

한국 물리학회 회보

2014년
가을학술논문발표회
및 임시총회

김대중컨벤션센터
2014. 10. 22(수)~24(금)

후원



광주관광컨벤션뷰로
GWANGJU CONVENTION & VISITORS BUREAU

KPS 한국물리학회
The Korean Physical Society

The Korean Physical Society

구두발표논문 시간표

2014년 10월 22일(수) 학회주관세션

[AP1] 한국물리학회/APCTP 기초강연 I

2014년 10월 22일 수요일 17:00-18:00

장소: 컨벤션홀 4층 제3회의실

좌장: 이 범 훈 서강대

AP-01 [17:00-18:00]

물리학: 우주를 보는 눈 / 이기명(고등과학원)

2014년 10월 23일(목) 학회주관세션

[A1] 정책세션: 2015 고등학교 물리교육과정의 방향

2014년 10월 23일 목요일 10:00-12:00

장소: 207호

좌장: 오 원 근 충북대

A1-01 [10:00-10:30]

2015년 교육과정 개정 동향 / 정진수(충북대)

A1-02 [10:30-11:00]

2009년 고교물리교육과정의 장단점 / 홍석철(고려대)

A1-03 [11:00-11:30]

2015년 물리교육과정의 지향점 / 박종원(전남대)

A1-04 [11:30-12:00]

종합토론

[A2] 여성세션: "저자와의 만남-과학과 인문학의 탕고"

2014년 10월 23일 목요일 11:30-13:00

장소: 컨벤션홀 311/312호

좌장: 윤 진 희 인하대

A2-01 [11:30-11:40]

인사말 및 여성위 활동보고 / 서은경(여성위 위원장, 전북대 교수)

A2-02 [11:40-11:50]

ICWIP 참가보고 및 설문조사 정리 / 조연정(경북대 교수)

A2-03 [11:50-12:00]

세션 설문 정리 / 김시연(중앙대 교수)

A2-04 [12:00-12:15]

여성회원들의 역량 강화 방안 및 여성위에 기대하는 바 / 김승환(포항공대 교수)

A2-05 [12:15-12:50]

"과학과 인문학의 탕고" / 황진명(저자, 인하대 명예교수)

[AP2] 한국물리학회/GIST 기조강연 II

2014년 10월 23일 목요일 13:00-14:00

장소: 컨벤션홀 4층 제3회의실

좌장: 노 태 원 서울대

AP-02 [13:00-14:00]

Magnetism and Topology / Y. Tokura(RIKEN, CEMS and Univ of Tokyo)

[A3] 특별세션: 물리학용어심의위원회 특별세션

—물리학 한글용어의 개선과 정착을 위하여—

2014년 10월 23일 목요일 14:00-15:00

장소: 207호

좌장: 오 정 근 수리과학원

A3-01 [14:00-14:15]

물리학 용어와 물리학용어심의위 활동 소개 / 유건호(경희대)

A3-02 [14:15-14:30]

물리학용어 사례 조사연구 - 〈새물리〉를 중심으로 / 한문섭(서울시립대)

A3-03 [14:30-15:00]

패널토론

[A4] 정책세션: 창조경제와 물리학

2014년 10월 23일 목요일 15:00-17:30

장소: 305/306호

좌장: 이 재 일 인하대

A4-01 [15:00-15:40]

신소재 개발을 통한 창조경제 기업전략: 아모텍 사례를 중심으로 / 김병규
((주)아모텍 회장)

A4-02 [15:40-16:20]

물리학 연구에서 창업까지: 성공적인 창업 및 직장생활 / 남재국((주)에프알
텍 대표이사)

A4-03 [16:20-17:00]

기술창업과 물리실험 / 손대락(한남대학교)

A4-04 [17:00-17:30]

**미래창조과학부 2015년도 신규사업 소개 및 설명 / 남계춘(한국연구재단
자연과학단장)**

[A5] KIAS 대중강연

2014년 10월 23일 목요일 18:00-19:50

장소: 컨벤션홀 4층 제3회의실

좌장: **이 필 진** KIAS

A5-01 [18:00-18:50]

우주의 팽창 / 박창범(KIAS)

A5-02 [19:00-19:50]

A Tale of Two Pulsars / 박명구(경북대)

물리회원의 밤

2014년 10월 23일 목요일 18:30 - 21:00

장소: 포스터발표장

“영상편지/신임정회원 소개/회원공연 등”

영상편지 이벤트

“고마운 마음 (은사, 은인)”, “사랑고백”, “학회 움부즈맨” 등의 사연을 담은 동영상이나 유튜브 링크를 응모해 주세요. 자유로운 이벤트의 장에 참여해 주시고, 푸짐한 경품의 행운도 함께하시기를 바랍니다. 발표 및 시상도 ‘물리회원의 밤’에서 진행됩니다.

신임교수 및 초임연구원 소개

신임교수 및 초임연구원님들의 자기소개 시간을 마련했으니, 적극적인 참여 바랍니다. 참여해주시는 회원님들께는 소정의 상품을 드립니다.

2014년 10월 22일(수) 입자물리학회 구두 발표

[BG1] 입자물리학회 General Session: QCD

2014년 10월 22일 수요일 15:00 – 16:15

장소: 201호

좌장: 이 원 종 서울대

BG-01 [15:00-15:15]

Lattice Calculation of BSM Kaon B-parameters using improved staggered fermions in $N_f = 2+1$ QCD. / LEE Weonjong, LEEM Jaehoon, JANG Yong-Chull, KIM Jangho, PARK Sungwoo, PAK Jeonghwan, JEONG Hwancheol, SHARPE Stephen¹, YOON Boram²(Seoul National University. ¹University of Washington. ²Los Alamos National Laboratory.)

BG-02 [15:15-15:30]

Landau Gauge Fixing with Fourier Acceleration on the Lattice / PARK Sungwoo, KIM Jangho, LEE Weonjong(Seoul National University.)

BG-03 [15:30-15:45]

Non-perturbative Renormalization for B_K with Staggered Quarks / 김장호, 박성우, 박정환, 이원종, 정환철(서울대학교.)

BG-04 [15:45-16:00]

Conserved Chiral Currents in Lattice QCD / 이원종, CUNDY NIGEL(Physics and Astronomy, Seoul National University.)

BG-05 [16:00-16:15]

Testing the Standard Model with lattice QCD and effective field theory / BAILEY Jon A.(Dept. of Physics, Seoul National Univ.)

[BG2] 입자물리학회 General Session: 지하실험 1

2014년 10월 22일 수요일 15:00 – 16:30

장소: 202호

좌장: 김 수 봉 서울대

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

Energy calibration at RENO / 김상용, 김우영¹, 선용근¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 김수봉⁶, 박정식⁶, 서선희⁶, 서현관⁶, 이동하⁶, 이병훈⁶, 이순규⁶, 최선호⁶, 최원국⁶, 양장희⁷, 유인태⁷, 최영일⁷, 김영덕⁸, 전은주⁸, 김바로⁹, 김승찬⁹, 박령균⁹, 김재률⁹, 소선행⁹, 송숙형⁹, 신창동⁹, 여인성⁹, 임인택⁹, 주경광⁹, 김현수¹⁰, 김시연¹¹, 고영주¹¹(서울대학교. ¹경북대. ²경상대. ³광주과학기술원. ⁴동신대. ⁵서영대. ⁶서울대. ⁷성균관대. ⁸BS/세종대. ⁹전남대. ¹⁰전북대. ¹¹중앙대.)

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

Precise measurement of reactor neutrino spectrum at RENO / 서현관, 김우영¹, 선용근¹, 장지승², 박명렬³, 최준호³, 장한일⁴, 김상용⁵, 김수봉⁵, 박정식⁵, 서선희⁵, 이동하⁵, 이병훈⁵, 이순규⁵, 최선희⁵, 최원국⁵, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 박령균⁸, 김재률⁸, 소선행⁸, 송숙형⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김현수⁹, 김시연¹⁰, 고영주¹⁰(서울대학교, 물리학과. ¹경북대학교, ²광주과학기술원, ³동신대학교, ⁴서영대학교, ⁵서울대학교, ⁶성균관대학교, ⁷IBS/세종대, ⁸전남대학교, ⁹전북대학교, ¹⁰중앙대학교.)

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

New results from RENO / 김수봉, 김우영¹, 선용근¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 김상용, 박정식, 서선희, 서현관, 이동하, 이병훈, 이순규, 최선희, 최원국, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 박령균⁸, 김재률⁸, 소선행⁸, 송숙형⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김현수⁹, 김시연¹⁰, 고영주¹⁰(서울대학교, ¹경북대학교, ²경상대학교, ³광주과학기술원, ⁴동신대학교, ⁵서영대학교, ⁶성균관대학교, ⁷IBS/세종대, ⁸전남대학교, ⁹전북대학교, ¹⁰중앙대학교.)

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

Status of SBL Experiment / 고영주, 김홍주¹, 이주영¹, 김현욱², 김영덕², 박강순², 박향규², 이재승², 이정연², 전은주², KHAN Nasir², 김진우³, 마경주³, 김바로⁴, 김승찬⁴, 소선행⁴, 송숙형⁴, 여인성⁴, 주경광⁴, 김현수⁵, 서경민⁵, 여강모⁵, 김시연, 선광민⁶, 한보영⁶, 강정수⁷, 박현서⁷(중앙대학교, 물리학과. ¹경북대학교, 물리학과. ²기초과학연구원, 지하실험연구단. ³세종대학교, 물리학과. ⁴전남대학교, 물리학과. ⁵전북대학교, 물리학과. ⁶한국원자력연구원. ⁷한국표준과학연구원.)

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

Experimental Requirements to Determine the Neutrino Mass Hierarchy Using Reactor Antielectron Neutrinos / PAC Myoung Youl, CHOI June Ho(Dongshin University.)

BG-11 [16:15-16:30]

Observation of reactor neutrino oscillation with neutron captures on Hydrogen / 서선희, 김상용, 김수봉, 박정식, 서현관, 이동하, 이병훈, 이순규, 최선희, 최원국, 김우영¹, 선용근¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 박령균⁸, 김재률⁸, 소선행⁸, 송숙형⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김현수⁹, 김시연¹⁰(서울대학교, 물리학과. ¹경북대학교, 물리학과. ²경상대학교, 물리학과. ³광주과학기술원, 물리학과. ⁴동신대학교, 물리학과. ⁵서영대학교, 물리학과. ⁶성균관대학교, 물리학과. ⁷IBS/세종대학교, 물리학과. ⁸전남대학교, 물리학과. ⁹전북대학교, 물리학과. ¹⁰중앙대학교, 물리학과.)

[BG3] 입자물리학회 분과회 General Session: 현상론

2014년 10월 23일 목요일 09:00 – 10:15

장소: 201호

좌장: 이 정 일 고려대

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

Relativistic corrections to Higgs-boson decays to quarkonia /
GEOFFREY Bodwin, CHUNG Hee Sok, EE June-Haak¹, LEE Jungil¹, PETRIELLO
Frank²(Argonne National Laboratory. ¹Korea University. ²Northwestern University.)

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

**Fragmentation Contributions to J/ψ Production at the Tevatron
and the LHC /** KIM U-Rae, LEE Jungil, BODWIN Geoffrey¹, CHUNG Hee
Sok¹(고려대학교, 물리학과. ¹Argonne National Laboratory.)

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

**A Systematic Halo-independent Analysis of Direct Detection Data
within the Framework of Inelastic Dark Matter /** SCOPEL stefano, 윤
국현(Sogang Univ..)

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

X-ray line at 3.55 keV from decaying, thermal dark matter / LEE
Hyun Min(Chung-Ang University.)

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

Large tensor spectrum of BICEP2 and its implications / 계범석, 최기
영(부산대, 물리학과. ¹천문연.)

[BG4] 입자물리학회 분과회 General Session: 끈, 장론

2014년 10월 23일 목요일 11:00 – 12:00

장소: 201호

좌장: 김 찬 주 이화여대

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

**Thermoelectric AC Conductivities in a Holographic Model of
Momentum Relaxation /** KIM Keun-Young, KIM Kyung Kiu, SEO Yunseok¹,
SIN Sang-Jin¹(GIST. ¹Hanyang U.)

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

Holographic Quantum Hall System with Impurity / SEO Yunseok,
KIM Keun-Young¹, KIM Kyung-Kiu¹, SIN Sang-Jin(Hanyang University. ¹GIST.)

BG-19 [11:30-11:45]

Holographic Superconductor with momentum relaxation / 김경규,
김근영, 박미옥(GIST. ¹서강대학교.)

BG-20* [11:45-12:00]

Quasi-local conserved charges and holography / HYUN Seungjoon, JEONG Jaehoon, YI Sang-Heon, PARK Sang-A(Department of Physics, Yonsei University.)

[BG5] 입자물리학회 General Session: 지하실험 2

2014년 10월 23일 목요일 09:00 – 10:30

장소: 202호

좌장: 김 영 덕 세종대

BG-21 [09:00-09:15]

Status of KIMS-Nal experiment / 김경원(IFS-Center for Underground Physics, 서울대학교 (KIMS collaboration).)

BG-22 [09:15-09:30]

Low temperature light detectors for AMoRE / 소중호, AMoRE collaboration¹(Institute for Basic Science, Center for Underground Physics. ¹AMoRE collaboration.)

BG-23 [09:30-09:45]

Detector Simulation For AMoRE and KIMS-LT / 이주희(한국표준과학연구원, 양자측정센터.), AMoRE collaboration

BG-24 [09:45-10:00]

Status of AMoRE, a Search for Neutrinoless Double Beta Decay / YOON Young Soo(on the behalf of AMoRE collaboration)(기초과학연구원.)

BG-25* [10:00-10:15]

Recent results on AMoRE detectors / 김건보(서울대학교, 기초과학연구원.)

BG-26 [10:15-10:30]

The 4th Tau Neutrino Candidate Event in the OPERA Experiment / YOON Chun Sil, PARK In Gon, KIM Ji Hyun, KIM Sung Hyun¹, PARK Byung Do²(GNU. ¹CUP, IBS. ²Changwon Samsung Hospital, SKKU.)

[BG6] 입자물리학회 General Session: 충돌실험 1

2014년 10월 23일 목요일 11:00 – 12:30

장소: 202호

좌장: 최 영 일 성균관대

BG-27 [11:00-11:15]

Search for doubly charged Higgs bosons at CMS at $\sqrt{s}=8\text{TeV}$ at CMS experiment / LEE Jongseok, CHOI Youngil, CHOI Suyong¹(Sungkyunkwan University, Department of Physics. ¹Korea University, Department of Physics.)

BG-28 [11:15-11:30]

Phantom Generation For VBF Off-shell Higgs $\rightarrow WW \rightarrow l\nu\nu$ Production / NAM Soon-Kwon, KROIVNITSKAYA Anna, KIM TaeHoon, KIM JungMin, NAM YeonSeo(Kangwon National University.)

BG-29 [11:30-11:45]

Flavor Changing Neutral Currents in top production and decay at CMS / 김태정(전북대 물리학과.)

BG-30 [11:45-12:00]

Pseudotop Analysis for Measurement of the $t\bar{t}$ Production Cross Section in the Dilepton Channel in pp Collisions at $\sqrt{s}=8$ TeV / ROH Youn Jung, CHOI Suyong, GOH Junghwan¹(Korea University, Physics. ¹Sungkyunkwan University, Physics.)

BG-31 [12:00-12:15]

Measurement of the top quark mass with the BEST method in the muon + jets channel / KWON Eunhyang, KIM Min Suk¹, GOH Junghwan, YU Intae, KIM donghee¹, KAMON Teruki²(성균관대학교. ¹경북대학교. ²경북대학교, Texas A&M University.)

BG-32* [12:15-12:30]

Measurement of the fraction of top quark pair events produced via gluon-gluon fusion at the Tevatron in lepton+jets final states / LIM jaehoon(Korea University.)

[LP1] 입자물리학과/천체물리학과회 Pioneering Symposium

2014년 10월 23일 목요일 14:00 - 15:45

장소: 201/202호

좌장: Carsten Rott 성균관대

LP-01 [14:00-14:10]

Discovery and origin of high-energy neutrinos / 로트 카르스텐 (Sungkyunkwan University, Physics Department.)

LP-02 [14:10-15:10]

Neutrino Astronomy, no longer a dream / FRANCIS Halzen(UW Madison.)

LP-03 [15:10-15:45]

Search of highest energy neutrinos / SHIGERU Yoshida(Chiba University.)

[LP2] 입자물리학분과회/천체물리학분과회 Pioneering Symposium

2014년 10월 23일 목요일 16:00 – 17:40

장소: 201/202호

좌장: Carsten Rott 성균관대

LP-04 [16:00-16:25]**Unveiling the Origin of High-Energy Neutrinos Observed by IceCube** / IOKA Kunihito(KEK, Japan.)**LP-05** [16:25-16:50]**PeV Neutrinos in IceCube** / ISHIHARA Aya(Chiba University.)**LP-06** [16:50-17:15]**High Energy Cosmic Ray Physics from the ISS-CREAM mission /** PARK Il Hung(성균관대학교(SKKU).)**LP-07** [17:15-17:40]**UHECR Source Search** / 김항배(한양대학교.)**입자물리학분과회 분과총회**

2014년 10월 23일 목요일 17:45 – 18:00

장소: 201/202호

2014년 10월 24일(금) 입자물리학분과회 구두 발표

[BG7] 입자물리학분과회 General Session: 총돌실험 2

2014년 10월 24일 금요일 09:00 – 10:45

장소: 202호

좌장: 김 동 희 광주과학기술원

BG-33 [09:00-09:15]**Measurements of the differential Drell-Yan cross sections at $\sqrt{s} = 7$ TeV and 8 TeV** / YOO Hwidong(Seoul National University.)**BG-34** [09:15-09:30]**Measurement of the transverse momentum of W bosons in pp collisions at $\sqrt{s} = 8$ TeV** / PARK SangIl, LEE SaneEun, SON DongChul, KIM GuiNyun, YUSUPOV Hammid, BUTANOV Khakimjan, NAM SoonKwon¹(The Center for High Energy Physics, Kyungpook National University. ¹Kangwon National University.)**BG-35** [09:30-09:45]**Search for heavy neutrinos at $\sqrt{s}=8$ TeV using the CMS detector** / 서선희, 오성빈, 유금봉, 이한열, ALMOND John, 양윤기(서울대학교 물리천문학부.)

BG-36* [09:45-10:00]

Search for a vector-like bottom quark partner in same sign dilepton final states / 조용진, 최영일, 최영규(Sungkyunkwan University.)

BG-37* [10:00-10:15]

Color coherence at 8 TeV / HYUNYONG Kim, JASON Lee, INKYU Parck(University of Seoul.)

BG-38 [10:15-10:30]

Purely leptonic B meson decay at Belle / KWON Youngjoon, YOOK youngmin, PARK chanseok(연세대학교 물리학과.)

BG-39* [10:30-10:45]

A study of initial state gluon radiation on the Drell-Yan events at the LHC / 박재균, 김준호, 유금봉, ALMOND John, 양운기(서울대학교 물리천문학부.)

[BG8] 입자물리학분과회 General Session: 충돌실험 3

2014년 10월 24일 금요일 11:00 - 12:45

장소: 202호

좌장: 양운기 서울대

BG-40 [11:00-11:15]

The Performance of Muon Spectrometer at CMS beyond Phase I and II upgrades / CHOI Suyong, LEE Sehwook, ROH Youn, KIM Taejeong¹(Korea University. ¹Chonbuk N. University.)

BG-41 [11:15-11:30]

Muon Trigger Level 1 Upgrade in CMS / LEE Jason, PARK Inkyu, RYU Minsang¹, KIM Jihyun, CHOI Minkyoo, RYU Geonmo, KIM Hyunyoung, JEON Dajeong, CHOI Kijin, HEO Geonwoo(University of Seoul, Department of Physics. ¹Chonbuk National University, Department of Physics.)

BG-42* [11:30-11:45]

Level 1 E/gamma Trigger Algorithm based on Pixels for CMS detector at LHC / 오성빈, 김준호, 문창성¹, SAVOY-NAVARRO Aurele¹, 양운기(서울대학교, 물리천문학부. ¹APC, University Paris-Diderot/CNRS & INFN-Pisa)

BG-43 [11:45-12:00]

GEM Production and R&D of GEM Detector by the Korea CMS / RYU Min Sang, PARK Inkyu, CHOI Minkyoo, KIM Hyunsoo¹, JUNG Tae Sung², KIM Hyoungmin²(University of Seoul. ¹Chonbuk National University. ²Mechanics.)

BG-44 [12:00-12:15]

Implementation of the No PileUp and MVA MET at the RECO level20' / SOONKWON NAM, JUNGMIN KIM, YEONSEO NAM, SANGEUN LEE¹, KHAKIMJAN BUTANOV¹(강원대학교, 물리학과. ¹경북대학교, 물리학과.)

B

BG-45 [12:15-12:30]

Study of LAMBDA production in KOL+ AI interactions from the KOTO experiment at J-PARC / NI Andrey, KIM Eun Joo, AHN Jung Keun¹, LIM Gei Youb², KO Jae Woo³, WOO Jong Kwan³(Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Korea. ¹Department of Physics, Korea University, Seoul, Korea. ²Institute of Particle and Nuclear Study (IPNS), KEK, Tsukuba, Ibaraki 305-0801, Japan. ³Department of Physics, Jeju National University, Jeju 690-756, Korea.)

BG-46 [12:30-12:45]

Silicon Vertex Detector Upgrade for Belle II Experiment / KANG Kookhyun, PARK Hwanbae(Kyungpook National University.)

2014년 10월 22일(수) 원자핵물리학과회 구두 발표

[CG1] 원자핵물리학과회 General Session: Hadron Physics I

2014년 10월 22일 수요일 13:00 – 14:45

장소: 203/204호

좌장: 남 승 일 부경대

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

Electric form factor of the triton in pionless effective field theory re-examined / ANDO Shung-Ichi, BIRSE Michael¹(Sunmoon University, Department of Information Diaplay. ¹University of Manchester, School of Physics and Astronomy.)

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

ϕ meson(1020) and $\Lambda(1520)$ resonance contribution in $\gamma p \rightarrow K^+ K^- p$ scattering process / 류휘영, 김현철(한국과학기술정보연구원, ¹인하대학교.)

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

Additively separable NN potentials in effective field theory / PARK Tae-Sun(Department of Physics, Sungkyunkwan University.)

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

A Model Study on the Production of Xi in the Kbar-N Reactions / 오용석, JACKSON B. C.¹, NAKAYAMA K.¹, HABERZETTL H.²(경북대학교, ¹Univ. of Georgia, ²George Washington Univ.)

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

Heavy-light Quark System from the Instanton Model of QCD / KIM HYUN-CHUL, TURIMOV BOBUR, MUSAKHANOV MIRZAYUSUF¹(Inha University, ¹National University of Uzbekistan.)

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

Transverse charge densities of the nucleon in nuclear matter / 김현철, 정주현, YAKHSHIEV Ulugbek(인하대학교.)

CG-07 [14:30-14:45]

Nuclear Symmetry Energy in QCD degree of freedom / 정기상, 이수형(연세대학교 물리학과.)

[CG2] 원자핵물리학과회 General Session: Hadron Physics II

2014년 10월 22일 수요일 15:00 - 16:45

장소: 203/204호

좌장: 유 병 길 한국항공대

CG-08 [15:00-15:15]

Unpolarized Dihadron Fragmentation Functions in Nonlocal Chiral Quark Model / NAM Seung-il, YANG Dong-Jing¹, JIANG Fu-jiun¹, LI Chian-De¹, KAO Chung-Wen¹(Pukyong National University, Korea. ¹National Taiwan Normal University, Taiwan.)

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

Photoproduction of the scalar mesons $f_0(980)$ and $f_0(500)$ / 김현철, 이제희, 류휘영¹, 유병길²(인하대학교, ¹한국과학기술정보연구원, ²한국항공대학교.)

CG-10 [15:30-15:45]

Variational method for heavy tetraquarks / LEE SU HOUNG, PARK AARON, PARK WOOSUNG(연세대학교 물리학과.)

CG-11 [15:45-16:00]

Effects of $N^*(2000)$, $N^*(2060)$, $N^*(2120)$, and $N^*(2190)$ on $K^*\Lambda$ photoproduction / KIM Sangho, HOSAKA Atsushi, KIM Hyun-Chul¹(RCNP, Osaka University. ¹Inha University.)

CG-12* [16:00-16:15]

Transverse Transition Densities of the Kaon from the Instanton Vacuum / 김현철, 손현동, 남승일¹(인하대학교, ¹부경대학교.)

CG-13 [16:15-16:30]

$\Lambda(1405)$ photoproduction with its two-pole structure / JO Hyun-kyu, NAM Seung-il(부경대학교 물리학과.)

CG-14 [16:30-16:45]

A new way of blast-wave model analysis of hadron data by ALICE / CHOI Suk, LEE Kang Seog¹(IBS. ¹Chonnam National University.)

[CG3] 원자핵물리학분과회 General Session: RAON Physics

2014년 10월 23일 목요일 09:15 – 10:45

장소: 203/204호

좌장: 문 동 호 전남대

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

VISKIN: a Visualized Kinematics Calculation Code for Transfer Reaction Studies / LEE Eunji, CHAE K.Y., BARDAYAN D.W.¹, GRAVES S.²(SungKyunKwan University. ¹University of Notre Dame. ²Tennessee Technological University.)

CG-16* [09:30-09:45]

Simulation and design of the low-energy LAMPS system at RAON / 박재범, 홍병식, 안정근, 이경세, 김영진¹, 신태수¹, 김준이², 김은주²(고려대학교, ¹IBS, ²전북대학교.)

CG-17 [09:45-10:00]

Production of Neutron-rich Beam using Quasi-Projectile Fragmentation for KOBRA / CHAE Hyunwoo, SOULIOTIS Georgios¹, TSHOO Kyoungho², KWON Youngkwan², MOON Junyoung², PARK Junesic², HASHIMOTO Takashi², KOMATSUBARA Tetsuro², LEE Kwangbok², KIM Yong-kyun²(Department of Physics & Astronomy, Seoul National University. ¹Department of Chemistry, National and Kapodistrian University of Athens. ²Rare Isotope Science Project, Institute for Basic Science.)

CG-18 [10:00-10:15]

Pre-study for gamma ray tracking using segmented HPGe detector / 한주봉, 이경범, 이종만, 박태순, 오피제, 이상한(과학기술연합대학원 대학교, 방사선 계측및 방사선 안전.)

CG-19* [10:15-10:30]

행렬 역학을 이용한 Yukawa potential의 고유 에너지 계산 / 윤진희, 조 소연(인하대학교 물리학과.)

CG-20* [10:30-10:45]

Performance of the prototype neutron detector for low-energy LAMPS at RAON / 유재희, 이경세, 홍병식, 안정근, 김범곤, 박재범(고려대학교 물리학과 핵물리연구실.)

[CG4] 원자핵물리학회 General Session: Current Status of RAON

2014년 10월 23일 목요일 11:00 – 12:35

장소: 203/204호

좌장: 홍 병 식 고려대

CG-21 [11:00-11:20]

Status of the RAON Heavy Ion Accelerator Facility / JEON Dong-O(Institute for Basic Science.)

