

한국 물리학회 회보

2013. 10 제31권 제2호

2013년
가을학술논문발표회
및 임시총회

창원컨벤션센터

2013. 10. 30(수) ~ 11. 01(금)

The Korean Physical Society

구두발표논문 시간표

[A1] 한국물리학회 인텔 특별세션

2013년 10월 30일 수요일 15:00 - 17:45

장소: 컨벤션 |

좌장: 윤영귀 중앙대

A1-01 [15:00-15:50]

인텔 소프트웨어를 이용한 과학 소프트웨어 최적화 / 박진우, 홍석륜(세종대학교, 그래핀연구소 & 물리학과)

A1-02 [16:00-16:50]

제온 파이 소프트웨어 프로그래밍 및 관련 툴 소개 / 박준식(SSG, Intel)

A1-03 [17:00-17:50]

인텔 차세대 제온 프로세서 및 제온 파이 기술 소개 / 나승주(APAC, Product Marketing, Intel)

[A2] KIAS 대중강연

2013년 10월 30일 수요일 18:00 - 19:50

장소: 컨벤션 |

좌장: 전응진 KIAS

A2-01 [18:00-18:50]

디지털 다음은? 퀀텀! : 양자컴퓨터와 양자정보의 세계를 들여다 본다 / 김재완(고등과학원)

A2-02 [19:00-19:50]

구글 신은 모든 것을 알고있다! 빅데이터와 복잡계 네트워크 / 정하웅(KAIST)

[A3] Open KIAS 특강

2013년 10월 31일 목요일 11:00 - 12:45

장소: 컨벤션 |

좌장: 박권 KIAS

A3-01 [11:00-11:50]**Confinement Effects on Soft Matter** / KIM Mahn Won(Department of Physics, KAIST)**A3-02 [11:50-12:40]****STRETCHED DNA** / PINCUS P.(Physics and Materials Departments, UCSB)

[A4] 한국물리학회 APCTP 기초강연

2013년 10월 31일 목요일 13:00 - 14:00

장소: 컨벤션 I
좌장: 방 윤 규 전남대

A4-01 [13:00-14:00]

Topological particle in magnets - Skyrmion / NAGAOSA Naoto(RIKEN Center for Emergent Matter Science (CEMS) Department of Applied Physics, The University of Tokyo)

[A5] 정책세션 : 자주국방과 물리학

2013년 10월 31일 목요일 14:30 - 16:40

장소: 컨벤션 I
좌장: 이 재 일 인하대

A5-01 [14:30-14:40]

국방과학연구소(ADD) 소개 / 이현곤(국방과학연구소, ADD 부소장)

A5-02 [14:40-15:10]

국방과학기술 연구개발 동향 / 안창범(국방과학연구소, ADD 신기술본부장)

A5-03 [15:10-15:40]

국방특화연구실 과제 수행의 소개 / 박일홍(성균관대학교)

A5-04 [15:40-16:10]

물리학과 첨단 국방기술, 현실과 전망 그리고 나아갈 길 / 최은미(울산과학기술대학교)

A5-05 [16:10-16:40]

질의/응답

[A6] 한국물리학회 기초강연

2013년 10월 31일 목요일 13:00 - 14:00

장소: 컨벤션 III
좌장: 이 범 훈 서강대

A6-01 [13:00-14:00]

Observation of the Weakest Neutrino Transformation / KIM Soo-Bong(서울대학교, 물리학과)

[A7] 여성세션 : 여성물리학자도 결혼할 수 있나요? - 결혼과 육아에 관한 진실

2013년 10월 31일 목요일 11:30 - 13:00

장소: 601호
좌장: 윤 진 희 인하대

패널리스트 / 정옥희(순천대학교), 이승미(표준연), 김언정(삼성중공업), 정난주(광운대학교), 이금원(고려대학교)

SESSION B

입자물리학과회

B

[BG1] 입자물리학과회 General Session : 장이론

2013년 10월 30일 수요일 13:30 - 14:30

장소: 603호
좌장: 이 원 중 서울대

BG-01 [13:30-13:45]

NPR of Bilinear Operators with Improved Staggered Fermions / KIM Jangho, KIM Jongjeong, LEE Weonjong, YOON Boram¹, SHARPE Stephen²(Seoul National University, Department of Physics and Astronomy. ¹Los Alamos National Lab, Nuclear, Particle, Astrophysics and Cosmology Group(T-2). ²University of Washington, Physics Department)

BG-02 [13:45-14:00]

Supermatrix Wilson loops in ABJM model and AdS/CFT / KIM Nakwoo(Kyung Hee University)

BG-03 [14:00-14:15]

Spectral weight in hyperscaling violation geometry / SEO Yunseok, SIN Sang-Jin, KIM Bom Soo¹(Hanyang University. ¹Telaviv University)

BG-04 [14:15-14:30]

Extracting IR And UV Divergences In Multiloop Diagram By Series Expansion In ϵ / YOON Yeo Woong(KIAS)

[BG2] 입자물리학과회 General Session : 현상론

2013년 10월 30일 수요일 15:00 - 16:45

장소: 603호
좌장: 이 강 영 경상대

BG-06 [15:00-15:15]

Hidden sector dark matter models with Higgs portal / 백승원, 고병원¹, 박완일¹, EIBUN Senaha²(고등과학원, 물리학부/Open-KIAS 센터. ¹고등과학원, 물리학부. ²Nagoya University, Department of Physics)

BG-07 [15:15-15:30]

BSM Contribution to Kaon indirect CP violation / 김종정, 이원종, 백승원, 고병원, 김광우(서울대학교, 물리학과)

BG-08 [15:30-15:45]

Analysis on the Standard Model gauge group in F-theory / CHOI Kang-Sin(Scranton Honors Program, Ewha Womans University)

BG-09 [15:45-16:00]

U(1)_{B-L} mediation for the natural SUSY and the anomalous muon g-2 / 계범석, 허지행(부산대학교 물리학과, ¹UCLA)

BG-10 [16:00-16:30]

Two Higgs Doublet Model for the LHC Higgs Boson Data at $\sqrt{s}=7$ and 8 TeV / LEE Jong-Phil, CHANG Sanghyeon¹, KANG Sin Kyu, LEE Kang Young², PARK Seong Chan³, SONG Jeonghyeon⁴(Seoul Tech. ¹Seoul National University. ²Gyeongsang National University. ³Sungkyunkwan University. ⁴Konkuk University)

BG-11 [16:30-16:45]

Two-Higgs-Doublet Models With Spontaneous Higgs Symmetry Breaking / 유채현, 고병원, OMURA Yuji(¹고등과학원, ²TUM)

[BG3] 입자물리학과회 General Session : LHC

2013년 10월 31일 목요일 09:00 - 10:30

장소: 603호

좌장: 유 인 태 성균관대

BG-12 [09:00-09:15]

Searches for CPT violation in the Top quark sector at the LHC / 양운기(서울대학교 물리학과)

BG-13 [09:15-09:30]

Searches for Heavy Neutrinos at the LHC / ALMOND John, 양운기(서울대학교 물리학과)

BG-14 [09:30-09:45]

Searches for Charged Higgs Bosons at the LHC / YU Geumbong, YANG Un-ki, ALMOND John(서울대학교)

BG-15 [09:45-10:00]

Search for doubly charged Higgs bosons at $\sqrt{s}=8\text{TeV}$ at CMS experiment / LEE Jongseok, CHOI Youngkyu, CHOI Youngil, CHOI Suyong(¹Sungkyunkwan University, Department of Physics. ²Korea University, Department of Physics)

BG-16 [10:00-10:15]

Randall-Sundrum II type Black hole production and decay at the LHC / GOH junghwan, HWANG chanwook, YU intae, HYUN Young-Hwan, KANG Dongwoo, LEE Seunghak, PARK Seong Chan(Sungkyunkwan University)

BG-17 [10:15-10:30]

Search for a vector-like bottom quark partner in same sign dilepton final states / CHOI Young-Kyu, CHO Yong-Jin, CHOI Young-Il(Sungkyunkwan University)

[LG1] 천체물리학과회/입자물리학과회 공동 General Session

2013년 10월 31일 목요일 11:00 - 12:45

장소: 602호

좌장: 박 명 구 경북대

LG-01 [11:00-11:25]

Recent Discoveries of Cosmic Ray Anomalies / SEO Eun-Suk(U. of Maryland)

LG-02 [11:25-11:50]

Gamma-ray Bursts, Missions of Early Universe Probe / PARK II H.(SKKU)

LG-03 [11:50-12:15]

Quasi-local Conserved Charges in a (Covariant) Theory of Gravity / 이상현, KULKARNI Shailesh, 김원태(CQeST, 서강대학교)

LG-04 [12:15-12:30]

Inside and outside of dynamical black-branes in anti de Sitter space / YEOM Dong-han, HANSEN Jakob¹, LEE Bum-Hoon², PARK Chanyong²(Yukawa Institute for Theoretical Physics, Kyoto University. ¹Korean Institute of Science and Technology Information. ²Center for Quantum Spacetime, Sogang University)

LG-05* [12:30-12:45]

Slow-roll inflation with a Gauss-Bonnet term and Planck 2013 / TUMURTUSHAA Gansukh, KOH SEOKTAE¹, LEE Bum-Hoon², LEE Wonwoo³(Department of Physics, Sogang University. ¹Department of Science Education, Jeju National University. ²Department of Physics, Sogang University & Center for Quantum Spacetime. ³Center for Quantum Spacetime, Sogang University)

[BG4] 입자물리학과회 General Session : LHC

2013년 10월 31일 목요일 14:00 - 15:30

장소: 603호

좌장: 김 현 수 전북대

BG-18 [14:00-14:15]

Measurement of Initial Parton Fraction in $t\bar{t}$ Events / HA Seungkyu, CHOI Suyong(Korea University, Department of Physics)

BG-19 [14:15-14:30]

ttbar azimuthal decorrelation at CMS / ROH Youn Jung, GYUN Dooyeon, CHOI Suyong(고려대학교 물리학과)

BG-20 [14:30-14:45]

Preliminary Results of the Measurement of the Transverse Momentum Distribution of W Bosons in pp Collisions at 8 TeV / YUSUPOV Hammid, LEE SangEun, BUTANOV Khakimjan, PARK Sang-il, SON Dongchul, KIM Guinyun(경북대학교 물리학과)

BG-21 [14:45-15:00]

Measurement of the Cross Section Ratio ttbb/ttjj in Pp Collision Energy 8 TeV with the CMS detectors at the LHC / JO Youngkwon, GOH Junghwan¹, KIM Tae Jeong, LEE Byounghoon¹, SONG Sanghyeon², CHOI Suyong(Korea University, Department of Physics. ¹Sungkyunkwan University, Department of Physics. ²Chonnam National University, Department of Physics)

BG-22 [15:00-15:15]

W and Z boson production at CMS / LEE SangEun, SON Dongchul, KIM Guinyun, BUTANOV Khakimjan, YUSUPOV Hammid, PARK Sangil(경북대학교)

BG-23 [15:15-15:30]

The Electron Charge-Asymmetry in pp → W(eν)+X Production at sqrt(s) = 8 TeV at the LHC / NAM Soon-Kwon, CHANG Sunghyun, KIM Jungmin, KIM Taehoon, KIM Youngnam, LEE Sang-eun¹, SON Dongchul¹, KIM Guinyun¹, BUTANOV Khakimjan¹, YUSUPOV Hammid¹, PARK Sang-il¹, TKACZYK Slawomir M², YOO Hwidong³, NAM Soon-kwon(강원대학교, ¹경북대학교, ²Fermilab. ³Purdue University)

[BG5] 입자물리학회 General Session : RENO

2013년 10월 31일 목요일 16:00 – 17:00

장소: 603호

좌장: 박명렬 동신대

BG-24 [16:00-16:30]

New result of neutrino mixing angle theta_13 from RENO / 서선희, 김우영¹, 체바토로프 세르게이², 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 김상용⁸, 김수봉⁸, 박정식⁸, 서현관⁸, 이동하⁸, 이순규⁸, 최선희⁸, 양장환⁸, 유인태⁸, 최영일⁸, 김영덕⁹, 마경주⁹, 전은주⁹, 김바로¹⁰, 박령균¹⁰, 김재률¹⁰, 소선행¹⁰, 송숙형¹⁰, 신창동¹⁰, 여인성¹⁰, 임인택¹⁰, 주경광¹⁰, 김현수¹¹, 김시연¹², 고영주¹²(서울대 물리학과. ¹경북대 물리학과. ²경상대 물리학과. ³광주과학기술원. ⁴동신대 물리학과. ⁵부산대 물리학과. ⁶서경대 물리학과. ⁷서영대 물리학과. ⁸성균관대 물리학과. ⁹세종대 물리학과. ¹⁰전남대 물리학과. ¹¹전북대 물리학과. ¹²중앙대 물리학과)

BG-25* [16:30-16:45]

Improvement of RENO theta_13 Systematic Error / 김우영, 체바토로프 세르게이, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 김상용⁸, 김수봉⁸, 박정식⁸, 서선희⁸, 서현관⁸, 이동하⁸, 이순규⁸, 최선희⁸, 최원국⁸, 양장환⁸, 유인태⁸, 최영일⁸, 김영덕⁹, 마경주⁹, 전은주⁹, 김바로¹⁰, 박령균¹⁰, 김재률¹⁰, 소선행¹⁰, 송숙형¹⁰, 신창동¹⁰, 여인성¹⁰, 임인택¹⁰, 주경광¹⁰, 김현수¹¹, 김시연¹², 고영주¹²(경북대학교. ¹경상대학교. ²광주과학기술원. ³동신대학교. ⁴부산대학교. ⁵서경대학교. ⁶서영대학교. ⁷서울대학교. ⁸성균관대학교. ⁹세종대학교. ¹⁰전남대학교. ¹¹전북대학교. ¹²중앙대학교)

BG-26 [16:45-17:00]

Improved reactor neutrino flux expectation and comparison with RENO data / 서현관, 김상용, 김수봉, 박정식, 서선희, 이동하, 이순규, 최선희, 최원국, 김우영¹, 세르게이 체바토로프¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 양장환⁸, 유인태⁸, 최영일⁸, 김영덕⁹, 마경주⁹, 전은주⁹, 김바로¹⁰, 박령균¹⁰, 김재률¹⁰, 소선행¹⁰, 송숙형¹⁰, 신창동¹⁰, 여인성¹⁰, 임인택¹⁰, 주경광¹⁰, 김현수¹¹, 김시연¹², 고영주¹²(서울대학교. ¹경북대학교. ²경상대학교. ³광주과학기술원. ⁴동신대학교. ⁵부산대학교. ⁶서경대학교. ⁷서영대학교. ⁸성균관대학교. ⁹세종대학교. ¹⁰전남대학교. ¹¹전북대학교. ¹²중앙대학교)

[BG6] 입자물리학회 General Session : 기타실험

2013년 11월 1일 금요일 09:00 – 10:30

장소: 603호

좌장: 이현수 이화여대

BG-27 [09:00-09:15]

Measurements of the electron and positron spectra using AMS-02 detector / SON Dongchul, KIM Kyung Sook, JANG Woo Young, HUH Chang Ki, SHARMA Neelesh, KIM Gui-Nyun, CHAE Min Jung¹, YANG Jongmann¹, LIM Sooil¹(Kyungpook National University. ¹Ehwa Womans University)

BG-28 [09:15-09:30]

Study of the Primary Cosmic Ray Proton and Helium Flux with AMS02 Experiment / HUH chang gi, SON Dongchul, KIM Kyung Sook, JANG Woo Young, SHARMA Neelesh, KIM Guinyun, CHAE Min Jung¹, YANG Jongmann¹, LIM Sooil¹(Kyungpook National University. ¹Ehwa Womans University)

BG-29 [09:30-09:45]

A Search for B^+ to l^+ X with Hadronic Tagging Method at Belle Experiment / KWON YOUNGJOON, PARK CHANSEOK(Yonsei University)

BG-30 [09:45-10:00]

Search for isospin partner of the D_s0+ / CHOI Sookyoung, OLSEN Stephen L¹(경상대학교. ¹서울대학교)

BG-31* [10:00-10:15]

Search for Chaged Massive Long-lived Particles at $\sqrt{s}=1.96$

TeV / 조성웅(고려대학교 물리학과, D0 Collaboration)

BG-32 [10:15-10:30]

The 3rd Tau Neutrino Event in the OPERA Experiment / YOON C.S., KIM J.H., PARK I.G., KIM S.H.¹, PARK B.D.²(GNU. ¹KNU. ²Samsung Changwon Hospital, SKKU)

[BG7] 입자물리학회 General Session : 검출기

2013년 11월 1일 금요일 11:00 - 12:30

장소: 603호

좌장: 우 종 관 제주대

BG-33 [11:00-11:15]

Study of rate capability of HPL multigap detector for LHC experiments / 박성근, 정민수, 이경세(고려대학교)

BG-34 [11:15-11:30]

GEM Software in CMS / 이상훈, 박인규, 류민상, 김지현, 최민규, 류건모, 이장배(서울시립대학교 물리학과)

BG-35 [11:30-11:45]

RPCMuon performance in CMS experiment / GOH Junghwan, KIM Minsuk, KWON Eunhyang, SEO Jiwoong, YU intae(SungKyunKwan University)

BG-36 [11:45-12:00]

The Pileup Correction Study for W Charge Asymmetry Electron Channel at $\sqrt{s} = 8$ TeV / NAM Soon-kwon, CHANG Sunghyun, KIM Youngnam, KIM Taehoon, KIM Jungmin, LEE Sang-eun¹, BUTANOV Khakimjan¹, YUSUPOV Hammid¹, PARK Sang-il¹, SON Dongchul¹, KIM Guinyun¹(강원대학교, ¹경북대학교)

BG-37 [12:00-12:15]

The Electron Efficiency Sudy for W Charge Asymmetry Electron Channel at $\sqrt{s} = 8$ TeV / NAM Soon-kwon, CHANG Sunghyun, KIM Taehoon, KIM Jungmin, KIM Youngnam, LEE Sang-eun, BUTANOV Khakimjan¹, YUSUPOV Hammid¹, PARK Sang-il¹, SON Dongchul¹, KIM Guinyun¹(강원대학교, ¹경북대학교)

BG-38 [12:15-12:30]

플라스틱 섬광검출기에서 전기장에 따른 신호 PSD분석 / 나실인, 우종관, 김용주, 고재우(제주대학교 물리학과, ¹제주대학교 기초과학연구소, 물리학과)

[BG8] 입자물리학회 General Session : 미래실험

2013년 11월 1일 금요일 13:00 - 14:45

장소: 603호

좌장: 원 은 일 고려대

BG-39 [13:00-13:15]

Current Status of the KOTO Experiment at J-PARC / 이효상, 안정근, 김은주¹, 임계엽², 우종관³, for the KOTO collaboration(부산대학교, 물리학과, ¹전북대학교, 과학교육학부, ²KEK, ³제주대학교, 물리학과)

BG-40 [13:15-13:30]

A muon facility at RAON (라온에서의 뮤온 시설) / 원은일(고려대학교 물리학과)

BG-41 [13:30-13:45]

600MeV 운동에너지를 갖는 프로톤으로 부터 뮤온을 얻어내는 뮤온빔라인의 설계 / 박정원(고려대학교 일반대학원 물리학과)

BG-42* [13:45-14:00]

Pulse Shape Discrimination with a CaMoO_4 Crystal at Low Temperatures / 김건보, 김용함¹, 윤원식¹, 이민규¹, 이주희¹, 김선기², 김영덕², 소중호², 이해진², 최선호³, 김홍주⁴, 이주영⁴, VLADISLAV Kobychyev⁴, KORNOUKHOV Vasily⁵, DANEVICH Fedor⁶, FLEISCHMANN Andreas⁷(서울대학교, 기초과학연구원, ¹한국표준과학연구원, ²기초과학연구원, ³서울대학교, ⁴경북대학교, ⁵Institute for Theoretical and Experimental Physics, Russia, ⁶Institute for Nuclear Research, Ukraine, ⁷Heidelberg University, Germany)

BG-43 [14:00-14:15]

KIMS-Nal Project at CUNPA / KIM Nam Young, KIM Yeongduk, KIM Kyungwon¹, LEE Hyun SU², KANG W. G.(Institute for Basic Science, ¹Seoul National University, ²Ehwa University)

BG-44 [14:15-14:30]

Study of the Detector Responses of CsI(Tl) Crystal for Dark Matter Search / 주한울, 김경원, 김봉호, 김선기, 김승천, 명성숙, 방형찬, 이재금, 최선호, OLSEN S.L., 김홍주¹, 소중호¹, 이현수², 한인식², Li Jin³, YUE Q.³, Li Y.J.³, 강운구⁴, 김건보⁴, 최정훈⁴, Li Jin⁴, 김영덕⁴, 이주희⁴, 김용함⁵, DOUGLAS Leonard⁶(서울대학교 물리천문학부, ¹경북대학교 물리학과, ²이화여자대학교, ³Tsinghua University, ⁴기초과학연구원, ⁵한국표준연구원, ⁶서울시립대)

SESSION C

원자핵물리학과회

[CG1] 원자핵물리학과회 General Session

2013년 10월 30일 수요일 13:00 - 14:30

장소: 605호

좌장: 남 승 일 부경대

CG-01* [13:00-13:15]

PHENIX Run13 Local Polarimetry 분석 / 김민정(서울대학교 물리천문학부)

CG-02 [13:15-13:30]

Analysis Progress of Neutral Pion Yield as a Probe of Gluon Contribution to the Proton Spin at BNL RHIC PHENIX / 윤인석, KIYOSHI Tanida(서울대학교 물리천문학부)

CG-03* [13:30-13:45]

Introduction and Status of W physics in PHENIX Muon Arms / 김총 (Korea University. RIKEN)

CG-04 [13:45-14:00]

Sea Quark Polarization Measurement via W-boson to Muon Decays at RHIC-PHENIX / 박상화(Seoul National University, RIKEN, for the PHENIX collaboration)

CG-05 [14:00-14:15]

Hadron Physics With Supercomputing / 류휘영(한국과학기술정보연구원)

CG-06 [14:15-14:30]

Renormalization group analysis of the Born expansion / ANDO Shung-Ichi(Daegu University, Department of Physics Education)

[CP1] 원자핵물리학과회 Pioneering Symposium : 고에너지 중이온 물리학의 새로운 연구 동향

2013년 10월 30일 수요일 15:00 - 16:40

장소: 605호

* Session in English

좌장: 홍 병 식 고려대

CP-01 [15:00-15:25]

Theoretical perspective of heavy ion physics / HIRANO Tetsufumi(Sophia University)

CP-02 [15:25-15:50]

Potentials for heavy quark system in quark-gluon plasma / LEE Su Houn(Seoul National University)

CP-03 [15:50-16:15]

Probing the Hot and Dense QCD medium with Hard Probes at RHIC and LHC / GUNJI Taku(Center for Nuclear Study, the University of Tokyo)

CP-04 [16:15-16:40]

Overview of hard scattering results from Heavy ion collision experiments using CMS detector / KIM Yongsun(Korea University)

[CG2] 원자핵물리학과회 General Session

2013년 10월 30일 수요일 17:00 - 17:45

장소: 605호

좌장: 채 경 욱 성균관대

CG-07 [17:00-17:15]

Study on the production of the new neutron-rich Zn, Sn, Te, and Xe isotopes / 문명환, 오용석, 김영만, N. V. Antonenko(경북대학교 물리학과 & 기초과학연구원, ¹경북대학교 물리학과, ²기초과학연구원, ³Joint Institute for Nuclear Research)

CG-08 [17:15-17:30]

Neutron Capture Cross Sections of ¹⁵¹, ¹⁵³Eu Using a pair of C₆D₆ Detectors / LEE Jaehong, HORI Jun-ichi, NAKAJIMA Ken, LEE Samyol(Kyoto University, Nuclear Engineering, ¹Dongseo University, Department of Radiological Science)

CG-09 [17:30-17:45]

Measurement of Isomeric Yield Ratios for ^{na1}Nd(γ,xn) ^{139m,g141m,g}Nd reaction with Bremsstrahlung Energies of 45-60 MeV / YANG Sung-Chul, ZAMAN Muhammad¹, KIM Guinyun¹, SONG Tae-Yung², LEE Young-Ouk³, NAIK Haladhara³, SHIN Sung-Gyun⁴, CHO Moo-Hyun⁴(Department of Physics, Kyungpook National University; Nuclear Data Center, Korea Atomic Energy Research Institute. ¹Department of Physics, Kyungpook National University. ²Nuclear Data Center, Korea Atomic Energy Research Institute. ³Radiochemistry Division, Bhabha Atomic Research Centre, India. ⁴Division of Advanced Nuclear Engineering, Pohang University of Science and Technology)

[CG3] 원자핵물리학회 General Session : 핵구조

2013년 10월 31일 목요일 09:00 - 10:45

장소: 605호

좌장: 권영관 IBS

CG-10 [09:00-09:15]

Nuclear Structure and Decay Data Evaluation / LEE Jeong-Yeon, TULI Jagdish¹, KIM Yeongduk, GIL Choongsup², LEE Youngouk²(Institute for Basic Science. ¹Brookhaven National Laboratory. ²Korea Atomic Energy Research Institute)

CG-11 [09:15-09:30]

Effects of entrance channels in the fusion reactions forming ²²⁰Th / KIM Kyungil, KIM Youngman, NASIROV Avazbek¹(Rare Isotope Science Project, Institute for Basic Science, Daejeon 305-811, Korea. ¹Joint Institute for Nuclear Research, Joliot-Curie 6, 141980 Dubna, Russia)

CG-12 [09:30-09:45]

¹⁹F(a,p)²²Ne reaction measurement in inverse kinematics with an extended gas target / CHAE Kyungyuk, BARDAYAN D.W.¹, NESARAJA C.D.¹, SMITH M.S.¹, AHN S.H.², AYRES A.³, BEY A.³, JONES K.L.², PITTMAN S.T.², KOZUB R.L.³, MATOS M.⁴, MOAZEN B.H.⁴, PETERS W.A.⁵(Physics Department, Sungkyunkwan University. ¹Physics Division, Oak Ridge National Laboratory. ²Physics Department, University of Tennessee. ³Physics Department, TN. Tech. University. ⁴Physics Department, LSU. ⁵ORAU)

CG-13 [09:45-10:00]

Independent isomeric yield ratio of ^{89m,g}Zr from ^{nat}Zr(γ, xn) reaction at the end-point bremsstrahlung energies of 16, 50, 60 and 70 MeV / H. Naik, G. N. Kim¹, R. Schwengner², K. Kim¹, M. W. Lee³, M. Zaman¹, R. Massavczyh², R. John², A. Junghans², A. Goswami, M. -H. Cho¹(Radiochemistry Division, Bhabha Atomic Research Centre, Mumbai - 400 085, India. ¹Department of Physics, Kyungpook National University, Daegu 702-701, Republic of Korea. ²Institut of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Dresden, Germany. ³Medical Radiological Physics Laboratory, Research Center, DIRAMS, Busan, Korea)

CG-14 [10:00-10:15]

Measurement of photo neutron reaction cross-sections of ⁸⁹Y with end-point bremsstrahlung energies of 45 and 55 MeV / M. Zaman, G. N. Kim, H. Naik¹, K. Kim, S. G. Shin², Y. Gey², M. -H. Cho²(Department of Physics, Kyungpook National University, Daegu 702-701, Republic of Korea. ¹Radiochemistry Division, Bhabha Atomic Research Centre, Mumbai 400085, India. ²Division of Advanced Nuclear Engineering, Pohang University of Science and Technology, Pohang 790-784, Republic of Korea)

CG-15 [10:15-10:30]

Neutron occupancy of 0d_{5/2} orbital in the neutron drip-line nucleus ²⁴O / 추경호, SATOU Yoshiteru¹, R405N collaboration²(기초 과학 연구원, 중이온 가속기 사업단. ¹서울 대학교, 물리 천문학부. ²R405N collaboration)

CG-16 [10:30-10:45]

Experimental study to measure the excitation functions for proton induced nuclear reactions on ^{nat}Cu with in energy range 16 MeV to 45 MeV / M. Shahid, G. N. Kim, K. Kim, H. Naik¹(Department of Physics, Kyungpook National University, Daegu 702-701, Republic of Korea. ¹Radiochemistry Division, Bhabha Atomic Research Centre, Mumbai - 400 085, India)

[CG4] 원자핵물리학회 General Session : 하드론

2013년 10월 31일 목요일 11:00 - 12:30

장소: 605호

좌장: 안정근 부산대

CG-17 [11:00-11:15]

Double Lambda H-4 in Halo Effective Field Theory / ANDO Shung-Ichi, YANG Ghil-Seok¹, OH Yongseok¹(Daegu University, Department of Physics Education. ¹Kyungpook National University, Department of Physics)

CG-18 [11:15-11:30]

Single and Double Spin Asymmetries from Deeply Virtual Exclusive pi0 Production on a Longitudinally Polarized Proton with CLAS / 김우영, KIM Andrey, BURKERT Volker¹(경북대학교. ¹Jefferson Lab)

CG-19* [11:30-11:45]

Status of E13 1st Part at J-PARC / YANG Seongbae, J-PARC E13 Collaboration¹(Seoul National University, Department of Physics and Astronomy. ¹J-PARC E13 Collaboration)

CG-20 [11:45-12:00]

Omega Baryon Photoproduction In An Effective Lagrangian Approach / 류휘영, 김현철¹, 오용석², HOSAKA Atushi³, NAKAYAMA Kanzo⁴, HABERZETTL Haelmut⁵(한국과학기술정보연구원. ¹인하대학교. ²경북대학교. ³오사카대학교. ⁴University of Georgia, USA. ⁵George Washington University, USA)

CG-21 [12:00-12:15]

Development of KURAMA spectrometer at J-PARC K1.8 beamline / HWANG Sanghoon, AHN Jung Keun¹, IMAI Kenichi², E03/07/42 Collaboration³(Japan Atomic Energy Agency, Advanced Science Research Center. ¹Pusan National University, Department of Physics. ²Japan Atomic Energy Agency, Advanced Science Research Center. ³E03/07/42 collaboration)

CG-22 [12:15-12:30]

Analysis of the in-medium modified nucleon structure in a π - ρ - ω meson model / 정주현, 김현철, YAKHSHIEV Ulugbek(인하대학교)

[CG5] 원자핵물리학회 General Session

2013년 10월 31일 목요일 14:00 - 15:30

장소: 605호

좌장: 타 니 다 서울대

CG-23 [14:00-14:15]

Design study of Isotope Separation On-Line (ISOL) target system for Rare Isotope Science Project in Korea / 추경호, 장도윤¹, 우형주, 강병휘, 김기동, 황원주, 서창석, 김용균(기초과학연구원, 중이온가속기구조 사업단, ¹한양 대학교, 원자력 공학과)

CG-24 [14:15-14:30]

Development of the Time Projection Chamber for the H-dibaryon Search (E42) at J-PARC / 이효상, 안정근, for the E42 collaboration(부산 대학교, 물리학과)

CG-25 [14:30-14:45]

Development of HypTPC for E42 experiment / HWANG Sanghoon, SAKO Hirouki, IMAI Kenichi, AHN Jung Keun¹, E42 Collaboration²(Japan Atomic Energy Agency, Advanced Science Research Center. ¹Pusan National University, Department of Physics. ²E42 Collaboration)

CG-26* [14:45-15:00]

Development of the Beam Aerogel Cherenkov Counter for the J-PARC E42 Experiment / 박세화, 이효상, 안정근, 황상훈(부산대학교, 물리학과, ¹JAEA)

CG-27 [15:00-15:15]

Development of the Forward Aerogel Counter for E42 experiment / NI Andrey, 안정근, 이효상, IMAI Kenichi¹, SAKO Hiroyuki¹, SAKO Hiroyuki¹(부산대학교, ¹JAEA)

CG-28* [15:15-15:30]

Current Status of the Neutron Detector Prototypes for LAMPS at the RAON Facility / MULILO Benard (MSc. Std), LEE KiSoo (PhD Std), LEE Kyongsei (Dr.)¹, HONG Byungsik (Prof.)¹(Korea University, Physics Dept., Nuclear Physics Lab., ¹Korea University, Physics Dept.)

[CG6] 원자핵물리학회 General Session

2013년 10월 31일 목요일 16:00 - 16:30

장소: 605호

좌장: 김 경 식 한국항공대

CG-29(초) [16:00-16:30]

QCD magnetic susceptibility at finite temperature beyond the chiral limit / 남승일(부경대학교 물리학과)

원자핵물리학회총회

2013년 10월 31일 목요일 16:30 - 17:00

장소: 605호

좌장: 유 병 길 한국항공대

[CG7] 원자핵물리학회 General Session

2013년 11월 1일 금요일 10:00 - 10:45

장소: 605호

좌장: 권 민 정 인하대

CG-30* [10:00-10:15]

Heavy quark production at forward rapidity in d+Au collisions at $\sqrt{s} = 200$ GeV / 임상훈, 강주환, 권영일, 도재현, 문태봉, 김현중(연세대학교, 물리학과)

CG-31* [10:15-10:30]

Multiplicity dependence of two particle $\Delta\phi$, $\Delta\eta$ correlation in proton-proton collisions at 7TeV center-of-mass energy with ALICE at LHC / BHOM Jihyun(University of Tsukuba)

CG-32* [10:30-10:45]

Characterization of Pixel Chips for ALICE-ITS Upgrade Project / KIM Jiyoung, YI JunGyu, YOO In-Kwon(Dep. of Physics, Pusan National University, On behalf of the ALICE collaboration)

[CP2] 원자핵물리학회 Pioneer Symposium : 고에너지 중이온 물리학의 새로운 연구 동향

2013년 11월 1일 금요일 11:00 - 12:20

장소: 605호

* Session in English

좌장: 유 인 권 부산대

CP-05(초) [11:00-11:30]

Recent Results from ALIC / KWEON Min Jung(Inha University)

CP-06 [11:30-11:55]

Soft physics at RHIC / MASUI Hiroshi(Tsukuba University)

CP-07 [11:55-12:20]

Recent Results from RHIC / KANG Ju Hwan(Yonsei University)

SESSION D

응집물질물리학분과회

응집물질물리학분과회 운영위원회

2013년 10월 30일 수요일 12:30 - 13:00

장소: 컨벤션 II

[DG1] 응집물질물리학분과회 General Session : 강상관계

2013년 10월 30일 수요일 13:00 - 14:52

장소: 컨벤션 II

좌장: 조 연 정 경북대

DG-01 [13:00-13:14]

Dynamical mean field theory for a doped Mott insulator - the onset of pseudo-gap phase near the critical doping / LEE, Hyun Jung, PARK Kwon(School of Physics, Korea Institute for Advanced Study, Seoul, Korea)

DG-02 [13:14-13:28]

Doniach Diagram in Disordered Electrons Systems / HYUNYONG LEE, STEFAN KETTEMANN(Division of Advanced Materials Science, POSTECH)

DG-03 [13:28-13:42]

Orbital ordering and ferromagnetism induced by strain in the $\text{LaTiO}_3/\text{LaAlO}_3$ superlattice / LEE Alex Taekyung, HAN Myung Joon(KAIST 물리학과)

DG-04 [13:42-13:56]

Critical behavior of thermoelectric properties of a VO_2 film / KANG Manil, KIM Sok Won, RYU Ji-Wook¹(University of Ulsan. ¹Kongju National University)

DG-05 [13:56-14:10]

Fitting of Diverging Thermoelectric Power in a 2D Electron System of Si-MOSFETs / KIM Hyun-Tak(ETRI, MIT Creative research Center)

DG-06 [14:10-14:24]

Emergent antiferromagnetism with frustration in the lowest Landau level / 임준원, ARCHER Alexander¹, JAIN Jainendra¹, 박권(고등과학원. ¹Pennsylvania State University)

DG-07 [14:24-14:38]

Quantum Phase Transition in a ^4He Layer on α -graphyne: Pseudo-spin Symmetry Breaking under a Particle-induced

Pseudo-Magnetic Field / KWON Yongkyung, SHIN Hyeondeok, LEE Hoonkyung(건국대학교, 물리학과)

DG-08 [14:38-14:52]

SrIrO_3 thin films: impact of growth temperature / KUO Cheng-Tai, KIM Minu, YOO Hyang Keun, SHIN Soobin, HONG Kun-Pyo, KIM Yong Su, KIM Hyeong Do, NOH Tae Won(IFS-CCES)

[DG2] 응집물질물리학분과회 General Session : 강상관계

2013년 10월 30일 수요일 15:05 - 17:11

장소: 컨벤션 II

좌장: 송 종 현 충남대

DG-09* [15:05-15:19]

Interplay of various order parameters in epitaxial SrIrO_3 thin films / BISWAS Abhijit, KIM Ki-Seok, JEONG Yoon Hee(Postech, Department of Physics)

DG-10* [15:19-15:33]

Electric-control of Magnetic State in La-doped BiFeO_3 / YANG Chan-Ho, JANG Byung-Kweon, LEE Jun-Sik¹, LEE Jin Hong, KIM Kwang-Eun, JUNG Min Hwa², KOO Tae Yeong³, JEONG Yoon-Hee², OHLDA Hendrik¹(Department of Physics, KAIST, Daejeon 305-701, Korea. ¹Stanford Synchrotron Radiation Lightsource, SLAC National Accelerator Laboratory, Menlo Park, California 94025, USA. ²Department of Physics, POSTECH, Pohang 790-784, Korea. ³Pohang Accelerator Laboratory, POSTECH, Pohang 790-784, Korea)

DG-11* [15:33-15:47]

Structural and electrical properties of VO_2 films in metal-insulator transition / JIN Zhenlan, PARK Changin, HWANG Inhui, HAN S.-W.(Department of Physics Education and Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Republic of Korea)

DG-12* [15:47-16:01]

Spin Waves with Dzyaloshinskii-Moriya Interaction and Single-ion Anisotropy in Multiferroic BiFeO_3 / JEONG Jaehong, BOURGES Philippe¹, PETIT Sylvain¹, FURUKAWA Shunsuke², LE Manh Duc, KIM Shin-Ae³, LEE Seongsu³, CHEONG S-W.⁴, PARK Je-Geun(IFS-Research Center for Correlated Electron Systems, Seoul National University. ¹Laboratoire Léon Brillouin, CEA-CNRS, CEA-Saclay. ²Department of Physics, Graduate School of Science, The University of Tokyo. ³Neutron Science Division, Korea Atomic Energy Research Institute. ⁴Rutgers Center for Emergent Materials and Department of Physics and Astronomy, Rutgers University)

DG-13* [16:01-16:15]
Soliton Defects in One-dimensional Topological Three-band Hamiltonian / 한정훈, 강경태, 고경춘(성균관대학교, 물리학과)

DG-14* [16:15-16:29]
Orbital Dzyaloshinskii-Moriya Exchange Interaction / KIM Panjin, HAN Jung Hoon(Sungkyunkwan University)

DG-15* [16:29-16:43]
Observation of Geometric Hall Effect in an Atomic Superfluid / 최재윤, 강세지, 서상원, 권우진, 신용일(Seoul National University, Department of physics and astronomy)

DG-16 [16:43-16:57]
Electronic and Magnetic Structures of Ba_2IrO_4 / KO Eunjung, CHOI Hyoung Joon¹(Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University, Seoul, 120-749, Republic of Korea. ¹Department of Physics and IPAP, Yonsei University, Seoul, 120-749, Republic of Korea)

DG-17 [16:57-17:11]
Effect of Charge Doping on $[\text{LaNiO}_3]_x/[\text{SrTiO}_3]_y$ Superlattices / KIM HEUNG-SIK, HAN Myung Joon(한국과학기술원, 물리학과)

[DT1] 응집물질물리학과회 Tutorial

2013년 10월 30일 수요일 17:30 - 19:10

장소: 컨벤션 II
좌장: 유 재 준 서울대

DT-01(초) [17:30-19:10]
스핀-궤도 결합이 지배하는 응집 물리 현상 / 한정훈(성균관대학교 물리학과)

[DT2] 응집물질물리학과회 Tutorial

2013년 10월 30일 수요일 19:30 - 21:00

장소: 컨벤션 II
좌장: 김 창 영 연세대

DT-02(초) [19:30-21:10]
응집물질계의 스핀-궤도 물리: 실험 및 전망 / 도용주(고려대학교, 응용물리학과)

[DG3] 응집물질물리학과회 General Session : 표면/계면

2013년 10월 30일 수요일 13:00 - 14:45

장소: 컨벤션 III
좌장: 서 정 필 DGIST

DG-18(초) [13:00-13:30]
Thermoelectric imaging of epitaxial graphene at the atomic

scale / 여호기(한국표준과학연구원)

DG-19* [13:30-13:45]
Theory and Simulation of Scanning Thermoelectric Microscopy with Atomic Resolution / LEE Eui-Sup, CHO Sanghee¹, LYE HO-KI¹, KIM Yong-Hyun(Graduated School of Nanoscience and Technology, KAIST. ¹Korea Research Institute of Standards and Science)

