon^{1, 2}, KIM SeongJun¹, NOH Taewon^{2, 3}, GU Genda⁴, KIM Kyungwan^{*1} (¹Department of Physics, Chungbuk National University, ²Center for Correlated Electron Systems, Institute for Basic Science (IBS), ³Department of Physics and Astronomy, Seoul National University (SNU), ⁴Condensed Matter Physics and Materials Science Department, Brookhaven National Laboratory (BNL),)

H8.03* [11:36 - 11:48]

Enhancement of superconductivity by interfacial phonons in perovskite-clad FeAs monolayers / 최석환¹, 장원준^{1, 2}, 이현정³, 옥종목³, 최현우¹, 이태경⁴, Alireza Akbari^{3, 5}, 서환수⁶, Yannis K. Semertzidis^{1, 2}, 방윤규⁷, 김준성³, 이진환^{*1, 2} (¹한국과학기술원, 물리학과, ²기초과학연구원, ³포항공과대학교, ⁴Columbia University, ⁵Asia Pacific Center for Theoretical Physics, ⁶삼성종합기술원, ⁷전남대학교)

H8.04* [11:48 - 12:00]

Evidence of nodeless multigap superconductivity in $2\text{H-Pd}_x\text{TaSe}_2$ from thermal transport / KIM Chanhee, BHOI Dilip Kumar, JEON Byung-Gu, MIN Byeong Hun, NAM Woohyun, KIM Kee Hoon* (CeNSCMR and Institute of Applied Physics, Department of Physics and Astronomy, Seoul National University)

H8.05 [12:00 - 12:12]

Superconductivity in doped 3D Dirac semimetal with lattice distortion / CHEON Sangmo^{*1, 2}, LEE Ki Hoon^{1, 2}, CHUNG Suk Bum^{1, 2}, YANG Bohm-Jung^{1, 2} (¹Department of Physics and Astronomy, Seoul National University, ²Center for Correlated Electron Systems, Institute for Basic Science (IBS))

[H9-co] Surface/Interface/Nanomaterials II

2016. 10. 21 Friday 11:00 - 12:24

Room: # 214

좌장 : 이 현 우 포항공과대학교

Chair: LEE Hyun-Woo (POSTECH)

H9.01* [11:00 - 11:12]

Ferromagnetism controlled by electric field in tilted phosphorene nanoribbon / FAROOQ Muhammad Umar, HONG Jisang* (Department of Physics, Pukyong National University)

H9.02* [11:12 - 11:24]

Circular photon drag effect in a Bi_2Se_3 thin film investigated by terahertz emission spectroscopy / 함선영¹, 박순희¹, 정상균², 전재호²,

천승현², 이종석^{*1} (¹광주과학기술원 물리광학과, ²세종대학교 물리학과)

H9.03 [11:24 - 11:36]

Edge State of Boundary-Functionalized 2D Topological Insulator /
도현진, 최형준* (연세대학교 첨단전자물성계산연구단)

H9.04* [11:36 - 11:48]

Raman scattering studies of strain effect of suspended molybdenum disulfide (MoS₂) on periodic structured substrate /
문한결, 김자영, 손아름, 김동욱, 윤석현* (Ewha womans university)

H9.05* [11:48 - 12:00]

Crystallinity and Electrical Resistivity of TiZrNi Quasicrystals by Adding Hydrogen / LEE Sang-hwa, KIM Jaeyong* (Department of Physics, Hanyang University)

H9.06 [12:00 - 12:12]

Graphene bubbles and their effects on the charge transport behaviors / 김학성¹, Nicolas Leconte², 정재일^{*3}, 정수용^{*1} (¹한국 표준 과학 연구원, ²텍사스 대학교 물리학과, ³서울 시립 대학교 물리학과)

H9.07* [12:12 - 12:24]

Magnetic properties of transition metal Mn, Fe and Co dimers on monolayer phosphorene / KHAN Imran, HONG Jisang* (Department of Physics, Pukyong National University)

[H10-as] Astrophysics-general

2016.10.21 Friday 11:00– 13:00

Room: # 301

좌장 : 김 형 찬 한국교통대학교

Chair: KIM Hyeong-Chan (Korea National Univ. of Transportation)

H10.01(초) [11:00 - 11:24]

Ultra-compact high-resolution space telescope for earth and astronomical observations / TUMARINA Maria¹, HONG Kihan¹, RYAZANSKIY Mikhail², PARK Il Hung^{*1}, JEONG Soomin^{1,3} (¹Department of Physics, Sungkyunkwan University, ²SatByul Co., ³Stellar Physics Department, Instituto de Astrofísica de Andalucía (IAA-CSIC))

H10.02 [11:24 - 11:36]

Pre-Launch Status of the Silicon Charge Detector for the ISS-CREAM experiment / LEE Jik*, CHOI Gwangho, LEE Hye Young, JEON Jin-A, PARK Il Hung (Department of Physics, Sungkyunkwan University)

H10.03* [11:36 - 11:48]

Electron Physics Simulation Study for Top and Bottom Counting Detectors of ISS-CREAM Experiment / PARK Jeogmin³, KIM Hongjoo^{*1}, PARK H.¹, JEON H.B.¹, HYUN H.J.², HWANG Y.S.³ (¹Kyungpook National University, ²Pohang Acceleration Laboratory, ³KAERI, ⁴ISS-CREAM)

H10.04 [11:48 - 12:00]

Problem of Multipoles in BOSS DR12 results / LEE Seokcheon^{*1, 2} (¹Department of Physics Education Gyeongsang University, ²Department of Physics Sungkyunkwan University)

H10.05 [12:00 - 12:12]

A new estimator of the deceleration parameter from galaxy rotation curves / VAN PUTTEN Maurice H^{*} (Physics and Astronomy, Sejong University)

H10.06 [12:12 - 12:24]

Eccentric compact binary inspirals and GW parameter estimation / KIM Chunglee^{*1}, LEE Hyung Won², KIM Jeongcho², FAVATA Marc³, ARUN K.G.⁴ (¹KASI, ²Inje U., ³Montclair State University, ⁴Chennai Mathematical Institute)

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H10.07 [12:24 - 12:36]

Initial Data Construction for Lattice Universe with Rotating Black Holes / PARK Chan^{*}, KANG Gungwon (KISTI)

H10.08 [12:36 - 12:48]

A study of light reflection near a black hole / 윤영환^{*}, 장기호 (ETPL 연구소)

H10.09 [12:48 - 13:00]

Light on a plane gravitational wave background / 강궁원^{*} (한국과학기술정보연구원(KISTI))

[H11] No session

[H12-pl] Nuclear Fusion 2

2016. 10. 21 Friday 11:00 – 12:12

Room: # 303

좌장 : 왕 선 정 국가핵융합연구소

Chair: WANG Son-Jong (NERI)

H12.01(초) [11:00 - 11:24]

KSTAR 플라스마의 난류 시뮬레이션 및 진단 연구 현황 소개 / 권재민*
(국가핵융합연구소)

H12.02 [11:24 - 11:36]

Current profile measurements under non-inductive current drive at KSTAR / KO Jinseok^{*1}, CHUNG Jinil¹, MESSMER Maximilian C. C.², WI Hanmin¹ (¹National Fusion Research Institute, Daejeon, ²Technical University of Eindhoven)

H12.03 [11:36 - 11:48]

Ion-scale turbulence study in KSTAR L-mode plasmas / LEE Woochang^{*1}, LEEM June-Eok², YUN Gunsu², PARK Hyeon K.³, KO Sehoon¹, CHOI Minjun¹, WANG Weixing⁴, BUDNY Robert V.⁴, LUHMANN, JR. Neville C.⁵, KIM Kang-Wook⁶, KO Won-Ha¹, LEE Kyu-Dong¹ (¹National Fusion Research Institute, ²Pohang University of Science and Technology, ³Ulsan National Institute of Science and Technology, ⁴Princeton Plasma Physics Laboratory, New Jersey, USA, ⁵University of California at Davis, California, USA, ⁶Kyungpook National University)

H12.04 [11:48 - 12:00]

Evolution of locked mode under the existence of non-axisymmetric fields in KSTAR / KIM Jayhyun* (National Fusion Research Institute)

H12.05 [12:00 - 12:12]

Rotation and its Shear Studies by the Effect of Non-axisymmetric Magnetic Fields in KSTAR* / KO Won-Ha^{*1,2}, LEE H.H.¹, IN Y.¹, KIM H.S.¹, YOON S.W.¹, IDA K.³, LEE J.H.^{1,2}, SEO D.C.¹, JEON Y.M.¹, KIM J.¹, OH Y.K.¹ (¹National Fusion Research Institute, ²Korea University of Science and Technology (UST), ³National Institute for Fusion Science)

E [H13-pa] Pioneer: Prospect of DUNE Korea

2016. 10. 21 Friday 11:00 – 12:48

Room: # 304

좌장 : 조 기 현 한국과학기술정보연구원

Chair: CHO Ki-Hyeon (KISTI)

H13.01(초) [11:00 - 11:36]

Computing and Software Development in DUNE / JUNK Thomas R*
(Fermi National Accelerator Laboratory)

H13.02(초) [11:36 - 12:00]

The role of data center in data intensive research era in Korea. /
NOH Seo-Young* (Korea Institute of Science and Technology Information)

H13.03(초) [12:00 - 12:24]

Neutrino-induced Reactions and Neutrino Scattering with Nuclei
/ CHEOUN Myung-Ki^{*1}, KIM Kyungsik², HA Eunja¹, YANG Ghil-Seok¹
(¹Department of Physics, Soongsil University, ²Korea Aerospace University)

H13.04(초) [12:24 - 12:48]

Prospect of DUNE Korea / SIYEON Kim* (Department of Physics, Chung-Ang University)

[H14-nu] Hadron Physics & Nuclear Astrophysics

2016. 10. 21 Friday 11:00 – 12:24

Room: # 305

좌장 : 곽 규 진 울산과학기술원

Chair: KWAK Kyu-Jin (UNIST)

H14.01 [11:00 - 11:12]

Light-front quark model analysis of the $P(\pi, \eta, \eta') \gamma^* \gamma$ transition form factors / 류휘영^{*1}, 최호명², 지청룡³ (¹부산대학교, ²경북대학교, ³North Carolina State University)

H14.02 [11:12 - 11:24]

Interference effects in $K^+ K^- p$ photoproduction / 남승일^{*1}, 호사카 야츠시² (¹부경대학교 물리학과, ²RCNP 오사카대학교)

H14.03 [11:24 - 11:36]

Photoproduction of $\Lambda(1405)$ with an Effective Lagrangian approach / KIM Sang-Ho^{*1}, NAM Seung-il^{*2}, JIDO Daisuke^{*3}, KIM Hyun-Chul^{*4} (¹Asia Pacific Center for Nuclear Physics, POSTECH, ²Department of Physics, Pukyong National University, ³Department of Physics, Tokyo Metropolitan University, ⁴Department of Physics, Inha University)

H14,04* [11:36 - 11:48]

Radiative weak decay of pion, $\pi^+ \rightarrow e^+ \nu_e \gamma$, from the instanton vacuum / SHIM Sang-In, KIM Hyun-Chul* (Department of Physics Inha University)

H14,05* [11:48 - 12:00]

Pairing correlation effects in neutron star / 최순철, 천명기* (숭실대학교 물리학과)

H14,06* [12:00 - 12:12]

Constraint of the spin assignments to the excited states in ^{23}Mg through a $^{24}\text{Mg}(p,d)^{23}\text{Mg}$ reaction / LEE Eunji, CHAE Kyungyuk* (Sungkyunkwan University)

H14,07* [12:12 - 12:24]

Big bang nucleosynthesis with a non-Maxwellian distribution / JANG Dukjae^{*1}, KWON Youngshin¹, KWAK Kyujin², CHEOUN Myung-Ki¹ (¹Soongsil University, ²UNIST)

[H15-nu] Nuclear Exp. Method etc. II

2016. 10. 21 Friday 11:00 – 12:36

Room: # 306

좌장: 최 선 호 서울대학교

Chair: CHOI Seon-Ho (Seoul National Univ.)

H15,01* [11:00 - 11:12]

Performance Test of a Prototype Neutron Detector Array using 65-MeV and 392-MeV Neutrons at RCNP / 심현하¹, 이종원¹, Benard Mulilo¹, 김만호¹, 조자민¹, 김영준¹, 최원지¹, 안정근¹, 홍병식^{*1}, 이한솔², 박경환² (¹고려대학교 물리학과, ²전남대학교 물리학과)

H15,02 [11:12 - 11:24]

The present status of 10 kW target fabrication for ISOL in RISP / HWANG Wonjoo*, JEONG Jaewon, KANG Byounghwi, PARK Sungjong, NA Sangho, TSHOO Kyoungcho, ISHIYAMA Hironobu (RISP, Institute for Basic Science, Yuseung-gu, Daejeon 34047, Korea)

H15,03* [11:24 - 11:36]

Development of HypTPC Software for the J-PARC E42 Experiment / KIM Shin Hyung^{*1}, SAKO Hiroyuki², SUGIMURA Hitoshi², AHN Jung Keun¹, HONG Byungsik¹ (¹Department of Physics, Korea University, ²Advanced Science Research Center, Japan Atomic Energy Agency)

H15.04* [11:36 - 11:48]

Low temperature measurement setup of simultaneous heat and light detection for 1 cm³ crystals / KIM Hyelim^{1,2}, JO Hyon-Suk¹, KANG Chan Seok¹, KIM Geon-Bo¹, KIM Hong Joo^{*2}, KIM Inwook¹, KIM So-Ra¹, KIM Yong-Hamb^{*1}, LEE Chang¹, LEE Hyejin¹, LEE Minkyu³, OH Seung-Yoon¹, SO Jungho¹ (¹Center for Underground Physics Institute for Basic Science, ²Department of Physics Kyungpook National University, ³Korea Research Institute of Standards and Science)

H15.05* [11:48 - 12:00]

Growth and Characterization of Na₂O-MoO₃ content Crystals / PANDEY Indra Raj¹, KIM HongJoo^{*1}, CHEON Jong-Gyu² (¹Department of Physics, Kyungpook National University, ²Department of College of Health and Welfare, Sorabol College)

H15.06* [12:00 - 12:12]

Simulations of cross section measurements for radiative-capture reaction using KoBRA / 곽민식^{*1,2}, 채현우^{1,3}, 채경욱², T. Hashimoto¹, 김미정¹, 권영관¹, 박준식^{1,4}, Y. Satou¹, 신태수¹, 추경호¹, 우형주¹ (¹기초과학연구원 중이온가속기건설구축사업단, ²성균관대학교 물리학과, ³서울대학교 물리천문학부, ⁴한양대학교 원자력공학과)

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H15.07 [12:12 - 12:24]

Performance results for a PPAC for use with the KOBRA spectrometer / AKERS Charles Anthony^{*}, KIM Young Jin, LEE Kwang Bok, LEE Hyo Sang, KIM Eun Hee, RYU Min Sang, PARK Jin Hyung (Institute for Basic Science)

H15.08 [12:24 - 12:36]

Angular Distributions of Bremsstrahlung X-ray Emission from ECR Plasma / KUMWENDA Mwingereza John, AHN Jung Keun^{*} (Department of Physics, Korea University)

[T1-se] Tutorial session : Two dimensional materials

2016. 10. 19 Wednesday 11:00 – 11:24

Room: # 208

좌장 : 송 영 민 광주과학기술원

Chair: SONG Young-Min (GIST)

T1.01 [11:00 - 11:24]

2차원 물질의 기초 및 전자소자 응용 (Two-dimensional materials: fundamentals to applications) / 이관형 (연세대)

[T2-as] Tutorial: Evolution and Death of Stars

2016. 10. 20 Thursday 16:00 – 18:00

Room: # 301

좌장 : 조 인 용 서울과학기술대학교

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

T2.01 [16:00 - 17:00]

별의 진화: 주계열에서 초신성까지 / 윤성철 (서울대학교)

T2.02 [17:00 - 18:00]

백색왜성, 중성자별, 블랙홀 / 이창환 (부산대학교)

[W1-or] KIAS public lecture: The frontiers of physics

2016. 10. 20 Thursday 18:00 – 19:30

Room: Convention Hall #1

좌장 : 백 승 원 고등과학원

Chair: BAEK Seung-Won (KIAS)

W1.01 [18:00 – 18:45]

물리학으로 보는 인간, 그리고 사회 / 김범준 (성균관대학교)

W1.02 [18:45 – 19:30]

상대성이론에 대한 새로운 이해 / 최강신 (이화여대)

[Y1-or] Plenary session

2016. 10. 19 Wednesday 13:00 – 13:48

Room: # 302/303

좌장 : 고 병 원 고등과학원

Chair: KO Pyung-Won (KIAS)

Y1.01 [13:00-13:48]

Discovery of neutrino oscillations in Super-Kamiokande and future prospect of researches in Kamioka / Takaaki Kajita (Director, Institute for Cosmic Ray Research, University of Tokyo)

The Korean Physical Society

포스터발표논문 시간표

Poster session schedule

Hanging posters: 2016. 10. 19 Wednesday 13:00 – 10. 20 Thursday 12:00

Presentation : 2016. 10. 19 Wednesday 18:00 - 19:30

Place: Multipurpose Hall

P1-ap.101*

Synthesis and characterization of SnO & SnO₂ nanowires by thermal CVD under hydrogen atmosphere / JUNG Won, KANG Hyon Chol*(Department of Materials Science and Engineering, Chosun University)

P1-ap.102*

Screw-Dislocation-Driven Growth of ZnO Nanotubes Seeded by Self-Perpetuating Spirals during Hydrothermal Processing / KIM So Jin, KANG Hyon Chol*(Department of Materials Science and Engineering, Chosun University)

P1-ap.103*

Chemical doping for Low Contact Resistance and De-Pinning at the Interface of Molybdenum Based Chalcogenides and Metals / MOON Inyong¹, KIM Changsik¹, NAM Seunggeol², CHO Yeonchoo², SHIN Hyeon-jin², PARK Seongjun², YOO Won Jong^{*1}(¹Samsung-SKKU Graphene Center (SSGC), SAINT, Sungkyunkwan Univ., Korea, ²Device & System Research Center, Samsung Advanced Institute of Technology(SAIT), Korea)

P1-ap.104*

Defect density reduction at Ge interface by oxidation through a capping layer / JUNG Munhwa, NOH Heeyoon, KIM Dongjun, LYO In-Whan*(Department of Physics Yonsei University)

P1-ap.105*

Electric transport properties of thin monoclinic MoTe₂ fabricated by laser thinning / HWANG Geunwoo¹, KIM Sera¹, KIM Jungho^{1, 2}, CHO Suyeon², YANG Heejun^{*1}(¹Department of energy science, Sungkyunkwan University, ²IBS Center for Integrated Nanostructure Physics (CINAP), Institute for Basic Science)

P1-ap.106*

Asymmetric Nanoporous Ta₂O_{5-x} Memristor for Neuromorphic System / JANG Seonghun, WANG Gunuk*(KU-KIST Graduate School of Converging Science & Technology, Korea University)

P1-ap.107*

Photodetector device of the transferred large area synthesized few layers MoSe₂ on arbitrary substrate / CHOI Yoonho, LIM

Donghyeok, JEONG Jaehun, KIM Dae-Kyoung, CHO Mann-ho*(Institute of Physics and Applied Physics, Yonsei University, Seoul, 120-749, Republic of Korea)

P1-ap.108*

Single nanoporous structure-based silicon oxide memory / KWON Soonbang, WANG Gunuk*(KU-KIST Graduate School of Converging Science & Technology, Korea University)

P1-ap.109

Room-temperature detection of vapor-phase hydrogen peroxide using Pt-decorated carbon nanotube networks / LEE Dong-Jin, CHOI Sun-Woo, BYUN Young Tae*(Sensor System Research Center, Korea Institute of Science and Technology (KIST))

P1-ap.110*

Enhanced MoS₂ characteristic in 2D material junction structure based on MoS₂ / OH DaYea, LEE Duk Hyun, LEE Min Ju, SHIN Min Jung, LEE Mi Jung, OH Gang Taek, WOO Ye Won, PARK Bae Ho*(Department of Physics Konkuk University)

P1-ap.111

Nanoporous Anodic Aluminum Oxide의 고효율 / 친환경 제작 및 응용성 연구 / 정석환¹, 김석호², 정연관¹, 박희경¹, 백종열¹, 임혜린¹, 문현성¹, 김민정¹, 김선국¹, 박동혁², 홍영기¹(¹경희대학교 전자전파공학과, ²인하대학교 유기응용재료공학과)

P1-ap.112

Resistance change of ion beam irradiated graphene / YEO Sunmog*, KANG Jonghyun(Korea Atomic Energy Research Institute)

P1-ap.113*

An optimization of composition for supercapacitors using experimental design with mixture components / LEE Sung Deuk¹, LEE Han Sung¹, KIM Jin Young^{1,2}, JEONG Jaesik³, KAHNG Yung Ho*(¹Department of Physics Education, Chonnam National University, Gwangju 61186, KOREA, ²School of Materials Science & Engineering, Chonnam National University, ³Department of Statistics, Chonnam National University)

P1-ap.114*

Observations of Au nanoparticles within the well structure using scanning electron microscope through reduced or non-reduced graphene oxide layers / KIM Jun Woo¹, AN Jin Yong¹, AHN Sang Jung², KAHNG Yung Ho*(¹Department of Physics Education, Chonnam National University, Gwangju 61186, KOREA, ²Korea Research Institute of Standards and Science, Daejeon 34113, Korea)

P1-ap.115*

Investigation of the performance change of the graphene-based supercapacitors after a proton irradiation / KIM Jin Young¹, KO Young Ha¹, LEE Sung Deuk¹, LEE Han Sung¹, CHO Hoonsung², KAHNG Yung Ho^{*1}(¹Department of Physics Education, Chonnam National University, Gwangju 61186, Korea, ²School of Materials Science & Engineering, Chonnam National University,)

P1-ap.116*

Fabrication of bilayer VO₂ films / IM Jiseok, LEE Sungsu, LEE Hyeonjun, KWAK Jeonghun, JO Jiyoung^{*}(School of Materials Science and Engineering, Gwangju Institute of Science and Technology)

P1-ap.117

Magnetization switching driven by spin-orbit torque in exchange-biased magnetic tunnel junctions / JO Euna, JANG Chaun, PARK Hee-Gyum, MIN Byoung-Chul^{*}(Center for Spintronics, Korea Institute of Science and Technology)

P1-ap.118*

CO oxidation of Palladium Nanoparticles on Different Carbon Supports: Nanodiamond and Onion-like carbon / KOH Yoobin¹, LIM Hojoon¹, YOO Youngseok¹, KIM Geonhwa¹, JUNG Beomgyun², CRUMLIN Ethan³, ZHANG Liyun⁴, SU Dangsheng⁴, MUN Bongjin Simon^{*1,5}(¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Division of Material Science Research, Korea Basic Science Institute, ³Advanced Light Source, Lawrence Berkeley National Laboratory, ⁴Shenyang National Laboratory for Materials Science Institute of Metal Research, ⁵Ertl Center for Electrochemistry and Catalysis, Gwangju Institute of Science and Technology)

P1-ap.119*

Excitonic resonance Raman effects of thin film WS₂ / YANG Jinho, KIM Kangwon, LEE Jae-Ung, CHEONG Hyeonsik^{*}(Department of Physics, Sogang University)