CG-22 [11:20-11:35]

Injector system for the RAON superconducting linac / HONG In Seok(Institute for Basic Science, RISP.)

CG-23 [11:35-11:50]

Superconducting Linac for the Rare Isotope Science Project / 김형진(기초과학연구원.)

CG-24 [11:50-12:05]

Current Status of Cyclotrons for Nuclear Physics in Korea / 김재홍, 홍성광, 김종원(기초과학연구원.)

CG-25 [12:05-12:20]

Development of the delay-line PPAC as an Heavy Ion Beam Monitor for the KOBRA Spectrometer / 이광복, 김용균, 권영관, 문준영, 김용학, 김다희¹(Institute for Basic Science. ¹Institute for Basic Science/이화여자대학교.)

CG-26 [12:20-12:35]

Prototype of High-speed Counter System for beta-NMR Spectrometer / LEE Ju Hahn, CHOI Kwang Yong¹, SUH Byoung Jin², JANG Zecheon³, KIM Gi Dong, KIM Yong Kyun(Institute for Basic Science. ¹Department of Physics, Chung-Ang University. ²Department of Physics, The Catholic University of Korea. ³Department of Physics, Kookmin University.)

[CP1] 원자핵물리학회 Pioneering Session I:

희귀핵의 구조 및 핵반응

2014년 10월 23일 목요일 14:00 – 15:50

장소: 203/204호

좌장: 한 인 식 이화여대

CP-01(초) [14:00-14:25]

Polarized RI beams and polarized targets with RISP for nuclear structure, reaction and astrophysics research / KIM Wooyoung(Kyungpook National University.)

CP-02(초) [14:25-14:55]

Exotic structure in light neutron-rich nuclei / ITAGAKI

Naoyuki(Yukawa Institute for Theoretical Physics, Kyoto University.)

CP-03(초) [14:55-15:20]

Transfer Reaction Studies on ^{24}Mg for Astrophysical Implications /

CHAE Kyungyuk(SungKyunKwan University.)

CP-04(초) [15:20-15:50]

Nuclear physics experiments at RCNP / AOI Nori(RCNP, Osaka

University.)

[CP2] 원자핵물리학회 Pioneer Session II:

희귀핵의 구조 및 핵반응

2014년 10월 23일 목요일 16:00 – 17:15

장소: 203/204호

좌장: 채 경 욱 성균관대

CP-05(초) [16:00-16:20]

Complete and incomplete fusion processes for reactions forming heavy and superheavy nuclei / KIM Kyungil, KIM Youngman, NASIROV

Avazbek¹, MANDAGLIO Giuseppe², GIARDINA Giorgio³(Rare Isotope Science Project, Institute for Basic Science, Daejeon 305-811, Republic of Korea. ¹BLTP, Joint Institute for Nuclear Research, Joliot-Curie 6, 141980 Dubna, Russia, Institute of Nuclear Physics, Ulugbek, 100214, Tashkent, Uzbekistan. ²University of Messina, Italy, INFN, Italy, Centro Siciliano di Fisica Nucleare e Struttura della Materia 95125 Catania, Italy. ³University of Messina, Italy, INFN, Italy.)

CP-06(초) [16:20-16:50]

Exotic Nuclei and Nuclear Astrophysics at RIBF / NISHIMURA

Shunji(RIKEN Nishina Center.)

CP-07(초) [16:50-17:15]

Low energy nuclear physics at KOBRA / KWON Young Kwan(Rare

Isotope Science Project (RISP), Institute for Basic Science (IBS).)

원자핵물리학회 분과총회

2014년 10월 23일 목요일 17:15 – 18:00

장소: 203/204호

[CG5] 원자핵물리학분과회 General Session: Nuclear Instrumentations

2014년 10월 24일 금요일 09:15 - 10:45

장소: 203/204호

좌장: 권영관 IBS

CG-27 [09:15-09:30]

Time-Of-Flight 방법을 이용한 U-238에 대한 중성자 포획 측정 / 김형일, 김귀년¹, SCHILLEBEECKX Peter², 이영욱³(한국원자력연구원 원자력데이터개발검증센터; 경북대학교 물리학과. ¹경북대학교 물리학과. ²EC-JRC-IRMM. ³한국원자력연구원 원자력데이터개발검증센터.)

CG-28 [09:30-09:45]

Measurements of fast neutron-induced cross sections by using KIRAMS MC-50 Cyclotron / SHIN JaeWon, KIM DoYoon¹, BAK SangIn¹, IN EunJin¹, HAM ChulMin¹, MIN KyungJoo¹, ZHOU YuJie¹, PARK TaeSun, BHORASKAR V.N.², HONG SeungWoo(Department of Physics, Sungkyunkwan University. ¹Department of Energy Science, Sungkyunkwan University. ²Department of Physics, Pune University.)

CG-29 [09:45-10:00]

방사화 방법을 이용한 양성자 빔에 대한 Y의 생성단면적 측정 / 양성철, 송태영, 이영욱, 김광수¹, 김귀년¹, 정명환², 김계령²(한국원자력연구원, 원자력데이터개발검증센터. ¹경북대학교, 물리학과. ²한국원자력연구원, 양성자가속기연구센터.)

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

Development of Beam Trigger Counter and Forward Aerogel Cherenkov Detector / 김민호, 김신형, 안정근, 홍병식, 황상훈¹, K. Imai¹, H. Sako¹, S. Hasegawa¹(고려대, ¹JAEA.)

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

Intrinsic Time Resolution of the Time-of-Flight System for the Double-Strangeness Experiments at J-PARC / 김신형, 김민호, 안정근, 홍병식, 황상훈¹, IMAI K.¹, SAKO H.¹, HASEGAWA S.¹(고려대학교, ¹JAEA.)

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

ALICE-ITS Pixel Chip Characteristics Measurement with PNU's test-system / KIM Jiyoung, LIM Bong-Hwi, EUM Jongsik, CHOI KyungEon, YOO In-Kwon(Pusan National University, Department of Physics.)

[CG6] 원자핵물리학분과회 General Session: Relativistic Heavy Ion Physics

2014년 10월 24일 금요일 11:00 – 12:45

장소: 203/204호

좌장: 유 인 권 부산대

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

RHICf -- Measurements of Very Forward Particles at RHIC / TANIDA
Kiyoshi, PARK Junsang(서울대학교 물리천문학부.)

CG-34* [11:15-11:30]

Exclusive B meson Production in pPb collisions with CMS / 홍병식,
김현철, 고연주, 김용선, 이기수, 이송교, 조미희(고려대학교.)

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

Central productions at ALICE, LHC with $\sqrt{s} = 7$ TeV energy / 김
범규(연세대학교 물리학과.)

CG-36* [11:45-12:00]

PHENIX Local Polarimetry Analysis / 김민정(서울대학교 물리천문학부.)

CG-37* [12:00-12:15]

Measurement of Electrons from Beauty-Hadron Decays in p-Pb
Collision at $\sqrt{s_{\rm NN}} = 5.02$ TeV with ALICE at the LHC
/ KIM Minjung, YOON Jin-Hee, KWEON MinJung(Inha University.)

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

Particle-yield modication in jet-like azimuthal di-hadron
correlations in Pb-Pb collisions at 2.76 TeV with ALICE / KIM
MINWOO, KANG JU HWAN(연세대학교 물리학과.)

CG-39 [12:30-12:45]

고에너지 중이온 핵 반응에서 제트 입자와 관련된 제동복사 / 윤진희, 박가
영(인하대학교, 물리학과.)

2014년 10월 22일(수) 응집물질물리학분과회 구두 발표

[DG1] 응집물질물리학분과회 General Session: 강상관계

2014년 10월 22일 수요일 13:00 – 14:45

장소: 208호

좌장: 황 정 식 성균관대

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

Effects of Structural Distortion Induced by Sc-Substitution in LuFe_2O_4 / JEONG Jinwon, NOH Han-Jin, KIM Sung-Baek¹(Department of Physics, Chonnam National University. ¹Advancement for College Education Center, Konyang University.)

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

Observation of Excitonic Mode in Ta_2NiSe_5 / SEO Yu-Seong, EOM Man Jin¹, KIM Jun Sung¹, KANG Chang-Jong¹, MIN B. I.¹, HWANG Jungseek(Department of Physics, Sungkyunkwan University, Suwon, Gyeonggi-do 440-746, Republic of Korea. ¹Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Republic of Korea.)

DG-03 [13:30-13:45]

Angle-Resolved Photoemission Spectra in a Magnetic Polaron System / KIM Hyeong-Do(Institute for Basic Science, Center for Correlated Electron System.)

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

Dynamical Mean-Field Theory for a Doped Mott Insulator / LEE Hyun-Jung, PARK Kwon(KIAS, School of Physics.)

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

Epitaxial thin film growth of Ruddlesden-Popper $\text{La}_{n+1}\text{NiO}_{3n+1}$ series using reactive molecular-beam epitaxy / LEE June Hyuk, TUNG I-Cheng¹, CHANG Seo hyoung¹, HONG Hawoong¹, JOHN Freeland¹(Korea Atomic Energy Research Institute. ¹Argonne National Laboratory.)

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

Optical and spin-orbital excitations in the edge-shared iridate: Na_2IrO_3 / KIM Beom Hyun, KHALIULLIN G.¹, MIN B. I.(Department of physics, POSTECH. ¹Max Planck Institute for Solid State Research.)

DG-07 [14:30-14:45]

Fermi level tuning and weak localization/weak antilocalization competition of bulk single crystalline $\text{Bi}_{2-x}\text{Sb}_x\text{Se}_2\text{Te}$ / 손원혁, 이종수 (경희대학교 응용물리학과.)

[DG2] 응집물질물리학분과회 General Session: 강상관계

2014년 10월 22일 수요일 15:00 – 16:45

장소: 208호

좌장: 김 기 석 포스텍

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

Development of a fully self-consistent DFT+DMFT method in nonorthogonal pseudo-atomic orbital basis / HAN Mancheon, 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.)

DG-10* [15:13-15:26]

Bond alternation-tuned magnetic phases in the breathing pyrochlore lattice LiACr_4O_8 (A=Ga, In) / CHOI K.-Y., DO S.-H., LEE W.-J., CHOI Y. S., JI S.¹, PARK S.-Y.¹, KIM S.J.², REYES A. P.³, KUHNS P. L.³, OZAROWSKI A.³ (Chung-Ang Univ., Dept. of Physics. ¹Max Planck POSTECH. ²Neutron Science Division, KAERI. ³NHMFL, FSU.)

DG-11* [15:26-15:39]

Oxygen-Vacancy-Migration-Induced Coulomb Gap Opening in Ca-doped BiFeO_3 Thin Films / LIM JI SOO, ATSUSHI Ikeda-Ohno¹, TAKUO OHKOCHI², MASATO Kotsugi³, TETSUYA Nakamura², JAN Seidel⁴, YANG Chan-Ho (Department of Physics, KAIST. ¹School of Civil and Environmental Engineering, The University of New South Wales. ²Japan Synchrotron Radiation Research Institute, SPring-8. ³CREST-JST, Kawaguchi, Saitama 332-0012, Japan. ⁴School of Materials Science and Engineering, The University of New South Wales.)

DG-12* [15:39-15:52]

Spin-orbit coupling tuned spin liquid in the 2D triangular antiferromagnets $\text{Ba}_3(\text{Ru}_{1-x}\text{Ir}_x)\text{Ti}_2\text{O}_9$ / CHOI K.-Y., LEE W.-J., LEE S.-H., DO S.-H., CHOI Y.-S., YOON S.-W.¹, LEE M.-S.², CHOI E.-S.², LEE J.-H.³, JANG Z.-H.⁴, SUH B.-J.¹ (Chung-Ang University, Dept. of Physics. ¹Catholic University of Korea, Dept. of Physics. ²FSU, NHMFL. ³RISP, IBS. ⁴Kookmin Univ., Dept. of Nano and Electronic Physics.)

DG-13* [15:52-16:05]

Investigation on Charge Transfer Effects in Rh-doped Sr_2IrO_4 using X-ray Absorption Spectroscopy / SOHN CHANG HEE(Center for Correlated Electron System, Institute for Basic Science.)

DG-14* [16:05-16:18]

The Role of Volatile IrO_2 in the fine Phase Control of $\text{Pr}_x\text{Ir}_y\text{O}_z$ Epitaxial Films / KIM Woojin, KORNETA O. B., KIM Minu¹, CHAE Seung Chul², KANG Sung Jin³, SOHN Woonbae³, KIM Miyoung³, NOH Tae Won(Center for Correlated Electron Systems, Institute for Basic Science, Republic of Korea. ¹Department of Physics and Astronomy, Seoul National University, Republic of Korea. ²Department of Physics, Gachon University, Republic of Korea. ³Department of Materials Science and Engineering, Seoul National University, Republic of Korea.)

DG-15* [16:18-16:31]

Temperature Dependent Interplay of Dzyaloshinskii-Moriya Interaction and Single-Ion Anisotropy in Multiferroic BiFe / JEONG Jaehong, BOURGES Philippe¹, PETIT Sylvain¹, FURUKAWA Shunsuke², LE Manh Duc³, KIM Shin-Ae⁴, LEE Seongsu⁴, CHEONG Sang-Wook⁵, PARK Je-Geun(IFS-CCES & Dept. of Physics and Astronomy, Seoul National University. ¹Laboratoire Leon Brillouin, CEA-CNRS. ²Dept. of Physics, The University of Tokyo. ³IFS-CCES, Seoul National University. ⁴Neutron Science Division, KAERI. ⁵Dept. of Physics and Astronomy, Rutgers University.)

DG-16* [16:31-16:44]

Lattice and Electronic Structure of BaBiO_3 Epitaxial Thin Films Approaching the Two-Dimensional Limit / KIM Gideok, NEUMANN Michael, KIM Minu, CHAE Seung Chul¹, NOH Tae Won(Center for Correlated Electron Systems, Institute for Basic Science, Seoul National University, Seoul 151-747, Korea. ¹Department of Physics, Gachon University, Republic of Korea.)

응집물질물리학과 학회 운영위원회

2014년 10월 22일 수요일 12:30 - 13:00

장소: 209호

[DG3] 응집물질물리학과 학회 General Session: 나노-중시계

2014년 10월 22일 수요일 13:00 - 14:45

장소: 209/210호

좌장: 정 윤 철 부산대

DG-17(초) [13:00-13:30]

Probing Energy Band Alignment at Buried Interfaces with Ballistic Carrier Transport Spectroscopy / JUNG Sungchul, YOON Hoon Hahn, CHOI Gahyun, PARK Kibog¹(Department of Physics, Ulsan National Institute of Science and Technology (UNIST). ¹Department of Physics and School of Electrical and Computer Engineering, Ulsan National Institute of Science and Technology

(UNIST.)

DG-18 [13:30-13:45]

Defect Structures of Hexagonal Boron Nitride Sheet: Density Functional Theory Calculations and Molecular Dynamic Simulations / RYOU Junga, PARK Jinwoo, HONG Suklyun(Graphene Research Institute and Department of Physics, Sejong University.)

DG-19 [13:45-14:00]

Exchange-correlations, Plasmon-phonon Coupling, and Dominant Source of Scattering in Multilayer Graphene / 민홍기(서울대학교 물리천문학부.)

DG-20 [14:00-14:15]

A novel exfoliated Van-der-Waals crystal: Raman spectroscopic characterization of monolayer and few-layer NiPS / NEUMANN Michael, KUO Cheng Tai, BALAMURUGAN Karuppannan, PARK Je-Geun, NOH Tae Won(Center for Correlated Electron Systems, Institute for Basic Science, Seoul National University, Seoul 151-747, Korea.)

DG-21 [14:15-14:30]

Observation of Nuclear Spin-Lattice Relaxation Time T_1 of Thin Films by Magnetic Resonance Force Microscopy / 손승보, 원순호¹, 권성민, 이순철(KAIST, ¹KIMS.)

DG-22 [14:30-14:45]

Band Gap Modulation of MoS_2 by Local Strain / SHIN Bong Gyu, HAN Kanghee, BOO Dae Hwan¹, SONG Young Jae¹, LEE Young Hee(Center for Integrated Nanostructure Physics, Institute for Basic Science (IBS), Sungkyunkwan University. ¹SKKU Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University (SKKU).)

[DF1] 응집물질물리학분과회 Focus Session: 나노-중시계,
"Electron quantum optics"

2014년 10월 22일 수요일 15:00 – 16:45

장소: 209/210호

좌장: 김 남 표준원

DF-01(초) [15:00-15:30]

Introduction to quantum electron optics in mesoscopic system / 정윤철(부산대 물리학과.)

DF-02(초) [15:30-16:00]

Quantum Exchange Statistics Effects in Anyon Quantum Optics / 심흥선(KAIST, 물리학과.)

DF-03(초) [16:00-16:30]

On the interference of a single charge from independent sources
/ 강기천(전남대 물리학과.)

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

Electron Transport and Dynamics in Nano-Electromechanical Shuttles / 박희철, 안강현(한국고등과학원, '충남대학교 물리학과.)

[DT1] 응집물질물리학과회 Tutorial:
전자구조의 기본 이론: "밴드구조 이렇게 보자"

2014년 10월 22일 수요일 18:00 - 19:45

장소: 209/210호

좌장: 유재준 서울대

DT-01 [18:00-19:45]

전자구조의 기본 이론: "밴드구조 이렇게 보자" / SHIM Ji Hoon(POSTECH, Chemistry, Physics & Division of Advanced Nuclear Materials.)

[DF2] 응집물질물리학과회 Focus Session: 측정/계기/시설,
"극한측정: 고자기장 활용 연구"

2014년 10월 22일 수요일 13:00 - 14:45

장소: 211호

좌장: 조병기 GIST

DF-05(초) [13:00-13:26]

High magnetic field investigations of strongly correlated electronic systems: from superconductors to multiferroics to spin frustrated magnets / KIM Kee Hoon(CeNSCMR, Dept. of Physics and Astronomy, Seoul National University, Republic of Korea.)

DF-06(초) [13:26-13:52]

Magnetic phase diagram of the metallic triangular lattice antiferromagnet PdCrO₂ / KIM Jun Sung, OK Jong Mok, DIETTERLE M.¹(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.)

DF-07(초) [13:52-14:18]

Large anisotropic magnetoresistance in a strongly-correlated system / 조연정(경북대학교 물리학과.)

DF-08(초) [14:18-14:44]

Rotation experiments in a very high magnetic field / KANG W.(Dept. of Physics, Ewha Womans University.)

**[DF3] 응집물질물리학회 Focus Session: 측정/계기/시설,
"극한측정: 시간분해 X-선 연구"**

2014년 10월 22일 수요일 15:00 – 16:45

장소: 211호

좌장: 노도영 GIST

DF-09(초) [15:00-15:26]

In situ X-ray scattering of ferroelectric heterostructures / JO Ji Young, LEE Hyun Jun, LEE Sung Su, CHEN Pice¹, SICHEL Rebecca¹, NAKHMANSON Serge², LEE HoNyung³, DAWBER Matthew⁴, DUFRESNE Eric²(Gwangju Institute of Science and Technology. ¹University of Wisconsin-Madison. ²Argonne National Lab. ³Oak Ridge National Lab. ⁴Stony Brook University.)

DF-10(초) [15:26-15:52]

Ultrafast time-resolved imaging using femtosecond X-ray pulses of XFEL / SONG Changyong(RIKEN SPring-8 Center, 1-1-1 Kouto, Sayo, Hyogo 679-5148 Japan.)

DF-11(초) [15:52-16:18]

Laser plasma x-ray generation and applications / JANULEWICZ K. A., IQBAL M., IJAZ M., NOH D. Y.(Department of Physics and Photon Science, Gwangju Institute of Science and Technology, 123 Cheomdan-gwagiro, Buk-gu, Gwangju, 500-712 Rep. of Korea.)

DF-12(초) [16:18-16:44]

Watching atoms move with time-resolved x-ray scattering at synchrotrons / 이수형(한국표준과학연구원.)

[DG4] 응집물질물리학회 General Session: 유전체

2014년 10월 22일 수요일 13:00 – 14:45

장소: 214호

좌장: 송태권 창원대

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

Herringbone Twin Structure of Epitaxial Tungsten Trioxide Thin Films / YUN Shin Hee, WOO Chang-Su, LEE Jin Hong, KIM Kwang Eun, CHOI Si-Young¹, YANG Chan-Ho(KAIST, Department of Physics. ¹KIMS.)

DG-24* [13:13-13:26]

Lattice elongation induced by mechanical strain and vacancies of perovskite PbVO₃ (001) epitaxial thin films / OH Seol Hee, JIN Hye-Jin, SHIN Hae-Young, KANG Sung Jin¹, YOON Seokhyun, KIM Miyoung¹, AHN Jai-Seok², CHA Janghwan³, HONG Suklyun³, JO William(Department of Physics, Ewha Womans University, Seoul, Korea. ¹Department of Materials Science and Engineering, Seoul National University, Seoul, Korea. ²Department of Physics,

Pusan National University, Busan, Korea. ³Department of Physics and Graphene Research Institute, Sejong University, Seoul, Korea.)

DG-25* [13:26-13:39]

수직 정렬된 비납 (K, Na)NbO₃ 나노 로드의 압전 발전기 연구 / 강필구, 정종훈(인하대학교 물리학과.)

DG-26* [13:39-13:52]

Tensile-Strain-Driven Phase Separation and Electrical Controllability between the Rhombohedral-Like and Orthorhombic Bismuth Ferrite Phases / LEE Jin Hong, CHU Kanghyun, UNAL Ahmet A.¹, VALENCIA Sergio¹, KRONAST Florian¹, KOWARIK Stefan², SEIDEL Jan³, YANG Chan-Ho(Department of Physics, KAIST, Yuseong-gu, Daejeon 305-701, Republic of Korea. ¹Helmholtz Zentrum Berlin, Elektronenspeicherring BESSY II, Albert-Einstein-Strasse 15, D-12489 Berlin, Germany. ²Institut für Physik, Humboldt-Universität zu Berlin, Newtonstrasse 15, D-12489 Berlin, Germany. ³School of Materials Science and Engineering, University of New South Wales, Sydney, New South Wales 2052, Australia.)

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DG-27* [13:52-14:05]

Phase Field Simulation of the Dipole Charged Phase Boundaries in BiFeO₃ Thin Films / CHU Kanghyun, LEE Eui-Sup¹, SHIN Yoon Ah², JANG Byung-Kweon, SONG Kyung², KIM Yong-Hyun¹, OH Sang-Ho², YANG Chan-Ho(KAIST, Department of Physics. ¹KAIST, Graduate School of Nanoscience and Technology. ²POSTECH, Department of Materials Science Engineering.)

DG-28* [14:05-14:18]

Electric Properties of Transition metal-doped BiFeO₃-BaTiO₃ Bulk Ceramics System / 김다정, 이명환, 박진수, S. Kumar, 김명호, 송태권, 김상수¹, 김원정¹, 도달현², 이호용³(창원대학교 신소재융합공학과. ¹창원대학교 물리학과. ²계명대학교 신소재공학과. ³(주) 세라콤.)

DG-29* [14:18-14:31]

수열합성법으로 성장한 BiFeO₃ 박막/후막의 산소 결함 연구 / 이태권, 정종훈(인하대학교 물리학과.)

DG-30 [14:31-14:44]

SILICATE SOURCE, FOR AN EXOTIC PHOSPHOR MORPHOLOGY – A NEW PARADIGM TOWARDS LED DISPLAY SEGMENT / GANDHI Sakthivel, KWON Bong-Joon, WOO Hyun-Joo¹, JANG Kiwan¹(Changwon National University, Research Institute of Basic Sciences. ¹Changwon National University, Department of Physics.)

**[DF4] 응집물질물리학분과회 Focus Session: 유전체,
"산화물박막과 이종구조"**

2014년 10월 22일 수요일 15:00 – 16:45

장소: 214호

좌장: 이 상 한 GIST

DF-13(초) [15:00-15:30]

Non-volatile Functionalization of 2DEG Conductivity at Oxide Interfaces / 백승협(한국과학기술연구원.)

DF-14(초) [15:30-16:00]

Growth of Semiconducting Oxide Thin Film and its Electronic Structure Study / 장영준, 김혁진, 주범수, 김지훈¹, 박용섭¹, 한문섭, 박종혁²
(서울시립대학교 물리학과. ¹경희대학교 물리학과. ²ETRI.)

DF-15(초) [16:00-16:30]

Strain-mediated metal-insulator transition in oxide heterostructures / SON Junwoo(POSTECH.)

DF-16 [16:30-16:45]

Spectroscopic ellipsometry study on doped SrTiO₃ superlattice films / LEE Yunsang, SEO Yunkyoung, CHOI E.¹, SEO J. W.¹, LEE Jaichan¹
(Soongsil University, Department of Physics. ¹Sungkyunkwan University, School of Advanced Materials Science and Engineering.)

2014년 10월 23일(목) 응집물질물리학분과회 구두 발표

[DG5] 응집물질물리학분과회 General Session: 응집물질 계산과학

2014년 10월 23일 목요일 09:00 – 10:30

장소: 208호

좌장: 권 영 균 경희대

DG-31 [09:00-09:15]

Magnetic and optical properties of g-C₄N₃ nanotubes: A first-principles study / HU Tao, HASHMI Arqum, HONG jisang(부경대학교 물리학과.)

DG-32 [09:15-09:30]

Origin of Poor Cyclability in Li₂MnSiO₄ from First-Principles Calculations: Layer Exfoliation and Unstable Cycled Structure / 이호식, 박순동, 문장혁¹, 이훈경², 조경재¹, 조맹호¹, 김성엽³(UNIST 기계원자력공학부. ¹서울대 기계항공공학부. ²건국대 물리학과. ³UNIST 기계원자력공학부.)

DG-33 [09:30-09:45]

Metal-Gate Screening Effects on the Electron-Phonon Interactions

in 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, Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea. ¹Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea.)

DG-34 [09:45-10:00]

Strain-controllable magnetism in single-layer MoS₂ with vacancy defect / YUN Won Seok, LEE J. D.(Dept. of Emerging Materials Science, DGIST.)

DG-35 [10:00-10:15]

Strain-induced Giant second-harmonic generation of molybdenum dichalcogenides, 2H-MX₂ (X=S,Se,Te) / RHIM Sonny H, FREEMAN A. J.¹(University of Ulsan and Northwestern University. ¹Northwestern University.)

DG-36 [10:15-10:30]

Two-Dimensional MoS₂-Based Field-Effect-Transistors (FETs) with Graphene and Ohmic Metal Source-Drain Contacts / BAIK Seung Su, IM Seongil¹, CHOI Hyoung Joon(Center for Computational Studies of Advanced Electronic Material Properties, Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea. ¹Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea.)

[DG6] 응집물질물리학분과회 General Session: 응집물질 계산과학

2014년 10월 23일 목요일 11:00 – 12:30

장소: 208호

좌장: 이재동 DGIST

DG-37* [11:00-11:15]

The Effects of C and F Impurities on the Schottky Barrier Height at TiN/HfO₂ Interface / KIM Geun-myeong, OH Young Jun, CHANG Kee Joo(KAIST, 물리학과.)