DG-20(초) [13:45-14:15]
SPM Study of Graphene Directly CVD-Grown on h-BN Film / 송영재(성균관대학교, 물리학과/성균나노과학기술원)

DG-21* [14:15-14:30]
Hybridized Electronic Structure of 2D and 3D Topological Insulators; Bi Bilayer on Bi_2Te_3 / SHIN woo jong, KIM sung hwan, JIN Kyeong hwan¹, KAZUYUKI Sakamoto², JI seung hoon¹, YEOM han woong(Center for Artificial Low Dimensional Electronic Systems, IBS and Department of Physics, POSTECH. ¹Department of Physics, POSTECH. ²Department of Physics, Chiba university)

DG-22 [14:30-14:45]
Identifying Defects in Bi_2Se_3 Topological Insulator from Scanning Tunneling Microscopy and First Principles / JEON Jeong Heum, PARK Joon-Suh¹, KIM Howon, JANG Won-Jun, HAN Jinhee², LEE Hyungjun², CHOI Hyoung Joon², KAHNG Se-Jong(Department of Physics, Korea University. ¹Department of Physics, Yonsei University and Center for Opto-Electronic Convergence Systems, KIST. ²Department of Physics and IPAP, Yonsei University)

[DF1] 응집물질물리학과회 Focus Session : 표면/계면

2013년 10월 30일 수요일 15:00 - 17:20

장소: 컨벤션 III
좌장: 김 태 환 포스텍

DF-01(초) [15:00-15:25]
Design and construction of a 10 mK/15.5 T SPM System / SUH Hwansoo, JEON Insu, KWON Hyeokshin, KIM Hyo Won, KO Wonhee, OH Youngtek, KU JiYeon, HWANG Sung Woo(Samsung Advanced Institute of Technology)

DF-02* [15:25-15:40]
Oxidation study of Pt_3Ni (111) with Ambient Pressure XPS / 문봉진, 김보만¹, 이형철, 정창길¹, HIROSHI Kondoh², RYO Toyoshima², TORU Shimada³, MAO Baohua⁴, LIU Zhi⁴, 이한갈⁵, LI Weixue⁶(광주과학기술원, 물리광 과학과. ¹한양대학교, 응용물리학과. ²Keio University. ³Hirosaki University. ⁴Advanced Light Source. ⁵숙명여자대학교, 화학과. ⁶Dalian Institute of Chemical Physics)

DF-03* [15:40-15:55]

Charge Modulation and Electronic Structure of IrTe₂ at Low Temperature / KIM Hyo Sung, KIM Tae-Hwan, YANG Junje¹, CHEONG Sang-Wook², YEOM Han Woong(Center for Artificial Low Dimensional Electronic Systems, IBS and Department of Physics, POSTECH. ¹Laboratory for Pohang Emergent Materials, POSTECH and Department of Physics, POSTECH. ²Rutgers Center for Emergent Materials and Department of Physics and Astronomy and Laboratory for Pohang Emergent Materials, POSTECH and Department of Physics, POSTECH)

DF-04 [15:55-16:10]

정전기 부양기술을 이용한 액체-고체 계면에너지와 액체의 단거리 질서와의 관계 / 이근우, 강동희, 전상호, 이병찬(한국표준과학연구원. ¹경희대학교)

DF-05(초) [16:10-16:35]

Quantitative Insights into Nanomagnetism with a Subnanometer Resolution by Spin-polarized Scanning Tunneling Spectroscopy / PHARK Soo-hyon, FISCHER Jeison A., CORBETTA Marco, SANDER Dirk, KIRSCHNER Jurgen(Max-Planck-Institut für Mikrostrukturphysik)

DF-06 [16:35-16:50]

Spectroscopic Examinations of the In/Si(111)-2x2 Structural Model: Density-Functional Calculations / KANG Myung Ho, KWON Se Gab(포스텍, 물리학과)

DF-07 [16:50-17:05]

XES and XAS Studies of Chemical Bonding and Reaction at Surfaces / CHO Sang Wan, OGASAWARA Hirohito¹, KAYA Sarp¹, FRIEBEL Daniel¹, NILSSON Anders¹(Yonsei University, Physics. ¹SLAC National Accelerator Laboratory)

DF-08 [17:05-17:20]

두께에 따른 펜터신 박막의 성장 모형과 결정상 변화 / 전동렬, 박혜림(서울대학교 과학교육과)

[DG4] 응집물질물리학회 General Session : 바이오/무른/유기 물질

2013년 10월 30일 수요일 13:00 - 14:45

장소: 302호

좌장: 홍 성 철 서울대

DG-23 [13:00-13:20]

Threading Immobilized DNA through a Nanopore with a SPM Tip / HYUN Changbae, LI Jiali¹, KIM Kwang S.(Department of Chemistry, Pohang University of Science and Technology, Korea. ¹Department of Physics, University

of Arkansas, Fayetteville AR USA)

DG-24* [13:20-13:40]

Investigating the pathogenesis of alpha-synuclein on membrane fusion using alternating laser excitation / 최봉규, 최말기¹, 김재열², 양유수³, YING Lai⁴, 권대혁⁵, 신연균⁶, 이남기⁷(School of interdisciplinary bioscience and bioengineering, POSTECH, Pohang 790-874, South Korea. ¹Department of Biochemistry and Molecular Biology, Yeungnam University Medical College, Daegu705-717, South Korea. ²Department of Physics, POSTECH, Pohang 790-874, South Korea. ³Biomedical Research Institute, Korea Institute of Science and Technology, Seoul, Korea. ⁴Department of Biochemistry, Biophysics & Molecular Biology, Iowa State University, Ames, Iowa 50011, USA. ⁵Department of Genetic Engineering, College of Biotechnology and Bioengineering, Sungkyunkwan University, Suwon 440-746, South Korea. ⁶Biomedical Research Institute, Korea Institute of Science and Technology, Seoul, Korea and Department of Biochemistry, Biophysics & Molecular Biology, Iowa State University, Ames, Iowa 50011, USA. ⁷School of interdisciplinary bioscience and bioengineering and Department of Physics, POSTECH, Pohang 790-874, South Korea)

DG-25* [13:40-14:00]

Advanced single-molecule co-IP analysis for very weak protein-protein interactions / YOO Janghyun(KAIST)

DG-26* [14:00-14:15]

Characterization of the mechanical properties of Hoogsteen base pairs using the hybrid-technique of smFRET and magnetic tweezers / HONG Seok-Cheol, LEE ILBUEM, JUNG HAE JUN(Korea University, Department of physics)

DG-27* [14:15-14:30]

Dynamic Folding Energy Landscape Modulation Drives the Rapid Assembly of DNA nanostructure / BAE Wooli, KIM Kipom, HYEON Changbong¹, MIN Duyoung, RYU Je-Kyung, YOON Tae-Young(KAIST. ¹KIAS)

DG-28* [14:30-14:45]

Single-molecule fluorescence study on the bending of short double-stranded DNA / 김철희, 이오철, 김재열, 성우경, 이남기(POSTECH, 물리학과)

[DG5] 응집물질물리학회 General Session : 바이오/무른/유기 물질

2013년 10월 30일 수요일 15:00 - 16:45

장소: 302호

좌장: **현 창 배** 포스텍

DG-29 [15:00-15:20]

Exploring Allosteric Signaling Pathways and Dynamics of Chaperonin GroEL Using Simple Network and Coarse-grained Model / 박기현, 현창배(고등과학원 계산과학부)

DG-30* [15:20-15:40]

Only One Round ATP Binding And Hydrolysis In NSF Is Sufficient For α -SNAP Mediated Destabilized SNARE Complex / 류제경, 민두영, 나상현, 박용수¹, 김수진², JAHN Reinhard¹, 김호만², 윤태영(Department of Physics, KAIST, Daejeon 350-701, Korea. ¹Department of Neurobiology, Max Planck Institute for Biophysical Chemistry, Gottingen, Germany. ²Graduate School of Medical Science and Engineering, KAIST, 335 Gwahangno, Daejeon 305-701, Korea)

DG-31* [15:40-16:00]

Single Molecule Studies on the Human DNA Mismatch Removal / JEON Yongmoon, FISHEL Richard¹, LEE Jong-Bong(POSTECH, Dept. of Physics. ¹Ohio State University, Dept. of Molecular Virology)

DG-32* [16:00-16:15]

Precise Measurement of diffusion coefficients of membrane proteins using single-particle tracking / DONG-KYUN Kim, DO-HYEON Kim, KAI Zhou¹, HYEONG JEON An², SUNG HO Ryu³, NAM KI Lee⁴(Postech, School of Interdisciplinary Bioscience and Bioengineering. ¹Postech, Department of Life Sciences. ²Postech, Department of Physics. ³Postech, School of Interdisciplinary Bioscience and Bioengineering, Department of Life Sciences, Division of Integrative Biosciences and Biotechnology. ⁴Postech, School of Interdisciplinary Bioscience and Bioengineering, Department of Physics)

DG-33 [16:15-16:30]

Real-time observation of target binding, cleavage, and dissociation of Argonaute-guide complex / SHIN Soochul, JO Myung Hyun¹, JUNG Seung-Ryoung², KIM Eunji³, SONG Ji-Joon³, HOHNG Sungchul⁴(Department of Biophysics and Chemical Biology, SNU. ¹Department of Physics and Astronomy, SNU. ²Department of Physiology and Biophysics, University of Washington. ³Department of Biological Sciences, KAIST. ⁴Department of Biophysics and Chemical Biology, Department of Physics and Astronomy, SNU)

DG-34* [16:30-16:45]

Single-Molecule FRET Studies on Mph1 / PARK Jeongbin, HOHNG Sungchul(Department of Physics and Astronomy, Seoul National University, Seoul, Korea)

[DG6] 응집물질물리학회 General Session : 바이오/무른/유기 물질

2013년 10월 30일 수요일 17:00 - 17:40

장소: 302호

좌장: **홍 성 철** 서울대

DG-35* [17:00-17:20]

Single molecule diagnostic method to reveal cancer-related EGFR signaling / 이홍원, 윤태영(KAIST 물리학과)

DG-36 [17:20-17:40]

Probing Transcriptional Dynamics of T7 RNA Polymerase in Living Cells / 양소라, 김승현, 김동균¹, 이남기(POSTECH, 물리학과. ¹POSTECH, I-BIO)

[DF2] 응집물질물리학회 Focus Session : 나노/중시계, "Frontiers in Mesoscopic Physics"

2013년 10월 31일 목요일 09:00 - 10:45

장소: 컨벤션 II

좌장: **강 기 천** 전남대

DF-09(초) [09:00-09:30]

Supercollision Cooling in Undoped Graphene / 장성호(건국대학교, 물리학과)

DF-10(초) [09:30-10:00]

Mesoscopic Relaxation Resistance via Chiral Topological Superconductor / LEE Minchul, CHOI Mahn-Soo¹(Department of Applied Physics, Kyung Hee University. ¹Department of Physics, Korea University)

DF-11(초) [10:00-10:30]

Superconductivity and Kondo effects; Andreev bound states in a Kondo-Correlated Quantum dot / 김남, 김범규, 안예환, 배명호, 김주진¹, 강기찬², 최만수³, LIM Jong Soo⁴, LOPEZ Rosa⁴(한국표준과학연구원. ¹전북대학교, 물리학과. ²전남대학교, 물리학과. ³고려대학교, 물리학과. ⁴IFISC, Spain)

DF-12 [10:30-10:45]

Towards perfect efficient Cooper-pair splitter / LEE Kang-Ho, BELZIG Wolfgang¹(Konstanz University, Chonnam National University, Dept. of Physics. ¹Konstanz University, Dept. of Physics)

[DF3] 응집물질물리학회 Focus Session : 나노/중시계, "Frontiers in Mesoscopic Physics"

2013년 10월 31일 목요일 11:00 - 12:30

장소: 컨벤션 II
좌장: 이 민 철 경희대

DF-13(초) [11:00-11:30]

Charge Frustration in a Triangular Triple Quantum Dot / SEO Minky, CHOI Hyungkook¹, LEE Soo-Young, KIM Nam², CHUNG Yunchul, SIM Heung-Sun³, UMANSKY Vladimir¹, MAHALU Diana¹(Department of Physics, Pusan National University. ¹Braun Center for Submicron Research, Department of Condensed Matter Physics, Weizmann Institute of Science. ²Korea Research Institute of Standard and Science. ³Department of Physics, Korea Advanced Institute of Science and Technology)

DF-14(초) [11:30-12:00]

Single Electron Source and Current Standard / BAE Myung-Ho, AHN Ye-Hwan, SEO Minky¹, HONG Chang-Ki¹, KATAOKA Masaya², CHUNG Yunchul¹, KIM Nam(Korea Research Institute of Standards and Science, Daejeon, Republic of Korea. ¹Department of Physics, Pusan University, Busan 609-735, Rep. of Korea. ²National Physical Laboratory, Hampton Road, Teddington TW11 0LW, UK)

DF-15(초) [12:00-12:30]

Do we understand the Aharonov-Bohm effect? / 강기천(전남대 물리학과)

[DG7] 응집물질물리학회 General Session : 나노/중시계

2013년 10월 31일 목요일 14:00 - 15:45

장소: 컨벤션 II
좌장: 정 윤 철 부산대

DG-37* [14:00-14:15]

자기공명 힘 현미경을 통한 박막 시료의 NMR 측정 / 손승보, 원순호¹, 권성민, 이순철(한국과학기술원. ¹KIMS 재료연구소)

DG-38* [14:15-14:30]

First-Principle Study on Carbon Nanofoam Structure as an Anode Material for Li Ion Battery / PARK Hanjin, PARK Sora, KANG Seung-Hun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

DG-39* [14:30-14:45]

Charge Kondo Effect In A Triple Quantum Dot / YOO Gwangsu, PARK Jinhong, LEE S.-S. B., SIM H.-S.(KAIST, Physics department)

DG-40* [14:45-15:00]

Electron transport through a quantum dot in the fractional quantum Hall regime with filling factor 2/3 / JINHONG Park, YUVAL Gefen¹, HEUNG SUN Sim(Department of Physics, Korea Advanced Institute of Science and Technology. ¹Department of Condensed Matter Physics, Weizmann Institute of Science)

DG-41 [15:00-15:15]

Measurement-Induced Dephasing of a Qubit Due to Vacuum Fluctuation in a Cavity / 김영완, 이강호, 강기천(전남대학교 물리학과)

DG-42 [15:15-15:30]

Infrared study of High mobility transparent LaBaSnO3 thin film / 서동민, 최은집, 유광남, 장영준, 손아곤, 김기훈(서울시립대학교, 물리학과. ¹서울대학교, 물리학과)

DG-43 [15:30-15:45]

Band gap and effective mass of BN/Graphene/BN: Van der Waals density functional approach / HONG Jisang, HASHMI Arqum(부경대학교 물리학과)

[DG8] 응집물질물리학회 General Session : 나노/중시계

2013년 10월 31일 목요일 16:00 - 17:00

장소: 컨벤션 II
좌장: 김 진 희 표준원

DG-44 [16:00-16:15]

Graphene Field-Effect Transistors Based on Van der Waals Heterostructures / MYOUNG Nojoon, SEO Kyungchul¹, LEE Seung Joo², IHM Gukhyung³(Chungnam National University, Department of Physics. ¹Paichai University, Daeduk Campus for BINT Convergence. ²Quantum-functional Semiconductor Research Center, Dongguk University. ³Chungman National University, Department of Physics)

DG-45 [16:15-16:30]

Ferroelectric instability induced by relativistic effects in lead chalcogenides / KIM Jinwoong, JHI Seung-Hoon(POSTECH, Dept. of Physics)

DG-46 [16:30-16:45]

Low Electrical resistance in multi-stacked large scale CVD graphene / 최은집, 이철, 김주연, 김지호, 배수강, 김상잔, 김근수³, 홍병화⁴(서울시립대학교 물리학과. ¹한국과학기술연구원 소프트역신소재연구센터. ²서울대학교 화학과. ³세종대학교 물리학과. ⁴서울대학교, 화학과)

DG-47 [16:45-17:00]

Infrared-optical spectroscopy of Bi₂Se₃ thin films: thickness-dependent study / E. J. Choi, YU Kwangnam, JEON Jeong Heum¹, KAHNG Se-Jong¹, LEE Hyungjun², CHOI Hyoung Joon²(Physics Department, University of Seoul. ¹Department of Physics, Korea University. ²Department of Physics and IPAP, Yonsei University)

[DP1] 응집물질물리학회 Pioneer Symposium : 표면/계면, “방사광을 기반으로 한 첨단표면과학 기술의 최근 진보”

2013년 10월 31일 목요일 09:00 – 10:50

장소: 컨벤션 III

좌장: 김 기 정 PAL

후원: 포항가속기연구소

* Session in English

DP-01(초) [09:00-09:30]

Near-ambient-pressure XPS: a tool for in-situ observation of surface dynamic processes / KONDOH Hiroshi(Department of Chemistry, Keio University, 3-14-1 Hiyoshi, Kohoku-Ku, Yokohama 223-8522, Japan)

DP-02(초) [09:30-10:00]

Development of Low Pressure Soft X-ray XAFS Measurement System / NAMBU Akira, UEDA Kazuhiro(Central Research Laboratory, Hitachi, Ltd., Hatoyama, Saitama 350-0395, Japan)

DP-03(초) [10:00-10:20]

The First Near Ambient Pressure X-ray Photoelectron Spectroscopy (NAP-XPS) in connection with in-situ Nano-Surface analysis system at KBSI / LEE Jouhahn(Material Science Research division, Korea Basic Science Institute, Korea)

DP-04(초) [10:20-10:50]

Surface science and catalysis : behavior of bimetallic surfaces during CO oxidation / AIRES F.J. Cadete Santos(Institut de Recherches sur la Catalyse et L' Environnement de Lyon, IRCELYON (UMR 5256 CNRS/Universite Lyon 1), Avenue Albert Einstein. 69626 - Villeurbanne cedex. France)

[DP2] 응집물질물리학회 Pioneer Symposium : 표면/계면, “방사광을 기반으로 한 첨단표면과학 기술의 최근 진보”

2013년 10월 31일 목요일 11:00 – 12:44

장소: 컨벤션 III

좌장: 황 찬 국 PAL

후원: 포항가속기연구소

* Session in English

DP-05(초) [11:00-11:26]

Exploring of Spin-polarized Surface States by Highly-Efficient

Spin-Polarized Photoelectron Spectroscopy / OKUDA Taichi(Hiroshima Synchrotron Radiation Center, Hiroshima University, 2-313, Kagamiyama, Higashi-Hiroshima 739-0046, Japan)

DP-06(초) [11:26-11:52]

High efficiency spin-resolved ARPES at the ALS / JOZWIAK Chris(Advanced Light Source, Lawrence Berkeley National Laboratory, USA)

DP-07(초) [11:52-12:18]

Direct Observation of Localized Spin Antiferromagnetic Transition in PdCrO₂ by Angle-Resolved Photoemission Spectroscopy / NOH Han-Jin, JEONG Jinwon, CHANGE Bin, JEONG Dahee, MOON Hyun Sook, CHO En-Jin, KIM Jun Sung¹, KIM Kyoo¹, MIN B. I.¹, LEE Han-Koo², KIM Jae-Young², PARK Byeong-Gyu², KIM Hyeong-Do³, LEE Seongsu⁴(Department of Physics, Chonnam National University, Gwangju 500-757, Korea. ¹Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea. ²Pohang Accelerator Laboratory, POSTECH, Pohang 790-784, Korea. ³Center for Correlated Electron Systems, Institute for Basic Science, Seoul 151-747, Korea. ⁴Korea Atomic Energy Research Institute, Daejeon, 305-353, Korea)

DP-08(초) [12:18-12:44]

Circular dichroism as a new probe of spin-orbital structure in multi-orbital surface / HAN J. H.(Sungkyunkwan University)

[DF4] 응집물질물리학회 Focus Session : 강상관계, “복잡전자계에서 보이는 새로운 상태”

2013년 10월 31일 목요일 14:00 – 16:00

장소: 컨벤션 III

좌장: 황 정 식 성균관대

DF-16(초) [14:00-14:30]

Pressuring iron-based superconductors: new finding and phenomena / SUN Liling, ZHONGXIAN Zhao(Institute of Physics, Chinese Academy of Sciences)

DF-17(초) [14:30-15:00]

Unconventional magnetism in 3D ferromagnetic CeRu₂Ga₂B / 김지훈 (POSTECH, Physics)

DF-18(초) [15:00-15:30]

Heavy-fermion quantum criticality: Neel vs. Kondo / KI-SEOK Kim(Department of Physics, POSTECH)

DF-19(초) [15:30-16:00]

Spin-triplet superconductivity induced by longitudinal ferromagnetic fluctuations in UCoGe / ISHIDA Kenji(Department of Physics, Graduate School of Science, Kyoto University)

[DF5] 응집물질물리학회 Focus Session : 강상관계, “복잡전자계에서 보이는 새로운 상태”

2013년 10월 31일 목요일 16:10 – 17:00

컨벤션 III

좌장: 양 찬 호 KAIST

DF-20(초) [16:10-16:35]

Magnetic spirals and Skyrmions in complex electronic systems / HAN Jung Hoon(Sungkyunkwan University)

DF-21(초) [16:35-17:00]

Experimental realization of novel topological quantum states of matter in the Bi_{1-x}Sb_x / KIM Heon-Jung(Department of Physics, Daegu University, Korea)

[DG9] 응집물질물리학회 General Session : 바이오/무연/유기 물질

2013년 10월 31일 목요일 11:00 – 12:40

장소: 301호

좌장: 홍 석 철 고려대

DG-48 [11:00-11:20]

Molecular Designed Ionic Liquid Crystal in Alkane / JEON Yoonnam, KANG Tae Hui¹, KANG Tae Hui², KIM Mahn Won¹, KIM Mahn Won³(Laser Advanced System Industrialization Center, Jeonnam Technopark. ¹Department of Physics, KAIST. ²Neutron Science Division, KAERI. ³School of Physics and Chemistry, GIST)

DG-49 [11:20-11:40]

Aging Dynamics of Clean Foams / BYUNG MOOK Weon(성균관대 신소재공학부 및 나노과학기술대학원)

DG-50 [11:40-12:00]

Urea-induced Denaturation of PreQ₁-Riboswitch / YOON Jeseong, HYEON Changbong, THIRUMALAI Dave¹(Korea Institute for Advanced Study, School of Computational Sciences. ¹University of Maryland, Institute for Physical Sciences and Technology)

DG-51* [12:00-12:20]

Structure of Ionic Liquid/Water Mixtures Investigated by IR and NMR Spectroscopy / CHA Seoncheol, AO Mingqi, SUNG Woongmo,

MOON Bongjin¹, AHLSTRÖM Bodil², JOHANSSON Patrik², OUCHI Yukio³, KIM Doseok(Department of Physics, Sogang University. ¹Department of Chemistry, Sogang University. ²Department of Applied Physics, Chalmers University of Technology. ³Department of Organic and Polymeric Materials, Tokyo Institute of Technology)

DG-52* [12:20-12:40]

Halide anion dependence on the surface adsorption of long-chain ionic liquids / SUNG Woongmo, WANG Wenjie¹, AO Mingqi, VAKNIN David¹, KIM Doseok²(Department of physics, Sogang University, Seoul 121-742, Korea. ¹Ames Laboratory and Department of Physics, Iowa State University, Ames, Iowa 50011, USA. ²Department of Physics, Sogang University, Seoul 121-742, Korea)

[DP3] 응집물질물리학회/응용물리학회 공동 **Pioneering Symposium : μ SR & β -NMR : 물성 연구를 위한 새로운 실험 기법**

2013년 10월 31일 목요일 14:00 – 15:45

장소: 301호

좌장: 장 지 훈 국민대

후원: 한국연구재단(해외가속기활용국제공동연구지원사업과제)

* Session in English

DP-09(초) [14:00-14:40]

Muons as microscopic probes of condensed matter / MORENZONI Elvezio(Laboratory for Muon-Spin Spectroscopy, Paul Scherrer Institut, Villigen, Switzerland)

DP-10(초) [14:40-15:20]

Studying Materials Using Radioactive Local Probes: An Introduction to the μ SR and β NMR Techniques / MCKENZIE Iain(Center for Molecular and Materials Science, TRIUMF, Canada)

DP-11(초) [15:20-15:45]

μ SR and β -NMR facilities at RAON / LEE Ju Hahn(Institute for Basic Science)

[DP4] 응집물질물리학회/응용물리학회 공동 **Pioneering Symposium : μ SR & β -NMR : 물성 연구를 위한 새로운 실험 기법**

2013년 10월 31일 목요일 16:00 – 17:00

장소: 301호

좌장: 서 병 진 가톨릭대

후원: 한국연구재단(해외가속기활용국제공동연구지원사업과제)

* Session in English

DP-12(초) [16:00-16:35]

J-PARC muon facility, MUSE / MIYAKE Yasuhiro(KEK, Institute of

DP-13(초) [16:35-17:00]

muSR studies on quantum magnets: two examples / CHOI Kwang-Yong, DO Seunghwan, LEE Wonjun, YOON Sungwon¹, SUH Byoungjin¹, JANG Zeehoon², BAUMBACH R. E.³, AMATO Alex⁴, LUETKEN H.⁴(Chung-Ang University, Dept. of Physics. ¹The Catholic University of Korea, Dept. of Physics. ²Kookmin University, Dept. of Physics. ³NHML, FSU, USA. ⁴Lab for Muon Spin Spectroscopy, PSI, Switzerland)

[DF6] 응집물질물리학회 Focus Session : 물성측정, “극한광응용 응집물질연구”

2013년 10월 31일 목요일 09:00 - 10:44

장소: 302호

좌장: 강 현 철 조선대

DF-22(초) [09:00-09:26]

Resonant X-ray Scattering as a Probe for Electronic Structures / 이기봉, 박지회, 조병관, 황상윤, 박재훈, 김재영², 구태연², 이동렬³(포항공과대학교 물리학과, ¹University College London. ²포항가속기연구소, ³숭실대학교 물리학과)

DF-23(초) [09:26-09:52]

Introduction to soft x-ray nanoscopy / 신현준(포항공과대학교, 포항가속기연구소)

DF-24(초) [09:52-10:18]

Spin-induced modification of Dirac band on Fe-intercalated graphene system / 정진욱, 성시진, 양재원, 이평로, 김진걸, 류민태, 박희민, 황찬국¹, 김광수², 김재삼(Department of Physics, POSTECH. ¹Beamline Research Division, Pohang Accelerator Laboratory. ²Department of Chemistry, POSTECH)

DF-25(초) [10:18-10:44]

X-ray Nanoscopy with Multilayer Laue Lenses / KANG Hyon Chol(Chosun University, Department of Advanced Materials Engineering)

[DF7] 응집물질물리학회 Focus Session : 물성측정, “극한광응용 응집물질연구”

2013년 10월 31일 목요일 11:00 - 12:45

장소: 302호

좌장: 이 기 봉 포스텍

DF-26(초) [11:00-11:30]

Coherent X-ray Diffraction Imaging of Core-Shell Strain Structure in Zeolite Crystals / 김현정, 차원석, 정낙천¹, 송상훈², 박현준,

TUNG CAO THANH Pham³, HARDER Ross⁴, 임보배⁵, XIONG Gang⁶, 안도천⁷, MCNULTY Ian⁴, 김정호⁵, 윤경병⁸, ROBINSON Ian⁶(서강대학교 물리학과, ¹대구 경북과학기술원 신물질과학전공, ²서강대학교 바이오융합기술, ³서강대학교 화학과, ⁴Argonne National Laboratory, ⁵서강대학교 생명과학과, ⁶University College London, ⁷포항가속기연구소)

DF-27(초) [11:30-12:00]

Coherent Diffraction Imaging of Nanocrystal / KIM Sangsoo, KIM Chan, KIM Yoonhee, SONG Changyong¹, NOH Doyoung(광주과학기술원 물리광과학과, ¹SACLA, RIKEN Harima)

DF-28* [12:00-12:15]

Enhancement of retrieved image quality with the aid of reference particles by using coherent x-ray diffraction microscope / KIM Chan, KIM Yoonhee, KIM Sunam¹, MARATHE Shashidhara², KANG Hyon Chol³, LIANG Keng San⁴, TSUEI Ku-Ding⁴, HWU Yeukuang⁵, LEE T. K.⁵, NOH Do Young(Department of Physics and Photon Science & School of Materials Science and Engineering, Gwangju Institute of Science and Technology. ¹Pohang Accelerator Laboratory. ²X-ray Science Division, Argonne National Laboratory. ³Department of Advanced Materials Engineering, Chosun University. ⁴National Synchrotron Radiation Research Center. ⁵Institute of Physics, Academia Sinica)

DF-29 [12:15-12:30]

First Implementation Of X-Ray Photon Correlation Spectroscopy To Polymers With X-Ray Free Electron Laser / CARNIS Jerome(서강대학교 물리학과)

DF-30* [12:30-12:45]

Three dimensional visualization of mammalian mitochondrion with coherent x-rays from synchrotrons and femtosecond x-ray lasers / KIM Yoonhee, KIM Chan, KIM Sang Soo, KIM Sunam¹, NAM Daewoong², GALLAGHER-JONES Marcus³, SONG Changyong³, NOH Do Young(Department of Physics and Photon Science & School of Materials Science and Engineering, GIST. ¹Pohang Accelerator Laboratory. ²Department of Physics, POSTECH. ³RIKEN Harima Institute)

[DF8] 응집물질물리학회 Focus Session : 계산과학 및 표면/계면 공동, “제일원리계산 기반 표면물리학”

2013년 10월 31일 목요일 14:00 - 15:45

장소: 302호

좌장: 김 용 현 KAIST

DF-31(초) [14:00-14:30]

First-principles studies of surface magnetism / HONG Soon Cheol,

YUN Won Seok, ODKHUU Dorj, KWON Oryong, TAIVANSAIKHAN Purev,
JEKAL Soyoung(Department of Physics and EHSRC, University of Ulsan)

DF-32(초) [14:30-15:00]

광전기화학적 물분해 반응에 대한 전산모사 연구 / 공기정, 장현주, 백진욱
(한국화학연구원, 화학소재 연구본부, 한국화학연구원, 그린화학공정 연구본부)

DF-33(초) [15:00-15:30]

Surface Reconstructions and Equilibrium Nanocrystal Shapes of
GaN / KIM Yong-Sung, LEE Woo-Jin¹, HYUN Jung-Min², KIM Hanchul³(Korea
Research Institute of Standards and Science. ¹Samsung Advanced Institute of
Technology. ²Sookmyung Women's University)

DF-34 [15:30-15:45]

Decay patterns of localized states at reconstructed armchair
graphene edges / KIM Gunn, PARK Changwon¹, IHM Jisoon¹(Department
of Physics, Sejong University. ¹Department of Physics, Seoul National University)

[DF9] 응집물질물리학과회 Focus Session : 계산과학 및 표면/계면 공동,
“제일원리계산 기반 표면물리학”

2013년 10월 31일 목요일 16:00 – 17:00

장소: 302호

좌장: 김 건 세종대

DF-35(초) [16:00-16:30]

Origin of Insulating Ground State of In/Si(111) and Sn/Ge(111) /
조준형(한양대학교, 물리학과)

DF-36(초) [16:30-17:00]

Room-Temperature Atomic Structure and Lattice Instability of In
Nanowires on the Si(111) Surface / KIM Hanchul, CHANG Yun Hee¹,
LEE Geunseop²(Sookmyung Women's University, Department of Physics. ¹Korea
Advanced Institute of Science and Technology, Graduate School of Nanoscience
and Technology. ²Inha University, Department of Physics)

[KF1] 반도체물리학과회/응집물질물리학과회 공동 Focus Session :
고자기장을 이용한 이미징 재료 및 소자 물성 연구

2013년 10월 31일 목요일 14:00 – 15:40

장소: 607호

좌장: 김 응 민 단국대

KF-01(초) [14:00-14:25]

Quantum Oscillations in Q1D Organic Superconductors,
(TMTSF)₂ClO₄, Under Pressure in High Magnetic Fields / CHUNG Ok
Hee, BROOKS James¹, CHOI Eun Sang¹(순천대학교, 물리교육과, ¹Florida State
University, NHMFL)

KF-02(초) [14:25-14:50]

Optical Aharonov-Bohm Effect in a Single Quantum Ring / KYHM
K, KIM H. D.¹, TAYLOR R¹, NICOLET A. A. L.², POTEMSKI M², NOGUES G³, JE
K. C.⁴, OKUYAMA R⁵, ETO M⁵, LEE W. J.⁶, KIM J. S.⁷, KYHM J. H.⁸, LEE E. H.⁸,
SONG J. D.⁹(Pusan Nat'l Univ. Grad. School of Cognomechatronics/Physics Edu..
¹Univ. Oxford, Clarendon Laboratory. ²CNRS, LNCMI. ³CNRS, Neel Institut.
⁴Anyang Univ. Liberal Arts and Science. ⁵Keio Univ. Physics. ⁶Pusan Nat'l Univ.
Grad. School of Cognomechatronics. ⁷Yeungnam Univ. Physics. ⁸KIST)

KF-03(초) [14:50-15:15]

High Magnetic Field Studis of Topological Insulators / 정명화(서강
대학교, 물리학과)

KF-04(초) [14:15-15:40]

Development of Schizophrenia Disease Early Detection Tool
through Cortical Thickness Analysis of T1-MRI Data / LEE Boreom,
MIN Beom Jun, QURESHI Muhammad(광주과학기술원 의료시스템학과)

[KF2] 반도체물리학과회/응집물질물리학과회 공동 Focus Session :
고자기장을 이용한 이미징 재료 및 소자 물성 연구

2013년 10월 31일 목요일 16:00 – 16:50

장소: 607호

좌장: 정 명 화 서강대

KF-05(초) [16:00-16:25]

Diamagnetic energy shift in InP-GaP effective-mass superlattice
under pulsed magnetic fields / KIM Yongmin, SHIN Yongho, SONG
Jindong¹, MATSUDA Y.H.², TAKEYAMA S.²(Dankook University. ¹KIST.
²University of Tokyo)

KF-06(초) [16:25-16:50]

Graphene and Carbon Nanotube Research by Using 60 Tesla
Dresden High Magnetic Field Facilities / 장성호(건국대학교 물리학과)

[KF3] 반도체물리학과회/응집물질물리학과회 공동 Focus Session :
고자기장을 이용한 이미징 재료 및 소자 물성 연구

2013년 11월 1일 금요일 09:30 – 10:45

장소: 컨벤션 1

좌장: 김 지 희 성균관대

KF-07(초) [09:30-09:55]

고자기장과 초전도 자석 / 이형철(경북대학교, 물리학과)

KF-08(초) [09:55-10:20]

Angle Dependent Magnetoresistance in a Very High Magnetic Field / 강원(이화여자대학교 물리학과)

KF-09(초) [10:20-10:45]

고자기장을 이용한 자기적 특성 연구 / Jo Younjung(경북대학교 물리학과)

**[KF4] 반도체물리학과/응집물질물리학과 공동 Focus Session :
고자기장을 이용한 이미징 재료 및 소자 물성 연구**

2013년 11월 1일 금요일 11:00 - 11:50

장소: 컨벤션 I

좌장: 이 보 림 광주과학기술원

KF-10(초) [11:00-11:25]

Superfluorescence in an Ultradense Electron-Hole Plasma / KIM Ji-Hee, NOE Tim¹, WANG Yongrui², WOJCIK Aleksander², BELYANIN Alexey², MCGILL Stephen³, KONO Junichiro¹(Sungkyunkwan University. ¹Rice University, Houston TX. ²Texas A&M University, College station TX. ³National High Magnetic Field Laboratory, Tallahassee FL)

KF-11(초) [11:20-11:50]

Challenges of magneto-optics for observing long-range order / 조영달(광주과학기술원, 정보통신공학부)

[DF10] 응집물질물리학과 Focus Session : "산화물 박막 및 이종구조에서의 새로운 물리적 성질"

2013년 11월 1일 금요일 09:00 - 10:45

컨벤션 II

좌장: 장 영 준 서울시립대

DF-37(초) [09:00-09:30]

Electronic Structure, Superconductivity, and Ferromagnetism in Nickelate Superlattices / HAN Myung Joon(KAIST, Department of Physics)

DF-38(초) [09:30-10:00]

Direct Observation of Asymmetric Domain Wall Motion in A Ferroelectric Capacitor using In-situ TEM / 오상호, 이자경, 신가영, 송경, 최우석¹, 박성용², 이호녕³(포항공과대학교, 신소재공학과. ¹성균관대학교, 물리학과. ²삼성종합기술원. ³Oak Ridge National Laboratory)

DF-39(초) [10:00-10:30]

Reversible redox reaction in epitaxial strontium cobaltites / CHOI Woo Seok(Department of Physics, Sungkyunkwan University)

DF-40 [10:30-10:45]

Dimensionality Control of Orbital Population in Oxide Superlattice / JEONG Da Woon, CHOI Woo Seok¹, OKAMOTO Satoshi², KIM J. -Y.³, KIM K. W.⁴, MOON S. J.⁵, CHO D. -Y., LEE H. N.², NOH T. W.(IBS-Center for Correlated Electron Systems, Seoul National University. ¹Sungkyunkwan University. ²Oak Ridge National Laboratory. ³Pohang Accelerator Laboratory. ⁴Chungbuk National University. ⁵Hanyang University)

[DF11] 응집물질물리학과 Focus Session : 나노/중시계, 그래핀과 위상 부도체

2013년 11월 1일 금요일 11:00 - 12:45

컨벤션 II

좌장: 이 후 중 포스텍

DF-41(초) [11:00-11:30]

Absence of Aharonov-Bohm Effect of Chiral Majorana Fermion Edge States / 박성훈, JOEL MOORE¹, 심흥선(한국과학기술원 물리학과. ¹UC Berkeley)

DF-42(초) [11:30-12:00]

Graphene Barristors using 2-Dimensional Materials / 정현중, 김현철, 이준호, 최두화, 이한별, 윤호양, 김학성, 이상욱(건국대학교, 물리학과)

DF-43(초) [12:00-12:30]

Monolayer Homojunction Thermoelectric Conversion in Two-Dimensional Bismuth Tellurides / SUNG Ji Ho, HEO Hoseok, LIM Myungsoo¹, HWANG Inchan², LEE Donghun³, KANG Kibum¹, JHI Hoon¹, JO Moon-Ho⁴(Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science (IBS), Division of Advanced Materials Science. ¹Department of Physics, Pohang University of Science and Technology (POSTECH), 77 Cheongam-Ro, Pohang 790-784, Korea. ²Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science (IBS), Department of Materials Science and Engineering. ³Center for Artificial Low Dimensional Electronic Systems. ⁴Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science (IBS), Department of Materials Science and Engineering)

DF-44 [12:30-12:45]

Boundary Dependent Edge States Of 2D Topological Insulator In Kane-Mele Model / DOH Hyeonjin, CHOI Hyoung Joon, JEON Gun Sang¹(Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University. ¹Dept. of Physics, Ewha Womans University)

**[DG10] 응집물질물리학과회 General Session : 나노/중시계, 그래핀과
위상부도체**

2013년 11월 1일 금요일 13:00 - 14:45

컨벤션 II
좌장: 도 용 주 고려대

DG-53 [13:00-13:15]

Optical spectrum of Hofstadter's fractal butterfly / MOON Pilkyung,
KOSHINO Mikito¹(고등과학원, ¹Tohoku University)

DG-54 [13:15-13:30]

Anisotropic Friction Domain from Zigzag Directional Ripples in Graphene / 우성중, 최진식¹, 장영준², 손영우, 박배호³(고등과학원, 계산과학부, ¹한국전자통신연구원, 그래핀소재 창의연구센터, ²서울시립대학교, 물리학과, ³건국대학교, 물리학과)

DG-55* [13:30-13:45]

Josephson coupling through surface conducting channels in 3D topological insulators / LEE Jae Hyeong, LEE Gil-Ho, LEE Janghee, PARK Joonbum, NAM Seung-Geol, SHIN Yun-Sok, KIM Jun Sung, LEE Hu-Jong(Pohang University of Science and Technology, Department of Physics)

DG-56* [13:45-14:00]

Observation of Short Ballisticity in Vertical Graphene Josephson Junctions / 이길호, 이후종(POSTECH 물리학과)

DG-57* [14:00-14:15]

Direct Confirmation of the Surface-dominant Current Distribution in Three-dimensional Topological Insulators / LEE Janghee, LEE Jae-Hyeong, PARK Joonbum, KIM Jun Sung, LEE Hu-Jong(POSTECH)

DG-58* [14:15-14:30]

First Principle Study on Elastic and Electronic Properties of γ -Graphyne Nanotubes / LEE Hyun Soo, KANG Seoung-Hun, PARK Sora, LEE Chang-Sun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

DG-59* [14:30-14:45]

금속층을 활용한 무촉매 그래핀 직접 성장 기술 개발 / 최재우, 이창묵(경희대학교, 정보디스플레이학과)

**[DF12] 응집물질물리학과회 Focus Session : 초전도, 초전도 소자/소재에
서의 양자 및 위상 효과**

2013년 11월 1일 금요일 09:00 - 10:44

컨벤션 III
좌장: 도 용 주 고려대

DF-45(초) [09:00-09:26]