P1-ap.120*

First-order Raman modes in few-layer WSe₂ / KIM Sanghun, LEE Jae_Ung, KIM Kangwon, CHEONG Hyeonsik^{*}(Department of Physics Sogang University)

P1-ap.121

Resistive switching in epitaxial brownmillerite oxide thin films by touching a probe tip to an active layer / RAVEENDRA Nallagatla Venkata, JUNG Chang Uk^{*}(Department of Physics and Oxide Research Centre, Hankuk University of Foreign Studies, Yong-in)

P1-ap.122

Scalable Production of Sensor Arrays based on High Mobility Hybrid Graphene Field Effect Transistors / GAO Zhaoli¹, KANG Hojin², PARK Yungwoo²(¹Department of Physics and Astronomy, University of Pennsylvania, ²Department of Physics and Astronomy, Seoul National University)

P1-ap.123*

Electrical Characterizations and Anisotropic Properties of GeSe Nanoflakes / JANG Jeonsu, LEE Yangjin, YOON Jun-Young, KIM Kwanpyo* (Department of Physics, Ulsan National Institute of Science and Technology (UNIST))

P1-ap.124

코어-셸 양자점을 포함한 polyvinylpyrrolidone 나노복합체를 기반으로 제작한 비휘발성 메모리 소자의 전기적 특성과 동작 메커니즘 / 박성민¹, 우성준², 김태환¹, ²(¹한양대학교 융합전자공학부, ²한양대학교 전자컴퓨터통신학과)

P1-ap.125*

Improved Photosensitivity of MoS₂ Field Effect Transistors by Surface Treatment with Copper Phthalocyanine / 박진수, 장진곤, 김태영, 조경준, 김재근, 최유리, 신지원, 이택희*(서울대학교 물리천문학부)

P1-ap.126*

Generation and transport of photo-generated carriers in P3HT/Si nanopillar arrays / KIM Eunah¹, CHO Yunae¹, SOHN Ahnrum¹, LEE Y.U.¹, PARK Hyeong-Ho², KIM Joondong³, WU J.W.¹, KIM Dong-Wook*¹(¹Dept. of Physics, Ewha Womans University, ²Korea Advanced Nanofab Center (KANC), ³Dept. of Electrical Engineering, Incheon National University)

P1-ap.127*

Synthesis and Characterizations of Copper Phosphide-Graphene Heterostructure / CHOE Jeongheon¹, LEE Yangjin¹, YOON Jun-Yeong¹, JEONG Hu Young², KIM Kwanpyo*¹(¹Department of Physics, Ulsan National Institute of Science and Technology (UNIST), ²UNIST Central Research Facilities (UCRF), Ulsan National Institute of Science and Technology (UNIST))

P1-ap.128

Electrical transport of single layer reduced graphene oxide / PARK MIN¹, HONG Sung Ju³, KANG Hojin², KIM Byung Hoon⁴, PARK Yung Woo*²(¹Graduate school of convergence science and technology Seoul National University, ²Department of Physics and Astronomy Seoul National University, ³Institute for Physics University of Hanover, ⁴Department of Physics Incheon National University)

P1-ap.129

Apparent Power Law Scaling in Single Carbonized Polymer Nanofibers / 김경호¹, LARA-AVILA Samuel², 강호진¹, HE Hans², Eklöf Johnas³, 홍성주¹, 박민¹, MOTH-POULSEN Kasper³, MATSUSHITA Satoshi⁴, AKAGI Kazuo⁴, KUBATKIN Sergey², PARK Yung Woo^{*1}(¹Department of Physics and Astronomy, Seoul National University, ²Department of Microtechnology and Nanoscience, Chalmers University of Technology, ³Department of Chemistry and Chemical Engineering, Chalmers University of Technology, ⁴Department of Polymer Chemistry, Kyoto University)

P1-ap.130*

Efficient optimization for ultrathin metamaterial perfect absorbers at VHF and THz bands / KHUYEN B. X.¹, TUNG B. S.¹, YOO Y. J.¹, KIM Y. J.¹, KIM K. W.², RHEE J. Y.³, LAM V. D.⁴, LEE Y. P.^{*1}(¹Department of Physics, Hanyang University, Seoul, South Korea, ²Department of Information Display, Sunmoon University, Asan, Korea, ³Department of Physics, Sungkyunkwan University, Suwon, Korea, ⁴Institute of Materials Science, Vietnam Academy of Science and Technology, Hanoi, Vietnam)

P1-ap.131

Observation of a water droplet motion by using oxide nanowire transistors covered by a nanofiber mesh / LEE Jonghun¹, YEO Chang Su², LIM Taekyung¹, PARK Sangyoon^{*2}, JU Sanghyun^{*1}(¹Department of Physics, Kyonggi University, ²Advanced Institutes of Convergence Technology, Seoul National University)

P1-ap.132

Detection of chemical substances in water by using oxide nanowire transistors covered by a three dimensional graphene / LIM Taekyung, LEE Jonghun, LEE Jaejun, JU Sanghyun^{*}(Department of Physics, Kyonggi University)

P1-ap.133*

Flexible, Transparent, and High-Performance Microsupercapacitors Based on as Waterproof Energy Storage Devices / WEN He, KANG Dae Joon^{*}(Department of Physics and Interdisciplinary Course of Physics and Chemistry, Sungkyunkwan University)

P1-ap.134*

Electromagnetically-induced transparency-like effect in a bending resonators / HWANG J. S.¹, YOO Y. J.¹, KIM Y. J.¹, SON H. M.¹, KIM K. W.², RHEE J. Y.³, PARK S. Y.⁴, LEE Y. P.^{*1}(¹Dept. of Physics, Hanyang University, Seoul 133-791, ²Dept. of Information Display, Sunmoon University, Asan 336-708, ³Institute of Basic Sciences and Dept. of Physics, Sungkyunkwan University, Suwon 446-746, ⁴Advanced Institutes of Convergence Technology, Seoul National

P1-ap.135*

위상마이크를 이용한 음파간섭무늬의 시각화 연구 / 김소희, 함성길, 김나경, 김영유, 이기원*(공주대학교 물리학과)

P1-ap.136*

Flexible perfect absorber, utilizing layered-structure metamaterial / SON HyeMi¹, YOO YoungJoon¹, KIM YoungJu¹, HWANG JiSub¹, RHEE JooYull², KIM KiWon³, PARK SangYoon⁴, LEE YoungPak^{*1}
(¹Department of Physics, Quantum Photonic Science Research Center and RINS, Hanyang University, ²Sungkyunkwan University, Suwon, Korea., ³Sunmoon University, Asan, Korea, ⁴Seoul National University, Suwon, Korea)

P1-ap.137*

Triple-band metamaterial absorber based on the toothed-wheel structure / KIM Young Ju¹, YOO Young Joon¹, HWANG Ji Sub¹, SON Hye Mi¹, RHEE Joo Yull², KIM Ki Won³, PARK Sang Yoon⁴, LEE YoungPak^{*1}(¹Department of Physics, Hanyang University, ²Department of Physics, Sungkyunkwan University, ³Department of Information Display, Sunmoon University, ⁴Advanced Institutes of Convergence Technology, Seoul National University)

P1-ap.138*

Non-volatile resistive memory array using aluminum oxide on a flexible tape substrate / LEE Woocheol, JANG Jingon, SONG Younggul, YOO Daekyoung, KIM Youngrok, LEE Takhee*(Department of Physics and Astronomy, Seoul National University)

P1-ap.139

열음극의 전류밀도 측정과 관련 파라미터 계산 / 공형섭¹, 이병준^{*1}, 주영도¹, 도주호², 김태은², 최나경², 김민수², 임재원², 이형철³(¹포항공속기연구소, ²포항 두호고등학교, ³경북대학교 물리학과)

P1-ap.140

브레이크 캘리퍼 내부 검사를 위한 비전시스템 개발 / 권경훈*, 추형곤, 김진영, 강준희(인천대학교 물리학과)

P1-ap.141*

반사판을 이용한 해상용 LED등명기의 광학 설계 / 주정식, 박진영, 양현경*
(부경대학교 LED융합공학과)

P1-ap.142

Local Heating Effect on Few-Layer MoTe₂ Flake Transistor / 이관무¹, 주민규², 서동석^{*1}(¹성균관대학교 에너지과학과, ²성균관대학교 나노구조물리연구단 (CINAP), 기초과학연구원 (IBS))

P1-ap.143*

Improvement of voltage linearity of capacitors through stacked structure and annealing process / KWON Young-Sun, CHUN Min Chul, SHIN Hyejin, KANG Bo Soo*(Department of Applied Physics Hanyang University)

P1-ap.144*

Influence of post annealing on the response/recovery time of photodetectors based on polycrystalline MoS₂. / SHIN Hyejin, CHUN Min Chul, KWON Young-Sun, KANG Bo Soo*(Department of Applied Physics, Hanyang University, Ansan 426-791)

P1-ap.145

LiF:Mg,Cu,Si와 LiF:Mg,Cu,P의 방사선 및 열자극 발광의 측정 및 분석 / 박창영¹, 고지영¹, 박용국¹, 정기수^{*1}, 장인수², 이정일², 김장렬²(¹경상대학교 물리학과, ²한국원자력연구원)

P1-ap.146

Al₂O₃:C의 방사선 및 열, 빛의 자극 발광특성 / 박용국¹, 고지영¹, 박창영¹, 정기수^{*1}, 이정일², 김장렬²(¹경상대학교 물리학과, ²한국원자력연구원)

P1-ap.147

Al₂O₃:C의 방사선 및 열, 빛의 자극발광의 발광과정 해석 / 고지영¹, 박용국¹, 박창영¹, 정기수^{*1}, 이정일², 김장렬²(¹경상대학교 물리학과, ²한국원자력연구원)

P1-ap.148

Electroforming 방법을 이용한 WO_x 전극의 스마트 슈퍼캐패시터 특성 향상 / 김종민, 이성우, 조상은, 조용철, 우현석, Abu Talha A. A, Harish. S. Chavan, Akbar I. Inamdar, Sambhaji M. Pawar, 김형상, 임현식*(동국대학교 반도체과학과)

P1-ap.149

열처리 온도에 따른 ITO/Ag-Pd-Cu/ITO 박막의 특성변화 연구 / 박소하, 윤형도¹, 정경호², 서용곤^{*1}(¹전자부품연구원 나노소재부품연구센터, ²인트리(주))

P1-ap.150

Nanogenerators consisting direct-grown Pb(Zr,Ti)O₃ nanoparticles on multi-walled carbon nanotubes for energy harvesting / CHO Samyeon¹, HAN Jinkyu¹, JEON Dohyun¹, KANG Sinwook¹, BU Sangdon^{*1}, MYUNG Sung², LIM Jongsun², CHOI Moonkang³, LEE Minbaek³, LEE Minku⁴(¹Department of Physics, Chonbuk National University, ²Thin Film Materials Research Group, Korea Research Institute of Chemical Technology (KRICT), ³Department of Physics, Inha University, ⁴Nuclear Materials Development Division, Korea Atomic Energy Research Institute (KAERI))

P1-ap.151*

Synthesis of Highly Crystalline Hexagonal Boron Nitride for Graphene Transistors / MIN Kyung Hyun^{1,2}, PARK Sungchan¹, SEO Tae Hoon¹, CHO Hyunjin¹, SUH Eun-Kyung^{*2}, KIM Myung Jong^{*1}(¹Korea Institute of Science and Technology, ²School of Semiconductor and Chemical Engineering, Chonbuk National University)

P1-ap.152*

Hydrogen storage with Li-intercalated graphene oxide. / SON Seungwook¹, IHM Jisoon^{*2}(¹Department of Physics Seoul National University, ²Department of Physics POSTECH)

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Presentation : 2016. 10. 19 Wednesday 18:00 - 19:30

Place: Multipurpose Hall

P1-at.001

이종 핵종 이원자 분자 초미세 구조 분석 연구 / 김진태*(조선대학교 광기술공학과)

P1-at.002

Multi-sublevel effect on the second-order correlation of a single-atom-cavity system / KIM Jinuk, AN Kyungwon*(Department of Physics and Astronomy Seoul National University)

P1-at.003

Gaussian 파속을 이용한 시간의존 Schrodinger 방정식의 계산: 문턱위이온화와 고차조화파발생(1차원) / 변창우^{*1}, 최낙렬¹, 이민호¹, 김대성²(¹금오공과대학교 교양교직과정부, ²경기과학기술대학교)

P1-at.004

Theoretical analysis of Atom interferometer gyroscope / YIM Sin Hyuk*, KIM Tae Hyun, LEE Sangkyung, SHIM Kyu Min(Agency for Defense Development)

P1-at.005*

H-wire trap to improve atom number in BEC state / MIN Donghoon, KIM Jungbog*, KANG Sugtae, SHARMA Ashish Kumar, JUNG Sangmin(Department of Physic Education, Korea National University of Education)

P1-at.006*

Low velocity atomic beam from a pyramidal magneto-optical trap with retro optics / JUNG Sangmin, KIM Jungbog*, KANG Sugtae, MIN Donghoon, SHARMA Ashish Kumar(Department of Physic Education, Korea National University of Education)

P1-at.007*

Reciprocity and time-reversal symmetry in quantum reection of atomic matter-waves from a diffraction grating / KIM LeeYeong¹, JIN ByungGwon², ZHAO BumSuk^{*1, 2}(¹Department of Physics Ulsan National Institute of Science and Technology (UNIST), ²Department of Chemistry Ulsan National Institute of Science and Technology (UNIST))

P1-at,008*

Key rate enhancement using qutrit states for uncharacterized quantum key distribution / JO Yonggi¹, SON Wonmin^{*1, 2}(¹Department of Physics, Sogang University, ²Department of Physics, University of Oxford)

P1-at,009

Investigation of optimal discrimination of 2 & 3 qubit states under a depolarization channel. / 김지환, 권영현*(한양대학교 응용물리학과)

P1-at,010*

유전 알고리즘을 이용한 X-Junction 이온트랩 칩의 RF 전극 설계 / 박윤재¹, 이민재¹, 박주호¹, 홍석준¹, 정창현¹, 권영대¹, 안준식², 김태현², 조동일^{*1}(¹서울대학교 전기정보공학부, 자동화시스템공동연구소(ASRI), 반도체공동연구소(ISRC), ²SK Telecom Quantum Tech, Lab.)

P1-at,011

이온트랩 칩 위에서의 2-Qubit 양자 연산 구현을 위한 Raman-transition-induced Rabi Oscillation 측정 / 권영대¹, 안준식², 홍석준¹, 이민재¹, 박윤재¹, 조동일¹, 김태현^{*2}(¹서울대학교 자동화시스템공동연구소, ²SK Telecom, Quantum Tech, Lab.)

P1-at,012

람다 시스템에서 펄스광의 원편광 변화에 따른 EIT-EIA 변환 실험 / 양승철, 노흥렬*(전남대학교 물리학과)

P1-at,013

Analytical study of polarization spectroscopy for the $J_g=0 \rightarrow J_e=1$ transition / NOH Heung-Ryoul*(Department of Physics, Chonnam National University)

P1-at,014*

Analysis of electromagnetically induced transparency in a V-type system of ^{87}Rb / 강현중, 노흥렬*(전남대학교 물리학과)

P1-at,015

Cross Sections for Electron Collisions with NF_3 / 송미영¹, 윤정식¹, 조혁², KARWASZ G. P.³, KOKOOLINE V.⁴, NAKAMURA Y.⁵, TENNYSON J.⁶(¹국가핵융합연구소, ²충남대학교, ³University Nicolaus Copernicus, Poland, ⁴University of Central Florida, USA, ⁵Tokyo Denki Univ., Japan, ⁶University College London, UK)

P1-at,016

자화전자빔을 이용한 총산란단면적 측정 / 편해욱¹, 김대철², 김용현², 최영락², 송미영², 김영우², 윤정식², 조혁^{*3}, J. P. Sullivan⁴, S. J. Buckman⁴(¹군산대학교, ²핵융합연구소, ³충남대학교, ⁴Australian National University)

Hanging posters: 2016. 10. 19 Wednesday 13:00 – 10. 20 Thursday 12:00

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Place: Multipurpose Hall

P1-co.101*

Electronic structures of $\text{CeM}_2\text{Al}_{10}$ ($\text{M}=\text{Fe}, \text{Ru}, \text{Os}$): Kondo insulator or not? / NAM Taesik, KIM Kyoo*, KANG Chang-Jong*
(Department of Physics, POSTECH, Pohang, 37673, KOREA)

P1-co.102

Doping dependent electronic correlations in FeSe : DFT+DMFT study / Young-Woo Choe^{1,2}, Hyoung Joon Choi^{1,2}(¹Department of Physics and IPAP, Yonsei University, Seoul 03722, Korea, ²Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University, Seoul)

P1-co.103*

Effects of Diffusion and Diffusionless Ionic Gate Bias on Strongly-Correlated Properties of Vanadium Dioxide / KALEEM Abbas, KANG Dae Joon*(Department of Physics and Energy Science, Sungkyunkwan University)

P1-co.104*

Subtle Correlations Between Phase Transition and Charge Carrier Dynamics in Epitaxial n- type VO_2 /p-type $\text{GaN}/\text{Al}_2\text{O}_3$ Thin Films / BAE Garam, SOHN Minkyun, JEON Soyeon, KANG Dae Joon*(Department of Physics, Sungkyunkwan University)

P1-co.105*

Unique Surface Metal Insulator Transition Behaviors of 2-dimensional V_2O_5 Nanosheets / SOHN Minkyun, YAN Ya Ping, BAE Garam, KANG Dae Joon*(Department of Physics and Interdisciplinary Course of Physics and Chemistry, Sungkyunkwan University)

P1-co.106

Magnetic exchange bias effect near room temperature in perovskite $\text{YFe}_{0.6}\text{Mn}_{0.4}\text{O}_3$ / KIM Mikyung, MOON Jaeyoung, OH Sanghyup, LEE Nara*, CHOI Youngjai*(Department of Physics and IPAP Yonsei University)

P1-co.107*

Paramagnetic properties in a strong spin-orbit-coupled $\text{Jeff}=0$ double-perovskite: Ba_2YIrO_6 / GONG Hoshin¹, KIM Kyoo², KIM Beom Hyun¹, MIN Byung Il¹(¹Department of Physics, Pohang University of Science and Technology (POSTECH), Pohang 790-784, Korea, ²Max Planck POSTECH/Korea Research Initiative MPPC CPM, POSTECH, Pohang 790-784, Korea)

P1-co.108

Electronic structure study of $\text{Bi}_{1.96}\text{Gd}_{0.14}\text{Se}_3$ by Angle-Resolved Photoelectron Spectroscopy / LEE Hwangho^{1,2}, KO Kyung-Tae², LEE Seungseok^{2,3}, PARK Jae-Hoon^{2,3}, KIM Jinsu⁴, KIM S.W.⁴, JUNG Myung-Hwa⁴(¹Department of physics, Pohang University of Science and Technology, ²Max Plank POSTECH Center for Complex Phase Materials, Pohang University of Science and Technology, ³Division of Advance Materials Science, Pohang University of Science and Technology, ⁴Department of physics, Sogang University)

P1-co.109*

Polarized optical spectroscopy on quasi-one-dimensional BaFe_2Se_3 / ROH Seulki, SHIN Soohyeon, LEE Seokbae, PARK Tuson, HWANG Jungseok*(Department of Physics, Sungkyunkwan University)

P1-co.110

Carrier Dynamic Study of Artificial Honeycomb Copper Structure / JO YoungChan¹, KIM Jaewon³, KIM Jin Young³, JEONG Se Young², KIM Jae Hoon^{*1} (¹Department of Physics and Institute of Physics and Applied Physics, Yonsei University, ²Department of Cogno-Mechatronics Engineering, Pusan National University, ³School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology(UNIST))

P1-co.111

Soft x-ray absorption study on hexagonal multiferroic $\text{Lu}_{0.5}\text{Sc}_{0.5}\text{FeO}_3$ / KIM Jeong Kyu^{1,2}, KIM Donghwan^{1,2}, WANG Yazhong³, CHEONG Sang-Wook^{3,4}, KO Kyung-Tae^{1,2}, PARK Jae-Hoon^{*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.112

Doping-dependent optical conductivity in $\text{NiS}_{2-x}\text{Se}_x$ / SON Jaeseok^{*1,2} (¹Center for Correlated Electron System, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, Seoul National University)

P1-co.113*

Tuning manganese valence state of epitaxial $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ thin films / RYU Sangkyun¹, LEE Joonhyuck¹, HERKLOTZ Andreas², KIM Younghak³, LEE Ho Nyung², KIM Jae-Young³, JEON Tae-Yeol³, CHO Jinhyung⁴, PARK Sungkyun¹, JEEN Hyoungjeen^{*1}(¹Department of Physics, Pusan National University, ²Materials Science and Technology Division, Oak Ridge National Laboratory, ³Pohang accelerator laboratory, Pohang University of Science and Technology, ⁴Department of Physics Education, Pusan National University)

P1-co.114*

Thickness-driven metal-to-semiconductor transition in epitaxial MoO₂ films / AHN Eunyoung¹, LEE Joonhyuck¹, CHO JinHyung², KIM Younghak³, KIM Jae-Young³, LEE Inwon⁴, JEEN Hyoungjeen^{*1}(¹Department of Physics, Pusan National University,, ²Department of Physics Education, Pusan National University, ³Pohang Accelerator Laboratory, Pohang University of Science and Technology, ⁴Department of Naval Architecture and Ocean Engineering, Pusan National University)

P1-co.115

Non-magnetic dilution effects on the Kitaev honeycomb lattice α -RuCl₃ / CHOI Kwang-Yong^{*1}, DO Seung-Hwan¹, JANG Tae-Hwan^{2, 3}, JI Sungdae³, PARK JaeHoon^{2, 3, 4}(¹Department of Physics, Chung-Ang University, ²Dept. of Physics, Pohang University of Science and Technology, ³Max Plank POSTECH Center for Complex Phase Materials, POSTECH, ⁴Division of Advanced Materials Science, POSTECH)

P1-co.116

Doping and temperature dependence of the electronic structure of (Sr_{1-x}La_x)₂IrO₄ / 서정현¹, 안기현¹, 송승재¹, T. Hogan², S. D. Wilson^{2, 3}, 문순재^{*1}(¹한양대학교 물리학과, ²Department of Physics, Boston College, ³Department of Materials, University of California)

P1-co.117

High pressure synthesis and magnetic/dielectric properties of PbVO₃ / KIM J. H., MOON J. Y., CHOI Y. J., LEE N.*(¹Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea)

P1-co.118

Chiral anomaly and current jet / LEE Yongwoo, JEONG Yoon Hee* (Department of Physics POSTECH)

P1-co.119*

First-principles constrained RPA calculations of correlation strengths in 3d/4d/5d transition metal oxide heterostructures. / JANG Seung Woo¹, KINO Hiori², KOTANI Takao³, HAN Myung Joon^{*1, 4} (¹Department of Physics, KAIST, Daejeong 305-701, Korea, ²National Institute for Materials Science, Sengen 1-2-1, Tsukuba, Ibaraki 305-0047, Japan, ³Department of Applied Mathematics and Physics, Tottori University, Tottori 680-8552, Japan, ⁴KAIST Institute for the NanoCentury, KAIST, Daejeon 305-701, Korea)