DG-38* [11:15-11:30]

Vacancy Point defects in Black Phosphorene and its impact on the electronic structure and transport properties / FAROOQ Muhammad Umar, HONG Jisang(부경대학교 물리학과.)

DG-39* [11:30-11:45]

Density Functional Theory and Tight-binding Study of Hydrogen Adsorbed on Graphynes / LEE hunpyo, KOO Jahyun¹, CAPONE Massimo², KWON Youngkyung³, LEE Hoonkyung³(Kangwon Univ. Education. ¹Konkuk Univ. ²CNR-IOM-Democritos National Simulation Centre and International School. ³Konkuk Univ. School of Physics.)

DG-40* [11:45-12:00]

Hybrid functional calculations for the capture process of electrons by oxygen interstitial defects in amorphous In-Ga-Zn-O semiconductors / HAN WooHyun, OH YoungJun, CHANG KeeJoo(Korea Advanced Institute of Science and Technology, Department of Physics.)

DG-41* [12:00-12:15]

Thermal and Thermoelectric Properties of Molybdenum Disulfide: Ab Initio Electronic Structures and Boltzmann Transports / KIM Yong-Sung, PARK Minkyu(UST-KRISS, 나노계측과학.)

DG-42* [12:15-12:30]

First-Principle Study on Interplay between Structural and Electronic Properties of CNTs / LEE Yongju, LEE Hayoung, KIM Cheol-woon, PARK Je-june, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University.)

[DF5] 응집물질물리학분과회 Focus Session: 응집물질 계산과학,
"제일원리계산을 이용한 자성 연구"

2014년 10월 23일 목요일 14:00 – 15:30

장소: 208호

좌장: 정 석 민 전북대

DF-17(초) [14:00-14:30]

Magnetic anisotropy of impurity doped FeCo alloy / HONG jisang, IMRAN Khan(부경대학교 물리학과.)

DF-18(초) [14:30-15:00]

Giant Rashba-Type Spin Splitting in Bilayer Bi-MoS₂ Heterostructure / 이재동, 이규환, 윤원석(신물질과학전공, DGIST.)

DF-19(초) [15:00-15:30]

First-principles approach for materials with strong magnetic fluctuations / CHOI Hyoun Joon(Department of Physics, Yonsei University.)

[DP1] 응집물질물리학분과회 Pioneering Symposium: 초전도체,
"초전도 연구의 최근 동향"

2014년 10월 23일 목요일 16:00 – 17:30

장소: 208호

좌장: 이 진 환 KAIST

DP-01(초) [16:00-16:30]

Superconductivity of metal-doped hydrocarbons / KAMBE Takashi(Department of Physics, Okayama University.)

DP-02(초) [16:30-17:00]

Correlated electronic structures of polycyclic aromatic hydrocarbon superconductors / JI HOON Shim(POSTECH, Chemistry & Division of Advanced Nuclear Engineering.)

DP-03(초) [17:00-17:30]

Iron based superconductor thin films and artificial superlattices / 이상한(광주과학기술원.)

[DP2] 응집물질물리학분과회 Pioneering Symposium: 강상관계,
"응집물질물리에서의 새로운 양자 물질 상태"

2014년 10월 23일 목요일 09:00 – 10:45

장소: 209/210호

좌장: 노 한 진 전남대

DP-04(초) [09:00-09:35]

How to enhance magnetoelectric coupling in spin-driven ferroelectrics / KIMURA Tsuyoshi(Osaka University, Division of Materials Physics.)

DP-05(초) [09:35-10:10]

Spin-orbital Entangled Jeff States in 4d and 5d Lacunar Spinel Compounds / JIN Hosub, KIM Heung-Sik¹, IM Jino², HAN Myung Joon¹(Seoul National University, Department of Physics and Astronomy, CCES-IBS. ¹KAIST, Department of Physics. ²Northwestern University, Department of Physics and Astronomy.)

DP-06(초) [10:10-10:45]

Exotic phases and phase transitions in spin-orbit coupled correlated electron systems / MOON Eun-Gook(Kadanoff Center for Theoretical Physics, University of Chicago.)

[DP3] 응집물질물리학분과회 Pioneering Symposium: 강상관계,
"응집물질물리에서의 새로운 양자 물질 상태"

2014년 10월 23일 목요일 11:00 – 12:45

장소: 209/210호

좌장: 전 건 상 이화여대

DP-07(초) [11:00-11:35]

Giant Magnetic Fluctuations at the Critical Endpoint in Insulating HoMnO₃ / CHOI Young Jai(Yonsei University.)

DP-08(초) [11:35-12:10]

Manifestation of magnetic quantum fluctuations in the dielectric properties of a multiferroic / KIM Kee Hoon(CeNSCMR, Department of Physics & Astronomy, Seoul National University.)

DP-09(초) [12:10-12:45]

Topological Fermi-liquid theory: What's new beyond Landau's Fermi-liquid theory? / 김기석, 조용수(POSTECH, Department of Physics.)

[DF6] 응집물질물리학분과회 Focus Session: 나노-중시계,
"그래핀과 위상부도체"

2014년 10월 23일 목요일 14:00 – 15:45

장소: 209/210호

좌장: 이 후 종 포스텍

DF-20(초) [14:00-14:30]

Large-area CVD Growth of Multilayer/Bilayer Graphene / 송영재(성균관대학교, 성균나노과학기술원/물리학과.)

DF-21(초) [14:30-15:00]

Aharonov-Bohm Oscillations in a Quasi-Ballistic 3D Topological-Insulator Nanowire / CHO Sungjae, DELLABETTA Brian¹, YANG Alina², GU Genda², GILBERT Matthew¹, NADYA Mason³(KAIST, Physics. ¹UIUC, EE. ²BNL, CMPMSD. ³UIUC, Physics.)

DF-22(초) [15:00-15:30]

Investigation of Defects in Graphene with Transmission Electron Microscopy / KIM Kwanpyo(Ulsan National Institute of Science and Technology (UNIST).)

DF-23 [15:30-15:45]

Direct Determination of the 2D Band Topology via the Zak Shift of the Wannier-Stark Ladder / 이우람, 박권(고등과학원.)

[DF7] 응집물질물리학분과회 Focus Session: 나노-중시계,
"그래핀과 위상부도체"

2014년 10월 23일 목요일 16:00 – 17:15

장소: 209/210호

좌장: 조 성 재 KAIST

DF-24 [16:00-16:15]

Edge Transport of the Two Dimensional Topological Insulator with Cornered Boundaries and Defects / DOH Hyeonjin, CHOI Hyoung Joon(Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University.)

DF-25 [16:15-16:30]

Spin-filtering and Rectifying Behaviors in Quantum spin-Hall Bilayer Nanoribbons / 진경환, 지승훈(포항공대, 물리학과.)

DF-26 [16:30-16:45]

Terahertz spectroscopy of ultrathin films of topological insulator Bi_2Se_3 : Single conductance quantum and topological phase transitions / PARK Byung Cheol, KIM Tae-Hyeon, KANG Boyoun¹, KIM Jeong Won², CHO Beongki¹, JEONG Kwang-Ho, CHO Mann-Ho, KIM Jae Hoon(Department of Physics, Yonsei University, Seoul 120-749, Republic of Korea. ¹School of Materials Science and Engineering, Gwangju Institute of Science and. ²Division of Industrial Metrology, Korea Research Institute of Standards and Science.)

DF-27 [16:45-17:00]

Elastic Properties of Layered Two-dimensional Materials, Graphene, h-BN and MoS₂ / 우성종, 손영우(고등과학원.)

DF-28 [17:00-17:15]

First-principles Study of Magnetic Phase Transition in Fe-doped Bi_2Se_3 / 김정우, 지승훈(Pohang University of Science and Technology.)

응집물질물리학분과회 총회

2014년 10월 23일 목요일 17:30 – 18:00

장소: 209호

[DF8] 응집물질물리학분과회 Focus Session: 바이오/무연물질/유기물, "생물물리 연구의 최근 동향"

2014년 10월 23일 목요일 09:00 – 10:45

장소: 211호

좌장: 홍 성 철 서울대

DF-29(초) [09:00-09:26]

Emergence of toxicity-prone protofilaments of Ab17-42 peptides along the kinetic pathway from disordered oligomers to amyloid fibril / 장익(Department of New Biology Daegu Gyeongbuk Institute of Science and Technology.)

DF-30(초) [09:26-09:52]

Physical and Biological Applications of Self-assembled DNA Nanostructures / 박성하(Department of Physics and Sungkyunkwan Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University.)

DF-31(초) [09:52-10:18]

Real-time Three-dimensional Nanometer-Accuracy Tracking of Single Synaptic Vesicles in Live Hippocampal Neurons / 박효근(Department of Physics and Division of Life Science Hong Kong University of Science and Technology.)

DF-32(초) [10:18-10:44]

Optical measurements of biomechanical properties of human red blood cells / 박용근(Department of Physics, KAIST.)

[DF9] 응집물질물리학분과회 Focus Session: 바이오/무른물질/유기물,
"생물물리 연구의 최근 동향"

2014년 10월 23일 목요일 11:00 – 12:45

장소: 211호

좌장: 홍 성 철 서울대

DF-33(초) [11:00-11:23]

Imaging Single Endogenous mRNA in Live Neurons and Brain Tissues / 박혜윤(서울대학교.)

DF-34(초) [11:23-11:46]

Biophysical Details in Chromosome Maintenance Revealed by Single-Molecule DNA Curtain Technique / 이자일(Columbia University.)

DF-35(초) [11:46-12:09]

Application of single-molecule FRET to the understanding of membrane proteins in neurotransmission / 이상화(Advanced Photonics Research Institute, Gwangju Institute of Science and Technology.)

DF-36(초) [12:09-12:32]

Single-molecule Drug Delivery Control through Lipid Membranes Using Protein-nanopore Needles Self-assembled on a Tip / HYUN CHANGBAE, YUN JEONGHUN¹, YOUN ILSEUNG¹, LI JIALI², KIM KWANG S.³(Ulsan National Institute of Science and Technology, School of Natural Science. ¹POSTECH, Department of Chemistry. ²University of Arkansas, Department of Physics. ³Ulsan National Institute of Science and Technology, School of Natural Science.)

DF-37 [12:32-12:45]

Development of Superresolution Fluorescence Microscopes Working at the Tissue-Level / KWON Yeong-Dae, PARK Sangjun, HOHNG Sungchul(Seoul National University, Physics Department.)

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

Ab initio Study and Molecular Dynamics Simulations for Hybridization of Carbon nanotubes with bacterial cellulose / SUNG Dongchul, MIN Kyung-Ah, PARK Subeom¹, HONG Byung Hee¹, HONG Suklyun(Sejong University, Graphene Research Institute. ¹Seoul National University, Department of Chemistry.)

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DG-44* [14:15-14:30]

Halide Anions Adsorption on Cationic Lipid Monolayer Investigated by X-ray and Nonlinear Optical Spectroscopy / SUNG Woongmo, WANG Wenjie¹, LEE Jonggwan, VAKNIN David¹, KIM Doseok(Sogang University, Department of Physics. ¹Iowa State University, Department of Physics.)

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

Ionic liquid Mixtures Having Different Anions Studied by IR and NMR Spectroscopy / SEONCHEOL Cha, KIM Doseok(Department of Physics, Sogang University.)

DG-46* [14:45-15:00]

Particle interaction of weak homeotropic anchoring to the external electric field in the nematic liquid crystal colloid / KIM Sung-Jo, KIM Jong-Hyun(The department of physics, Chungnam National University.)

DG-47* [15:00-15:15]

Static/dynamic wetting on soft substrates studied by x-ray imaging / 제정호, 박수지(포항공과대학교 신소재공학과.)

DG-48* [15:15-15:30]

Two-dimensional Correlation Analysis on the Sum-frequency Vibrational Spectra of Langmuir Monolayer / LEE Jonggwan, SUNG Woongmo, KIM Doseok(Sogang University, Department of Physics.)

DG-49* [15:30-15:45]

Single molecule study of Z-DNA binding proteins / HONG Seok-Cheol, LEE Joon-Hwa¹, LEE Nam-Kyung², LEE Ae-Ree¹, KIM Sook Ho(Department of Physics, Korea University. ¹Department of Chemistry and RINS, Gyeongsang National University. ²Department of Physics, Sejong University.)

DG-50 [16:00-16:13]

Folding of a Single Membrane Protein under Native Membrane

/ MIN Duyoung, JEFFERSON Robert¹, BOWIE James¹, YOON Tae-Young (Department of Physics, KAIST. ¹Department of Chemistry and Biochemistry, UCLA.)

DG-51 [16:13-16:26]

Single-molecule Study on Proofreading of DNA Polymerase III /

PARK Jonghyun, JERGIC Slobodan¹, CHO Wonki, DIXON Nicholas E.¹, LEE Jong-Bong² (POSTECH, Department of Physics. ¹University of Wollongong, School of Chemistry. ²POSTECH, Department of Physics, School of Interdisciplinary Bioscience and Bioengineering.)

DG-52 [16:26-16:39]

Single-molecule co-IP for Ras-Raf interaction / 유장현, 윤태영 (한국과학기술원, 물리학과.)

DG-53* [16:39-16:52]

Elasticity driven single stranded gap creation mechanism by exonuclease III / LEE Gwangrog, JEE Sangmi (광주과학기술원.)

DG-54* [16:52-17:05]

Development of ultrastable host-guest binding FRET pair for single vesicle content mixing assay /

BOKYOUNG Gong, BONG-KYU Choi¹, JAE-YEOL Kim², YOUNG HO Ko³, NARAYANAN Selvapalam³, NAM KI Lee⁴, KIMOON Kim⁵ (Center for Self-assembly and Complexity (CSC), Institute for Basic Science (IBS), Pohang, 790–784, Korea, Department of Chemistry, Pohang University of Science and Technology, Pohang, 790–784, Korea. ¹School of Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, Korea. ²Department of Physics, Pohang University of Science and Technology, Pohang, 790–784, Korea. ³Center for Self-assembly and Complexity (CSC), Institute for Basic Science (IBS), Pohang, 790–784, Korea. ⁴School of Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, Korea, Department of Physics, Pohang University of Science and Technology, Pohang, 790–784, Korea. ⁵Center for Self-assembly and Complexity (CSC), Institute for Basic Science (IBS), Pohang, 790–784, Korea, Division of Advanced Materials Science, Pohang University of Science and Technology, Pohang, 790-784, Korea.)

DG-55* [17:05-17:18]

Real-time Observation of the Propagation of RNA polymerase Noise to Protein Expression Level in Living Cells / 양소라, 김승현, 임

유림¹, 김철희, 안형전, 성재영¹, 이남기²(포스텍, 물리학과, ¹중앙대, 화학과, ²포스텍, 물리학과&시스템생명공학부.)

DG-56* [17:18-17:31]

Cooperative activity of SARS coronavirus nsP13 helicase characterized by single molecule FRET / IM hyeryeon, LEE gwangrog(광주과학기술원, 생명과학과.)

[DT2] 응집물질물리학과회 Tutorial: "단결정 성장과 응집물질 물리"

2014년 10월 23일 목요일 09:00 - 10:40

장소: 214호

좌장: 김 기 훈 서울대

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DT-02 [09:00-10:40]

단결정 성장과 응집물질 물리 / 허남정(인하대학교, 물리학과.)

[DF10] 응집물질물리학과회 Focus Session: 유전체,
"강유전체에서의 동역학"

2014년 10월 23일 목요일 11:00 - 12:45

장소: 214호

좌장: 송 태 권 창원대

DF-38(초) [11:00-11:30]

Manipulation of ferroelectric vortex domain in REMnO₃ / CHAE Seung Chul(Gachon University, Dept. of Nano-Physics.)

DF-39(초) [11:30-12:00]

Understanding Defects in Ferroelectrics and Their Application / 이 순일(한국세라믹기술원.)

DF-40(초) [12:00-12:30]

Frequency and temperature dependence of incipient piezoelectricity / JO Wook(Sustainable Functional Materials Lab, School of Materials Science and Engineering, Ulsan National Institute of Science and Technology, 689-798 Ulsan, Korea.)

DF-41 [12:30-12:45]

Role of impurities and hydrogen in high-k dielectrics / CHOI Minseok, LYONS John. L.¹, JANOTTI Anderson¹, VAN DE WALLE Chris G.¹(Korea Institute of Materials Science. ¹UC Santa Barbara.)

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

Control of multiferroic properties in MnWO₄ by Co and Ni doping / SONG Y.-S., CHUNG J.-H., CHUN S.-H.¹, SHIN K. W.¹, KIM K. H.¹, JÜRGE Scheffer², OH I. H.³(Korea Univ., Dep. of Physics. ¹Seoul National Univ., Dep. of Physics & Astronomy. ²Laboratory for Neutron Scattering, Paul Scherrer Institut(PSI), Switzerland. ³Neutron Science Division, KAERI, HANARO, Daejeon.)

DG-58 [14:45-15:00]

Structural, Magnetic and Electric Properties of Li_{2+x}RuO_{3+x} / TAN Teck-Yee, PARK Jung-Hwa, K Balamurugan, K Ramesh Kumar, CHOI Seongil, LEE Sang-Hyun, PEETS Darren C, PARK Je-Geun(Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 151-747, Republic of Korea.)

DG-59 [15:00-15:15]

Ba₃Co_{1.5}Zn_{0.4}Cu_{0.1}Fe₂₄O₄₁의 외스바우어 분광 연구 / 김현규, 방소연, 최현경, 김철성(국민대학교, 물리학과.)

DG-60 [15:15-15:30]

The Orbital Fluctuation and Orbital Ordering in a Spin-Orbital-Lattice Coupled 2p Electron Mott System KO₂ : A Dynamical Mean-Field Theory Study / 김민재, 민병일(포항공과대학교, 물리학과.)

DG-61 [15:30-15:45]

Spin Liquid In The Hyperkagome Compounds Na_{4-δ}Ir₃O₈ Investigated By ²³Na NMR And μ SR / YOON Sungwon, BAEK Seungho¹, LEE Wonjun², LORD James³, WATANABE Isao⁴, SINGH Yogesh⁵, CHOI KwangYong², SUH Byoung Jin(Department of Physics, The Catholic University of Korea, Bucheon, Korea. ¹IFW-Dresden, Institute for Solid State Research, PF 270116, 01171 Dresden, Germany. ²Department of Physics, Chung-Ang University, Seoul, Korea. ³ISIS Facility, STFC Rutherford Appleton Laboratory, Chilton, Oxfordshire OX11 0QX, United Kingdom. ⁴Advanced Meson Science Laboratory, RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan. ⁵Indian Institute of Science Education and Research (IISER) Mohali, Knowledge city, Sector 81, Mohali 140306, India.)

[DG10] 응집물질물리학과회 General Session: 자성체

2014년 10월 23일 목요일 16:00 – 17:15

장소: 214호

좌장: 유 천 열 인하대

DG-62* [16:00-16:15]

High-resolution Structure Studies and Magnetoelectric Coupling of Relaxor Multiferroic $\text{Pb}(\text{Fe}_{0.5}\text{Nb}_{0.5})\text{O}_3$ / SIM Hasung, PEETS Darren C.¹, LEE Sanghyun¹, LEE Seongsu², KAMIYAMA T.³, IKEDA K.³, OTOMO T.³, CHEONG S-W⁴, PARK Je-Geun(Department of Physics & Astronomy, Seoul National University, Seoul 151-747, Korea. ¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 151-747, Korea. ²Neutron Science Division, Korea Atomic Energy Research Institute, Daejeon 305-353, Korea. ³Institute of Materials Structure Science & J-PARC Center, KEK, Tsukuba 305-0801, Japan. ⁴Rutgers Center for Emergent Materials and Department of Physics and Astronomy.)

DG-63* [16:15-16:30]

Magnetic and electrical properties in magnetic multiferroics, $\text{TbMn}_{1.7}\text{Fe}_{0.3}\text{O}_5$ / CHO K., SEONG K., HUR N.¹, LEE S.², SCHEFER J.³, PARK S.(Department of Physics, Chung-Ang University, Seoul, Korea. ¹Department of Physics, Inha University, Incheon, Korea. ²Neutron Science Division, Korea Atomic Energy Research Institute, HANARO, Daejeon, Korea. ³Laboratory for Neutron Scattering, Paul Scherrer Institute, Villigen PSI, Switzerland.)

DG-64* [16:30-16:45]

이리듐(Ir)이 첨가된 페로브스카이트 루티네이트(Perovskite ruthenates) 박막의 편광 방사광 분광 연구 / 김대현, 이은숙, 김현우, 강정수, BISWAS A.¹, 정윤희¹, 이한구², 김재영²(가톨릭대학교 물리학과. ¹포항공과대학교 물리학과. ²포항 가속기연구소.)

DG-65* [16:45-17:00]

Investigation of the Stripe-Bubble Phase in $\text{La}_{2-2x}\text{Sr}_{1+2x}\text{Mn}_2\text{O}_7(x=0.32)$ by Magnetic Force Microscopy / JEONG Juyoung, YANG Jinho, KIM Yunwon¹, YANG Ilkyu², ZHOU J. S.³, GOODENOUGH John B.³, YEOM H. W., KIM Jeehoon(CALDES, Institute of Basic Science, Pohang, Korea, Department of Physics, POSTECH, Pohang, Korea. ¹CALDES, Institute of Basic Science, Pohang, Korea. ²Department of Physics, POSTECH, Pohang, Korea. ³Material Science & Engineering, University of Texas at Austin, Texas, USA.)

DG-66* [17:00-17:15]

Interlayer exchange coupling between GaMnAs ferromagnetic layers / LEE HAKJOON, LEE SANGYEOP, CHOI SEONGHOON, BAC SEUL-KI, LEE SANGHOON, LIU X.¹, FURDYNA J. K.¹(Korea University. ¹Notredame university.)

**[DP4] 응집물질물리학분과회 Pioneering Symposium: 초전도체,
"초전도 연구의 최근 동향"**

2014년 10월 24일 금요일 09:00 - 10:45

장소: 208호

좌장: 김 준 성 포스텍

DP-10(초) [09:00-09:35]

**Non-empirical study of unconventional superconductivity in A_3C_{60} :
role of electron-phonon coupling and electronic correlations /**
ARITA Ryotaro(RIKEN Center for Emergent Materials & ERATO Isobe Degenerate
pi-Integration Project, Tohoku University.)

DP-11(초) [09:35-10:10]

**Role of bonding angle and orbital mixing in iron pnictide
superconductivity: comparative electronic structure studies of
LiFeAs and Sr₂VO₃FeAs /** KIM Changyoung, KYOUNG Wonsik, HAN
Garam, SEO Jeongjin, KHO Yoonyoung, CHO Soohyun, KIM Bumseo, KWON
Junyoung, JUNG Jongkeun(Yonsei University, Physics department.)

DP-12(초) [10:10-10:45]

**Fe-based superconductors and CDW materials investigated with
medium magnetic field variable temperature scanning tunneling
microscopy /** LEE Jinhwan, CHOI Seokhwan, CHOI Hyunwoo, JUNG Jin
Oh, SON Donghyun(KAIST, Department of Physics.)

[DG11] 응집물질물리학분과회 General Session: 초전도

2014년 10월 24일 금요일 11:00 - 12:45

장소: 208호

좌장: 이 진 호 서울대

DG-67 [11:00-11:15]

**Fitting of Diverging Effective Mass Obtained by Quantum-
Oscillation Measurements in Underdoped YBCO_{6+x} Systems /**
(KIM) 현탁(Hyun-tak)(ETRI, MIT Center.)

DG-68 [11:15-11:30]

**Electronic structures of CaC₆ and inter-layer state driven
superconductivity /** 경원식, 김용관¹, 한가람, 임춘식, 김철, 고윤영, 김범영,
김영욱², 김준성², 김근수², 김창영(연세대학교, 물리학과. ¹Advanced Light Source.
²포항공과대학교, 물리학과.)

DG-69 [11:30-11:45]

**Upper Critical Field of the Noncentrosymmetric Superconductor
BiPd /** PEETS Darren, JO Hyein¹(IBS-CCES, SNU and MPI-FKF, Stuttgart. ¹IBS-

DG-70 [11:45-12:00]

Vortex states in Extended - s-wave superconductor by Simulated Annealing Method / CHUNG Hyunhee, KIM Namme¹, KIM Heesang¹(Soongsil University. ¹Department Physics, Soongsil University.)

DG-71* [12:00-12:15]

Scanning Josephson Tunneling Microscopy on Zinc Dopants on Bi₂Sr₂CaCu₂O_{8+δ} / JOO Sang Hyun, LEE Inhee¹, KIM Chung Ku¹, YOO Jung Hoon, PARK Min-Seok, LEE Gyoung Seok, KIM Jae-Joon, GU Genda¹, DAVIS J. C.², LEE Jinho(Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea. ¹CMPMS Department, Brookhaven National Laboratory, Upton, New York 11973, USA. ²LASSP, Department of Physics, Cornell University, Ithaca, New York 14853, USA.)

DG-72* [12:15-12:30]

Sr₂VO₃FeAs as a Natural Heterostructure of Magnetic SrVO₃ and Superconducting FeAs Layers / OK Jong Mok, EOM M. J., NA S. W., F. WOLFF-FABRIS¹, E. KAMPERT¹, JO Y. J.², CHOI E.S.³, O. Ayala-Valenzuela⁴, ROSS D. McDonald³, KIM J. H.⁴, SHIM J. H.⁵, C. Hoch⁶, R. K. Kremer⁶, KIM J. S.(Department of Physics, POSTECH. ¹Dresden High Magnetic Field Laboratory, Germany. ²Department of Physics, Kyungpook National University. ³National High Magnetic Field Laboratory, USA. ⁴IBS Center for Artificial Low Dimensional Electronic systems, POSTECH. ⁵Department of Chemistry, POSTECH. ⁶Max-Planck-Institut für Festkörperforschung, Germany.)

DG-73* [12:30-12:45]

Thermal and Transport properties of U₂Pt_{1-x}Ir_xC₂ / KANG Min Gu, RONNING Filip¹, BAUER Eric¹, KIM Jeehoon(CALDES, Institute of Basic Science, Pohang, Korea, Department of Physics, POSTECH, Pohang, Korea. ¹Los Alamos National Laboratory, Materials Physics and Applications Division, Los Alamos, New Mexico 87545, USA.)

[DG12] 응집물질물리학과회 General Session: 나노-중시계

2014년 10월 24일 금요일 09:00 - 10:45

장소: 209/210호

좌장: 도 용 주 고려대

DG-74(초) [09:00-09:30]

Identifying Kondo Cloud by Macroscopic Entanglement: Thermal Suppression and Spatial Extension / 이승섭, 박진홍, 심흥선(한국과학기술원 물리학과.)

DG-75 [09:30-09:45]

Dynamic polarization function and Exchange-correlation energy

of Multilayer Graphene / 장윤수, 민홍기(서울대학교 물리천문학부.)

DG-76 [09:45-10:00]

Zero-bias conductance peak in InAs nanowire contacted with superconducting electrodes / KIM Nam-Hee, KIM Hong-Seok, SHIN Yun-Sok, DOH Yong-Joo, SONG Jin-Dong¹(Korea University Sejong Campus, Department of Applied Physics. ¹Korea Institute of Science and Technology.)