Quantum State Manipulation, Measurement, and Spectroscopy of a Supercondting Qubit / CHONG Yonuk(Korea Research Institute of Standards and Science)

DF-46(초) [09:26-09:52]

Gate-tuned Supercurrent Switching and Access to Quantum States in Graphene p-n Junctions / CHOI Jae-Hyun, LEE Gil-Ho, PARK Sunghun¹, JEONG Dongchan, LEE Jeong-O², SIM H.-S.¹, DOH Yong-Joo³, LEE Hu-Jong(Dept. of Physics, POSTECH, Korea. ¹Dept. of Physics, KAIST, Korea. ²NanoBio Fusion Research Center, KRICT, Korea. ³Dept. of Display and Semiconductor Physics, Korea University Sejong Campus, Korea)

DF-47(초) [09:52-10:18]

Shadow gap in the over-doped $(\text{Ba}_{1-x}\text{K}_x)\text{Fe}_2\text{As}_2$ compound / 방 (BANG) 윤규(Yunkyu)(전남대학교 물리학과)

DF-48(초) [10:18-10:44]

Evidence for a charge collective mode associated with superconductivity in copperoxides : 박승룡(인천대학교, 물리학과)

[DG11] 응집물질물리학과회 General Session : 초전도

2013년 11월 1일 금요일 11:00 - 12:30

장소: 컨벤션 III
좌장: 김 기 훈 서울대

DG-60* [11:00-11:15]

Quantum Oscillations of Topological Superconductors $\text{Cu}_x\text{Bi}_2\text{Se}_3$ / PARK Joonbum, KAMPERT E.¹, KIM J. S.(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea. ¹Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf, Dresden, D-01314, Germany)

DG-61* [11:15-11:30]

Electronic nematicity in SmFeAsO proven by torque magnetometry / OK Jong Mok, EOM M. J., JO Y.J.¹, KIM J. S.(Department of Physics, Pohang University of Science and Technology, Pohang. ¹Department of Physics, Kyungpook National University, Daegu)

DG-62* [11:30-11:45]

Scanning Josephson Tunneling Microscopy on $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ / LEE Jinho, JOO Sang Hyun, YOO Junghoon, PARK Min Seok, KIM Jae-joon, LEE Inhee¹, KIM Chung Ku², DAVIS J.C.²(Department of Physics, Seoul National Univesity. ¹CMPMS Department, Brookhaven Natioanl Laboratory. ²LASSP, Department of Phsics, Cornell University)

DG-63* [11:45-12:00]

3d electronic structure studies on superconducting CaC_6 / 경원식, 김용관, 한가람, 임춘식, 김창영, 김영욱¹, 김준성²(연세대학교, 물리학과. ¹포항공과대학교, 물리학과)

DG-64* [12:00-12:15]

Electronic anisotropy and orbital ordering in iron pnitides observed by ARPES and XAS / 고윤영, 김용관, 서정진, 송동준, 정원식, 한가람, 경원식, 김범영, 조수현, 김범서, 엄만진, 김준성¹, 이한구², 박병규², 김재영², 김창영²(연세대학교 물리학과. ¹포항공과대학교 물리학과. ²포항공과대학교 포항가속기연구소)

DG-65 [12:15-12:30]

Observation of Photon Number Splitting in Superconducting Circuit QED / HA Dong-Gwang, SHIM Seung-Bo, PARK Jung Hwan, SONG Woon, CHONG Yonuk(Korea Research Institute of Standards and Science)

[DG12] 응집물질물리학분과회 General Session : 유전체

2013년 11월 1일 금요일 09:00 - 10:20

장소: 301호

좌장: 송 태 권 창원대

DG-66 [09:00-09:20]

Mesoporous Silica: A Highly Potential and Compatible Candidate for Theranostic Applications / GANDHI Sakthivel, KWON Bong-Joon, WOO Hyun-Joo¹, SHIN Dong-Soo², JANG Kiwan¹(Changwon national university, Research institute of basic sciences. ¹Changwon national university, Department of physics. ²Changwon national university, Department of chemistry)

DG-67 [09:20-09:35]

Three-Step Ferroelectric Polarization Switching in BiFeO_3 Thin Films / YANG Chan-Ho, LEE Jin Hong, CHU Kanghyun, KIM Kwang-Eun(Department of Physics, KAIST, Daejeon 305-701, Republic of Korea)

DG-68 [09:35-09:50]

Synthesis and Characterization of Carbon Nanotubes/ $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ Nanocomposites / HAN Jin Kyu, KWAK Jin Ho, KIM

Jongok, BU Sang Don(Department of Physics, Chonbuk National University)

DG-69* [09:50-10:05]

Dion jacobson 구조의 RbANb_2O_6 (A = Bi, Nd) 물질에서의 강유전상에 관한 제일원리 계산 / SIM Hyunsu, KIM Boggi(부산대학교 물리학과)

DG-70* [10:05-10:20]

Probing of surface polarization of epitaxially grown PbVO_3 / JO William, OH Seol Hee, SHIN Ran Hee(Ewha Womans University, Department of physics)

[DF13] 응집물질물리학분과회 Focus Session : 유전체, “강유전체의 새로운 현상”

2013년 11월 1일 금요일 11:00 - 12:40

장소: 301호

좌장: 송 태 권 창원대

DF-49(초) [11:00-11:25]

Mode Coupling between the Nonpolar K_3 and Polar Phonons as the Ferroelectricity Origin of Multiferroic $h\text{-LuMnO}_3$ / 장현명, 송승우(포항공과대학교 첨단재료과학부)

DF-50(초) [11:25-11:50]

Flexoelectric Effects in the Reversal of Self-Polarization of BiFeO_3 Thin Films / BU Sang Don, JEON Byung Chul¹, LEE Daesu¹, LEE Myang Hwan², YANG Sang Mo¹, SONG Tae Kwon², CHUNG Jin-Seok³, YOON Jong-Gul⁴, NOH Tae Won¹(Department of Physics, Chonbuk National University. ¹Center for Correlated Electron Systems, Institute for Basic Science (IBS) and Department of Physics and Astronomy, Seoul National University. ²School of Nano and Advanced Materials Engineering, Changwon National University. ³Department of Physics, Soongsil University. ⁴Department of Physics, University of Suwon)

DF-51(초) [11:50-12:15]

Emergence of Non-trivial Ferroelectric Domains in $h\text{-REMnO}_3$ / CHAE Seung Chul, LEE Nara¹, HORIBE Yoichi¹, CHEONG Sang-Wook¹(Center for Correlated Electron System, Institute for Basic Science, Seoul National University. ¹Rutgers Center for Emergent Materials and Department of Physics and Astronomy, Rutgers University, Piscataway, New Jersey 08854, USA)

DF-52(초) [12:15-12:40]

Enhanced Tunability in Multiferroics / 이나라(연세대학교 물리학과)

[DF14] 응집물질물리학과회 Focus Session : 유전체, "나노유전체"

2013년 11월 1일 금요일 13:00 - 14:45

장소: 301호

좌장: 부 상 돈 전북대

DF-53(초) [13:00-13:25]

Polarization mediated Charge Conductions in Nano-ferroelectrics / 최택집, 전지훈¹, 이호상, 주호용, 김윤식², 박배호³(세종대학교, 나노신소재공학과, ¹건국대학교, 물리학과, ²성균관대학교, 신소재공학부)

DF-54(초) [13:25-13:50]

Direct Imaging of Spatial Charge Separation and Ferroelectric Polarization in Nanoscale Dielectric/Ferroelectric Nanotubes using Scanning Force Microscopy / SHIN Hyunjung(Department of Energy Science, Sungkyunkwan University, Suwon, Korea)

DF-55(초) [13:50-14:15]

Topography Engineering of Ferroelectric Crystalline Copolymer Film / HYEONJUN Lee, YONG JAE Kim¹, EUNJI Lee¹, KUI Yao², JI YOUNG Jo(Gwangju Institute of Science and Technology, ¹Chungnam National University, Graduate School of Analytical Science and Technology, ²Institute of Materials Research and Engineering, A*STAR)

DF-56 [14:15-14:30]

Investigation on photoluminescence property of free standing PbTiO₃ nanotubes with wall-thickness dependence / 전창현, 한진규¹, 부상돈², 이윤상(숭실대학교 물리학과, ¹전북대학교 물리학과)

DF-57 [14:30-14:45]

Enhanced Electric Formation of Functional Long-range Stripe Nanostructures Based on a Morphotropic Phase Boundary / YANG Chan-Ho, KIM Kwang-Eun¹, JANG Byung-Kweon¹, HEO Yooun², JEONG Myounggho³, LEE Jin Hong¹, CHU Kanghyun¹, LEE Jeong Yong⁴, SEIDEL Jan²(Department of Physics, KAIST; Institute for the NanoCentury, KAIST, ¹Department of Physics, KAIST, ²School of Materials Science and Engineering, University of New South Wales, ³Center for Nanomaterials and Chemical Reactions, Institute for Basic Science; Department of Materials Science and Engineering, KAIST, ⁴Center for Nanomaterials and Chemical Reactions, Institute for Basic Science; Department of Materials Science and Engineering, KAIST; Institute for the NanoCentury, KAIST)

[DG13] 응집물질물리학과회 General Session : 자성체

2013년 11월 1일 금요일 09:00 - 10:45

장소: 302호

좌장: 홍 순 철 울산대

DG-72 [09:15-09:30]

Nuclear Magnetic Resonance in ferromagnetic multilayers and nanocomposites / MENY Christian(Institute of Physics and Chemistry for Materials of Strasbourg)

DG-73 [09:30-09:45]

Effects of Carrier Fluid Drying on the ac Susceptibility of Aqueous Magnetite Nanoparticles / YOON Sunghyun(Department of Physics, Gunsan National University)

DG-74 [09:45-10:00]

자성층과의 상호작용이 자성 Skyrmion 격자에 미치는 영향에 대한 전산 연구 / 강상표, 권희영, 김화섭, 원창연(경희대 물리학과)

DG-75 [10:00-10:15]

Low temperature exchange bias effect in Co thin films on GaAs(100) / 조성래, 신유리미, 전승목, DUONG AnhTuan, 최정용(울산대학교, 물리학과)

DG-76 [10:15-10:30]

Bi₂Fe₄O₉-Fe₃O₄ nanocomposite thin film: MBE growth and magnetic properties / 조성래, DUONG AnhTuan, 신유리미, NGUYEN VanQuang, 최정용(울산대학교, 물리학과)

DG-77* [10:30-10:45]

Temperature-dependent Structural and Magnetic Properties of Diamagnetic HgI₂ / PARK C.-I., SON J.-K., JIN Zhenlan, HWANG I.-H., YEO S.-M.¹, HAN S.-W.(Department of Physics Education and Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Korea, ¹KAERI (Korea Atomic Energy Research Institute), P. O. Box 105, Yuseong, Daejeon 305-600, Korea)

[DG14] 응집물질물리학과회 General Session : 계산과학

2013년 11월 1일 금요일 11:00 - 12:45

장소: 302호

좌장: 김 용 성 표준원

DG-78* [11:00-11:15]

Quantum Monte Carlo Study of the Cohesion Energetics of Carbon Allotropes / KWON Yongkyung, SHIN Hyeondeok, KANG

Sinabro, LEE Hoonkyung, KIM Jeongnim¹(건국대, 물리학과, ¹Oak Ridge National Laboratory, Materials Science and Technology Division)

DG-79* [11:15-11:30]

First-Principles Study on Oxygen- and Fluorine-Driven Partially Unzipped Carbon Nanotubes / LEE Hyung-June, KIM Gunn¹, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University, ¹Department of Physics and Graphene Research Institute, Sejong University)

DG-80* [11:30-11:45]

First-Principles Electronic Structure and Transmission Calculations of Spin-Filtering Carbon Nanotubes with Magnetic Impurities / KHAN Muhammad Ejaz, KIM Yong-Hyun(Graduate School of Nanoscience and Technology, KAIST)

DG-81* [11:45-12:00]

First-principles Study of Atomic Si Defects in Graphene / KIM Na-Young, LEE Eui-sup, KIM Yong-Hyun(Graduate School of Nanoscience and Technology, KAIST, Daejeon 305-701, Korea)

DG-82* [12:00-12:15]

Native Defects and Impurity doping in Single Layer MoS₂ / NOH Ji-Young, PARK Minkyu¹, KIM Yong-Sung¹, KIM Hanchul(Department of Physics, Sookmyung Women's University, ¹Korea Research Institute of Standards and Science (KRISS))

DG-83 [12:15-12:30]

Electronic Band Structures and Wavefunction Properties of High-Mobility Nanosheet Semiconductor, MoS₂ / BAIK Seung Su, LEE Hee Sung¹, IM Seongil¹, CHOI Hyoung Joon(Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University, Seoul 120-749, Korea, ¹Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea)

DG-84* [12:30-12:45]

Effect of interface Ge atoms on the segregation of B dopants in SiGe/SiO₂ interface / LEE Chang Hwi, OH Young Jun, KIM Geun-Myeong, CHANG Kee Joo(KAIST, Department of Physics)

[DG15] 응집물질물리학회 General Session : 계산과학

2013년 11월 1일 금요일 13:00 - 14:00

장소: 302호

좌장: 공기정 화학연

DG-85* [13:00-13:15]

Revisiting the Dynamic Properties of BaTiO₃ Polytypes: Hybrid Calculations and Pressure-Dependences / SEO Yu-Seong, AHN Jai Seok(Department of Physics, Pusan National University)

DG-86* [13:15-13:30]

Quasiparticle GW calculations of the effective work function at TiN/HfO₂ interface / OH Young Jun, LEE Alex Taekyung, NOH Hyeon-Kyun¹, CHANG Kee Joo(KAIST, Department of Physics, ¹Samsung Electronics Co. Ltd.)

DG-87 [13:30-13:45]

Soft Vibration Driven Hydrogen Storage at Room Temperature: Lesson from First-Principles Thermodynamics / KIM Yong-Hyun, WOO Sung-Jae, LEE Eui-Sup, YOON Mina¹(Graduate School of Nanoscience and Technology, KAIST, ¹Oak Ridge National Laboratory, Oak Ridge, U.S.A.)

DG-88* [13:45-14:00]

Lattice Thermal Conductivity of Silicon Nanowires / KIM Yong-Sung, PARK Minkyu(한국표준과학연구원, 나노소재평가센터)

SESSION E

응용물리학회

[EG1] 응용물리학회 General Session

2013년 10월 30일 수요일 13:00 - 14:20

장소: 602호

좌장: 부 상 돈 전복대

EG-01 [13:00-13:20]

Microwave Nanoheating for Low-temperature Processing of Carbon Nanotube Films on Plastic Substrates / SUNSHIN Jung, JOONG TARK Han, DAEHO Kim, JONG SEOK Woo, JUNG-HYUN Kim, SU JIN Chun(Korea Electrotechnology Research Institute)

EG-03* [13:20-13:35]

Gate Bias Stress-Induced Electrical Instability of Multi-layer MoS₂ Field Effect Transistors / 조경준, 박완서, 김태영(서울대학교 물리천문학부 물리학과)

EG-04* [13:35-13:50]

Tunable luminescent properties of graphene quantum dots by controlling oxygenous functional group / JANG Min-Ho, LIU Fei¹, HA Hyun Dong¹, KIM Je-Hyung, LEE Eui-Sup², KIM Yong-Hyun², SEO Tae Seok¹, CHO Yong-Hoon(Korea Advanced Institute of Science and Technology (KAIST), Department of Physics. ¹Korea Advanced Institute of Science and Technology (KAIST), Department of Chemical and Biomolecular Engineering. ²Korea Advanced Institute of Science and Technology (KAIST), Department of Graduate School of Nanoscience and Technology)

EG-05* [13:50-14:05]

Functionalization of Graphene Layers with Single-Stranded DNA / SIM Yumin, SEONG Maeng-Je(Chung-Ang University, Department of Physics)

EG-06* [14:05-14:20]

그래핀-실리콘 이중접합구조를 이용한 고효율 광센서 / 박흥기, 최재우(경희대학교, 정보디스플레이학과)

[EG2] 응용물리학회 General Session

2013년 10월 30일 수요일 15:00 - 16:50

장소: 602호

좌장: 박 응 섭 경희대

EG-07 [15:00-15:20]

전자공학에서 메타공학으로 / 김상훈(목포해양대학교, 기관공학부)

EG-08 [15:20-15:35]

Fabrication of a microcalorimeter with enhanced sensitivity at temperatures 300-600 K / KIM Kee Hoon, LEE Woong-Jhae, KIM Hyung Joon, KIM Jae Wook¹(CeNSCMR, Department of Physics and Astronomy, Seoul National University. ¹Los Alamos National Laboratory, USA)

EG-09* [15:35-15:50]

Measurement of thermal conductivity of Bi thin films with high-density ordered nanoscopic pores / PARK No-won, LEE Won-yong, KIM Gil-sung¹, LEE Sang-kwon(Deparrtment of Physics, Chung-Ang University, Seoul, 156-756, Korea. ²Department of Semiconductor Science and Technology, Chonbuk National University, Jeonju, 561-756, Republic of Korea)

EG-10* [15:50-16:05]

VO₂ 박막에서의 광기전력 효과에 관한 연구 / 김석원, 강만일, 정주호(울산대학교 물리학과)

EG-11* [16:05-16:20]

Metal-semiconductor Junctions Generated NiO_x/Ni Nanodots / JO William, LEE Nuri, MENY Cristian¹(Ewha Womans University, Department of Physics. ¹UMR 7504 ULP-CNRS, Institute of Physics and Chemistry of Materials of Strasbourg)

EG-12* [16:20-16:35]

Enhanced Light Emission in ZnO/Ag Nanograting via Cavity Mode and Surface Plasmon / MINJI Gwon, DONG-WOOK Kim, DAHYUN nam¹, HYEONSIK Cheong¹, Y.U. Lee, J.W. Wu(Ewha Womans University, Department. of Physics. ¹Sogang University, Department of Physics)

EG-13* [16:35-16:50]

Investigation of spin polarized Cu-Phthalocyanine spinterface / BAE Yu Jeong, LEE Nyun Jong, PRATT Andrew¹, YAMAUCHI Yasushi², KIM Tae Hee(Ewha Womans University, Department of Physics. ¹National Institute for Materials Science, International Center for Young Scientist. ²National Institute for Materials Science, Spin Characterization Group)

[ET1] 응용물리학회 Tutorial

2013년 10월 30일 수요일 18:00 - 20:00

장소: 302호

좌장: 김 선 경 경희대

ET-01 [18:00-20:00]

플라즈모닉 광학나노안테나의 기초와 응용 / 서민교(KAIST, 물리학과)

[EF1] 응용물리학과 Focus Session : 나노플라즈모닉스

2013년 10월 31일 목요일 14:00 – 15:30

장소: 602호

좌장: 조 창 희 DGIST

EF-01 [14:00-14:30]

나노금속소재의 박막태양전지 응용 / 김동호(재료연구소)

EF-02 [14:30-15:00]

Electrically Tunable Strong Coupling in Metamaterial-Semiconductor Hybrid Nanostructures / 전영철(인하대학교 물리학과)

EF-03 [15:00-15:30]

Plasmonic Optoelectronic Devices: From LEDs to Solar Cells / SUN KYUNG KIM(Applied Physics Department, Kyung Hee University)

[EF2] 응용물리학과 Focus Session : 나노플라즈모닉스

2013년 10월 31일 목요일 16:00 – 17:00

장소: 602호

좌장: 전 영 철 인하대

EF-04 [16:00-16:30]

Physical Mechanism of Plasmonic Nanopore Formation / CHOI Seong Soo(SunMoon University, Department of Physics and Nanoscience)

EF-05 [16:30-17:00]

Tailoring optoelectronic properties in nanophotonic/plasmonic semiconductors / 조창희(대구경북과학기술원, 신물질과학전공)

[DP3] 응집물질물리학과/응용물리학과 공동 Pioneering Symposium : μ SR & β -NMR : 물성 연구를 위한 새로운 실험 기법

2013년 10월 31일 목요일 14:00 – 15:45

장소: 301호

좌장: 장 지 훈 국민대

후원: 한국연구재단(해외가속기활용국제공동연구지원사업과제)

* Session in English

DP-09(초) [14:00-14:40]

Muons as microscopic probes of condensed matter / MORENZONI Elvezio(Laboratory for Muon-Spin Spectroscopy, Paul Scherrer Institut, Villigen, Switzerland)

DP-10(초) [14:40-15:20]

Studying Materials Using Radioactive Local Probes: An Introduction to the μ SR and β NMR Techniques / MCKENZIE

Iain(Center for Molecular and Materials Science, TRIUMF, Canada)

DP-11(초) [15:20-15:45]

μ SR and β -NMR facilities at RAON / LEE Ju Hahn(Institute for Basic Science)

[DP4] 응집물질물리학과/응용물리학과 공동 Pioneering Symposium : μ SR & β -NMR : 물성 연구를 위한 새로운 실험 기법

2013년 10월 31일 목요일 16:00 – 17:00

장소: 301호

좌장: 서 병 진 가톨릭대

후원: 한국연구재단(해외가속기활용국제공동연구지원사업과제)

* Session in English

DP-12(초) [16:00-16:35]

J-PARC muon facility, MUSE / MIYAKE Yasuhiro(KEK, Institute of Materials Structure Science, Japan)

DP-13(초) [16:35-17:00]

muSR studies on quantum magnets: two examples / CHOI Kwang-Yong, DO Seunghwan, LEE Wonjun, YOON Sungwon¹, SUH Byoungjin¹, JANG Zeehoon², BAUMBACH R. E.³, AMATO Alex⁴, LUETKEN H.⁴(Chung-Ang University, Dept. of Physics. ¹The Catholic University of Korea, Dept. of Physics. ²Kookmin University, Dept. of Physics. ³NHMF, FSU, USA. ⁴Lab for Muon Spin Spectroscopy, PSI, Switzerland)

[EG3] 응용물리학과 General Session

2013년 11월 1일 금요일 09:00 – 10:35

장소: 602호

좌장: 홍 석 철 고려대

EG-14 [09:00-09:20]

User-Friendly Universal and Durable Subcellular-Scaled Template for Protein Binding / JANG Jae-Won(Pukyong National University, Physics)

EG-15 [09:20-09:35]

원자층 증착을 통해 표면을 보호한 광자결정레이저의 바이오센서로서의 응용 / 전현수, 차형래, 이정국², JORDAN LUKE³, 오상현⁴, 김호진⁵(서울대학교, 생물물리 및 화학생물학과, 물리천문학부, ¹서울대학교, 생물물리 및 화학생물학과, ²서울대학교, 물리천문학부, ³미네소타대학교, Department of Biomedical Engineering, ⁴미네소타대학교, Department of Electrical and Computer Engineering, Department of Biomedical Engineering, ⁵한국광기술원)

EG-16 [09:35-09:55]

EFFECTS OF THE INTRINSIC MECHANICAL PROPERTIES OF A SINGLE CELL ON DIFFERENTIATION IN ADIPOSE, BONE NARROW-

AND UMBILICAL CORD-DERIVED MESENCHYMAL STEM CELLS / 김 경숙, 한인, 박한국(경희대학교)

EG-17 [09:55-10:15]

바이오 고분자의 직접적 광결정 패터닝에 의한 GFP의 형광증폭 / 김성환
(아주대학교, 에너지시스템학과 / 물리학과)

EG-18 [10:15-10:35]

Water Flow Kinematic Shock Analysis of Inverted U-type Pipes in PWR / LEE Seung-Chan, YOON Duk-Joo, HA Sang-Jun(한국수력원자력 중앙연구원 원자로안전연구소)

[EG4] 응용물리학과회 General Session

2013년 11월 1일 금요일 11:00 – 12:45

장소: 602호

좌장: 조 성 래 울산대

EG-19 [11:00-11:15]

Enhancement of Short Circuit Current in Organic Tandem Solar Cells / LEE Sang Bong, YOON Choon Sup, YOON Sung Cheol¹, KIM Pan Seok¹, PARK Sangman¹, LIM Jong Sun¹(KAIST. ¹KRICT)

EG-20 [11:15-11:30]

저온 대기압 플라즈마를 이용한 플렉시블 염료감응형 태양전지 제작 / 정희수, 박재영¹, 정현석², 최원호³(국방과학연구소, 화생방기술부. ¹5771 La Jolla Corona Drive, La Jolla, CA 92037, USA. ²성균관대학교, 신소재공학과. ³카이스트, 물리학과)

EG-21* [11:30-11:45]

Efficient Light Trapping and Carrier Collection in Nano-patterned Si Solar Cells / YUNAE Cho, GWON Minji, KIM Dong-Wook, KIM Joondong¹(Ewha Womans University, Department of Physics. ¹Incheon National University, Department of Electrical Engineering)

EG-22* [11:45-12:00]

Minority carrier transport in kesterite Cu₂ZnSnS₄ thin-film solar cells / KIM Gee Yeong, KIM Ju Ri, JEONG Ah Reum¹, WILLIAM Jo, LEE Ki Do², KIM Jin Young², NGUYEN Trang³, SHIN Hae-Young³, YOON SEOKHYUN³(Physics Department and New and Renewable Energy Research Center (NREC), Ewha Womans University. ¹Helmholtz-Zentrum Berlin. ²Korea Institute of Science and Technology. ³Department of Physics, Ewha Womans University)

EG-23* [12:00-12:15]

Investigating Zn-composition-tuned Cu₂ZnSn(S,Se)₄ Thin Film Solar Cell Absorber with Raman Spectroscopy / GANSUKH Mungunshagai, NAM Dahyun, SON Dae-ho¹, YANG Kee-Joeng¹, KANG Jin-Kyu¹, CHEONG Hyeonsik(Sogang University, Department of Physics. ¹DGIST, Green Energy Research Division)

EG-24* [12:15-12:30]

Studying etching treatment in Cu₂ZnSnS₄ thin films by Raman scattering spectroscopy / NGUYEN THI THU Trang, SHIN Hae-Young, KIM Gee Yeong, KIM Ju Ri, JO William, LEE Ki Doo¹, KIM Jin Young¹, YOON Seokhyun(Ewha Womans University, Department of Physics. ¹Korea Institute of Science and Technology)

EG-25* [12:30-12:45]

Computational study on layered CrS₂ toward a new anode material for Li-ion batteries / KANG Seoung-Hun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

SESSION F

통계물리학분과회

[FG1] 통계물리학분과회 General Session : 상전이와 임계현상

2013년 10월 30일 수요일 13:00 - 14:45

장소: 301호

좌장: 고 광 일 고려대

FG-01 [13:00-13:15]

액체 타이타늄의 고압하에서의 액체-액체 상전이 / 이근우, 이병찬(한국표준과학연구원, '경희대학교)

FG-02 [13:15-13:30]

Isostructural phase transition of 1,2,4,5-tetrabromobenzene ($C_6H_2Br_4$) jumping crystals studied by Brillouin light scattering / KO Jae-Hyeon, LEE Kwang-Sei¹, SAHOO Subash Chandra², NAUMOV Pance²(Department of Physics, Hallym University. ¹Department of Nano Systems Engineering, Center for Nano Manufacturing, Inje University. ²New York University Abu Dhabi)

FG-03* [13:30-13:45]

Surface Scaling with the Finite-Time and Finite-Size of the Globally-coupled Kuramoto Model / LEE Mi Jin, YI Su Do, KIM Beom Jun(Department of Physics, Sungkyunkwan University)

FG-04 [13:45-14:00]

Exact Partition Function Zeros of the Wako-Saito-Munoz-Eaton Protein Model / LEE Julian(숭실대학교 생명정보학과)

FG-05 [14:00-14:15]

Statistical mechanics of the coagulation-diffusion process with a stochastic reset / DURANG Xavier, HENKEL Malte¹, PARK Hyunggyu(KIAS. ¹U Nancy)

FG-06 [14:15-14:30]

Conductivity Jump in the Avoiding a Spanning Cluster Model / KIM sungmin, CHO young sul, ARAUJO nuno¹, KAHNG Byungnam(Seoul National University. ¹ETH Zurich)

FG-07* [14:30-14:45]

Ashkin-Teller Model on Scale-free Networks / JANG Siho, HWANG Sungmin, KAHNG Byungnam(Seoul National University)

[FG2] 통계물리학분과회 General Session : 통계역학

2013년 10월 30일 수요일 15:00 - 16:45

장소: 301호

좌장: 하 미 순 조선대

FG-08(초) [15:00-15:30]

Stochastic resonance in spin systems / BAEK Seung Ki, PARK Hye Jin¹, KIM Beom Jun¹(Department of Physics, Pukyong National University. ¹Department of Physics, Sungkyunkwan University)

FG-09 [15:30-15:45]

Discrete-time statistical mechanics / 김상락(경기대)

FG-10 [15:45-16:00]

Realistic Thermodynamic and Statistical-Mechanical Measures for Neural Synchronization / LIM Woochang, KIM Sang-Yoon¹(Daegu National University of Education, Department of Science Education. ¹LABASIS Corporation, Research Division)

FG-11 [16:00-16:15]

Topological property of networks in the structural classification of proteins / 김경식, 민승식(부경대학교, 물리학과. ¹해군사관학교)

FG-12* [16:15-16:30]

Impact of Link Overlaps in Multiplex Networks / 고광일, 이상철, 민병준, 이규민(고려대학교 물리학과)

FG-13* [16:30-16:45]

2D q-state Clock Models and the Stochastic Resonance / PARK Hye Jin, BAEK Seung Ki¹, KIM Beom Jun(Department of Physics, Sungkyunkwan University. ¹Department of Physics, Pukyong National University)

[FG3] 통계물리학분과회 General Session : 생물물리 및 복잡계

2013년 10월 31일 목요일 09:00 - 10:45

장소: 301호

좌장: 박 혁 규 부산대

FG-14(초) [09:00-09:30]

Nanoscale Self-Assemblies of Biological Molecules: Structures and Interactions of Protein Nanotubes / 최명철(Dept. of Bio and Brain Engineering, KAIST)

FG-15 [09:30-09:45]

Bundling in brushes of directed and semiflexible polymers /

BENETATOS Panayotis, TERENTJEV Eugene¹, ZIPPELIUS Annette²(Department of Physics, Kyungpook National University. ¹Cavendish Laboratory, University of Cambridge. ²Institute for Theoretical Physics, University of Goettingen)

FG-16 [09:45-10:00]

Local and global denaturation in DNA with repetitive sequences /

성우경, 이오철(포항공과대학교, 물리학과)

FG-17 [10:00-10:15]

Stable and flexible system for glucose homeostasis / 홍현숙, 조정효¹,

신상진²(전북대학교, 물리학과. ¹APCTP; 포항공대, 물리학과. ²한양대학교, 물리학과)

FG-18 [10:15-10:30]

Backbone chromatography: the color of dynamical brain states based on dynamical motifs and network backbones / SHIN

Jeongkyu, KIM Seunghwan(Pohang University of Science and Technology, Department of Physics)

FG-19* [10:30-10:45]

Conflicts in a real network of like and dislike links / YI Su Do,

PARK Hye Jin, KIM Dae Joong¹, KIM Beom Jun(Department of Physics, Sungkyunkwan University. ¹Institute for Conflict Healing, Dongguk University)

SESSION G

물리교육분과회

[GG1] 물리교육분과회 General Session

2013년 10월 30일 수요일 16:00 - 17:40

장소: 606호

좌장: 박 종 원 전남대

GG-01 [16:00-16:20]

MATLAB을 이용한 물리 시뮬레이션 / 김영태(아주대학교 물리학과)

GG-02 [16:20-16:40]

Hertz's Experiment For DBL Course / LEE Jong Duk, RYU Chang-Mo

(포항공과대학교, 물리학과)

GG-03 [16:40-17:00]

Thevenin Equivalents for Inhomogeneous Ladder Networks of Generators / HONG Seok-In, CHOI Je-Young¹(경인교육대학교, 과학교육과.

¹영동대학교, 임베디드소프트웨어학과)

GG-04 [17:00-17:20]

속도와 가속도 개념 변화를 위한 3D 가상현실 역학 모의실험 개발 / 오원근, 류관희¹, 정지성²(충북대학교 물리교육과. ¹충북대학교)

GG-05 [17:20-17:40]

중등 물리교사의 실험실 수업 능력 개선의 한 가지 방안: POCOM의 2회 연속 적용 효과 / 김영민, 박종원¹, 박종석², 정진수³, 박영산⁴(부산대학교 물리교육과. ¹전남대학교 물리교육과. ²경북대학교 화학교육과. ³대구대학교 생물교육과. ⁴조선대학교 지구과학교육과)

[GF1] 물리교육분과회 Focus Session

2013년 10월 31일 목요일 09:00 - 10:40

장소: 606호

좌장: 오 원 근 충북대

GF-01 [09:00-09:20]

고등학교 과학과목 선택에 따른 대학에서의 물리 수업의 어려움 / 손정우(경상대학교 물리교육과)

GF-02 [09:20-09:40]

사범대학 자연계열 학생들의 '대학 일반물리학' 학습준비도 / 김영민(부산대학교 물리교육과)

GF-03 [09:40-10:00]

고등학교 물리 이수가 대학의 이공계 관련 학과 학업에 미치는 영향에 대한 정성적 고찰 / 강남화, 이화연(한국교원대학교)

GF-04 [10:00-10:20]

2009 개정 물리과목의 영향과 중등 물리교육 기반 개선을 위한 물리인증제의 역할과 전망 / 오원근(충북대학교 물리교육과)

GF-05 [10:20-10:40]

과학기술시대의 대학물리교육의 문제에 대한 이해: 사례를 중심으로 / 이경호(서울대학교)

[GG2] 물리교육분과회 General Session

2013년 10월 31일 목요일 11:40 - 13:00

장소: 606호

좌장: 임 성 민 대구대

GG-06 [11:40-12:00]

KTOP(Korean Teaching Observation Protocol)을 이용한 물리수업 개선을 위한 연수 프로그램의 개발과 시행 / 박종원, 김영민¹, 박영선², 정진수³, 박종석⁴(전남대학교, ¹부산대학교, ²조선대학교, ³대구대학교, ⁴경북대학교)

GG-07 [12:00-12:20]

2009 개정 물리 교육과정의 성취 기준 진술에 사용된 행위 동사의 특징 / 조광희(조선대학교, 물리교육과)

GG-08 [12:20-12:40]

일반물리학 강좌 중 소집단 기반 평가에서 나타나는 집단 지성의 유형 / 유준희, MAZUR Eric¹, MILLER Kelly¹, LAURA Tucker¹, CAROLANN Koleci¹(서울대학교 물리교육과, ¹Harvard University, Applied Physics)

GG-09 [12:40-13:00]

휴대폰의 센서를 이용한 일반계 고등학생의 물리 R&E 결과 / 이승우, 김영민(부산대학교, 물리교육과)

[GG3] 물리교육분과회 General Session

2013년 10월 31일 목요일 14:00 - 15:40

장소: 606호

좌장: 최 재 혁 전남대

GG-10* [14:00-14:20]

중학교 과학영재의 동료교수과정에서 비유의 역할 분석 / 박혜정(한국교원대학교)

GG-11* [14:20-14:40]

예비 물리교사들의 물리내용에 관한 논증: 구두 논증과 글로 쓴 논증의 비교 / 이은경, 강남화(한국교원대학교 물리교육과)

GG-12* [14:40-15:00]

중등학생들의 대중 매체에서 보고되는 과학 정보의 타당성에 대한 판단 과정 분석 / 강남화, 이은미(한국교원대학교, 물리교육과)

GG-13* [15:00-15:20]

일반 물리학 교재에 나타난 과학사적 구조의 서술 방식 분석: 원자의 구조 단원을 중심으로 / 권상운, 이경호(서울대학교, 물리교육과)

GG-14* [15:20-15:40]

과학적 문제발견에서 전문가와 초심자의 발견법과 편향성 / 이지원, 김중복(한국교원대학교)

[GS1] 물리교육분과회 Special Session

2013년 10월 31일 목요일 16:00 - 17:00

장소: 606호

좌장: 손 정 윤 경상대

GS-01 [16:00-16:15]

물리탐구지도의 방법으로서 과학경연 및 공연의 활용 / 임성민(대구대학교, 물리교육과)

GS-02 [16:15-16:30]

스마트폰 어플리케이션을 이용한 과학영재의 맥놀이, 도플러 효과 실험 수업 / 권태영, 최재혁(전남대학교, 물리교육과)

GS-03 [16:30-16:45]

무지개를 활용한 일반물리 수업의 전략 / 이봉우, 김희경(단국대학교, 과학교육과, ¹강원대학교, 과학교육학부)

GS-04 [16:45-17:00]

설득하는 물리 수업 / 안종제(덕수고등학교)

SESSION H

플라스마물리학분과회

[HG1] 플라스마물리학분과회 General Session

2013년 10월 31일 목요일 14:00 - 15:45

장소: 604호

좌장: 남 용 운 핵융합연

HG-01(초) [14:05-14:35]

The first stage Installation of a Compact Linear Accelerator at KBSI / WON Mi-Sook, LEE Byoung-Seob, CHOI Seyong, OK Jung-Woo, PARK Jin Yong, SHIN Chang Seouk, YOON Jang-Hee(Korea Basic Science Institute)

HG-02 [14:35-15:00]

레이저-플라즈마를 이용한 하전입자 가속에 대한 전산모사 연구 / 배기홍, 김철만, 김이중, 김형택, 정태문, 남창희(광주과학기술원 고등광기술연구소, ¹광주과학기술원 고등광기술연구소, 기초과학연구원 초강력 레이저과학 연구단, ²광주과학기술원 물리광학과, 기초과학연구원 초강력 레이저과학 연구단)

HG-03 [15:00-15:25]

Spatially Resolved Thomson Scattering in Electron Wakefield Acceleration / SINGHAL HIMANSHU, KIM Hyung Taek¹, KIM I Jong¹, PAE Ki Hong², SUNG Jae Hee³, LEE Seong Ku³, JEONG Tae Moon³, NAM Chang Hee⁴(Center for Relativistic Laser Science, Institute for Basic Science, ¹Center for Relativistic Laser Science, Institute for Basic Science, Advanced Photonics Research Institute, GIST, ²Advanced Photonics Research Institute, GIST, ³Center for Relativistic Laser Science, Institute for Basic Science, Advanced Photonics Research Institute, GIST, ⁴Center for Relativistic Laser Science, Institute for Basic Science, Dept. of Physics and Photon Science, GIST)

HG-04 [15:25-15:45]

CdO:Al 박막의 성장 변수가 미치는 영향 / 양소명, 정진, 이봉주(조선대학교 물리학과, 광주 501-759)

[HG2] 플라스마물리학분과회 General Session

2013년 10월 31일 목요일 16:00 - 17:00

장소: 604호

좌장: 이 봉 주 조선대

HG-05(초) [16:00-16:30]

핵융합로 구조재료를 위한 니켈의 수소·중수소 투과특성 비교 연구 / 이석관, 온연길, 이주호, 김희수, 노승정(단국대학교 죽전캠퍼스 응용물리학과, 나노센서바이오텍 연구소, 용인 448-701)

HG-06(초) [16:30-17:00]

KSTAR 플라즈마 밀도 요동 분석을 위한 리튬빔 방사 분광기 개발 / 남용운, ANDA Gabor¹, LAMPERT Mate¹, KRIZSANOCZI Tibor¹, NEMETH Jozsef¹, 위한민, 왕선정, ZOLETNIK Sador¹(국가핵융합연구소, ¹Wigner RCP)

SESSION I

광학 및 양자전자학분과회

[IG1] 광학 및 양자전자학분과회 General Session

2013년 10월 30일 수요일 13:00 - 14:30

장소: 601호

좌장: 유 난 이 광주과학기술원

IG-01 [13:00-13:15]

Experimental demonstration of a delayed-choice quantum walk / JEONG Youn-Chang, FRANCO Carlo Di¹, LIM Hyang-Tag, KIM Myung-Shik², KIM Yoon-Ho(POSTECH, 물리학과. ¹Queen's university Belfast. ²Imperial College London)

IG-02* [13:15-13:30]

Observing Detection-dependent Multi-photon Coherence Times / RA Young-Sik, TICHY Malte¹, LIM Hyang-Tag, KWON Osung, MINTERT Florian², BUCHLEITNER Andreas², KIM Yoon-Ho(POSTECH, Physics. ¹University of Aarhus, Department of Physics and Astronomy. ²Albert-Ludwigs- Universitat, Physikalisches Institut)

IG-03* [13:30-13:45]

Nonclassical Narrowband Biphoton Generation from a Cold Rubidium Ensemble / PARK Kwang-Kyoon, CHO Young-Wook, LEE Jong-Chan, KIM Yoon-Ho(Pohang University of Science and Technology, Department of Physics)

IG-04* [13:45-14:00]

Experimental Implementation of an Approximate Transpose for Qutrit Systems / LIM Hyang-Tag, KIM Yong-Su, RA Young-Sik, BAE Joonwoo¹, KIM Yoon-Ho(Pohang University of Science and Technology, Department of Physics. ¹National University of Singapore, Center for Quantum Technologies)