P1-co.120

Magnetic force theorem of Heisenberg exchange parameter within non-orthogonal localized pseudoatomic orbital basis method / Hongkee Yoon, Taek Jung Kim, Jae-Hoon Sim, Seung Woo Jang, Myung Joon Han* (Department of Physics, KAIST)

P1-co.121*

Orbital-decomposed magnetic interaction based on the first-principles magnetic force theory / Hongkee Yoon, Taek Jung Kim, Jae-Hoon Sim, Seung Woo Jang, Myung Joon Han*(KAIST, Dep. Physics)

P1-co.122*

Metal-Insulator Transition and the Role of Electron Correlation in FeO_2 / JANG Bo Gyu¹, KIM Duck Young^{*2}, SHIM Ji Hoon^{*1,3}(¹Department of Chemistry, Pohang University of Science and Technology, ²Center for High Pressure Science and Technology Advanced Research (HPSTAR), ³Department of Physics and Division of Advanced Nuclear Engineering, Pohang University of Science and)

P1-co.123*

Strain engineering of hybrid improper ferroelectricity in $\text{Ca}_3\text{Ti}_2\text{O}_7$ thin film / KIM Jeong Rae^{*1}(¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 08826, Republic of, ²Department of Physics and Astronomy, Seoul National University (SNU), Seoul 08826, Republic of Korea)

P1-co.124*

Double-Layer Buffer Template to Grow Commensurate Epitaxial BaBiO_3 Thin Films / LEE Han-Gyeol^{1,2}, KIM Yoonkoo³, HWANG Sang Woon³, KIM Gideok^{1,2}, KANG Tae Dong^{1,2}, KIM Minu^{*1,2}, KIM Miyoung³, NOH Tae Won^{*1,2}(¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), ²Department of Physics and Astronomy, Seoul National University (SNU), ³Department of Material Science and Engineering, Seoul National University (SNU))

P1-co.125

Ferroelectricity induced by short range magnetic exchange interaction / KASHIR Alireza*, JEONG Yoon Hee(Department of Physics, POSTECH)

P1-co.126*

Phase change between metallic and insulating magnetic domain wall in epitaxial $\text{Sm}_2\text{Ir}_2\text{O}_7$ film / KIM Woo Jin^{*1,2}, GRUENEWALD J. H.³, KORNETA O. B.^{1,2}, SEO S. S. A.³, NOH Tae Won^{1,2}(¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), Republic of Korea, ²Department of Physics and Astronomy, Seoul National University, Republic of Korea, ³Department of Physics and Astronomy, University of Kentucky, Lexington, KY 40506, USA)

P1-co.127*

Strain effect on electronic structure of epitaxial BaBiO_3 thin films / MUHAMMAD talha, JEONG yoon hee*(Department of Physics POSTECH)

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P1-co.201

Investigation of polymorphism for amorphous and semi-crystalline poly (-ethylene terephthalate-) using high-pressure Brillouin spectroscopy / KO Young-Ho^{1,2}, AHART Muhatr³, KO Jae-Hyeon⁴, SONG Jonghyun^{*2}(¹4-2-2, Agency for Defense Development, ²Department of Physics, Chungnam University, ³Geophysical Laboratory, Carnegie Institution of Washington, ⁴Department of Physics, Hallym University)

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P1-co.202

Fluorescence imaging of the transition of dsDNA to ssDNA / OH Jungsic, LEE Jong-Bong^{*}(Department of Physics, POSTECH, Pohang, Korea)

P1-co.203*

Ab initio calculations of selective adsorption of carbon monoxide and oxygen molecules on 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)

P1-co.204

Two conformational states in D-shaped DNA: From theory to experiment / LEE O.-chul¹, KIM Cheolhee², KIM Jae-Yeol¹, LEE Nam Ki^{1,3}, SUNG Wokyung^{*1,4}(¹Department of physics, POSTECH, Pohang, Korea, ²Education and Research office, Daegu National Science Museum, Daegu, Korea, ³School of Interdisciplinary Bioscience & Bioengineering POSTECH, Pohang, Korea, ⁴IBS center for self-assembly and complexity and Technology, Pohang, Korea)

P1-co.205

Demonstrating single-molecule FRET probe for measuring short-range molecular interactions / 모우리^{1,2}, 김경태³, 이종욱², 이상화^{*1}(¹광주과학기술원 고등광기술연구소, ²전남대학교 물리학과, ³광주과학기술원 화학과)

P1-co.206*

Wavelength dependence of the refractive index of single crystal tetramethyltetraselenafulvalene / KWON Seonho, BAE Junwan, LEE Injae^{*}(Department of Physics, Chonbuk National University)

P1-co.207*

Investigating the synergistic effect of the co-existence of α -Syn monomers and oligomers in Parkinson's disease / YOO Gyeongji¹, LEE Nam Ki^{*1,2}(¹School of Interdisciplinary Bioscience and Bioengineering (IBIO), POSTECH, ²Department of Physics, POSTECH)

P1-co.208*

The Flexibility Measurement of DNA Using Single Molecule FRET. / YEOU Sanghun¹, KIM Cheolhee², JOO Sungmin¹, LEE Nam Ki^{*1,3}(¹Department of Physics, POSTECH, ²Education and Research office, Daegu National Science Museum, ³School of Interdisciplinary Bioscience and Bioengineering, POSTECH)

P1-co.209*

Mechanistic understanding of dynamin-like GTPase Sey1 related to ER fusion through FRET based single-vesicle lipid-mixing assay / KIM Kyung Tae^{1,2}, MOON Yeojin³, LEE Kang Taek², JUN Youngsoo³, LEE Sanghwa^{*1}(¹Advanced Photonics Research Institute Gwangju Institute of Science and Technology, ²Department of Chemistry Gwangju Institute of Science and Technology, ³School of Life Sciences Gwangju Institute of Science and Technology)

P1-co.210

Single-molecule studies on maltose transport system with maltose binding protein / LEE Jongjin^{1,2}, HOHNG Sungchul^{*1,2}(¹Department of Physics and Astronomy, Seoul National University, Seoul, Korea, ²National Center for Creative Research Initiatives, Seoul National University, Seoul, Korea)

P1-co.211

DNA exonuclease sensing platform by the interaction between graphene oxide and fluorescence-labeled DNA / SONG Jayeon, LEE Gwangrog^{*}(Department of Biomedical Science and Engineering at Gwangju Institute of Science and Technology)

P1-co.212

Functional complex formation and mechanical melting by the interaction between 5'-phosphate and λ exonuclease / YOO Jungmin, LEE Gwangrog^{*}(Life Sciences at Gwangju Institute of Science and Technology)

P1-co.213

The Characterization of Cooperative Unwinding by SARS-CoV nsp13 Helicase / YOO Jeongmin, IM Hyeryeon, LEE Gwangrog^{*}(Life Sciences at Gwangju Institute of Science and Technology)

P1-co.214*

The Measurement of Force exerted by DNA sliding clamps / KIM Byungju¹, HAMDAN Samir M², FISHEL Richard³, LEE Jong-Bong^{*1} (¹Department of Physics, Pohang University of Science & Technology (POSTECH), ²Biological and Environmental Science and Engineering, KAUST, Saudi Arabia, ³Department of Molecular Virology, Immunology and Medical Genetics, The Ohio State University, Columb)

P1-co.215

Single Molecule Studies on tR2 Terminator / KANG Wooyoung¹, UHM Heesoo¹, HOHNG Sungchul^{*1, 2} (¹Department of Physics and Astronomy, Seoul National University, ²National Center of Creative Research initiatives, Seoul National University)

P1-co.216

SMFRET analysis of Nucleosome Remodeling by CHD1 / KIRK Jaewon, HOHNG Sungchul^{*} (Seoul National University, Department of Physics and Astronomy)

P1-co.217*

Single-molecule co-IP imaging of EGFR derived from Extracellular Vesicles / SUNG Mi Sook^{1, 2}, JUNG Jikhan³, JEONG Cherlhyun⁴, PARK Ji-Ho³, YOON Tae-Young^{*1} (¹Y-IBS Yonsei University, ²Department of Physics KAIST, ³Department of Bio and Brain Engineering KAIST, ⁴KIST)

P1-co.218

miRNA detection by fluorescence in situ hybridization (FISH) / SHIN Soochul, HOHNG Sungchul^{*} (Department of physics and astronomy, Seoul National University)

P1-co.219

Reconstitution of RNA Transcription Machinery and Co-transcriptional Effects of TPP Riboswitch Folding / UHM Heesoo^{1, 3}, KANG Wooyoung^{1, 3}, HOHNG Sungchul^{*1, 2, 3} (¹Department of Physics and Astronomy, Seoul National University, Seoul, Republic of Korea, ²Department of Biophysics and Chemical Biology, Seoul National University, Seoul, Republic of Korea, ³National Center of Creative Research initiatives, Seoul National University, Seoul, Republic of Korea)

P1-co.220*

Developing single molecule well-type assay with high-throughput device (SWAT) for probing protein-protein interactions / PARK Sangwoo^{1, 2}, LEE Hong-Won³, RYU Ji Young^{2, 3}, YOON Tae-Young^{*3} (¹Department of Physics, KAIST, ²Proteina, ³Yonsei University)

P1-co.221

Single-Molecule Studies of UvrA-UvrB damage sensor during Nucleotide Excision DNA Repair in E.coli / LEE Seung-Jae, LEE Ju-Yeon, HOHNG Sungchul* (Department of Physics Seoul National University)

P1-co.222

Pitch change dynamics of chiral nematic liquid crystal / KIM Sung-Jo*^{1,2}, KO Myeong Ock¹, KIM Jong-Hyun¹, JEON Min Yong¹ (¹Department of Physics, Chungnam National University, ²Center for Soft and Living Matter, Institute for Basic Science)

P1-co.223

Building signaling complexes on pulled down HER2 dimers / CHA Minkwon, CHOI Byung San, YOON Tae-young* (Department of Physics KAIST (Y-IBS))

P1-co.224

Imaging of frozen hydrated biological specimens at nanoscale resolution / NAM Daewoong¹, KIM Yoonhee², KIM Junhyung³, AHN Kangwoo³, JEON Byeong-hyun¹, SUNG Daeho¹, JEONG Cheolho¹, CHO Dohyung¹, CHOI Byeong-cheol¹, NOH Do Young^{2,3}, SONG Changyong*¹ (¹Department of Physics, Pohang University of Science and Technology, ²School of Materials Science and Engineering, Gwangju Institute of Science and Technology, ³Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

P1-co.225

The Influence of Chromatin Structure on Energy Dissipation and Dynamic Behavior / KIM Min Hyeok, HYEON Changbong* (Department of computational Science KIAS)

P1-co.226*

High speed Magnetic particles tracking system with scattering solutions. / YOO JangHyun², KIM Hyun-Woo², YOON Tae-Young*¹ (¹Yonsei university, Center for nano-medicine (Y-IBS), ²Department of physics, KAIST)

P1-co.227*

Single-Molecule Mechanical Response of No Mechanoreceptor Potential C Channel Studied with Magnetic Tweezer / KIM Haesoo, YOON Tae-Young* (Department of Innovative Nanoscience and Nanomedicine, Yonsei University)

P1-co.228*

Super-Resolved Nanostructure of Intercellular Nanotubes / CHANG Minhyeok, OH Jaeho, LEE Jong-Bong* (Department of Physics, POSTECH)

P1-co.229

Super-resolution Imaging of Neuron in Mouse with Line-scan Confocal Microscope / 박상준¹, 강우영¹, 김시용², 강봉균², 홍성철^{*1}(¹서울대학교 물리천문학부, ²서울대학교 생명과학부)

P1-co.230

Effects of dimethyl sulfoxide on surface water near phospholipid bilayers / LEE Yuno¹, PINCUS Philip A.², HYEON Changbong^{*1}(¹School of Computational Sciences, Korea Institute for Advanced Study, ²Physics and Materials Departments, University of California, Santa Barbara, California)

P1-co.231

NAP1L1 promotes dynamic CSB-DNA interactions and the nucleosome remodeling / LEE Ju Yeon¹, LAKE Robert J.², BOHR Vilhelm A.³, FAN Hua-Ying², HOHNG Sungchul^{*1}(¹Department of Physics and Astronomy, Seoul National University, Seoul 08826, Republic of Korea, 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)

P1-co.232

a Novel Observation Technique of Amyloid Fibril / GANG Geunwon^{*1}, OGAWA Takashi¹, THIEU Minh Thu², CHO boklae²(¹Department of Physics Chungnam National University, ²Center for Advanced Instrumentation KRISS)

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P1-nu.001

The phase transitions in the even $^{148-156}\text{Sm}$ nuclei / LEE SuYoun*, LEE YoungJun, LEE JongHwan(Department of Physics Dongeui University)

P1-nu.002*

Large area position-sensitive ionization chamber for beam tracking system for KOBRA. / 김민주¹, 채경육^{*1}, 차수미¹, 이은지¹, 이재하¹, 김다희², 임선인², 한인식³(¹Department of Physics, Sungkyunkwan University, ²Department of Physics, Ewha Womans University, ³Department of Science Education, Ewha womans University)

P1-nu.003

Dead time analysis for neutron capture cross-section measurement by using an NaI(Tl) detector / LEE Ji eun¹, JANG Heejin¹, RO Taeik^{*1}, KIM Guinyun², KIM Kwangsoo², LEE Man Woo³, KANG Yeong-Rok³, SHIN Sung Gyun⁴, CHO Moo Hyun⁴(¹Department of Physics Dong-A University, ²Department of Physics Kyungpook National University, ³Dongnam Institute of Radiological and Medical Science, ⁴Division of Advanced Nuclear Engineering, POSTECH)

P1-nu.004

Measurement of Delayed Gamma-Ray Energy Spectrum from Residual Nuclide for $^{nat}\text{Pb}(p,x)$ Reaction by 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.005*

Measurements of Cross Sections for ^{209}Bi (n, 4n) reactions with high energy neutrons produced by 30, 35, and 40 MeV protons / MIN Kyung Joo¹, BAK Sang-In¹, HAM Cheolmin¹, IN Eun Jin¹, KIM Do Yoon², MYUNG Hyunjung³, SHIM Chungbo³, SHIN Jae Won⁴, ZHOU Yujie¹, PARK Tae-Sun³, HONG Seung-Woo^{*3}, BHORASKAR V. N.⁵(¹Department of Energy Science, Sungkyunkwan University, ²VITZRO Nextech CO., LTD, ³Department of Physics, Sungkyunkwan University, ⁴Department of Physics, Soongsil University, ⁵Department of Physics, S.P. Pune University)

P1-nu.006*

Silicon isotope 에서의 양성자 비탄성 산란의 상대론적 분석 / 심숙이*, 정성현(공주대학교 물리학과)

P1-nu.007

한국형 테스트 블랑켓의 주요 구조재에 대한 중성자 입사 핵반응 평가 / 김형일*, 이철우, 문명환, 이영욱(한국원자력연구원 원자력데이터개발검증센터)

P1-nu.008

NaI(Tl) 섬광 검출기를 이용하여 차폐체의 두께에 따른 감마선 Bulid-up factor 측정 / 장희진, 이지은, 윤정란, 노태익*(동아대학교 신소재물리학과)

P1-nu.009

$\pi^+\pi^-$ partial wave analysis in central exclusive production at $\sqrt{s}=7$ TeV in the ALICE. / KIM Taesoo*, KANG Ju Hwan*(Department of Physics, Yonsei University)

P1-nu.010*

중이온 충돌에서의 능선 구조 / 윤태욱, 윤진희*(인하대학교 물리학과)

P1-nu.011*

Simulation to calculate differential cross section of electron-positron pair production & distribution of electron kinematics / 방혜선, 허경범, 권민정*(인하대학교 물리학과)

P1-nu.012

중이온가속기 라온의 QWR 저온유지모듈 내 지구 자기장 차폐에 관한 연구 / 차혁진*, 이민기, 천인우, 최석진(기초과학연구원 중이온가속기건설구축사업단)

P1-nu.013

Study on characterization of ISOL target ion source system at off-line test facility / HONG Sung Gwang^{*1}, PARK Sung Jong¹, HWANG Won Ju¹, JEONG Jae Won¹, LEE Jin Ho¹, SEO Chang Seog¹, KIM Yong Hak¹, ISHIYAMA Hironobu¹, YOON Jin Woo², KANG Byong Hyi¹, JEONG Sun Chan¹ (¹Rare Isotope Science Project, Institute for Basic Science, ²Center for Relativistic Laser Science, Institute for Basic Science)

P1-nu.014

EBIS 전하 증식기 진단용 에미턴스미터 개발 / 박영호¹, 손혁준^{1, 2}, Sergey Kondrashev¹, 김종원¹(¹기초과학연구원 중이온가속기건설구축사업단, ²한동대학교 첨단그린에너지환경공학과)

P1-nu.015

The measurement of concentration for the NIST sediment standard by photon activation analysis / KIM HyoJin^{1, 2}, RO Tae-Ik², KIM Guinyun³, KANG Yeong-Rok^{*1}(¹Research center, Dongnam Inst. of Radiological & Medical Sciences, ²Department of Physics, Dong-A University, ³Department of Physics, Kyungpook Nat. Univ)

P1-nu.016

The Calibration System for COSINE-100 Experiment / KIM Nam Young^{*}(Center for Underground Physics, IBS)

P1-nu.017*

Brigdeman Growth and Characterization of Ce-doped Cs₂LiGdBr₆ Crystals / JANG Jonghun¹, KIM Hongjoo^{*1}, ROOH Gul²(¹Department of Physics, Kyungpook National University, ²Abdul Wali Khan University, Pakistan)

P1-nu.018

Electron Beam Ion Source (EBIS) 전하 증식 장치의 이온 전송 구간 설계 / 손혁준^{1, 2}, 박영호², Sergey Kondrashev², 김종원², 정모세^{*3}(¹한동대학교 첨단그린에너지환경공학과, ²기초과학연구원 중이온가속기구축사업단, ³울산과학기술원 물리학과)

P1-nu.019

Measurement of the mobility-lifetime products of charge carriers and trap level in CdZnTe crystal / PHAN Vuong Quoc, KIM Joo hong^{*}(Department of Physics, Kyungpook National University)

P1-nu.020*

Recovery of Calcium Molybdate Powder from its Crystal Waste using Hydrochloric Acid / ARYAL Pabitra¹, KIM HongJoo^{*1}, GILYOVA Olga², KARKI Sujita¹, PARK HyangKyu²(¹Department of Physics, Kyungpook National University, ²Institute of Basic Science)

P1-nu.021

EPICS based local control system for ECR-IS & LEBT section at RISP / CHOI Suk^{*}, KIM Mijung, KIM Yong-Hak, LEE Jinho(RISP/IBS)

P1-nu.022

Development status of the 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, SHIN Taeksu(Rare Isotope Science Project, Institute for Basic Science)

P1-nu.023

Detection of thermal neutrons by using a MICROMEGAS detector
/ HAM Cheolmin¹, KIM Do Yoon³, BAK Sang-In¹, IN Eun Jin¹, SHIM Chungbo²,
PARK Tae-Sun², HONG Seung-Woo^{*2}(¹Department of Energy Science,
Sungkyunkwan University, ²Department of Physics, Sungkyunkwan University,
³VITZRO Nextech CO., LTD)

P1-nu.024*

Purification of commercial MoO₃ powder by using high vacuum sublimation method
/ KARKI Sujita¹, KIM HongJoo^{*1}, PARK HyangKyu²,
ARYAL Pabitra¹, GYLOVA Olga¹(¹Department of Physics, Kyungpook National
University, ²Institute for Basic Science)

P1-nu.025*

프로토타입 IF-target의 제어계측시스템의 설계연구 / 허성진^{1, 2}, 박영호^{*2},
김은산¹, 김장열² (¹고려대학교 가속기과학과, ²기초과학연구원)

P1-nu.026

Development of scintillation detectors for medical use / 심청보¹,
홍승우^{*1}, 박태선¹, 박상인²(¹성균관대학교 물리학과, ²성균관대학교 에너지과학과)

P1-nu.027

Growth and scintillation properties of Cs₂Mo₃O₁₀ single crystal
/ ARSHAD Khan, HONGJOO Kim^{*}(Department of Physics, Kyungpook National
University)

P1-nu.028

Measurements of 89Y(n,2n)88Y and 89Y(n,3n)87Y cross sections for fast neutrons by using the Korea Institute of Radiological and Medical Science MC-50 cyclotron
/ 인은진¹, 홍승우^{*2}, 박태선², Vasant Nagesh Bhoraskar³, 민경주¹, 함철민¹, 주옥결¹, 박상인¹, 김도윤¹, 신재원⁴
(¹성균관대학교 에너지과학과, ²성균관대학교 물리학과, ³Savitribai Phule Pune University, Department of Physics, ⁴송실대학교 물리학과)

P1-nu.029*

EBIS에 반사형 time-of-flight mass spectrometer에 대한 설계연구
/ Liu Hao-Lin^{1, 2}, 박영호^{*2}, 김은산¹, Sergey Kondrashev², 손혁준²(¹고려대학교
가속기과학과, ²기초과학연구원)

P1-nu.030

Developement status of large area (20cm * 20cm) PPAC at RAON
/ LEE Kwang Bok^{*}, AKERS Charles Anthony, KIM Eun Hee, KIM Young Jin,
RYU Min Sang, LEE Hyo Sang, PARK Jin Hyung(Institute for Basic Science)

P1-nu.031

Large Single Crystal Growing at CUP / RA Se Jin^{1,2}, KIM Dae Yeon¹, PARK Hyangkyu¹, KIM Yeongduk¹, KIM Hongjoo^{*2}(¹Center for Underground Physics, Institute for Basic Science, ²Department of Physics, Kyungpook National University)

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P1-op.001*

Mode-locked beam properties of an 80 MHz Ti:sapphire oscillator with tens of energy / LEE Shin-Yeong^{1,2}, KIM Kyung nam^{*1}, LEE Kitae¹, PARK Seong Hee¹, KIM Ha-Na^{1,3}, RYU Woo-Je^{1,4}, KIM Jeong Tae^{1,2}, KIM Mi hye¹, JEONG Young Uk¹(¹Center for Quantum Beam Based Radiation Research, Korea Atomic Energy Research Institute, ²Accelerator and nuclear fusion physical engineering, University of Science and Technology, ³Department of Physics, Chungnam National University, ⁴Department of Physics, Hannam University)

P1-op.002*

Investigation of the mode spectra in a hexapolar deformed liquid-jet microcavity / KIM Soyun, SHIN Younghoon, MOON Songky, KIM Jinuk, AN Kyungwon*(Department of Physics and Astronomy)

P1-op.003*

톨루엔 액체 코어 광섬유의 tapered diameter에 따른 광 투과 스펙트럼 변화 / 이현우, 황지현, 홍성진, 오경환*(연세대학교 물리학과)

P1-op.004

장적외선 영역에서의 은(Ag) 홀 배열 표면 플라즈몬 투과도 특성 변화 연구 / 박현빈, 이병우, 김하술*(전남대학교 물리학과)

P1-op.005

Active thermal fine laser tuning in a broad spectral range and optical properties of cholesteric liquid crystal / JEONG Mi-Yun*, KWAK Keumcheol(Department of Physics Gyeongsang Nat. Univ.)