DG-77* [10:00-10:15]

Detecting Fractional Statistics in Anyon Interferometry Employing Thermal Excitation / HAN Cheolhee, SIM Heung-sun(Department of Physics, Korea Advanced Institute of Science and Technology.)

DG-78* [10:15-10:30]

Manifestation of axion electrodynamics through magnetic ordering on edges of topological insulator / 이예리, 박희철¹, 김민성, 배재현, 황정운, 김동욱, 정종현, 손승욱, 문효원, 임지순, 손영우¹(서울대학교 물리천문학부. ¹Korea Institute for Advanced Study.)

DG-79* [10:30-10:45]

Deep-Ultraviolet-Light-Driven Reversible Characteristics Tuning of WS₂ Field-Effect Transistor / IQBAL M Waqas, IQBAL M Zahir, KHAN M Farooq, 엄종화¹(Sejong University, Department of Physics. ¹세종대학교, 물리학과.)

[DG13] 응집물질물리학분과회 General Session: 나노-중시계

2014년 10월 24일 금요일 11:00 – 13:00

장소: 209/210호

좌장: 심 흥 선 KAIST

DG-80* [11:00-11:15]

Modulation of tunneling characteristics in graphene-hexagonal boron nitride heterostructures / IQBAL M Zahir, KHAN M Farooq, IQBAL M Waqas, 엄종화¹(Sejong University, Department of Physics. ¹세종대학교, 물리학과.)

DG-81* [11:15-11:30]

Motion of Electron Wavepackets in a Quantum-dot Pump under a High Magnetic Field / RYU Sungguen, KATAOKA Masaya¹, SIM Heung-Sun(Department of Physics, Korea Advanced Institute of Science and Technology. ¹National Physical Laboratory, United Kingdom.)

DG-82* [11:30-11:45]

Nonlocal Exchange of Charge and Photon in Circuit Quantum Electrodynamics / 김영완, 강기천(전남대 물리학과.)

DG-83* [11:45-12:00]

Enhanced Deep-Ultraviolet-Light-Driven Photocurrent Response of MoS₂ Field-effect Transistor in N₂ Gas Environment / KHAN M Farooq, IQBAL M Waqas, IQBAL M Zahir, 엄종화¹(Sejong University, Department of Physics, '세종대학교, 물리학과.)

DG-84* [12:00-12:15]

Inelastic carrier lifetime in a coupled graphene electron-phonon system: Role of plasmon-phonon coupling / AHN Seongjin, HWANG Euyheon¹, MIN Hongki(Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University. ¹SKKU Advanced Institute of Nanotechnology and Department of Physics.)

DG-85* [12:15-12:30]

Computational Study on Structural Stability and Phase Transitions of Phase Change Materials / PARK Hanjin, KIM Cheol-Woon, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University, Seoul, Korea.)

DG-86* [12:30-12:45]

Freestanding Double-Sided Heterostructures of ZnO Nanorods/ Graphene/ZnO Nanorods and Its Energy Harvesting Performance / SHIN Dong-Myeong, TSEGE Ermias Libnedengel, KANG Seok Hee, SEUNG Wanchul, KIM Sang-Woo, KIM Hyung-Kook, HONG Suck Won, HWANG Yoon-Hwae(Pusan National University.)

DG-87 [12:45-13:00]

Frist-principles study of two-dimensional arsenic materials / 이상훈, 지승훈(Department of Physics, POSTECH.)

[DF11] 응집물질물리학과회 Focus Session: 표면/계면/나노물질

"Cutting-edge spectroscopies for nano and surface structures" 장소: 211호

2014년 10월 24일 금요일 09:00 - 10:45

좌장: 함웅돈 포스텍, IBS

DF-42(초) [09:00-09:30]

Spin-polarized Scanning Tunneling Spectroscopy of a Collinear-noncollinear Spin Interface at Co-Fe Nanoscale Contact / PHARK Soo-hyon, OUAZI Safia¹, FISCHER Jeison¹, SANDER Dirk¹, KIRSCHNER Jürgen¹(CCES, IBS, Seoul National University; Max-Planck-Institute of Microstructure Physics, Germany. ¹Max-Planck-Institute of Microstructure Physics, Germany.)

DF-43(초) [09:30-10:00]

Chiral Solitons in One-Dimensional Charge-Density Waves / KIM Tae-Hwan(POSTECH.)

DF-44(초) [10:00-10:30]

Light at the Nanotip - Optical Imaging of Single Molecules and Nanometric Chemical Identification / CHEN Chi(Academia Sinica, Research Center for Applied Physics.)

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

Observation of unbalanced standing wave patterns at a graphene p-n junction caused by chiral electron reflection / 장원준, 김호원, WANG Min¹, 장성규¹, 김민우¹, 이성주¹, 김상우¹, 송영재¹, 강세중(고려대학교, 물리학과. ¹성균관대학교, 물리학과.)

[DG14] 응집물질물리학분과회 General Session: 표면/계면/나노물질

2014년 10월 24일 금요일 11:00 - 12:45

장소: 211호

좌장: 김태환 포스텍

DG-88(초) [11:00-11:30]

Band gap opening and giant magnetoresistance by interband spin-orbit coupling in monoclinic MoTe₂ / YANG Heejun(Department of Energy Science, Sungkyunkwan University.)

DG-89 [11:30-11:45]

Charge Density Wave driven Multiple-Gap Structure in the Mott Insulator 1T-TaS₂ / CHO Doohee, JANG Bo-Gyu¹, SHIM Ji Hoon¹, CHEONG Sang-Wook², YEOM HanWoong(Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science (IBS), 77 Cheongam-Ro, Pohang 790-784, Korea. ¹Department of Chemistry, Pohang University of Science and Technology, 77 Cheongam-Ro, Pohang 790-784, Korea. ²Rutgers Center for Emergent Materials and Department of Physics and Astronomy, Rutgers University, Piscataway, New Jersey 08854, USA.)

DG-90 [11:45-12:00]

Complex stacking-dependent bandgap in symmetry-broken bilayer graphene / KIM Gunn, RYOU Junga, HONG Suklyun, PARK Changwon¹, YOON Mina¹, SUMPTER Bobby¹(Department of Physics, Sejong University. ¹Oak Ridge National Laboratory.)

DG-91 [12:00-12:15]

Observations of superlattice Dirac points in one-dimensionally-rippled graphene on BN using scanning tunneling spectroscopy / LEE Min-Uk, JANG Won-Jun, KIM Howon, WANG Min¹, JANG Sung Kyu¹, KIM Minwoo¹, SUNGJOO Lee¹, KIM Sang-Woo¹, SONG Young Jae¹, KAHNG Se-Jong(Department of Physics, Korea University. ¹SKKU Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University (SKKU).)

DG-92 [12:15-12:30]

Strain-Induced Manipulation of the Ground State in One-Dimensional Atomic Wires / 염한웅, 송인경, 정성원(기초과학연구원, 원자 제어 저차원 전자계 연구단(CALDES).)

DG-93 [12:30-12:45]

Thermoelectric properties of Cl-doped $\text{In}_4\text{Pb}_{0.01}\text{Sn}_{0.03}\text{Se}_{2.9}\text{Cl}_x$ polycrystalline compounds / KIM Jin hee, KIM Min Jae, OH Suekung, RHYEE Jong-Soo(Department of Applied Physics, Kyung Hee University.)

[DG15] 응집물질물리학회분과회 General Session: 표면/계면/나노물질

2014년 10월 24일 금요일 13:00 – 14:15

장소: 211호

좌장: 양 희 준 성균관대

DG-94 [13:00-13:15]

STM/STS Studies on Electronic Structures of Ultrathin Sb Films on $\text{Bi}_2\text{Te}_2\text{Se}$ / KIM Sung Hwan, JIN Kyung-Hwan¹, PARK Joonbum¹, KIM Jun Sung¹, JHI Seung-Hoon¹, KIM Tae-Hwan, YEOM Han Woong(Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science (IBS), 77 Cheongam-Ro, Pohang 790-784, Korea. ¹Department of Physic, Pohang University of Science and Technology, 77 Cheongam-Ro, Pohang 790-784, Korea.)

DG-95 [13:15-13:30]

Low dimensionality-induced orbital and lattice coupling in electron-doped SrTiO_3 / SEO Jiwon, CHOI EUIYOUNG¹, LEE Jaichan²(성균관 대학교, ¹성균관 대학교, 신소재 공학과. ²Department of 성균관 대학교, 신소재 공학과.)

DG-96* [13:30-13:45]

Coexistence of Topological Surface State and Two-dimensional Electron Gas on Bi_2Se_3 Thin Film / JEON Jeong Heum, KAHNG Se-Jong(Department of Physics, Korea University.)

DG-97* [13:45-14:00]

Control of the Structural Phase Transition in Monatomic Indium Wires on a Silicon Surface / KIM Sun-Woo, KIM Hyun-Jung, JIA Yu¹, ZENG Changgan², ZHANG Zhenyu², CHO Jun-Hyung(Department of Physics and Research Institute for Natural Sciences, Hanyang University. ¹Center for Clear Energy and Quantum Structures, and School of Physics and Engineering, Zhengzhou University. ²Hefei National Laboratory for Physical Sciences at the Microscale and Department of Physics.)

DG-98* [14:00-14:15]

Decoupled Structural and Electronic Distortions of Charge Ordered IrTe_2 / KIM Hyo Sung, KIM Tae-Hwan, JUNJIE Yang¹, 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. ²Rutgers Center for Emergent Materials and Department of Physics and Astronomy and Laboratory for Pohang Emergent Materials, POSTECH.)

**[EF3] 응집물질물리학분과회/응용물리학분과회 공동 Focus Session:
금속 강자성 박막에서의 DM 상호작용**

2014년 10월 24일 금요일 09:00 – 10:40

장소: 302/303호

좌장: 최 석 봉 서울대

EF-09(초) [09:00-09:25]

Dzyaloshinskii-Moriya Interaction and Spin-Orbit Torque / CHEON Su-Ik, KIM Kyoung-Whan, LEE Kyung-Jin¹, STILES Mark², LEE Hyun-Woo(Department of Physics, POSTECH. ¹Department of Materials Science and Engineering, Korea University. ²National Institute of Standards and Technology, Gaithersburg, Maryland, USA.)

EF-10(초) [09:25-09:50]

Magnetization dynamics in the presence of Dzyaloshinskii-Moriya interaction / KYUNG-JIN Lee(Korea University, Dept. of Mater. Sci. & Eng.)

EF-11(초) [09:50-10:15]

Probe of magnetic states in unconventional bubble domains by magnetic force microscopy / 김지훈(Physics, POSTECH.)

EF-12(초) [10:15-10:40]

The chirality of magnetic domain walls in the perpendicularly magnetized system / 원창연, WU Yizheng¹, GONG Chen²(경희대학교 물리학과. ¹Fudan University, Department of Physics. ²Lawrence Berkeley National Laboratory, National Center for Electron Microscopy.)

**[EF4] 응집물질물리학분과회/응용물리학분과회 공동 Focus Session:
금속 강자성 박막에서의 DM 상호작용**

2014년 10월 24일 금요일 11:00 – 12:40

장소: 302/303호

좌장: 이 현 우 POSTECH

EF-13(초) [11:00-11:25]

Determination of the Dzyaloshinskii-Moriya interaction in the inversion symmetry broken system / 유천열, 조재훈, 김남희, 김준서¹, KOOPMANS Bert¹, SWAGTEN Henk J. M.¹(인하대학교 물리학과. ¹Department of Applied Physics, Center for NanoMaterials, Eindhoven University of Technology.)

EF-14(초) [11:25-11:50]

Quantitative Measurement of Interfacial Dzyaloshinskii-Moriya Interaction by Nonreciprocal Spin-wave Propagation /

LEE Jong Min, JANG Chaun, LEE Kyung-Jin¹, MIN Byoung-Chul, CHANG Joonyeon(Spin Convergence Research Center, Korea Institute of Science and Technology, Seoul 136-791, Korea. ¹Department of Materials Science and Engineering and KU-KIST Graduate School of Converging Science and Technology, Korea University, Seoul 136-701, Korea.)

EF-15(초) [11:50-12:15]

Asymmetric Magnetic Domain-Wall Motion by the Dzyaloshinskii-Moriya Interaction /

최석봉, 제송근, 유상철, 민병철¹, 이경진²(서울대학교 물리천문학부. ¹한국과학기술원 스핀융합연구센터. ²고려대학교 신소재공학부.)

EF-16(초) [12:15-12:40]

비대칭적 자구벽이동현상을 이용한 2차원 메리소자 구현 /

문경웅, 김덕호¹, 제송근¹, 유상철¹, 전병선, 김원동, 민병철², QIU Z. Q.³, 최석봉¹, 황찬용(한국표준과학연구원, 나노측정센터. ¹서울대학교, 물리천문학부. ²한국과학기술연구원, 스핀트로닉스센터. ³Physics Department, University of California at Berkeley.)

2014년 10월 22일(수) 응용물리학과회 구두 발표

[EG1] 응용물리학과회 General Session

2014년 10월 22일 수요일 13:00 - 14:45

장소: 302/303호

좌장: 장영준 서울시립대

EG-01* [13:00-13:15]**3D FDTD study of nanomaterials addressed GaN LEDs** / 박병찬(부경대학교 물리학과 나노공정 및 물성 연구실.)**EG-02*** [13:15-13:30]**Structural and electrical properties of proton-bombarded ZnO Nanorods** / PARK C.-I, JIN Zhenlan, HWANG I.-H., SON J.-K., HAN S.-W. (Department of Physics Education and Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Korea.)**EG-03*** [13:30-13:45]**Structural and electrical property of metal-insulator-transition VO₂ thin films** / ZHENLAN Jin, I.-H. Hwang, C.-I. Park, J.-G. Son, S.-W. Han (Department of Physics Education and Institute of Fusion Science, Chonbuk National University.)**EG-04*** [13:45-14:00]**소프트 리소그래피와 콜로이드 입자의 흡착을 이용한 ZrO₂ 나노입자 패턴 형성과 전기화학적 의존성** / 장재원, 양미선, 박병찬, 문병기(부경대학교 물리학과.)**EG-05*** [14:00-14:15]**Structural and Photocatalytic Property of ZnFe₂O₄/ZnS Core-Shell Nanoparticle Prepared by Hydrothermal Method** / YOO Pil Sun, LEE Bo Wha, LIU Chunli(한국외국어대학교 전자물리학과.)**EG-06** [14:15-14:30]**Determination of thermal conductivity of SiO₂ doped Ge₄SbTe₅ films and their thermal boundary resistance with the Si₃N₄ interface by the 3 ω method** / KIM Tai Hoon, KIM Hyung Joon, KIM Kee Hoon(CeNSCMR, Dept. of Physics and Astronomy, Seoul Nat'l Univ., Seoul 151-747, Republic of Korea.)**EG-07** [14:30-14:45]**Optical properties and photocatalysis performance of different**

size ZnO Quantum dots / THUAN Doan Van, KHOA Nguyen Tri, KIM SoonWook, SEO DuckMin, YOO Dae-Hwang, HAHN Sung Hong(울산대학교, 물리학과.)

[EG2] 응용물리학과회 General Session

2014년 10월 22일 수요일 15:00 - 16:30

장소: 301호

좌장: 홍 석 철 고려대

EG-08(초) [15:00-15:30]

Fabrication of Plasmonic Au Nanopore Sensor / CHOI Seong Soo, PARK Myoung Jin¹, HAN Cheol Hee², YAMGUCHI Tokutaro³, PARK Namkyou⁴, KIM Sung In⁵, YOO Jung Ho⁵, PARK Kyoung Jin⁵, LEE Luke⁶(SunMoon University, Dept of Nanobio science and Physics. ¹SunMoon University, Research center for NanoBio Science. ²SunMoon University, Department of Chemistry. ³SunMoon University, University Instrumentation center. ⁴Seoul National University, School of Electrical Engineering. ⁵NNFC, Team for Measurement and Analysis. ⁶Univ. of California at Berkeley, Department of Bioengineering.)

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

생체친화 물질 위에 구현된 나노플라스모닉 구조 / 김성환, 권현수¹(아주대학교, 물리학과&에너지시스템학과. ¹아주대학교, 에너지시스템학과.)

EG-10* [15:45-16:00]

단클론 항체를 이용한 프리모 연결망 관찰 연구(Observation of Primo Connectome by Using Monoclonal Antibody) / 박도영, 노민석¹, 이해리¹, 김지영², 하예은³, 이규환¹, 노영일¹, 노영일¹, 이상석¹(상지대학교 대학원 동서의료공학과. ¹상지대학교 보건과학대학 한방의료공학과. ²상지대학교 생명자원과학대학 동물생명공학과. ³상지대학교 자연과학대학 생명과학과.)

EG-11* [16:00-16:15]

Morphology of protruded filopodia of CD4⁺ T-lymphocytes on feature-size modified nanopillar arrays and their separation yield / LEE Won-Yong, KIM Dong-Joo, CHOI Mun-Ki, JEONG Jin-Tak, LEE Sang-Kwon(Department of Physics, Chung-Ang University, Seoul, 156-756, Republic of Korea.)

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

FCS를 이용한 Molecular Crowding Condition에서 Quadruplex의 Nanoviscosity 측정 / 이동근, 김수용, 김석원(KAIST, 물리학과. ¹울산대, 물리학과 에너지-하비스트-스토리지 연구센터.)

[EG3] 응용물리학분과회 General Session

2014년 10월 22일 수요일 15:00 – 16:45

장소: 302/303호

좌장: 정창욱 한국외대

EG-13(초) [15:00-15:30]

Photocurrent Enhancement in Metamaterial-Integrated Infrared Detectors / 전영철(인하대학교 물리학과.)

EG-14* [15:30-15:45]

Space-time path discontinuities of wavepackets propagating across a meta-atom / 이삼현, OLIVER Wright¹, 문한섭², 우정원³, 이공주복³, 신동수⁴, 한종규, 유인상(연세대, 물리학과. ¹홋카이도 대학, 응용물리학과. ²부산대, 물리학과. ³이화여대, 물리학과. ⁴한양대, 응용물리 및 생명나노공학과.)

EG-15* [15:45-16:00]

Electro-optic Control of Refraction in Metasurface Twisted Nematic Cell / 이연익, 우정원(이화여자대학교, 물리학과.)

EG-16* [16:00-16:15]

Enhanced electrical mobility of (Ba,L a)SnO₃ film on insulating BaSnO₃ substrate / LEE Woong-Jhae, KIM Hyung Joon, SOHN Egon, KIM Tai Hoon, JEONG Hyunhak¹, PARK Ju-Young, LEE Takhee¹, KI-YOUNG Choi, KIM Kee Hoon(CeNSCMR, Department of Physics and Astronomy, Seoul National University. ¹Department of Physics and Astronomy, Seoul National University.)

EG-17* [16:15-16:30]

금속 나노 구조물/도핑 반도체 이중 박막에서의 비전통적인 금속-반도체 전이현상 / 이승훈, 신문철¹, 황성필², 장재원(부경대학교 물리학과. ¹명지대 화학과. ²고려대 응용 화학과.)

EG-18* [16:30-16:45]

Temperature-dependent Thermal Conductivity of The Nanoporous Bismuth (Bi) Thin Films / PARK No-Won, LEE Won-Yong, LEE Sang-Kwon, PARK Tae-Hyun¹(Department of Physics, Chung-Ang University. ¹Department of Physics, Chung-Ang University, Seoul, 156-756, Republic of Korea.)

[ET1] 응용물리학분과회 Tutorial

2014년 10월 22일 수요일 18:00 – 19:00

장소: 302/303호

좌장: 노희석 전북대

ET-01 [18:00-19:00]

Tip Enhanced Nano Raman Spectroscopy / 정문석(성균관대학교 에너지 과학과.)

[EF1] 응용물리학분과회 Focus Session: 나노역학계의 물성과 응용

2014년 10월 23일 목요일 09:00 – 10:40

장소: 301호

좌장: 이 상 욱 건국대

EF-01 [09:00-09:30]

Quantum Back-action Evading Measurement of Mechanical Motion / SUH Junho(한국표준과학연구원.)

EF-02 [09:30-09:50]

Measuring the Quantum in the Mechanics / SHIM Seung-Bo, CHO Sungwan, KIM Sang Goon, SUH Junho(한국표준과학연구원.)

EF-03 [09:50-10:15]

Mechanical Characterization of Graphene and Development of Its Roll-to-roll Transfer Machine for Flexible Transparent Electrode / 황보윤, 이충광, 이승모, 장봉균, 김광섭, 김경식, 이학주, 김성수¹, 김재현(한국기계연구원, 나노역학연구실, ¹전북대학교, 유기소재파이버공학과.)

EF-04 [10:15-10:40]

Emergence of Chaos in nano-electromechanical shuttles with hard-wall collision: Nonanalytic charge transpor / 박희철(한국고등과학원.)

[EG4] 응용물리학분과회 General Session

2014년 10월 23일 목요일 11:00 – 12:45

장소: 301호

좌장: 김 용 수 울산대

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

Optoelectric properties of gate-tunable MoS₂/WSe₂ heterojunction / YI Sum-Gyun, PARK Min ji, KIM Joo Hyung, KIM Sang jeong, YOO Kyung-Hwa(연세대학교 물리학과.)

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

Systematic Investigation of the Channel Properties and Contact Resistance of MoS₂ FET by a Rapid Thermal Annealing method / PARK Minji, MIN Jungki, YOO Kyung-Hwa(연세대학교 물리학과.)

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

Optical Properties of CVD Grown MoS₂ Layers / SIM Yumin, KIM Jinbae, SEONG Maeng-Je(Chung-Ang University.)

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

Raman Spectra of MoS₂ Thin Films under Uniaxial Strain / PARK

Jaesung, LEE Jae-Ung, CHEONG Hyeonsik(Department of Physics, Sogang University.)

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

Synthesis of large-area, patternable single-layer MoS₂ films by chemical vapor deposition / 박완서, 백재윤¹, 김태영, 조경준, 홍웅기², 신현준¹, 이택희(서울대학교 물리학과. ¹포항가속기연구소. ²한국기초과학연구소 전주센터.)

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

Phase Changes and Metal-Insulator Transitions in Single-Layers of Transition Metal Dichalcogenides: A Computational Study / KANG Seoung-Hun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University.)

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

Electronic Structure of Single-Crystal Monolayer Graphene on Hydrogen-Terminated Germanium Surface / 안종렬, 안성준, 이재현¹, 황동목¹(성균관대학교 물리학과. ¹성균관대학교 나노기술원.)

[EG5] 응용물리학과회 General Session

2014년 10월 23일 목요일 14:00 – 15:45

장소: 301호

좌장: 이 민 백 인하대

EG-26(초) [14:00-14:30]

Single Molecule Circuits for Organic Electronics / KIM Taekyeong(한국외국어대학교 물리학과.)

EG-27(초) [14:30-15:00]

Electronic and Magnetic Properties of 2-Dimensional Electron Gas at Amorphous Oxide/SrTiO₃ Heterostructures using Atomic Layer Deposition / LEE Sang Woon(Department of Physics and Division of Energy Systems Research, Ajou University.)

EG-28* [15:00-15:15]

Influence of surface potential bending on current transport in chalcopyrite thin-films for solar cell applications / 김지영, 김주리, 김주란, 조윤희(이화여대 물리학과.)

EG-29* [15:15-15:30]

Parallel Polymer Tandem Solar Cells containing Comb-shaped Common Electrodes / YOON Choon Sup, HAN Hee Yoon, YOON Hongkee(KAIST, Department of Physics.)

EG-30* [15:30-15:45]

Resistive Switching Properties of Cobalt Ferrite Thin Films / LIU Chunli, MUSTAQIMA MILLATY, LEE Bo Wha(한국외국어대학교 전자물리학과.)

[EG6] 응용물리학회 General Session

2014년 10월 23일 목요일 16:00 – 17:15

장소: 301호

좌장: 홍 승 훈 서울대

EG-31(초) [16:00-16:30]

Specific CTC capture using patterned silicon nanowire platform and its drug response of captured cells within breast cancer patient blood / LEE Sang-Kwon, KIM Dong-Joo, HAN Wonshik¹(Department of Physics, Chung-Ang University, Seoul 156-756, Republic of Korea. ¹Department of Surgery, Seoul National University College of Medicine, Seoul 110-744, Republic of Korea.)

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EG-32* [16:30-16:45]

Microfluidic channel with femto-liter liquid periodic structure in a hollow optical fiber / HWANG Jihyun, KIM Jongki, PARK Jiyong, OH Kyunghwan(Yonsei university, Physics.)

EG-33* [16:45-17:00]

The detection of the mass sensitivity for SiN surrounded doubly-clamped Si microbeam resonators / BAEK In-Bok, LEE Byeong-Jun¹, KWON Yi-Seul¹, LEE Bong Kuk¹, KIM Yarkyeon¹, YOON Yong Sun¹, JANG Won Ik¹, LEE Seongjae, YU Han Young(Department of Physics, Hanyang University. ¹Electronics and Telecommunications Research Institute (ETRI).)

EG-34* [17:00-17:15]

DNA Translocation Through DNA Probe Modified Glass Nanopore / YOUN Yeoan, KIM Joo Hyoung, LEE Sun-Mi¹, KIM Hyung Joon¹, YOO Kyung-Hwa(Yonsei University, Department of Physics. ¹Yonsei University, Graduate Program for Nanomedical Technology and Science.)

[EP1] 응용물리학회 Pioneer Symposium: Soft X-ray Science with Free Electron Laser

2014년 10월 23일 목요일 09:00 – 10:40

장소: 302/303호

좌장: 문 봉 진 광주과학기술원

EP-01 [09:00-09:50]

Photoemission with XFEL / SHIN Shik(Univ. of Tokyo, Japan.)

EP-02 [09:50-10:40]

Resonant inelastic X-ray scattering spectroscopy (RIXS) at the Advanced Light Source – past, progress and prospective / CHUANG Yi-De(LBNL, U.S.A.)

[EP2] 응용물리학회 Pioneering Symposium: Soft X-ray Science with Free Electron Laser

2014년 10월 23일 목요일 11:00 – 12:50

장소: 302/303호

좌장: 황 찬 용 표준원

EP-03 [11:00-11:45]

Designing a high resolution soft x-ray scattering beamline for the Max IV storage ring / AGÅKER Marcus(Uppsala University, Max IV laboratory, Lund University.)

EP-04 [11:45-12:30]

Diagnosing Extreme States of Matter using X-ray Free Electron Laser Pulses / CHO Byoung-ick(Department of Physics and Photon Science, GIST.)

EP-05 [12:30-12:50]

Soft x-ray science in PAL-XFEL / KWON Soonnam, KIM S. S., RAH S., KIM S. N., KIM Bongsoo(PAL-XFEL, POSTECH.)

[EG7] 응용물리학회 General Session: Electromagnetic Metamaterial

2014년 10월 23일 목요일 14:00 – 15:30

장소: 302/303호

좌장: 박 남 규 서울대

EG-36(초) [14:00-14:30]

Nondispersive optical activity of meshed helical metamaterials / MIN Bumki, PARK Hyun Sung, KIM Teun-Teun, KIM Hyeon-Don, KIM Kyungjin(Department of Mechanical Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon 305-751, Republic of Korea.)