IG-05* [14:00-14:15]

Evidences for Niels Bohr's fluidic surface oscillation theory: surface mapping and resonance mode dynamics of an asymmetric liquid microjet cavity / MOON Songky, SHIN Younghoon, KWAK Hojeong, KIM Soyun, AN Kyungwon, YANG Juhee¹, LEE Sang-Bum²(School of Physics and Astronomy, Seoul National University. ¹Russia Science Seoul, Korea Electrotechnology Research Institute. ²Korea Research Institute of Standards and Science)

IG-06 [14:15-14:30]

포인팅벡터로 구현한 편광진행파의 MATHEMATICA 플랫폼제작과 그 운

용 / 윤희중, 조동래, 김보임, 최용대¹(KISTI. ¹목원대 미생물나노소재학과)

[IG2] 광학 및 양자전자학분과회 General Session

2013년 10월 30일 수요일 15:00 - 15:45

장소: 601호

좌장: 안 영 환 아주대

IG-07 [15:00-15:15]

Terahertz Beat Frequency Generation from Two-mode Lasing Operation of Coupled Microdisk Laser / 유정완, 조진항¹, 김철민¹, SHINOHARA Susumu², 김상욱(부산대학교. ¹서강대학교. ²NTT Corporation)

IG-08* [15:15-15:30]

테라파 1 nm 슬릿에서의 전기장 집속 경향 / 김대식, 한상훈¹, 박영미, 박남규¹(서울대학교, 물리천문학부. ¹서울대학교, 전기공학부)

IG-09* [15:30-15:45]

Terahertz Nano Antenna Enabled Phase Transition Temperature Shift on Vanadium Dioxide / 김대식, 정영균, 최재욱, 경지수, 박형렬, 한상훈, 박남규, 이근형¹, 이기주², 김봉준³, 김현탁⁴(서울대학교 물리천문학부. ¹서울대학교 전기공학부. ²충남대학교 물리학과. ³ETRI)

[IG3] 광학 및 양자전자학분과회 General Session

2013년 10월 30일 수요일 17:00 - 17:45

장소: 601호

좌장: 안 영 환 아주대

IG-10* [17:00-17:15]

CLSM을 이용한 다양한 파장에서의 V2O5 박막의 나노로드 관측 / 김태성, 홍동혁, 강만일, 김석원(울산대학교, 물리학과)

IG-11* [17:15-17:30]

FCS에 의한 형광입자 크기에 따른 온도 의존성 연구 / 정찬배, 이재란, 김석원(울산대학교, 물리학과)

IG-12* [17:30-17:45]

Measurement of Large Optical Transmission Matrices of Complex Media / YU Hyeonseung, PARK YongKeun(KAIST)

[IG4] 광학 및 양자전자학분과회 General Session

2013년 10월 31일 목요일 09:00 - 10:15

장소: 601호

좌장: 이 중 욱 전남대

IG-13 [09:00-09:15]

Temporal contrast enhancement of high-power femtosecond laser pulses by using two saturable absorbers / 성재희, 이성구, 정태문, 남창희(기초과학연구원 초강력 레이저과학 연구단, 광주과학기술원 고등광기술 연구소, '기초과학연구원 초강력 레이저과학 연구단, 광주과학기술원 물리광과학과)

IG-14 [09:15-09:30]

Field-dependent ferroelectric domain wall motion in MgO doped stoichiometric lithium niobate crystal / 유난이, 최주원, 고도경, 노정훈(광주과학기술원, 고등광기술연구소, '광주과학기술원, 물리 광과학과, '부산대학교, 의공학과)

IG-15* [09:30-09:45]

넓은 시야각과 밝은 재구성 이미지를 표현할 수 있는 공간빛변조기-위상 마스크 헤테로 구조를 이용한 저가의 실시간 홀로그래픽 디스플레이 / 최재우, 정훈(경희대학교 정보디스플레이학과)

IG-16* [09:45-10:00]

Multimodal nonlinear optical microscopy with coherent anti-Stokes Raman scattering(CARS), two-photon excitation fluorescence (TPEF), and second harmonic generation (SHG) microscopy for biomedical tissue imaging / 이장혁, 김중철, 태기웅, 오명규, 고도경(광주과학기술원, 물리광과학과, '광주과학기술원, 나노바이오재료 전자공학과, '광주과학기술원, 고등광기술연구소, '광주과학기술원, 물리광과학과, 고등광기술연구소)

SESSION J

원자 및 분자물리학분과회

[JP1] 원자 및 분자물리학분과회 Pioneering Symposium : Applications and generation of ultra-cold atom and molecule

2013년 10월 30일 수요일 11:00 - 12:40

장소: 604호

좌장: 김 진 태 조선대

후원: 서울대학교 거시양자제어연구단

조선대학교 디자인공학과(산업융합특성화 인재양성사업단)

* Session in English

JP-01 [11:00-11:35]

Manipulating Atomic and Photonic Qubits using Rydberg Blockade Quantum Communications with Gaussian and non-Gaussian States of Light / GRANGIER Philippe(Laboratoire Charles Fabry, Institut d'Optique, 91127 Palaiseau, France)

JP-02 [11:35-12:05]

Thermal phase fluctuations and vortex pairs in a quasi-2D Bose gas / SHIN Yong-il(Seoul National University)

JP-03 [12:05-12:40]

The hundredth anniversary of Bohr's atoms and molecules: Contraria sunt complementa / JEUNG Gwang-Hi(Aix-Marseille University, CTOM, ISM2 (CNRS UMR7313), Marseille, France)

[JP2] 원자 및 분자물리학분과회 Pioneering Symposium : Applications and generation of ultra-cold atom and molecule

2013년 10월 30일 수요일 14:00 - 15:05

장소: 604호

좌장: 김 동 희 광주과기원

후원: 서울대학교 거시양자제어연구단

조선대학교 디자인공학과(산업융합특성화 인재양성사업단)

* Session in English

JP-04 [14:00-14:30]

Diffraction Experiment using Bose-Einstein Condensate / KIM Jung Bog, KIM Seung Jin(한국교원대학교 물리교육과)

JP-05 [14:30-15:05]

Crossed-beam inelastic scattering experiments at energies approaching the cold regime / CHEFDEVILLE Simon, HICKSON Kevin, BERGEAT Astrid, COSTES Michel, NAULIN Christian(Universite de Bordeaux, CNRS UMR 5255, Institut des Sciences Moleculaires, 33400 Talence, France)

[JP3] 원자 및 분자물리학과회 Pioneering Symposium : Applications and generation of ultra-cold atom and molecule

2013년 10월 30일 수요일 15:20 - 16:55

장소: 604호

좌장: 신 용 일 서울대

후원: 서울대학교 거시양자제어연구단

조선대학교 디자인공학과(산업융합특성화 인재양성사업단)

* Session in English

JP-06 [15:20-15:50]

Ultracold Atoms in Two-dimensional System / MUN Jongchul, NOH Jiho, LEE Jeongwon(KRISST)

JP-07 [15:50-16:25]

Nuclear spin conversion in hydrogenated molecules of astrophysical interest: the state of art / CACCIANI Patrice(Laboratoire de Physique des Lasers, Atomes et Molécules (CNRS UMR8523), University Lille 1, Villeneuve d'Ascq, France)

JP-08 [16:25-16:55]

Exotic paired states of ultracold atomic Fermi gases in optical lattices / KIM Dong-Hee(GIST, Department of Physics and Photon Science)

[JG1] 원자 및 분자물리학과회 General Session : 원자/분자 데이터

2013년 10월 30일 수요일 17:00 - 18:30

장소: 604호

* Session in English

좌장: 권 덕 희 KAERI

JG-01 [17:00-17:15]

원자/분자 데이터베이스의 현황과 응용 / 이용주, 권덕희(한국원자력연구원, 원자력데이터개발검증센터)

JG-02 [17:15-17:30]

메탄분자의 전자산란단면적 평가 / 송미영, 윤정식, 조혁¹, 국제협력팀²(국가핵융합연구소, ¹충남대, ²국제협력팀)

JG-03 [17:30-17:45]

과학데이터의 출판 및 KISTI의 데이터 리파지토리 P-CUBE의 소개 / 이상호, 김선태, 이승복(한국과학기술정보연구원 과학기술데이터연구실)

JG-04 [17:45-18:00]

Recent Joint Activities of KAERI & GTEC on Atomic Collision Data / 권(KWON) 덕희(Duck-Hee), 김(KIM) 대성(Dae-Soung)¹(KAERI, Nuclear Data Center, ¹GTEC, Dept. of e-Business)

JG-05 [18:00-18:15]

측정결과의 신뢰성과 국가참조표준 / 김창근(National center for standard reference data, Korea Research Institute of Standards and Science)

JG-06 [18:15-18:30]

Atomic and Molecular Data Research for Plasma Applications / YOON Jung-Sik, DCP members(National Fusion Research Institute, Data Center for Plasma Properties)

원자 및 분자물리학과회 총회

2013년 10월 31일 목요일 18:00 -

장소: 604호

좌장: 김 진 태 조선대

[JG2] 원자 및 분자물리학과회 General Session : Cold Atom

2013년 10월 31일 목요일 09:00 - 10:45

장소: 604호

좌장: 노 흥 렬 전남대

JG-07 [09:00-09:15]

Dissipative preparation of phase- and number-squeezed states with ultracold atoms / WATANABE Gentaro, CABALLAR Roland Cristopher F.¹, DIEHL Sebastian², MAKELA Harri³(APCTP, POSTECH, ¹APCTP, University of KwaZulu-Natal, University of the Philippines, ²University of Innsbruck, ³Aalto University)

JG-08 [09:15-09:30]

Kinetic Phase Transition with Global Coupling in Resonantly Driven Atomic Trap / MOON GEOL, KIM YONGHEE¹, HEO MYOUNG-SUN², AHN DAEGUN, PARK JINA, SHIN SOYOUNG, NOH HEUNG-RYOUL³, JHE WONHO(Department of Physics and Astronomy, Seoul National University, ¹Quantum Optics Division, Korea Atomic Energy Research Institute, ²Korea Research Institute of Standards and Science, ³Department of Physics, Chonnam National University)

JG-09* [09:30-09:45]

A "Leakage-free" Two-level Rabi Oscillation in an Equally Spaced Ladder System / 한혁상, 김휘동, 박진신, 조동현(고려대학교, 물리학과)

JG-10 [09:45-10:00]

Coherent Population Trapping between Zeeman Sublevels using M1 Interactions / 김휘동, 한혁상, 조동현(고려대학교, 물리학과)

JG-11* [10:00-10:15]

Observation of the Negative Mandel Q as Low as -0.5 in the

Cavity-QED Microlaser / SONG Younghoon, AN Kyungwon(서울대학교 물리천문학부)

JG-12* [10:15-10:30]

Fate of Topology in Spin-1 Spinor Bose-Einstein Condensate / OH Yun-Tak, KIM Panjin, PARK Jin-Hong, HAN Jung Hoon(Sungkyunkwan University)

JG-13* [10:30-10:45]

Fate of Topology in Spin-1 Spinor Bose-Einstein Condensate: Temporal Dynamics / OH Yun-Tak, KIM Panjin, PARK Jin-Hong, HAN Jung Hoon(Sungkyunkwan University)

[JG3] 원자 및 분자물리학회 General Session : Atomic and Molecular Physics

2013년 10월 31일 목요일 11:00 - 12:15

장소: 604호

좌장: 김 대 성 경기과기대

JG-14 [11:00-11:15]

준고전적 보미안 궤적의 적용: 강한 레이저에 의한 일차원 원자모형의 이온화 / 최낙렬, 변창우, 이민호, 김대성(금오공대 교양교직과정부, '경기과학기술대학 e-비즈니스과)

JG-15 [11:15-11:30]

Effects Of Periodic Modulation On Atom-molecule Conversion / YI Sangyong, KIM Sang Wook'(Department of Physics, Pusan National University, 'Department of Physics Education, Pusan National University)

JG-16 [11:30-11:45]

전자기 유도 투과 매질에 의한 편광된 빛의 이차상관 관계 / 정택, 이희정, 문한섭(부산대학교, 물리학과)

JG-17* [11:45-12:00]

Do we really need "free will" to validate the Bell inequality? / KIM Minsu, KIM Sang Wook'(부산대학교 물리학과, '부산대학교 물리교육과)

JG-18 [12:00-12:15]

Charge Polarization/Accumulation in Sub-Nano Space and Catalytic Functions achieved by Uni-Size Metal Cluster Disk Constructed on Solid Substrate / YASUMATSU Hisato(Toyota Technological Institute, Cluster Research Laboratory)

[JG4] 원자 및 분자물리학회 General Session : Precision Measurement and Ion Trap

2013년 11월 1일 금요일 09:00 - 10:30

장소: 604호

좌장: 박 창 용 표준원

JG-19 [09:00-09:15]

Search for a Permanent Electric Dipole Moment of Ra-225 / PARK Sung Jong, SHIN Taeksu, KIM Yong Kyun, KIM Sun Kee(Institute for Basic Science)

JG-20 [09:15-09:30]

Statistical uncertainty of ion cyclotron resonance detection in Penning trap / PARK Young-Ho, YOON Jin Woo, IM Kang-Bin, KIM Gi Dong, KIM Yong Kyun(Institute for Basic Science)

JG-21 [09:30-09:45]

원자분수 1차 주파수 표준기 KRISS-F1 개발 현황 / 박상언, 허명선, 권택용, 이상범, GIBBLE Kurt', 박창용, 이원규, 유대혁(한국표준과학연구원, 'The Pennsylvania State University, Department of Physics)

JG-22 [09:45-10:00]

Development of an Ion Trap System for Scalable Quantum Information Processing / YOON Jong Keon, AHN Junsik, KIM Min Hyung, KIM Jang Myeon, KIM Taehyun, BYOUNG-DOO Choi', SEOKJUN Hong', MINJAE Lee', DONGIL Cho'(SK telecom, Quantum Technology Lab, 'Seoul National University, ASRI/ISRC, School of Electrical Engineering and Computer Sciences)

JG-23 [10:00-10:15]

Simulation of N-body interaction in the sympathetic cooling process using GPU / IM Kang-Bin, PARK Young-Ho, KIM Jae Cheon, YOON Jin Woo, KIM Gi Dong, KIM Yong Kyun(Institute for Basic Science)

JG-24 [10:15-10:30]

RAON 가속기를 위한 고분해능 다중 반사 비행시간형 질량 분석기 설계 / 윤진우, 박영호, 임강빈, 김기동, 김용균(기초과학연구원, 중이온가속기구축사업단)

[JG5] 원자 및 분자물리학분과회 General Session : Quantum Information

2013년 11월 1일 금요일 10:45 - 12:15

장소: 604호
좌장: 최 재 민 전북대

JG-25 [10:45-11:00]

Numerical Analysis of a Cascaded 3-Level Qubit in a Resonator /
CHOUGH Young-Tak, CHO Sung Un¹, KIM Nam¹(광주대학교 광통신/보건의료
공학과, ¹한국표준연구원)

JG-26 [11:00-11:15]

Spectroscopy of Superconducting Transmon Qubit in Circuit QED
Structure / CHONG Yonuk, HA Dong-Gwang, SHIM Seung-Bo, PARK
Gwan Yeol¹, PARK Jung Hwan, SONG Woon, LEE Soon Gul¹(Korea Research
Institute of Standards and Science, ¹Korea University)

JG-27 [11:15-11:30]

Two-photon Rabi Oscillations in Superconducting Transmon
Qubit / HA Dong-Gwang, SHIM Seung-Bo, PARK Jung Hwan, SONG Woon,
CHONG Yonuk(Korea Research Institute of Standards and Science)

JG-28 [11:30-11:45]

Ultrafast quantum gates implemented by tailored laser pulses /
LIM Jongseok, LEE Han-gyeol, KIM Hyosub, AHN Jaewook(KAIST, Dept. of
Physics)

JG-29* [11:45-12:00]

Complete analysis for three-qubit mixed-state discrimination /
하동훈, 권영현(한양대학교 응용물리학과)

JG-30* [12:00-12:15]

Optimal Work Condition of Quantum Szilard Engine in The
Context of Non-equilibrium Thermodynamics / 전희준, 김상욱(부산
대학교 물리학과, ¹부산대학교 물리교육과)

SESSION K

반도체물리학분과회

[KG1] 반도체물리학분과회 General Session

2013년 10월 30일 수요일 11:00 - 12:45

장소: 607호
좌장: 홍 진 표 한양대

KG-01 [11:00-11:15]

투명 전도성 전극 활용을 위한 그래핀의 AuCl₃, AgNO₃, 및 Benzyl
Viologen 도핑 특성 연구 / 신동희, 이경원, 이재성, 김주환, 김성, 최석호(경
희대 응용물리학과)

KG-02 [11:15-11:30]

그래핀 p-n 수직 접합의 제작 및 특성 연구 / 김창오, 신동희, 김주환, 김종
민, 김성, 최석호(경희대 응용물리학과)

KG-03* [11:30-11:45]

Transport Control of LaAlO₃/SrTiO₃ Heterointerface via Surface
Charge Modification / KIM Haeri, MOON Seon Young¹, KIM Shin-Ik¹,
BAEK Seung-Hyub¹, JANG Ho Won², KIM Dong-Wook(Ewha Womans
University, Department of Physics, ¹Korea Institute of Science and Technology,
²Seoul National University, Department of Materials Science and Engineering)

KG-04 [11:45-12:00]

대면적 그래핀/실리콘 나노선의 수직 융복합 구조 및 분자센서로의 응용 /
김정길, 신동희, 김성, 최석호(경희대학교 응용물리학과)

KG-05* [12:00-12:15]

단락, 개방회로를 통한 질화물계열 LED의 비발광효율의 정량적 분석 / 조
용훈, 임승혁, 고영호(한국과학기술원, 물리학과)

KG-06* [12:15-12:30]

산소 플라즈마 전처리 기법에 의한 n-ZnO/p-Si 이종접합 다이오드의 특
성 개선 / 김창민, 이창호, 이병호, 허성은, 이세준, 이영민, 김득영(동국대학교
반도체과학과)

KG-07* [12:30-12:45]

High Aspect Ratio 3차원 화합물반도체 구조 제작을 위한 비등방성 화
학 식각기술 연구 / 송윤원, 오정우(연세대학교 글로벌융합공학과)

K

[KG2] 반도체물리학회 General Session

2013년 10월 30일 수요일 13:00 - 14:45

장소: 607호
좌장: 김 형 상 동국대

KG-08* [13:00-13:15]

태양전지 소자 응용을 위한 PTB7:PCBM 박막의 유전율 함수 변화 연구 / 박한결, DIWARE Mangesh S., 김태중, 변준석, BARANGE Nilesh S., 김준영, 강유리, 김영동(경희대학교 물리학과 및 나노광물성 연구실)

KG-09* [13:15-13:30]

Effect of relaxed strain on emission properties of InGaN/GaN multi-quantum wells with self-assembled Pt nanoclusters / PARK Ah Hyun, LEE Seul Be, SEO Tae Hoon, LEE Gun Hee, SHIN Gang U, KIM Bo Kyoung, JEONG Hyun Jun, SUH Eun-Kyun(School of Semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Chonbuk National University)

KG-11* [13:30-13:45]

Experimental observation of In-rich cluster in InGaN/GaN Multiple Quantum Wells Grown on GaN and Sapphire Substrates / JEONG Hyun Jun, JEONG Hyun¹, SUH Eun Kyung, JEONG Mun Seok¹(School of Semiconductor and Chemical Engineering, Chonbuk National University, Jeonju 561-756, Republic of Korea. ¹Center for Integrated Nanostructure Physics, Institute of Basic Science, Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Republic of Korea)

KG-12* [13:45-14:00]

전기영동법을 이용한 VO₂ 나노-금속 나노입자 구조 제작 / 김길호, 이인열, 조민재(성균관대학교 전기전자공학과, ¹성균나노기술원)

KG-13* [14:00-14:15]

Rotating-frame ¹H NMR Study of Hydrogen Donors in ZnO / PARK JUN KUE, LEE Kyu Won, LEE Cheol Eui, NOH S. J.¹, KIM H. S.¹(Department of Physics and Institute for Nano Science, Korea University, Seoul 136-713, Republic of Korea. ¹Department of Applied Physics, Dankook University, Yongin 448-701, Republic of Korea)

KG-14* [14:15-14:30]

Layout Design by applying DFM utilizing Etch Dummy Gate Poly to improve the CD Process Variation of Channel' s Gate Poly / LEE Gwanguk, NAM JeongSik¹, KWON Hyuckjoon¹(Samsung Institute of Technology, School of Semiconductor Engineering. ¹Samsung Electronics, DRAM Design Department)

[KP1] 반도체물리학회 Pioneer Symposium : 열전반도체의 재료물리

2013년 10월 30일 수요일 15:00 - 16:45

* Session in English

장소: 607호

좌장: 이 종 수 경희대

KP-01(초) [15:00-15:30]

Enhancement of Thermoelectric Properties of PbTe-based Compounds through Nano-structuring and Dopant Redistribution / 오만욱, 박종호, 박수동, 김봉서, 민복기, 이희웅(한국전기연구원)

KP-02(초) [15:30-16:00]

Enhancing the Thermoelectric Properties of Layered Transition-Metal Dichalcogenides 2H-MQ₂ (M = Mo, W; Q = S, Se, Te) by Layer Mixing / 심지훈, 이창훈, 홍지숙, WHANGBO Myung-Hwan¹(포항공과대학교, 화학과. ¹North Carolina State University)

KP-03(초) [16:00-16:30]

Optimal carrier concentration in thermoelectrics / PEI Yanzhong (Tongji University, School of Materials Science and Engineering)

KP-04 [16:30-16:45]

Enhanced Thermoelectric Properties of p-type Quaternary AgxBi_{0.55}b_{1.5-x}Te_{3-x} Alloys Prepared by Hot Pressing / 송유장, 이종수, 박수동¹, 김봉서¹(경희대학교 응용물리학과, ¹한국전기연구원)

[KP2] 반도체물리학회 Pioneer Symposium : 열전반도체의 재료물리

2013년 10월 30일 수요일 17:00 - 18:00

* Session in English

장소: 607호

좌장: 오 민 욱 전기연

KP-05(초) [17:00-17:30]

Abnormal thermoelectric properties in copper selenide / SHI Xun, ZHANG Wenqing, CHEN Lidong(Shanghai Institute of Ceramics, Chinese Academy of Sciences)

KP-06* [17:30-17:45]

Thermoelectric Properties of the Pt silicide/silicon Laminate Structured p-type Devices / CHOI Wonchul, JUN Dongseok¹, KIM Soojung², JEON Hyojin², SHIN Mincheol, JANG Moongyu²(KAIST. ¹ETRI. ²ETRI, UST)

KP-07* [17:45-18:00]

(BiSe)_{1.09} TaSe₂ Misfit layer와 TaSe₂ 복합체의 열전효과 / 이종수, 김진희, 송유장(경희대학교 응용물리학과)

[KT1] 반도체물리학회 Tutorial : 양자역학을 이용한 컴퓨터 개발: 양자컴퓨터

2013년 10월 30일 수요일 18:00 - 19:00

장소: 607호

KT-01(초) [18:00-19:00]

양자역학을 이용한 컴퓨터 개발: 양자 컴퓨터 / 임현식(동국대학교 물리반도체과학부)

[KG3] 반도체물리학회 General Session

2013년 10월 31일 목요일 09:30 - 10:45

장소: 607호

좌장: 김 용 동아대

KG-15 [09:30-09:45]

Dark and illuminated current-voltage characteristics of InAs/InGaAs sub-monolayer quantum dot solar cell / 한임식, 박동우, 김중수¹, 김진수², 김준오³, 노삼규(한국표준과학연구원 나노소재평가센터. ¹영남대학교 물리학과. ²전북대학교 신소재공학부. ³Department of Electrical and Computer Eng., Univ. of New Mexico)

KG-16 [09:45-10:00]

Sns 촉매를 이용해 성장된 DdS 나노선의 선택적 VLS 결정성장 / 송만석, 김형수, 김용(동아대학교 신소재물리학과)

KG-17 [10:00-10:15]

Control Manipulations Of Graphene Oxide Nanostructures With Dielectrophoresis / WANG Jianwei, SUN Jingming, SINGH Budhi¹, KIM Gil-Ho(성균관대학교 전자전기공학부. ¹성균관대학교 성균나노과학기술원)

KG-18 [10:15-10:30]

Single Electron Spin bound to a Fluorine donor in ZnSe QWs Nanostructures as Qubits for Quantum information science / 김영민, SLEITER, D. J.¹, YAMAMOTO, Y.², 박병국, PAWLIS, A.³(KAIST, 신소재 공학과. ¹Stanford University, E. L. Ginzton Laboratory. ²National Institute of Informatics, Japan. ³University of Paderborn, Department of Physics)

KG-19 [10:30 10:45]

Lift-off of epitaxial layer upon high-temperature regrowth of porous n-GaN / KANG Jin-Ho, EBAID Mohamed, LEE Seung-Min, RYU Sang-Wan(Department of Physics, Chonnam National University)

[KP3] 반도체물리학회 Pioneer Symposium : 열전반도체의 재료물리

2013년 10월 31일 목요일 11:00 - 12:30

장소: 607호

* Session in English

좌장: 심 지 훈 포항공대

KP-08(초) [11:00-11:30]

Nanostructured Bulk Thermoelectric Materials for Enhanced Performance / 김성진(이화여자대학교, 화학과)

KP-09(초) [11:30-12:00]

Ballistic to Diffusive Crossover of Heat Flow in Graphene Ribbons / BAE Myung-Ho(Korea Research Institute of Standards and Science, Daejeon, Republic of Korea)

KP-10 [12:00-12:15]

Density of State Effective Mass and Related Charge Transport Properties in K-doped BiCuOSe / LIM Young Soo, LEE Dong Sun¹, AN Tae-Ho², JEONG Mahn, CHOI Hyoung-Seuk, SEO Won-Seon, PARK Cheol-Hee³, PARK Chan⁴, PARK Hyung-Ho⁵(Korea Institute of Ceramic Engineering and Technology. ¹Yonsei University, Department of Materials Science and Engineering / Korea Institute of Ceramic Engineering and Technology. ²Seoul National University, Department of Materials Science and Engineering / Korea Institute of Ceramic Engineering and Technology. ³LG Chem, Research Park. ⁴Seoul National University, Department of Materials Science and Engineering. ⁵Yonsei University, Department of Materials Science and Engineering)

KP-11* [12:15-12:30]

Thermoelectric properties of SrTiO3 nano-particle dispersed Indium Selenide bulk composites / 이민호, 이종수, 한윤봉¹, 박수동², 김희진³, 김성진(경희대학교. ¹충북대학교. ²한국전기연구원. ³이화여자대학교)

[KF1] 반도체물리학회/응집물질물리학회 공동 Focus Session : 고자기장을 이용한 이머징 재료 및 소자 물성 연구

2013년 10월 31일 목요일 14:00 - 15:40

장소: 607호

좌장: 김 용 민 단국대

KF-01(초) [14:00-14:25]

Quantum Oscillations in Q1D Organic Superconductors, (TMTSF)₂ClO₄, Under Pressure in High Magnetic Fields / CHUNG Ok Hee, BROOKS James¹, CHOI Eun Sang²(순천대학교, 물리교육과. ¹Florida State University, NHMFL)

KF-02(초) [14:25-14:50]

Optical Aharonov-Bohm Effect in a Single Quantum Ring / KYHM

K, KIM H. D.¹, TAYLOR R¹, NICOLET A. A. L.², POTESKI M², NOGUES G³, JE K. C.⁴, OKUYAMA R⁵, ETO M⁵, LEE W. J.⁶, KIM J. S.⁷, KYHM J. H.⁸, LEE E. H.⁸, SONG J. D.⁸(Pusan Nat'l Univ. Grad. School of Cognomechatronics/Physics Edu..¹Univ. Oxford, Clarendon Laboratory. ²CNRS, LNCMI. ³CNRS, Neel Institut. ⁴Anyang Univ. Liberal Arts and Science. ⁵Keio Univ. Physics. ⁶Pusan Nat'l Univ. Grad. School of Cognomechatronics. ⁷Yeungnam Univ. Physics. ⁸KIST)

KF-03(초) [14:50-15:15]

High Magnetic Field Studis of Topological Insulators / 정명화(서강대학교, 물리학과)

KF-04(초) [14:15-15:40]

Development of Schizophrenia Disease Early Detection Tool through Cortical Thickness Analysis of T1-MRI Data / LEE Boreom, MIN Beom Jun, QURESHI Muhammad(광주과학기술원 의료시스템학과)

[KF2] 반도체물리학회/응집물질물리학회 공동 Focus Session : 고자기장을 이용한 이머징 재료 및 소자 물성 연구
2013년 10월 31일 목요일 16:00 – 16:50 장소: 607호
좌장: 정 명 화 서강대

KF-05(초) [16:00-16:25]

Diamagnetic energy shift in InP-GaP effective-mass superlattice under pulsed magnetic fields / KIM Yongmin, SHIN Yongho, SONG Jindong¹, MATSUDA Y.H.², TAKEYAMA S.²(Dankook University. ¹KIST. ²University of Tokyo)

KF-06(초) [16:25-16:50]

Graphene and Carbon Nanotube Research by Using 60 Tesla Dresden High Magnetic Field Facilities / 장성호(건국대학교 물리학과)

[KF3] 반도체물리학회/응집물질물리학회 공동 Focus Session : 고자기장을 이용한 이머징 재료 및 소자 물성 연구
2013년 11월 1일 금요일 09:30 – 10:45 장소: 컨벤션 I
좌장: 김 지 희 성균관대

KF-07(초) [09:30-09:55]

고자기장과 초전도 자석 / 이형철(경북대학교, 물리학과)

KF-08(초) [09:55-10:20]

Angle Dependent Magnetoresistance in a Very High Magnetic Field / 강원(이화여자대학교 물리학과)

KF-09(초) [10:20-10:45]

고자기장을 이용한 자기적 특성 연구 / Jo Younjung(경북대학교 물리학과)

[KF4] 반도체물리학회/응집물질물리학회 공동 Focus Session : 고자기장을 이용한 이머징 재료 및 소자 물성 연구
2013년 11월 1일 금요일 11:00 – 11:50 장소: 컨벤션 I
좌장: 이 보 림 광주과학기술원

KF-10(초) [11:00-11:25]

Superfluorescence in an Ultradense Electron-Hole Plasma / KIM Ji-Hee, NOE Tim¹, WANG Yongrui², WOJCIK Aleksander², BELYANIN Alexey², MCGILL Stephen³, KONO Junichiro¹(Sungkyunkwan University. ¹Rice University, Houston TX. ²Texas A&M University, College station TX. ³National High Magnetic Field Laboratory, Tallahassee FL)

KF-11(초) [11:20-11:50]

Challenges of magneto-optics for observing long-range order / 조영달(광주과학기술원, 정보통신공학부)



SESSION L

천체물리학분과회

[LG1] 천체물리학분과회/입자물리학분과회 공동 General Session

2013년 10월 31일 목요일 11:00 - 12:45

장소: 602호

좌장: 박 명 구 경북대

LG-01 [11:00-11:25]

Recent Discoveries of Cosmic Ray Anomalies / SEO Eun-Suk(U. of Maryland)

LG-02 [11:25-11:50]

Gamma-ray Bursts, Missions of Early Universe Probe / PARK II H.(SKKU)

LG-03 [11:50-12:15]

Quasi-local Conserved Charges in a (Covariant) Theory of Gravity / 이상현, KULKARNI Shailesh, 김원태(CQUeST, 서강대학교)

LG-04 [12:15-12:30]

Inside and outside of dynamical black-branes in anti de Sitter space / YEOM Dong-han, HANSEN Jakob¹, LEE Bum-Hoon², PARK Chanyong²(Yukawa Institute for Theoretical Physics, Kyoto University. ¹Korean Institute of Science and Technology Information. ²Center for Quantum Spacetime, Sogang University)

LG-05* [12:30-12:45]

Slow-roll inflation with a Gauss-Bonnet term and Planck 2013 / TUMURTUSHAA Gansukh, KOH SEOKTAE¹, LEE Bum-Hoon², LEE Wonwoo³(Department of Physics, Sogang University. ¹Department of Science Education, Jeju National University. ²Department of Physics, Sogang University & Center for Quantum Spacetime. ³Center for Quantum Spacetime, Sogang University)

[LT1] 천체물리학분과회 Tutorial : Inflation and Planck

2013년 10월 31일 목요일 14:00 - 15:30

장소: 601호

좌장: 이 형 원 인제대

LT-01 [14:00-14:30]

Inflation Before and After Planck / 고석태(제주대학교)

LT-02 [14:30-15:00]

Lessons and challenges from PLANCK / 공진욱(APCTP)

LT-03 [15:00-15:30]

Some phenomenological aspects of Astroparticles / 박성찬(성균관대학교, 물리학과)

[LF1] 천체물리학분과회 Focus Session : Inflation

2013년 10월 31일 목요일 16:00 - 17:00

장소: 601호

좌장: 이 정 재 대전대

LF-01 [16:00-16:20]

Nonsingular preinflationary history based on EiBI gravity / 김형찬(한국교통대학교)

LF-02 [16:20-16:40]

Coleman-Weinberg inflation in light of Planck / LEE Hyun Min, CHUN Eung Jin¹, BARENBOIM Gabriela²(중앙대학교, 물리학과. ¹고등과학원, 물리학부. ²Universitat de Valencia-CSIC)

LF-03 [16:40-17:00]

Equilateral non-Gaussianity from heavy fields / PI Shi(APCTP)

[LG2] 천체물리학분과회 General Session

2013년 11월 1일 금요일 09:00 - 10:45

장소: 601호

좌장: 김 형 찬 한국교통대

LG-06 [09:00-09:15]

Rotation Curve of Galaxies Induced by Lense-Thirring effect / 임 규욱(포항공과대학교)

LG-07 [09:15-09:30]

Absolute Stability Window and The Appearance of A Longitudinal Instability in Strongly Magnetized Strange Quark Matter / ISAYEV A.A., YANG Jongmann¹(Kharkov Institute of Physics and Technology, Kharkov, 61108, Ukraine. ¹Department of Physics and the Institute for the Early Universe, Ewha Womans University)

LG-08 [09:30-09:45]

Equilibrium configurations of self-gravitating disks around neutron stars / KIM Jinho, KIM Hee Il¹, LEE Hyung Mok²(University of Notre Dame, Department of Physics. ¹Seoul National University, Department of Physics and Astronomy / KISTI. ²Seoul National University, Department of Physics and Astronomy)

LG-09 [09:45-10:00]

Electromagnetic Radiation Reaction in Curved Spacetime: Effects on Synchrotron Radiation of a Rotating Neutron Star / 김동훈, TRIPPE Sascha¹, 양종만²(초기우주과학기술연구소(IEU)/이화여자대학교, ¹서울대학교, 천문학과. ²초기우주과학기술연구소(IEU), 물리학과/이화여자대학교)

LG-10 [10:00-10:15]

The possibility of a homogeneous tunneling channel / LEE Wonwoo, LEE Bum-Hoon¹, YEOM Dong-han²(Center for Quantum Spacetime, Sogang University. ¹Department of Physics, Sogang University. ²YITP, Kyoto University)

LG-11* [10:15-10:30]

The decay of a vacuum state as Fubini solutions in curved space / RO Daeho, LEE Bum-Hoon¹, LEE Wonwoo¹, YEOM Dong-han²(Department of Physics, Sogang University. ¹Center for Quantum Spacetime, Sogang University. ²Yukawa Institute for Theoretical Physics, Kyoto University)

LG-12* [10:30-10:45]

Dilatonic hairy black hole with a Gauss-Bonnet term / SUNLY Khimpun, LEE Bum-Hoon¹, LEE Wonwoo²(Department of Physics, Sogang University. ¹Department of Physics, Sogang University & Center for Quantum Spacetime. ²Center for Quantum Spacetime, Sogang University)

[LG3] 천체물리학분과회 General Session

2013년 11월 1일 금요일 11:00 - 12:45

장소: 601호

좌장: 박 일 흥 성균관대

LG-13 [11:00-11:15]

Present State of the Earth-Moon System / 나(NA) 성호(Sung-Ho), 김(KIM) 두환(Tu-Hwan), 백(BAEK) 동현(Dong-Hyun)¹, 김(KIM) 준경(Jun-Kyung)²(아주대학교, ¹국립지리정보원, 우주측지관측센터. ²세명대학교)

LG-14 [11:15-11:30]

Three body problem and chaos / LEE Ho Joong(인천대 자연과학대)

LG-15 [11:30-11:45]

one CPU- multi GPU system에서 simplified hierarchical method를 사용한 gravitational N-body code의 정확도 대비 성능의 최적화 전략 / 김준하(한양대학교 물리학과, 마립미르 랩)

LG-16 [11:45-12:00]

Development and Fabrication of the Silicon Charge Detector for the International Space Station Experiment ISS-CREAM / LEE Jik, PARK Hiwoo, PARK Il Hung(성균관대학교, 물리학과)

LG-17* [12:00-12:15]

Absolute Energy Calibration with Electron Light Source for Fluorescence Detector of Telescope Array Experiment / SHIN BokKyun, CHEON ByungGu, SHIBATA T.¹, FUKUSHIMA M.¹, SAGAWA H.¹, TSUNESADA Y.²(Hanyang University, Department of Physics. ¹University of Tokyo, Institute of cosmic-ray research. ²Tokyo Institute of Technology, Department of physics)

LG-18* [12:15-12:30]

Coded mask 기반의 X-선 우주망원경 성능 테스트 / 김민빈, 박일홍(성균관대학교 물리학과)

LG-19 [12:30-12:45]

Readout of the UFFO Slewing Mirror Telescope for the measurement the UV/Optical afterglow from Gamma-Ray Burst / KIM Ji Eun, LIM Heuijin¹, PARK Il Hung², LEE Jik², RiPA Jakub², KIM Min Bin², PARK Hwi Woo²(Department of Physics, Ewha Womans University. ¹Dongnam Inst. of Radiological & Medical Sciences. ²Department of Physics, Sungkyunkwan University)

천체물리학분과회 총회

2013년 11월 1일 금요일 12:45 - 13:15

장소: 601호

좌장: 박 명 구 경북대

The Korean Physical Society

포스터발표논문 시간표

2013년 10월 30일 수요일 15:00 - 16:45

장소: 포스터발표장

진행: 심흥선(KAIST), 이성훈(포스텍)

P1-D001

High Speed Potential-Tunable Quantum Dot Single Electron

Source / AHN Ye-Hwan, SEO Minky¹, HONG Chang-Ki², LEE In-Ho³, BAE Myung-Ho³, CHUNG Yunchul¹, KIM Nam³(Korea University, Department of Physics)(Korea Research Institute of Standards and Science, Division of Convergence Technology). ¹(Pusan University, Department of Physics). ²(Pusan University, Department of Physics)(Korea Research Institute of Standards and Science, Division of Convergence Technology). ³(Korea Research Institute of Standards and Science, Division of Convergence Technology)

P1-D002

Quantum dot in suspended InAs nanowire defined by local bottom gates

/ YU Byeong-Sung, KIM Bum-Kyu, SHIN Jae-Cheol¹, BAE Myung-Ho², KIM Nam², KIM Ju-Jin(Chonbuk National University, Department of Physics). ¹Korea Photonics Technology Institute, Photonic-Energy Center. ²Korea Research Institute of Standards and Science)

P1-D003

Observation of the Fractional Quantum Hall States in Bilayer

Graphene / KIM Youngwook, LEE Dong Su¹, JUNG Suyong², SKÁKALOVÁ Viera³, CHO Ahra¹, WATANABE Kenji⁴, TANIGUCHI Takashi⁴, KIM Jun Sung, SMET Jurgen. H⁵(Department of Physics, Pohang University of Science and Technology, Pohang 790-784 Korea. ¹Soft Innovative Material Research Center, Korea Institute of Science and Technology, Jeonbuk 565-905, Korea. ²Center for Quantum Measurements, Korea Research Institute of Standards and Science, Korea. ³Department of Physics, University of Vienna, Boltzmanngasse 5, 1090 Vienna, Austria. ⁴Advanced Materials Laboratory, National Institute for Materials Science, 1-1 Namiki, Tsukuba, 305-0044, Japan. ⁵Max Planck Institute für Festkörperforschung, Heisenbergstrasse 1, D-70569 Stuttgart, Germany)

P1-D004

First-principles study of heterostructures of single layer 2H and

1T MoS₂ / SUNG Dongchul, HONG Suklyun(Sejong University, Graphene Research Institute and Department of Physics)

P1-D005

Ab initio Study of Transport Properties of Metal/Graphene/Metal

Junctions / RYOU Junga, HONG Suklyun(Sejong University, Graphene Research Institute and Department of Physics)

P1-D006

Magnetic Impurities on Bi₂Se₃ (111) Surface and Their Effects / HAN Jinhee, LEE Hyungjun, DOH Hyeonjin¹, CHOI Hyoung Joon(Department of Physics, IPAP, and Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University. ¹Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University)