P1-op.006

FDTD simulations to study ultrafast dynamics of electrons emitted from nano-structures / CHO Wosik^{*2}, KIM Kyung Taec^{*1,2} (¹Center for Relativistic Laser Science (CoReLS), Institute for Basic Science (IBS), ²Dept of Physics and Photon Science, Gwangju Institute of Science & Technology (GIST))

P1-op.007

Third-order Nonlinear Optical Properties in Disperse Orange 3 doped PMMA / WU Yang¹, SHIM Hyun Kwan², KIM Sun Il^{*1}(¹Department of Physics, Pukyong National University, ²Department of Chemistry, Pukyong National University)

P1-op.008*

Study on above-threshold photoemission from tungsten nanotips using few cycle laser pulses / CHOI Wookyong^{1,2}, KIM Kyung taec^{*1,2}

(¹Center for Relativistic Laser Science, Institute for Basic Science, Gwangju, Korea,

²Department of physics and photon science, Gwangju Institute of Science and Technology, Gwangju, Korea)

P1-op.009

Simulation study for Above-Threshold Ionization(ATI) based on Strong-Field Approximation(SFA) / SHIN Jeonguk^{1,2}, KIM Kyungtaec^{*1,2}

(¹Center for Relativistic Laser Science, Institute for Basic Science., ²Department of physics and photon science, Gwangju Institute of Science and Technology.)

P1-op.010

Transmittance of Long-Wavelength Infrared Surface Plasmon by Two dimensional Ag Hole Arrays on Flexible Substrates / LEE

Byungwoo, PARK Hyunbin, KIM Ha sul*(Department of Physics Chonnam University)

P1-op.011*

RGB 3색 LED 투광등 패턴 분석 및 광학 시뮬레이션에 관한 연구 /

김승은¹, 방광수², 정재훈², 안재현^{3, 4}, 김영심⁵, 정형식⁵, 김남훈⁶, 백준혁¹,

양승진¹, 권민기¹, 박종락^{*1}(¹조선대학교 광기술공학과, ²(주)다스디자인,

³(주)엘리디팩토리, ⁴전남대학교 전기공학과, ⁵조선대학교 경영학부, ⁶조선대학교

시각디자인학과)

P1-op.012*

300W급 경관조명용 LED 투광등 개발에 관한 연구 / 방광수¹, 정재훈¹,

안재현^{2, 3}, 김영심⁴, 정형식⁴, 김남훈⁵, 백준혁⁶, 김승은⁶, 양승진⁶, 권민기⁶,

박종락^{*6}(¹(주) 다스디자인, ²(주) 엘리디팩토리, ³전남대학교 전기공학과, ⁴조선대학교

경영학부, ⁵조선대학교 시각디자인학과, ⁶조선대학교 광기술공학과)

P1-op.013

LED 우산의 조명부 배광 해석 및 최적 배광을 위한 광학구조 설계 /

장경민¹, 양승진¹, 김승은¹, 백준혁¹, 김유신², 박종락^{*1}(조선대학교 광기술공학과,

²(주)속엔)

P1-op.014

레이저 조사 방법 변화를 이용한 레이저 유도 기계적 효과의 제어 / 백준혁,

박종락^{*}(조선대학교 광기술공학과)

P1-op.015

레이저 단일 펄스와 반복 펄스에 의한 피부 온도 변화 시뮬레이션에 관한

연구 / 양승진, 박종락^{*}(조선대학교 광기술공학과)

P1-op.016*

Fast 2D material layer-number counting based on quantum contrast estimation of optical image / LEE Jekwan, CHO Seungwan, LEE Seungmin, LEE Doeun, KIM Bum, NO Minji, BAE Hyemin, CHOI Hyunyong*(School of Electrical & Electronic Engineering Yonsei Univ.)

P1-op.017*

광단층영상을 이용한 자외선 광감성 유리의 노광 패턴 관찰 / 김주하¹, 이승석¹, 김영섭², 신동혁², 최은서^{*1}(¹조선대학교 자연과학대학 물리학과, ²애니모션텍 주식회사)

P1-op.018*

A computation framework for propagation of THz beam reflected from a metallic medium having a smaller size than the beam waist / HAN J. W., CHOI Y. G., LEE J. S.*(Department of Physics and Photon science, Gwangju Institute of Science and Technology)

P1-op.019

측면 발광형 POF 가공에 의한 LGP의 발광효과 분석 / 박소희*(조선대학교 물리학과)

P1-op.020

중적외선용 10X 줌 망원광학계 설계 및 공차해석 / 김정현¹, 김현규¹, 이종웅^{*2}(¹주)토피스, ²청주대학교 레이저광정보공학과)

P1-op.021

광섬유 스캐닝 방법을 이용한 Optical Resolution Photoacoustic Microscopy / 이진우¹, 박승호¹, 엄종현², 임승환¹, 이병하^{*1}(¹광주과학기술원 전기전자컴퓨터공학부, ²광주과학기술원 의생명공학과)

P1-op.022*

레이저를 이용한 초정밀 가공 기술 및 광학소자 응용 연구 / 최훈국^{1, 2}, 최운혁^{1, 2}, 임기동^{1, 2}, 김진태^{*1}, 손익부^{*2}(¹조선대학교 광기술공학과, ²광주과학기술원 고등광기술연구소)

P1-op.023

Super-resolution optical fluctuation imaging based on point illumination / PARK Chung Hyun, KIM Minkwan, CHO YongHoon*(Department of Physics KAIST)

P1-op.024*

레이저 충격 파닝 시 사각 빔 균질기의 DOF의 형상에 대한 연구 / 황승진, 김태신, 유태준*(한동대학교 첨단그린에너지환경학과)

P1-op.025*

Broadband coherent perfect absorption of epsilon-near-zero tunable indium tin oxide thin films in the near infrared /

KIM Tae Young¹, KIM Wonyoung¹, JUN Young Chul², HWANGBO Chang Kwon*¹
(¹Department of Physics, Inha University, ²School of Materials Science and Engineering, Ulsan National Institute of Science and Technology)

P1-op.026

Optimal Photo-excitation Condition for Terahertz Modulation on Organic-Inorganic Hetero-junction Structure /

이중욱*¹, ²(¹전남대학교 물리학과, ²GIST, APRI)

Hanging posters: 2016. 10. 19 Wednesday 13:00 – 10. 20 Thursday 12:00

Presentation : 2016. 10. 19 Wednesday 18:00 - 19:30

Place: Multipurpose Hall

P1-pa.001***Solutions in $N=1$ $D=7$ gauged supergravity and their higher dimensional origins** / KIM Nakwoo*, SHIM Myungbo(Department of Physics Kyung Hee University)**P1-pa.002*****Analysis of X** / LEE Sanghyun¹, YANG Jeonghun², LEE Su-Kyeong^{*1}, KIM Eun-Joo^{*1}(¹Department of Physics Education Chonbuk National University, ²Jeonbuk Science High School)**P1-pa.003****Study of the effect of jet charge for top quark mass at LHC accelerator** / RYU Geonmo, PARK Inkyu*, LEE Jason Sang Hun*, KIM Ji Hyun(Department of Physics University of Seoul)**P1-pa.004*****Measurement of the mass of top quark by using D meson in jet** / KO Byeonghak, KIM Ji Hyun, PARK In Kyu*, LEE Sang Hun Jason*(Department of Physics, University of Seoul)**P1-pa.005*****Study of ME0 muon system upgrade at the CMS experiment.** / HEO Gun-woo, PARK Inkyu*, LEE Sanghoon Jason*(Department of Physics University of Seoul)**P1-pa.006*****The study of higgs to dimuon search with the CMS detector** / KIM Byoungjun, PARK Inkyu*, LEE Jason*(Department of Physics University of Seoul)**P1-pa.007****Monte Carlo Study of Microscopic Black Holes at LHC Energies** / LEE Yonghoon^{*1}, LEE Hee Won^{*1}, YU Intae¹, PARK Seong Chan^{2, 3}, GHO Junghwan¹, HWANG Chanwook¹, HYUN Young-Hwan¹, KANG Dong Woo^{1, 2}, FROST James⁴(¹Department of Physics, Sungkyunkwan University, ²Department of Physics & IPAP, Yonsei University, ³Korea Institute for Advanced Study (KIAS), ⁴Department of Physics, The University of Oxford)**P1-pa.008*****Kicker field simulation and measurement for the muon g-2**

experiment at FNAL / KIM Young Im^{*1}, CHOI Jihoon^{*1}, SEMERTZIDIS Yannis^{*1}, CHANG Seung Pyo²(¹Center for Axion and Precision Physics, IBS, ²Korea Advanced Institute of Science and Technology)

P1-pa.009

Ladder Assembly Procedures for Silicon Vertex Detector of the Belle II / JEON Hyebin¹, KANG Kookhyun¹, PARK Hwanbae^{*1}, HIGUCHI Takeo², JOO Changwoo², MORII Tomoko², ONUKI Yoshiyuki³, KODALI Kameswara Rao⁵, YOSHIMOBU Toshiki⁴(¹Kyungpook National University, ²Kavli Institute for the Physics and Mathematics of the Universe, ³The University of Tokyo, ⁴Niigata University, ⁵Tata Institute of Fundamental Research)

P1-pa.010*

Energy Spectrum of 12B/12N Beta Decays from the RENO Experiment / YANG Nackyoung^{*}, 박성우, 박인곤, 장지승, 박명렬, 최준호, 장한일, 권은향, 김상용, 김수봉, 서선희, 서현관, 양정열, 이동하, 이용창, 이현기, 김종건, 김종현, 양장희, 유인태, 최영일, ROTT Carsten, 김현수, 김승찬, 김재률, 문동호, 박령균, 신창동, 여인성, 임인택, 주경광 (Department of Physics, Sungkyunkwan University)

P1-pa.011

Measurement of the attenuation length of liquid scintillator for the neutrino experiment / 신창동¹, 김승찬¹, 주경광^{*1}, 김재률¹, 문동호¹, 박령균¹, 여인성¹, 임인택¹, 김우영², 박성우², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 권은향⁶, 김상용⁶, 김수봉⁶, 서선희⁶, 서현관⁶, 양정열⁶, 이동하⁶, 이용창⁶, 이현기⁶, 김종건⁷, 김종현⁷, 양장희⁷, 유인태⁷, 최영일⁷, Carsten Rott⁷(¹전남대학교, ²경북대학교, ³광주과학기술원, ⁴동신대학교, ⁵서영대학교, ⁶서울대학교, ⁷성균관대학교)

P1-pa.012*

Effort on increasing attenuation length of liquid scintillator / 양정열^{*1}, 김우영⁶, 박성우⁶, 장지승², 박명렬³, 최준호³, 장한일⁷, 권은향¹, 김상용¹, 김수봉^{*1}, 서선희^{*1}, 서현관¹, 이용창^{*1}, 이현기^{*1}, 김종건⁴, 김종현⁴, 양장희⁴, 유인태⁴, 최영일⁴, Carsten Rott⁴, 김승찬⁵, 김재률⁵, 문동호⁵, 박령균⁵, 신창동⁵, 여인성⁵, 임인택⁵, 주경광⁵, 이동하¹(¹서울대학교 물리천문학부 물리학과, ²광주과학기술원, ³동신대학교, ⁴성균관대학교, ⁵전남대학교, ⁶경북대학교, ⁷서영대학교)

P1-pa.013

R&D study of liquid purification using distillation for the next generation neutrino experiment / 김승찬¹, 송예성¹, 강미혜¹, 김우영², 박성우², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 권은향⁶, 김수봉⁶, 김상용⁶, 서선희⁶, 서현관⁶, 양정열⁶, 이동하⁶, 이용창⁶, 이현기⁶, 김종건⁷, 김종현⁷, 양장희⁷, 유인태⁷, 최영일⁷, Carsten Rott⁷, 김재률¹, 문동호¹, 박령균¹, 신창동¹, 여인성¹, 임인택¹, 주경광^{*1}(¹전남대학교 물리학과, ²경북대학교, ³광주과학기술원, ⁴동신대학교, ⁵서영대학교, ⁶서울대학교, ⁷성균관대학교)

P1-pa.014*

Development of DAQ electronics for RENO-50 / 김상용*, 김수봉*, 서선희*, 서현관¹, 권은형¹, 양정열¹, 이동하¹, 이웅창¹, 이현기¹, 김우영², 박성우², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 김종건⁶, 김종현⁶, 양창희⁶, 유인태⁶, 최영일⁶, Carsten Rott⁶, 김승찬⁹, 김재률⁹, 문동호⁹, 박령균⁹, 신창동⁹, 여인성⁹, 임인택⁹, 주경광⁹(¹서울대학교 물리학과, ²경북대학교, ³광주과학기술원, ⁴동신대학교, ⁵서영대학교, ⁶성균관대학교, ⁷전남대학교)

P1-pa.015

Design of an anti-electron neutrino detector for a short baseline measurement / PARK Kang Soon*(Institute for Basic Science)

P1-pa.016

Statistical Analysis Method for the NEOS Experiment / KO Youngju^{*1}, HAN Boyoung², JANG Chang-Hwan¹, JEON Eunju³, JOO Kyung-Kwang⁴, KIM Baro⁴, KIM Hongjoo⁵, KIM Hyunsoo⁶, KIM Jinyu⁶, KIM Young-Duk^{3,6,7}, LEE Jaeson³, LEE Joo-Young⁵, LEE Moo-Hyun³, OH Yoomin³, PARK Hyang-Kyu^{3,7}, PARK Hyun-Seo⁸, PARK Kangsoon³, SEO Kyunmin⁶, SIYEON Kim¹, SUN Kwnag-Min²(¹Department of Physics, Chung Ang University, ²Neutron Science Division, Korea Atomic Energy Research Institute, ³Center for Underground Physics, Institute for Basic Science, ⁴Department of Physics, Chonnam National University, ⁵Department of Physics, Kyungpook National University, ⁶Physics Department, Sejong University, ⁷University of Science and Technology, ⁸Korea Research Institute of Standards and Science)

P1-pa.017

Overview of T2HK / YU Intae*(Department of Physics, Sungkyunkwan University)

P1-pa.018*

Sensitivity Studies Using the Hyper-K detector in Japan and the 2nd Detector in Korea / JEON Sanghoon*, KIM Jonghyeon(Department of Physics, Sungkyunkwan University)

P1-pa.019*

Sensitivity Studies Using only the 2nd Detector in Korea / 김상용*, 김수봉*, 서선희*(서울대학교 물리학과)

P1-pa.020*

Low Energy Physics Benefits Using the 2nd Hyper-Kamiokande Detector in Korea / KIM JongHyun*, ROTT Carsten*(Department of Physics SungKyunKwan University)

P1-pa.021*

Development of neutron monitoring detectors for the COSINE experiment / ADHIKARI Govinda* (Department of physics, Sejong University)

P1-pa.022*

Multiple-cavity detector for axion dark matter search / JEONG Junu^{1, 2}, AHN Saebyeok^{1, 2}, YOUN Sungwoo², SEMERTZIDIS Yannis K^{*1, 2}
(¹Department of Physics KAIST, ²Center for Axion and Precision Physics Research IBS)

P1-pa.023*

Improving the quality factor of microwave cavities for axion search experiments / AHN Saebyeok¹, YOUN Sungwoo^{*2} (¹Department of Physics, KAIST, ²Institute for Basic Science (IBS))

P1-pa.024

Enhanced Q factor of quasi-cylindrical microwave cavity for halo axion searching experiment / KWON Ohjoon^{*1}, KIM Jinsu², LEE Doyu², CHUNG Woohyun¹ (¹Institute for Basic Science, ²Korea Advanced Institute of Science and Technology)

P1-pa.025

중성 케이온 붕괴모드인 $K_L^0 \rightarrow \pi^0 \pi^0 \pi^0$ 의 2 gamma에 대한 융합 및 빔홀을 통과한 1 gamma에 대한 측정 / 고재우¹, 우종관^{*1}, LIU Dong^{1, 2}
(¹제주대학교 물리학과, ²국립암센터)

P1-pa.026

An update on HPGe detectors at Y2L / HAHN Insik Kevin^{*1}, KIM Yeongduk^{*2}, KIM Gwoon¹, LEONARD Douglas², SALA Elena², LEE MooHyun², PARK Suyeun¹, KANG Woongu² (¹Ewha Womans University, ²Institute for Basic Science (IBS))

P1-pa.027*

An overview of AMoRE pilot and phase 1 detector / KIM Inwook¹, KIM Yong Hamb^{*2} (¹Seoul National University, ²Institute for Basic Science)

P1-pa.028*

Performance Test of Muon Detectors for AMoRE Experiment / PRIHTIADI Hafizh* (Department of Physics, Bandung Institute of Technology)

P1-pa.029

Developing Trigger Algorithms for Continuous Measurements for AMoRE experiment / SEO Kyungmin¹, YOON Young Soo^{*2}, KIM Yeongduk^{1, 2}, KIM Hyunsoo¹, KIM Wootea³ (¹Department of Physics, Sejong University, ²Center

for underground Physics, Institute for Basic Science, ³Department of Physics,
Gyeongsang National University)

P1-pa,030*

**Heat pulse and filter studies for CaMoO₄ crystals and MMC
operations of AMoRE detector / 권도형, 오하영, 김건보, 김용함***
(기초과학연구원 지하실험연구단)

Hanging posters: 2016. 10. 19 Wednesday 13:00 – 10. 20 Thursday 12:00

Presentation : 2016. 10. 19 Wednesday 18:00 - 19:30

Place: Multipurpose Hall

P1-pl.001

Development of a 25 TW/30 fs Ti:sapphire laser system for laser-plasma acceleration / KIM Minseok, KIM Jinju, PHUNG Vanessa Ling Jen, LEE Seungwoo, SUK Hyyong* (Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

P1-pl.002

Design of high-efficiency klystron with multi-cell coupled cavity / 황지현¹, 박성주², 남궁원², 조무현³ (¹포항공과대학교 물리학과, ²포항가속기연구소, ³포항공과대학교 첨단원자력공학부)

P1-pl.003

Femtosecond laser machining of capillary plasma sources for laser wakefield acceleration / SUK Hyyong*, JEON Jiyeon (Department of Physics and Photon Science)

P1-pl.004

100 MeV 양성자가속기 MEBT 고주파 결합기 물리 설계 / 김한성*, 김성구, 이석근, 권혁중, 조용섭 (한국원자력연구원 양성자가속기연구센터)

P1-pl.005

Diagnostics of the PAL-XFEL / KIM Changbum*, LEE Sojeong, KIM Gyu-jin, OH Bong-i, YANG Haeryong, HONG Juho, CHOI Hyo-Jin, KANG Heung-Sik, KO In Soo (Pohang Accelerator Laboratory)

P1-pl.006*

Investigation of the effect of drift length at the plasma-vacuum interface to the electron-beam bunch evolution. / PHUNG VANESSA LING JEN, SUK HYYONG* (Department of Physics and Photon Science, Gwangju Institute of Science and Technology, South Korea)

P1-pl.007*

Design of the button-type beam position monitor for SCL3 in RAON / KWON Jangwon^{1, 2}, WOO Hyungjoo¹, KIM Gidong¹, CHUNG Yeonseil¹, KIM Chanmi¹, KIM Eunsan^{*2} (¹RISP / IBS, ²Department of accelerator science / Korea University)

P1-pl.008

Theoretical investigation of relativistic transmittance of circularly

polarized laser pulses in plasma systems / 강태연, 김영국, 허민섭*
(울산과학기술원)

P1-pl.009*

Design of phase probe to determine beam energy for 81.25MHz in RAON. / KIM Chanmi^{1,2}, KIM Gidong¹, WOO Hyungjoo¹, CHUNG Yeonseil¹, KWON Jangwon¹, KIM Eun-San²(¹IBS, ²Korea university)

P1-pl.010

Gun Solenoid, Spectrometer Magnet, and Thin Quadrupole Magnet Design for PAL-XFEL / SUH Hyung Suck*, LEE Sang-Bong, OH Bongi, JUNG Young-Gyu, JEONG Seong Hun, LEE Hong-Gi, PARK Ki-Hyeon, KANG Heung-Sik, KIM Dong Eon, KO In Soo(PAL/POSTECH)

P1-pl.011*

Upgrade of High Voltage Gas Discharge System for Generation of Capillary Plasma Waveguide in Laser-Plasma Acceleration / JANG Donggyu, PHUNG Vanessa Ling Jen, SUK Hyyong*(Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

P1-pl.012*

Investigation of the Laser-Plasma Acceleration with a Density-Tapered Gas Cell / KIM Jinju, KIM Minseok, NAM Inhyuk, LEE Seungwoo, SUK Hyyong*(Department of Physics and Photon Science, GIST)

P1-pl.013

**Determination of pumping speed with an orifice method and Molflow Simulation / KIM Jaehong*, SON Hyungjoo¹, LEE D.J.², LEE Y.M.³
(¹Institute for Basic Science (IBS), ²EVS, ³VMT)**

P1-pl.014

100MeV 양성자 가속기 고주파시스템 제어 특성에 관한 연구 / 권혁중*, 김한성, 정해성, 김성구, 안태성, 송영기, 조용섭(한국원자력연구원 양성자가속기연구센터)

P1-pl.015

RAON 가속기의 LLRF 시스템 개발 현황 / 장효재*, 한재은, 이도윤, 최오룡, 손기택, 정인일(기초과학연구원 중이온가속기건설구축사업단)

P1-pl.016

Experimental Studies of He⁺ and He⁺² ionization using an EBIS / LEE Seunghyun*, KIM Han-Sung, KWON Hyeok-Jung, CHO Yong-Sub(Korea Multipurpose Accelerator Complex, Korea Atomic Energy Research Institute, Gyeongju, Korea)

P1-pl.017

장치 Girder의 변화를 지속적으로 측정하고 기록하는 WPS / 최효진*, 이상봉, 이흥기, 서광원, 길계환, 김승환, 강흥식(포항가속기연구소)

P1-pl.018

Physics applications for the beam commissioning of the RAON heavy ion accelerator / JEON Dong-O*, JANG Ji-Ho, JIN Hyunchang (Institute for Basic Science)

P1-pl.019

Operating scenario for the SCL demo of Rare Isotope Science Project / JIN Hyunchang^{*1}, LEE Sang-Il¹, CHOI Yong-Jun¹, SON Chang-Wook¹, PARK Mijeong¹, NAM Seunghee^{1, 2}, JANG Ji-Ho¹, JEON Dong-O¹, JANG Hyun-Man¹(¹Rare Isotope Science Project, Institute for Basic Science, ²Department of Accelerator Science, Korea University)

P1-pl.020

Corrector Magnet Power Supply for PAL-XFEL / 박기현*, 정성훈, 정영규, 김동연, 서형석, 이흥기, 이상봉, 오봉기 (포항가속기연구소)

P1-pl.021

포항방사광가속기-II / 4B 빔라인의 광학현미경 조정장치 / 길계환*, 최효진, 임재홍(포항가속기연구소)

P1-pl.022

PAL-XFEL Dipole Magnet power supplies / JEONG Seong Hun*, PARK Ki-Hyeon, SUH Hyungsuck, LEE Sang-Bong, OH Bongi, JUNG Young-Gyu, LEE Hong-Gi, KIM Dong Eon, KANG Heung-Sik, KO In Soo(포항가속기연구소)

P1-pl.023*

Collisional Radiative Simulation for the initial phase of transformation of solid density Aluminum heated by X-ray Free Electron Laser Pulse / CHO Min Sang^{1, 2}, CHO Byoung-ick^{*1, 2}(¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, Gwangju, Korea, ²Center for Relativistic Laser Science, Institute of Basic Science, Gwangju, Korea)