EG-37(초) [14:30-15:00]

Fractional Tunneling Resonance / 박규환(고려대학교 물리학과.)

EG-38(초) [15:00-15:30]

Meta-wire, meta-surface, and meta-volume: dimensional considerations of metamaterials / 신종화, 장태용, 김리향, 김주영(한국과학기술원, 신소재공학과.)

[EG8] 응용물리학분과회 General Session: Acoustic Metamaterial and Hyperbolic Metamaterial

2014년 10월 23일 목요일 16:00 - 17:30

장소: 302/303호

좌장: 우정원 이화여대

EG-39(초) [16:00-16:30]

Wave Parameters Conforming, Top-down Design of the Acoustic Meta-atom / PARK Namkyoo, KOO Sukmo, CHO Choonlae, JEONG Jun-ho¹(Seoul National University, School of EECS. ¹Korea Institute of Machinery & Materials. Department of Nano Manufacturing Technology.)

EG-40(초) [16:30-17:00]

Acoustic Superlensing / LEE Sam Hyeon, PARK Jong Jin, PARK Choon Mahn, LEE K. J. B.¹(Yonsei University, Department of physics. ¹Ewha Womans University, Department of physics.)

EG-41(초) [17:00-17:30]

Hyperbolic metamaterials for super-resolution imaging and deep sub-wavelength cavities / RHO Junsuk(Department of Mechanical Engineering and Department of Chemical Engineering, Pohang University of Science and Technology (POSTECH).)

2014년 10월 24일(금) 응용물리학분과회 구두 발표

[EG9] 응용물리학분과회 General Session

2014년 10월 24일 금요일 09:00 - 10:00

장소: 301호

좌장: 이현휘 PAL

EG-42 [09:00-09:15]

Acoustic Luneburg Lens / 김상훈(목포해양대학교, 기관공학부.)

EG-43 [09:15-09:30]

Development of Synchrotron-based White beam X-ray Topography System for an investigation of crystallographic defects in SiC / 김 종현, 성민제, 임재홍(포항가속기연구소.)

EG-44 [09:30-09:45]

고해상도 엑스선 3차원 현미경 / 임준(포항가속기연구소.)

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

High-Durable Metallic Nanomesh Film for a Transparent Conducting Electrode / 김한중, 이수한, 이지혜, 이응숙, 최준혁, 정준호, 정주연, 최대근(한국기계연구원, 나노공정연구실.)

[EF2] 응용물리학분과회 Focus Session: OLED 소재 및 소자

2014년 10월 24일 금요일 11:00 – 12:45

장소: 301호

좌장: 임은주 단국대

EF-05(초) [11:00-11:30]

플렉서블 디스플레이 시장 및 기술 동향 / 김정현(LG디스플레이.)

EF-06(초) [11:30-12:00]

Improved quantum efficiency in thermally activated delayed fluorescent organic light-emitting diodes / LEE Jun Yeob(Department of Polymer Science and Engineering, Dankook University.)

EF-07(초) [12:00-12:30]

Outcoupling of light in OLEDs: from a cavity-resonance-induced enhancement to scattering-based extraction / YOO Seunghyup, CHO Hyunsu, KIM Eunhye, SONG Jinouk(KAIST, 전기 및 전자공학과.)

EF-08 [12:30-12:45]

Co-solvents Effects on the morphology of a P3HT:PCBM bulk heterojunction layer and its interface with an aluminum electrode / LEE Hyun Hwi, SHIN Tae Joo, KIM Hyo Jung¹(Pohang Accelerator Lab., POSTECH. ¹Dept. of Organic Materials Science and Engineering, Pusan National University.)

**[EF3] 응용물리학분과회/응집물질물리학분과회 공동 Focus Session:
금속 강자성 박막에서의 DM 상호작용**

2014년 10월 24일 금요일 09:00 – 10:40

장소: 302/303호

좌장: 최석봉 서울대

EF-09(초) [09:00-09:25]

Dzyaloshinskii-Moriya Interaction and Spin-Orbit Torque / CHEON Su-Ik, KIM Kyoung-Whan, LEE Kyung-Jin¹, STILES Mark², LEE Hyun-Woo(Department of Physics, POSTECH. ¹Department of Materials Science and Engineering, Korea University. ²National Institute of Standards and Technology, Gaithersburg, Maryland, USA.)

EF-10(초) [09:25-09:50]

Magnetization dynamics in the presence of Dzyaloshinskii-Moriya interaction / KYUNG-JIN Lee(Korea University, Dept. of Mater. Sci. & Eng.)

EF-11(초) [09:50-10:15]

Probe of magnetic states in unconventional bubble domains by magnetic force microscopy / 김지훈(Physics, POSTECH.)

EF-12(초) [10:15-10:40]

The chirality of magnetic domain walls in the perpendicularly magnetized system / 원창연, WU Yizheng¹, GONG Chen²(경희대학교 물리학과. ¹Fudan University, Department of Physics. ²Lawrence Berkeley National Laboratory, National Center for Electron Microscopy.)

[EF4] 응용물리학과/응집물질물리학과회 공동 Focus Session:
금속 강자성 박막에서의 DM 상호작용

2014년 10월 24일 금요일 11:00 - 12:40

장소: 302/303호

좌장: 이 현 우 POSTECH

EF-13(초) [11:00-11:25]

Determination of the Dzyaloshinskii-Moriya interaction in the inversion symmetry broken system / 유천열, 조재훈, 김남희, 김준서¹, KOOPMANS Bert¹, SWAGTEN Henk J. M.¹(인하대학교 물리학과. ¹Department of Applied Physics, Center for NanoMaterials, Eindhoven University of Technology.)

EF-14(초) [11:25-11:50]

Quantitative Measurement of Interfacial Dzyaloshinskii-Moriya Interaction by Nonreciprocal Spin-wave Propagation / LEE Jong Min, JANG Chaun, LEE Kyung-Jin¹, MIN Byoung-Chul, CHANG Joonyeon(Spin Convergence Research Center, Korea Institute of Science and Technology, Seoul 136-791, Korea. ¹Department of Materials Science and Engineering and KU-KIST Graduate School of Converging Science and Technology, Korea University, Seoul 136-701, Korea.)

EF-15(초) [11:50-12:15]

Asymmetric Magnetic Domain-Wall Motion by the Dzyaloshinskii-Moriya Interaction / 최석봉, 제송근, 유상철, 민병철¹, 이경진²(서울대학교 물리천문학부. ¹한국과학기술원 스핀융합연구센터. ²고려대학교 신소재공학부.)

EF-16(초) [12:15-12:40]

비대칭적 자구벽이동현상을 이용한 2차원 메리소자 구현 / 문경웅, 김덕희¹, 제송근¹, 유상철¹, 전병선, 김원동, 민병철², QIU Z. Q.³, 최석봉¹, 황찬용(한국표준과학연구원, 나노측정센터. ¹서울대학교, 물리천문학부. ²한국과학기술연구원, 스핀트로닉스센터. ³Physics Department, University of California at Berkeley.)

2014년 10월 22일(수) 통계물리학분과회 구두 발표

[FG1] 통계물리학분과회 General Session: 통계역학

2014년 10월 22일 수요일 13:00 – 14:30

장소: 212/213호

좌장: 권 철 안 명지대

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

Heat transistor behavior of harmonic chain / 김상락(경기대.)

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

Total Cost of Operating an Information Engine / UM Jaegon, HINRICHSEN Hye¹, KWON Chulan², PARK Hyunggyu(KIAS. ¹University of Wuerzburg. ²Myongji University.)

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

Optimal Tuning of Information Engine via Harmonic Potential / PARK Jong-Min, LEE Jae Sung¹, NOH Jae Dong(Department of Physics, University of Seoul. ¹School of Physics, Korea Institute for Advanced Study.)

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

Voter model on a coevolving network / YI Su Do, BAEK Seung Ki, KIM Beom Jun¹(Department of Physics, Pukyong National University. ¹Department of Physics, Sungkyunkwan University.)

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

Bursty dynamics and its effect on spreading / 조항현(POSTECH 물리학과.)

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

Various transition natures in heterogeneous core contact process / 채희승, 육순형, 김엽(경희대학교.)**[FG2] 통계물리학분과회 General Session: 복잡계**

2014년 10월 22일 수요일 15:00 – 16:30

장소: 212/213호

좌장: 이 남 경 세종대

FG-07(초) [15:00-15:30]

Anomalous Diffusion of Single-molecules in Living Cells: at the Interface of Biology and Statistical Physics / 전재형(School of Physics, Korea Institute for Advanced Science.)

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

Chemotaxing and haptotaxing random walkers having directional persistence / 이경진, 권태구(고려대학교 물리학과.)

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

Matchmaker, Matchmaker, Make Me a Match: Migration of Populations via Marriages in the Past / LEE Sang Hoon, FFRANCON Robyn¹, ABRAMS Daniel², KIM Beom Jun³, PORTER Mason⁴(Department of Energy Science, Sungkyunkwan University. ¹Department of Physics, University of Gothenburg. ²Department of Engineering Sciences and Applied Mathematics, Northwestern University. ³Department of Physics, Sungkyunkwan University. ⁴Mathematical Institute, University of Oxford.)

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

Traveling-wave solution of evolutionary dynamics in a one-dimensional trait space / LEE Mi Jin, KIM Beom Jun, BAEK Seung Ki¹(Department of physics, Sungkyunkwan University. ¹Department of physics, Pukyong National University.)

FG-11 [16:15-16:30]

Preferential game engagement based on the reputation in prisoners' dilemma game / 박혜진, 정형채¹, 김범준(성균관대학교 물리학과. ¹세종대학교 물리학과.)

통계물리학과회 분과총회

2014년 10월 22일 수요일 16:30 - 17:00

장소: 212/213호

2014년 10월 23일(목) 통계물리학과회 구두 발표

[FG3] 통계물리학과회 General Session: 생물물리

2014년 10월 23일 목요일 09:00 - 10:45

장소: 212/213호

좌장: 황 동 욱 수리과학연

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

Transformation of microtubules into inverted tubulin tubules triggered by a tubulin conformation switch / 최명철(KAIST.)

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

Global and Modular Sparse Synchronization in Small-World Clustered Networks of Inhibitory Fast Spiking Izhikevich Interneurons / LIM Woochang, KIM Sang-Yoon(Daegu National University of Education, Department of Science Education, Computational Neuroscience Lab.)

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

Segmentation and classification of N-terminal secreted proteins in Burkholderia gladioli and B. glumae using hidden Markov model / NGUYEN Thao Thi, NGUYEN Tuyen Van¹, CHON Tae-Soo², HEO Muyoung³, SEO Young-Su(부산대학교, 미생물학과. ¹부산대학교, 수학과. ²부산대학교, 생물학과. ³부산대학교, 물리학과.)

FG-15* [09:45-10:00]

Surface Charge Effects On Optical Trapping Of Nanometer-Sized Lipid Vesicles / 김만원, 박성민¹, 최시영², 송채연³, 최명철³(KAIST, 물리학과. ¹KAIST 물리학과. ²KAIST, 정보전자연구소. ³KAIST, 바이오 및 뇌공학과.)

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

Neural noise, stochastic resonance of bursting neural oscillators: experiments and model study / 이경진, 이호준, 김준환(고려대학교 물리학과.)

FG-17* [10:15-10:30]

Left-handed DNA: Structural Transitions in DNA Driven by Force and Torque / 이남경, 권아영, 홍석철¹, JOHNER Albert²(세종대학교 물리학과. ¹고려대학교 물리학과. ²Institut Charles Sadron.)

FG-18 [10:30-10:45]

Temperature-induced Phase-resetting In The Biological Master Clock, SCN / 정병하, 홍진희, 김현, 이경진(고려대학교 물리학과 세포동력학연구센터.)

[FG4] 통계물리학회분과회 General Session: 네트워크

2014년 10월 23일 목요일 14:00 – 15:30

장소: 212/213호

좌장: 김 범 준 성균관대

FG-19 [14:00-14:15]

Global Metabolic Interaction Network of the Human Gut Microbiota / 성재윤, 장성호¹, CHIA Nicholas², 정규열¹, 진용수³, 김판준⁴(아시아태평양 이론물리센터. ¹포항공과대학교, 화학공학과. ²Mayo Clinic, Department of Surgery. ³University of Illinois at Urbana-Champaign, Food Science and Human Nutrition. ⁴아시아태평양 이론물리센터 & 포항공과대학교, 물리학과.)

FG-20 [14:15-14:30]

Efficient Algorithm to Compute Mutually Connected Components in Multiplex Networks / 강병남, 황성민¹, 최상민, 이덕재(서울대학교, 물리천문학부. ¹University of Cologne, Institute for Theoretical Physics.)

FG-21* [14:30-14:45]

Viability of multiplex networks with link overlap / 이규민, 민병준, 이상철, 고광일(고려대학교, 물리학과.)

FG-22 [14:45-15:00]

Optogenetic mapping of functional connectome within (biological master clock,) SCN. / 이경진, 민철홍, 홍진희, 정병하, 김현(고려대학교 물리학과.)

FG-23 [15:00-15:15]

Evolutionary Graph Theory in Structurally Correlated Populations / 양현모, 김철민¹(Department of Physics, UNIST. ¹Department of Physics, School of Life Sciences, UNIST.)

FG-24* [15:15-15:30]

Uncovering the nutritional landscape of food / KIM Seunghyeon, SUNG Jaeyun, FOO Mathias, JIN Yong-Su¹, KIM Pan-Jun(APCTP, Emergent Dynamics of Complex Living Systems. ¹UIUC, Department of Food Science and Human Nutrition.)

[FG5] 통계물리학회 General Session: 상전이와 임계현상

2014년 10월 23일 목요일 16:00 – 17:15

장소: 212/213호

좌장: 박 수 찬 가톨릭대

FG-25 [16:00-16:15]

Finite-Size Scaling in the KPZ-related Sign Phase Transition / HA Meesoon, BAEK Yongjoo¹, JEONG Hawoong¹, PARK Hyunggyu², DEN NIJS Marcel³(Department of Physics Education, Chosun University. ¹Department of Physics, KAIST. ²School of Physics, KIAS. ³Department of Physics, University of Washington.)

FG-26 [16:15-16:30]

Diverse types of phase transitions in multiplex networks: Ashikin-Teller Model / LEE Jaesung, JANG Siho¹, SUNGMIN Hwang², KAHNG Byungnam²(Korea Institute for Advanced Study. ¹Korea Military Academy. ²Seoul National University.)

FG-27 [16:30-16:45]

Physical ageing in the Arcetri model / DURANG Xavier, HENKEL Malte¹(KIAS, School of Physics. ¹Universite de Lorraine, Departement de Physique de la matiere et des materiaux, France.)

FG-28 [16:45-17:00]

Scaling behaviors in hybrid phase transition in cluster merging process / CHO Young Sul, KAHNG Byungnam(Seoul National University.)

FG-29* [17:00-17:15]

Percolation Transition and Non-Universal Behavior in Spatial Prisoner's Dilemma Game / CHOI Woosik, YOOK Soon-Hyung, KIM Yup(Department of Physics, Kyung Hee University, Korea.)

2014년 10월 22일(수) 물리교육분과회 구두 발표

[GG1] 물리교육분과회 General Session

2014년 10월 22일 수요일 13:00 - 15:00

장소: 컨벤션홀 310호

좌장: 조 광 희 조선대

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

과학관 전시물 패널의 교육과정 연계성 분석을 위한 도구의 개발 및 적용 / 김명곤, 조광희(조선대학교.)

GG-02 [13:20-13:40]

기업 마케팅 방법을 이용한 학생의 물리학습 수용에 관한 연구 / 이상원, 임성민(대구대학교, 과학교육학과.)

GG-03 [13:40-14:00]

초점물체방법을 이용한 물리적 발명 아이디어 산출의 효율성 / 홍석인, 이동욱(경인교육대학교, 과학교육과.)

GG-04 [14:00-14:20]**Torque Landscapes of a Johnson Electric Motor / HONG Seok-In, HONG Seok-Cheol¹**(Department of Science Education, Gyeongin National University of Education. ¹Department of Physics, Korea University.)**GG-05 [14:20-14:40]**

열의 정의와 열의 실제 사용 의미의 혼란에 대한 분석: 교과서와 대학생의 이해를 중심으로 / 정용욱(서울대학교, 물리교육과.)

GG-06* [14:40-15:00]

동료 교수학습을 통한 양자 터널링 수업의 효과 / 김성원, 김수아(이화여자대학교, 과학교육과.)

[GF1] 물리교육분과회 Focus Session

2014년 10월 22일 수요일 15:25 - 16:45

장소: 컨벤션홀 310호

좌장: 이 봉 우 단국대

GF-01 [15:25-15:45]**[특허] 우리나라 청소년 발명·특허교육사업 추진현황 및 향후 핵심과제 / 이윤조, 이은경¹, 이봉우²**(한국발명진흥회. ¹특허청. ²단국대학교, 과학교육과.)**GF-02 [15:45-16:05]****[특허] 물리 교육에서의 특허 출원 / 이봉우, 손정우¹, 조현국²**(단국대학교, 과학교육과. ¹경상대학교, 물리교육과. ²단국대학교, 교양기초교육원.)

GF-03 [16:05-16:25]

[특허] 물리교육에서의 발명·특허 교육에 대한 이론적 논의: 문헌 조사를 중심으로 / 조한국, 이봉우¹, 손정우²(단국대학교 교양기초교육원, ¹단국대학교 과학교육과, ²경상대학교 물리교육과.)

GF-04 [16:25-16:45]

[특허] 문이과 통합형 교육과정에서 과학(물리)교과교육차원의 발명특허교육 접근 / 손정우, 이봉우¹, 조한국², 이기영³, 박종석⁴(경상대학교, 물리교육과, ¹단국대학교, 과학교육과, ²단국대학교, 교양기초교육원, ³강원대학교, 과학교육학부, ⁴경북대학교, 화학교육과.)

2014년 10월 23일(목) 물리교육분과회 구두 발표

[GG2] 물리교육분과회 General Session

2014년 10월 23일 목요일 14:00 - 16:20

장소: 컨벤션홀 310호

좌장: 김 중 복 교원대

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GG-07 [14:00-14:20]

과학영재는 R&E program에서 무엇을 배우는가? / 이지원, 김중복(한국교원대학교.)

GG-08 [14:20-14:40]

3D 가상현실을 이용한 과학영재 동역학 교육에서 가속도 표현 변화 / 오원근, 송진아, 신대호, 이성우(충북대 물리교육과.)

GG-09 [14:40-15:00]

창의적 물리학자의 어린 시절 행동특성 추출 / 신원호, 박종원(전남대학교.)

GG-10 [15:00-15:20]

일반계 고등학교 지역 공동 영재학급 운영 프로그램과 아두이노가 적용된 ICT 학습 모형 개발 / 이승우, 김재권¹, 김영민(부산대학교, ¹학성고등학교.)

GG-11 [15:20-15:40]

과학교사의 수업개선을 위한 메타인지적 인식을 알아보기 위한 점검표 개발 / 홍행화, 박종원(전남대학교.)

GG-12 [15:40-16:00]

물리교사 자신의 수업 개선 노력에 대한 이해 / 홍행화, 박종원(전남대.)

GG-13 [16:00-16:20]

중학교 과학 교과서의 물리 영역 탐구 활동의 특성 분석 -2009 개정 교육과정 중심으로- / 김성원, 문공주, 최양희, 윤소영, 경희경(이화여자대학교.)

[GG3] 물리교육분과회 General Session

2014년 10월 23일 목요일 16:45 - 17:45

장소: 컨벤션홀 310호

좌장: 박 중 원 전남대

GG-14 [16:45-17:00]

[T2P] 지지가설 설정 및 데이터 분석과정을 통한 실험탐구활동 소개 / 김재호(한빛고등학교.)

GG-15 [17:00-17:15]

[T2P] 연료감응 태양전지의 제작과 활용 방안 / 홍남인(영광고등학교.)

GG-16 [17:15-17:30]

[T2P] 과학 작품 및 자유탐구를 위한 아이디어 창안 사례 / 채희진(전남과학고등학교.)

GG-17 [17:30-17:45]

[T2P] 시뮬레이션 (Algodoo) 프로그램을 이용한 물리 지도의 실제 / 양희관, 박종원(전남대학교.)

2014년 10월 22일(수) 플라스마물리학분과회 구두 발표

[HG1] 플라스마물리학분과회 General Session

2014년 10월 22일 수요일 15:00 - 16:45

장소: 컨벤션홀 311/312호

좌장: 조 용 섭 양성자가속기

HG-01 [15:00-15:15]

Current Status of High Power RF System for PAL-XFEL / 이흥수, 박성수, 김상희, 박용정, 주영도, 허훈, 허진열, 김광훈, 이소성, 강흥식, 김광우, 고인수, MATSUMOTO HIROSHI¹(포항가속기연구소, ¹KEK.)

HG-02 [15:15-15:30]

Introduction to X-ray Pump and Probe end-station at PAL-XFEL / KIM Sunam, EOM Intae, NAM Ki Hyun, KIM Kyung Sook, HYUN HyoJung, SHIN Hocheol, KANG Tai-Hee, KIM Bongsoo(Pohang Accelerator Laboratory.)

HG-03 [15:30-15:45]

의료용중입자가속기개발사업(KHIMA)의 프로젝트관리체계 / 정대화, 김근범, 남상훈(한국원자력의학원.)

HG-04 [15:45-16:00]

Stabilized 2-GeV electron beam produced using a coherently controlled LWFA process / 김형택, 배기홍¹, PATHAK V. B.², 김이중, 이성구, 성재희, 정대문, NAKAJIMA K.², 남창희³(기초과학연구원, 초강력레이저과학 연구단 및 광주과학기술원, 고등광기술연구소, ¹광주과학기술원, 고등광기술연구소, ²기초과학연구원, 초강력레이저과학 연구단, ³기초과학연구원, 초강력레이저과학 연구단 및 물리광학과, 광주과학기술원.)

HG-05 [16:00-16:15]

Effect of chirp on laser propagation and controlled self-injection in laser wakefield acceleration / PATHAK V. B., VIEIRA J.¹, 김형택², NAKAJIMA K.³, FONSECA R. A.¹, SILVA L. O.¹, 남창희⁴(기초과학연구원, 초강력레이저 과학 연구단, ¹GoLP/IPFN, Instituto Superior Técnico, Lisboa, Portugal, ²기초과학연구원, 초강력 레이저 연구단 및 고등광기술연구소, 광주과학기술원, ³기초과학연구원, 초강력 레이저 연구단, ⁴기초과학연구원, 초강력 레이저 연구단 및 물리광학과, 광주과학기술원.)

HG-06 [16:15-16:30]

의료용 가속기 전자총용 전력반도체 기반의 펄스전원장치 개발 / 임희진, 노성진, 이만우, 이무진, 이준규, 정동혁, 양광모, 노성채(동남권원자력의학원, 연구센터, ¹(주)동아하이텍.)

HG-07 [16:30-16:45]

Collimated Plasma Jets and Hole Boring and Light Sail Regimes of RPA / KAKOLEE Kaniz, 남창희¹, BORGHESI Marco²(기초과학연구원, 초강력 레이저과학 연구단, ¹기초과학연구원, 초강력 레이저과학 연구단; 광주과학기술원, 물리광과학과, ²Queen's University Belfast.)

2014년 10월 23일(목) 플라스마물리학분과회 구두 발표

[HG2] 플라스마물리학분과회 General Session

2014년 10월 23일 목요일 09:15 – 10:45

장소: 컨벤션홀 311/312호

좌장: 허민섭 울산과기대

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

Beam Dynamics Simulation for HEBT at KHIMA Synchrotron System / PARK Chawon, NAM Sang Hoon, KIM Geun Beom, AN Dong Hyun, YIM Heejoong, HAHN Garam(KIRAMS.)

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

Electron Diagnostics Based on Continuum Radiation in Atmospheric Pressure Plasmas / PARK Sanghoo, MOON Se Youn¹, CHOE Wonho(Korea Advanced Institute of Science and Technology, Physics. ¹Chonbuk National University, Quantum System Engineering.)

HG-10* [09:45-10:00]

플라즈마 홀 추력기의 구조에 따른 다중전하 이온 효과 및 성능 특성 연구 / 김호락, 임유봉, 한웅희, 선종호¹, 최원호(KAIST, 물리학과, ¹경희대학교, 우주과학과.)

HG-11 [10:00-10:15]

원형편광 레이저 펄스에 의한 다중이온 박막 표적의 광압가속 동력학 / 배기홍, 김철민¹, 김이중¹, 남창희²(고등광기술연구소, 광주과학기술원, ¹BS, 고등광기술연구소, 광주과학기술원, ²BS, 물리광과학과, 광주과학기술원.)

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

Terahertz radiation in magnetized plasmas by colliding lasers / 조명훈, 김영국, 허민섭(Unist.)

HG-13 [10:30-10:45]

C-band 정상파형 소형 전자 선형 가속기 기반 전자선 및 X-선 발생장치 시제품 제작 및 테스트 / 이준규, 이준규¹, 강상구, 강영록, 노성진, 이만우, 이무진, 이상진, 임희진, 정동혁, 양광모, 신성균², 조무현³, 조무현⁴, 양해룡⁴, 남궁원⁴(동남권원자력의학원, 연구센터, ¹부산대학교, 물리학과, ²POSTECH, 첨단원자력공학부, ³POSTECH, 물리학과, ⁴포항가속기연구소.)

[HF1] 플라스마물리학분과회 Focus Session

2014년 10월 23일 목요일 14:00 - 15:20

장소: 컨벤션홀 311/312호

좌장: 문 세 연 전북대

HF-01 [14:00-14:40]

Review of Electrical Probe Diagnostics / 노태협(국가핵융합연구소, 플라스마 기술연구센터, 전라북도 군산시 오식도동 814-2.)

HF-02 [14:40-15:20]

Laser Thomson scattering for low temperature plasmas / SEO Byong Hoon, YOU Shin Jae¹, KIM Jung Hyung, YOU Kwang Ho, KIM Dae Woong(Vacuum center, Korea Research Institute of Standard and Science. ¹Dep. Phys., Chungnam national university.)

[HF2] 플라스마물리학분과회 Focus Session

2014년 10월 23일 목요일 15:30 - 17:30

장소: 컨벤션홀 311/312호

좌장: 노 태 협 핵융합연

HF-03 [15:30-16:10]

VUV absorption spectroscopy for absolute atomic density measurement / MOON Se Youn(Department of Quantum System Engineering, Chonbuk National University.)

HF-04 [16:10-16:50]

대면적 플라스마 진단을 위한 토모그래피 기법 및 렌즈 집속 분광 진단법 / 이승현, 박호용¹, 유석재², 최원호(대전광역시 유성구 대학로 291, KAIST 물리학과. ¹대전광역시 유성구 대학로 291, KAIST 물리학과, 삼성전자 생산기술연구소. ²전라북도 군산시 동장산로 37, 국가핵융합연구소 플라스마 기술 연구센터.)

HF-05 [16:50-17:30]

Development of cut-off probes and their applications / YOU ShinJae, KIM J. H., KIM D. W., NA B. K.¹, YOU K. H.¹, CHANG H. Y.¹(Vacuum Center, Korea Research Institute of Standards and Science, Republic of Korea. ¹Dept. Physics, Korea Advanced Institute of Science and Tech., Republic of Korea.)