P1-D007

HOPG(Highly Oriented Pyrolytic Graphite, 고배향성 흑연)와 ZnMg, NbCl₅가 도핑된 Graphite의 광학적 특성 및 분석 / 정일호, 이석배, 노슬기, 민휘홍, 황정식, S. Tongay¹, X. Meng²(성균관대학교 물리학과. ¹Department of Material Science and Engineering University of California, Berkeley. ²Institute of Semiconductors, Chinese Academy Of Sciences)

P1-D008

Ion-gel based EDL(Electron Double layer) field-effect transistor at Low-T / CHOI EunJip, YOON YongSeok, KIM JooYoun, LEE Chul(University of Seoul, Physics)

P1-D009

First-principles study of electronic structure of multilayer graphene on MgO(111) / MIN Kyung-Ah, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University)

P1-D010

Spin dependent transport in vertically stacked ferromagnet / graphene / ferromagnet junctions / PARK Jae-Hyun, LEE Hu-Jong(Department of Physics, Pohang University of Science and Technology)

P1-D011*

배열이 서로 다른 나노격자 위에 전사한 그래핀의 전기적 특성 변화 / 김성원, 윤호열, 이종권¹, 유영규, 엄태우, 이상욱, 장성호(건국대학교 물리학과 양자및소자. ¹서울대학교 멀티스케일 에너지 시스템 연구단)

P1-D012*

Effect of Hydrogen on Adsorption of Hydrocarbon Molecules on Graphene / CHO Sangmo, RYOU Junga, HONG Suklyun(Sejong University, Department of Physics and Graphene Research Institute)

P1-D013*

Theoretical Investigations of Graphene on Hexagonal Boron Nitride / KANG Yura, PARK Jinwoo, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University)

P1-D014*

The Electronic Property of Residue-Free Graphene Device and its Fabrication Techniques / HOYEOL YUN, YOUNGGYU YOU, SUNG HO JHANG, SANG WOOK LEE(The electronic property of residue-free graphene device and its fabrication techniques)

P1-D015*

광학적 특성을 통한 h-BN의 두께 측정방법 연구/ 이한별, 김현철, 이준호, 최두화, 윤호양, 이상욱, 정현종(건국대학교, 물리학과 양자상 및 소자전공)

P1-D016*

그래핀/h-BN 수직 접합 구조에서 일어나는 터널링 현상 연구 / 이준호, 이한별, 김현철, 최두화, 윤호양, 김용현, 윤호열, 이상욱, 정현종(건국대학교 물리학과 양자상 및 소자 전공)

P1-D017*

그래핀과 이황화텅스텐 접합 구조의 전기적 특성 연구 / 최두화, 김현철, 이준호, 이한별, 김학성, 윤호양, 이상욱, 정현종(건국대학교 물리학과 양자상 및 소자 전공)

P1-D018*

THz and FTIR Study of Twisted Bi- and Tri-Layer Graphene / PARK Byung Cheol, SON Jangyup¹, HONG Jongill¹, KIM Jae Hoon(Department of Physics, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Korea. ¹Department of Materials Science and Engineering, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Korea)

P1-D019*

그래핀 소자의 모빌리티 향상을 위한 연구 / 유영규, 김성원, 엄태우, 윤호열, 윤호양, 이상욱, 장성호(건국대학교 양자상및 소자전공, 물리학과)

P1-D020*

Synthesis of N-doped graphene using CVD with pyridine source and its characterization / 박상준, 이임복, 남정태, 배동재, 김주연¹, 김지호¹, 최은집¹, 김근수(세종대학교, 물리학과 및 그래핀연구소. ¹서울시립대학교, 물리학과)

P1-D021*

Characterization of CVD-grown graphene depend on transfer process / 남정태, 이임복, 박상준, 배동재, 김근수(세종대학교, 물리학과 및 그래핀연구소)

P1-D022*

Exchange Self-energy and Compressibility of Multilayer

Graphene by Wavefunction Rotation Method / 장윤수, 민홍기(서울대학교 물리천문학부)

P1-D023*

All-Optical Plasmonic Switch based on Graphene / MOON Kyungsun, PARK Suk-Young(Dept. of Physics, Yonsei University)

P1-D024*

Electron-Phonon Heat Transfer in Bilayer Graphene / NAM Seung-Geol, LEE Hu-Jong, JHANG Sung Ho¹(POSTECH. ¹Konkuk University)

P1-D025*

라만 분광학을 통한 탄소나노튜브의 구조 정보 측정 및 탄소나노튜브 스피너 제작 / 임태우, 김성원, 유영규, 곽은혜, 정구환, 장성호(건국대학교 물리학과, ¹강원대학교 나노응용공학과)

P1-D026*

Computational Study on Structural, Electronic, and Thermoelectric Properties of Carbon Nanofoam / PARK Sora, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University, Seoul, 130-701, Korea)

P1-D027*

First-principles study of adsorption of diatomic molecules at the edge of armchair nanoribbon MoS₂ structure / CHA Janghwan, SUNG Dongchul, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University)

P1-D028*

Effects Of Spin-Orbit Coupling In The Pt-Si Nanowires On Si(110) Surface / OH Sehoon, LEE Hyungjun, CHOI Hyoun Joon(Department of Physics and IPAP, Yonsei University)

P1-D029*

Optical Band Gap of Metal Ion Modified 2D Tile Based Double Crossover Crystal DNA Nanostructures / HA Taewoo, DUGASANI Sreekantha Reddy¹, GNAPAREDDY Bramaramba¹, CHIO Kyujin, KIM Byeonghoon¹, PARK Sung Ha¹, KIM Jae Hoon(Institute of Physics and Applied Physics, Department of Physics, Yonsei University, Seoul 120-749 Korea. ¹Department of Physics and Sungkyunkwan Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University, Suwon 440-746, Korea)

P1-D030*

단일 겹 이황화텅스텐(WSe₂)의 수득율 향상과 원자력간 현미경(AFM) 및

라만 분광 분석법을 통한 확인 / 김현철, 이준호, 이한별, 최두화, 윤호양, 김학성, 이상욱, 정현중(건국대학교 양자 상 및 소자 전공, 물리학부)

P1-D031*

Polarized Raman spectroscopy of single InGaAs nanowires / 김한울, 노희석, 이은혜, 송진동¹(전북대학교 물리학과, ²한국과학기술연구원 광전융합 시스템연구단)

P1-D032*

Multi-valued Logic Gates based on Quantum Point Contacts / SEO Minky, HONG Changki, LEE Soo-Young, KIM Nam¹, CHUNG Yunchul, UMANSKY Vladimir², MAHALU Diana²(Department of Physics, Pusan National University. ¹Korea Research Institute of Standard and Science. ²Department of Condensed Matter Physics, Weizmann Institute of Science)

P1-D033

Microscopic and Electronic Structure of Amorphous InGaZnO:H / 김명숙, 박철홍(부산대학교, 유전체물성연구소, ¹부산대학교, 유전체물성연구소 & 물리교육과)

P1-D034

Pseudo-spin Model of Hydrogen-bonded Ferroelectrics on a Checkerboard Lattice / 김세현(제주대학교 과학교육과 물리교육전공)

P1-D035

Possible magnetism by strain in single-layer MoS₂ with vacancy defect / YUN Won Seok, LEE J. D.¹(DGIST-LBNL Joint Research Center and Department of Emerging Materials Science, DGIST, Korea and Center for X-ray Optics, Lawrence Berkeley National Laboratory, USA. ¹Department of Emerging Materials Science, DGIST, Korea)

P1-D036

Ab initio Study of 180 Domain Walls in PbTiO₃ / 송희철, 김혜정(울산대학교, 물리학과)

P1-D037

Angle Dependence of the Critical Electric Field for Half-metallicity in Multi-layer Graphene Nanoribbons / JEON Giwan, LEE Kyu Won, LEE Cheol Eui(Department of Physics and Institute for Nano Science, Korea University, Seoul 136-713)

P1-D038

Charge Order Phases in LuFe₂O₄ / CHANG-JONG Kang, B. I. Min(POSTECH, Dept. of Physics)

P1-D039

Correlation between magnetism and catalytic reactivity Pt_3M ($M = Co, Fe$): first-principles study / KWON oryong, HONG sooncheol
(Department of Physics, University of Ulsan)

P1-D040*

Ferrimagnetic Slater Insulator Phase of the Sn/Ge(111) Surface /
LEE Jun-Ho, KIM Hyun-Jung, CHO Jun-Hyung(Hanyang University, Department
of Physics)

P1-D041*

**Data Ming for Next-generation High-k Dielectrics; Automation
of Band Gap and Permittivity Calculation** / KANGHOON Yim, YONG
Youn, SEUNGWU Han(서울대학교 재료공학부)

P1-D042*

**The Effect of Interface Defects on the Boron Diffusion Pathway
and Migration Barrier at Si/SiO₂ Interface** / KIM Geun-Myeong, OH
Young Jun, CHANG Kee Joo(KAIST, 물리학과)

P1-D043*

Xeon Phi를 이용한 전자구조 계산 성능 향상 가능성 / 정석민, 김규형(전
북대학교 물리학과)

SESSION P1

응용 물리학과
포스터 발표

2013년 10월 30일 수요일 15:00 - 16:45

장소: 포스터 발표장

P1-E001*

**Synthesis and characterization of hexagonal twisted bilayer
graphene** / HONG Sung Ju, HAN Gang Hee¹, MANZO A. Julio R.¹, KIM
Kyung Ho, SOLER-VELGADO David, DRNDIC Maria¹, JOHNSON A. T.
Charlie¹, PARK Yung Woo(Department of Physics and Astronomy, Seoul
National University ¹Department of Physics and Astronomy, University of
Pennsylvania)

P1-E002*

**Synthesis and Characterization of Large-Area and Highly
Crystalline Tungsten Disulphide (WS₂) Atomic Layer by Chemical
Vapor Deposition** / KIM Ji Sun, KIM Yooseok, PARK Seung-Ho, KO Yong
Hun, PARK Chong-Yun(Department of Physics, Sungkyunkwan University,
Suwon 440-746, Republic of Korea)

P1-E003

**Controlled growth of large-area mono-, bi-, and few-layer
graphene by chemical vapor deposition on copper substrate** /
KIM Yooseok, LEE Su-il, JUNG Dae Sung¹, CHA Myoung-Jun, KIM Ji Sun, KO
Yong Hun, PARK Chong-Yun(Department of Physics, Sungkyunkwan
University, Suwon 440-746, Republic of Korea. ¹Department of Energy Science,
Sungkyunkwan University, Suwon 440-746, Republic of Korea)

P1-E004

**The White LED Application Possibility of the Yellow Phosphor
GdVO₄:Dy³⁺** / JEONG Jung Hyun, OH Ju Hyun, KIM Eun Ock, MOON Byung
Kee, CHOI Byung Chun, CHUNG Jong Won¹(Department of Physics, Pukyong
National University. ¹Department of Chemistry, Changwon National University)

P1-E005

**Photoluminescence and Cathodoluminescence Properties of
Blue-light Emitting Sr₂CeO₄ Phosphor** / JEONG Jung Hyun, SEO Yeon
Woo, MOON Byung Kee, CHOI Byung Chun(Department of Physics, Pukyong
National University)

P1-E006

Er³⁺을 첨가한 (La_{0.94}-xYb_{0.06})TaO₄: Er³⁺ 형광체의 형광특성 연구
/ 이성수, 김동균, 박성준(신라대학교, 신소재공학과)

P1
포
스
터
세
션

P1-E008

Optical Characteristics of Dy³⁺ in Calcium Strontium Silicate Powders for Photonic Applications / 하명규, 한경림, 양호순¹, 홍경수
(한국기초과학지원연구원 부산센터, ¹부산대학교 물리학과)

P1-E009*

3D Coherent X-ray Diffraction Imaging on ZSM-5 zeolites / 김현정, 차원석, CARNIS Jerome, MBAYE Seck Ngor, 강진백, 안국일, 김아정, PHAM Tung, 윤경병, 이해철, 유청중¹(서강대학교, ¹포항 가속기 연구소)

P1-E010*

Synthesis of Size and Site selective ZnO nanowires on Seed Patterns Prepared By Using Electrohydrodynamic Lithography / LEE Suok, MOON Choongman, JUNG Sang Hee¹, LEE Jaejong¹, KANG Dae Joon(Department of Physics, Institute of Basic Sciences, Sungkyunkwan University, Korea. ¹Nanomechanical Systems Research Division, KIMM, Daejeon 171, KOREA)

P1-E011*

2-Step Hydrothermal Synthesis of GaN nanowires / KHAN Shahbaz, KANG Dae Joon(Department of Physics, Department of Energy Science, Sungkyunkwan University, Korea)

P1-E012*

Synthesis and Dielectric Properties of Multi-walled Carbon Nanotube and Pb(Zr_{0.52}Ti_{0.48})O₃ Composite films for High Performance Insulators / KWAK Jin Ho, HAN Jin Kyu, BU Sang Don(Department of Physics, Chonbuk National University)

P1-E013*

Bias voltage effect on photo-assisted bistable switching in vanadium dioxide / 서기완, 김봉준, 이용욱², 김현탁(과학기술연합대학원대학교 차세대소자공학과, 한국전자통신연구원 MIT 창의연구실, ¹한국전자통신연구원 MIT 창의연구실, ²부경대학교 전기공학과)

P1-E014

Preparation of P- and Ca-doped TiO₂ Nanotube Layer by Anodic Oxidation for Dental Applications / KIM Kun Ho, LEE Jeoung Ju, CHO Sung-Am¹, SEO Dong Ju²(Department of Physics and RINS, Gyeongsang National University. ¹Department of Prosthodontics, College of Dentistry, Kyungpook National University. ²Department of Physics Education, Chosun University)

P1-E015*

GaN/AlGaIn 도파로 효과를 통한 GaN 발광다이오드 추출효율 향상 / 나진영, 김선경(경희대학교, 응용물리학과)

P1-E016*

Flexible & Nano architecture pGaN/ZnO LED structure on carbon Fiber / ABBAS Kaleem, KANG Dae Joon(Department of Physics, Department of Energy Science, Institute of Basic Sciences, Sungkyunkwan University, Korea)

P1-E017

Optical and Structural Properties of Pt/ZnO Nanorods Composites with Heat Treatment / LEE JiEun, YUN Jong Won, SEO DuckMin, CHOI SuMin, KIM SoonWook, KIM HyunSeung¹, KWON MinChul¹, YOO DaeHwang, HAHN SungHong(University of Ulsan, Physics. ¹UNIVeC, GimHae)

P1-E018

Luminescence investigations of Sr₃SiO₅:Eu²⁺ orange-yellow phosphor for UV-based white LED / 양현경, 노현미¹, 정중현¹(한국에너지기술연구원, ¹부경대학교, 물리학과)

P1-E019*

Femtosecond Dynamics Study on Energy Transfer in a Side-chain Triphenylene-Polythiophene Polymer / KIM E.S., LEE K.J., WOO J.H., MAZUR Leszek¹, XIAO Y.², MATHEVET F.², ATTIAS A.-J.², RIBIERRE J.-C.³, WU J.W.⁴(Department of Physics and CNRS-Ewha International Research Center, Ewha Womans University. ¹Laboratory of Polymer Chemistry, University Pierre et Marie Curie, Institute of Physical and Theoretical Chemistry, Wroclaw University of Technology. ²Laboratory of Polymer Chemistry, University Pierre et Marie Curie. ³Center for Organic Photonics and Electronics Research, Kyushu University. ⁴Department of Physics and CNRS-Ewha International Research Center, Ewha Womans University)

P1-E020

차량운전시물레이터를 이용한 야간 도로조명 성능 검증 방법 연구 / 이윤철, 채성기¹, 김강호¹, 조용익¹, 우정주(전남대학교 물리학과, ¹한국광기술원)

P1-E021*

레이저 홀로그래픽 리쓰그래피를 이용한 점진적 크기 변화를 가지는 2차원 광자결정 제작 / 전현수, 정현호¹, 김한빛¹(서울대학교, 물리천문학부 & 생물물리 및 화학생물학과, ¹서울대학교, 물리천문학부)

P1-E022*

생체에 적합한 발광 탄소 나노입자 합성 및 특성 연구 / 임채리, 김상룡, 이순일, 하나영(아주대학교 에너지시스템학부 물리학전공)

P1-E023

볼로미터 적외선 센서용 V-Zn계 산화물 박막 증착 및 열처리 효과 / 한영수, 김대현, 문수빈, 고향주, 신재철, 김효진, 김두근(한국광기술원 광바이오연구센터)

P1-E024*

전기도금법을 이용한 Bismuth telluride 박막의 조성변화와 열처리를 통한 결정성 증가 / 홍기민, 노진성, 서호영, 김창수(충남대학교, 물리학과, ¹표준과학연구원)

P1-E025*

Morphologies of Te Thin Films Fabricated by Galvanic Displacement Reaction of Electroplated Co Thin Films / 홍기민, 서호영, 노진성, 김창수¹, 김진규², 김창연²(충남대학교, 물리학과, ¹표준과학연구원, ²기초과학지원연구원)

P1-E026*

Imaging fully hydrated biological specimens by coherent diffraction microscopy / NAM Daewoong, PARK Jaehyun¹, GALLAGHER-JONES Marucs¹, KIM Sangsoo¹, KIM Sunam¹, KOHMURA Yoshiki¹, NAITOW Hisashi¹, KUNISHIMA Naoki¹, YOSHIDA Takashi², ISHIKAWA Tetsuya¹, LEE Ki Bong³, SONG Changyong¹(Department of physics, POSTECH // RIKEN SPring-8 Center. ¹RIKEN SPring-8 Center. ²Division of Applied Biosciences, Kyoto university. ³Department of physics, POSTECH)

P1-E027

The Physical properties of pulsed laser ablated Cu₂ZnSnSe₄ thin films as a function of deposition conditions / 배중성, 정은혁, 홍태은, 진종성, 정의덕, 김양도¹, 박성균², 오원태³, 황정식⁴(한국기초과학지원연구원, 하이테크소재연구부, ¹부산대학교, 재료공학부, ²부산대학교, 물리학과, ³동의대학교, 융합부품공학과, ⁴성균관대학교, 물리학과)

P1-E028*

Spatially Resolved Electrical, Optical, and Morphology Studies in Cu₂SnZnS₄ Solar Cells / NAM Dahyun, GANSUKH Mungunshagai, SON Dae-Ho¹, KIM Dae-Hwan¹, YANG Kee-Jeong¹, KANG Jin-Kyu¹, CHEONG Hyeonsik(Sogang University, Department of Physics. ¹DGIST, Green Energy Research Division)

SESSION P1

광학및양자전자학과
포스터 발표

2013년 10월 30일 수요일 15:00 - 16:45

장소: 포스터 발표장

P1-I002

고분자-저분자 혼합 발광층을 이용한 백색 유기발광소자의 미세구조 연구 / 고은임, 전영표, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I003

그래핀 층을 삽입하여 제작한 고분자 발광 소자의 전기적 및 광학적 특성 연구 / 이준규, 전영표, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I004

적색 고분자 및 청색 저분자 혼합층의 두께에 따른 백색 유기발광소자의 전기적 및 광학적 특성 연구 / 김민성, 전영표, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I005

양자점과 무기 형광체가 혼합된 색변환층을 가진 백색 유기발광 소자의 색안정성 연구 / 김기현, 전영표, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I006

다층 전자주입층을 이용한 유기발광소자의 효율 향상 연구 / 안준성, 이광섭, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I007

유기물 n형 도판트를 사용한 고효율 백색 유기발광소자의 특성 / 김기태, 전영표, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I008

LED 조명용 렌즈 설계에 따른 면·선광원 LED 효율 및 균일도 평가 측정 / 김문경, 허윤정, 박은미, 조상철, 김종수, 정연태, 임권택, 김종태(이미지시스템공학과)

P1-I009

혼합 호스트 발광층을 사용한 인광 유기발광소자의 특성 연구 / 유병수, 전영표, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I010

태양광 채광장치의 광 특성 분석 및 설계에 관한 연구 / 허윤정, 김문경, 박은미, 임권택, 정연태, 김종태(부경대학교 이미지시스템공학과)

1-I011

호스트 발광층에 혼합 도펀트를 사용하여 제작한 청색 유기발광소자의 광학적 특성 연구 / 조진택, 김대훈, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I012

고분자 정공 수송물질과 색변환물질의 혼합층을 적용한 청색 유기발광소자의 색변환 증진에 관한 연구 / 전영표, 김기현, 김태환(한양대학교, 전자컴퓨터통신공학과)

P1-I013

Perfect absorption in ultrathin film of indium tin oxide / BADSHA ALAMGIR, KIM Jin Joo, HWANGBO Chang Kwon(Department of Physics, Inha University)

P1-I014

극자외선 노광공정용 이진마스크의 일층 및 이중 흡수체 구조 설계 / 임재동, 김원영, 황보창권(인하대학교, 물리학과)

P1-I015

아나포픽 렌즈를 이용한 열상광학계 설계 및 제작 / 윤창준, 오승은, 이선규, 박상영(삼성탈레스)

P1-I016

고배율 Apochromatic Beam Expander의 설계 및 공차해석 / 이종웅, 여필상(청주대학교, 레이저광정보공학과)

P1-I017

채광 광섬유의 채광 효율 평가 및 태양광 추적 시스템 고안 / 김성현, 박재식, 이민환(전남대학교 물리학과)

P1-I018

PZT를 이용한 컨포칼 현미경의 3차원 연구 / 우지훈, 임상희, 임재원, 추승웅, 김재순(영지대학교 물리학과, ¹오로스테크놀로지)

P1-I019

탈봇 이미지 타입 엔코더의 위치 오차에 따른 신호 분석 / 한진오, 이선호, 이지수, 최동수¹, 조규중¹, 최종립², 추승웅², 김재순(영지대학교 물리학과, ¹저스텍, ²AUROS)

P1-I020

동의 결상을 기준으로 한 등가렌즈 변환에 대한 연구 / 이종웅, 방현진(청주대학교, 레이저광정보공학과)

P1-I021

고온용 온도센서 응용을 위한 광섬유 격자 센서 연구 / 서지희, 이남권, 이승환, 유윤식(동의대학교 부산IT융합부품연구소, ¹동의대학교 부산IT융합부품연구소, 동의대학교 방사선학과)

P1-I022

Study of Phosphor Layer Thickness in Phosphor-Converted White LED Fabricated by Using Closed Remote Method / JEONG Junho, HAN Sangwook, SHON Jiwon(Dong-A University)

P1-I023

Measurements of Refractive Index and Height profile of Micro-optical element using DHM and liquids / 이호동, 신상훈, 유영훈(KPS, ¹물리학과, 제주대학교)

P1-I024

간섭 신호를 이용한 Hollow Core Photonic Crystal Fiber의 도파 모드 분석 / 이민환, 박재식, 김성현, 최경원(전남대학교 물리학과)

2013년 10월 30일 수요일 15:00 - 16:45

장소: 포스터 발표장

P1-K001*

P3HT:PCBM의 혼합비율에 따른 n-GaN 기반의 hybrid photovoltaic에 관한 연구 / 권동오, 신민정, 전인준, 안형수, 이삼녕(한국해양대학교 응용과학과, ¹한국해양대학교 나노반도체공학과)

P1-K002*

In-depth Analysis of the Fluorescence Enhancement Process of Quantum Dots (QDs) by Localized Surface Plasmons (LSPs) from Metal Nanodisks for Color-Conversion White QLED Applications / 박현철, ISNAENI Isnaeni, 조용훈(KAIST, 물리학과)

P1-K003*

PEDOT:PSS 두께에 따른 n-GaN 기반의 organic/inorganic hybrid photovoltaic에 관한 연구 / 이상덕, 이찬미, 권동오¹, 신민정¹, 안형수¹, 이삼녕¹(한국해양대학교 나노반도체공학과, ¹한국해양대학교 응용과학과)

P1-K004*

WO_x-based ReRAM performance using electrode's electronegativity / KIM Jongmin, KIM Duhwan, JO Yongcheol, PARK Wooyoung, KIM Inho, KIM Hyungsang¹, IM Hyunsik(동국대학교, 반도체학과, ¹동국대학교, 물리학과)

P1-K005*

Novel [CoO/Pd]_n/[Co/Pd]_m Multilayer Matrix (Frameworks) For Highly Thermal Stability In Perpendicular Magnetic Anisotropy Features / LEE JaBin, AN GwangGuk, YANG SeungMo, KIM JaeHong, HONG JinPyo(Novel Functional Materials and Device Lab., Dept. of Physics, Hanyang University)

P1-K006*

Graphene Oxide-based Resistive Switching Memory Behaviors / JE BOCK Chung, AH RAHM Lee, YOON CHEOL Bae, GWANG HO Baek, HEE WOOK Yoon¹, HO BUM Park¹, JIN PYO Hong²(Department of Nanoscale Semiconductor Engineering, Hanyang University, Seoul, 133-791, South Korea. ¹Department of Energy Engineering, Hanyang University, Seoul, 133-791, Republic of Korea. ²The Research Institute for Natural Science, Novel Functional Materials and Devices Lab, Department of Physics, Hanyang University, Seoul 133-791, South Korea)

P1-K007*

Interface-driven dual resistive switching curves in a single Pt/Ta₂O_{5-x}/TiO_xN_y memory cell / AH RAHM Lee, YOON CHEOL bae, GWANG HO baek, JE BOCK Chung, TAE SUNG kang¹, JIN PYO Hong¹(Department of Nanoscale Semiconductor Engineering, Hanyang University, Seoul, 133-791, South Korea. ¹Department of Physics, Hanyang University, Seoul 133-791, South Korea)

P1-K008*

Defect state analysis of solution based ZnO thin film transistor by ultra violet annealing process / KANG Taesung, KOO Jahyun, KIM Taeyoon, HONG Jinpyo(Department of Physics, Research Institute for Natural Science, Hanyang University)

P1-K009*

Growth and Characteristics of InGaN/GaN Multi-Quantum Wells on Defect-Selective Etched GaN Layer by Electro-chemical Etching / LEE Seul Be, PARK Ah Hyun, SEO Tae Hoon, LEE Gun Hee, SHIN GangU, KIM Bo Kyoung, SUH Eun-Kyung(School of Semiconductor and Chemical Engineering & Semiconductor Physics Research Center, Chonbuk National University)

P1-K010*

Contact properties of Annealed bulk MoS₂/metal Junction / JO Yongcheol, LEE Chongha, LEE Jongkyung, WOO Hyeonseok, KIM Jongmin, KIM Inho, PARK Wooyoung, KIM Hyungsang, IM Hyunsik(Dongguk University)

P1-K011*

The Study of Electric and Thermoelectric Properties in N- and P-type Silicon Nanowire Thermoelectric Devices / KIM Soojung, JEON Hyojin, CHOI Wonchul¹, JUN Dongsuk², JANG Moongyu²(한국전자통신연구원/ UST, 차세대소자공학과. ¹한국전자통신연구원/ KAIST, 전자공학과. ²한국전자통신연구원)

P1-K012*

Growth of CZTS crystals and thin films / MAI Duc Luan, 박현정, 최인환(중앙대학교 물리학과)

P1-K013*

Electrical And Threshold Switching Properties Of Bi-doped GeSe Chalcogenide Glasses / SEO Juhee, AHN Hyung-Woo¹, SHIN Sang-yeol, CHEONG Byung-ki, LEE Suyoun(Electronic Materials Research Center, Korea Institute of Science and Technology. ¹Department of Material Science and Engineering, Korea University)

P1-K014*

Effect of Capping Materials(Ta, Pt and Ti) and Annealing Temperature of CoFeB/MgO/CoFeB Magnetic Tunnel Junction on Magnetic Properties / SHIM Hyun-Woo, HONG Jung-Sun, LEE Seung-Eun¹, LEE Du-Yeong¹, JEON Min-Su¹, TAKEMURA Yastaka², SHIM Tae-Hun, PARK Jea-Gun(한양대학교 융합전자공학과, ¹한양대학교 전자컴퓨터통신공학과, ²SUMCO Corporation)

P1-K015*

Effects of surface etching in GaN-based LEDs on electrical property and light extraction efficiency / SON Taejoon, YEON Seunghwan, PARK Jinsub(Hanyang University, Department of Electronics and Computer Engineering)

P1-K016*

Effects of Spontaneous Polarization of 4H-SiC on Electrical Properties of Metal/4H-SiC Junction with Thin Interface Spacer Layer / CHOI Gahyun, JEON Youngeun¹, LEE Jung Yong, YOON Hun Han¹, PARK Kibog¹(Physics, Ulsan National Institute of Science and Technology. ¹Electrical and Computer Engineering, Ulsan National Institute of Science and Technology)

P1-K017*

Resistive switching memory behavior by Au quantum dots embedded in dielectrics on graphene layer / SO Joon Sub, LEE Dong Uk, KIM Eun Kyu(Department of Physics and Quantum-Function Research Laboratory, Hanyang University, Seoul 133-791)

P1-K018*

Fabrication of Polypyrrole/ZnO Hybrid p-n Heterojunction for Photovoltaic Cell / CHOI Jun-Hong, HAN Sang-Hoo, CHO Inche, KIM Do-Hyun¹, KUMAR G.Mohan¹, PARK Jinsub¹(Hanyang University, Department of Electronic Engineering. ¹Hanyang University, Department of Electronics and Computer Engineering)

P1-K019*

Structural and optical properties of antimony-doped tin dioxide thin films / 소현섭, 박준우, 이호선(경희대학교 응용물리학과)

P1-K020*

Optical Properties of Large Area MoS₂ Ultra-thin Films Grown using Chemical Vapor Deposition / SO Hyeon Seob, PARK Jun-Woo, LEE Hosun, KIM Sung, CHOI Suk-Ho, LEE Jinhwan¹, LEE Changgu¹(Kyung-Hee University. ¹Sungkyunkwan University)

P1-K021*

실리콘 기판위에 성장한 InAs 나노와이어 트랜지스터의 전기적 특성 분석 / 김명상, 황정우, 박희경², 허재영², 김효진³, 지택수³, 신재철¹(한국광기술원 광 바이오센터, 전남대학교 전자컴퓨터공학과, ¹한국광기술원 광바이오센터, ²전남대학교 신소재공학과, ³전남대학교 전자컴퓨터공학과)

P1-K022*

HVPE법에서 GaN의 열분해 특성을 적용한 저결함 후막 GaN의 분리 기술에 관한 연구 / 김시내, 이현재, 김시영¹, 최성국, 구지은, 장지호(한국해양대학교, 응용과학과 반도체 물리전공, ¹(주)판크리스탈)

P1-K023*

Exact and Reliable in-die Overlay Metrology in Nano-scale Semiconductor Device Using Image Process Method / PARK Jinkook, SHIN Chaeho¹, PARK Jeongkyun¹, YIM yeny², LEE Janghee¹, KIM Minkook¹, KIM Jungsoo¹, JUN ChungSam¹, YOO Jeihwan³, LEE Kyupil¹(Samsung Institute of Technology (SSIT), Semiconductor Engineering. ¹Samsung Electronics, Memory Division. ²Samsung Electronics. ³Samsung Institute of Technology (SSIT))

P1-K024*

Thermal escape process and Auger coefficient of CdTe/ZnTe quantum dots / MAN Minh Tan, 이홍석(제주대학교, 물리학과)

P1-K025*

HNO₃, AuCl₃, 및 RhCl₃를 도핑하여 제작한 p형 그래핀의 구조적, 광학적, 및 전기적 특성 비교 연구 / 장찬욱, 문윤중, 고지혜, 김주환, 신동희, 김성, 최석호(경희대 응용물리학과)

P1-K026*

AuCl₃가 도핑된 그래핀 전계효과 트랜지스터의 열처리 온도에 따른 구조적 및 전기적 특성 변화 연구 / 신동희, 장찬욱, 김주환, 이경원, 김정길, 오시덕, 김성, 최석호(경희대 응용물리학과)

P1-K027*

PEI를 도핑하여 제작한 n형 그래핀의 구조적, 광학적, 및 전기적 특성 연구 / 김주환, 김종민, 주송신, 이재성, 강수석, 김창오, 김성, 최석호(경희대 응용물리학과)

P1-K028*

Photoelectron spectroscopic investigation of Ti deposited amorphous In-Ga-Zn-O thin film surface / SHIN Hyun-Joon, KANG Se Jun, BAIK Jae Yoon¹(POSTECH, Department of Physics. ¹Pohang Accelerator Laboratory)

P1-K029

진공증착 법으로 ITO 기판 위에 제작한 $\text{Zn}_x\text{Cd}_{1-x}\text{Se}$ 박막의 구조 및 광학적 특성 / 이정주, 한동현, 윤은정, 최수창, 박창영, 김건호(경상대학교, 물리학과)

P1-K030

Efficient Hydrogen Generation from Solar Water Splitting employing GaN as a Photoanode / EBAID Mohamed, KIM Soo Hee, KANG Jin-Ho, LEE Seung-Min, RYU Sang-Wan(Department of Physics, Chonnam National University)

P1-K031

Growth and characterization of p-type InAs nanowires grown by MOCVD / 황정우, 이아리, 김명상, 이상준, 신재철(한국광기술원 광바이오센터, '한국표준과학연구원 나노소재평가센터')

P1-K032

PLD법에 의해 성장된 ZnO 에피레이어의 홀 이동도의 온도 의존성 / 홍광준(조선대학교 물리학과)

P1-K033

$\text{n-CdS}_{0.71}\text{Se}_{0.29}$ / $\text{p-Cu}_{2-x}\text{S}_{0.7}\text{Se}_{0.29}$ 이종접합 태양전지의 제작과 특성 / 홍광준(조선대학교 물리학과)

P1-K034

뜨거운 결쌍기법에 의해 성장된 $\text{Cd}_{1-x}\text{Zn}_x\text{S}$ 박막의 열처리 조건에 따른 감도 측정 / 홍광준(조선대학교 물리학과)

P1-K035

Study on Hall effect and crystal field splitting for ZnGa_2Se_4 epilayers / HONG Kwangjoon(Department of Physics, Chosun University)

P1-K036

콜레스테릭 액정을 이용한 투과-반사 LCD / 김기현, 이원재, 김한나, 류호준, 추혜용(한국전자통신연구원)

P1-K037

Enhanced light extraction of Green light emitting diodes via simultaneous ITO texturing and n-GaN nanorod formation using nano powder / 김승환, 김기영, 송영호, 양계모, 전성란(한국광기술원, '전북대학교')

P1-K038

Luminescence Properties of Tb-doped SrMoO_4 Powders and Thin Films / 정운환, 조신호(신라대학교 신소재공학과)

SESSION P2

응집물질물리학과와 포스터 발표
유전체, 표면/계면

2013년 10월 31일 목요일 11:00 - 12:45

장소: 포스터발표장

진행: 황윤희(부산대), 송영재(성균관대)

P2-D044

Synthesis and Optical Properties of $\text{SrCaSiO}_4:\text{Eu}^{2+}$ Prepared by Solid State Reaction Method / KWON Bong-Joon, WOO Hyun-Joo¹, GANDHI Sakthivel, SHIN Dong-Soo², JANG Kiwan¹(Changwon national university, Research institute of basic sciences. ¹Changwon national university, Department of physics. ²Changwon national university, Department of chemistry)

P2-D045

Large Strain Under a Low Electric Field in Lead-free Bismuth-based Piezoelectrics / 안창원, ULLAH Aman, ULLAH Amir, 김일원, 김주성¹, 김종필²(울산대학교, 물리학과 & EHSRC. ¹한국기초과학지원연구원, 부산센터)

P2-D046

Dielectric Properties of $\text{Ba}_{1-x}\text{Eu}_x\text{TiO}_3$ Ceramics in the Low Temperatures / 전병익, 엄성문¹, 이수열², 김동진³(한국과학영재학교, 물리지구과학부. ¹한국과학영재학교. ²부산대학교, 물리학과)

P2-D047

Dielectric relaxation in PLZT-x/95/5 ceramics / 박종호(진주교육대학교, 과학교육과)

P2-D048

Crossover from ionic hopping to nearly constant loss in the ionic conductor Glasses / 박종호(진주교육대학교, 과학교육과)

P2-D049

$\text{Sm}_2(\text{MoO}_4)_3$ 단결정의 열팽창의 공간분포 특성 / 손종윤, 전중창¹, 이수대²(경상대학교 물리학과. ¹경남과학기술대, 전자공학과. ²경남대학교 사범대 공통학과)

P2-D050

Effects of Ge-doped ZnO Electrode for the $\text{BiFe}_{0.95}\text{Mn}_{0.05}\text{O}_3$ Thin Film Prepared by a Pulsed Laser Deposition Technique / 김상수, 김진원, 김상욱, RAGHAVAN C. M., 최지아, 김은주, 김원정(창원대학교, 물리학과)

P2-D051

Physical Properties of the Ge-doped ZnO Thin Films Fabricated by a Pulsed Laser Deposition Method / 김상수, RAGHAVAN C. M., 김진원, 김상욱, 최지아, 김은주, 김원정(창원대학교, 물리학과)

P2-D052

Investigation of the Hydrogen Atom Potential without a Phase Transition in the $\text{SO}_4\text{-H-SO}_4$ Dimer in $\text{K}_3\text{H}(\text{SO}_4)_2$ by Neutron Diffraction / OH In-Hwan, SOHN Yoo-Jung¹, MEVEN Martin¹, HEGER Gernot¹(Neutron Science Division, KAERI. ¹Institut fuer Kristallographie, RWTH Aachen, Germany)

P2-D053

BaTiO₃-d Field effect transistor gated by electric double layers of ionic liquid / 박영안, 성길동, 김용환, 정종훈, 허남정(인하대학교)

P2-D054

Study on Thermodynamic Properties and Phase Transitions of Tutton Salt $(\text{NH}_4)_2\text{Fe}(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ by MAS NMR and Single-Crystal NMR / 김우영, 임애란(전주대학교, 탄소융합대학원. ¹전주대학교, 과학교육과)

P2-D055

Roles of Chemically Inequivalent $\text{N}(\text{CH}_3)_4$ Ions in Phase Transition Temperatures in $[\text{N}(\text{CH}_3)_4]\text{CoCl}_4$ by Single-Crystal NMR and MAS NMR / 김우영, 임애란(전주대학교, 탄소융합대학원. ¹전주대학교, 과학교육과)

P2-D056

Hydrothermal Synthesis and Luminescence Properties of Gd_2O_3 / Eu^{3+} Nanowires / BAE Dong-hyun, JANG Kiwan(Changwon national university, Department of physics)

P2-D057

고체 산화물 연료전지 밀봉재 $(1-x)[\text{SrO-SiO}_2\text{-B}_2\text{O}_3]\text{-xAl}_2\text{O}_3$ 유리의 구조 · 열 · 기계 특성 / 김은아, 최현우¹, 김맥, 백창규, 임영훈², 양용석(부산대학교, 나노융합기술학과. ¹부산대학교, 물리학과. ²세명대학교, 교양학부)

P2-D058

Optical Properties of $\text{CaSrSiO}_4:\text{Eu}^{3+}$, Eu^{2+} Phosphors Prepared by Water Soluble Silicon Compound Based Sol-gel Method / WOO Hyun-Joo, KWON Bong-Joon¹, GANDHI Sakthivel¹, SHIN Dong-Soo², JANG Kiwan(Changwon national university, Department of physics. ¹Changwon national university, Research institute of basic sciences. ²Changwon national university, Department of chemistry)

P2-D059

Energy-storage Density of the $\text{Bi}_{0.5}(\text{Na}_{0.82}\text{K}_{0.18})_{0.5}(\text{Ti}_{1-x}\text{Mn}_x)\text{O}_3$ Ferroelectric Thin Films / 김일원, 채송아, 안창원, 최강호(울산대학교, 물리학과, 에너지 하베스트-스토리지 연구센터)

P2-D060

The ferroelectric and dielectric response in the blend films of P(VDF-TrFE) based polymers / 김일원, ULLAH Amir, 안창원, 원성식, 최진호(울산대학교 물리학과, EHSRC)

P2-D061

Reversal of self-polarization properties of lead-free $(\text{K}_{0.5}\text{Na}_{0.5})(\text{Mn}_{0.005}\text{Nb}_{0.995})\text{O}_3$ ferroelectric thin films on Nb:SrTiO₃ substrate / 김일원, 석해진, 안창원, 양찬호¹, 김광은¹, TANGE Achiri Celestine(울산대학교 물리학과, EHSRC, ¹카이스트 물리학과)

P2-D062

BaTiO₃-SiO₂ 유리의 결정형성 동역학 및 열·구조 특성 / 최현우, 김은아¹, 김맥¹, 백창규¹, 강중현¹, 양홍열¹, 김성현¹, 임영훈², 양용석¹(부산대학교, 물리학과, ¹부산대학교, 나노융합기술학과, ²세명대학교, 교양학부)

P2-D063

Polarization modulation Induced by Spin-Dependent p-d Hybridization in Cu₂V₂O₇ / LEE Yong-woo, JANG Tae-hwan, DISSANAYAKE S.E.¹, LEE Sunghun¹, JEONG Yoon Hee(POSTECH, Department of Physics, ¹University of Virginia, Department of Physics)

P2-D064

등온 및 비등온 열분석을 이용한 Li₂B₄O₇-ZnO 유리의 결정화 기구 / 양홍열, 최현우¹, 김맥¹, 강중현¹, 백창규¹, 김성현¹, 김은아¹, 임영훈², 양용석¹(부산대학교 나노융합기술학과, ¹부산대학교 물리학과, ²세명대학교 교양학부)

P2-D065

레이저 도플러 간섭계를 이용한 PVDF-TrFE Polymer 압전체의 나노 변위 측정 / 박봉찬, 원성식, 안창원, ULLAH Amir, 김현오¹, 김일원(울산대학교 물리학과, EHSRC, ¹부산대학교 물리학과)

P2-D066

Micro-structural and Electrical Properties of Chemical Solution Deposited Li-ZnO/BiFeO₃ Double-layered Thin Film / 김상수, 최지아, 김진원, RAGHAVAN C. M., 김은주(창원대학교, 물리학과)

P2-D067

Electrical Properties of Bi₄Fe₂O₉ Thin Films Prepared by a

Chemical Solution Deposition / 김상수, 김은주, 김진원, RAGHAVAN C. M., 최지아(창원대학교, 물리학과)

P2-D068

Lead-free LiNbO₃ nanowire based nanocomposite for piezoelectric power generation / 정중훈, 윤병길, 박용근(인하대학교, 물리학과)

P2-D069

Possible coexistence of piezoelectricity and electric conduction in oxygen-deficient NaNbO₃-d nanocubes / 윤병길, 박용근, 정중훈(인하대학교 물리학과)

P2-D070*

Temperature-dependent local structural properties of Mott insulator Ti₂O₃ / HWANG I.-H., JIN Zhenlan, PARK C.-H., HAN S.-W., JIANG Bingzhi¹(Department of Physics Education and Institute of Fusion Science, Chonbuk National University, ¹Department of Physics, Yanbian University)

P2-D071*

자외선 펄스레이저를 이용한 SnO₂ 박막의 저온합성 / 김혁진, 강건희, 유광남, 윤예슬, 강민규¹, 강종윤¹, 최은진, 한문섭, 박종혁², 장영준(서울시립대학교 물리학과, ¹KIST, ²ETRI)

P2-D072*

Study on transport properties of ultra-thin ferroelectric BaTiO₃ films at various temperatures / SHIN Yeongjae, KIM Y. S., LEE S. R., JEON B. C., SINN S, YANG S. M.¹, YOON J. -G², CHUNG J. -S.³, NOH T. W.(Center for Correlated Electron Systems, Institute for Basic Science (IBS), and Department of Physics & Astronomy, Seoul National University, Seoul 151-747, Republic of Korea. ¹Oak Ridge National Laboratory, ²Department of Physics, University of Suwon, Hwaseong, Gyeonggi-do 445-743, Korea. ³Department of Physics, Soongsil University, Seoul 156-743, Korea)

P2-D073*

Atomic Scale Observation of Pb(Zr_{0.52}Ti_{0.48})O₃ Nanocrystals Grown onto the Surface of Carbon Nanotubes using Sol-gel Technique / HAN Jin Kyu, JEON Do Hyun, KWAK Jin Ho, BU Sang Don(Department of Physics, Chonbuk National University)

P2-D074*

Synthesis of Epitaxial Tungsten Oxide Thin Films / YANG Chan-Ho, YUN Shin Hee¹, WOO Chang-Su¹, LEE Jin Hong¹, KIM Gwang Eun¹(Department of Physics, KAIST, Institute for the NanoCentury, KAIST.