P1-pl.024*

Characteristics of laser-forced betatron oscillation in laser wakefield acceleration / LEE Seungwoo, KIM Minseok, SUK Hyyong* (Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST))

P1-pl.025

Status of RRR for Niobium Superconducting Cavities / JUNG

Yoochul, KIM Wookang, KIM Heetae*(IBS)

P1-pl.026

이동형 중성자 발생장치용 티타늄 타겟의 개념설계 (Conceptual design of titanium target for movable neutron generator) / 이석관*, 허성렬, 장대식, 진정태, 이광원, 인상열, 오병훈(대전광역시 유성구 대덕대로 989번길 111 한국원자력연구원)

P1-pl.027*

XUV Absorption Spectroscopy Apparatus for Investigating Ultrafast Dynamics in Warm Dense Matters / LEE Jong-won^{1,2}, GENG Xiaotao^{2,3}, JUNG Jaehyung¹, JO Jawon^{2,3}, KIM Dong-eon^{2,3}, CHO Byoung-ick^{*1}(¹Department of Physics and Photon Science, GIST, ²Max Planck Center for Attosecond Science, Max Planck POSTECH/KOREA Res. Init, ³Department of Physics, POSTECH)

P1-pl.028*

Experiment design of frequency domain interferometry for femtosecond laser-produced warm dense matter / JUNG Jaehyung, KIM Min-ju, LEE Jong-won, JEE Yelim, CHO Byoung-ick*(Gwangju institute of science and technology)

P1-pl.029*

K-shell emission spectral simulation of titanium targets irradiated by intense laser pulses / BAE Leejin^{*1,2}, CHO Minsang^{1,2}, KIM Minju¹, KIM Young Hoon^{1,2}, LEE Jong-won¹, CHO Byoung-ick^{1,2}(¹Department of Physics and Photon science, Gwangju Institute of Science and Technology, ²Center for Relativistic Laser Science, Institute for Basic Science)

P1-pl.030*

Measurement of pre-pulses of high-power femtosecond Ti:sapphire laser system using third-order autocorrelator / JEE Yelim¹, KIM Minju¹, KIM Younghoon^{1,2}, KANG Gyengbo^{1,2}, CHO Byoung-ick^{*1,2}(¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Institute for Basic Science)

P1-pl.031

Basic research on wave-breaking phenomenon of magnetized plasma. 자화된 플라즈마의 wave-breaking 현상에 대한 기초연구 / 라옥주, 강태연, 허민섭*(울산과학기술원 자연과학부 물리학과)

P1-pl.032*

Stabilizing effect of periodic dipole magnets on the diocotron instability of a hollow electron beam / JO Young Hyun¹, CHUNG Moses^{*2}, LEE Hae June^{*1}(¹Department of Electrical Engineering, Pusan National University, ²Department of Physics, Ulsan National Institute of Science and Technology)

P1-pl.033

여러가지 조건에서 Al이 도핑된 산화아연의 박막성장 / 이봉주*(조선대학교 물리학과)

P1-pl.034*

Observation of pulse shortening based on plasma discharge phenomenon in W-band Gyrotron / KIM Dongsung^{*1}, YU Dongho¹, SAWANT Ashwini², CHOI Eunmi^{*1}(¹Department of Physics, UNIST, ²Department of Electrical Engineering, UNIST)

Hanging posters: 2016. 10. 19 Wednesday 13:00 – 10. 20 Thursday 12:00

Presentation : 2016. 10. 19 Wednesday 18:00 - 19:30

Place: Multipurpose Hall

P1-se.001

First-principles calculations of V-doped SiC / Yura Kang^{1,2}, Jinwoo Park¹, Seongmin Jeong², Suklyun Hong^{*1}(¹Department of Physics and Graphene Research Institute, Sejong University, Seoul 143-747, Korea, ²Energy & Environmental Division, Korea Institute of Ceramic Engineering and Technology, Jinju, Korea)

P1-se.002*

Crystal Growth and Characterization of CdMnTe for Radiation detector / 신현도, 엄영호*(울산대학교 물리학과)

P1-se.003*

산성 분위기에서의 Chemical Bath Deposition법에 의한 완충층 ZnS 박막 성장 / 이동찬, 안희진, 박수정, 엄영호*(울산대학교 물리학과)

P1-se.004

초음파 SILAR 합성법을 이용한 초음파 에너지 변화에 따른 CdS 양자점 합성 및 연구 / 서새롬, 김재호, 손상호*(경북대학교 물리교육과)

P1-se.005

TiO₂ 광전극 제작 및 초음파 SILAR를 이용한 Mole 수에 따른 CdS 양자점 연구 / 장태훈, 김재호, 손상호*(경북대학교 물리학과)

P1-se.006

Sputtering 방법으로 증착한 ZnO:Al 박막의 물성 분석 / 오병성^{*1}, 우시관², 김재석¹(¹충남대학교 물리학과, ²(주)브이티에스)

P1-se.007*

ZnO/ZnTe biaxial 나노선의 결정 성장과 광학적 특성 연구 / 최선빈, 송만석, 김용*(동아대학교 물리학과)

P1-se.008*

FTO 유리 기판 위에 성장된 계층구조 ZnTe 나노선의 결정성장 및 광학적 특성 / 송만석, 최선빈, 김용*(동아대학교 물리학과)

P1-se.009

ZnO:Al/p-Si heterojunction photovoltaic device with TiO₂ barrier layer / KANG Jihoon, LEE Kyoungsu, KIM Eunkyung*(Department of Physics,

P1-se.010*

Si 기판 위에 성장한 CdTe/ZnTe 이중 양자점의 결합에 따른 광학적 특성
/ 임기홍¹, 진성환¹, 이창렬², 임상엽², 최진철¹, 이홍석^{*3}(¹연세대학교 물리학과,
²광주과학기술원 고등광기술연구소, ³전북대학교 물리학과)

P1-se.011*

**단일층 WSe₂에서 valley polarized exciton에 의한 굴절률과 흡수율
변화 측정** / 박정재, 정태영, 이기주*(충남대학교 물리학과)

P1-se.012*

**Facile Method for Synthesis of Various Transition Metal
Dichalcogenide Thin Films by Chemical Vapor Deposition** / PARK
JinCheol^{1, 2}, LEE YoungHee^{*1, 2}(¹Department of Energy Science, Sungkyunkwan
University, ²Center for Integrated Nanophysics, Institute fo Basic Science (IBS),
Sungkyunkwan University)

P1-se.013*

**Large area vapor phase growth and characterization of
molybdenum disulfide atomic layer** / 김민우¹, 김자연², 박현선¹,
조유현¹, 방승호³, 정문석³, 권민기^{*1}(¹조선대학교 광기술공학과, ²한국광기술원,
³성균관대학교 IBS 나노구조물리연구단)

P1-se.014*

**Investigation of thermoelectric properties of ntype SnSe₂ single
crystals** / PHAM Anh Tuan, VU Hoa Thi, DUONG Thiet Van, NGUYEN Quang
Van, DUONG Anh Tuan, CHO Sunglae*(Department of Physics University of
Ulsan)

P1-se.015*

**Generation of exciton-polariton condensates in resonant
pumping regime toward exploring quantum fluid** / KWON Min-
Sik¹, OH Byoung Yong¹, GONG Su-Hyun¹, KIM Je-Hyung¹, KANG Hang
Kyu², KANG Sooseok², SONG Jin Dong², CHOI Hyungsoon^{*1}, CHO Yong-
Hoon^{*1}(¹Department of Physics and KI for the NanoCentury, KAIST, Daejeon,
Republic of Korea, ²Center for Opto-Electronic Convergence Systems, KIST, Seoul,
Republic of Korea)

P1-se.016

**On the Effect of Vacuum Annealing on the Electrical Properties
of Monolayer MoS₂** / LIM Daeyoung*, KIM DongHak, KIM Taehyung
(Department of Applied Physics, KyungHee University)

P1-se.017*

Nanostructured NiMoO₄ thin films for electrochemical supercapacitor applications / CHAVAN Harish S., A. Abu Talha A., CHO Sangeun, KIM Jongmin, JO Yongcheol, LEE Seongwoo, PAWAR S. M., INAMDAR A. I., KIM Hyungsang*, IM Hyunsik(Division of Physics and Semiconductor Science, Dongguk University)

P1-se.018*

온도 변화에 따른 단일층 WSe₂의 엑시톤 신호 변화 / 이성연¹, 정태영¹, 김지희², 윤석준², 이영희², 이기주¹(¹충남대학교 물리학과, ²BS 나노구조물리연구단, 수원 에너지과학과, 성균관대학교)

P1-se.019

나노복합체를 사용하여 제작한 memristor 소자의 동작 매커니즘 연구 / 변지섭*, 김태환(한양대학교 융합전자공학부)

P1-se.020

FinFET의 gate side angle 변화에 따른 전기적 특성 변화 / 이성훈¹, 안준성², 김태환^{1,2}(¹한양대학교 융합전자공학부, ²한양대학교 전자컴퓨터통신공학부)

P1-se.021

플래시 메모리의 금속층 삽입에 따른 셀간 간섭 현상 / 이연규¹, 안준성², 김태환^{1,2}(¹한양대학교 융합전자공학부, ²한양대학교 전자컴퓨터통신공학과)

P1-se.022*

Comparative studies on the physical and electronic properties of ZnO and ZnON semiconductors by reactive RF magnetron sputtering / SONG Aeran, CHUNG Kwun-Bum*, KWON Sera, PARK Hyun-Woo (Division of Physics and Semiconductor Science Dongguk University)

P1-se.023*

Effect of structural distortion on phase-change properties in Sb doped Ge-Sb-Te / JUNG Hoon, AHN Min, HAN Jeong Hwa, YANG Wonjun, KIM Dasol, CHO Mann-Ho*(Department of Physics Yonsei University)

P1-se.024

Growth and thermoelectric transport properties of InSe single crystal / NGUYEN Thi Huong, TRAN Thi Toan, NGUYEN Van Quang, DUONG Van Thiet, DUONG Anh Tuan, CHO Sunglae*(Department of Physics and Energy Harvest Storage Research Center, University of Ulsan, Ulsan 44610)

P1-se.025

산화그래핀과 유기폴리머 나노복합체 기반 비휘발성 메모리의 전하 수송 메커니즘 규명 / 이재연¹, 김우겸², 김태환^{1,2}(¹한양대학교 융합전자공학과,

²한양대학교 전자컴퓨터통신공학과)

P1-se.026

Scavenging of galvinoxyl spin 1/2 radicals in annealed galvinoxyl-doped P3HT films / CHO J. M.¹, LEE J.-K.^{*2}(¹Research Institute, TOPnC., Ltd., ²Department of Physics, Chonbuk National University)

P1-se.027

Doublet of quintets from spin 1/2 radicals in galvinoxyl liquid samples / CHO J. M.¹, LEE J.-K.^{*2}(¹Research Institute, TOPnC., Ltd., ²Department of Physics, Chonbuk National University)

P1-se.028

신규 고분자를 이용한 유기 태양전지의 광전류 향상 연구 / 이지훈, 신인수, 이달용, 오근녕, 김단비, 정중현, 박성흠*(부경대학교 물리학과)

P1-se.029

용매첨가제를 이용한 고분자 태양전지에 광학 스페이서 도입을 통한 광전류 향상연구 / 이달용, 김승민, Liu Yanliang, Ma Yongchao, Pesi Mwitumwa Hangoma, 정중현, 박성흠*(부경대학교 물리학과)

Hanging posters: 2016. 10. 20 Thursday 13:00 – 10. 21 Friday 12:00

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Place: Multipurpose Hall

P2-ap.101

Fabrication and study of Fe-N nanopowder prepared by DC thermal plasma / SHINDE Kiran Prakash¹, RANOT Mahipal¹, KIM Hosup², KIM Jong-Woo¹, CHOI Chul-Jin¹, CHUNG Kookchae^{*1}(¹Korea Institute of Materials Science, ²Korea Electrotechnology Research Institute)

P2-ap.102

신자성재료 개발을 위한 High-throughput 자성재료 제조 및 특성 평가 / 김호섭¹, 하동우¹, 정국채², 최철진²(¹한국전기연구원 초전도연구센터, ²재료연구소 분말세라믹연구본부)

P2-ap.103*

Vanadium을 미량 치환한 LiFePO₄의 결정학적 및 자기적 특성 연구 / 고병욱¹, 손진영¹, 고태준¹, 서정철², 김철성^{*1}(¹국민대학교 물리학과, ²원광대학교 반도체디스플레이학부)

P2-ap.104*

Dielectric and structural properties of Hf_{1-x}Zr_xO₂ thin film grown by pulsed laser deposition for ferroelectric oxide / LEE KyoungJun, LEE TaeYoon, SHIN JaeSung, CHAE SeungChul^{*}(Department of Physics Education, Seoul National University, Seoul 08826, South Korea)

P2-ap.105*

이중 헬름홀츠 공명기를 사용한 연속적 유효 압축률 구현 / 한충규, 이준기, 김태우, 최해진, 박종진, 복은, 이삼현^{*}(연세대학교 물리및응용물리과)

P2-ap.106

A strategy for developing phosphors with tunable white light-emitting properties: ZnWO₄:Sm³⁺, Bi³⁺, Li⁺ / RAN Weiguang¹, JEONG Jung Hyun^{*1}, SHI Jinsheng², KIM Jung Hwan³(¹Department of Physics, Pukyong National University, ²Department of Chemistry and Pharmaceutical Science, Qingdao Agricultural, ³Department of Physics, Dong-eui University)

P2-ap.107

Synthesis and Luminescence Properties of K₂Ge₄O₉: Mn⁴⁺ Phosphors via solid-state reaction route / XUE Junpeng¹, MOON Byung Kee¹, CHOI Byung Chun¹, JEONG Jung Hyun^{*1}, KIM Jung Hwan²(¹Department of Physics, Pukyong National University, ²Department of Physics, Dong-eui University)

P2-ap.108

Luminescence properties of Dy³⁺ ions activated novel white-light emitting K₂Gd(PO₄)(WO₄) phosphors / GUO Yue¹, MOON Byung Kee¹, CHOI Byung Chun¹, JEONG Jung Hyun^{*1}, KIM Jung Hwan²(¹Department of Physics, Pukyong National University, ²Department of Physics, Dong-eui University)

P2-ap.109

유로퓸으로 도핑된 산화알루미늄의 열형광 및 포토루미네선스 특성 연구 / 박상민, 김영유, 류지욱, 홍사용*(공주대학교 물리학과)

P2-ap.110*

전기도금과 갈바니치환 방법으로 제작한 BiTe 박막의 특성 / 김지현, 진영환, 이정섭, 홍기민*(충남대학교 물리학과)

P2-ap.111

Growth of VO₂ single crystalline nano- and microwires in atmosphere on various substrates / CHO Jin-cheol^{1, 2}, SLUSAR Tetiana V.¹, KIM Hyun-Tak^{*1, 2}(¹Electronics and Telecommunications Research Institute, ²University of Science and Technology)

P2-ap.112

Synthesis of high crystalline and large area h-BN through electrochemical polishing(ECP) treatment / 여동규^{1, 2}, 서태훈², 이건희¹, 민경현^{1, 2}, 김희수^{1, 2}, 서은경¹, 김명종²(¹전북대학교 반도체 화학 공학부, ²한국과학기술연구원)

P2-ap.113

Temperature-Dependent Optical Properties of Organo-Metal Halide Perovskite Single Crystals / PARK Sangheon¹, SEO Yu-Seong¹, AHN Chang Won², WOO Won Seok², KIM Ill Won², HWANG Jungseek^{*1}(¹Department of Physics Sungkyunkwan University, ²Department of Physics & EHSRC University of Ulsan)

P2-ap.114

Field-Induced Strain and Ferroelectric Properties of Bi(Mg_{0.5} Zr_{0.5}) O₃-Modified BiFeO₃-BaTiO₃ Ceramics / HUSSAIN Ali^{*1}, MAQBOOL Adnan¹, MALIK Rizwan Ahmed¹, LEE Jae Hong¹, SONG Tae Kwon¹, KIM Won-Jeong², KIM Myong-Ho¹(¹School of Advanced Materials Engineering, Changwon National University, ²Department of Physics, Changwon National University)

P2-ap.115*

Direct Growth of High-Quality Large-Area Graphene/h-BN Heterostructure on Recyclable Pt Foil by Chemical Vapor Deposition / QIAN Yongteng, NGOC Huynh Van, KANG Dae Joon*(Department of physics)

P2-ap.116

Sr₂CeO₄:Er³⁺/Tm³⁺/Yb³⁺: a potential color tunable phosphor for white LEDs / SEO Yeon Woo^{1,2}, NOH Hyeon Mi¹, PARK Sung Heum¹, JEONG Jung Hyun Jeong^{*1}, KIM Kwang Ho^{*2}(¹Department of Physics, Pukyong National University, ²Hybrid Interface Materials Global Frontier Research Group, Pusan National University)

P2-ap.117

Influence of sintering temperature on white upconversion emission in Er³⁺/Yb³⁺/Tm³⁺ tri-doped Y2O3 nanophosphors / NOH Hyeon Mi¹, OH Ju Hyun¹, JEONG Jung Hyun^{*1}, CHOI Haeyoung², KIM Jung Hwan², SEO Yeon Woo³(¹Department of Physics, Pukyong National University, ²Department of Physics, Dong-eui University, ³Hybrid Interface Materials Global Frontier Research Group, Pusan National University)

P2-ap.118

EPR and Optical Absorption Studies around Cu²⁺ ions in BaO-B2O3-CuO Glasses / KIM Young Hoon, NOH Tae Ho, CHOI Deok, SONG Seung Kee^{*}(Department of Physics Myong Ji University)

P2-ap.119

Fabrication of K⁺ ion source / CHOI Dae Sun^{*}(Department of Physics Kangwon National University)

P2-ap.120*

Photocatalyst properties of ZnSn(OH)₆ and ZnSnO₃ nanoparticles obtained by facile reflux method / KIM Taikyu¹, KIM Daehyub¹, KIM Taek Gon², PARK Jinsub^{*1, 2}(¹Department of Electronic Engineering, Hanyang University, ²Department of Electronics and Computer Engineering, Hanyang University)

P2-ap.121

Pulsed Wire Evaporation법을 이용한 core-shell Fe 나노 분말의 결정 구조 및 자기적 특성 / 김덕현, 이석희, 김현성, 이보화^{*}(경기도 용인시 처인구 모현면 외대로 81 한국외국어 대학교 물리학과)

P2-ap.122

NIR-to-Visible upconversion in Er³⁺ and Yb³⁺ codoped SrLaMgTaO₆ / KIM Dorim¹, PARK Sung Wook¹, JEONG Jung Hyun^{*1}, KIM Jung Hwan²(¹Department of Physics, Pukyong National University, ²Department of Physics Dong-eui University)

P2-ap.123

SHP Investigation of Cu^{2+} ions in $\text{Li}_2\text{O-B}_2\text{O}_3\text{-CuO}$ Glasses / NOH Tae Ho, KIM Young Hoon, CHOI Deok, SONG Seung Kee* (Department of Physics Myongji University)

P2-ap.124*

Control of oxygen octahedral tilt in $\text{BiFeO}_3/\text{SrRuO}_3$ heterostructures / LEE Sung Su¹, KIM Young-Min², LEE Hyun-Jae³, SEO Ok Kyun¹, JEONG Hu Young⁴, HE Qian⁵, BORISEVICH Albina Y⁵, 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)

P2-ap.125

RF 스퍼터링을 이용한 RuO_2 박막의 제작과 증착온도에 따른 특성 분석 / 정웅현* (경북대학교 물리학과)

P2-ap.126*

Ultrafast transient-photocarrier-induced saturable absorption behavior of topological insulator $\text{Bi}_{1.5}\text{Sb}_{0.5}\text{Te}_{1.7}\text{Se}_{1.3}$ / 최영관, 정찬준, 이종석* (광주과학기술원 물리광학과)

P2-ap.127*

DC 스퍼터링을 이용해 증착한 버퍼 전극층에 따른 PTC 써미스터의 전기적 특성 / 이수민¹, 선호정², 이용제^{*1} (¹군산대학교 물리학과, ²군산대학교 신소재공학과)

P2-ap.128*

Electronic structure study of WO_3 using various soft X-ray spectroscopy / LIM Chang Jin, IM Yeong Ji, JI Donghyun, KIM Jonghoon, RYU Bokyung, RYU Simhee, AHN Sunwoo, CHO Soohaeng*, CHO Sang Wan* (Department of Physics Yonsei University)

P2-ap.129

Physical properties of half-metallic CrO_2 thin films by chemical vapor deposition / PARK Jeongwoo*, LEE SeungKoog (Department of

P2-ap.130*

Structural and optical properties of nanostructured V_2O_5 films grown by electrodeposition method / LE Top Khac, KANG Manil, KIM Sok Won* (Department of Physics, University of Ulsan)

P2-ap.131*

An in situ study of thermal oxidation process of vanadium thin films with ambient pressure X-ray photoelectron spectroscopy / LIM Hojoon¹, KOH Yoobin¹, YU Youngseok¹, JEONG Beomgyun², KIM Geonhwa¹, KIM Howon³, CRUMLIN Ethan⁴, JU Honglyoul³, MUN Bongjin Simon^{*1, 5} (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, Korea, ²Division of Material Science Research, Korea Basic Science Institute, Daejeon, Korea, ³Department of Physics, Yonsei University, Seoul, Korea, ⁴Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, United States of America, ⁵Ertl Center for Electrochemistry and Catalysis, Gwangju Institute of Science and Technology, Korea)

P2-ap.132*

단결정 구리 박막의 열처리를 통한 CuO , Cu_2O 제작 및 광촉매 응용 / 박인희, 정세영* (부산대학교 인지메카트로닉스공학과)

P2-ap.133*

물 위를 구르는 물방울에 관한 연구 / 김나경, 정성현, 김진호, 김소희, 김영유, 이기원* (공주대학교 물리학과)

P2-ap.134

Terahertz Detection of Coherent Spin Precession in $YMn_xFe_{1-x}O_3$ / LEE Howon, HA Taewoo, KIM Jong Hyeon, JO Young Chan, SIM Kyung Ik, OH S. H., CHOI Y. J.*, KIM Jae Hoon* (Department of Physics Yonsei University)

P2-ap.135*

Direct measurement of the Dzyaloshinskii-Moriya interaction in orthorhombic $YFeO_3$ using terahertz time domain spectroscopy / KIM T. H.^{1, 2}, LEE J.-H.^{1, 2}, GRUENBERG P.², HAN S. H.³, LEE J. S.⁴, KANG C.⁵, KEE C.-S.⁵, TOKUNAGA Y.^{6, 7}, TOKURA Y.^{7, 8}, CHO B. K.^{*1, 2} (¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), ²Gruenberg Center for Magnetic Nanomaterials, Gwangju Institute of Science and Technology (GIST), ³Division of Navigation Science, Mokpo National University, Mokpo 58628, ⁴Department of Physics and Photon Science, School of Physics and Chemistry, GIST, ⁵Advanced Photonics Research Institute (APRI), Gwangju Institute of Science and Technology (GIST), ⁶Department of Advanced Materials Science, University of Tokyo, Kashiwa 277-8561, Japan, ⁷RIKEN Center for Emergent Matter Science (CEMS), Wako 351-0198, Japan, ⁸Department of Applied Physics, University of Tokyo, Tokyo 113-8656, Japan)