2014년 10월 23일(목) 광학 및 양자전자학분과회 구두 발표

[IG1] 광학 및 양자전자학분과회 General Session

2014년 10월 23일 목요일 09:00 - 10:30

장소: 304호

좌장: 이 광 결 한양대

IG-01 [09:00-09:15]

엑스선 레이저의 편광 / 김철민, JANULEWICZ Karol¹, 남창희¹, STIEL Holger², NISHIKINO Masaharu³, HASEGAWA Noboru³, KAWACHI Tetsuya³(기초과학연구원, 초강력 레이저과학 연구단; 광주과학기술원, 고등광기술연구소, ¹기초과학연구원, 초강력 레이저과학 연구단; 광주과학기술원, 물리광학과, ²Max Born Institute, ³Japan Atomic Energy Agency.)

IG-02 [09:15-09:30]

Resolution Enhancement of Single-shot Table-top X-ray Coherent Diffractive Imaging by The Sharp Phase Edge / LEE Kyoung Hwan, YUN Hyeok, SUNG Jae Hee¹, LEE Seong Ku¹, LEE Hwang Woon, KIM Hyung Taek¹, NAM Chang Hee²(Center for Relativistic Laser Science, Institute for Basic Science, ¹Advanced Photonics Research Institute, GIST, ²Department of Physics and Photon Science, GIST.)

IG-03 [09:30-09:45]

Temporal contrast degradation by refractive index nonlinearity in high power CPA lasers / LEE Seong Ku, SUNG Jae Hee, LEE Hwang Woon, JEONG Tae Moon, NAM Chang Hee(IBS, CoReLS.)

IG-04* [09:45-10:00]

Nonlinear Optical Properties of Randomly Stacked Multi-layer Graphene / 이상민, 곽지윤, 이병직, 김상진¹, 홍병희¹, 염동일, 안광준(Department of Physics & Division of Energy Systems Research, ¹Department of Chemistry.)

IG-05* [10:00~10:15]

시간 분해 이색 여기-탐침 분광법을 이용한 Graphite 여기 전자 동역학 분석 / 이기주, 정수용¹, 김호종¹, 서승원(충남대학교, 물리학과, ¹한국표준과학연구원.)

IG-06* [10:15~10:30]

Broadband Tunable NIR and Visible Femtosecond Optical Parametric Oscillator based on MgO doped Periodically Poled Lithium Niobate / YEE Ki Ju, JEONG Tae Young, KIM Seung Hyun(Department of Physics, Chungnam National University, Daejeon, 305-764, Korea.)

[IG2] 광학 및 양자전자학분과회 General Session

2014년 10월 23일 목요일 11:00 - 12:15

장소: 304호

좌장: 정영욱 원자력연

IG-07* [11:00-11:15]

분해능 향상을 위한 간섭 공초점 현미경의 구현 / 김태성, 이재란¹, 강만일¹, 김석원¹(울산대학교 물리학과 에너지 하비스트-스토리지 연구센터, ¹울산대학교 물리학과 에너지-하비스트-스토리지 연구센터.)

IG-08* [11:15-11:30]

Super-resolution Imaging with Illumination-induced Optical Fluctuation / KIM Min-Kwan, PARK Chung-Hyun, PARK Yong-Keun, CHO Yong-Hoon(Korea Advanced Institute of Science and Technology (KAIST), Department of Physics and Graduate School of Nanoscience & Technology.)

IG-09* [11:30-11:45]

Diffusion-Controlled Reaction of Fluorescence Quenching by KI in Viscous Medium / JUNG Seokhyun, KIM Soo Yong, KIM Sok Won¹(Korea Advanced Institute of Science and Technology, Department of Physics. ¹University of Ulsan, Department of Physics Energy-Harvest-Storage Research Center.)

IG-10 [11:45-12:00]

Full-Field Subwavelength Imaging Using a Scattering Superlens / PARK ChungHyun, PARK Jung-Hoon, RODRIGUEZ Christophe, YU HyeonSeung, KIM MinKwan, LEE Yong-Hee, JIN KyoungSuk¹, NAM Ki Tae¹, HAN Seungyong², KO Seung Hwan², SHIN Jonghwa³, CHO Yong-Hoon, PARK YongKeun(KAIST, Department of physics. ¹Seoul National University, Department of Material Science and Engineering. ²Seoul National University, Department of Mechanical Engineering. ³KAIST, Department of Materials Science and Engineering.)

IG-11 [12:00-12:15]

New Synchronisation Method of Arbitrary Different Radio Frequencies at PLS-II / 조원혁, 이수형¹, 이동렬(숭실대학교 물리학과. ¹한국표준과학연구원.)

[IG3] 광학 및 양자전자학분과회 General Session

2014년 10월 23일 목요일 14:00 - 15:15

장소: 304호

좌장: 이종욱 전남대

IG-12* [14:00-14:15]

Optomechanically induced flow within a single medium / 주보람, 최홍구, 정지성, 전필준¹, 배윤성¹, 김덕영¹, 오경환(연세대학교 물리학과 광소자물리연구실. ¹연세대학교 물리학과 나노광이미징시스템연구실.)

IG-13* [14:15-14:30]

PCS를 이용한 V205박막의 결정구조 연구 / 정찬배, 이재란, 강만일, 김석원
(울산대학교, 물리학과 에너지-하베스트-스토리지 연구센터.)

IG-14* [14:30-14:45]

비타민B2를 도핑한 DNA film에 대한 광학적 연구와 응용 / 공병주, 신인철, 정우현, 펄슨비온, 이호원, 김재훈, 오경환(연세대학교, 물리학과.)

IG-15 [14:45-15:00]

Whispering gallery modes in deformed microcavities via transformation optics / RYU Jung-Wan, KIM Yushin¹, LEE Soo-Young, KIM Inbo, HAN Jae-Hyung, TAE Heung-Sik, CHOI Muhan, MIN Bumki¹(Kyungpook National University, School of Electronics Engineering. ¹Korea Advanced Institute of Science and Technology, Department of Mechanical Engineering.)

IG-16 [15:00-15:15]

Implementation of Reflection Eigenchannels through Disordered Media / 고학석, 최원식, 김문석, 최원준(고려대학교 물리학과.)

[JP1] 광학및양자전자학분과회/원자및분자물리학분과회 Pioneering Symposium: 빛과 원자를 위한 공방

2014년 10월 23일 목요일 16:00 – 17:00

장소: 컨벤션홀 308/309

좌장: 안재욱 KAIST

JP-01(초) [16:00-16:30]

Designer photons for designed bound and free electron wave-packets / BAUMERT Thomas(Universitaet Kassel, Physik.)

JP-02(초) [16:30-17:00]

Recent surprises in ultrashort-laser-pulse measurement / TREBINO Rick(Georgia Tech, Physics.)

[JP2] 광학및양자전자학분과회/원자및분자물리학분과회 Pioneering Symposium: 빛과 원자를 위한 공방

2014년 10월 23일 목요일 17:00 – 18:00

장소: 컨벤션홀 308/309

좌장: 정영욱 KAERI

JP-03(초) [17:00-17:20]

Generation of the Quiet Bursts of Light / 김정원(카이스트.)

JP-04(초) [17:20-17:40]

Weak and strong measurement of molecular rotation and mass / SCHULTZ Thomas(UNIST, chemistry.)

JP-05(초) [17:40-18:00]

Phase-coded lights for atomic transitions / AHN Jaewook(KAIST, Physics.)

2014년 10월 23일(목) 원자 및 분자물리학회 구두 발표

[JG1] 원자 및 분자물리학회 General Session: Cold Atom Physics

2014년 10월 23일 목요일 09:00 – 10:25

장소: 컨벤션홀 308/309호

좌장: 김 동 희 광주과학기술원

JG-01(초) [09:00-09:25]**Demonstration of Rabi Oscillation and Shuttling using Trapped Ions**/ 안준식, 김민형, 홍석준¹, 김민재¹, 천홍진¹, 조동일¹, 김태현(SK텔레콤 Quantum Tech. Lab, ¹서울대학교 전기정보공학부.)**JG-02** [09:25-09:40]**Dissipative Dynamics of a Corotating Vortex pair in Finite**

Temperatures / MOON Geol, KWON Woo Jin, SEO Sang Won, KANG Seji, SHIN Yong-il(School of Physics and Astronomy, Seoul National University, Seoul 151-742, Korea.)

JG-03* [09:40-09:55]**Revealing single-trap condensate fragmentation by measuring**

density-density correlations after time-of-flight / FISCHER Uwe, 강명균(서울대학교 물리학부.)

JG-04* [09:55-10:10]**2D BEC under pressure**/ 박정혁, 조원영, 김상우(¹서강대학교, 물리학과, ¹고등과학원, 물리학부.)**JG-05** [10:10-10:25]**Generalized energy measurements and modified transient**quantum fluctuation theorems / B. Prasanna Venkatesh, WATANABE Gentaro¹, TALKNER Peter²(APCTP. ¹APCTP, POSTECH. ²University of Augsburg.)**[JG2] 원자 및 분자물리학회 General Session: Quantum Optics**

2014년 10월 23일 목요일 11:00 – 12:30

장소: 컨벤션홀 308/309호

좌장: 김 진 태 조선대

JG-06 [11:00-11:15]**The Effect of Polarization Mode Dispersion on Polarization**

Entanglement in Parametric Down-converted Photon Pair / LIM, Hyang-Tag, HONG Kang-Hee, KIM Yoon-Ho(POSTECH, Department of Physics.)

JG-07 [11:15-11:30]

Complete manipulation of nonclassical time correlation of narrowband photon pairs / CHO Young-Wook, PARK Kwang-Kyoon¹, LEE Jong-Chan¹, KIM Yoon-Ho¹(Centre for Quantum Computation and Communication Technology, The Australian National University, Australia. ¹Department of Quantum Science, The Australian National University, Australia.)

JG-08 [11:30-11:45]

Entangling Different-Color Photons via Time-Resolved Measurement and Active Feed Forward / TIAN-MING ZHAO Tian-Ming, YANG Han Zhang, Jian, SANG Zi-Ru, JIANG, Xiao, BAO Xiao-Hui, WEI JIAN-(Hefei National Laboratory for Physical Sciences at Microscale and Department of Modern Physics, University of Science and Technology of China, China.)

JG-09 [11:45-12:00]

사광파 조화(Four-wave mixing; FWM)로 생성된 빛의 광자 레벨 측정 / 정택, 문한섭(부산대학교, 물리학과.)

JG-10* [12:00-12:15]

Effects of multimode pump on distinguishability of photon pairs in a periodically poled KTiOPO₄ / 이희정, 이상민, 김현오, 문한섭(부산대학교.)

JG-11* [12:15-12:30]

사다리형 원자계에서 이광자 결맞음과 삼광자 결맞음 사이의 관계 / 이윤석, 문한섭(부산대학교, 물리학과.)

[JG3] 원자 및 분자물리학분과회 General Session: Atomic, Molecular and Optical Physics

2014년 10월 23일 목요일 14:00 – 15:20

장소: 컨벤션홀 308/309

좌장: 김형택 광주과학기술원

JG-12(초) [14:00-14:25]

Evidence of vibronic origin of long-lasting quantum coherence in an artificial light harvester / LIM james, CAYCEDO-SOLER Felipe, HUELGA Susana F, PLENIO Martin B, PRIOR Javier¹, PALECEK David², ZIGMANTAS Donatas², LINCOLN Craig³, HAUER Jürgen³(Institute of Theoretical Physics, University Ulm, Ulm, Germany. ¹Departamento de Física Aplicada, Universidad Politécnica de Cartagena, Cartagena, Spain. ²Department of Chemical Physics, Lund University, Lund, Sweden. ³Photonics Institute, Vienna University of Technology, Vienna, Austria.)

JG-13(초) [14:25-14:50]

Two-dimensional High-harmonic Spectroscopy For Probing Multi-orbital Structures In Molecules / YUN Hyeok, LEE Kyung-Min, SUNG Jae Hee¹, KIM Kyung Taek², KIM Hyung Taek¹, NAM Chang Hee²(Institute for Basic Science, Center for Relativistic Laser Science. ¹GIST, Advanced Photonics Research Institute & Institute for Basic Science, Center for Relativistic Laser Science. ²Institute for Basic Science, Center for Relativistic Laser Science & GIST, Dept of Physics and Photon Science.)

JG-14 [14:50-15:05]

Collinear Optical Pumping of Lithium-8 atoms for Nuclear Spin Polarization / PARK Sung Jong, SHIN Taeksu, KIM Yong Kyun(Institute for Basic Science.)

JG-15 [15:05-15:20]

Vibrational Noise Removal Method for the Multi-photon Interferometer of an Optical Loop System / 김봉준, 강훈수(광주과학기술원, 고등광기술연구소.)

[JP1] 원자및분자물리학과회/광학및양자전자학과회 Pioneering Symposium: 빛과 원자를 위한 공방

2014년 10월 23일 목요일 16:00 – 17:00

장소: 컨벤션홀 308/309

좌장: 안재욱 KAIST

JP-01(초) [16:00-16:30]

Designer photons for designed bound and free electron wave-packets / BAUMERT Thomas(Universitaet Kassel, Physik.)

JP-02(초) [16:30-17:00]

Recent surprises in ultrashort-laser-pulse measurement / TREBINO Rick(Georgia Tech, Physics.)

[JP2] 원자및분자물리학과회/광학및양자전자학과회 Pioneering Symposium: 빛과 원자를 위한 공방

2014년 10월 23일 목요일 17:00 – 18:00

장소: 컨벤션홀 308/309

좌장: 정영욱 KAERI

JP-03(초) [17:00-17:20]

Generation of the Quiet Bursts of Light / 김정원(카이스트.)

JP-04(초) [17:20-17:40]

Weak and strong measurement of molecular rotation and mass / SCHULTZ Thomas(UNIST, chemistry.)

JP-05(초) [17:40-18:00]

Phase-coded lights for atomic transitions / AHN Jaewook(KAIST, Physics.)

2014년 10월 22일(수) 반도체물리학과회 구두 발표

[KG1] 반도체물리학과회 General Session

2014년 10월 22일 수요일 11:00 - 12:15

장소: 305/306호

좌장: 유재수 경희대

KG-01(초) [11:00-11:30]**효율적인 광포획을 위한 나노구조 제작 및 유기태양전지 응용 / 임정우, 정관수, 유재수(경희대학교, 전자전파공학과.)****KG-02 [11:30-11:45]****Optical studies of phase separation in InGaN layers grown on compliant substrate / KANG Jin-Ho, EBAID Mohamed, RYU Sang-Wan(Department of Physics, Chonnam National University.)****KG-03 [11:45-12:00]****Dielectric function and Phonons of In-Si-O Thin Films: Effect of Nanocrystalline to Amorphous Phase Transition / 이호선, 박준우, 소현섭, 이혜민, 김효중, 김한기(경희대학교.)****KG-04 [12:00-12:15]****Environment-Dependent Electronic Structures of Single-Layer MoS₂ / KIM Yong-Sung(KRISS.)****[KG2] 반도체물리학과회 General Session**

2014년 10월 22일 수요일 13:30 - 14:30

장소: 305/306호

좌장: 최수봉 인천대

KG-05* [13:30-13:45]**InGaN/GaN Multi-quantum Well Nanowire Heterostructures for Photoelectrochemical Water Splitting Applications / EBAID Mohamed, 강진호, 류상완(전남대학교 물리학과.)****KG-06* [13:45-14:00]****Temperature Dependence Of The Radiative Recombination Time In ZnO Nanorods Under An External Magnetic Field Of 6 T / 김광석, 이우진¹, KIBA Takayuki², MURAYAMA Akihiro², SARTEL Corinne³, SARTEL Vincent³, 김인홍⁴, TAYLOR Robert A.⁵, 조영달⁶(부산대학교 인지메카트로닉스공학과, 물리교육과, 유전체물성연구소, ¹부산대학교 인지메카트로닉스공학과, ²Hokkaido University, Graduate school of Information Science and Technology, ³CNRS-UVSQ, GEMAC, ⁴부산대학교 물리학과, ⁵University of Oxford, Clarendon Laboratory, ⁶광주과학기술원 정보통신공학부.)**

KG-07* [14:00-14:15]

Effect of Boron Nitride passivation on AlGaIn GaN High Electron Mobility Transistors / SUH Eun-Kyung, LEE Gun Hee¹, PARK Ah Hyun¹, KIM Myung Jong², SEO Tae Hoon²(전북대학교 반도체과학기술학과. ¹전북대학교 반도체화학공학부. ²한국과학기술연구원 전북분원 소프트웨어신소재연구센터.)

KG-08* [14:15-14:30]

Improvement of electrical characteristic of InGaZnO thin film transistor by combined post processing of hydrogen irradiation and low temperature annealing / HYUN-WOO Park, MIN-JUN Choi, KWUN-BUM Chung(Division of Physics and Semiconductor Science, Dongguk University, Seoul 100-715, Korea.)

[KT1] 반도체물리학회 Tutorial: 에너지 및 센싱 소자를 위한 나노 구조

2014년 10월 22일 수요일 15:00 – 16:45

장소: 305/306호

좌장: 정 권 범 동국대

KT-01(초) [15:00-16:45]

에너지 및 센싱 소자를 위한 나노 구조 / 유재수(경희대학교 전자전파공학과.)

2014년 10월 23일(목) 반도체물리학회 구두 발표

[KF1] 반도체물리학회 Focus Session: 광전소자 응용을 위한 콜로이드 양자점

2014년 10월 23일 목요일 09:45 – 10:45

장소: 305/306호

좌장: 김 용 민 단국대

KF-01(초) [09:45-10:15]

Quantum-dot LEDs for next-generation displays / LEE Changhee (School of Electrical and Computer Engineering, Seoul National University.)

KF-02(초) [10:15-10:45]

Colloidal Quantum Dots and Processes for Display and Lighting Applications / CHAE Heeyeop(School of Chemical Engineering, Sungkyunkwan University (SKKU).)

[KF2] 반도체물리학과회 Focus Session: 광전소자 응용을 위한 콜로이드 양자점

2014년 10월 23일 목요일 11:00 – 12:00

장소: 305/306호

좌장: 김 용 민 단국대

KF-03(초) [11:00-11:30]

양자점 층을 내포하는 실리카 콜로이드의 합성과 응용 / 우경자, 유혜인, 장호성, 김상경(한국과학기술연구원.)

KF-04(초) [11:30-12:00]

Fabrication of highly efficient blue, green, and red electrically-driven quantum dot-light-emitting devices via solution processing / LEE Ki-Heon, KANG Hee-Don, HAN Chang-Yeol, YANG Heesun(Dept. of Materials Science and Engineering, Hongik University, Seoul 121-791, Korea.)

반도체물리학과회 분과총회

2014년 10월 23일 목요일 12:00 – 12:30

장소: 305/306호

좌장: 김 은 규 한양대

2014년 10월 24일(금) 반도체물리학과회 구두 발표

[KP1] 5th KPS-CPS Joint Forum

2014년 10월 24일 금요일 09:15 – 11:30

장소: 305/306호

좌장: 송 진 동 KIST

[09:15-09:30]

Opening ceremony / President of KPS & Chair of Semiconductor physics Div.

KP-01 [09:30-10:00]

MBE growth of III-V based growth of 1D/0D structures for the application to nano photonics / SONG Jin Dong(Center for Opto-Electronic Convergence Systems, KIST, Seoul 136-791, KOREA.)

KP-02 [10:00-10:30]

Towards quantum computing and quantum networking with solid-state single spins and single photons / LU Chao-Yang(University of Science and Technology of China, Hefei, 230026, P. R. China.)

KP-03 [10:30-11:00]

Strongly enhanced quantum dot spontaneous emission rate by self-aligned three-dimensional plasmonic nanofocusing /

GONG Su-Hyun, KIM Je-Hyung, KO Young-Ho, RODRIGUEZ Christophe, SHIN Jonghwa¹, LEE Yong-Hee¹, DANG Le Si², ZHANG Xiang³, CHO Yong-Hoon(Department of Physics and KI for the NanoCentury, KAIST, Daejeon, 305-701, Republic of Korea. ¹Department of Materials Science and Engineering and KI for the NanoCentury, KAIST, Daejeon, 305-701, Republic of Korea. ²Univ. Grenoble Alpes and CNRS, Inst Néel, F-38042 Grenoble, France. ³Nanoscale Science and Engineering Center, 3112 Etcheverry Hall, University of California at Berkeley, Berkeley, CA 94720, USA.)

KP-04 [11:00-11:30]

L_n slot photonic crystal microcavity for refractive index gas sensing / LI Kezheng, LI Juntao, SONG Yanjun, FANG Guisheng, JIN Chongjun(State Key Laboratory of Optoelectronic Materials and Technologies, School of Physics and Engineering, Sun Yat-sen University, Guangzhou 510275, China.)

Lunch & Photo time

2014년 10월 24일 금요일 11:30 – 13:00

장소: 305/306호

[KP2] 5th KPS-CPS Joint Forum

2014년 10월 24일 금요일 13:00 – 15:00

장소: 305/306호

좌장: 송진동 KIST

KP-05 [13:00-13:30]

Preparation of graphene by low-energy cluster-ion implantation / FU Dejun(Key Laboratory of Artificial Micro- and Nano-Materials of Ministry of Education, School of Physics and Technology, Wuhan University, 430072 Wuhan, China.)

KP-06 [13:30-14:00]

Structural and optical properties of graphene quantum dots and device applications / CHOI Suk-Ho(Dept. of Applied Physics, Kyung Hee University, Yongin 446-701, Korea.)

KP-07 [14:00-14:30]

High temperature superconductivity in one unit-cell FeSe films on SrTiO₃ / WANG Lili, MA Xucun, XUE Qi-Kun(State Key Lab of Low-Dimensional Quantum Physics, Department of Physics, Tsinghua University, Beijing 100084, China.)

KP-08 [14:30-15:00]

Ultrafast all-optical modulator of metal-hybrid quantum dots / KYHM K.(Department of Nano-Fusion, Department of Physics Education, Graduate School of Cogno-mechatronics, Pusan Nat'l University, 609-735, Busan, South Korea.)

2014년 10월 23일(목) 천체물리학분과회 구두 발표

[LG1] 천체물리학분과회 General Session

2014년 10월 23일 목요일 11:00 – 12:45

장소: 206호

좌장: 이 정 재 대전대

LG-01(초) [11:00-11:30]**The effect of gravity on matter equation of state** / KIM Hyeong-Chan(한국교통대학교.)**LG-02 [11:30-11:45]****Gravitational radiation captures of two point-like objects in Post-Newtonian approximations** / KANG Gungwon(KISTI.)**LG-03 [11:45-12:00]****Collapse of supermassive stars** / KIM Hee Il, LEE Hyung Mok¹(Seoul National University/KISTI. ¹Seoul National University.)**LG-04 [12:00-12:15]****Instability of Black Holes with a Nonminimally Coupled GB Term** / GWAK Bogeun, AHN Wha-Keun, LEE Bum-Hoon¹, LEE Wonwoo(Center for Quantum Spacetime, Sogang University. ¹Center for Quantum Spacetime and Department of Physics, Sogang University.)**LG-05 [12:15-12:30]****Dynamics of a vortex with gravitation** / LEE Wonwoo, LEE Bum-Hoon¹, YEOM Dong-han², MACKENZIE Richard³, PARANJAPE Manu B.³, YAJNIK U. A.⁴(CQeST, Sogang University. ¹CQeST and Sogang University. ²YITP, Kyoto University. ³Université de Montréal. ⁴Department of Physics, Indian Institute of Technology Bombay.)**LG-06 [12:30-12:45]****Primordial Gravitational Waves And CMB Polarization: Rescattered EM Radiation For BICEP2 Detection** / 김동훈, TRIPPE Sascha¹(이화여자대학교, 기초과학연구소, ¹서울대학교, 천문학과.)

[LP1] 천체물리학분과회/입자물리학분과회 Pioneering Symposium

2014년 10월 23일 목요일 14:00 – 15:45

장소: 201/202호

좌장: Carsten Rott 성균관대

LP-01 [14:00-14:10]

Discovery and origin of high-energy neutrinos / 로트 카르스텐

(Sungkyunkwan University, Physics Department.)

LP-02 [14:10-15:10]

Neutrino Astronomy, no longer a dream / FRANCIS Halzen(UW

Madison.)

LP-03 [15:10-15:45]

Search of highest energy neutrinos / SHIGERU Yoshida(Chiba

University.)

[LP2] 천체물리학분과회/입자물리학분과회 Pioneering Symposium

2014년 10월 23일 목요일 16:00 – 17:40

장소: 201/202호

좌장: Carsten Rott 성균관대

LP-04 [16:00-16:25]

Unveiling the Origin of High-Energy Neutrinos Observed by

IceCube / IOKA Kunihiro(KEK, Japan.)

LP-05 [16:25-16:50]

PeV Neutrinos in IceCube / ISHIHARA Aya(Chiba University.)

LP-06 [16:50-17:15]

High Energy Cosmic Ray Physics from the ISS-CREAM mission /

PARK Il Hung(성균관대학교(SKKU).)

LP-07 [17:15-17:40]

UHECR Source Search / 김항배(한양대학교.)

천체물리학분과회 분과총회

2014년 10월 23일 목요일 17:45 – 18:00

장소: 206호

좌장: 박 일 흥 성균관대

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[LG2] 천체물리학분과회 General Session

2014년 10월 24일 금요일 09:00 – 10:30

장소: 206호

좌장: 이 형 원 인제대

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

How to Utilize Gravitational Waves for Astrophysics? / 김정리, 김정초¹, 이형원¹(경희대학교, KISTI, ¹인제대학교)

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

MTEL-2(MEMS Telescope for Extreme Lightning-2)/RELEC Instrument: Current Status & Space data / 전진아, 박일흥¹, 이직¹(성균관대학교, 기초과학연구소, ¹성균관대학교, 물리학과.)

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

Parameter Estimation of Gravitational-Wave Signals: BH-NS and BH-BH Inspirals / KIM Jeongcho, LEE Hyung Won, KIM Chunglee¹(Inje University, ¹SNU, KISTI, KHU.)

LG-10* [09:45-10:00]

Thermodynamics of AdS-Schwarzschild Dilatonic Gauss-Bonnet Black Hole with Various Topological Structures in 4-dimension / KHIMPHUN Sunly, LEE Bum-Hoon¹, LEE Wonwoo²(Sogang University, ¹CQeST and Sogang University, ²CQeST, Sogang University.)

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

Top and Bottom Counting Detectors for the ISS-CREAM experiment / PARK J.M., KIM H.J., PARK H., HWANG Y.S., KANG K.H., JEON H.B., ANDERSON T.¹, COUTU S.¹, IM S.¹, ANGELASZEK D.², COPLEY M.², HAN J.H.², HUH H.G.², KIM K.C.², KWASHNAK K.², LEE M.H.², LUTZ L.², MALININ A.², OFOHA O.², PATTERSON P.², SEO E.S.², WU J.², YOON Y.S.², BAEK S.J.³, JEONG I.S.³, LEE J.³, PARK I.H.³, BAYLON J.⁴, MENCHACA-ROCHA A.⁴, LINK J.T.⁵, MITCHELL J.W.⁶, NUTTER S.⁷, HYUN H.J.⁸, KAH D.H.⁹(Kyungpook National University, ¹Pennsylvania State University, ²University of Maryland, ³Sungkyunkwan University, ⁴Universidad Nacional Autonoma de Mexico, ⁵NASA GSFC, /CRESST (USRA), ⁶NASA GSFC, ⁷Northern Kentucky University, ⁸Pohang Accelerator Laboratory, ⁹CBRN directorate Agency for defense development.)