¹Department of Physics, KAIST)

P2-D075*

Emission and electronic structure of Mn doped SrZrO₃ / 조민현, 이윤상(송실대학교, 물리학과)

P2-D076

방사광을 이용한 전하밀도파 RTe₂ (R=Ce, Pr)의 각분해 광전자 분광 연구 / 이은숙, 김대현, 전준형, 민병훈¹, 권용성¹, DENLINGER J.D.², 강정수(가톨릭대학교, 물리학과. ¹대구경북과학기술원. ²Lawrence Berkeley National Laboratory, USA)

P2-D077

Luminescent Properties of Boron and Phosphorus Doped Si-NC/SiO₂ Multi-layers by Ion Implantation / JOO BeomSoo, JANG Seunghun, JEONG Jiwoon, HAN MoonSup(University of Seoul, Department of Physics)

P2-D078

Adsorption of Mg on single layer graphene formed on SiC(0001) / 김성훈, 성시진, 이평로, 김진걸, 류민태, 박희민, 정진욱(POSTECH)

P2-D079

RF-Magnetron Sputtering방법을 이용한 ETFE 친수 특성 / 최명규, 백철흠, 배강, 서성보, 김동영, 야오리타오(대구가톨릭대학교 전자디스플레이공학과)

P2-D080

Opening of a band gap of graphene by doping Na⁺ ions / 정진욱, 성시진, 이평로, 김진걸, 류민태, 박희민(Postech)

P2-D081

PLD를 이용한 그래핀 성장 및 특성 측정 / 송종현, 황인웅, 김진희(충남대학교 물리학과. ¹한국표준과학연구원)

P2-D082

First-principles Study on the Diffusion Processes of Metal Nanoclusters on Hydroxylated MgO(001) Surfaces / 유병덕, 전준진(서울시립대학교, 물리학과)

P2-D083*

Synchrotron x-ray mediated synthesis of Au nanoparticles on ZnO nanowires / 강현철, 이무성, 김주현(조선대학교, 신소재공학과)

P2-D084*

In situ x-ray scattering study of the spinodal decomposition in AuNi nano particles / 하성수, 서옥균¹, 강덕호², 손준곤, 강현철³, 노도영(광주과학기술원 물리광학과. ¹광주과학기술원 신소재공학과. ²광주과학기술원 나노바이오재료전자공학과. ³조선대학교 신소재공학과)

P2-D085*

다양한 기판에 FTS(Facing Target Sputtering)방법으로 제작된 AZO박막의 광전 특성에 관한 연구 / YAO LITAO, 최명규, 배강, 서성보, 김동영, 백철흠(대구가톨릭대학교 전자디스플레이공학과)

P2-D086*

Microscopic Mechanism for Asymmetric Charge Distribution in Rashba-type Surface States and The Origin of The Energy Splitting Scale / KIM Beomyoung, KIM Panjin¹, JUNG Wonsig, KIM Yeongkwan, KOH Yoonyoung, KYUNG Wonshik, PARK Joonbum², MATSUNAMI Masaharu³, KIMURA Shin-ichi³, KIM Jun Sung², HAN Jung Hoon¹, KIM Changyoung(Institute of Physics and Applied Physics, Yonsei University, Seoul 120-749, Korea. ¹Department of Physics and BK21 Physics Research Division, Sungkyunkwan University, Suwon 440-746, Korea. ²Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Republic of Korea. ³UVSOR Facility, Institute for Molecular Science and Graduate University for Advanced Studies, Okazaki 444-8585, Japan)

P2-D087*

Role of strain and electric field in phase transition of indium nanowire on Si(111) / 김현중, ZHANG Hui¹, ZHANG Qiang¹, ZHU Hongbin¹, CHEN Yueru¹, ZENG Changgan¹, ZHANG Zhenyu², 조준형(한양대학교, 물리학과. ¹University of Science and Technology of China, Hefei National Laboratory for Physical Sciences at the Microscale and Department of Physics. ²University of Science and Technology of China, International Center for Quantum Design of Functional Materials)

2013년 10월 31일 목요일 11:00 – 12:45

장소: 포스터 발표장

P2-E029

Polydopamine Coated Graphene/MOS₂ Hybrid Nanosheets with Improved Electrochemical Performances / LINGAPPAN Niranjnath, KANG Dae Joon(Department of Physics, Institute of Basic Sciences, Sungkyunkwan University, Korea)

P2-E030*

A Facile Sol-gel Method for Synthesis of Porous Nd-doped TiO₂ Monolith with Enhanced Photocatalytic Activity under UV-Vis Irradiation / HE Wen, DU Jimin¹, KANG Dae Joon²(Department of Physics, Institute of Basic Sciences, Sungkyunkwan University, Korea. ¹School of Chemistry and Chemical Engineering, Anyang Normal University, Henan Province, P. R. China. ²Department of Physics, Institute of Basic Science, Sungkyunkwan University, Korea)

P2-E031*

Mesoporous TiO₂ spheres/Multiwall Carbon nanotubes composite As Anode for High performance Lithium Ion Battery / NGUYEN Thi Hong Trang, ALI Zahid, LINGAPPAN Niranjnath, KANG Dae Joon(Department of Physics, Institute of Basic Sciences, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, Korea)

P2-E032*

Vibrational and Thermal Properties of Graphynes / KIM Cheol-Woon, KANG Seung-Hun, LEE Hyun-Soo, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

P2-E033

Enhancement Of Electrical Conductivity In Multi-layered Graphene Oxide By Thermal Reduction / BAEK Seungjae, HONG Won G.¹, PARK Min, KANG Hojin, KIM Byung Hoon², PARK Yung Woo(Seoul National University. ¹KBSI. ²Incheon National University)

P2-E034*

Enhancement of photovoltage in MoS₂ field-effect-transistor / JANG A-Rang, YOON Seong In¹, KIM Gwang Woo¹, SHIN Hywon Suk¹, KANG Dae Joon²(Department of Physics, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, Korea. ¹Interdisciplinary School of Green Energy, Ulsan National Institute of Science and Technology, Ulsan, Korea. ²Department of Physics, Institute of Basic Sciences,

Sungkyunkwan University, Korea)

P2-E035

Understanding of Pattern Replication based on Electrohydrodynamic Lithography by a Computer Simulation / MOON Choong Man, LEE Suok, KANG Dae Joon(BK21 Physics Division, Institute of Basic Sciences, Sungkyunkwan University)

P2-E036

Photocurrent in graphene photodevices on hexagonal boron nitride / CHOI Sun Keun, KIM Minjung, YOON Ho Ang¹, LEE Sang Wook¹, CHEONG Hyeonsik(Department of Physics, Sogang University. ¹Division of Quantum Phases and Devices)

P2-E037*

Raman spectra of few-layer graphene with ABA- and ABC-stacking orders under the influence of excitation energy / CHEONG Hyeonsik, NGUYEN The An, LEE Jae-Ung, YOON Duhee¹(Department of Physics, Sogang University. ¹Engineering Department, University of Cambridge)

P2-E038*

Raman and PL spectra of single- and few-layer MoS₂ thin films / CHEONG Hyeonsik, PARK Jaesung, LEE Jae-Ung(Department of Physics, Sogang University)

P2-E039*

Work function change of multilayer graphene by RF plasma treatment / KWON Dae-Gyeon, KIM Ji-Hoon, HONG Jong-am, MAENG Min-Jae, JEON Ji-Hee, HWANG Joohyun¹, MOON Jaehyun¹, LEE Jeong-Ik¹, JUNG Dae Yool², CHOI Hong Kyw², CHOI Sung-Yool², PARK Yongsup(Kyung Hee University, Department of Physics and Research Institute for Basic Sciences. ¹OLED Research Center, Electronics and Telecommunications Research Institute. ²Department of Electrical Engineering, Korea Advanced Institute of Science and Technology)

P2-E040*

Thermal annealing effects in conjugated Light Emitting Polymers films / SECK Ngor Mbaye, KIM Ajeong, KANG Jinback, AHN Gukil, CARNIS Jerome, CHA Wonsuk, SHIN Taejoo¹, KIM Jinwoo², KIM Hyunjung(Department of Physics, Sogang University, Seoul 121-742, Korea. ¹Pohang Light Source, Pohang Accelerator Laboratory, Pohang 790-834, Korea. ²National Core Research Center for Extreme Light Applications, Gwangju Institute of Science and Technology, Gwangju 500-712, Korea)

P2-E041*

Sol-gel 법으로 제작된 LaAlO_x 박막의 유전율 함수에 대한 타원편광분석 연구 / 박재찬, 김태중, 변준석, 김준영, 황수민¹, 이승목², 주진호³, 김영동(경희대학교 물리학과 나노광물성연구실, ¹성균관대학교 신소재공학과)

P2-E042

ARPES study on a graphene/ topological insulator ($\text{Bi}_2\text{Te}_3\text{Se}$) / 이 팡로, 성시진, 김진걸, 류민태, 박희민, 정진욱, 김남동¹, 김용삼(포항공대, 물리학과, ¹포항가속기연구소)

P2-E043*

OLED의 기판 유리에 적용된 마이크로 피라미드 배열과 ITO, ETL 두께에 따른 광추출효율 향상 효과에 대한 시뮬레이션 연구 / 박건우, 고재현(한림대학교, 물리학과)

P2-E044

교류 전압 OLED의 최적 구동 주파수와 발광 메커니즘의 연구 / 권오태, 황덕현, 김태완(홍익대학교, 정보디스플레이공학과)

P2-E045*

Spin Transport In Lateral Organic Spin Valves Fabricated By Tilted Deposition Method / YOO Jung-Woo, JO Junhyeon, JIN Mi-Jin, PARK jungmin, MODEPALLI Vijayakumar(울산과학기술대학교, 기계신소재공학과)

P2-E046*

Lifetime and efficiency enhancement in organic solar cell prepared by electrospray deposition technique / LEE Younjoo, JUNG Kwanwook, YOUN Yungsik, YI Yeonjin(연세대학교, 물리학과)

P2-E047

Investigation of Electrical Properties of Fullerene/Bathocuproine in Small Molecule Solar Cells / LEE Jeihyun, KIM Hyein, JEONG Kwangho, YI Yeonjin(Institute of Physics and Applied Physics, Yonsei University)

P2-E048

Observation of Trapped Charge in Organic Devices by Nonlinear Optical Polarization / 복문정, 다구찌다이¹, 이와모토미즈마사¹, 임은주(단국대학교 응용물리학과, ¹동경공업대학 물리전자공학과)

P2-E049

Effects of Organic Materials Used in the Synthesis Procedures on the Emission of CdSe Quantum Dots / 홍경수, 이재원¹, 이민정¹, 양호순¹(한국기초과학지원연구원 부산센터, ¹부산대학교 물리학과)

P2-E050*

Axially Doped p- and n-type on a Single Si Nanowire for High Performance Diodes and CMOS Inverter Device Applications / NGOC Huynh Van, LEE Jae Hyun¹, HWANG Dongmok¹, KANG Dae Joon²(Department of Physics, Institute of Basic Sciences, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, Korea. ¹School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, Korea. ²Department of Physics, Institute of Basic Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, Korea)

P2-E051

Enhanced Photocatalytic Property via Coating Te Superthin Layer on ZnO Nanoflakes / YAN Changzeng, NGOC huynh Van, TRANG Thi hong, KANG Dae Joon(BK21 Physics Research Division, Institute of Basic Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University)

P2-E052

Reduction-oxidation reaction mechanism of Pt-TiSi and Pt-ZrSi catalysts at high temperature using in-situ XAFS / JEONG Eun-Suk, KIM Mi-Young¹, CHOI Jae-Soon¹, PARK Chang-In, HAN Sang-Wook(Institute of Fusion Sciences, Institute of Science Education and Division of Science Education, Chonbuk National University. ¹Oak Ridge National Laboratory, Fuels, Engines and Emissions Research Center)

P2-E053

Photocatalytic Activity of TiO₂ Nanotube (TNT) Array Prepared by E-beam Evaporation of Ti Thin films / KIM Hong Ki, KIM Soon Wook, YOON Young Min, KHOA Nguyen Tri, THUAN Doan van, YOO Dea-Hwang, HAHN Sung Hong(울산대학교, 물리학과)

P2-E054

Efficient visible-light induced photocatalysis on nanoporous nitrogen-doped titanium dioxide catalysts / LEE Hyun Uk, SON Byoungchul, SEO Jung Hye, LEE Jouhahn(Korea Basic Science Institute)

P2-E055

Ultrafast Dynamics Study of Change in Charge Transfer Rate in Organic Molecules Nearby a Hyper-metamaterial / LEE Kwang Jin, KIM Eunsun, CHOI Eunyoung, GWON Minji, WOO Jaeheun, MAZUR Leszek¹, XIAO Y.¹, MATHEVET F.¹, ATTIAS A.-J.¹, RIBIERRE J.-C.², KIM Dong Wook³, KIM Han-Ki⁴, KIM Kihong⁵, WU J. W.³(Department of Physics and CNRS-Ewha International Research Center, Ewha Womans University, Seoul, Korea. ¹Lab. of Polymer Chemistry, University Pierre et Marie Curie, Paris, France. ²Center for

Organic Photonics and Electronics Research, Kyushu University, Fukuoka, Japan.
³Department of Physics and CNRS-Ewha International Research Center. ⁴Dept. Advanced Materials Engineering for Information & Electronics. ⁵Division of Energy Systems Research, Ajou University, Suwon, Korea)

P2-E056*

Multiband metamaterial absorber based on maze structure / 김영주, 정해옥, 유영준, 황지섭, 이주열¹, 김기원², 이영백(한양대학교, 물리학과. ¹성균관대학교, 물리학과. ²선문대학교, 디스플레이공학과)

P2-E057

Effects of material quality and geometrical dimensions on metamaterial absorber / ZHENG H. Y., 김영주, 유영준, 황지섭, 이주열¹, 강지훈², 김기원³, 이영백(한양대학교, 물리학과. ¹성균관대학교, 물리학과. ²국민대학교, 나노 및 전자물리학과. ³선문대학교, 디스플레이공학과)

P2-E058

Is the Exclusion of Diffraction Effects Really Essential for Metamaterial? / 이창현, 이주열, TUONG P.¹, 이영백², 김기원³(성균관대학교, ¹한양대학교, ²선문대학교)

P2-E059*

Gate Bias Dependence of Photocurrent in Tri-layer Graphene with ABA- and ABC-stacking / KIM Minjung, CHOI Seon-Myeong¹, YOON Ho Ang², CHOI Sun Keun, KIM Jung Cheol, LEE Sang Wook², SON Young-Woo¹, CHEONG Hyeonsik(Sogang University, Department of Physics. ¹Korean Institute for Advanced Study, School of Computational Sciences. ²Konkuk University, Division of Quantum Phases and Devices, School of Physics)

P2-E060*

Characterization of 2D materials using wide-filed Raman spectroscopy / CHEONG Hyeonsik, LEE Jae-Ung(Department of Physics, Sogang university)

SESSION P2

통계물리학분과회
포스터 발표

2013년 10월 31일 목요일 11:00 - 12:45

장 소 : 포스터발표장

P2-F001

Network structure of National R&D activity in Korea in terms of research program / AHN Min-Woo, JUNG Woo-Sung(POSTECH)

P2-F002

Expansion and internal dynamics of a flexible polymer in a cylindrical pore / JUNG Youngkyun, HA Bae-Yeun¹(KISTI. ¹University of Waterloo)

P2-F003

The Impact of Heterogeneous Trading And Local Interaction Between Traders In Artificial Double Auction Market / 임규빈, 오갑진¹, 김승환(POSTECH, Department of Physics. ¹조선대학교, Division of Bussiness Administration)

P2-F004

Historical Trend of Popularity in Billboard "Hot 100" Chart / SOH Hyungjoon, JEONG Jaeseung¹, JEONG Hawoong(Department of Physics, KAIST. ¹Department of Bio and Brain Engineering, KAIST)

P2-F005

Reconfiguration of Network Hub Structure after Propofol-induced Unconsciousness / LEE heonsoo, MASHOUR George¹, NOH Gyu-jeong², KIM Seunghwan, LEE uncheol³(Pohang University of Science and Technology. ¹University of Michigan Medical School. ²Asan Medical Center. ³University of Michigan Medical School)

P2-F006*

Web Search Trend Based Social Network Construction / LEE Byung-hwee, KIM Daniel, JEONG Hawoong(Department of Physics, KAIST)

P2-F007*

An analysis on relationship between R&D investment behavior and Firm's value based on industry sector / 오갑진, 이효선, 김호용(조선대학교, 경영학부)

P2-F008*

Portfolio selection using complex network method / 오갑진, 안석원, 김호용(조선대학교, 경영학부)

P2-F009*

Analyze the relationship between weather effect and industry sector in Korean stock market / 오갑진, 정유, 김호용(조선대학교, 경영학부)

P2-F010*

Contagion effect of industry sector in Korean stock market / 오갑진, 김호용, 안석원(조선대학교, 경영학부)

P2-F011*

Intra-City Bus Network Analysis on the Korean Cities for Understanding Urban Structures / HONG Inho, JUNG Woo-Sung(Dept. of Physics, POSTECH)

P2-F012

Investigation of Road Networks in two Korean cities: Pohang and Changwon / JUNG Woo-Sung, LEE Byounghwa(POSTECH)

P2-F013*

Costly Bilingualism Model on Hierarchical Scale-Free Networks / ROH Myung Kyoon, KIM Young Jin, SON Seung-Woo(한양대학교)

P2-F014

Analysis of spreading scientific idea to human society by using big data of digitized books / YUN Jinhyuk, KIM Pan-Jun¹, JEONG Hawoong²(Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon 305-701. ¹Asia Pacific Center of Theoretical Physics, Pohang, Gyeongbuk 790-784, Korea. ²Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Korea)

P2-F015

Analyses of future prices in the structure of group correlations / 김경식, 임규성(부경대학교, 물리학과. ¹한국과학기술원, 물리학과)

P2-F016

Brain Functional Connectivity of Sleep Dynamics / KIM Minkyung, SHIN Jeongkyu, KIM Seunghwan(Department of Physics, POSTECH)

P2-F017*

Global Analysis of Human Nutrition and Diet: What the Human Body Wants / KIM seunghyeon, FOO Mathias, JIN Yong-Su¹, KIM Pan-Jun(Asia Pacific Center for Theoretical Physics, Korea. ¹Dept. of Food Science and Human Nutrition, University of Illinois, Urbana-Champaign, USA)

P2-F018

Effect of Small-World Connectivity on Sparsely Synchronized Cortical Rhythms in A Network of Fast Spiking Izhikevich Interneurons / LIM Woorchang, KIM Sang-Yoon¹(Daegu National University, Department of Science Education. ¹LABASIS Corporation, Research Division)

P2-F019*

Generalized Epidemic Process with Social Reinforcement and Modular Network Topology / CHUNG Kihong, BAEK Yongjoo, KIM Daniel, HA Meesoon¹, JEONG Hawoong²(Department of Physics, KAIST. ¹Department of Physics Education, Chosun University. ²Department of Physics and Institute for the BioCentury, KAIST)

P2-F020*

Does a 1D dynamic phase transition exist for Ising degrees of freedom coupled to KPZ growth? / BAEK Yongjoo, HA Meesoon¹, JEONG Hawoong, PARK Hyunggyu², DEN NIJS Marcel³(Department of Physics, KAIST. ¹Department of Physics Education, Chosun University. ²School of Physics, KIAS. ³Department of Physics, University of Washington)

P2-F021

1/f noise in the Bak-Sneppen model due to inertia effect / 이재환, 곽우섭(숭실대학교 의생명시스템학부. ¹조선대학교 물리학과)

P2-F022*

Theoretical Analysis of Spiking Dynamics in Star-like Clustered Neural Network / KIM Seunghwan, KIM Junhyeok, LEE Dongmyeong¹(Dept. of Physics, POSTECH. ¹KIST)

P2-F023

Limiting-law Excess Sum Rule For Polyelectrolytes / LEE Yongjin, JHO Yongseok, LANDY Jonathan¹(APCTP; Department of Physics, POSTECH. ¹Materials Department, University of California)

P2-F024

Movement behaviors of Zebrafish in different size and locations of arena in response to chemical stress / QUACH Quang Kha (Department of Biological Sciences, Pusan National University, Busan 609-735)

P2-F025

Analyses of Zebrafish (Danio rerio) behavior in response to obstacles / CHO Woon-Seok, KIM Hungsoo¹, QUANG Quack Kha, LEE Sang-Hee², CHON Tae-Soo(Department of Biological Sciences, Pusan National

University, Busan 609-735, Republic of Korea. 'National Robotics Research Center, Pusan National University, Busan 609-735, Republic of Korea. 'Division of Fusion Convergence of Mathematical Sciences, National Institute for Mathematical Sciences, Daejeon 305-811, Korea)

P2-F026

Response Behavior of *Caenorhabditis elegans* after Exposure to a Chemical Stressor (Benzene) / KIM Bo-Moon, KIM hungsoo¹, KWAK Gyu-Suk, CHON Tae-Soo(Department of Biological Sciences, Pusan National University, Busan 609-735, Republic of Korea. 'National Robotics Research Center, Pusan National University, Busan 609-735, Republic of Korea)

P2-F027

Population Balancing with Switching / SONG Juyong, HOANG Danh-Tai¹, KIM Jongwook¹, JO Junghyo(APCTP, POSTECH, Department of Physics. 'APCTP)

P2-F028

Depletion-induced compaction of a flexible polymer confined in a cylindrical pore / KIM Juin, JEON Chanil¹, JEONG Hawoong, JUNG Youngkyun², HA Bae-Yeun¹(KAIST, Department of Physics. 'University of Waterloo, Department of Physics and Astronomy. ²KISTI, Supercomputing Center)

P2-F029

Restricted Solid-on-solid Model with a proper restriction parameter N in 4+1 dimensions / KIM Sang-Woo, KIM Jin Min (Department of Physics and Institute for Integrative Basic Sciences, Soongsil University, Seoul 156-743)

P2-F030

Load Balancing Effect Using MPI in Xeon Phi Coprocessor System / 김진석, 이해준, 이홍석(부산대학교. '한국과학기술정보연구원)

P2-F031*

Dynamics of an Active Particle under a Ratchet Potential / CHOI Saerom, LEE Kong-Ju-Bock, PARK Pyeong Jun¹(Department of Physics, Ewha Womans University. 'School of Liberal Arts and Sciences, Korea National University of Transportation)

P2-F032

Chimera states in ring of coupled chaotic maps / 황동욱(국가수리과학연구소)

P2-F033*

Analysis of win-lose circulations between strategies in iterated prisoners; dilemma games / KIM Young Jin, ROH Myungkyoon, SON Seung-Woo(Hanyang University)

SESSION P2

물리교육분과회
포스터 발표

2013년 10월 31일 목요일 11:00 - 12:45

장 소 : 포스터발표장

P2-G001

중학교 과학 교과서에서 광선 생략 그림의 수정에 따른 학생들의 개념 차
이 / 구지애(한국교원대학교)

P2-G002

외적표상 변환활동이 일과 에너지의 개념이해와 표상활용도에 미치는 영
향 / 윤성현, 최세희(한국교원대학교 물리교육과)

P2-G003

융합과학교과서의 내용요소 보완에 관한 제안 (기본입자와 원자의 형성) /
변지연, 장석현, 김기식(인하대학교, 물리학과)

P2-G004

융합과학 교과서의 '기본입자와 원자의 형성 영역'을 중심으로 내용요소
보완에 관한 제안 / 변(BYON) 지연(Ji-Yon)(인하대학교, 물리학과)

P2-G005*

고등학교 물리 교사들이 융합형 과학 수업에서 겪는 어려움 분석 : '기초
과학과 기술의 관계'를 중심으로 / 문영주, 이종봉, 이경호(서울대학교, 물리교
육과)

P2-G006

힘의 작용법칙과 동양과학의 오운육기도: 동양과학의 과학성 연구와 교육
학적 필요성 / 박기순, 이우봉(경북대학교, 과학교육학과)

P2-G007

물리학적 관점에서 본 등·서양과학의 시공간 개념과 교육학적 의의 / 박
기순, 이우봉(경북대학교 과학교육학과)

P2-G008

해외사례를 통해 분석해 본 마이크로중력 활용 과학교육연구 / 김소연, 이
주희(한국항공우주연구원)

P2-G009

2009 개정교육과정 중학교 과학교과서에 수록된 어휘를 중심으로 교과서
편수자료, 물리학 용어집, 표준국어대사전의 물리 용어 구분 일치도 분석
/ 윤은정, 박윤배(경북대학교)

SESSION P2

플라스마물리학분과회
포스터 발표

2013년 10월 31일 목요일 11:00 - 12:45

장소: 포스터 발표장

P2-H001

PAL 선형가속기 Pre-injector 전하량 측정용 FCT Auto Tracking 프로
그램 / 최효진, 손윤규, 길계환, 이병준, 김창범(포항공속기연구소)

P2-H002

포항방사광가속기-II 4B 빔라인의 X-선 미세 실험을 위한 초정밀 소형 인
장시험기시스템 / 길계환, 정명호, 최효진, 이해철, 임재홍(포항공속기연구소)

P2-H003*

레이저-이온 가속 시뮬레이션에서의 프리플라즈마 효과 / 허민섭, 김영국
(UNIST)

P2-H004*

Experimental Study on a TE_{6,2} to HE₁₁ Mode Converter via Free
Space Gaussian Mode Conversion using a Quasi-Optical System
at W-band / KIM Dongsung, KIM Sunggug¹, KIM Kwanghoon¹, KIM Jung
Ho², SO Joonho³, LEE Woosang³, CHOI Eunmi(UNIST, Department of Physics.
¹UNIST, Department of Electrical Engineering. ²LIG Nex1. ³Agency for Defense
Development)

P2-H005

Three-dimensional simulation of a free-electron laser oscillator
based on a harmonic wiggler magnetic field / KIM Ki-Bum, NAM
Soon-Kwon(Institute of Liberal Education, Kangwon National University.
¹Department of Physics, Kangwon National University)

P2-H006

ISOL 빔라인 빔광학 계산 : 장지호, 권혁중, 김한성, 조용섭(한국원자력연구원)

P2-H007

Highly stable carbon nanotube field emitters on small metal tips
against electrical arcing / 하준목, 조성오(한국과학기술원 (KAIST), 원자력
및 양자공학과)

P2-H008*

Investigation of 6MeV X-band Side Coupled LINAC Using Three-
Dimensional PIC Simulation / 신동원, 허민섭, 전석기, 김정일, 김근주,
김재홍(울산과학기술대학교, '한국전기연구원)

P2-H009

Simulation study of injection and beam delivery line for a 70 MeV H-cyclotron / 홍성광, 김재홍, 김중원(Rare Isotope Science Project (RISP), Institute for Basic Sciences (IBS))

P2-H010*

Design study of a magnetron injection gun (MIG) for a high power W-band gyrotron / LEE Ingeun, KIM Sunggug, WON Jong-hyo¹, SO Joonho², HONG Yongjun², CHOI Eunmi(UNIST, Department of Electrical Engineering. ¹LIG Nex1. ²Agency of Defense Development(ADD))

P2-H011

The test results of Beam Diagnostic System for KBSI Accelerator / LEE Byoung-Seob, PARK Jin Yong, BAHNG Jungbae¹, OK Jung-Woo, CHOI Seyong, SHIN Chang Seouk, YOON Jang-Hee, WON Mi-Sook, KIM En San¹(Korea Basic Science Institute. ¹Kyungpook National University)

P2-H012*

The Higher Harmonic Mode (TEmp, m>>1) Generation in a Cylindrical Cavity via Direct Fundamental Waveguide Coupling in F-band / CHOE MUNSEOK, KIM KWANGHOON¹, CHOI EUNMI¹(Ulsan National Institute of Science and Technology, Physics. ¹Ulsan National Institute of Science and Technology, Electrical Engineering)

P2-H013

초단펄스 양성자 빔 발생을 위한 Electrostatic Deflector 설계 / 김한성, 권혁중, 장지호, 조용섭(한국원자력연구원, 양성자가속기연구센터)

P2-H014

Archive and Alarm System for the KOMAC LINAC / SONG Young-Gi, KWON Hyeok-Jung, JANG Ji-Ho, CHO Yong-Sub(KAERI, KOMA)

P2-H015*

Study of a transversely ellipsoidal bubble and electron trapping of LWFA / 조명훈, 김영국, 허민섭(Unist)

P2-H016

강내 삽입이 가능한 영상용 초소형 X-선 튜브 개발 / 김현진, 하준목, RAZA Hamid Saeed, 조성오(한국과학기술원 원자력 및 양자공학과)

P2-H017

High power test of klystron RF window / 김지현, 배영순¹, 이창호², 성태식³, 황지현², 남궁원³, 조무현³(NFRI, 플라즈마 안정화연구부. ¹NFRI, 연속운전연구부. ²포항공과대학교, 물리학과. ³포항가속기연구소)

P2-H018*

Development of a field following mesh generator for analysis of two dimensional tokamak plasma transport / KIM Young-Jin, YOO Min-Gu, NA Yong-Su(Department of Nuclear Engineering, Seoul National University, Seoul, Korea)

P2-H019

플라즈마 붕괴에 의한 자기적 진단 / 김흥수, 박준교, 윤시우, 한상희, 김재현, 한현선(국가핵융합연구소)

P2-H020*

Comparison of PKA Spectra for the 14 MeV Neutron and 17 MeV Proton in PFC materials / KIM Dong-Woo, LEE Bo-Young, KO Seung-Kook, OH Joo-Hee¹, LEE Hee-Seock¹(울산대학교 물리학과. ¹포항가속기연구소)

P2-H021*

핵융합로 SDS용 SS-316L에 대한 수소동위원소 누설거동 기초 연구 / 온연길, 변우준, 신해원, 이석관, 김희수, 김용민, 노승정, 윤세훈(단국대학교 죽전 센트로 캠퍼스 응용물리학과, 용인 448-701. ¹국가핵융합연구소, ITER 한국사업단)

P2-H022

핵융합로 구조재료에 대한 기체방출특성연구를 위한 TDA(Thermal Desorption Analyser)기초실험 / 김희수, 이석관, 온연길, 변재덕, 서희정, 현준원, 노승정, 박준규, 김도완, 이철익(단국대학교 죽전 센트로 캠퍼스 응용물리학과, 용인 448-701. ¹고려대학교 안암캠퍼스 물리학과, 서울 136-701)

P2-H023

Measurement of poloidal fixed probes of edge region in KSTAR / 배민근, 박준교¹, 홍석호¹, 김흥수¹, 조순국, 강인제, 김진우, 주승규, 이동한, 정규선(한양대학교, 전기공학과. ¹국가 핵융합 연구소, 경계플라즈마연구부)

P2-H024

Drift wave 난류 플라즈마에서 대류성 수송에 관한 탐구 / 민병훈, 안찬용, 김창배(숭실대학교)

P2-H025

Simulations of electromagnetic effects in high-frequency capacitive discharges / LEE Insook(Korea Science Academy of KAIST)

P2-H026*

Improvement of EEDF Measurement using Two Different Collecting Area Langmuir Probes / 노현준, 이석환, 유상원, 김곤호(서울대학교 에너지 시스템 공학부)

P2-H027*

Particle-in-Cell Simulation of High-Voltage Sheath Dynamics of Grid Electrodes / YI Changho, NAMKUNG Won¹, CHO Moohyun²(Dept. of Physics, Postech. ¹Pohang Accelerator Laboratory. ²Dept. of Physics & Division of Advanced Nuclear Engineering, Postech)

P2-H028

Development of Large Area Nano-scale Free-standing Targets for Warm Dense Plasma Experiment / LEE Jong-Won, CHO Byoung-ick, LEE Chang-Lyoul¹(GiST, Department of Physics and Photon Science, HEDP-UFX. ¹APRI, Nano-bio Photonics Laboratory)

P2-H029

Experimental study of the effect of Ar buffer gas on characteristics of laser-produced plasma / 오승용, 임창환(한국원자력연구원 양자광학연구부)

P2-H030*

Ar-Xe 혼합 플라스마의 쉬스와 프리쉬스 사이에 형성된 전이영역에서 이온의 거동 / 김남균, 김곤호(서울대학교, 에너지시스템공학부)

P2-H031

Transition Radiation from the Interaction of Ultraintense Laser and Ultrathin Foil Target / BAE Rijin, CHO Byoung-ick(Gwangju Institute of Science and Technology, Department of Physics and Photon science)

P2-H032

Characterization of N2-H2 flowing afterglow by emission spectroscopy / LEE Jae-yong, OH Soo-ghee¹(아주대학교, 에너지시스템학부 응용물리학과. ¹아주대학교, 물리학과)

P2-H033

High-Voltage Pulse in ECR plasmas with Belt-type Magnet Assembly / LEE H. J., YI C. H., KIM S. B.¹, PARK S. I.¹, YOO S. J.¹, CHO M. H.², NAMKUNG W.³(Dept. of Physics, POSTECH. ¹National Fusion Research Institute. ²Dept. of Physics & Division of Advanced Nuclear Engineering, POSTEC. ³Pohang Accelerator Laboratory)

P2-H034

벼의 키다리병 방제를 위한 아크 방전 플라스마와 오존의 활용 / 강민호, 최효원¹, 신동범², 최은하³, 엄환섭³, 박경순³(광운대학교 전자물리학과. ¹국립농업과학원 작물보호과. ²국립식량과학원 작물환경과. ³광운대학교 플라스마 바이오 과학 연구센터)

P2-H035*

맥스웰 데몬의 전자 흡수 특성에 대한 연구 / 유상원, 김남균, 노현준, 김곤호(서울대학교)

P2-H036

전극 재료 및 노즐 형태에 따른 대기압 플라스마 젯의 방전 특성 연구 / 백은정, 조혜민, 김선자, 정태훈(동아대학교 신소재물리학과)

P2-H037*

대기압 플라스마 젯을 이용한 플라스마-암세포 상호작용 연구: 세포내 ROS 및 세포 주기 변화 / 조혜민, 김선자, 정태훈, 임선희(동아대학교 물리학과. ¹동아대학교 생명과학과)

P2-H038

Particle-In-Cell Simulation Parallelized With Many Integrated Core Architecture / 허민영, 김진석, 이해준, 이홍석(부산대학교 전자전기컴퓨터공학부. ¹한국과학기술정보연구원)

P2-H039

기판 내 산소 영향에 따른 SnO₂ 박막의 비 이상입자 성장 / 정진, 이봉주(조선대학교 물리학과, 광주 501-759)

P2-H040

Al/ZnO 박막의 구조가 광학적 특성 성질에 미치는 영향 / 정진, 이봉주(조선대학교 물리학과, 광주 501-759)

SESSION P3

입자물리학분과회
포스터 발표

2013년 10월 31일 목요일 14:00 - 15:45

장소: 포스터 발표장

P3-B001*

Wire Bonding and Gluing Studies for Silicon Vertex Detector (SVD) of Belle II Experiment / PARK Hwanbae, KANG Kookhyun, JEON Hyebin, UOZUMI Satoru, TSUBOYAMA Toru¹, SATA Nobuhiko¹, TSUTOMU Mibe¹, ONUKI Yoshiyuki², SHIMIZU Nobuhiro², HIGUCHI Takeo², KIM Hongjoo, HYUN hyojung(Kyungpook National University. ¹KEK. ²Kavli Institute for the Physics and Mathematics of the Universe)

P3-B002*

Bell II SVD 테스트 모듈 제작 / 가동하, 전해빈, 김홍주, 박한배, 우오즈미 사토루, 현효정, 강국현(경북대학교, 물리학과)

P3-B003

Study on Pair Production of Supersymmetric Bosons sqrt(s)=8TeV at the CMS Experiment / 이준수, 김재률, 임인택, 김재호, 송상현, 오건희(Chonnam National University)

P3-B004*

The CMS RPC Upgrade During First Long Shutdown / 김동현(성균관대학교 물리학과)

P3-B005

Measurement of The Initial Parton Fraction of ttbar Events in Lepton+jets Channel / LIM Jaehoon, CHO Sungwoong, CHOI Suyong, YOUN Sungwoo¹(Korea University. ¹Fermi National Accelerator Laboratory)

P3-B006*

Measurement of the top quark mass using Jpsi-in-jet at LHC / 박인규, 류건모, 김지현, 류민상, 이상훈, 최민규, 이장배, 최기진(서울시립대학교 물리학과)

P3-B007*

Search For The Standard Model Higgs Boson In The u+u- Decay Channel In pp Collisions / LEE Jangbae, PARK Inkyu, RYU Minsang, KIM Jihyun, LEE Jason, CHOI Minkyoo, RYU Geonmo, CHOI Kijin(University of Seoul, Department of Physics)

P3-B008

한국 CMS Tier2 센터의 운영 및 운영 효율성 제고 연구 / 한대희, 송지환,

박향규, 김귀년, 손동철(경북대학교, 고에너지물리연구소)

P3-B009

Optimization of the Gas System in the CMS RPC Detector at the LHC / 이승현, 유인태, 김민석, 서지웅, 황찬욱(성균관대학교)

P3-B010*

GEM Trigger Software / CHOI Kijin, RYU Minsang¹, KIM Jihyun, LEE Sanghoon, CHOI Minkyoo, RYU Geonmo, LEE Jangbae, PARK Inkyu(University of Seoul, Department of Physics. ¹Chonbuk National University, Department of Physics)