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P2-ap.201*

Tuning Optical Band-gap by Electrochemical Reduction in TiO₂ Nanorods for Improving Photocatalytic Activities / YUN Jong-Won, RYU Ki Yeon, NGUYEN Tri Khoa, KIM Yong Soo*(Department of Physics and Energy Harvest-Storage Research Center, University of Ulsan)

P2-ap.202*

Femtosecond laser-induced confined ablation on SiO₂/Si interface with embedded Au-Ag nanoparticles / NGUYEN Vinh, REHAMAN Zia Ur, JANULEWICZ Karol Adam*, SUK Hyyong*(Department of Physics and Photon Science Gwangju Institute of Science and Technology)

P2-ap.203

Synthesis and photoluminescence properties of yellow-emitting Ca₅(Zn_{1-x}Mg_x)₄(VO₄)₆ self-activated phosphors / PARK Jin Young¹, LEE Joo Hyun¹, MOON Byung Kee², JEONG Jung Hyun², YANG Hyun Kyoung*¹ (¹Department of LED Convergence Engineering Pukyong National University, ²Department of Physics Pukyong National University)

P2-ap.204

Demonstration of intraband optical signal-to-noise ratio monitor with freedom from the simultaneous impacts of polarization mode dispersion and polarization extinction ratio of polarization beam splitter / HAN Ki Ho*(Department of Optical Engineering, Kongju National University)

P2-ap.205

Investigation of Influence of optical fiber amplifier noise on principal-states-of-polarization tracing in optical fiber link and its mitigation / HAN Ki Ho*(Department of Optical Engineering, Kongju National University)

P2-ap.206*

Analysis of optical properties of Al wire grid polarizers using oblique angle deposition. / KIM Wonyoung, LEE Minbeak, KIM Tae Young, HWANG Sungmin, KIM Seoyoung, HWANGBO Chang Kwon* (Department of Physics Inha University)

P2-ap.207

IEC 60627 3rd Edition에 기반한 산란 X선 제거용 그리드의 성능 예측 연구 / 정우현*, 이상현(제이피아이헬스케어(주) 연구소)

P2-ap.208

Wide-Range Complex Conductivity of Free-Standing DNA Slab Obtained via Kramers-Kronig Analysis / JUNG Taek Sun, HA Taewoo, SIM Kyung Ik, LEE Howon, OH Kyunghwan, KIM Jae Hoon* (Department of Physics, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, Republic of Korea)

P2-ap.209*

Study of microbial battery on carbon nanomaterials for high efficient organic semiconductor devices / 안성진, 임은주* (Department of Creative Convergence Manufacturing Engineering Dankook University)

P2-ap.210*

멜라닌 나노 입자로 구현한 구조 색 / 민예림¹, 김성환^{*1, 2} (¹아주대학교 에너지시스템학과, ²아주대학교 물리학과)

P2-ap.211*

유연성을 지닌 실크 단백질 기반 3차원 광자결정 / 김숙영¹, 민경택¹, 김성환^{*1, 2} (¹아주대학교 에너지시스템학과, ²아주대학교 물리학과)

P2-ap.212

임피던스 분석을 통한 유기 발광 소자의 전기적 광학적 특성 연구 / 조호근¹, 서지동^{*1}, 김혜림^{*1}, 송민중^{*2} (¹홍익대학교 정보디스플레이공학과, ²광주보건대학교 방사선과)

P2-ap.213*

F-SAM 물질의 알킬 체인 길이 변화에 따른 유기 발광 소자의 전기적 광학적 효율 향상에 관한 연구 / 김혜림¹, 조호근¹, 이원재², 박상건³, 김태완^{*1} (¹홍익대학교 정보디스플레이공학과, ²가천대학교 전자공학과, ³신라대학교 전기전자공학과)

P2-ap.214*

Full Color Chemiluminescence Performance using Functional Organic Materials / 이호진, 김석호, 박동혁* (인하대학교 유기응용재료공학과)

P2-ap.215*

Optical Property of Water based Salmon Double Strand and single strand DNA thin film / JEONG Hayoung, BJORN Paulson, OH Kyunghwan* (Department of Physics Yonsei University)

P2-ap.216*

Interfacial electronic structure study of CuPc/C₆₀/potassium-doped MoO₃ using x-ray and ultraviolet photoemission spectroscopy. /
RYU Bokyung, JI Donghyun, AHN Sunwoo, RYU Simhee, KIM Jonghoon, IM Yeong Ji, CHO Sang Wan*(Department of Physics Yonsei University)

P2-ap.217*

Simple model based kinetic study of G quadruplex formation using fluorescence correlation spectroscopy / JUNG SeokHyun¹, KIM Soo Yong¹, KIM Sok Won^{*2}(¹Department of Physics, Korea Advanced Institute of Science and Technology, ²Department of Physics, University of Ulsan)

P2-ap.218*

형광 비드를 이용한 형광의 편광 상태에 따른 형광상관함수의 분석 /
이재란, 김현기, 김석원*(울산대학교 물리학과)

P2-ap.219*

Analysis of interaction of G-quadruplex using Fluoresceon Correlation Spectroscopy / 이동근¹, 김석원^{*2}, 김수용^{*1}(¹한국과학기술원 물리학과, ²울산대학교 물리학과)

P2-ap.220

Variation of clearance limits in Gamma Knife treatment planning / LIM Sahoe*, KIM Inyoung, MOON Kyungsub, JUNG Taeyoung, JANG Wooyoul, JUNG Shin(Department of Neurosurgery, Chonnam National University Hospital)

P2-ap.221

Resonance Modal Analysis for Cylindrical Shells with an Obliquely Incident Ultrasonic Wave / LIM Sahoe*(Department of Neurosurgery, Chonnam National University Hospital)

P2-ap.222*

Selective detection of Escherichia coli and Salmonella through immobilizing aptamers on capacitance sensor. / LEE Kyo-Seok¹, HAN Nalae¹, KIM Bongjun¹, LEE Sun-Mi², YOO Kyung-Hwa^{*1, 2}(¹Department of Physics, Yonsei University, Republic of Korea, ²Nanomaterial Graduate Program, Yonsei University, Republic of Korea)

P2-ap.223*

Vertical capacitance sensor for monitoring bacterial growth and detecting antibiotic susceptibility / JO Namgyeong¹, LEE Sun-Mi², HAN Nalae¹, OH Jeseung³, KIM Bongjun¹, LEE Kyo-Seok¹, YOO Kyung-Hwa^{*1, 2}(¹Department of Physics, Yonsei University, Republic of Korea, ²Nanomaterial Graduate Program, Yonsei University, ³Proteomtech, Inc.)

P2-ap.224*

Analysis of neuronal signals of neurons cultured on multi-wall carbon nanotube multi-electrode array / HAN Nalae, BAE Yong Hee, SEONG Jun Ho, YOO Kyung-Hwa* (Department of Physics, Yonsei University, Seoul, Korea, Republic of Korea)

P2-ap.225*

레이저 스펙클 이미지 상관 관계를 활용한 음식 속 미생물 측정 방법 / 윤종희^{1, 2}, 이겨레¹, 한승윤¹, 박용근^{*1, 3} (¹한국과학기술원 물리학과, ²Department of Physics, University of Cambridge, ³TOMOCUBE, Inc.)

P2-ap.226

Single Molecule Study on the *Saccharomyces cerevisiae* Modifier of Transcription 1 / JUNG Yongje, HOHNG Sungchul*, LEE Seung-Jae (Department of Physics and Astronomy, Seoul National University)

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P2-as,001*

국제우주정거장에서의 고에너지 우주선 관측을 위한 실리콘 전하 검출기의 pedestal 값과 온도의 상관 관계 / 최광호, 이해영, 전진아, 홍기한, 이직, 박일흥*(성균관대학교 물리학과)

P2-as,002*

Novel Camera System to Study Antarctic Ice Properties for Extensions to IceCube / KANG Woosik, BOSE Debanjan*, JEONG Minjin, KIM Jonghyun, KIM Myoungchul, ROTT Carsten*(Department of Physics Sungkyunkwan University)

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P2-co.101*

Asymmetry magnetic hysteresis arising from Dzyaloshinskii-Moriya interaction in lateral symmetry broken structure / HAN Dong-Soo¹, KIM Nam-Hui^{2, 3, 4}, KIM June-Seo^{1, 2}, YIN Yuxiang¹, KOO Jung-Woo¹, CHO Jaehun⁴, LEE Sukmock⁴, Kläui Mathias³, SWAGTEN Henk J. M.¹, KOOPMANS Bert¹, YOU Chun-Yeol^{*2}(¹Department of Applied Physics, Center for NanoMaterials, Eindhoven University of Technology, ²Department of Emerging Materials Science, DGIST, ³Institute of Physics, Johannes Gutenberg-Universität Mainz, ⁴Department of Physics, Inha University)

P2-co.102*

Sr₃Co₂Fe₂₄O₄₁의 결정학적 및 자기적 특성 연구 / 임정태, 명보라, 심인보, 김철성*(국민대학교 물리학과)

P2-co.103*

Zn가 치환된 LiFePO₄ 양극물질의 결정구조 및 자기특성변화연구 / 최현경¹, 김문환¹, 김삼진¹, 김성백², 윤성현³, 김철성^{*1}(¹국민대학교 물리학과, ²건양대학교 기초교육학부, ³군산대학교 물리학과)

P2-co.104*

Non-equilibrium dynamic reversal of nanoscale magnetized elements / HWANG Hee-Kyeong¹, KIM June-Seo², YOU Chun-Yeol^{*1}(¹Department of Emerging Materials Science, Daegu Gyeongbuk Institute of Science and Technology, Daegu, ²DGIST-LBNL Research Center for Emerging Materials, Daegu Gyeongbuk Institute of Science and Technology)

P2-co.105

Non-collinear magnetic ground state of GaMo₄Se₈ and GaTa₄Se₈ / JEONG Min Yong¹, HAN Myung Joon^{*1, 2}(¹Department of Physics, KAIST, ²KAIST institute for NanoCentury)

P2-co.106

망간이온의 결핍에 따른 LaMn_{0.92}O_{3+δ}의 스핀글라스, 초상자성, 방해온도 분포에 대한 연구 / 이길진¹, 김병준¹, 성승호¹, 강정수¹, 장지훈², 이수현³, 최광용³, 서병진^{*1}(¹가톨릭대학교 물리학과, ²국민대학교 나노전자물리학과, ³중앙대학교 물리학과)

P2-co.107

Epitaxy film growth and magnetic tunnel junctions based on magnetism at LaAlO₃/SrTiO₃ heterointerface. / KIM Jinkyung¹, SONG Jonghyun^{*1}, KIM Jinhee², NGO Thach D.N.²(¹Department of Physics Chung-nam National University, ²Korea Research Institute of Standards and Science)

P2-co.108

Cation redistribution of piezoelectric ferromagnetic Ga_{0.6}Fe_{1.4}O₃ (010) films by Co-doping / 김동환^{1, 2}, 오설희³, 조월령³, 김재영^{*1, 2, 4}
(¹Department of Physics, Pohang University of Science and Technology, ²Max Planck POSTECH Center for Complex Phase Materials, Pohang University of Science and Technology, ³Department of Physics, Ewha Womans University, ⁴Pohang Accelerator Laboratory, Pohang University of Science and Technology)

P2-co.109*

제일원리 계산에 의한 CrPt₃ 합금의 덩치와 (001) 박막의 자성 / 정태성, 제갈소영, 임성현, 홍순철*(울산대학교 물리학과, 울산광역시 남구 대학로 93, 680-749)

P2-co.110

CoFe₂O₄@AlFe₂O₄ 코어/셸 나노 페라이트의 결정학적 및 자기적 특성 연구 / 최현경, 안미정, 엄원영, 임새울, 심인보, 김철성, 김삼진*(국민대학교 물리학과)

P2-co.111

Magnetic interactions of A-site deficient spinel Ir₂O₂ emerging from trigonal distortion / KANG Seungjin, PARK Changhui, YU Jaejun*
(Department of Physics and Astronomy, Seoul National University, Korea)

P2-co.112*

제일 원리 계산을 이용한 CoPt₃(111) 합금의 자성과 촉매반응성 / 이상희, 권오룡, 홍순철*(울산대학교 물리학과)

P2-co.113*

Scattering model for large damping-like torque in TI/FM bilayer / SHIN Seungju*, LEE Hyun-Woo*(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea)

P2-co.114

Hydrogen-vacancy complex related ferromagnetism in single-walled carbon nanotubes / KIM Do Wan, LEE Kyu Won, LEE Cheol Eui*
(Department of Physics Korea University)

P2-co.115

Large-size crystal growth of inorganic-organic hybrid material of $(\text{CH}_3)_2\text{NH}_2\text{CuCl}_3$ for neutron scattering / PARK Garam^{1, 2}, OH In-Hwan^{*1}, PARK Seong-Hun³, LEE Kwang-Sei⁴, PARK Sungil J. M.⁵(¹Neutron Science Division, KAERI, 989-111 Daedeok-daero, Yuseong-gu, Daejeon, 305-353, Korea, ²Department of Chemistry, Korea University, Seoul 136-713, ³Department of Chemistry, Gyeonggi Science High School, Suwon, Gyeonggi, 440-800, ⁴Department of Nano Systems Engineering, Center for Nano Manufacturing, Inje University, Gimhae 621-, ⁵Neutron Instrumentation Division, KAERI, 989-111 Daedeok-daero, Yuseong-gu, Daejeon, 305-353, Korea)

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P2-co.201*

Ultrafast THz spectroscopy on a $\text{Ba}_{0.6}\text{K}_{0.4}\text{BiO}_3$ superconducting thin film / KWAK Inho^{*1, 2}(¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 08826, Republic of, ²Department of Physics and Astronomy, Seoul National University (SNU), Seoul 08826, Republic of Korea)

P2-co.202

Ferromagnetic quantum criticality in $\text{Sm}_{1-x}\text{La}_x\text{NiC}_2$ ($x=0.85, 0.92$ and 0.96) / CHOI Kwang-Yong^{*1}, LEE Wonjun¹, LEE Suheon¹, LEE Kil Jin², KIM Byungjun², SUH Byoung Jin², JANG Zeehoon³, SHIN Soohyeon⁴, PARK Tuson⁴(¹Dept. of Physics, Chung-Ang University, ²Dept. of Physics, The Catholic University of Korea, ³Dept. of Nano and Electronic Physics, Kookmin University, ⁴Dept. of Physics, Sungkyunkwan University)

P2-co.203*

Selective detection of AC transport current distributions of GdBCO coated conductor using Low Temperature Scanning Hall probe Microscopy / KIM Chan, PARK Hee Yeon^{*}, KIM Mu Young^{*}, PARK Sang Kook^{*}(Department of Physics Kyungpook National University)

P2-co.204*

Superconducting films of BaFe_2As_2 by Cobalt ion injections / OH Myeongjun¹, LEE Jongmin², YEO Sunmog³, LEE Sanghan², JO Youn Jung^{*1} (¹Department of physics Kyungpook National University, ²Materials science and engineering Gwangju Institute of Science and Technology, ³Korea Multi-purpose Accelerator Complex)

P2-co.205

금속 절연 및 병렬저항 부착 2세대 고온초전도 코일의 제작과 특성 / 손명환^{*}, 엄범용, 심기덕, 김해종, 성기철(한국전기연구원 HVDC초전도케이블팀)

P2-co.206*

Measurement of reflectance spectrum of a gold film coated on a sample in FIR region / LEE Myounghoon, ROH Seulki, LEE Seokbae, HWANG Jungseek^{*}(Department of Physics, Sungkyunkwan University)

P2-co,207

The Effect of laser fluence on superconductivity of $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$ films in pulsed laser deposition / 이호동* (ibs-CCES, Seoul National University)

P2-co,208

Critical characteristics and performance in REBCO high T_c superconducting wires investigated by optical methods / 김그라시아*, 이재훈², 문승현², 이상갑¹ (한국기초과학지원연구원, 스펀공학물리연구팀, ²(주) 서남)

P2-co,209*

Superconducting properties of the misfit compound $(\text{SnSe})_{1.16}(\text{TaSe}_2)$ / 변도균, 김민재, 송유장, 김가령, 조현용, 이종수* (경희대학교 물리학과)

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P2-co.301

Temperature dependent strain properties of lead-free Sn-doped $\text{Bi}_{1/2}(\text{Na}_{0.82}\text{K}_{0.18})_{1/2}\text{TiO}_3$ relaxor ceramics / HAN Hyoung-Su, LEE Chang-Heon, PARK Young-Seok, DINH Thi Hinh, LEE Jae-Shin* (School of Materials Science and Engineering, University of Ulsan)

P2-co.302*

Fabrication and Comparison of Nd-doped $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ as Bulk Ceramic and Thin Film / JOHNSON Trent Allen, KIM Eunyoung, BU Sangdon* (Department of Physics Chonbuk National University)

P2-co.303

Dielectric response as a function of applied voltage of bismuth-layered perovskite thin films / PARK Jongho* (Department of Science Education Chinju National University of Education)

P2-co.304

Dielectric Relaxation in complex perovskite oxide a strontium gadolinium niobate / PARK Jongho* (Department of Science Education Chinju National University of Education)

P2-co.305

Impedance spectroscopy of hydrogen plasma-treated zinc oxide / LEE Yeonho¹, HAN Junhee¹, PARK Junkue¹, KIM Se-hun², LEE Cheoleui^{*1} (¹Department of Physics, Korea University, ²Faculty of Science Education, Jeju National University, Jeju 63243, Korea)

P2-co.306

리튬이온전지 고체전해질 $x\text{Li}_2\text{O}-\text{SiO}_2-\text{B}_2\text{O}_3$ 유리의 열, 전기, 광학 특성 연구 / 김맥¹, 양용석^{*1}, 권오혁¹, 백창규¹, 최현우², 임영훈³ (¹부산대학교 나노융합기술학과, ²부산대학교 단결정은행연구소, ³세명대학교 교양과정부)

P2-co.307*

브릴루앙 및 유전 분광법을 이용한 비납계 $(\text{Na}_{0.5}\text{Bi}_{0.5})\text{TiO}_3-\text{BaTiO}_3$ 단결정의 상전이 거동에 대한 전기장 인가 효과 연구 / 이병완¹, 고재현^{*1}, Xiaobing Li², Haosu Luo² (¹한림대학교 응용광물리학과, ²Shanghai Institute of Ceramics, China)

P2-co.308*

Raman mapping study of pigment distribution in wood decoration of Korean cultural heritages / Ji Jeong-Eun¹, HAN Kiok¹, KIM Seung¹, KANG Daeil², LEE Hanhyung², YANG In-Sang*¹(¹Ewha Womans University, Department of Physics, ²Korea National University of Cultural Heritage, Department of Conservation Science)

P2-co.309

A Study on Temperature-Dependent Optical Properties of GaFeO₃ by Spectroscopic Ellipsometry / NGUYEN Hoang Tung¹, KIM Tae Jung¹, PARK Han Gyoel¹, LE Van Long¹, KIM Hyoung Uk¹, PARK Chang Bae², SHIN Kwangwoo², KIM Kee Hoon², KIM Young Dong*¹(¹Nano-Optical Property Laboratory and Department of Physics, Kyung Hee University, Seoul 02447, Korea, ²CeNSCMR, Department of Physics and Astronomy, Seoul National University, Seoul 08826, Korea)

P2-co.310*

Optical investigation of the gamma-ray irradiation effects on Pb(Zr,Ti)O₃ thin films / LIM Junhwi¹, LEE Yunsang*¹, YANG Sun A², CHOI Gi Ppeum², BU Sang Don²(¹Department of Physics, Soongsil University, ²Department of Physics, Chonbuk National University)

P2-co.311*

Interdigital-electrodes-based triboelectric generator for harvesting ocean wave energy / JUNG JongHoon*, YUN ByungKil, KIM HyunSoo(Department of Physics, Inha Univeristy)

P2-co.312

파도의 역학적 에너지 수확을 위한 마찰 전기 디바이스 / 정종훈*, 고영준, 윤병길(인하대학교 물리학과)

P2-co.313

원통형 마찰 전기 디바이스를 이용한 해양 에너지 수집 / 정종훈*, 김동영, 윤병길(인하대학교 물리학과)

P2-co.314*

강유전체 PVDF 폴리머를 이용한 마찰 전기 디바이스의 효율 증대 / 정종훈*, 김현수, 윤병길(인하대학교 물리학과)

P2-co.315

비정질 Li₂B₄O₇-BiFeO₃의 결정화 동역학 연구 / 권오혁¹, 양용석¹, 최현우², 김맥¹, 백창규¹, 김수재², 임영훈³(¹부산대학교 나노융합기술학과, ²부산대학교 단결정은행연구소, ³세명대학교 교양과정부)

P2-co.316

등온법을 이용한 고전압 커패시터 $\text{BaO-Na}_2\text{O-Nb}_2\text{O}_5\text{-SiO}_2\text{-B}_2\text{O}_3$ 유리의
결정화기구 연구 / 백창규¹, 최현우², 김수재², 김맥¹, 권오혁¹, 임영훈³, 양용석^{*1}
(¹부산대학교 나노융합기술학과, ²부산대학교 단결정은행연구소, ³세명대학교
교양과정부)

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P2-co.401*

Topological evolution of the ground state property of the Floquet insulator based on Black Phosphorene / PARK Sukyoung, MOON Kyungsun* (Department of Physics and IPAP Yonsei University)

P2-co.402*

Low temperature STM and STS study of single crystalline GeTe (111) surface and its annealing effect / KIM Ji-Ho¹, CHOI Hun-Hee¹, CHUNG In², LYO In-Whan*¹ (Dept. of Physics, Yonsei University, Seoul 120-749, Republic of Korea, ²School of Chem Bio Eng, Seoul National University, Seoul 151-742, Republic of Korea)

P2-co.403

First-principles study of selectively adsorption of rhodamine B on graphene surface / SUNG Dongchul, HONG Suklyun* (Graphene Research Institute and Department of Physic, Sejong University)

P2-co.404

First-principles study of ferromagnetic contact between Ni and MoX₂ (X = S, Se, or Te) / MIN Kyung-Ah¹, CHO Kyeongjae², HONG Suklyun*¹ (Department of Physics and Graphene Research Institute, Sejong University, ²Department of Materials Science and Engineering, The University of Texas at Dallas)

P2-co.405*

Short and Ballistic Josephson Coupling in lateral Graphene Junctions / 박진호¹, 이재형¹, 이길호², Yositake Takane³, Ken-Ichiro Imura³, Kenji Watanabe⁴, Takashi TaniGuchi⁴, 이후종*¹ (포항공과대학교 물리학과, ²Harvard University, USA, ³Hiroshima University, Japan, ⁴National Institute for Materials Science, Japan)

P2-co.406*

Observation of domain switching dynamics in epitaxial BiFeO₃ thin films using modified piezoresponse force microscopy / CHO Samyeon¹, SONG Jaesun², LEE Sanghan², BU Sangdon*¹ (Department of Physics, Chonbuk National University, ²School of Materials Science and Engineering, Gwangju Institute of Science and Technology)

P2-co.407*

Van-der-Waals-gap tunneling spectroscopy for carbon nanotubes with asymmetric contact electrodes / 김우신¹, 최동환¹, 배명호², 김주진¹(¹전북대학교, ²표준과학연구원)