LG-12 [10:15-10:30]

Design Camera System To Study Optical Properties Of Antarctic Ice To Calibrate IceCube Neutrino Telescope / BOSE Debanjan, 김명철(성균관대학교, 물리학과.)

[LT1] 천체물리학분과회 Tutorial

2014년 10월 24일 금요일 11:00 - 12:00

장소: 206호

좌장: 이창환 부산대

LT-01 [11:00-11:30]

CMB Polarization and Inflationary Cosmology (BICEP2 vs Planck) /

이석천(고등과학원.)

LT-02 [11:30-12:00]

우주론에서 중성미자의 역할 / 최기영(천문연구원.)

The Korean Physical Society

포스터발표논문 시간표

2014년 10월 22일 수요일 15:00 - 16:45

장소 : 포스터발표장

P1-B001*

The first law of thermodynamics in Lifshitz black holes revisited
/ KIM Wontae, GIM Yongwan, YI Sang-Heon¹(Department of Physics, Sogang University. ¹Department of Physics, College of Science, Yonsei University.)

P1-B002

Deriving some physical quantities from supersymmetry quantum mechanics / 남순건, 반홍주(경희대학교 물리학과.)

P1-B003

Physical properties of SUSY QM for special potential / 남순건, 조하영(경희대학교 물리학과.)

P1-B004

Search for sterile neutrinos at RENO / 여인성, 김바로, 김승찬, 박령균, 김재률, 소선행, 송숙형, 신창동, 임인택, 주경광, 김시연¹, 고영주¹, 김현수², 김영덕³, 전은주³, 양장희⁴, 유인태⁴, 최영일⁴, 장한일⁵, 박명렬⁶, 최준호⁶, 장지승⁷, 박인곤⁸, 김우영⁹, 선용근⁹, 김상용¹⁰, 김수봉¹⁰, 박정식¹⁰, 서선희¹⁰, 서현관¹⁰, 이동하¹⁰, 이병훈¹⁰, 이순규¹⁰, 최선희¹⁰, 최원국¹⁰(전남대. ¹중앙대. ²전북대. ³BS/세종대. ⁴성균관대. ⁵서영대. ⁶동신대. ⁷광주과학기술원. ⁸경상대. ⁹경북대. ¹⁰서울대.)

P1-B005

Cut Optimization Study in VBF Off-shell Higgs \rightarrow WW \rightarrow llnunu Production / NAM Soon-Kwon, KROPIVNITSKYAYA Anna, KIM JungMin, KIM TaeHoon, NAM YeonSeo(Kangwon National University.)

P1-B006

J/ψ Reconstruction And Analysis At 8 TeV / KONG Byungyun, BAEK Yongwook¹, DUPIEUX Pascal², OH Sun Kun(Konkuk University. ¹Gangneung-Wonju National University, Konkuk University. ²Univ. Blaise Pascal Clermont-Fe. II.)

P1-B007

Dark Matter Search associated with monotop production via leptonic decay of top quark in pp collisions / 정남균, 김동희, 오영도(경북대학교 물리학과.)

P1-B008

Dark Matter Search associated with monotop production via hadronic decay of top quark in pp collisions / 최재윤, 김동희, 오영도(경북대학교 물리학과.)

P1-B009

Study of Low-mass tail effect from PDF at heavy mass of W_{prime}
/ 이정은, 양유철, 김동희, 오영도(경북대학교 물리학과.)

P1-B010*

Inclusive $B \rightarrow X_s \gamma$ Study using Hadronic Tagging Method at Belle / KIM Hanjin, KWON Youngjoon(Dep. of Physics, Yonsei Univ.)

P1-B011*

A study of $B^0 \rightarrow l^+ \tau^-$ using Hadronic Tagging Method / 허준형, 박찬석, 육영민, 김한진(연세대학교 물리학과.)

P1-B012

Study of a Reconstruction Method for observation of $5\text{-}\gamma$ event from $K^0 \rightarrow \pi^0 + \pi^0 + \gamma$ / 고재우, 김용주, 우종관, LIU Dong, 김은주¹, 이수경¹, 안정근², 백광윤³, NI Andrey⁴(제주대학교 물리학과. ¹전북대학교 사범대학 물리교육. ²고려대학교 물리학과. ³부산대학교 물리학과. ⁴전북대학교 융합 과학연구소.)

P1-B013

New Particle Search in $B^0 \rightarrow K^+(\pi^+)\pi^- X^0$ / HYUN H.J., KANG K.H.¹, KIM H.J.¹, KIM M.J.¹, PARK H.¹, CHEON B.G.², CHO K.H.³, CHOI S.K.⁴, CHOI Y.I.⁵, KIM J.H.³, KIM S.K.⁶, KO B.R.⁷, KWON Y.J.⁸, MASAYA I.⁸, OLSEN S.⁹, PARK C.W.⁵, UNNO Y.², WON E.I.⁷(Pohang Accelerator Laboratory. ¹Kyungpook National University. ²Hanyang University. ³Korea Institute of Science and Technology Information. ⁴Gyeongsang National University. ⁵Sungkyunkwan University. ⁶Seoul National University. ⁷Korea University. ⁸Yonsei University. ⁹Institute of Basic Science.)

P1-B014

Study on the background of SBL prototype detector / KIM Jinyu, JEON Eun Ju¹, KIM Yeong Duk¹, LEE Jaison¹, LEE Jeong-Yeon¹, PARK Hyang Kyu¹, PARK Kang Soon¹, KHAN Nasir¹, KIM Ba Ro², JOO Kyung Kwang², KIM Seung Chan², YEO In Sung², KIM Hong Joo³, LEE Joo Young³, MA Kyung Ju, HAN Bo Young⁴, SUN Gwang Min⁴, KIM Siyeon⁵, KO Young Ju⁵, KIM Hyun Soo⁶, SEO Kyung Min⁶, YEO Kang Mo⁶, KANG Jeong Su⁷, PARK Hyeon Seo⁷(Department of Physics, Sejong University. ¹Center for Underground Physics, Institute for Basic Science. ²Department of Physics, Chonnam National University. ³Department of Physics, Kyungpook National University. ⁴Neutron Science Division, Korea Atomic Energy Research Institute. ⁵Department of Physics, Chung Ang University. ⁶Department of Physics, Chonbuk National University. ⁷Korea Research Institute of Standards and Science.)

P1-B015

Background Simulation for KIMS-Nal Experiment / OH Seung-Yoon(Sejong University, Dept. of Physics.)

P1-B016*

Study about top quark mass measurement using J/psi in-jet at LHC / 류건모, 김지현(서울시립대학교 물리학과.)

P1-B017

Measurement of neutron capture time on hydrogen / 신창동, 김바로, 김승찬, 박령균, 김재률, 소선행, 송숙형, 여인성, 임인택, 주경광, 김우영¹, 선용근¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 김상용⁶, 김수봉⁶, 박정식⁶, 서선희⁶, 서현관⁶, 이동하⁶, 이병훈⁶, 이순규⁶, 최선희⁶, 최원국⁶, 양장희⁷, 유인태⁷, 최영일⁷, 김영덕⁸, 전은주⁸, 김현수⁹, 김시연¹⁰, 고영주¹⁰(전남대학교, ¹경북대학교, ²경상대학교, ³광주과학기술원, ⁴동신대학교, ⁵서영대학교, ⁶서울대학교, ⁷성균관대학교, ⁸BS/세종대학교, ⁹전북대학교, ¹⁰중앙대학교.)

2014년 10월 22일 수요일 15:00 – 16:45

장소: 포스터발표장

진행위원: [표면/계면/나노물질, D001~D024] 강세중(고려대)

[바이오물질/무른물질/유기물, D025~D043] 이광록(GIST)

P1-D001

The study on Fe ionic state of perovskite-type $\text{Ba}_2\text{Ca}_{0.67}\text{Fe}_{0.33}\text{NbO}_{6-\delta}$ using In-situ x-ray photoelectron spectroscopy (XPS) as a function of temperature. / BAE Jong-Seong, KIM Jong Pil, JEONG Euh Duck, KAN Wang Hay¹, CHEN Min¹, THANGADURAI Venkataraman¹(Division of High Technology Materials Research, Korea Basic Science Institute. ¹Department of Chemistry, University of Calgary.)

P1-D002

3-omega 방법을 이용한 온도에 따른 $\text{Gd}_2\text{Zr}_2\text{O}_7$ 박막의 열전도도 및 계면 열저항 연구 / 광지혜, 강준규, 양호순, 홍경수¹(부산대학교 물리학과. ¹한국기초과학지원연구원 부산센터.)

P1-D003

Study of London dispersion forces using DFT for bulk solids with BCC, FCC, and diamond structures / PARK Jinwoo, YU Byung Deok¹, HONG Suklyun(Graphene Research Institute and Department of Physics, Sejong University, Seoul 143-747, Korea. ¹Department of Physics, University of Seoul, Seoul 130-743, Korea.)

P1-D004

Fabrication of high-quality single-crystal Cu thin films using radio-frequency sputtering / 정세영, 김지영¹, 이승훈², 이태우³, 김원경⁴, 조용찬⁵, 황철성⁶(부산대학교 인지메카트로닉스공학과. ¹울산과학기술대학교. ²고려대학교 기초과학연구소. ³KAIST 중앙분석센터. ⁴부산대학교 인지메카트로닉스 공학과. ⁵부산대학교 단결정은행 연구소. ⁶서울대학교 재료공학부.)

P1-D005

Ca-induced quantum well states of graphene / 박희민, 성시진, 이팽로, 김진걸, 류민태, 정진욱(포항공과대학교, 물리학과.)

P1-D006

Orbital Angular Momentum Study In Pt-based Catalyst Using ARPES / 김창영, 정종근, 김범영, 진태원¹, 심지훈¹, MASASHI Arita², KENYA Shimada², 문봉진³(연세대학교 물리학과. ¹Postech 화학과. ²HSRC. ³GIST 물리학과.)

P1-D007

RF Magnetron Sputtering법에 의한 금속기판에 증착한 (ZrO₂)₅₀(TiO₂)₅₀박막의 절연 특성연구 / 최명규, 배강, 김동영, 손선영¹, 김화민(대구가톨릭대학교 전자디스플레이공학과, ¹포항공대 미래IT혁신연구소.)

P1-D008

Theory of Optical-Second-Harmonic Generation from Al Metal Surfaces / LEE Kyungmee(Sunmoon University, Kyungpook National University.)

P1-D009

Carbon (Graphite) – doped LaAlO₃ / SrTiO₃ (001) interface / 송종현, 황인웅, 곽용수, 김진희¹, 장정원²(충남대학교, ¹한국표준과학연구원, ²고려대학교.)

P1-D010

Controlling of the Graphene Electrical properties by doping K+ ions / 김진걸, 성시진, 이평로, 류민태, 박희민, 정진욱(포항공과대학교, 물리학과.)

P1-D011

Enhancement of Spin-Orbit Interaction by Au-adatoms on Graphene / YOO Jung-Woo, PARK Jungmin, JIN Mi-Jin, MODEPALI Vijayakumar, JO Junhyeon(UNIST, 신소재공학.)

P1-D012

Impurity-induced band-bending on Ge(001) surfaces / LYO In-Whan, KIM Min-Seong, KIM Ji-Ho(Physics Dept., Yonsei Univ.)

P1-D013

The Experimental Evidence of Orbital Angular Momentum via Photoemission Spectroscopy on Al(111) Surface / KIM ChangYoung, YOO HanYoung, KIM BeomYoung, HAN GaRam, JUNG Jonkeun, ARITA Masashi¹, SHIMADA Kenya¹(Yonsei University, Physics department. ¹Hiroshima Synchrotron Radiation Center.)

P1-D014

다양한 환경 (O₂, Air, N₂, Vacuum)에서의 후열처리에 따른 ZnO 박막의 물성 변화 / 김혜경, 이두용, 김지웅, 이지성, 민태원, 김혜진, 이원재¹, 배종성², 이상근³, 박성균(부산대학교, 물리학과, ¹동의대학교, 융합부품공학과, ²한국기초과학지원연구원, 부산센터, ³(주)필로스톤.)

P1-D015*

Ultrafast carrier dynamics in the topological insulators Bi₂Te₃ and Sb₂Te₃ thin film / CHOI Hyejin, JUNG Seonghoon¹, KIM Taehyeon, PARK Jaehun¹, CHAE jimin, JEONG Kwang-Ho, CHO Mann-Ho(Yonsei univeristy,

P1-D016*

In-situ oxidation kinetics of silver by intense hard x-ray induced active oxygen and ozone / NOH Do Young, KIM Jae Myung¹, SEO Okkyun¹(Department of Physics and Photon Science, Gwangju Institute of Science and Technology. ¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology.)

P1-D017*

A study on thin film growth mechanism by sputtering using single-crystal target / PARK Ho-Yeol, LEE Seunghun¹, KIM Won-Kyung, PARK Ji-Hun, RYU Hui-Je², PARK Jun Han³, LEE Tae-Woo⁴, PARK Sang Eon⁵, LEE You-Sil⁶, CHO Yong Chan⁶, JEONG Se-Young(Department of Cogno-Mechatronics Engineering, Pusan National University. ¹The Institute of Basic Science, Korea University. ²Department of Nanomaterials Engineering, Pusan National University. ³Department of Nanofusion Engineering, Pusan National University. ⁴KAIST Analysis center for Research Advancement. ⁵MCLAB company Ltd., Pusan National University. ⁶Crystal Bank Research Institute, Pusan National University.)

P1-D018*

Antiferromagnetic Order in α -phase Si/SiC(0001) / YI Seho, CHO Jun-Hyung(Department of Physics, Hanyang University.)

P1-D019*

ITO/AZO/ITO로 증착한 Index Matching 특성에 관한 연구 / 진익현, 김동영, 서성보, 손선영¹, 김화민(대구가톨릭대학교 전자디스플레이공학과. ¹포항공대 미래IT혁신 연구소.)

P1-D020*

Roughening and Deroughening of a Plasma-Etched Polymer Interface / BAE Junwan(전북대학교 물리학과.)

P1-D021*

Electronic Properties of Ferromagnetic Doping on Topological Insulator $\text{Cr}_{0.08}(\text{Bi}_{0.1}\text{Sb}_{0.9})_{1.92}\text{Te}_3$ / JUNG HOON Yoo, MIN-SEOK Park, GYOUNGSEOK Lee, SANG HYUN Joo, JAE-JOON Kim, JINHO Lee(Department of Physics and Astron., Seoul National University, Seoul.)

P1-D022*

Flexible 디스플레이 보호층 적용을 위한 무기 복합 박막 $(\text{SiO}_2)(100\text{-X})(\text{SnO}_2)\text{X}$, $(\text{SiO}_2)(100\text{-X})(\text{TiO}_2)\text{X}$ 의 passivation 특성 연구 / 이창현, 배강, 서성보, 손선영¹, 김화민(대구가톨릭대학교, 전자디스플레이공학과. ¹포항공대, 미래IT혁신연구소.)

P1-D023*

Optical Investigation of Bulk and Surface States of Topological Insulators $\text{Bi}_{1.5}\text{Sb}_{0.5}\text{Te}_{1.7}\text{Se}_{1.3}$ / PARK Soon-Hee, HAMH Sun Young, PARK Joonbum¹, KIM Jun Sung¹, LEE Jong Seok(Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST), Gwangju 500-712, Korea. ¹Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea.)

P1-D024*

Surface and Interface States of Bi_2Se_3 Thin Films Investigated by Second Harmonic Generation Techniques / HAMH Sun Young, PARK Soon-Hee, PARK Joonbum¹, KIM Jun Sung¹, CHOI Eunjip², KIM Sung², CHOI Suk-Ho³, OH Seongshik⁴, JEON Jeong Heum⁵, LEE Jong Seok(Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST), Gwangju 500-712, Korea. ¹Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea. ²Department of Physics, University of Seoul, Korea. ³Department of Applied Physics, College of Applied Science, Kyung Hee University, Yongin 446-701, Korea. ⁴Department of Physics & Astronomy, Rutgers, The State University of New Jersey, 136 Frelinghuysen Road, Piscataway, New Jersey 08854, USA. ⁵Department of Physics, Korea University, Seoul, 136-713, Korea.)

P1-D025

Nano-mechanical Interplay of Cancer Cells with Nano-scaffolds / PARK Soyeun(College of Pharmacy, Keimyung University.)

P1-D026

Extension of observation time in diffusing single-molecule and measurement of its FRET dynamics by liposome tethering / 김재열, 김철희, 이남기(포항공과대학교, 물리학과. ¹포항공과대학교, 물리학과 & 시스템생명과학부.)

P1-D027

Co-transcriptional effect on intrinsic dynamics of TPP riboswitch and its transitions induced by ligand binding / UHM Heesoo, HOHNG Sungchul(Department of Physics and Astronomy, Seoul National University.)

P1-D028

Optical Spectroscopy of DNA and DNA-CTMA Films / KIM Jong Hyeon, KONG Byungjoo, PAUSON B., HA Taewoo, SIM Kyung Ik, JO young Chan, LEE Ho Won, OH K., KIM Jae Hoon(Department of Physics, Yonsei University, Seoul 120-749, Republic of Korea.)

P1-D029

Single Molecule Studies on Nucleosome Sliding by CHD1 / HOHNG Sungchul, KIRK Jaewon, LEE Juyeon(Seoul National University.)

P1-D030

Single Molecule Studies on T-phi terminator / HOHNG Sungchul, KANG Wooyoung, UHM Heesoo(Department of Physics and Astronomy, Seoul National University.)

P1-D031

Single Molecule Study on Oligomeric State of Werner Syndrome Protein / SHIN Soochul, LEE Jinwoo, HYUN Kwang-Beom¹, KIM Jaehoon¹, HOHNG Sungchul(Department of Physics and Astronomy, Seoul National University. ¹Department of Biological Sciences, KAIST.)

P1-D032

Removal Process of Mismatched Nucleotides during DNA Mismatch Repair / JEON Yongmoon, MARTIN-LOPEZ JUANA¹, HANNE Jeungphil¹, FISHEL Richard¹, LEE Jong-Bong²(POSTECH, Department of Physics. ¹The Ohio State University, Department of Molecular Virology Immunology and Medical Genetics. ²POSTECH, Department of Physics, Interdisciplinary Bioscience and Bioengineering.)

P1-D033

Super-resolution Imaging of Neuron in Caenorhabditis Elegans / PARK Sangjun, KWON Yeongdae, CHOI Myunggyu¹, LEE Junho¹, HOHNG Sungchul(Department of Physics and Astronomy, Seoul National University. ¹School of Biological Science, Seoul National University.)

P1-D034

Single-Molecule Studies on Helicase Activity of Werner Syndrome Protein / LEE Mina, LEE Jinwoo, BAE Sangsu, KULIKOWICZ Tomasz¹, HONG Heesun, JEONG Hyunseok², KIM Byeang Hyeon², BOHR Vilhelm A.¹, AHN Byungchan³, HOHNG Sungchul(Department of Physics and Astronomy, Seoul National University. ¹National Institute on Aging, National Institutes of Health. ²Department of Chemistry, Pohang University of Science and Technology. ³Department of Life Sciences, University of Ulsan.)

P1-D035*

Observation of director fluctuation in nematic liquid crystal droplets / 백상인, 김성조, 김종현(충남대학교 물리학과.)

P1-D036*

Phase Transition in Block Copolymer-Homopolymer Mixture / KIM hyunjung, AN gukil, KIM ajeong, JEROME carnis, KANG jinback(서강대학교 물리학과.)

P1-D037*

Cisplatin effect on nucleosome DNA / HONG Seok-Cheol, MOON Hyeon-Min, PARK Jin-Sung¹, LEE Ilbuem, LEE Nam-Kyung², SONG Ji-Joon³, LEE kyoung J.(Department of Physics, Korea Univ. ¹Department of Mechanical Engineering, KAIST. ²Department of Physics, Sejong Univ. ³Department of Biological Sciences, KAIST.)

P1-D038*

Dynamic Allosteric control during DNA degradation by lambda exo-nuclease / LEE GWANGROG, PARK SUYEON, YOO JUNGMIN(School of Life Science, Gwangju Institute of Science and Technology.)

P1-D039*

Dynamics of *Saccharomyces cerevisiae* Mph1 Helicase on DNA Fork Structure via FRET / YONGJE Junge(Department of Physics and Astronomy, Seoul National University.)

P1-D040*

NSF disassembles a single SNARE complex in one round of ATP turnover / RYU Je-Kyung, MIN Duyoung, RAH Sang-Hyun, KIM Soo Jin¹, PARK Yongsoo², KIM Ho Min¹, JAHN Reinhard², YOON Tae-Young(Dept. of Physics, KAIST. ¹Graduate School of Medical Science & Engineering, KAIST. ²Department of Neurobiology, Max-Planck-Institute for Biophysical Chemistry.)

P1-D041*

Single-molecule studies on TPP riboswitch with optical tweezer combined with confocal microscope / LEE Jongjin, 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.)

P1-D042*

Single-Molecule Study on Gene Regulation Mechanism of Human Argonaute 2 / SUNGCHUL hohng, MYUNG HYUN Jo, SOOCHUL Shin, SEUNG-RYOUNG Jung, EUNJI Kim¹, JI-JOON Song¹(Seoul National University, Department of Physics and Astronomy. ¹KAIST, Department of Biological Sciences.)

P1-D043*

Solvent Additive Effect on the Morphology of Active Layer in Organic Solar Cell / KIM Ajeong, NGOR SECK Mbaye, AHN Gukil, KANG Jinback, CARNIS Jerome, SHIN Taejoo¹, KIM Jinwoo¹, KIM Hyunjung¹(서강대학교, 물리학과. ¹포항공속기연구소.)

2014년 10월 22일 수요일 15:00 - 16:45

장소: 포스터발표장

P1-E001*

Angle-Resolved Photoemission Spectroscopy on the Embedded Two-Dimensional Free Electron Gas in a Layered Electride Ca_2N / OH Ji Seop, KIM Ye Ji¹, KUO Cheng-Tai, KIM Sung Wng¹, NOH Tae Won, KIM Hyeong-Do(Center for Correlated Electron Systems, Institute for Basic Science, Seoul 151-747, Republic of Korea. ¹Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Republic of Korea.)

P1-E002*

Study on Electrical Properties of Thermal-Wetted Reduced Graphene Oxide / KIM Hyuk Joon, CHO Jang Yean, SHIN Min Kyoon, LIM Jaekwan¹, PARK Sang Yoon(Advanced Institutes of Convergence Technology, Seoul National University, Suwon. ¹Korea Artificial Organ Center, College of Medicine, Korea University.)

P1-E003*

Carbonization of Graphene Oxide-Polymer Nanocomposite Film / CHO Jang Yean, KIM Hyuk Joon, YEO Chang Su, SHIN Min Kyoon, PARK Sang Yoon(Advanced Institutes of Convergence Technology, Seoul National University, Suwon.)

P1-E004*

Total internal reflection ellipsometry를 이용한 EGF R protein과 EGF R aptamer의 결합반응 연구 / 김영동, 강유리, 변준석, 김태중, 박한결, 박재찬, BARANGE Nilesh(경희대학교 물리학과 나노광물성연구실.)

P1-E005*

나노구조 광활성층을 적용한 역구조 유기 태양전지 제작 및 특성 연구 / 여정환, 김준태¹, 조성윤, 이순일, 하나영(아주대학교 에너지시스템학과 물리학전공. ¹아주대학교 나노정보융합연구소.)

P1-E006*

질산 은이 도핑된 탄소 나노입자 용액의 발광 특성 연구 / 하나영, 김태근(아주대학교 에너지시스템학과 물리학전공.)

P1-E007*

나노임프린트된 실리카 솔-젤 박막을 이용한 유기 레이저 제작 및 특성 연구 / 하나영, 배수연(아주대학교 에너지시스템학부 물리학전공.)

P1-E008*

Surface Effect Characterization of Highly Dispersive Three Dimensional Metamaterials / CHANG Tae Yong, SHIN Jonghwa(KAIST.)

P1-E009*

Analysis of Wire-Grid Structures for the High Extraction Efficiency of Light Emitters Using Numerical Simulation / 최민수, 신중화(한국과학기술원, 신소재공학과.)

P1-E010*

유기물-유기물 이중접합 구조 박막의 x-선 산란 및 AFM을 이용한 구조분석 / 김종범, 김상돈, 최준휘, 이동렬(숭실대학교, 물리학과.)

P1-E011*

Nucleation Characteristics of (103)-oriented GaN Twins Grown on Patterned m-plane Sapphire Substrates / 윤한섭, 주미연, 이혜미, 이상화, 김진교(경희대학교, 물리학과.)

P1-E012*

Strained VO2 박막의 상전이 특성 / 김정환, 홍익균, 강만일, 김석원(울산대학교 물리학과, 에너지-하비스트-스토리지 연구센터.)

P1-E013*

Morphological Evolution of Silicon Surface by Laser Irradiation Underwater / SON Joon-Gon, CHOI Jungwon¹, SEO Okkyun¹, KANG HyonChol², NOH Do Young(Gwangju Institute of Science & Technology, Department of Physics and Photon Science. ¹Gwangju Institute of Science & Technology, School of Material Science & Engineering. ²Chosun University, Department of Advanced Materials Engineering.)

P1-E014*

스퍼터링 증착 조건에 따른 텅스텐 박막의 grains size와 전하운송특성의 변화 / 이정섭, 조재훈, 유천열(인하대학교 물리학과.)

P1-E015*

변수화 모델을 이용한 InGaSb 유전율 함수 연구 / 박한결, 김태중, 강유리, 박재찬, 김영동, 신상훈¹, 송진동¹(경희대학교, 물리학과. ¹한국과학기술연구원, 광전 융합시스템 연구단.)

P1-E016*

Change of Morphology and Electrical Properties of (K_{0.5}Na_{0.5})(Mn_{0.005}Nb_{0.995})O₃ Thin Films Induced by Gamma-ray Irradiation / YANG SUNA, BU SANGDON(Department of Physics and Research Institute of Physics and Chemistry, Chonbuk National University, Jeonju 561-756, Republic of Korea.)

P1-E017*

Experimental Realization of a Negative-Density Acoustic Superlens / LEE Sam Hyeon, PARK Jong Jin, LEE K. J. B.¹, PARK Choon Mahn, BOK Eun, LEE Sang Min(Department of Physics, Yonsei University. ¹Department of Physics, Ewha Womans University.)

P1-E018*

Relation between conductivity of individual reduced graphene oxide sheets and local electrical properties using electrostatic force microscopy / JEONG Huiseong, LEE Kyung Moon¹, AHN Yeonghwan, LEE Soonil, PARK Ji-Yong(아주대학교 에너지시스템학부 응용물리 전공. ¹아주대학교 자연과학부 물리학과.)