P3-B011

E14 실험에서 Inner Main Barrel 검출기 제작 및 현황 / 고재우, 우종관, 김용주, 안정근¹, 이효상², 정명산², 김은주³, 손재성, 임계엽⁴(제주대학교 물리학과. ¹부산대학교 물리학과. ²한양대학교 물리학과. ³전북대학교 과학교육학부(물리전공). ⁴KEK)

P3-B012

Development of Water-based Liquid Scintillator / 김바로, 김봉건(전남대학교 물리학과)

P3-B013*

Stability of energy calibration at RENO / 이순규, 김수봉, 김상용, 박정식, 서선희, 서현관, 이동하, 최선호, 최원국, 김우영¹, 세르게이체바토로프¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 양장희⁸, 유인태⁹, 최영일⁹, 김영덕⁹, 마경주⁹, 전은주⁹, 김바로¹⁰, 박령균¹⁰, 김재률¹⁰, 소선행¹⁰, 송수형¹⁰, 신창동¹⁰, 여인성¹⁰, 임인택¹⁰, 주경광¹⁰, 김현수¹¹, 김시연¹², 고영주¹²(서울대학교. ¹경북대학교. ²경상대학교. ³광주과학기술원. ⁴동신대학교. ⁵부산대학교. ⁶서경대학교. ⁷서영대학교. ⁸성균관대학교. ⁹세종대학교. ¹⁰전남대학교. ¹¹전북대학교. ¹²중앙대학교)

P3-B014

Study of Reactor Neutrino Detection Efficiency using Neutron Capture by Hydrogen at RENO / 신창동, 김바로, 박령균, 김재률, 소선행, 송수형, 여인성, 임인택, 주경광, 김우영¹, 세르게이체바토로프¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 김상용⁸, 김수봉⁸, 박정식⁹, 서선희⁹, 서현관⁹, 이동하⁹, 이순규⁹, 최선호⁹, 최원국⁹, 양장희⁹, 유인태⁹, 최영일⁹, 김영덕⁹, 마경주¹⁰, 전은주¹⁰, 김현수¹¹, 김시연¹², 고영주¹²(전남대. ¹경북대. ²경상대. ³GIST. ⁴동신대. ⁵부산대. ⁶서경대. ⁷서영대. ⁸서울대. ⁹성균관대. ¹⁰세종대. ¹¹전북대. ¹²중앙대)

P3-B015*

Study of uncertainties in reactor antineutrino flux calculation at RENO / 고영주, 김시연, 김우영¹, 세르게이체바토로프¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 김상용⁸, 김수봉⁸, 박정식⁹, 서선희⁹, 서

현관⁸, 이동하⁹, 이순규⁸, 최선호⁸, 최원국⁸, 양장혁⁹, 유인태⁹, 최영일⁹, 김영덕¹⁰, 마경주¹⁰, 전은주¹⁰, 김바로¹¹, 박령균¹¹, 김재률¹¹, 소선행¹¹, 송숙형¹¹, 신창동¹¹, 여인성¹¹, 임인택¹¹, 주경광¹¹, 김현수¹²(중앙대학교, ¹경북대학교, ²경상대학교, ³광주과학기술원, ⁴동신대학교, ⁵부산대학교, ⁶서경대학교, ⁷서영대학교, ⁸서울대학교, ⁹성균관대학교, ¹⁰세종대학교, ¹¹전남대학교, ¹²전북대학교)

P3-B016

Study of Gd loaded liquid scintillator in the RENO detector / 소선행, 김우영¹, 체바토로프세르게이¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 김상용⁸, 김수봉⁸, 박정식⁸, 서선희⁸, 서현관⁸, 이동하⁹, 이순규⁸, 최선호⁸, 최원국⁸, 양장혁⁹, 유인태⁹, 최영일⁹, 김영덕¹⁰, 마경주¹⁰, 전은주¹⁰, 김바로¹¹, 박령균¹¹, 김재률¹¹, 송숙형¹¹, 신창동¹¹, 여인성¹¹, 임인택¹¹, 주경광¹¹, 김현수¹¹, 김시연¹², 고영주¹²(전남대학교, ¹경북대학교, ²경상대학교, ³광주과학기술원, ⁴동신대학교, ⁵부산대학교, ⁶서경대학교, ⁷서영대학교, ⁸서울대학교, ⁹성균관대학교, ¹⁰세종대학교, ¹¹전북대학교, ¹²중앙대학교)

P3-B017

R&D Study on ⁶Li-loaded Liquid Scintillator / 송숙형, 김승찬, 주경광(전남대학교 물리학과)

P3-B018

Production of Liquid Scintillator for SBL Prototype Detector / 여인성, 주경광(전남대학교, 물리학과)

P3-B019*

Event Rate Monitoring at RENO / 이동하, 김상용, 김수봉, 박정식, 서선희, 이순규, 최선호, 최원국, 김우영¹, 세르게이체바토로프¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 안정근⁵, 박강순⁶, 장한일⁷, 양장혁⁹, 유인태⁹, 최영일⁹, 김영덕¹⁰, 마경주¹⁰, 전은주¹⁰, 김바로¹⁰, 박령균¹⁰, 김재률¹⁰, 소선행¹⁰, 송숙형¹⁰, 신창동¹⁰, 여인성¹⁰, 임인택¹⁰, 주경광¹⁰, 김현수¹¹, 김시연¹², 고영주¹²(서울대학교, ¹경북대학교, ²경상대학교, ³광주과학기술원, ⁴동신대학교, ⁵부산대학교, ⁶서경대학교, ⁷서영대학교, ⁸성균관대학교, ⁹세종대학교, ¹⁰전남대학교, ¹¹전북대학교, ¹²중앙대학교)

P3-B020

Heavy Ion Simulation Study of the Target and Secondary Beam Using Geant4 / KIM Kyungho, KWON Youngjoon, CHO Kihyeon¹(Yonsei University, ¹KISTI)

P3-B021

Measurement of the branching fractions of $B^+ \rightarrow K^+(c\bar{c}b) \rightarrow K^+pp\bar{b}$ decays / 이재금, OLSEN Stephen Lars, Li Jin, 최수경¹, 김봉호, 주창우(서울대학교 물리천문학부, ¹경상대학교 물리학과)

P3-B022

DC-DC Converter in g-2 Experiment / LEE WOODO, WON EUNIL,

MIBE TSUTOMU¹, SAITO NAOHITO¹, SASAKI KEN'ICHI¹(Department of Physics, Korea University, ¹KEK)

P3-B023

Wave Function of The Universe in Kappa Deformed Theory / JEONG Jin Woong(Kyung Hee University, Department of Physics)

P3-B024*

Microscopic black holes at the LHC with bulk Standard Model fields in warped extra dimensions / KANG DongWoo, HYUN Young-Hwan, LEE Seunghak, GOH Junghwan, HWANG Chanwook, PARK SeongChan, YU intae(Department of Physics, Sungkyunkwan University)

P3-B025

Theoretical Predictions of the Wpt Cross sections of pp Collisions at 8 TeV / PARK Sang-il, LEE SangEun, BUTANOV Khakimjan, YUSUPOV Hamid, SON Dongchul, KIM Guinyun(경북대학교 물리학과)

P3-B026

Study of Randall-Sundrum Black Hole Signatures at the LHC Using Modified Charybdis Monte-Carlo Simulator / HWANG Chanwook, GOH Junghwan, YU Intae, PARK Seong Chan, HYUN Young-Hwan, KANG Dong Woo, LEE Seung Hak(Department of Physics, Sungkyunkwan University)

SESSION P3

원자핵물리학분과회
포스터 발표

2013년 10월 31일 목요일 14:00 - 15:45

장소: 포스터 발표장

P3-C001

Relativistic Analysis of Proton Elastic Scatterings from Polarized

^{20}Ne / 심숙이, 김문원(공주대학교 물리학과)

P3-C002

Relativistic Analyses of 2^+ Gamma Vibrational Band States of

^{20}Ne / 심숙이, 김문원(공주대학교 물리학과)

P3-C003

Low-lying structures of the nuclei ^{128}Ba and ^{132}Ce / 이수연, 이종환(동

의대학교 물리학과)

P3-C004*

The Measurement of D^0 Meson in P+P Collisions at $\sqrt{s}=200$ GeV using the VTX in the PHENIX Experiment at RHIC / 문태봉

(Yonsei University, RIKEN, for the PHENIX collaboration)

P3-C005

Nal(Tl) 섬광 검출기를 이용하여 차폐체(Al, Pb)의 두께에 따른 감마선 Buildup factor 측정 / 김석한, 김란영, 윤정란, 노태익(동아대학교 신소재물리학과)

P3-C006

거리의 역자승 법칙을 원통형Nal(Tl) 신타레이션 검출기로 측정했을 때 나타나는 오류의 분석 / 김란영, 김석한, 윤정란, 노태익, 이삼열(동아대학교, 신소재물리학과, '동서대학교, 방사선학과)

P3-C007

다양한 조건에 따른 초기핵 방사선의 중성자 및 감마선 도즈량 계산 / 정희수, 심우섭(국방과학연구소, 화생방기술부)

P3-C008*

Development of SSD in Emulsion-Hybrid System at J-PARC / LEE Jaeyong, TANIDA Kiyoshi¹, KIUCHI Ryuta¹, WATABE Toyoki²(Department of Physics and Astronomy, Seoul National University for J-PARC E07 Collaboration. ¹Department of Physics and Astronomy, Seoul National University. ²Nagoya University)

P3-C009

Study of Spin-Parity of the $\Lambda_{c}(2765)^+$ with Belle / JOO Changwoo, TANIDA Kiyoshi, KATO Yuji¹(Seoul National University ¹Nagoya University)

P3-C010*

The role of dibaryon field and the momentum cut-off in pionless EFT / IN Eunjin, PARK Tae Sun¹, HONG Seung-Woo¹(Department of Energy Science, Sungkyunkwan University. ¹Department of Physics, Sungkyunkwan University)

P3-C011

Study of heavy quark production at forward-rapidity in Au+Au collisions at $\sqrt{s(\text{NN})}=39$ and 62 GeV / 김현중, 강주환, 임상훈, 도재현, 문태봉(연세대학교, 물리학과)

P3-C012

Measurement of efficiency using Tag&Probe method in heavy-ion collisions / 오건희, 송상현, 이준수, 김재률, 임인택(Chonnam National University)

P3-C013

Introduction to the pixel design of the pixel sensor for the ALICE ITS upgrade / KWON Y., SONG M. K.¹, KIM D. H.¹, HWANG I. K.¹(Dept. of Physics, Yonsei University, for the ALICE collaboration. ¹Dept. of Semiconductor Science, Dongguk University, for the ALICE collaboration)

P3-C014

Pixel signal conditioning and processing of the pixel sensor for the ALICE ITS upgrade / HWANG I. K., KIM D. H., KWON Y.¹, SONG M. K.(Dept. of Semiconductor Science, Dongguk University, for the ALICE collaboration. ¹Dept. of Physics, Yonsei University for the ALICE collaboration)

P3-C015

천체핵물리학적으로 중요한 Radiative capture 반응 연구들에 대한 KOBRA (Risp low-energy spectrometer)의 활용 / 문준영, 김용균, 권영관, 코마츠바라테츠오, 정인일, 김용학, 박준식(기초과학연구원)

P3-C016

Al2O3:C TL의 TR-OSL을 이용한 열 소광 보정 연구 / 홍덕균, 이용주(강원대학교, 물리학과)

P3-C017*

Development and Performance Test of Analysis Software for the

CRIB Active Target: LEE Pilsoo, LEE Chun Sik, MOON Jun Young¹, CHAE Kyung Yuk², CHA Soo Mi², YAMAGUCHI Hidetoshi³, NAKAO Taro³, KAHL David³, KUBONO Shigeru⁴, CHERUBINI Silvio⁵, HAYAKAWA Seiya⁵, SIGNORINI Cosimo⁶(Department of Physics, Chung-Ang University. ¹Institute for Basic Science, Yuseong-daero 1689-gil, Yuseong-gu, Daejeon 305-811. ²Department of Physics, SungKyunKwan University. ³Center for Nuclear Study, the University of Tokyo, RIKEN Campus, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan. ⁴The Institute of Physical and Chemical Research (RIKEN). ⁵Laboratori nazionali del Sud-INFN, Catania, Italy. ⁶Physics Dept. of the University and INFN, Padova, Italy via Mazolo 8, 35131, Padova, Italy)

P3-C018

Implementation of a monitor chamber readout system used for the beam monitoring at a radiation generator / LEE Mu-Jin, LEE Man-Woo, KANG Sang-Koo, MOON Young-Min, KIM Hyo-Jin, LIM Heuijin, KANG Yeong-Rok, YANG Kwang-Mo, JEONG Dong-Hyeok(Dongnam Inst. of Radiological & Medical Sciences, Research center)

P3-C019*

Constructing and commissioning of a fast ionization chamber / GWAK Minsik, CHAE Kyungyuk, CHA Soomi(Physics department, Sungkyunkwan University)

P3-C020

SAAD-POSL Analyst 프로그램 개발 / 김명진, 이용주¹, 홍덕균²((주)네오시스 코리아, 방사선응용연구센터. ¹강원대학교, 물리학과)

P3-C021*

Double peaks separation method using the unfolding / KIM Hyo-Jin, RO Tae-Ik, JEONG Dong-Hyeok¹, LEE Man Woo¹, KANG Yeong-Rok¹, KIM Jeung-Kee¹, KIM Guinyun²(Department of Physics, Dong-A University. ¹Research center, Dongnam Inst. of Radiological & Medical Sciences. ²Department of Physics, Kyungpook Nat. University)

P3-C022

Am-241, Cf-252 선원을 이용한 MICROMEGAS 알파 검출 및 스펙트럼 비교 분석 / KIM Doyoon, BAK Sang-In, IN Eunjin, SHIN Jae Won, ANDRIAMONJE Samuel¹, PARK Tae-Sun, KADI Yacine, TENREIRO Claudio, HONG Seung-Woo(Sungkyunkwan University, Department of Energy Science, Suwon 440-746, Korea. ¹CERN, Geneva, Switzerland)

P3-C023*

Polystyrene을 이용한 대면적 플라스틱 섬광체 개발 / 김홍주, 채규한, 문명국¹, 김영덕², 박강순²(경북대학교, 물리학과. ¹중성자과학연구부, 원자력연구원. ²핵입자천체물리학 지하실험연구단, 기초과학연구원)

P3-C024

Geant4 simulations of the experiment for search of the nuclear resonant absorption of solar axions with ⁸³Kr / ALI Luqman, KIM H. J., KOBYCHEV V. V.¹, GAVRILYUK Yu. M.², GANGAPSEV A. M.², KAZALOV V. V.², KUZ' MINOV V. V.², TEKUEVA Dj. A.², YAKIMENKO S. P.², PANASENKO S. I.³, RATKEVICH S. S.³, KIM Y.D.⁴(Department of Physics, Kyungpook National University, Daegu, Republic of Korea. ¹Department of Physics, Kyungpook National University, Daegu, Republic of Korea, Institute for Nuclear Research (NAS Ukraine), Kiev, Ukraine. ²Baksan Neutrino Observatory INR RAS, Russia. ³Karazin Kharkiv National University, Kharkiv, Ukraine. ⁴Institute of Basic Science, Daejeon, Republic of Korea)

P3-C025

Growth and luminescence properties of large size NaI:Tl crystal / RA Se Jin, KIM Y.D., KIM H.J.¹, KHAN Sajid¹(Center for Underground Nuclear and Particle Astrophysics, Institute for Basic Science. ¹Department of Physics, Kyungpook Natinal University)

P3-C026

Spent Nuclear Fuel 내 Pu/U비 결정 / 박광준, 신희성, 박세환, 김호동, 김정석(한국원자력연구원)

SESSION P3

응집물질물리학과회 포스터 발표
바이오/무른/유기 물질, 초전도체

2013년 10월 31일 목요일 14:00 - 15:45

장소: 포스터발표장

진행: 홍석철(고려대), 최기영(서울대)

P3-D088

Terahertz Study of RDX and HMX / CHOI Kyujin, HONG Taeyoon, HA Taewoo, PARK Byung Cheol, SIM Kyung Ik, CHUNG Jin Hyuk¹, CHO Soo Gyeong¹, KIM Jaehoon(Department of Physics and Institute of Physics and Applied Physics, Yonsei University, Seoul 120-749, Korea. ¹Defense Advanced R&D Institute, Agency for Defense Development, P.O. Box 35, Yuseong, Daejeon 305-600, Korea)

P3-D089

Visualizing Conformational Changes and Diffusion Dynamics of DNA Replication Holoenzyme Beta-sliding clamp / CHO Wonki, JERGIC Slobodan¹, KIM Daehyung, DIXON Nicholas E.¹, LEE Jong-bong(POSTECH, Dept. of Physics. ¹Wollongong univ., School of Chemistry)

P3-D090

Distinct behaviors of distributive and processive exonucleases detected by single molecule FRET / JEE Sangmi, YOO Jungmin, LEE Gwangro(School of life Sciences, Gwangju Institute of Science and Technology)

P3-D091

Terahertz Spectroscopy of Traditional Korean Pigments / SIM Kyung Ik, CHOI Kyujin, HONG Taeyoon, HA Taewoo, PARK Byung Cheol, KIM Jonghyeon, KIM Jae Hoon(Department of Physics and Institute of Physics and Applied Physics, Yonsei University, Seoul 120-749, Korea)

P3-D092

Pressure dependence of acoustic behaviors and refractive index of amorphous Kel F-800 copolymer studied by Brillouin spectroscopy / JEONG Min-Seock, KO Jae-Hyeon, KO Young Ho¹, KIM Kwang Joo¹(Hallym University, Department of Physics. ¹Agency for Defense Development)

P3-D093

Measurement of the in vivo transcription rate of bacterial RNA polymerase / 김승현, 양소라, 이남기¹(포항공과대학교 물리학과. ¹포항공과대학교 물리학과, 포항공과대학교 시스템생명공학부)

P3-D094

Role of Iodide in β -(BEDT-TTF)₂I₃ crystal: Theoretical Study / JIN taewon, SHIM jihoon¹(Department of Chemistry, Pohang University of Science and Technology, Pohang, Korea. ¹Division of Advanced Nuclear Engineering, Pohang University of Science and Technology, Pohang, Korea)

P3-D096

Unfolding/Refolding of TPP Riboswitch Aptamer and Its Effect on Aptamer Structure / LEE Jongjin, UHM Heesoo, HOHNG Sungchul¹(Department of Physics and Astronomy, National Center of Creative Research Initiatives, Seoul National University. ¹Department of Physics and Astronomy, Department of Biophysics and Chemical Biology, National Center of Creative Research Initiatives, Seoul National University)

P3-D097

"Single-cell" single-molecule co-IP analysis / RYU Ji Young, KIM Ji Hye, BAE JiEOP, LEE Wonhee, YOON Taeyoung(KAIST)

P3-D098

Real-time Observation of Passive/Active Nucleosome Sliding / KIRK Jaewon, LEE Yejin¹, SONG Ji-Joon¹, HONG Sungchul²(Department of Physics and Astronomy, Seoul National University, Seoul, 151-747, Republic of Korea. ¹Department of Biological Sciences, Graduate School of Nanoscience and Technology, KAIST, Daejeon, 305-701, Republic of Korea. ²Department of Physics and Astronomy, Department of Biophysics and Chemical Biology, National Center of Creative Research Initiatives, Seoul National University, Seoul, 151-747, Republic of Korea)

P3-D099

Super-resolution Imaging Of Longevity-regulating DAF-16 Isoform In *Caenorhabditis Elegans* / PARK Sangjun, LEE Jinwoo, SEO Beomseok¹, LEE Junho¹, HOHNG Sungchul(Seoul National University, Department of Physics and Astronomy. ¹Seoul National University, School of Biological Science)

P3-D100

Observation on the Shaping of Transcription Initiation Complex and TATA Binding Protein-caused DNA Bending by Using Single-Molecule Fluorescence Resonance Energy Transfer / 정용제, 전종철, 김재훈¹, 홍성철(서울대학교, 물리천문학부. ¹KAIST, 생명과학과)

P3-D101

Various physical parameters regulate RNA annealing activity of Hfq protein / HWANG WONSEOK, ARLUISON VERONIQUE¹, HOHNG SUNGCHUL(Seoul National University, Department of Physics and Astronomy. ¹Universite Paris Diderot, Sorbone Paris Cite, France)

P3-D102*

Single-Molecule FRET Studies on Gyrase / SEO SANGMIN, NABARRO SETH¹, HWANG WONSEOK, HOHNG SUNGCHUL(Department of Physics and Astronomy, SNU. ¹Department of Physics, Imperial College London)

P3-D103*

The Influence of Graphene Electrode at the Interface of Organic Material on the Charge Carrier Transport in the Organic Thin Film Transistor / KOO Hyung Jun, SEO Sunae, KIM Tae Kwang, DU Hye Won, SHIN So Myeong(Department of Physics, Sejong University)

P3-D104*

Surface effect on immobilized dyes in single-molecule fluorescence experiment / LEE Jaemin, KIM Sung Hyun, KIM Doseok(Department of physics, Sogang University)

P3-D105*

Co-transcriptional Effect On Intrinsic Dynamics Of TPP Riboswitch And Its Transitions Induced By TPP Binding / UHM Heesoo, HOHNG Sungchul(Department of Physics and Astronomy, Seoul National University)

P3-D106*

Inositol Pyrophosphates Inhibit Synaptotagmin-Dependent Exocytosis / 이태선, 이주용¹, 양유수², 이슬기¹, 김영란¹, 공병재¹, 조용석³, 권대혁⁴, 신연균², 윤태영, 김세윤(카이스트, 물리학과. ¹카이스트, 생명과학과. ²KIST. ³포항공대, 아태이론물리센터. ⁴성균관대, 생명과학과)

P3-D107*

Repetitive Unwinding and Fork Regression of WRN Helicase / LEE Jinwoo, YOO Sangwoon, KULIKOWICZ Tomasz¹, BOHR Vilhelm¹, AHN Byungchan², HOHNG Sungchul(Seoul National University. ¹National Institutes of Health. ²Ulsan University)

P3-D108*

Protein/water interface at different pHs probed by surface nonlinear optical spectroscopy / SUNG Woongmo, VAKNIN David¹, WANG Wenjie¹, NILSEN-HAMILTON Marit², KIM Doseok(Department of Physics, Sogang University, Seoul 121-742, Korea. ¹Ames Laboratory and Department of Physics, Iowa State University, Ames, Iowa 50011, USA. ²Department of biochemistry and biophysics & molecular biology, Iowa State University, Ames, Iowa 50011, USA)

P3-D109*

Single-molecule study on RNA guide domain function with Human Argonaute2 / JO Myung Hyun, SHIN Soochul¹, JUNG Seung-Ryoung², KIM Eunji³, SONG Ji-Joon³, HOHNG Sungchul⁴(Seoul National University, Department of Physics and Astronomy, Center of Creative Research Initiatives. ¹Seoul National University, Department of Biophysics and Chemical Biology, Center of Creative Research Initiatives. ²University of Washington, Department of Physiology and Biophysics. ³KAIST, Department of Biological Sciences, Graduate School of Nanoscience and Technology. ⁴Seoul National University, Department of Physics and Astronomy, Department of Biophysics and Chemical Biology, Center of Creative Research Initiatives)

P3-D110

Search for a New Type Superconductor in Nb-based 1212 Cuprates / LEE Ho Keun, LEE Man Seok, KIM Ga Won(Kangwon National University)

P3-D111

Quench Simulation of the KSTAR PF Magnet / LEE H. J., PARK Y. M., PARK D. S., YANG H. L.(NFR)

P3-D113

Flux creep analysis of superconducting $\text{Ca}_{10}(\text{Pt}_{4-d}\text{As}_8)(\text{Fe}_{2-x}\text{Pt}_x\text{As}_2)_5$ single crystal / AHMAD Dawood, MIN Byeong Hun¹, LEE S², KIM Y.C², KWON Yong Seung(Department of Emerging Materials Science, Daegu Gyeongbuk Institute of Science and Technology (DGIST)711-873 Daegu. ¹Center for X-ray Optics, Lawrence Berkeley National Laboratory (LBNL), Berkeley California 94720, USA. ²Department of Physics, Pusan National University, 609-735 Busan)

P3-D114

Growth and superconducting properties of BaIrO_3 added $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$ thin films on MgO (100) / SONG Jong Hyun, DE VERO Jeffrey, HWANG in woong, SANTIAGO Alvin Karl¹, CHANG Jungwon², KIM Jinhee², SARMAGO Roland³(Department of Physics, Chungnam National University. ¹National Institute of Physics, University of the Philippines. ²Korea Research Institute of Standards and Science. ³National Institute of Physics, University of the Philippines)

P3-D115

Effects of Tb doping on the structure and magnetic ordering in $\text{RuSr}_2(\text{Eu}_{1.2}\text{Ce}_{0.8})\text{Cu}_2\text{O}_{10-z}$ / H.K. Lee, Y.I. Kim¹(Kangwon National University. ¹Korea Research Institute of Standards and Science)

P3-D116

Superconducting Properties of MgB_2 Samples Synthesized by Different Size of Mg and B Precursor Powders / SINHA B. B., 장세훈, 정국채(재료연구소)

P3-D117

Structure analysis and transport properties of superconducting $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)((\text{Fe}_{1-x-y}\text{Pt}_x\text{Au}_y)_2\text{As}_2)_5$ single crystal / CHOI Woojae, MIN Byeong Hun¹, SEO Yuil, KWON Yong Seung(Department of Emerging Materials Science, DGIST. ¹Center for X-ray Optics, Lawrence Berkeley National Laboratory)

P3-D118

Electronic structure of Mn doped LiFeAs / 서정진, 정원식, 고윤영, 경원식, 한가람, 김범영, 조수현, 김범서(연세대학교, 물리학과)

P3-D119

Effect of negative pressure on superconductivity of $\text{Rb}_0.8\text{Fe}_2\text{-ySe}_2\text{-xTex}$ single crystals / GU Dachun, SUN Liling, ZHAO Zhongxian (Institute of Physics, Chinese Academy of Science)

P3-D120

Electron-boson spectral function of $\text{Pr}_{0.85}\text{LaCe}_{0.15}\text{CuO}_4$ / 이석배, 정일호, 노슬기, 민휘홍, 송동준¹, 김창영¹, 황정식(성균관대학교 물리학과. ¹연세대학교 물리학과)

P3-D121

Study on the effects of the electron-beam irradiation on the superconductor grain boundary junctions / LEE Sung Hoon, KIM Hye-Won¹, KIM Byungnam¹, LEE Byung Cheol¹, LEE Soon-Gul(Korea University Sejong Campus, Department of Applied Physics. ¹KAERI, Radiation Integrated System Research Division)

P3-D122*

Superconducting fluctuation effect of $\text{Ca}_8\text{Na}_2(\text{Pt}_3\text{As}_8)(\text{Fe}_{2-x}\text{Pt}_x\text{As}_2)_5$ ($x=0.03$) single crystal from reversible-magnetization measurements / CHO Hyunyoung, MIN Byeong Hun¹, KO Minjee, KWON Yong Seung(Department of Emerging Materials Science, Daegu Gyeongbuk Institute of Science and Technology(DGIST), Daegu 711-873, Republic of Korea. ¹DGIST-LBNL Joint Research Center, Daegu Gyeongbuk Institute of Science and Technology, Daegu 711-873, Republic of Korea)

P3-D123*

Optical properties of LiFeAs and $a\text{Fe}_{0.97}\text{Co}_{0.03}\text{As}$ single crystals /

KO Minjee, MIN Byeonghun¹, SHIN Soyeon, KWON Yongseung(Department of Emerging Materials Science, DGIST. ¹Center for X-ray Optics, Lawrence Berkeley National Laboratory)

P3-D124*

Transport and magnetic properties of superconducting $\text{Ca}_{10}(\text{Pt}_4\text{As}_{8.8})(\text{Fe}_{2-x}\text{Pt}_x\text{As}_{2.35})_5$ ($x=0.02$) and $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)(\text{Fe}_2\text{As}_{2.35})_5$ single crystals / SEO Yuil, MIN Byeong Hun¹, CHOI woojae², KWON Yong Seung²(Department of Emerging Materials Science, DGIST. ¹Center for X-ray Optics, Lawrence Berkeley National Laboratory. ²Department of Emerging Materials Science, DGIST)

P3-D125*

Critical Current Density of $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)((\text{Fe}_{1-x-y}\text{Pt}_x\text{Au}_y)_2\text{As}_2)_5$ and $\text{Ca}_8\text{Na}_2(\text{Pt}_3\text{As}_3)(\text{Fe}_{10}\text{As}_{10})$ Single Crystals / SHIN soyeon, MIN ByeongHun¹, CHO Hyunyoung, KWON yongseung(Daegu Gyeongbuk Institute of Science and Technology(DGIST), Dept. Emerging Materials Science. ¹Daegu Gyeongbuk Institute of Science and Technology, DGIST-LBNL Joint Research Center)

P3-D126*

Synthesis and Characterization of Amorphous Transition Metal-silicide Thin Films made by Co-sputtering Deposition / CHOI Jiman, HA Dong-Gwang, KIM Seon Hoo, PARK Jung Hwan, IM Hyunsik¹, KIM Hyungsang¹, SONG Woon, CHONG Yonuk(Korea Research Institute of Standards and Science. ¹Dongguk University)

SESSION P3

응용물리학회
포스터 발표

2013년 10월 31일 목요일 14:00 - 15:45

장소: 포스터 발표장

P3-E061*

The perpendicular magnetic anisotropy of CoFeB using amorphous buffer layer / RHIE Kungwon, KIM Dong Seok, JUNG Ku yeol, JANG Young jae, KIM Ji min, LEE Byung Chan¹, JOO Sung Jung², HONG JinKi(Korea University. ¹Inha University. ²KRISS)

P3-E062*

Reinforced ferromagnetic properties in Dy and Ni co-doped BiFeO₃ ceramics / 황지섭, 유영준, 박정수¹, 강지훈², 이광훈³, 이보화³, 김기원⁴, 이영백(한양대학교, 물리학과. ¹성균관대학교, 물리학과. ²국민대학교, 나노전자물리학과. ³한국외국어대학교, 전자물리학과. ⁴선문대학교, 디스플레이공학과)

P3-E063

Concurrent enhancement of magnetic and ferroelectric properties of Bi_{0.9}Dy_{0.1}Fe_{0.97}Co_{0.03}O₃ compound / 유영준, 황지섭, 박정수¹, 이주열¹, 강지훈², 이광훈³, 이보화³, 김기원⁴, 이영백(한양대학교, 물리학과. ¹성균관대학교, 물리학과. ²국민대학교, 나노 및 전자물리학과. ³한국외국어대학교, 전자물리학과. ⁴선문대학교, 디스플레이 공학과)

P3-E064*

Study Of Fe Nano Dot Inserted MTJ In Low Temperature / JANG Young-jae, KIM Dongseok, WU Te-ho¹, LIN Chia-hao¹, LEE Byungchan², RHIE Kungwon(Korea University, Department of Display and Semiconductor Physics. ¹National Yunlin University of Science and Technology, Taiwan SPIN Research Center. ²Inha University, Department of Physics)

P3-E065*

Analysis of Fe₃O₄ thin films thermal conductivity through callaway theoretical model / LEE Won-Yong, PARK No-Won, KIM Jin-A¹, YOON Soon-Gil¹, LEE Sang-Kwon(Departtment of Physics, Chung-Ang University, Seoul, 156-756, Korea. ¹Department of Materials Engineering, Chungnam National University, Daeduk Science Town, Daejeon 305-764, Republic of Korea)

P3-E066*

Investigate a Mobility of Exfoliated Graphene on Strong Magnetic Field by Temperature / JEON Hyojin, JUN Dongsuk¹, CHOI Wonchul², KIM Soojung, JANG Moongyu(UST-Department of Advanced Device Technology, ETRI-Novel Materials & Devices Research Center. ¹ETRI, Novel

Materials & Devices Research Center. ²ETRI-Novel Materials & Devices Research Center, KAIST-Department of Electrical Engineering)

P3-E067

First-principles study of native-defect induced magnetism in ZnO / 이은철(가천대학교, 나노물리학과)

P3-E068

A First-principles Study of Iron-Pnictide Compounds Using LSDA with Negative U / 장재경, 이주열(성균관대학교, 물리학과)

P3-E069

Quantum dynamics of a tunneling spin coupled to a torsional resonator in the presence of sound wave / KIM GWANG-HEE(SEJONG UNIV, Dept. of Physics)

P3-E070*

Study On Temperature Dependent Transport In Graphene Transistor / YOO Jung-Woo, MODEPALLI Vijayakumar, JIN Mi-Jin, PARK Jungmin, JO Junhyeon(울산과학기술대학교)

P3-E071*

Coupling Of Charge And Spin Current In Graphene / YOO Jung-Woo, PARK Jungmin, JIN Mi-Jin, MODEPALLI Vijayakumar, JO Jun-Hyeon(Ulsan National Institute of Science and Technology (UNIST), School of Mechanical and Advanced Materials Engineering)

P3-E072

거대자기저항-스핀밸브 박막의 자기이방성 영역분포에 관한 연구 / PUREVDERJ Khajidmaa, 이상석(상지대학교, 한방의료공학과)

P3-E073*

Thermally Induced Charge & Spin Tunneling Into Graphene / YOO Jung-Woo, JIN Mi-Jin, JO Junhyeon, MODEPALLI Vijayakumar, PARK Jungmin(울산과학기술대학교, 기계신소재공학과)

P3-E074*

반도체 제조공정에서의 정전기 제거를 위한 연한 X-선 음극관 전자빔 시뮬레이션 연구 / 박태영, 이남규, 김용진, 박래준¹, 이상석(상지대학교, 한방의료공학과. ¹(주)엑스엘)

P3-E075*

Thermopower and electrical resistivity measurement setup in 77~600 K / CHO Sunglae, QUANG Nguyen Van, DUONG Anh Tuan, SHIN

P3-E076*

광범위 온도가변형 홀효과 측정장치 제작과 AlGaIn/GaN HEMT 소자의 측정 / 이인학, 김용현, 장승엽, 신종훈, 장태훈, 장영준(서울시립대학교 물리학과, 'LG전자 연구소)

P3-E077*

Comparison of electrical characteristics for different cap layer on AlGaIn/GaN Schottky Barrier Diodes / KIM Minjun, KIM Yoonhyung, PARK Jinsub(Hanyang University, Dept. Electronics and Computer Engineering)

P3-E078

Signal amplification of field-effect transistor sensor for detection of small molecules / 아철성, 류호준(한국전자통신연구원 차세대디스플레이연구단)

P3-E079

Black color electrochromic optical shutter / 아철성, 김태엽, 조성목, 류호준, 추혜용(한국전자통신연구원 차세대디스플레이연구단)

P3-E080*

액체 속에 형성된 기포의 성장 및 접촉면으로부터의 분리 과정 / 김나경, 이용배, 김혁기, 이주현, 이기원(공주대학교, 물리학과)

P3-E081*

Optical and Electrical properties of the M₂ dominant VO₂ thin film grown in GaN near the Metal-Insulator transition / YANG Hyoungwoo, KANG Dae Joon(Department of Physics, Institute of Basic Science, Sungkyunkwan University, Korea)

P3-E082*

Development of Novel Synthetic Routes for Ultra-long and Vertical ZnO Microwires with Cross-sectional Modulation by Thermal CVD Method / OH Sim Geon, KANG Dae Joon(Department of Physics and Department of Energy Science, Sungkyunkwan University, Korea)

SESSION P3

광학및양자전자학분과회
포스터 발표

2013년 10월 31일 목요일 14:00 - 15:45

장 소 : 포스터발표장

P3-I025*

Broadband Modulation of Terahertz Waves with Non-resonant Graphene Meta-devices / 민범기, 조용래, 강병수, 최현주, 이승훈, 김현돈(한국과학기술원, 기계공학과)

P3-I026*

엘립소미터와 분광광도계를 이용한 다층 박막의 굴절을 측정 법 / 김원영, 임재동, 김태영, 황보창권(인하대학교, 물리학과)

P3-I027*

증착온도에 따른 Epsilon near zero (ENZ) ITO 박막 특성 연구 / 김진주, BADSHA ALAMGIR, 김태영, 황보창권(인하대, 물리학과)

P3-I028*

사각형 조도분포를 가지는 원통형 LED 2차렌즈 설계 및 분석 / 강은경, 김현지, 김훈, 이상일, 황보창권(인하대학교, 물리학과)

P3-I029*

비대칭 광학계에 대한 자유형상 반사경 설계 연구 / 김현지, 강은경, 김훈, 이상일, 황보창권(인하대학교, 물리학과)

P3-I031

의 혼합비율에 따른 n-GaN 기반의 hybrid photovoltaic에 관한 연구 / 권동오(한국해양대학교 응용과학과)

P3-I032

Cross-correlation of a pair of Femtosecond Pulses by Two-photon Fluorescence in CdSe/ZnS Quantum Dots / KIM Inhong, PARK Sungho, KYHM Kwangseuk(Department of Physics, Pusan Nat' l University, 'Interdisciplinary Graduate School of Cogno-Mechatronics, Pusan Nat' l University, 'Department of Physics Education and Interdisciplinary Graduate School of Cogno-Mechatronics, Pusan Nat' l University)

P3-I033

Photochromic Reaction in Diarylethene-doped Polymeric Thin Film / WU Yang, KIM Sun Il, KIM Eunkyong(Pukyong National University, Department of Physics, 'Yonsei University, Chemical & Biomolecular Engineering)

P3-I034*

Interferometric Measurement of Field Enhancements in One Nanometer Gaps / 김대식, 강태희, 박영미, 박웅규(서울대학교 물리천문학부)

P3-I035*

Superresolution Imaging using Induced Optical Fluctuation / KIM Min-Kwan, PARK Chung-Hyun, PARK YongKeun, CHO Yong-Hoon (Department of Physics and Graduate School of Nanoscience & Technology (WCU), Korea Advanced Institute of Science and Technology (KAIST))

P3-I036

Optical properties of laser lines and fluorescent spectrum in cholesteric liquid crystal laser / JEONG Mi-Yun, CHUNG Ki Soo, WU Jeong Weon'(경상대학교, 물리학과. '이화여자대학교, 물리학과)

P3-I037*

Stimulated Carrier Depletion by Surface Plasmon Lasing in Metal/Semiconductor Nanostructure / JEONG TaeYoung, KIM Seunghyun, YEE kiju(Department of physics, Chungnam National University)

P3-I038

시간 분해 이색 여기-탐침 실험을 통한 InGaAsP 여기 전자 분포의 동역학 규명 / 서승원, 김승현, 이기주(충남대학교, 물리학과)

P3-I039*

Sub-wavelength terahertz spectroscopy of organic materials in micrometer-size metal slits / 조한래, 이강희', 한대훈, 안재욱 (Department of Physics, Korea Advanced Institute of Science and Technology. 'Department of Mechanical Engineering, Korea Advanced Institute of Science and Technology.)