P2-co.408*

Quantized conductance in bilayer graphene constrictions / LEE Hyunwoo¹, WATANABE Kenji², TANIGUCHI Takashi², LEE Hu-Jong^{*1}
(¹Department of Physics, Pohang University of Science and Technology, Korea, ²Advanced Material Laboratory, National Institute for Material Science, Japan)

P2-co.409*

Superconducting proximity effect via quantum-Hall edge states in graphene hybrid devices / PARK Geon-Hyoung¹, KIM Minsoo¹, WATANABE Kenji², TANIGUCHI Takashi², LEE Hu-Jong^{*1}(¹Department of Physics, Pohang University of Science and Technology, Korea, ²National Institute for Materials Science, 1-1 Namiki, Tsukuba 305-0044, Japan)

P2-co.410*

Raman Measurements of SnS₂ and SnSe₂ with Various Excitation Sources / SRIV Tharith, LEE Jae-Ung, KIM Kangwon, CHEONG Hyeonsik^{*}
(Department of Physics, Sogang University)

P2-co.411*

External electric field effects on Raman and photoluminescence spectra of few-layer MoS₂ / 김강원¹, 이재웅¹, 김민정¹, 이미정², 김학성², 이상욱³, 박배호², 정현식^{*1}(¹서강대학교 물리학과, ²건국대학교 물리학과, ³이화여자대학교 물리학과)

P2-co.412

박막형 LiT_xMn_{2-x}O₄ (T = Ti, Cr) 이차전지 양극의 구조적 변화 및 충·방전 특성 탐구 / 박소연, 박종호, 김광주*(건국대학교 물리학과)

P2-co.413*

Synthesis and characterization of Ni_{0.65}Zn_{0.35}Fe₂O₄ ferrite nanoparticles for hyperthermia applications / RHEE Ilsu^{*}, AHMAD Ashfaq(Department of Physics Kyungpook National University)

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P2-co.501

Electrical Probing of the Scanning Probe Microscopy by using Electrolyte-Cantilever / JANG YunHyeong¹, CHO JinHyung^{2*}(¹RCDAMP and Department of Physics, Pusan National University, ²RCDAMP and Department of Physics Education, Pusan National University)

P2-co.502

Observation of Mg-induced structural and electronic properties of graphene / 김진걸¹, Laishram Tomba Singh², 이팽로¹, 류민태¹, 박희민¹, 황찬국³, 김광수², 정진욱¹(¹포항공과대학교 물리학과, ²울산과학기술원 화학과, ³포항가속기 빔라인부)

P2-co.503*

Visible light modulated phototransistors based on ZnO and CdSe/ZnS quantum dots / CHO Jae Eun, YU Jiin, KANG Seong Jun*(Department of Advanced Materials Engineering for Information and Electronics Kyung Hee University)

P2-co.504

Structural study of inorganic-organic hybrid thin films with two dimensional perovskite structure prepared by spin-coating method / PARK Garam^{1,2}, KIM Ki-Yeon¹, OH In-Hwan¹, PARK Sungil J. M.³(¹KAERI, 989-111 Daedeok-daero, Yuseong-gu, Daejeon, 305-353, Korea, ²Department of Chemistry, Korea University, Seoul 136-713, Korea, ³Neutron Instrumentation Division, KAERI, 989-111 Daedeok-daero, Yuseong-gu, Daejeon, 305-353, Korea)

P2-co.505

Impedance Spectroscopy of Surface States in Bi₂Se₃ Nanoparticles / CHOI Dongmin, KIM Dowan, LEE Cheoleui*(Department of Physics, Korea University)

P2-co.506*

Facile Transfer of Embedded Ultra-long single crystalline VO₂ Nanowires by Simple Heat Treatment / HWANG Jaeseok, KANG Dae Joon*(Department of Physics and Energy Science, Sungkyunkwan University)

P2-co.507*

The Hybridizations of Cobalt 3d Bands with the Electron Band Structure of the Graphene/Cobalt Interface on a Tungsten Substrate / Hosu Lee¹, Jinwoong Hwang¹, Nak-Kwan Chung², A.D.N'Diaye³, Jonathan Denlinger⁴, A.K. Schmid³, Choongyu Hwang^{*1} (¹Department of Physics, Pusan National University, ²Vacuum Center, Korea Research Institute of Standards and Science, ³National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, ⁴Advanced Light Source, Lawrence Berkeley National Laboratory)

P2-co.508

반쪽 금속 강자성체 CrO₂의 연 X선 방사광 분광 연구 / 성승호¹, 김대현¹, 이은숙¹, 김현우¹, 이순철², 도중화³, 김영학⁴, 김재영⁴, 강정수^{*}(¹가톨릭대학교 물리학과, ²KAIST 물리학과, ³경북대학교 물리학과, ⁴포항가속기연구소)

P2-co.509*

STM을 이용한 SnSe_{1-x}S_x 표면구조 연구 / 김태훈^{1, 2}, Trinh Thi Ly^{1, 2}, Ganbat Duvjir^{1, 2}, Nguyen Thi Minh Hai^{1, 2}, Taewon Min³, Jaekwang Lee³, Sunglae Cho^{1, 2}, Jungdae Kim^{*1, 2}(¹울산대학교 물리학과, 44610, ²울산대학교 대학중점연구소(EHSRC), 44610, ³부산대학교 물리학과, 46269)

P2-co.510

에너지 절감을 위한 colorized 단열 멀티 코팅에 대한 효율 연구 / 이동훈*, 박은미, 서문석(전자부품연구원 나노소재부품연구센터)

P2-co.511*

Visible Luminescence Tuning by Element Selective Annealing and Oxide Matrix Etching on Silicon Nanocrystals / 정남식, 주범수, 한문섭*(서울시립대학교 물리학과)

P2-co.512*

Unusual electron self-energy of graphene on a variable dielectric constant material / HWANG Jinwoong¹, RYU Hye-Jin^{2, 3}, WANG Debin⁴, DENLINGER Jonathan², ZHANG Yuegang⁴, LANZARA Alessandra⁵, MO Sung-Kwan², HWANG Choongyu^{*1}(¹Department of Physics, Pusan National University, Busan 46241, Korea, ²Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, CA 94709, USA, ³Max Plank POSTECH Center for Complex Phase Materials, Pohang University of Science and Technology, ⁴The Molecular Foundry, Lawrence Berkeley National Laboratory, Berkeley, CA 94720, USA, ⁵Materials Sciences Division, Lawrence Berkley National Laboratory and Department of Physics, University of California, Berkeley)

P2-co.513

Ab initio study of strained graphene nanowrinkles on Ni(111) substrate / 박진우, 홍석륜*(Graphene Research Institute and Department of

P2-co.514

철 산화물 나노입자 제작 및 크기 변화에 따른 자기적 특성 연구 / 김병준, 이길진¹, 이종현², 장지훈³, 서병진¹(¹가톨릭대학교 물리학과, ²가톨릭대학교 화학과, ³국민대학교 나노전자물리학과)

P2-co.515

전해질 내에 Sodium Silicate 농도가 플라즈마 전해 산화에 의해 형성된 마그네슘 산화막 특성에 미치는 영향 / 황덕록¹, 이도경¹, 이재열²(¹대구가톨릭대학교 신소재화학공학과, ²(주)화진)

P2-co.516*

Annealing dependence of ferroelectric domain patterns in h-REMnO₃ / SHIN Jae sung¹, LEE Nara², CHOI Young Jai³, CHAE Seung Chul¹(¹Department of Physics Education, Seoul National University, Seoul 08826, Korea, ²Institute of Physics and Applied Physics, Yonsei University, Seoul 120-749, Korea, ³Department of Physics, Yonsei University, Seoul 120-749, Korea)

P2-co.517

Study on the cytotoxicity of graphene nanosheet for blood-coagulation protein employing molecular dynamics simulation / JO Byeong Cheol, WU Sangwook*(Department of Physics, Pukyong National University)

P2-co.518

First-principles study of metal adatom adsorption on blue phosphorene / SON Jicheol, HONG Jisang*(Department of Physics, Pukyong National University)

P2-co.519

태양광 발전시스템의 외장 발수를 위한 전이금속이 첨가된 TiO₂ 박막의 표면 특성 / 이도경¹, 정지혜², 김정환¹, 최덕영¹, 김월영²(¹대구가톨릭대학교 신소재화학공학과, ²(주)솔라라이트)

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P2-co.601

Infinite Parallel Plates Algorithm / HWANG Chi-Ok*(Division of Liberal Arts and Sciences)

P2-co.602

Strain-dependent magnetic orderings in layered transition metal trichalcogenide CrSiTe₃: A first-principles study / KANG Sungmo, YU Jaejun*(Department of Physics & Astronomy Seoul National University)

P2-co.603

Effects of spin-orbit coupling on the electronic structure of band-gap inverted bulk black phosphorus / KIM Han-gyu, CHOI Hyoung Joon*(Department of Physics and IPAP, Yonsei University, Seoul 03722, Korea)

P2-co.604

Electronic structures and topological properties of YbB₆ and YbB₁₂ / RHYU Dong-Choon¹, KANG Chang-Jong¹, KIM Kyoo², MIN Byung Il¹(¹Department of Physics, POSTECH, ²Max Planck POSTECH Center for Complex Phase Materials)

P2-co.605*

전하가 주입된 Si(5512)-2x1표면에서 스핀편극 계산 연구 / 여강모, 정석민*(전북대학교 물리학과, 이화학연구소)

P2-co.606*

Ab-initio studies on polymorphism and phase transition in MoS₂ / 전세라, 이재광*(부산대학교 물리학과)

P2-co.607*

First Principle Study of Structure and Electronic Properties with strained GeTe / 박한진, 권영균*(경희대학교 물리학과)

P2-co.608*

B20 구조를 가지는 MnSi의 응력효과 따른 전자구조 및 자기적 특성에 대한 제일원리계산 / 박진식, 임성현*, 홍순철*(울산대학교 물리학과)

P2-co.609*

Evolution of crystal structures of GeTe under phase transformation / JEONG Kwangsik, CHAE Jimin, YANG Wonjun, PARK Hanbum, KIM DaSol, CHO Mann-Ho* (Department of Physics Yonsei University)

P2-co.610*

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

P2-co.611*

Structural and Electronic Properties of CdS/ZnS Core/shell Nanowires: A First-principles Study / KIM Hyo Seok, KIM Yong-Hoon* (Graduate School of EEWS, KAIST, 291 Daehak-ro, Yuseong-gu, Daejeon 305-701, Korea)

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P2-co.701

Low-lying energy bands in a periodic potential and energy eigenvalues in a multiple-well potential / SONG Dae-Yup*

(Department of Physics Education Suncheon National University)

P2-co.702

Controlling CO₂ capture process on Sc-, Ti-, and V-porphyrin-like graphene with mechanical strain / PARK Sungjin, BAE Hyeonhu, LEE

Hoonyung, KWON Yongkyung*(School of Physics, Konkuk University)

P2-co.703

Implementation of phonon dispersion with LO-TO splitting in OpenMX for studying polar materials / LEE YungTing^{*1}, LEE ChiCheng²,

HAN MyungJoon¹, OZAKI Taisuke²(¹Department of Physics, Korea Advanced Institute of Science and Technology, ²Institute for Solid State Physics, Tokyo University)

P2-co.704

Magnetic properties of ferromagnetic semiconductors of single-layer CrXTe₃ (X = Si, Ge, and Sn): A first-principles study / YUN

Won Seok, LEE J. D.*(Department of Emerging Materials Science, DGIST)

P2-co.705*

Interaction of a borazine molecule and the Pt(111) surface: First principles study / PARK Karam, JEONG Sukmin*(Department of Physics

Chonbuk National University)

P2-co.706*

Carbon dioxide adsorption and conversion by metal-porphyrin-like graphene structures / LEE Seunghan, BAE Hyeonhu, PARK Minwoo,

YANG Hyungmo, LEE Hoonyung*(Department of Physics Konkuk University)

P2-co.707*

Local atomic properties on phase change materials Ge₂Sb₂Te₅: Ab initio study / SONG Hosin, PARK Hanjin, KIM Cheol-Woon, KWON Young-

Kyun*(Department of Physics and Research Institute of Basic Sciences, Kyung Hee University, Seoul, Korea)

P2-co.708*

First principles study on the electrical and thermoelectric properties of isoelectronic doping in SnSe* / 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)

P2-co.709*

Effective tight-binding models of gapped Bernal multilayer graphene / PARK Youngju, HAN Moonup*, JUNG Jeil* (Department of Physics University of Seoul)

P2-co.710*

Effects of Fe-atom on electronic and catalytic properties of two-dimensional C₂N Crystals : A first-principles study / NOH Min Jong, KIM Yong-Hoon*, CHOI Ji Il, KIM Han Seul (한국과학기술원 EEWS대학원)

P2-co.711*

Understanding Oxidation Mechanism of MoS₂ Slab and Ribbon; First Principles Calculations / RAMZAN Muhammad Sufyan, CHOI Ji Il, KIM Yong-Hoon* (Graduate School of EEWS, Korea Advanced Institute of Science and Technology, Daejeon Korea)

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P2-co.801*

Ultrafast Electronic Rearrangement in Fe_3O_4 studied-by x-ray Absorption Spectroscopy Using Laser Plasma x-ray Source /

ANWAR Muhammad Ijaz¹, IQBAL Mazhar¹, A. JANULEWICZ Karol², NOH Do Young^{*1}(¹Department of Photonics and Applied Physics, Gwangju Institute of Science and Technology, Gwangju, Korea, ²Institute of Optoelectronics Military University of Technology, Poland)

P2-co.802*

Finite Element Analysis of Internal Deformation Field Distribution of ZSM-5 Zeolites during Hydrocarbon Adsorption /

김재승, 강진백, 김현정*(서강대학교 물리학과)

P2-co.803*

Kinetics of Internal Strain of Zeolites during the Catalytic Process

/ KANG Jinback¹, CARNIS Jerome¹, CHUNG Myungwoo¹, KIM Dongjin¹, LEE Heeju^{1, 2}, AN Gukil¹, CHA Wonsuk³, HARDER Ross⁴, SONG Sanghoon⁵, SIKORSKI Marcin⁵, ROBERT Aymeric⁵, PHAM Tung Cao Thanh⁶, YOON Kyung Byung⁶, CHOI Yong Nam², CLARK Jesse^{7, 8}, ROBINSON Ian K.⁹, KIM Hyunjung^{*1} (¹Department of Physics, Sogang University, Korea, ²Korea Atomic Energy Research Institute, Korea, ³Materials Science Division, Argonne National Laboratory, USA, ⁴Advanced Photon Source, Argonne National Laboratory, USA, ⁵Linac Coherent Light Source, SLAC National Accelerator Laboratory, USA, ⁶Department of Chemistry, Sogang University, Korea, ⁷Stanford PULSE Institute, SLAC National Accelerator Laboratory, USA, ⁸Center for Free-Electron Laser Science (CFEL), Deutsches Elektronensynchrotron (DESY), Germany, ⁹London Centre for Nanotechnology, University College London, UK)

P2-co.804*

Resolution Improvement of Coherent X-ray Diffraction Imaging by sub-pixel motion /

YUN Kyuseok, KIM Sungwon, KIM Hyunjung* (Department of Physics, Sogang University, Korea.)

P2-co.805*

Characterization of the coherence property of XFEL in shot-to-shot by Young's double slit experiment. /

CHO Dohyung¹, YANG Jiseok¹, NAM Daewoong¹, KIM Sangsoo², SONG Changyong^{*1}(¹Department of Physics, POSTECH, Pohang 37673, S. Korea, ²Pohang Accelerator Laboratory, Pohang 37673)

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P2-op.001

람다구도의 루비덤 기체셀에서 비-고전적 광자 쌍 생성 / 정택, 문한섭*
(부산대학교 물리학과)

P2-op.002*

Young's double-slit interference pattern from a high power THz gyrotron based Laguerre Gaussian beam / YU Dongho^{*1}, KIM Dongsung¹, SAWANT Ashwini², CHOI EunMi^{*1}(¹School of Natural Science, Ulsan National Institute of Science and Technology, ²School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology)

P2-op.003

Average Refractive Index Distribution measurement by Dual-wavelength Digital Holographic / YU Younghun*, NA Silin, KIM Doocheol(Department of Physics Jeju National University)

P2-op.004

3-D Measurement of Fine Metal Mask using Fringe Projection Profilometry / YU Younghun*, NA Silin, KIM Doocheol(Department of Physics Jeju National University)

P2-op.005

메타표면 금 구멍 배열 박막의 Extraordinary Transmission 연구
Extraordinary Transmission of Gold Hole Array Metasurfaces / 함원규¹, 김민석¹, 김원영¹, 이건준², 황보창권¹(¹인하대학교 물리학과, ²광운대학교 전자바이오물리학과)

P2-op.006

FTIR 기반 원격 화학탐지장비의 특성 연구 / 이종민*(국방과학연구소 5본부3부)

P2-op.007

자외선 유도형광 기술 기반 소형 생물입자 탐지센서 연구 / 이종민*, 정유진, 정영수, 최기봉(국방과학연구소 5본부3부)

P2-op.008

라만 라이다를 이용한 수소가스의 원격 탐지 / 백성훈¹, 박승규¹, 박락규¹, 최인영¹, 최영수²(¹한국원자력연구원 양자광학연구부, ²한국원자력연구원 원자력융합기술개발부)

P2-op.009

극초단 전자가속기의 전자빔 변수 최적화 / 김현우^{1, 2}, 박선정¹, 배상윤¹, 문정호¹, 남진희^{1, 2}, 백인형¹, 장규하^{1, 2}, 이기태^{1, 2}, 박성희^{1, 2}, 정영욱^{*1, 2}
(¹한국원자력연구원, 양자빔기반 방사선 연구센터, ²과학기술연합대학원대학교, 가속기 및 핵융합 물리공학)

P2-op.010*

테라헤르츠 빔의 공간적 분포를 측정하기 위한 전기광학적 기술 / 김영찬^{1, 2}, 한병헌¹, 김미혜¹, Mukesh Jewariya¹, 백인형¹, 김경완², 정영욱^{*1}
(¹한국원자력연구원 양자빔기반방사선연구센터, ²충북대학교 물리학과)

P2-op.011

10 W Kerr-lens mode-locked Yb:YAG thin disk laser / 최준희¹, 유제윤², 성재희^{1, 2}, 이성구^{*1, 2}(¹광주과학기술원 고등광기술연구소, ²기초과학연구원 초강력레이저과학연구단)

P2-op.012*

Measurement of sub-100 fs electron bunch duration using RF deflecting cavity / PARK Sunjeong^{1, 2}, KIM Hyun Woo², BAE Sangyoon², MUN Jungho², JANG Kyuha², LEE Kitae², PARK Seong Hee², JEONG Young Uk^{*2}, KIM Eun-San³, KIM HongJoo¹(¹Department of physics, Kyungpook National University, ²Center for Quantum-Beam-based Radiation Research, Korea Atomic Energy Research Institute, ³Department of accelerator science, graduate school, Korea University Sejong campus)

P2-op.013*

New Circuit QED system based on Triple-leg Stripline Resonator / KIM Dongmin, MOON Kyungsun*(Department of Physics and IPAP Yonsei University)

P2-op.014

SESAM을 이용한 모드 잠금 레이저의 발진 특성 / 김성기, 김용기*(공주대학교 물리학과)

P2-op.015

Design of a stereo time-of-flight spectrometer for the measurement of the carrier-envelope-phase of ultrashort laser pulses / KIM Yangghan^{1, 2}, KIM Kyungseung², 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)

P2-op.016*

Nonlinear Optical Loop Mirror 기반의 모드잠금된 편광유지 이터불 광섬유 레이저 공진기 / 곽대훈^{*1}, 차용호², 김수원³, 정도영², 김용기¹

(¹공주대학교 물리학과, ²한국원자력연구원 양자광학부, ³과학기술연합대학원대학교)

P2-op.017*

Yb 첨가된 광섬유 공진기와 광섬유 전단 증폭기로 구성된 레이저 시스템의 모드 잠금된 출력 특성 연구 / 조영훈, 채동원, 성준영, 나은주, 김현수*(조선대학교 광기술공학과)

P2-op.018

Classical understanding of an electron vortex in a uniform magnetic field / CHOI taeseung^{*1}, HAN yeong deok²(¹Division of Applied Food System, Seoul Women's University, ²Department of Computer Science and Engineering, Woosuk University)

P2-op.019

다이오드 여기 Yb 첨가 광섬유의 방출광 분석 / 오민¹, 서의현², 이호재², 조현준², 황민승², 김경웅², 이종훈^{*1}(¹영남대학교 물리학과, ²대구과학고등학교)

P2-op.020

유체역학 모델을 이용한 2차원 금속 구조에서의 2차 조화파 발생 수치해석 연구 / 유경완, 유선규, 박현희, 홍지호, 박남규(서울대학교 광자시스템연구실)

P2-op.021

5차조화파 생성을 위한 공랭식 4면여기 Nd:YAG 레이저 개발 / 이재환^{*1}, 하연철¹, 김재인², 조준용², 강영일¹(¹국방과학연구소 제5기술연구본부 3부, ²(주)한화 종합연구소)

P2-op.022*

Optically controlled terahertz modulator based on CH₃NH₃PbI₃ perovskite materials / LEE Kyu-Sup¹, KANG Rira², SON Byungwoo¹, KIM Dong-Yu³, YU Nan Ei^{*4}, KO Do-Kyeong^{*1} (¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology(GIST), ²Radiation Research Division for Industry & Environment, Korea Atomic Energy Research Institute(KAERI), ³School of Materials Science and Engineering, GIST, ⁴Advanced Photonics Research Institute(APRI), GIST)

P2-op.023

레이저 빔 프로파일에 따른 광 포획 효율의 변화 / 김은선, 이승석, 김주하, 최남건, 이동현, 최은서*(조선대학교 자연과학대학 물리학과)

P2-op.024

Speos를 기반으로 차량 운전자가 느끼는 태양광 눈부심 연구 / 성훈금, 최은정^{*1}, 양석준², 이우진¹, 이태현¹, 배수빈¹, 전승기¹(¹건양대학교 안경광학과, ²건양대학교 산학협력단)

P2-op.025

청색광 반사코팅에 의한 미광분석 / 성훈금¹, 최은정^{*1}, 양석준², 이태현¹,
이우진¹, 심햇살¹, 김윤정¹(¹건양대학교 안경광학과, ²건양대학교 산학협력단)

P2-op.026

Light tools을 이용한 수정체 혼탁에 따른 망막 상의 질 평가 / 성훈금¹,
최은정^{*1}, 양석준², 이태현¹, 이우진¹, 이권재¹, 박혜진¹(¹건양대학교 안경광학과,
²건양대학교 산학협력단)

P2-op.027

컬러 미러 렌즈의 색상에 따른 투과율 및 반사율과 색상 분석 / 성훈금¹,
최은정^{*1}, 이우진¹, 이태현¹, 황재영¹, 신지원¹, 김다영¹(¹건양대학교 안경광학과,
²건양대학교 산학협력단)

Hanging posters: 2016. 10. 20 Thursday 13:00 – 10. 21 Friday 12:00

Presentation : 2016. 10. 20 Thursday 18:00 - 19:30

Place: Multipurpose Hall

P2-pl.001

Gas Electron Multiplier 검출기 기반의 핀홀 카메라를 활용한 KSTAR 플라즈마의 2차원 연X-선 이미징 진단 / 전태민^{1, 2}, 송인우^{1, 2}, 장주혁^{1, 2}, D. Pacella³, F. Cordella³, G. Claps^{3, 4}, F. Murtas^{3, 4}, 이승현⁵, 최원호^{*1, 2}(¹KAIST 물리학과, ²KAIST 불순물 및 경계플라즈마 연구센터, ³ENEA Unità Tecnica Fusione, ⁴Istituto Nazionale di Fisica Nucleare, ⁵국가핵융합연구)

P2-pl.002

Amorphous Hydrogenated Carbon Layer Deposition for Erosion Study in KSTAR / SON Soo Hyun^{*1}, BANG Eunnam¹, HONG Suk-Ho^{1, 2, 3} (¹KSTAR research center, National Fusion Research Institute (NFRI), ²Department of electrical engineering, HanYang University, Seoul, Korea, ³Department of accelerator and nuclear fusion physical engineering, UST, Daejeon, Korea)

P2-pl.003

Empirical scaling for global energy confinement time in KSTAR using Neural Network / PARK J.K.¹, NA D.H.¹, KIM H.S.², YANG S.M.¹, NA Yong-Su^{*1}(¹Seoul National University, ²National Fusion Research Institute)

P2-pl.004

ECE measurement of electron temperature using a W-band heterodyne radiometer in KSTAR / LEE Kyu-Dong^{*}, KANG Chansu, KIM Yongsun(National Fusion Research Institute)

P2-pl.005

Measurement of bremsstrahlung by using improved hybrid-type polychromator in KSTAR Thomson system / LEE Jong-ha^{*1}, LEE Seung Hun¹, KO Won ha¹, SEO Dong Cheol¹, SON Soohyun¹, YAMADA Ichihiko² (¹National Fusion Research Institute (NFRI), ²National Institute for Fusion Science (NIFS))

P2-pl.006

5-GHz 0.5-MW prototype PAM development for KSTAR LHCD system / KIM Jeehyun^{*}, WANG Sonjong, HAN Jongwon, WI Hyunho, SEON Sangwon(KSTAR center, NFRI)

P2-pl.007*

The Study of Quasi-Optical Pulse Compression System in

Millimeter wave for Fast Control of ECH/CD Beam / CHOE Mun Seok¹, SAWANT Ashwini², CHOI EunMi^{*1, 2}(¹Department of Physics Ulsan National Institute Science and Technology, ²Department of Electrical Engineering Ulsan National Institute Science and Technology)

P2-pl.008

KSTAR에서 IRTV 진단을 이용하여 in/out target으로 빠져나가는 열속 측정 / 서동철^{*1, 2}, 이형호¹, 홍석호^{1, 2, 3}(¹국가핵융합연구소, ²과학기술연합대학원대학교, ³한양대학교)

P2-pl.009

Upgrade of the in-vessel visible inspection system operation software and hardware for a long-pulse plasma in KSTAR / WI Hanmin^{*1}, CHUNG Jinil¹, KIM Whanwoo²(¹National Fusion Research Institute, ²Chungnam National University)

P2-pl.010

Gyro-kinetic Simulation Study of Tokamak Micro-turbulence / 이경표¹, Tomohiko Watanabe^{*2}, 함택수^{*1}(¹서울대학교 원자핵공학과, ²나고야대학교 물리학과)

P2-pl.011

Runaway Electron Suppression by Supersonic Molecular Beam Injection in KSTAR Plasmas / 이동렬^{*}, 강찬수, 이상곤, 서동철, 박병호, 김희수(National Fusion Research Institute)

P2-pl.012

FPGA를 이용한 KSTAR MMWI의 플라즈마 밀도 측정 알고리즘 / 김명규^{*}, 이태구, 이웅렬(국가핵융합연구소)

P2-pl.013*

이미징 볼로미터 진단계를 이용한 KSTAR 플라즈마의 2차원 방출광 영상 진단 / 장주혁^{1, 2}, 최원호^{*1, 2}, Byron Jay Peterson³, 오승태⁴, 이형호⁴, 서동철⁴, Ryuichi Sano⁵, 홍석호⁴, Kiyofumi Mukai³, 홍주환^{1, 2}, 이현용^{1, 2}(¹대전광역시 유성구 대학로 291, 한국과학기술원 물리학과, ²대전광역시 유성구 대학로 291, 한국과학기술원, 불순물 및 경계플라즈마 연구센터, ³National Institute for Fusion Science (NIFS), 322-6 Oroshi-cho, Toki-shi 509-5292, Japan, ⁴대전광역시 유성구 과학로 169-148, 국가핵융합연구소(NFRI), ⁵National Institutes for Quantum and Radiological Science and Technology (QST), Naka, Ibaraki, 311-01)

P2-pl.014

Thermo-mechanical assessment of K-DEMO divertor target with heat sink materials applying RAFM steel and CuCuZr / KWON Sungjin^{*}, IM Kihak, PARK Jong Sung(국가핵융합연구소)

P2-pl.015*

Classification of Operation regimes by sawtooth activity in KSTAR high heating phase / LEE Young-Ho¹, BYUN Cheol-Sik¹, YOO Min-Gu¹, NA Dong-Hyeon¹, PARK Min-Ho¹, JEON Young-Mu², KIM Hyun-Seok², KIM Jay-Hyun², WOO Min-Ho², NA Yong-Su^{*1}(¹Seoul National University, Seoul, Korea, ²National Fusion Research Institute, Daejeon, Korea)

P2-pl.016

Mode Converter and Bend for Lower Loss KSTAR LHCD Transmission-line / SEONG Taesik^{*1}, CHO Moohyun², NAMKUNG Won³
(¹Department of Physics POSTECH, ²Department of Physics and Division of Advanced Nuclear Engineering POSTECH, ³Pohang Accelerator Laboratory)

P2-pl.017*

Effect of the pressure gradient of top pedestal region on the Stability of Edge Pedestal / KIM SangKyeun¹, NA YongSu¹, KWON OhJin^{*2}(¹Department of Nuclear Engineering, Seoul National University, Seoul, Korea, ²Department of Physics, Daegu University, Daegu, Korea)

P2-pl.018

Influence of gap geometry and leading edge height on re-deposition pattern and fuel retention / BANG Eunnam^{*1}, HONG Suk-ho^{1, 2, 3}, KIM Kyungmin¹, KIM Hongtack¹(¹National Fusion Research Institute, ²Korea University of Science and Technology, ³Department of electrical engineering, Hanyang University)

P2-pl.019*

In-situ TDS measurements of ARAA irradiated with deuterium ions / SHIN H. W.¹, BYEON W. J.¹, KIM H. S.¹, LEE Cheol Eui², KIM Jaeyong³, NOH S. J.^{*1}(¹Department of Applied Physics, Dankook University, Yongin-si, Korea, ²Department of Physics, Korea University, Seoul, Korea, ³Department of Physics, Hanyang University, Seoul, Korea)

P2-pl.020*

Hydrogen-permeation Experiments of the Ti-RAFM Steel / BYEON W. J.¹, SHIN H. W.¹, KIM H. S.¹, KIM Yongmin¹, LEE Chang-hoon², LEE S. K.³, NOH S. J.^{*1}(¹Department of Applied Physics, Dankook University, Yongin-si, Korea, ²Korea Institute of Materials Science, Changwon, Korea, ³Korea Atomic Energy Research Institute, Daejeon, Korea)

P2-pl.021

KSTAR의 플라즈마 제어를 위한 자기적 신호의 개선 / 김흥수^{*1}, 박준교¹, 한상희¹, 김환우²(¹국가핵융합연구소, ²충남대학교 전자전파정보통신공학과)

P2-pl.022

반사계를 이용한 플라스마 밀도 분포 측정 / 서성현*(국가핵융합연구소 플라스마진단연구팀)

P2-pl.023

1차원 Hybrid model을 이용한 Pulse mode Capacitively Coupled Plasma 장치 해석 / 이윤호, 이정열, 김진석, 이해준*(부산대학교 전기전자컴퓨터공학과)

P2-pl.024*

2차원 Particle-in-Cell Model을 이용한 증착용 Capacitively Coupled Plasma의 Step Ionization 효과 연구 / 김창호¹, 김진석¹, 김호준², 이해준^{*1} (¹부산대학교 전기전자컴퓨터공학과, ²삼성전자)

P2-pl.025*

CF₄/O₂ 가스를 사용한 식각용 유도결합 플라스마의 전산모사 / 박건우, 허민영, 이해준*(부산대학교 전기컴퓨터공학과)

P2-pl.026

Wide Bandwidth of Anti-Reflective Window for Terahertz Vacuum Electronic Devices / KWON Ohjoon^{*1}, BAEK In-Keun², KIM Seontae², MIN Sun-Hong³, PARK Gun-Sik²(¹Institute for Basic Science, ²Seoul National University, ³Korea Institute of Radiological & Medical Sciences)

P2-pl.027*

대기압 플라스마 화학종의 바이오필름 제거 역할 연구 / 박주영, 최원호*(KAIST 물리학과)

P2-pl.028*

Design of High Efficiency Flat-Field Grating Soft X-ray Spectrometer / KANG G. B.^{1, 2}, BAE L. J.^{1, 2}, CHO Min Sang^{1, 2}, KIM YoungHoon^{1, 2}, CHO B. I.^{*1, 2}(¹Department of Physics and Photon Science, Gwangju Institute of Science and Technology, ²Center for Relativistic Laser Science, Institute of Basic Science)

P2-pl.029*

Linear mode conversion of fs laser pulse into THz pulse at the surface of high pressure plasma jet / JO Jawon^{1, 2}, GENG Xiaotao^{1, 2}, LEE Jong-Won^{2, 4, 5}, CHAE Sugang¹, LEE Min Uk³, KIM Dong Eon^{1, 2}, YUN Gunsu^{*1, 2, 3} (¹Department of Physics, POSTECH, Pohang 37673, Republic of Korea, ²Max Planck Center for Attosecond Science, Max Planck POSTECH/Korea, Pohang, 37673 Republic of Korea, ³Division of Advanced Nuclear Engineering, POSTECH, Pohang, 37673, Republic of Korea, ⁴Department of Physics and Photon Science, GIST, Gwangju, 61005, Republic of Korea, ⁵Center of Relativistic Laser Science at IBS, Gwangju, 61005, Republic of Korea)

P2-pl.030*

Measurement of the plasma density by using terahertz time-domain spectroscopy (THz-TDS) / 장도근¹, 엄환섭², 장동규¹, 강기곤¹, 석희용^{*1}(¹광주과학기술원 물리광과학과, ²광운대학교 전자바이오물리학과)

P2-pl.031

고효율 홀 추력기 개발을 위한 전자전류 최소화용 자기장 구조 제어 연구 / 이승훈, 김호락, 임유봉, 최원호*(한국과학기술원 물리학과)

P2-pl.032*

Two dimensional simulation of underwater wire explosion driven by pulsed capacitive discharge / LEE Kern¹, CHUNG Kyoung-Jae^{*1}, HWANG Y. S.¹, KIM D.-K.²(¹⁻²Department of Nuclear Engineering, Seoul National University, ²Agency for Defense Development)

P2-pl.033

Dual effects of solutions treated with plasma generated nitric oxide (PGNO) / JEON Seong Sil¹, KANG Min Ho¹, JI Sang Hye¹, SHIN So Min², LEE Jin Seon², SHIN Jae Ho², CHOI Eun Ha¹, UHM Han Sup¹, PARK Gyung Soon^{*1}(¹Plasma Bioscience Research Center, Kwangwoon University, ²Department of Chemistry, Kwangwoon University)

P2-pl.034

Study on the disinfection of rice seeds using ozone and arc discharged plasma / KANG Min Ho¹, CHOI Kyung Hoon², CHOI Eun Ha^{1,2}, UHM Han Sup^{1,2}, PARK Gyungsoon^{*1,2}(¹Department of Electrical and Biological Physics, Kwangwoon University, ²Plasma Bioscience Research Center, Kwangwoon University)

Hanging posters: 2016. 10. 20 Thursday 13:00 – 10. 21 Friday 12:00

Presentation : 2016. 10. 20 Thursday 18:00 - 19:30

Place: Multipurpose Hall

P2-se.001

Study on defect states in InP/InGaAs/InP heterostructures by deep level transient spectroscopy / VU Oanh Thi Kim¹, LEE Kyoung Soo¹, LEE Sang Jun², KIM Eun Kyu^{*1}(¹Korea Research Institute of Standards and Science, ²Department of Physics Hanyang University)

P2-se.002*

Effect of interfacial reaction on electrical properties in HfO₂/InAs structure / BAIK Min¹, KANG Hang-kyu¹, JEONG Kwang-sik¹, KIM Dae-kyoung¹, AN Young-seo², KIM Hyoung-sub², SONG Jing-dong³, CHO Mann-ho^{*1}(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)

P2-se.003*

Introduction of GaN capping layer in the InGaN/GaN multiple quantum wells for long wavelength emission / WOO Hyeonseok^{1, 2}, KIM Jongmin², CHO Sangeun², JO Yongcheol², ROH Cheong hyun¹, LEE Jun Ho¹, IM Hyunsik², HAHN Cheol-Koo^{*1}(¹Display Convergences Research Center, Korea Electronics Technology Institute, ²Division of Physics and Semiconductor Science, Dongguk University)

P2-se.004

Optical quenching in InAs quantum dots / KIM Yongmin^{*1}, SHIN Y. H.^{*1}, SONG J. D.²(¹Dankook University, ²Korea Institute of Science and Technology)

P2-se.005

플라즈몬 공명을 통한 나노와이어 투명 전극 연구 / 조유현¹, 박현선¹, 김민우¹, 김자연², 권민기^{*1}(¹조선대학교 광기술공학과, ²한국광기술원)

P2-se.006

고연색 백색 LED를 위한 표면플라즈몬을 이용한 형광체 효율 향상 / 박현선¹, 조유현¹, 김민우¹, 김자연², 박종락¹, 권민기^{*1}(¹조선대학교 광기술공학과, ²한국광기술원)

P2-se.007*

Cu 불순물 도핑을 통한 p형 NiO 전도성 산화물의 합성 / 박성곤¹, 방준호², 이재훈¹, 이용제¹, 이기문^{*1}(¹Department of Physics, Kunsan National University, Korea, ²Materials Research Center for Element Strategy, Tokyo Institute of

Technology, Japan)

P2-se.008*

Hydrothermal Synthesis of CuCo_2O_4 electrodes for supercapacitor applications / . Abu Talha A. A, CHAVAN Harish S., CHO Sanguen, JO Yongcheol, KIM Jongmin, LEE Seongwoo, PAWAR S. M., INAMDAR A. I., KIM Hyungsang, IM Hyunsik* (Division Of Physics and Semiconductor Science, Dongguk University)

P2-se.009*

Sequential annealing effects of HfSiON gate dielectric films on n-type Ge substrate / KWON Sera, SONG AeRan, CHUNG Kwun-Bum* (Division of Physics and Semiconductor Science, Dongguk University)

P2-se.010*

치환형 Cu 도핑을 통한 p형 NiWO_4 산화물의 전도도 향상 / 이재훈¹, 방준호², 박성곤¹, 이용제¹, 이기문*¹ (¹Department of Physics, Kunsan National University, Korea, ²Materials Research Center for Element Strategy, Tokyo Institute of Technology, Japan)

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Optical and electrical properties of Sn-doped ZnO thin films studied with spectroscopic ellipsometry / SO Hyeon Seob, HWANG Sang Bin, JUNG Dae Ho, KO Kun Hee, PARK Sun-A, LEE Hosun* (Department of Applied Physics, Kyung Hee University)

P2-se.012

Effect of growth pressure for zinc tin oxide channel layer on characteristics of thin film transistor / 홍승환, 오규진, 김은규* (한양대학교 물리학과)

P2-se.013

수소 처리된 ZnCoO 의 자기저항과 DOS / 천미연¹, 조용찬², 박철홍³, 정세영⁴. (¹부산대학교 단결정은행 연구소, ²한국표준과학연구원, ³부산대학교 물리교육과, ⁴부산대학교 인지메카트로닉스공학과, ⁵부산대학교 광메카트로닉스공학과)

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Enhanced Performance of Solution-processed Indium-free Metal Oxide Thin Film Transistors Using New Sn Precursor / CHO Soyeon, HWANG Chi-Sun, NAM Sooji* (Information Control Device Research Section Electronics and Telecommunications Research Institute)

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Structural analysis of nonpolar a-plane GaN Films by using high-resolution X-ray diffraction / SEO Yong Gon^{*1}, YOON Hyung-Do¹,

BAIK Kwang Hyeon²(¹Nano Materials & Components Research Center, Korea Electronics Technology Institute, ²School of Materials Science and Engineering, Hongik University)

P2-se.016

Photoluminescence study of Si-doped a-plane GaN film grown on r-plane sapphire substrate / SEO Yong Gon^{*1}, YOON Hyung-Do¹, BAIK Kwang Hyeon²(¹Nano Materials & Components Research Center, Korea Electronics Technology Institute, ²School of Materials Science and Engineering, Hongik University)

P2-se.017

Sputtering growth of VO₂ films at low temperature (150 °C) for applications to flexible smart window / JUNG Daeho, SO Hyeonseob, KO Kunhee, HWANG Sangbin, AHN Jaeseong, LEE Hosun^{*}(Department of Applied Physics Kyung Hee University)

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Synthesis of large grain MoS₂ films by chemical vapor deposition method without seed promoter / PARK Sung Jae, PAK Sang Woo, KIM Eun Kyu^{*}(Quantum-Function Research Laboratory and Department of Physics, Hanyang University)

P2-se.019*

Influences of ambient gas on electrical properties of CVD-grown MoS₂ thin films (w/ and w/o Au nanoparticles) / CHO Yunae¹, SOHN Ahum¹, KIM Sujung¹, KIM Dong-Wook^{*1}, CHO Byungjin², HAHM Myung Gwan³, KIM Dong-Ho²(¹Dept. of Physics, Ewha Womans University, ²Korea Institute of Materials Science (KIMS), ³Dept. of Materials Science & Engineering, Inha University)

P2-se.020*

AuCl₃ 및 은나노선이 복합으로 도핑된 그래핀을 투명 전극으로 사용하여 제작한 Si 기반 태양전지의 특성 연구 / 서상우, 김종민, 이하승, 신동희, 김성, 최석호^{*}(경희대 응용물리학과)

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그래핀/다공성 실리콘 태양전지 특성 연구 / 김주환, 김정현, 장찬욱, 신동희, 김성, 최석호^{*}(경희대 응용물리학과)

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P2-se.023

Heterojunction p-n diodes with atomically sharp interface of n-MoS₂ on p⁺-Si substrate / SONG Da Ye, CHU Dongil, KIM Eun Kyu*
(Department of Physics Hanyang University)

P2-se.024

High yield liquid exfoliated MoS₂ dispersion for thin film transistor / LEE Seung Kyo, CHU Dongil, KIM Eun Kyu* (Department of Physics Hanyang University)

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Electrical transport behavior of bilayer graphene during thermal annealing / PARK Chang-Soo¹, SHON Yoon², KIM Eun Kyu*¹ (¹Department of Physics, Hanyang University, ²Quantum Functional Semiconductor Research Center, Dongguk University)

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Low-dimensional yarn-based hybrid self-powered System by Energy Harvesters/ Supercapacitors for Wearable Devices / 고원배¹, 이충현¹, 최다송¹, 양승모¹, 양정엽², 채성정³, 윤주영³, 홍진표*¹ (¹한양대학교 물리학과, ²군산대학교 물리학과, ³우양신소재)

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F 원소 치환형 도핑을 통한 SnSe₂ 이차원 소재 전도 물성 제어 / 김진태¹, 방준호², 현다슬¹, 이용제¹, 이기문*¹ (¹Department of physics, Kunsan National University, Korea, ²Materials Research Center for Element Strategy, Tokyo Institute of Technology, Japan)

P2-se.028*

Effect of gas flow rate for spinnable CNT forest growth / NAM Deukhyeon, JUNG Moonyoung, AHN Seung-eon* (Korea Polytechnic University)

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Br 도핑을 통한 SnSe₂ 2차원 층상구조 물질의 금속 전도 전이 현상 / 현다슬¹, 방준호², 김진태¹, 이용제¹, 이기문*¹ (¹Department of Physics, Kunsan National University, Korea, ²Materials Research Center for Element Strategy, Tokyo Institute of Technology, Japan)

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Magnetization of a modified magnetic dot / KIM Nammee*, PARK Dae Han, KIM Heesang (Department of physics, Soongsil University, Korea)

Hanging posters: 2016. 10. 20 Thursday 13:00 – 10. 21 Friday 12:00

Presentation : 2016. 10. 20 Thursday 18:00 - 19:30

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Thermodynamics of the two-dimensional Blume-Capel model ; a transfer-matrix approach / JUNG Moonjung, KIM Dong-Hee* (Department of Physics and Photon Science, Gwangju Institute of Science and Technology)

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The percolation property of electrochromic cell in sol-gel process / KIM Sunghee¹, CHOI Dong Soo², KIM Jaehwa^{*3} (¹Department of Physics, Gangneung-Wonju National University, ²Institute of Advanced Materials Technology, Sungkyunkwan University, ³Department of Physics, Gangneung-Wonju National University)

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Ground States of Polymers with Attractive Interactions / 이재환¹, 이주련¹, 김승연^{*2} (¹송실대학교 의생명시스템학부, ²한국교통대학교 교양학부)

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Realization of a Brownian motor through real time feedback control / PANERU Govind¹, LEE Dong Yun^{1, 2}, PAK Hyuk Kyu^{*1, 3} (¹Center for Soft and Living Matter, Institute for Basic Science (IBS), Ulsan 44919, Republic of Korea, ²Department of Structure and Constituents of Matter, University of Barcelona, Barcelona 08028, Spain, ³Department of Physics, Ulsan National Institute of Science and Technology (UNIST), Ulsan 44919, Rep)

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Neural avalanche in complex networks / JUNG Nam, MAENG Seong Eun, LEE Tae Ho, LE Quang Anh, LEE Jae Woo^{*}(Department of Physics, Inha University, 100 Inharo, Namgu, Incheon 22212 South Korea)

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Heavy-tailed distribution on SSH brute-force attack duration / LEE Lae-Kook¹, KIM Sung-Jun¹, PARK Chan Yeol¹, HONG Taeyoung¹, CHAE Huiseung^{*2}(¹Department of Supercomputer Infrastructure, KISTI, ²Department of Computational Science and Engineering, KISTI)

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Crossings and alignments of irreversibly adsorbed Worm-like-chains. / KIM Yunha¹, CHAE Min-Kyung¹, JUNG Youngkyun², JOHNER Albert³, LEE Nam-Kyung^{*1}(¹Department of Physics Sejong University, ²National Institute of Supercomputing and Networking, KISTI, ³Institut Charles Sadron, University of Strasbourg)

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Myung Won Song¹, Jeong Hun Lee², Jong Kyun Moon³, Hyuk Kyu Pak*^{1, 3}
(¹Department of Physics, Ulsan National Institute of Science and Technology, Ulsan 44919, Korea, ²Department of Engineering, University of Waterloo, ON, +1 519 888 4567, Canada, ³Center for Soft and Living Matter, Institute for Basic Science (IBS), Ulsan 44919, Korea)

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Hanging posters: 2016. 10. 20 Thursday 13:00 – 10. 21 Friday 12:00

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**Actual Experiment of Observation of Compass Needle around
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