P3-I040

Optical measurement of insulator-metal transition in Au/VO2 nano-structure / 이근행, 김봉준, 김현탁, 이기주(충남대학교 물리학과. '전자통신연구원(ETRI))

P3-I041*

Multiple 3-dimensional subwavelength confinement in high refractive index metamaterials / LEE In-sung, YANG Jin-Kyu', KEE Chul-sik², LEE Joong wook(Department of physics, Chonnam National University, Gwangju 500-757, Korea. 'Department of Optical Engineering, Kongju National University, Kongju, 314-701, Korea. ²Center of Subwavelength Optics, Korea)

P3-I042*

Effects of excitation wavelength on terahertz modulation in organic-inorganic hybrid structures / PARK JungMin, YOO HyungKeun', KANG Chul', LEE joong wook(department of physics, chonnam national university, Gwangju 500-757, Korea. 'Advanced Photonics Research Institute, GIST, Gwangju 500-712, Korea)

P3-I043

Stability of Plug and Play QKD System using a Double Phase Modulation Method / 권오성, 우민기, 이민수, 박병권, 김일영, 김용수, 문성욱, 한상욱(한국과학기술연구원)

P3-I045

Observation of dynamic quenching of Rhodamine 110 via TCSPC / JUNG Seokhyun, KIM Soo Yong, KIM Sok Won'(KAIST, Department of physics. 'University of Ulsan, Department of physics)

P3-I046

FCS를 이용한 환경변화에 따른 Quadruplex의 정량적 성질 변화 측정 / 이동근, 김수용, 김석원(KAIST, 물리학과. '울산대, 물리학과)

P3-I047

광섬유 광학계로 구현된 전역광단층촬영기 시스템 / 이승석, 최은서(조선대학교, 물리학과)

P3-I048

미세 단층촬영기법을 이용한 박막의 두께 측정 / 마혜준, 이승석, 김주하, 신용진, 최은서(조선대학교, 물리학과)

P3-I049*

Sub-Rayleigh Imaging via chaotic light / 오주언, 조영욱, 김윤호, SCARCELLI Giuliano'(Department of Physics, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, Korea. 'Harvard Medical School and Wellman center for photomedicine)

P3-I050

Tm, Nd, Yb 이온이 이중 혹은 삼중 도핑된 유리-세라믹 제조와 상호에너지 전달에 의한 근적외선-청색 상방전환 / 송수아, 정홍명, 김동선, 이진호, 임기수(충북대학교 물리학과)

SESSION P3

원자및분자물리학과
포스터 발표

2013년 10월 31일 목요일 14:00 - 15:45

장소: 포스터 발표장

P3-J001

Analytical solutions of the susceptibility for inhomogeneously broadened three-level atomic systems using a Lorentzian distribution / NOH Heung-Ryoul, MOON Han Seb¹(전남대, 물리학과, ¹부산대, 물리학과)

P3-J002

Study on absorption and transmission signal profiles with respect to various physical parameters from a degenerate two-level system of rubidium atom / REHMAN HAFEEZ UR, MUHAMMAD Adnan, JIN-TAE Kim, NOH Heung-Ryoul¹(Chosun Univ, Dept. of Photonic Eng. ¹Chonnam Univ, Dept. of Physics)

P3-J003

An introduction of Arnoldi-Lanczos program to solve the time-dependent Schrodinger equation / 김대성, 변창우¹, 이만호¹, 최낙렬¹(경과학기술대학교 IT학부, ¹금오공과대학교 교양교직과정부)

P3-J004

Theoretical Study on the Electron-Impact Single Ionization of W¹⁷⁺ / ZHANG Denghong, KWON Duck-Hee¹(KAERI, Nuclear Data Center; NWNNU (China), ¹KAERI, Nuclear Data Center)

P3-J005

Laser-assisted ultrafast photo-association in HeH²⁺ / CHANG Bo Young, SHIN Seokmin, SOLA Ignacio R.¹(Seoul National University, Dep. Chemistry, Center for the Time-Space Molecular Dynamics, ¹Universidad Complutense de Madrid, Dep. Quimica Fisica)

P3-J006

Design of a low-energy positron source: Progress report / 조혁, 주영우, 윤정식¹(충남대, ¹국가핵융합연구소)

P3-J007

Proposal of Ytterbium Optical Lattice Colck with Cryogenic Chamber / PARK Chang Yong, PARK Chang-Yong, YU Dai-Hyuk, LEE Won-Kyu, LEE SANG-KYUNG(KRISS)

P3-J008

초음속 분자빔을 이용하여 관측된 KRb의 고에너지 준위 전자상태 / LEE Yonghoon, KIM Bongsoo¹, KIM Jin-Tae²(Mokpo National Univ., Dept. of Chemistry, ¹KAIST, Dept. of Chemistry, ²Chosun Univ, Dept. of Photonic Eng.)

P3-J009

Optical Trapping of Microscopic Particles in the Air and Interferometric Method for the Analysis of Trapped Particle Dynamics / CHOI Jai-Min, SO Jin Myeung(Chonbuk National University, Division of Science Education)

P3-J010*

Ultrafast Ramsey Interference Observed in REMPI Process / 김효섭, 이한결, 임종석, 안재욱(KAIST 물리학과)

P3-J011*

Quantum discord of X-states / 남궁민, 장진호, 신재희, 권영현(한양대학교 응용물리학과)

P3-J012*

Bell inequality tests using optical hybrid states to close the detection loophole / KWON Hyukjoon, JEONG Hyunseok(Center for Macroscopic Quantum Control, Department of Physics and Astronomy, Seoul National University)

P3-J013

Simulation of discrimination for three qubit states / 김지환, 하동훈, 권영현(한양대학교 응용물리학과)

P3-J014*

Optical Quantum Information Transfer with Photon Losses / KIM Hoyong, PARK Jinwoo, JEONG Hyunseok(Center for Macroscopic Quantum Control, Department of Physics and Astronomy, Seoul National University)

P3-J015

Discrimination of quantum states used by QKD, in noisy environment / 신재희, 하동훈, 남궁민, 권영현(한양대학교 응용물리학과)

P3-J016

Nonclassical measurements of light / 김기식, 장석현, 신종화(인하대, 물리학과)

P3-J017

Quantum Interference Control of a Four-level Diamond System /
LEE Han-gyeol, KIM Hyosub, LIM Jongseok, AHN Jaewook(KAIST, Dept. of Physics)

P3-J018*

Phase Measurement Of Fast Light Pulse In Electromagnetically Induced Absorption / LEE Yoon-Seok, LEE Hee Jung, MOON Han Seb(Pusan National University, Department of Physics)

P3-J019*

Scaling behavior of the density ripples in a freely expanding 2D degenerate Bose gas / 서상원, 최재윤, 권우진, 강세지, 신용일(Seoul National University, Department of Physics and Astronomy)

P3-J020

Trapping of ^{85}Rb atom using non-cycling transitions / MUHAMMAD Adnan, REHMAN Hafeez Ur, KIM Jin-Tae, NOH Heung-Ryoul'(Chosun Univ., Dept. of Photonic Eng. 'Chonnam Univ., Dept. of Physics)

P3-J021*

Relaxation of broken symmetry state in a perturbed driven cold atom system / KIM Ji-Hyoun, AHN Daegun, PARK Jina, JHE Wonho(Seoul National University)

P3-J022

Numerical Study of Symmetry Breaking in Interacting Few-particle System / SHIN Soyoung, JULIE Park, JINA Park, YONGHEE Kim'(Seoul National University, Department of Physics and Astronomy. 'Korea Atomic Energy Research Institute, Quantum Optics Division)

P3-J023*

Scaling laws for dynamical hysteresis in a driven double-well system / AHN Daegun, PARK Jina, KIM Ji-Hyoun, JHE Wonho(서울대학교, 물리천문학부)

P3-J024*

The Polarization Rotation of an Optical Field via Electromagnetically Induced Transparency in a Cold ^{87}Rb Medium / KIM Jungbog, MOON Yelin, KIM Seungjin, KIM Minsuk(Korea National University of Education)

P3-J025

Investigation of Atom-chip Bose-Einstein Condensate Lifetime / KIM Jungbog, KIM Seungjin(한국교원대학교)

P3-J026*

On the Road to Quantum Degenerate Gases of Ytterbium Atoms / 김민석, 이무송, 한정호, 신용일(서울대학교 물리천문학부)

SESSION P3

천체물리학분과회
포스터 발표

2013년 10월 31일 목요일 14:00 - 15:45

장소: 포스터 발표장

P3-L001*

Development of the T/BCD readout electronics for the ISS-CREAM experiment / KIM HongJoo, HWANG YoungSeok, KAH DongHa, KANG KookHyun, HYUN HyoJung, PARK Hwanbae, PARK JeongMin, JEON Hyebin, ANGELASZEK David¹, GUPTA Mayank¹, LEE Moo Hyun¹, LUTZ Larry¹, SEO Eun-Suk¹, PATTERSON Pete¹(Kyungpook National University. ¹University of Maryland)

P3-L002*

Simulation and Test results of the Top Counting Detector and Bottom Counting Detector for the ISS-CREAM / PARK J.M., KIM H.J., PARK H., KAH D.H., HYUN H.J., HWNAG Y.S., BAE J.B., KANG K.H., JEON H.B., ANGELASZEK D.¹, GUPTA M.¹, HUH H.G.¹, LEE M.H.¹, LUTZ L.¹, SEO E.S.¹, YOON Y.S.¹, HAN J.H.¹, KWASHNAK K.¹, COPLEY M.¹, MALININ A.¹, KIM K.C.¹, WU J.Y.¹, OFOHA O.¹, PATTERSON P.¹, ANDERSON T.², COUTU S.², JEON J.A.³, JEONG I.S.³, LEE H.Y.³, NA G.W.³, PARK A.³, PARK I.H.³, LINK J.T.⁴, MITCHELL J.W.⁵, NUTTER S.⁶(Kyungpook National University. ¹University of Maryland. ²Penn State University. ³Sungkyunkwan University. ⁴NASA GSFC/CRESST(USRA). ⁵NASA GSFC. ⁶Northern Kentucky University)

P3-L003

Top/Bottom Counting Detectors for the CREAM Experiment on the ISS / HYUN H. J., ANDERSON T.¹, ANGELASZEK D.², BAE J. B., BAEK S. J.³, COPLEY M.², COUTU S.¹, GUPTA M.², HAN J. H.², HUH H. G.², HWANG Y. S., JEON H. B., JEONG I. S.³, KAH D. H., KANG K. H., KIM H. J., KIM K. C.², KWASHNAK K.², LEE J.³, LINK J. T.⁴, LUTZ L.², MALININ A.², MITCHELL J. W.⁵, NUTTER S.⁶, OFOHA O.², PARK H., PARK I. H.³, PARK J. M., PATTERSON P.², SEO E. S.², WU J.², YOON Y. S.², LEE M. H.²(Kyungpook National University. ¹Pennsylvania State University. ²University of Maryland. ³Sungkyunkwan University. ⁴NASA GSFC, CRESST(USRA). ⁵NASA GSFC. ⁶Northern Kentucky University)

P3-L004

Simulation of the Coriolis Force in a Non-Inertial Frame of Reference / 이유, 이성숙, 정종일, 임승환, 윤희중(충남대 천문우주학과. ¹KISTI)

SESSION P4

응집물질물리학분과회 포스터 발표
강상관계, 자성체

2013년 11월 1일 금요일 11:00 - 12:45

장소: 포스터발표장

진행: 이종수(경희대), 이순철(KAIST)

P4-D127

Coexistence of a localized singlet and a long range ordered state in the frustrated spin tetrahedral compound $\text{Cu}_4\text{Te}_3\text{O}_{12}\text{Cl}_4$ / CHOI K.-Y., LEE W.J., LEE S.-H., TOL J. van¹, LEMMENS P.², BERGER H.³(Chung-Ang Univ., Dept. of Physics. ¹NHMF, FSU. ²TU Braunschweig, IPKM. ³EPFL, Lausanne)

P4-D128

Exchange interaction effect on the optical d-d excitations in antiferromagnetic $\text{Sr}_3\text{Ir}_2\text{O}_7$ / PARK H. J., SOHN C. H., JEONG D. W., QI T. F.¹, CAO G.¹, KIM K. W.², MOON S. J.³, CHO Deok-Yong, NOH T. W.(Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 151-747, Korea, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea. ¹Department of Physics and Astronomy University of Kentucky Lexington, KY 40506-0055 USA. ²Department of Physics, Chungbuk National University, Cheongju 361-763, Korea. ³Department of Physics, Hanyang University, Seoul 133-791, Korea)

P4-D129

Temperature dependence of Spin structure and Magnetostriction in Dysprosium Iron Garnet / SONG Kimyung, HUR Namjung, LEE Seongsu¹(inha univ. ¹KAERI)

P4-D130

Thermal quenching effects on the piezoelectric and ferroelectric properties in $0.67\text{Bi}_{1.05}\text{FeO}_3\text{-}0.33\text{BaTiO}_3$ ceramics / 이명환, 김다정, 박진수, 김명호, 송태권, 김상욱, 김원정, 김상수¹, 도달현²(국립 창원대학교 나노/신소재 공학과. ¹국립 창원대학교 물리학과. ²계명대학교 신소재공학과)

P4-D131

Investigation of optical property in Cu ion doped SrZrO_3 nanocrystals / LEE Dong-Jae, CHO MinHyun, LEE Yunsang(Soongsil University)

P4-D132

Development of CT-QMC impurity solver for Dynamical Mean Field Theory / HAN Mancheon, LEE Choong-Ki¹, CHOI Hyounghoon(Department of Physics and IPAP, Yonsei University, Center for

Computational Studies of Advanced Electronic Material Properties, Yonsei University. ¹Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University)

P4-D133

Effects of Sc-substitution on Magnetic Order in LuFe_2O_4 / JEONG Jinwon, NOH Han-Jin, KIM Sung Back¹, KIM Jae-Young²(Department of physics, Chonnam Nat'l University. ¹ACE Center, Konyang University. ²Pohang Accelerator Laboratory, POSTECH)

P4-D134*

Magnetically tunable electrical relaxation phenomena in Nb-doped TiO_2 thin films / JEONG Yoon-Hee, KIM Sang-Woo(Department of Physics, POSTECH)

P4-D135*

Effects of Bi nonstoichiometry on the ferroelectric and piezoelectric properties of $0.67\text{BiFeO}_3\text{-}0.33\text{BaTiO}_3$ ceramics / PARK J.S, LEE M.H, KIM D.J, KIM W.-J¹, KIM S.W¹, DO D², SONG T.K(School of Materials Science and Eng., Changwon Nat' l Univ., Gyeongnam 641-773, Korea. ¹Department of Physics, Changwon Nat' l Univ., Gyeongnam 641-773, Korea. ²Department of Advanced Mat. Eng., Keimyung Univ., Daegu 704-701, Korea)

P4-D136*

Annealing effects on the superconducting properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ / SHIN Dongwon, SEO Soonbeom, CHOI Ki-young¹, KIM Kee-hoon¹, PARK Tuson(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea. ¹Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea)

P4-D137*

Effect on the quenching in physical properties of polycrystalline $\text{Bi}_{1.05}(\text{Fe}_{0.95}\text{Mn}_{0.05})\text{O}_3$ thin film / KIM SANGWOOK, KIM WON-JEONG, LEE MYANGHWAN¹, KIM DAJENOG¹, PARK JINSU¹, KIM MYONG-HO¹, SONG TAE KWON¹, DO DALHYUN²(Department of Physics, Changwon National University. ¹School of Nano & Advanced Material Engineering, Changwon National University. ²Department of Advanced Materials Engineering, Keimyung University)

P4-D138*

Revisiting the Origin of Metallicity in Strained LaTiO_3 / SINN Soobin, YOO Hyang Keun, KIM Yong Su, CHANG Young Jun¹, KIM Hyeong-Do, NOH Tae Won(Center For Correlated Electron Systems, Institute For Basic Science (IBS), Seoul 151-747, Korea. ¹Department of Physics, University of Seoul, Seoul 130-743, Korea)

P4-D139*

Polaronic behaviors in Sr_2IrO_4 observed by optical spectroscopy / SOHN Chang Hee, QI Tong-Fei¹, NOH Kyung Joo, PARK Hyun-Ju, JEONG Da Woon, YOO HyangKeun, CAO Gang¹, KIM Kyung Wan², MOON Soon Jae³, NOH Tae Won(Center for Correlated Electron Systems, Institute for Basic Science, Seoul National University, Seoul 151-747, Korea Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea. ¹Center for Advanced Materials, Department of Physics and Astronomy, University of Kentucky, Lexington, Kentucky 40506, USA. ²Department of Physics, Chungbuk National University, Cheongju 361-763, Korea. ³Department of Physics, Hanyang University, Seoul 133-791, Korea)

P4-D140*

Electronic conduction in Ca-doped $\text{BiFeO}_{3-\delta}$ / YANG Chan-Ho, LIM, Ji Soo¹, A. IKEDA-OHNO², T. Ohkochi³, M. Kotsugi⁴, T. Nakamura³, J. Seidel⁵(Department of Physics, KAIST; Institute for the NanoCentury, KAIST. ¹Department of Physics, KAIST. ²School of Civil and Environmental Engineering, The University of New South Wales. ³Japan Synchrotron Radiation Research Institute, SPring-8. ⁴Japan Synchrotron Radiation Research Institute, SPring-8 ; CREST-JST. ⁵School of Materials Science and Engineering, The University of New South Wales)

P4-D141*

Anisotropic Electrical Resistivity of the Hg and Sn doped Heavy-fermion Compound CeRhIn_5 / PARK Tuson, THOMPSON J.D¹, BAUER E.D.¹, SEO Soonbeom(Department of Physics, Sungkyunkwan University. ¹Los Alamos National Laboratory)

P4-D142*

Spin dynamics of the A-site ordered breathing pyrochlore compounds $\text{LiGaCr}_4\text{O}_8$ and $\text{LiInCr}_4\text{O}_8$ / CHOI K.-Y., DO S.-H., LEE W. J., KUHNS P. L.¹, REYES A. P.¹, TOL J van¹, TOL J van¹(Chung-Ang Univ, Dept. of Physics. ¹NHMFL, FSU)

P4-D143*

Investigation of the ferroelectric and piezoelectric properties in pure and Mn-modified $\text{BiFeO}_3\text{-BaTiO}_3$ based system / KIM D. J., LEE M. H., PARK J. S., KIM M. H., SONG T. K., KIM S. W.¹, KIM S. S.¹, KIM W.-J.¹, DO D.²(School of Nano & Advanced Mat. Eng., Changwon Nat' l Univ., Gyeongnam 641-773, Korea. ¹Department of Physics, Changwon Nat' l Univ., Gyeongnam 641-773, Korea. ²Department of Advanced Mat. Eng., Keimyung Univ., Daegu 704-701, Korea)

P4-D144*

Implementation of Dynamical Mean-Field Theory in First-

principles LCAO Calculations / OH Hyungju, LEE Choong-ki¹, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University. Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University. ¹Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University)

P4-D145*

Photoemission study on non-magnetic semiconductor using circularly polarized light / KIM changyoung, CHO Soohyun, JUNG Wonsig, KIM Bomyoung, HAN Garam(연세대학교, 물리학과)

P4-D146*

Change on Electronic Structure through Charge Transfer Transition on NiS_{2-x}Se_x / 한가람, 경원식, 정원식, 고윤영, 김범영, 서정진, 조수현, 김범서, 이경동¹, 김창영(물리 및 응용물리학과, 연세대학교, ¹물리학과, 인하대학교)

P4-D147*

Electronic transport properties of topological insulators of Sb₂Bi_{2-x}Se₂Te (x=1.0, 1.2) / 이종수, 손원혁, 김가령(경희대학교 응용물리학과)

P4-D148*

Effects of Magnetic Anisotropy in the Classical Heisenberg Antiferromagnet on a Triangular Lattice / YUN Miso, JEON Gun Sang(Ewha Womans University)

P4-D149

The effect of Fe doping in ferromagnetic perovskite oxide on its physical properties / SITI Nyayu, LEE Bo Hwa, KWON O-Ung, SHIN Ran Hee¹, JO William², JUNG Chang Uk(Hankuk University of Foreign Studies, Department of Physics. ¹Hankuk University of Foreign Studies, Department of Physics, Ewha Womans University, Department of Physics. ²Ewha Womans University, Department of Physics)

P4-D150

Universal Metastability of the Low-Spin in the Co2+ systems and Exclusion of Mott-Physics in Pressure-Induced Spin-State Transition / KIM Bongjae, KIM Kyoo, MIN B. I.(Physics, POSTECH)

P4-D151

호이슬러 구조를 가지는 N₂KCa 화합물의 표면 반쪽금속성과 자성에 대한 제일원리 연구 / 이재일, BIALEK Beata(인하대 물리학과)

P4-D152

Co/Fe Nanoparticles Produced by PLD / JANG young rae(Korea Atomic Energy Research Institute, Neutron Science Division)

P4-D153

응력이 CoFe과 CoPt 박막의 수직자기 이방성에 미치는 영향에 대한 제일 원리계산 / 김은구, 권오룡, 홍순철(울산대학교)

P4-D154

Magnetic properties of FeCo alloy / HONG jisang, SON Jicheol, HASHMI Arqum(부경대학교 물리학과)

P4-D155

Electron-spin relaxations of phosphorus donors in silicon at high magnetic fields / MINCHAN Gwak, YUTAKA FUJII¹, SANGGAP Lee, SEITARO Mitsudo¹, MATSUBARA Akira², TAKAO MIZUSAKI³, CHANGSOO Kim, INSUK Yu⁴, SOONCHIL Lee⁵, SANGGAP Lee(Korea Basic Science Institute, Daejeon 305-333, Republic of Korea. ¹Research Center for Development of Far-Infrared Region, University of Fukui, Fukui 910-8507, Japan. ²Research Center for Low Temperature and Material Sciences, Kyoto University, Kyoto 606-8501, Japan. ³Research Center for Development of Far-Infrared Region, University of Fukui, Fukui 910-8507, Japan. ⁴Department of Physics and Astronomy, Seoul National University, Seoul 151-742, Republic of Korea. ⁵Department of Physics, KAIST, Daejeon 305-701, Republic of Korea)

P4-D156

First-principles study of electronic and magnetic properties of LiMn_xFe_(1-x)SO₄F / TSEVELMAA Tumurbaatar, ODKHUU Dorj, TAIVANSAlKHAN Purev, KWON Oryong, HONG Soon Cheol(University of Ulsan)

P4-D157

Magnetism of bulk and thin film MnAs and MnAs/GaAs: A first principles study / TAIVANSAlKHAN Purev, ODKHUU Dorj, KWON Oryong, TSEVELMAA Tumurbaatar, HONG Soon Cheol(University of Ulsan)

P4-D158

방사광을 이용한 CsCr_{1-x}Fe_xF₄ (x=0 ~ 0.06) 계 Spin Tube의 연 X선 분광 연구 / 김대현, 이은숙, 강정수, Y Miura¹, H Manaka¹, 백재윤², 신현준³(가톨릭대학교 물리학과. ¹Kagoshima, Japan. ²포항가속기 연구소)

P4-D159

중성자 회절을 이용한 준2차원 전도성 자성체 PdCrO₂의 자성 구조 연구 / 문현숙, 정진원, 노한진, 이성수¹(전남대학교 물리학과. ¹한국원자력연구원)

P4-D160

NMR Study Of The Spin Dimer System $\text{FeTe}_3\text{O}_7\text{X}$ ($\text{X} = \text{Cl, Br}$) / YOON Sungwon, DO Seunghwan¹, BERGER Helmuth², KUHNS Philip L.³, REYES Arnel P.³, CHOI KwangYong¹, SUH ByoungJin(Department of Physics, The Catholic University of Korea, Bucheon-si, South Korea. ¹Department of Physics, Chung-Ang University, Seoul, South Korea. ²Institute of Condensed Matter Physics, Ecole Polytechnique Federale de Lausanne (EPFL), CH-1015, Lausanne, Switzerland. ³National High Magnetic Field Laboratory, Tallahassee, Florida 32310, United States)

P4-D161

The effect of in-plane uniaxial anisotropy on spin reorientation transition / 권희영, 원창연(경희대학교 물리학과)

P4-D162

Perovskite $\text{SrRu}_x\text{Sn}_{1-x}\text{O}_3$ 의 구조 및 물성 변화 / 전찬영(서울대학교 물리천문학과, 물리학과)

P4-D163

Exchange biase in $\text{BiFeO}_3/\gamma\text{-Fe}_2\text{O}_3$ core/shell-like thin films / 정중훈, 성길동, 박영안, 허남정(인하대학교 물리학과)

P4-D164

Effects of oxygen vacancy on the electrical and magnetic properties in $\text{La}_{0.9}\text{Ba}_{0.1}\text{MnO}_3$ bulk system / LEE Keundong, GWON Hyojin¹, KANG Minkyu¹, HWANG Inrok¹, JIN Hyunwoo¹, BAEK seunghyup¹, LEE suyoun¹, KIM jinsang¹, PARK baeho(Division of Quantum Phase & Devices, Dept. of Physics, Konkuk University, Seoul 143-701, South Korea. ¹Electronic Materials Research Center, Korea Institute of Science and Technology, Seoul 13-791, South Korea)

P4-D165*

Charge ordering behavior of Nb doped SrTiO_3 epitaxial film deposited by Pulsed Laser Deposition (PLD) method / LEE Suyoun, JIN Hyunwoo, LEE Keundong, HWANG Inrok, BEAK Seung-Hyub, KIM Jinsang, PARK Baeho¹, JOUNG Jingwan(KIST. ¹Konkuk University)

P4-D166*

영-자기장 Mn NMR을 이용한 MnF_3 의 자기특성 조사 / 최백순, 이순철, 김창수(한국과학기술원. ¹한국기초과학지원연구원)

P4-D167*

결정구조 변화에 따른 $\text{BaTi}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ 의 물리적 특성 연구 / 김덕현, 이보화, 이민영, 권윤미(한국외국어대학교 물리학과)

P4-D168*

Pt/Co/Pt 박막에서 이방성 에너지 변화에 따른 자구벽 이동성 / 김덕호, 유상철, 문경웅, 김대연, 조정구, 민병철, 최석봉(서울대학교, 물리천문학부. ¹한국과학기술연구원)

P4-D169*

The Effect of Electric Field on Multiferroic $\text{Ba}_{0.5}\text{Sr}_{1.5}\text{Zn}_2(\text{Fe}_{0.92}\text{Al}_{0.08})_{12}\text{O}_{22}$ Investigated by ^{57}Fe NMR / 권상일, 강병기, 조은아, 이순철, CHAI Yi Sheng¹, 천세환¹, 김기훈¹(KAIST 물리학과. ¹서울대학교 물리천문학과)

P4-D170*

Magnetic properties of $\text{FeRh}(011)$ thin films for magnetocaloric material / JEKAL soyoung, KWON oryong, HONG Sooncheol(Department of Physics and EHSRC, University of Ulsan)

P4-D171*

Anisotropic texture and magnetic properties of Dy-free Nd-Fe-B based permanent magnets with hot deformation process / OH Suekyung, RHYEE Jong-Soo, JUNG Hyein¹, YUH Junhan²(경희대학교 물리학과. ¹경희대학교 응용물리학과. ²POSCO)

P4-D172*

The study on a magnetic ordering transition of Co Z-type hexaferrite by using soft x-ray resonant scattering / 박재훈, 양동혁, 천세환, 김기훈¹, 김재영², 이한구², 박병규²(포스텍, 물리학과. ¹서울대학교, 물리천문학부. ²포항공대 연구소)

SESSION P4

응용물리학과
포스터 발표

2013년 11월 1일 금요일 11:00 - 12:45

장 소 : 포스터발표장

P4-E083

Temperature Dependence of Electronic Structures in $\text{Li}_x\text{La}_{(2/3-x)}\text{TiO}_3$ Amorphous Films / SUNG Nark-Eon, LEE Ik Jae, JUNG Sung-hoon(Beamline Department, Pohang Accelerator Laboratory, POSTECH)

P4-E084

Influence of V_2O_5 Content on the Structure of V^{4+} ion-environment in $\text{BaO-B}_2\text{O}_3\text{-V}_2\text{O}_5$ Glasses / 노태호, 김영훈, 최덕, 송승기(명지대학교 물리학과)

P4-E085

SC Wire Test Facility in High Magnetic Field / 김동락, 이윤아, 김성준, 박희준(한국기초과학지원연구원)

P4-E086

A Study on Temperature Control for Operation of VTI / 이윤아, 김동락, 최연석(한국기초과학지원연구원, 물성과학연구부)

P4-E087

Carbon nano colloid 열확산도의 온도 의존성에 대한 연구 / 이재란, 정찬배, 강만일, 김석원(울산대, 물리학과)

P4-E088

Fabrication and Characteristics Analysis of Piezoelectric Energy Scavenger based on Piezoelectric Single Crystal for Self-Powered Sensor Node / 문승연, 최낙진, 양우석, 권중기(한국전자통신연구원)

P4-E089

Forming-free Resistance Switching in $\text{Pt/TaO}_x/\text{Pt}$ Structures / LIU Chunli, LEE Bowha, JUNG ChangUk(한국외국어대학교 물리학과)

P4-E090

Rugate 다공성 실리콘 박막을 이용한 정전식 기체 센서 / 이응배, 김혁기, 이주현, 김나경, 이기원(공주대학교, 물리학과)

P4-E091

Compensation-type fire detector using Metal-Insulator Transition critical-temperature switch / JUNG Sun-Kyu, KIM Hyun-

Tak(ETRI, MIT Creative research Center)

P4-E092

잉크젯 프린트 방법을 이용한 그래핀 전극의 유연구동기 제작 및 구동능력 평가 / 임기홍, 최현광(삼성전자, '인제대학교, 나노공학과)

P4-E093

($\text{La}_{0.94-x}\text{Yb}_{0.06}$) $\text{TaO}_4\text{:Tm}^{3+}$ 형광체의 Up-conversion 형광특성 / 이성수, 최동화, 강덕화(신라대학교, 신소재공학과)

P4-E094

Charge Compensation Effects in Dy^{3+} -doped Calcium Silicate Phosphors / 하명규, 한경림, 홍태은, 양호순, 홍경수(한국기초과학지원연구원 부산센터, '부산대학교 물리학과)

P4-E095

The Luminescence Properties of Eu^{3+} doped Gd_2MoO_6 / JEONG Jung Hyun, KWON Sook Hyun, MOON Byung Kee, CHOI Byung Chun(Department of Physics, Pukyong National University)

P4-E096

Synthesis and Photoluminescence Properties of Sm^{3+} -doped Y_6WO_{12} Phosphors / JEONG Jung Hyun, YU Ruijin, NOH Hyeon Mi, MOON Byung Kee, BYUNG CHUN Choi, JANG Kiwan'(Department of Physics, Pukyong National University. 'Department of Physics, Changwon National University)

P4-E097

ZnO:CNT 가스센서의 제조와 열처리온도에 따른 특성연구: 윤소진, 유일(동의대학교 물리학과)

P4-E098

임피던스 분광을 통한 뇨 속의 당 검출 가능성 연구 / 박종호(진주교육대학교, 과학교육과)

P4-E099

High sensitivity DNA sensors based on graphene/cysteamine self-assembled monolayer / 이지은, 박형기, 이은철(가천대학교, 바이오나노학과, '가천대학교, 나노물리학과)

P4-E100

The Geometrical Accuracy Measurement for MRI-Fusion Study with PET in Leksell GammaPlan / LIM SA HOE, JUNG SHIN, KIM IN YOUNG, JUNG TAE YOUNG, MOON KYUNG SUB, JANG WOO YOUL, PARK

SEUNG JIN¹(Chonnam Natioanl University Hwasun Hospital, Neurosurgery.
¹Chonnam Natioanl University Hospital, Biomedical Engineering)

P4-E101

Efficacy Evaluation of Vacuuous Pulse and Replete Pulse by using Clip-type Pulsimeter Equipped with a Magnetic Sensing Hall Device / LEE Nam-Kyu, CHANG Sei-Jin¹, YU Jun-Sang², RHEE Jin-Kyu³, LEE Sang-Suk(Dept. of Oriental Biomedical Engineering, College of Health Sciences, Sangji University, Republic of Korea. ¹Dept. of Preventive Medicine, Wonju College of Medicine, Yonsei University, Republic of Korea. ²Dept. of Sasang Constitutional Medicine, Korean Medical Hospital, Sangji University, Republic of Korea. ³Division of Bio-Imaging, Chuncheon Center, Korea Basic Science Institute, Republic of Korea)

P4-E102

홀소자를 이용한 집게형 맥진기에서 손목 맥동의 변위에 따른 영구자석의 자기장 시뮬레이션 연구 / 박태영, 김용진, 이상석(상지대학교, 한방의료공학과)

P4-E103

A high Q resonator using impedance matching technique at microwave frequencies / LEE Hee-Jo(Yonsei University, Institute of Convergence Technology)

SESSION P4

반도체물리학분과회
포스터 발표

2013년 11월 1일 금요일 11:00 - 12:45

장소: 포스터 발표장

P4-K039*

Local bonding effect on the acceptor level of Mg in quaternary AlInGaN alloys / KIM Sunghyun, PARK Ji-Sang¹, CHANG Kee Joo(Department of Physics, Korea Advanced Institute of Science and Technology. ¹National Renewable Energy Laboratory, Golden, Colorado 80401, USA)

P4-K040

Comparison of optical properties of GaN nanostructures formed by reactive ion etching and chemical vapor-phase etching methods / CHO Jong-Hoi, KIM Je-Hyung, CHO Yong-Hoon(한국과학기술원, 물리학과)

P4-K041

Wavelength Tuning of ZnO Nanorod using CdO / KIM Min Su, LEE Ju Bok, KIM Jeongyong(Sungkyunkwan University, Department of Energy Science)

P4-K042

절연성 고분자 층에 분산된 C₆₀에 삽입한 누설전류 완화층을 사용하여 제작한 유기 쌍안정성의 안정성 / 류준정, 윤동열, 김태환(한양대학교, 전자컴퓨터통신공학과)

P4-K043

코어-셸 나노입자가 분산된 유기물 박막을 사용하여 제작한 플렉서블 메모리 소자의 전기적 특성과 전하수송 메커니즘 / 주양, 윤동열, 김태환(한양대학교, 전자컴퓨터통신공학과)

P4-K044

Sputtering법으로 제조한 Al-doped ZnO 박막의 O₂ 영향 / 고흥주, 박광훈¹, 고영희², 김치훈², 하준석¹, 지택수², 김영호³(한국광기술원 광바이오연구센터. ¹한국광기술원 광바이오연구센터, 전남대학교 신화학소재공학과. ²한국광기술원 광바이오연구센터, 전남대학교 전자컴퓨터공학과. ³(주)다쓰테크 뉴프로젝트팀)

P4-K045

Sputter Depositions of ZnO and Ga-doped ZnO Thin Films / 전병익, 정종원(한국과학영재학교, 물리지구과학부. ¹한국과학영재학교)

P4-K046

고분자 박막 안에 분포 된 코어-셸 나노입자를 이용한 메모리 소자에서 셸의 유무에 따른 전하저장 능력에 대한 특성 / 윤동열, 김태환, 김상욱(한양대학교, 전자컴퓨터통신공학과, ¹아주대학교, 분자과학기술학과)

P4-K047

Syntheis of Carbon Dots using SiC / 유성호, 조성오(KAIST, 원자력 및 양자공학과)

P4-K048

Thickness dependence for the $Cd_{1-x}Mn_xTe$ thin films grown by the magnetron co-sputtering / AHN Heejin, UM Youngho(Department of Physics, University of Ulsan 680-749)

P4-K049

Ge을 core로 하는 core-shell 나노선 구조 / 김형수, 송만석, 김용(동아대학교)

P4-K050

Characterization of Gd- or Eu-doped ZnO Films Prepared by Sol-Gel Process / 배지환, 이승진, 조신희(신라대학교 신소재공학과)

P4-K051

Indium 함량에 따른 InGaN 기반 수직형 Solar Cell의 특성 연구 / 김승환, 박현호, 송영호¹, 박형조¹, 전성란¹, 양계모(전북대학교, ¹한국광기술원)

P4-K052

Investigation of ferromagnetism in p-type Li doped ZnO thin film: Zinc vacancy in the system / Li Guojie, LEE Joo Hyun, KIM Saes Byul, PARK Sung Wook, JEONG Jung Hyun, CHOI Byung Chun(Department of Physics, Pukyong National University, Busan 608-737, Korea)

P4-K053

GaN and AlGaN Quantum Dots from Droplet Epitaxy by Metal Organic Chemical Vapor Deposition / 전성란, 김승환, 송영호(한국광기술원/응용모듈연구센터)

P4-K054

고분해능 XRD를 이용한 단결정 웨이퍼의 잔류응력 분석 / 김창수, 이유민, 전현구¹, 정인영¹, 정양수²(한국표준과학연구원, ¹한국표준과학연구원& 충남대학교 물리학과, ²충남대학교 물리학과.)

P4-K055

A Study Of CdS Quantum Dots On TiO₂ Photoanodes For CdS

Quantum Dot Sensitized Solar Cells / 김재호, 김건영(경북대학교, 물리학과)

P4-K056

Defect-related Blue and Green Emissions from PEG Capped Zn_{1-x}Al_xS Nanoparticles / LIU Chunli, REDDY D. A.(한국외국어대학교 물리학과)

P4-K057

Investigation of Ferromagnetism in p-type Li doped ZnO Thin Film: Zinc Vacancy in the System / Li Guojie, LEE Joo Hyun, KIM Saes Byul, PARK Sung Wook, JEONG Jung Hyun, CHOI Byung Chun(Department of Physics, Pukyong National University, Busan 608-737, Korea)

P4-K058

유연 CI(G)S 박막태양전지를 위한 NaF 첨가 연구 / 박광훈, 고영희, 김치훈¹, 고향주², 하준석³, 지택수⁴, 김영호⁵(한국광기술원 광바이오연구센터, 전남대학교 신화학소재공학과, ¹한국광기술원 광바이오연구센터, 전남대학교 전자컴퓨터공학과, ²한국광기술원 광바이오연구센터, ³전남대학교 신화학소재공학과, ⁴전남대학교 전자컴퓨터공학과, ⁵(주)다쓰테크 뉴프로젝트팀)

P4-K059

진공증착 법으로 ITO 기판 위에 성장한 Zn,Cd_{1-x}S 박막의 물리적 특성 / 이정주, 윤은정, 한동헌, 최수창, 박창영, 김건호(경상대학교, 물리학과)

P4-K060

Gas-source MBE를 이용한 저온 m면 GaN 완충층 성장 / 정수훈, 최성국, 장원범, 이정우¹, 이상태², 장지호(한국해양대학교 응용과학과 반도체 물리전공, ¹한국해양대학교 해양과학기술전문대학원, ²한국해양대학교 해양플랜트운영학과)

P4-K061

Poly silicon heater 를 사용한 반도체식 알코올 센서 제작 및 특성연구 / 박재민, 이승환¹, 이남권¹, 임준우², 유윤식³(동의대학교 it융합학과, ¹동의대학교 부산it융합부품연구소, ²경남정보대학 전자정보계열, ³동의대학교 부산it융합부품연구소, 동의대학교 방사선학과)

P4-K062

Ultra-fast carrier lifetimes of vapor-liquid-solid grown GaN/InGaN multi-quantum well coaxial nanorods / EBAID Mohamed, KANG Jin-Ho, LEE Seung-Min, RYU Sang-Wan(Department of Physics, Chonnam National University)

P4-K063

Solvothermal synthesis and scanning photocurrent mapping studies of CuS nanowires / KIM JUNG DONG, GOSWAMI SYAMANTA KUMAR, YU DONG¹, OH EUNSOON(충남대학교, 물리학과. ¹University of California, Davis, Department of Physics)

P4-K064

MaCE(Metal-Assisted Chemical etching)에 의한 GaAs 마이크로 구조 제어 및 메커니즘 연구 / 이아리, 김정길, 김명상, 김성, 최석호, 신재철(한국광기술원 광바이오센터. ¹경희대학교 물리학과)

P4-K065

Optimization of Rapid Thermal Process Using Measuring Real-Time Temperature of Cu₂ZnSnS₄ (CZTSSe) Absorption Layer / JO Hyun-Jun, SON Dae-Ho, SUNG Shi-Joon, KANG Jin-Kyu, KIM Dae-Hwan(대구경북과학기술원)

P4-K066

Photoluminescence Imaging을 이용한 GaN계 LED 웨이퍼 결함 검사 / 김종석, 김형태, 김승택, 정훈(한국생산기술연구원)

P4-K067

Mn-doped CdGa₂Se₄ 결정의 광학적 특성 / 최성후, 방태환, 서동주(조선대학교, 물리학과. ¹조선대학교, 물리교육과)

P4-K068

p-CuGaSe₂: Ni / n-CdS 이종접합태양전지 효율 측정 / 홍광준(조선대학교 물리학과)

P4-K069

광발광 측정으로부터 얻어진 CuInSe₂ 에피레이어의 엑시톤 에너지 연구 / 유상하, 홍광준(조선대학교 물리학과)

P4-K070

화학적 수송법에 의해 성장된 CdSe 단결정의 온도 의존성의 홀 효과 연구 / 홍광준(조선대학교 물리학과)

P4-K071

Study on Raman spectrum of the CdS/GaAs epilayer measured at room temperature / HONG Kwangjoon(Department of Physics, Chosun University)

P4-K072

Ag 나노입자를 포함한 polymethylmethacrylate 고분자 층을 사용하여 제작한 유기 플로팅 게이트 메모리 소자의 전하수송 메커니즘 / 김유나, 윤동열, 김태환(한양대학교 융합전자공학부. ¹한양대학교 전자컴퓨터통신공학과. ²한양대학교 전자컴퓨터통신공학과, 한양대학교 융합전자공학부)

P4-K073

Temperature and magnetic field dependence of radiative recombination time in ZnO nanorods / 김광석, 이우진¹, KIBA Takayuki², MURAYAMA Akihiro², SALLET Vincent³, DONATINI Fabrice³(부산대학교 인지메카트로닉스공학과, 물리교육과. ¹부산대학교 인지메카트로닉스공학과. ²Graduate School of Information Science and Technology, Hokkaido University, Sapporo, Japan. ³Department of NANOScience, Institut Neel, CNRS, Grenoble, France)

P4-K074

플라스틱 기반 콜레스테릭 액정 디스플레이: 러빙 및 cell gap에 따른 특성 변화 / 김기현, 이원재, 김한나, 류호준, 추혜용(한국전자통신연구원)

P4-K075

플라스틱 기반 콜레스테릭 액정 디스플레이: chiral dopant와 LC에 따른 특성 변화 / 김기현, 김한나, 이원재, 류호준, 추혜용(한국전자통신연구원)

P4-K076

Dielectric Function and phonon of Ge_{1-x}Se_x and Ge_{1-x-y}Se_xAs_y Chalcogenide Glasses / 이호석, 신혜영, 윤석현¹, 소현섭, 이호선, 안형우², 김수동², 이수연², 정두식², 정병기²(경희대학교 응용물리학과. ¹이화여자대학교 물리학과. ²한국과학기술연구원)