P1-E019*

Synthesis of large scale of ZnTe nanowire Through a novel one-pot hydrothermal Method and Its Photocatalytic property / KANG Dae Joon, HE Wen(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea.)

P1-E020*

Tuning the transition temperature and hysteresis loop of VO2 thin film / ABBAS Kaleem, KANG Dae Joon¹(Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea. ¹Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea.)

P1-E021

양자점 색변환을 사용한 백색 유기발광 소자 제작 / 김기현, 김태환, 최용훈¹(한양대학교 전자컴퓨터통신공학과. ¹한양대학교 정보디스플레이공학과.)

P1-E022

유기 도판트를 사용한 p-i-n 유기발광소자의 효율 향상 / 이준규, 방요한, 추동철, 김태환(한양대학교.)

P1-E023

Diffusion Mechanics of the MutS and β clamp complex on Mismatched DNA / KIM Daehyung, OH jungsic, LIU Jiaquan¹, SLOBODAN Jergic², DIXON Nicholas¹, RICHARD Fishel¹, JONG-BONG Lee(POSTECH. ¹The Ohio State University. ²University of Wollongong.)

P1-E024

Inertial Microfluidics in Non-rectangular Channels / 이원희, 김정아, 남성민(한국과학기술원 나노과학기술대학원.)

P1-E025

The Effect Of Tilted Posts Of Coordinate Frame In Dose Calculation for GKRS / LIM SA HOE, KIM IN YOUNG, JUNG SHIN, MOON KYUNG SUB, JUNG TAE YOUNG, JANG WOO YOUL(Chonnam National University Hwasun Hospital, Department of Neurosurgery.)

P1-E026

Study of the charge behavior and trapping mechanism in TIPS-pentacene organic device by optical second harmonic generation measurement / BOK Moonjeong, TAGUCHI Dai¹, IWAMOTO Mitsumasa¹, LIM Eunju(Dankook University, Dept. of Applied Physics. ¹Tokyo Institute of Technology, Dept. of Physical Electronics.)

P1-E028

Observation of a Exceptional Point in the Electric Circuit with Operational Amplifiers / 노희소, 강성묵(국민대학교 나노전자물리학과.)

P1-E029

Flexible metamaterial absorber for low frequency utilizing small-size unit cell based on the snake-shape structure / 유영준, 김영주, 정해옥, 이주열¹, 김기원², 강지훈³, 이영백(한양대학교, 물리학과. ¹성균관대학교, 물리학과. ²선문대학교, 정보디스플레이학과. ³국민대학교, 나노전자물리학과.)

2014년 10월 22일 수요일 15:00 - 16:45

장소: 포스터발표장

P1-I001

Flat-type LED 조명시스템용 도광판의 초정밀 레이저 가공을 위한 전산모사 / 박소희, 신용진(조선대학교.)

P1-I002

Pattern array에 따른 도광판의 휘도분포 특성 / 신용진, 박소희(조선대학교.)

P1-I003

산란패턴의 각도에 의한 Edge-type BLU용 도광판의 휘도 및 균일도 분석 / 신용진, 박소희(조선대학교.)

P1-I004

The Analysis of Light Extraction Efficiency in LED Bulb / LEE Kyungmee, LEE Jiyeon, PARK Myungjin, CHOI Seungsoo, KIM Kyungwook, KO Kukwon(Sunmoon University.)

P1-I005

편향법을 이용한 렌즈의 굴절률 분포 측정 / 신상훈, 유영훈¹, 정상원기²(KPS, ¹제주대학교 물리학과, ²전주대학교 전기전자정보통신공학부.)

P1-I006

고순도 (6,5) 단일벽 탄소 나노 튜브에서 관측된 2개의 방사형 호흡 격자 진동모드 / 신성일, 노민영, 주태하¹, J kono², 임용식(건국대학교 나노전자기계공학과, ¹포항공대 화학과, ²라이스대학 컴퓨터공학과.)

P1-I007

Luminescence property of solid-state reaction and high energy ball milling synthesized $\text{CaMoO}_4 : \text{Eu}^{2+}$ phosphor / 홍우태, 이주현, 장형일, 양현경, 정중현¹(부경대학교, 과학기술융합전문대학원, LED융합공학전공, ¹부경대학교, 물리학과.)

P1-I008

Effect of changed host materials on photoluminescence properties of Eu^{2+} doped $\text{MAl}_2\text{Si}_2\text{O}_8$ (M=Ca, Ba, Sr) / 이주현, 홍우태, 장형일, 양현경, 정중현¹(부경대학교, 과학기술융합전문대학원, LED융합공학전공, ¹부경대학교, 물리학과.)

P1-I009*

Two-dimensional Analysis of Ar High-order Harmonic Generation
/ LEE Jisu, TOSA Valer¹, YUN Hyeok², SUNG Jae Hee³, KIM Hyung Taek³,
NAM Chang Hee⁴(KAIST, Department of Physics and Institute for Basic Science,
Center for Relativistic Laser Science. ¹National Institute for R&D Isotopic and
Molecular Technologies. ²Institute for Basic Science, Center for Relativistic Laser
Science. ³Institute for Basic Science, Center for Relativistic Laser Science and GIST,
Advanced Photonics Research Institute. ⁴Institute for Basic Science, Center for
Relativistic Laser Science and GIST, Department of Physics and Photon Science.)

P1-I010

100-kHz High-power Ti:sapphire Laser with Programmable Spectral Control / 성재희, 이성구, 이황운¹, 남창희²(기초과학연구원 초강력 레이저과학 연구단, 광주과학기술원 고등광기술연구소, ¹기초과학연구원 초강력 레이저과학 연구단, ²기초과학연구원 초강력 레이저과학 연구단, 광주과학기술원 물리광학과.)

P1-I011

Fermi resonance in quantum billiard as a mode interaction channel / 이창환, 김지환, 유현혜, 김철민(서강대학교 물리학과.)

P1-I012

Polarization Holographic Grating in D03 Doped PMMA Thin Film
/ WU YANG, KIM SUN IL, SHIM Hyun Kwon¹(Pukyong National University,
Department of Physics. ¹Pukyong National University, Department of Chemistry.)

P1-I014

심장형 마이크로 공진기에서의 단방향 발진 가능성과 그에 따른 품위값 조사 / 고성민, 이인구, 김철민(서강대학교 물리학과.)

P1-I015

비선형 광섬유 굴절률 변화의 주파수 영역 광계측 기법 / 최은서, 이승석, 김주하, 김복현¹(조선대학교 물리학과, ¹광주과학기술원 고등광기술연구소 분광학실험실.)

P1-I016

The Light Intensity Distribution and Interference from the Circular Pinhole Double-Slits / LEE Kyungmee, CHOI Seungsoo¹, KIM Kyungwook¹, PARK Myungjin¹(Sunmoon University, Kyungpook National University. ¹Sunmoon University.)

P1-I017*

Optical Waveform Measurement Using The Interference Of Two Harmonic Beams / 김경승, 남창희¹, 김경택¹(Dept. of Physics, KAIST and Center for Relativistic Laser Science, IBS. ¹Dept. of Physics and Photon Science, GIST and Center for Relativistic Laser Science, IBS.)

P1-I018

Fiber Sensor Based On Fresnel Reflection For Measuring Refractive Indices Of Liquids / 조재영, 김동욱, 김경현, 김예나¹, 김혜주¹, 임지혜¹, 채유나¹(인하대학교 물리학과, ¹해송고등학교.)

P1-I019

MQ grating에 의한 지문모형의 Moire 간섭무늬 해석 / 이재복(충청남도과학교육원.)

P1-I020

4 페타와트 펄스 티타늄사파이어 레이저 개발을 위한 레이저 펄스 증폭 시뮬레이션 연구 / 유제윤, 이황운, 이성구¹, 성재희¹, 남창희²(Center for Relativistic Laser Science, Institute for Basic Science (IBS), Gwangju 500-712, Korea. ¹Center for Relativistic Laser Science, Institute for Basic Science (IBS), Gwangju 500-712, Korea, Advanced Photonics Research Institute, GIST, Gwangju 500-712, Korea. ²Center for Relativistic Laser Science, Institute for Basic Science (IBS), Gwangju 500-712, Korea, Department of Physics and Photon Science, GIST, Gwangju 500-712, Korea.)

P1-I021

경기장 형태 이차원 마이크로 공진기 품위값 변화 / 이지원, 김지환, 이창환, 박규원, 김철민(서강대학교 물리학과.)

P1-I022

Multi-stage broadband optical parametric chirped pulse amplifier as a multi-petawatt laser front-end / 이황운, 성재희¹, 이성구¹, 유제윤, 정지훈², 남창희³(기초과학연구원 초강력 레이저과학 연구단, ¹기초과학연구원 초강력 레이저과학 연구단, 광주과학기술원 고등광기술연구소, ²광주과학기술원 고등광기술연구소, ³기초과학연구원 초강력 레이저과학 연구단, 광주과학기술원 물리광학과.)

P1-I023*

Avoided Crossing in Elliptic Billiards / KIM Ji-Hwan, YI Chang-Hwan, LEE Ji-Won, PARK Gyu-Won(Department of Physics, Sogang University.)

P1-I024

Terahertz Wave Transmission Through 10 nm Gap Array / KIM Dai-Sik, JEONG Jeeyoon, RHIE Jiyeah, BAHK Young Mi(Center for Subwavelength Optics, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea.)

P1-I025*

Self-limiting Dielectric Response in Nanogaps from High-field Terahertz / KIM Joon-Yeon, KANG Bong Joo¹, KIM Won Tae¹, PARK Joohyun², RHIE Jiyeah, BAHK Young Mi, KANG Taehee, JEON Hyeongtag²,

ROTERMUND Fabian¹, KIM Dai-Sik(Center for Subwavelength Optics, Department of Physics and Astronomy, Seoul National University. ¹Department of Physics and Division of Energy Systems Research, Ajou University. ²Division of Materials Science and Engineering, Hanyang University.)

P1-I026*

반사형 LED조명의 연색지수향상을 위한 유전체 박막 코팅설계에 관한 연구
/ 김훈, 김태영, 이상일, 설주환, 윤준호, 함원규, 황보창권, 박선정¹, 조한규¹, 이준원¹(인하대학교, 물리학과. ¹LG전자(주), Lighting사업담당 선행개발팀.)

P1-I027*

Design of Two-Channel Coherent Perfect Absorption Thin Films Using Negative Admittance Matching Method / 김태영, 함원규, 황보창권(인하대학교, 물리학과.)

P1-I028*

Multiple 3-dimensional subwavelength confinement and high refractive index metamaterials by using metallic slot structure
/ LEE In-sung, YANG Jin-Kyu¹, KEE Chul-sik², LEE Joong wook(Department of physics, Chonnam National University, Gwangju 500-757. ¹Department of Optical Engineering, Kongju National University, Kongju, 314-701. ²Center of Subwavelength Optics, Korea.)

P1-I029*

유전체 다층박막을 이용한 반사형 $\lambda/4$ 위상지연자 연구 / 이상일, 김태영, 김훈, 설주환, 윤준호, 함원규, 황보창권(인하대학교, 물리학과.)

P1-I030*

패턴화된 유기물/반도체 복합 구조에서 나타나는 테라헤르츠파 변조 특성
/ PARK Jung-Min, LEE Joong Wook(Chonnam National University, Department of Physics.)

P1-I031*

적분구를 이용한 분광광원 조도 분포의 균일화 / 송치훈, 유재근¹, 박성종², 조재흥(한남대학교, 광센서공학과. ¹과학기술연합대학원대학교, 측정과학. ²한국표준과학연구원, 광도센터.)

P1-I032*

Study of human sclera tissues using THz time-domain spectroscopy / SHIN Dae Cheol, LEE Yong Soo¹, PARK Jung Min, JUNG Gyeong Bok², KIM So Eun¹, KEE Chol Sik¹, KANG Chul¹, LEE Joong Wook(Department of Physics, Chonnam National University, Gwangju 500-757, Korea. ¹Advanced Photonics Research Institute, GIST, Gwangju, 500-712, Korea. ²Department of Biomedical Engineering & Healthcare Industry Research Institute, College of Medicine, Kyung Hee University, Seoul 130-701, Korea.)

P1-I033

태양의 이동과 태양추적시스템의 운동 방정식 연구 / 김성현, 이민환, 박재식, 황인각(전남대학교 물리학과.)

P1-I034

초음파를 이용한 모세관에서의 입자 포획 및 시뮬레이션 / 박재식, 김성현, 이민환, 황인각(전남대학교 물리학과.)

P1-I035*

무인 감시체계를 위한 전방위 광학계 기초설계 / 강종구, 조재흥, 류재명(한남대학교 물리학과, *금오공과대학교 광시스템공학과.)

2014년 10월 22일 수요일 15:00 - 16:45

장소: 포스터발표장

P1-J001

Entanglement of Four-Qubit Rank-2 Mixed States / 정이리, 박대길(경남대학교 전자공학과.)

P1-J002

Magnetized Electron Beam을 이용한 Electron Scattering Cross Section 측정 : Progress Report / 편해욱, 김대철¹, 김용현¹, 최영락¹, 송미영¹, 김영우¹, 윤정식¹, 조혁², SULLIVAN J. P.³, BUCKMAN S. J.³(¹군산대학교/국가핵융합연구소, ²충남대학교, ³Australian National University.)

P1-J003

빛의 비고전성과 얽힘성의 trade-off / 김기식, 장석현, 신종화(인하대, 물리학과.)

P1-J004*

2×25 km 광섬유 기반 간섭계의 위상 안정화 / 곽효민, 김현오, 문한섭(부산대학교, 물리학과.)

P1-J005*

루비듐 원자 D1 전이선에 대한 Sub-Doppler DAVLL 신호 분석 / 최경원, 노흥렬(전남대학교 물리학과.)

P1-J006

Birefringence and Dichroism Spectroscopy for the Jg=0→Je=1 Transition : Analytical Solutions / NOH Heung-Ryoul(Chonnam National University, Department of Physics.)

P1-J007

High harmonic generation of molecule under an extremely short laser pulse / LEE Min-Ho, CHOI NarkNyul, BYUN ChangWoo, KIM Dae-Soung¹(¹금오공과대학교 교양교직과정부, ²경기과학기술대학교 기계자동차학과.)

P1-J008

시간의존 준고전적 터널링 이론의 재고 / 변창우, 이민호, 김대성¹, 최낙렬(금오공과대학교, ²경기과학기술대학교.)

P1-J009

Simulation of Sympathetic Cooling for High-Resolution Mass Measurement / 임강빈, 박영호, 김재천, 윤진우, CHAUDHURI Ankur, 김기동, 김용균(기초과학연구원.)

P1-J010*

Ultrafast manipulation of atomic ground hyperfine sublevel / KIM Hyosub, LEE Hangeol, AHN Jaewook(KAIST, physics.)

P1-J011*

펌프광과 조사광의 비율에 따른 포화흡수분광신호의 분석 / 이상민, 노흥렬¹, 홍현규², 이창복², 임신혁³, 박상언(한국표준과학연구원, 과학기술연합대학원, ¹전남대학교, 물리학과, ²한국표준과학연구원, ³국방과학연구소.)

P1-J012

Microfabrication of Trap Chips as a Scalable Platform for Ion Trap Quantum Information Processing / 조동일, 홍석준, 이민재, 천홍진, 안준식, 김민형¹, 김태현¹(서울대학교 전기정보공학부, ¹SKT Quantum Technology Lab.)

P1-J013

Electromagnetically induced transparency in cold 87Rb atoms coupled by standing-wave / 김중복, 김민석, 김승진, 강석태(한국교원대학교.)

P1-J014

Experimental investigation of lasing threshold near an exceptional point in an asymmetric microjet cavity / SHIN Younghoon, MOON Songky, KIM Soyun, AN Kyungwon(Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea.)

P1-J015*

Fabrication of a microjet nozzle with nanometer-precision using a focused ion beam / KIM, Soyun, KIM Junki, SHIN Younghoon, MOON Songky, AN Kyungwon(Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea.)

P1-J016

Theoretical and experimental analysis of the coherent interaction between two polarized laser beams and a degenerate Zeeman multiplet of 85Rb atoms / REHMAN Hafeez Ur, QURESHI Muhammad Mohsin, NOH Heung-Ryoul¹, KIM Jin-Tae(Department of Photonic Engineering, Chosun University, Korea. ¹Department of Physics, Chonnam National University, Korea.)

P1-J017

Rotating a Bose-Einstein condensate trapped in an anharmonic magnetic potential / KANG Seji, CHOI Jae-Yoon, SEO Sang Won, KWON Woo Jin, SHIN Yong-il(School of Physics and Astronomy, Seoul National University, Seoul 151-742, Korea.)

P1-J018

Analysis of Schrödinger-cat-like states in a phase-controlled cavity-QED microlaser / YANG Daeho, KIM Junki, SONG Younghoon, AN Kyungwon(Department of Physics & Astronomy, Seoul National University, Seoul 151-747, Korea.)

P1-J019

중적외선 영역에서의 고분해 분광용 mW급 중적외선 광원 개발 / 이림, 고광훈, 김용희, 김민호, 박현민, 임권, 차용호, 김택수, 정도영(한국원자력연구원.)

P1-J020

Asymptotic conversion of the GHZ state into pure multipartite states under LOCC at a rate equal to quantum discord / YANG Seungho, JEONG Hyunseok(Department of Physics & Astronomy, Seoul National University, Seoul 151-747, Korea.)

2014년 10월 23일 목요일 11:00 - 12:45

장소: 포스터발표장

P2-B018

The CMS RPCs Condition Monitoring at Point5 / 김동현, 최영일(성균관대학교 물리학과.)

P2-B019

Feasibility study on liquid scintillators using water for a neutrino detector / 소선행, 김봉건, 주경광(전남대학교, 물리학과.)

P2-B020*

Study on Preproduction of Silicon Vertex Detector for Belle II experiment / PARK Hwanbae, JEON Hyebin, HARA Koji¹, HIGUCHI Takeo², HIRIGUCHI Tomohiro³, IWASHITA Tomoko², KANG Kookhyun, KIM Hongjoo, NAKAMURA Katsuro¹, ONUKI Yoshiyuki³, SASAKI Junya³, SATO Nobuhiko¹, SEINO Yoshiaki⁴, SHIMIZU Nobuhiro³, TSUBOYAMA Toru¹, UOZUMI Satoru, YOSHINOBU Toshiki¹(Kyungpook National University. ¹KEK. ²Kavli Institute for the Physics and Mathematics of the Universe. ³The University of Tokyo. ⁴Niigata University.)

P2-B021

Muon Detector Installation at ALICE / KONG Byungyun, BAEK Yongwook¹, DUPIEUX Pascal², OH Sun Kun(Konkuk University. ¹Gangneung-Wonju National University, Konkuk University. ²Univ. Blaise Pascal Clermont-Fc. II.)

P2-B022*

Study of PMT timing for vertex reconstruction at RENO / 김우영, 선용근, 박인곤¹, 장지승², 박명렬³, 최준호³, 장한일⁴, 김상용⁵, 김수봉⁵, 박정식⁵, 서선희⁵, 서현관⁵, 이동하⁵, 이병훈⁵, 이순규⁵, 최선호⁵, 최원국⁵, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 박령균⁸, 김재률⁸, 소선행⁸, 송숙형⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김현수⁹, 김시연¹⁰, 고영주¹⁰(경북대학교. ¹경상대학교. ²광주과학기술원. ³동신대학교. ⁴서영대학교. ⁵서울대학교. ⁶성균관대학교. ⁷IBS/세종대학교. ⁸전남대학교. ⁹전북대학교. ¹⁰중앙대학교.)

P2-B023

Fabrication method for multi-detector operation in AMoRE experiment / 김소라(기초과학연구원.)

P2-B024

A Fitting Method to Separate Slow Signal from Fast Signal for Applying Pulse Shape Discrimination (PSD) / 우종관, 김용주, 고재우.

LIU Dong, 김은주¹, 이수경¹, ANDREY Ni², 백광윤³, 안정근⁴(제주대학교, 물리학과, ¹전북대학교, 과학교육학부, 물리교육, ²전북대학교, 융합과학연구소, ³부산대학교, 물리학과, ⁴고려대학교, 물리학과.)

P2-B025*

Design of a Shielding Room against High Energy Solar Cosmic Rays for Manned Long-term Spaceflights / LIU DONG, KO Jewou, WOO Jong-Kwan, LEE Se Byeong¹(Department of Physics, Jeju National University, ¹Proton Therapy Center, National Cancer Center.)

P2-B026*

Dual phonon sensors for a crystal absorber / 김인욱(서울대학교 물리천문학부.)

P2-B027

PSD in phonon and light sensors using CaMoO₄ absorber / 최준호(서울대학교.)

P2-B028

AMoRE pilot detector and shields / 강찬석(기초과학연구원.)

P2-B029

Belle II Metadata / KIM Jyunghyun, CHO Kihyeon(KISTI.)

P2-B030

A Study of the electron avalanche simulation using the Geant4 for a GEM Detector / CHOI Kijin, RYU Minsang¹, KIM Jihyun, LEE Jason, CHOI Minkyoo, RYU Geonmo, KIM Hyunyoung, JEON Dajeong, HEO Geonwoo, PARK Inkyu(University of Seoul, Department of Physics, ¹Chonbuk National University, Department of Physics.)

P2-B031

Development of metal-loaded liquid scintillators for a neutrino experiment / 김승찬, 주경광, 나상미, 허청(전남대학교 물리학과.)

P2-B032

PSD capability of large scale liquid scintillator detectors for a short baseline reactor experiment / 김바로, 김승찬, 소선행, 송숙형, 여인성, 주경광, 이주영¹, 김홍주¹, 서경민², 여강모², 김현수², 고영주³, 김시연³, 김진유⁴, 마경주⁴, 한보영⁵, 선광민⁵, 강정수⁶, 박현서⁶, 김현욱⁷, 박강순⁷, 박향규⁷, 이재승⁷, 이정연⁷, 전은주⁷, 김영덕⁷, KHAN Nasir⁷(전남대학교, ¹경북대학교, ²전북대학교, ³중앙대학교, ⁴세종대학교, ⁵한국원자력연구원, ⁶한국표준연구원, ⁷기초과학연구원.)

P2-B033*

Heavy Ion Simulation on Geant4 / LEE ChanYoung, KIM KyungHo, CHO KiHyeon¹, KWON YoungJoon(Yonsei Univ., Department of Physics. ¹KISTI.)

P2-B034

An Research and Development for Evolving Architecture for the Beyond Standard Model / CHO Kihyeon, KIM Jyunghyun, RYU Huiyoung(KISTI.)

2014년 10월 23일 목요일 11:00 - 12:45

장소: 포스터발표장

진행위원: [나노-중시계, D044~D073] 장성호(건국대)

[자성체, D074~D093] 김지훈(포스텍)

P2-D044

Quantum forces in free molecular magnets / KIM Gwang-Hee(Sejong University, Dept. of Physics.)

P2-D045

2-D Solid State Hydrogen Molecules in Layered Structure Potassium Intercalated Graphene Oxide / TAEHYUNG KIM, TAEHOON LEE¹, YOUNGHEE LEE²(IBS Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Suwon 440-746. Korea. Department of Physics, Sungkyunkwan University, Suwon 440-746. Korea. ¹IBS Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Suwon 440-746. Korea. Department of Energy Science Sungkyunkwan University, Suwon 440-746. Korea. ²IBS Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Suwon 440-746. Korea. Department of Energy science, Sungkyunkwan University, Suwon 440-746. Korea.)

P2-D046

Optical and Structural characterization of Semiconductor Zn_xCu_{1-x}O nanoparticles / KIM Jong Pil, JUNG-HA Kim, JONG-SEONG Bae, MYOUNG GYU Ha, KYONG-SOO Hong, TAE EUN Hong(한국기초과학지원연구원 부산센터.)

P2-D047

Impedance spectroscopy study of the superprotonic conduction in NaH₂PO₄ / JEON Gi Wan, LEE Kyu Won, LEE Cheol Eui, LEE Kwang-Sei¹(Department of Physics, Korea University, Seoul 136-713. ¹Department of Nano Systems Engineering, Center for Nano Manufacturing, Inje University, Gimhae 621-749.)

P2-D048

Effect of pore size on SiNW deformation during lithium insertion / 김도형, 정진주, 원하연, 정도영(경북대학교 물리학과.)

P2-D049

Theoretical investigations of CO capture in graphene-TM complex / KANG Yura, PARK Jinwoo, JANG Byungryul¹, LEE Hoonkyung¹, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University, Seoul 143-747, Korea. ¹Department of Physics, Konkuk University, Seoul, 143-701, Korea.)

P2-D050

Angle-dependent magnetoresistance of $\text{LaAlO}_3/\text{SrTiO}_3$ heterostructure / 송종현, 곽용수, 황인웅, THACH D.N. Ngo¹, 김진희²(충남대학교 물리학과, ¹과학기술연합대학교, ²한국표준과학연구원.)

P2-D051

Cs encapsulation and interacting noise sources in carbon nanotubes / KIM Sung Won, UHM Tae Woo, YOU Young Gyu, JEONG Goo-Hwan¹, PARK Yung Woo², JHANG Sung Ho(Division of Quantum Phases and Devices, School of Physics, Konkuk University. ¹Department of Advanced Materials Science and Engineering, Kangwon National University. ²Department of Physics and Astronomy, Seoul National University.)

P2-D052

CVD synthesis of graphene with controlled domain sizes on copper substrates / CHO Sangmo, NAM Jungtae, KIM Keun Soo, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University.)

P2-D053

Density functional study of $\text{MoS}_2\text{-WSe}_2$ layered structure / OH Sehoon, BAIK Seung Su¹, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University. ¹Department of Physics and IPAP, Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University.)

P2-D054

Electrical Transport and Thermopower of Iron Telluride(FeTe) / KIM Jung Ho, BAE Jung Jun, LEE Young Hee, LIM Seong Chu(IFS Center for Integrated Nanostructure Physics, Institute of Basic Science (IBS), Sungkyunkwan University.)

P2-D055

Investigation of $\text{Ni}(111)\text{-MoS}_2$ interface using first-principles calculations / MIN Kyung-Ah, CHO Kyeongjae¹, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University. ¹Department of Materials Science and Engineering, The University of Texas at Dallas.)

P2-D056

Photo-Thermoelectric Effect In Single-Layer MoS_2 / LIM Seong Chu, LEE Jinhee, LEE Young Hee(Department of energy science, Sungkyunkwan University.)

P2-D057

Study on the quality of graphene depend on hydrogen pre-treatment in chemical vapor deposition proces / 박상준, 남정태, 이 임복, 배동재, 김근수(세종대학교, 물리학과, 그래핀연구소.)

P2-D058

Effect of non-uniform hybridization in topological Kondo insulator / LEE KI HOON, TAKIMOTO TETSUYA¹(POSTECH/APCTP. ¹Hanyang University.)

P2-D059

Core-shell Silica-coated Iron Oxide Nanoparticles for Magnetic Hyperthermia / RHEE Ilsu, IQBAL Yousaf, BAE Hongsub, AHMAD Ashfaq, HONG Sungwook¹, SOHN Derac²(경북대학교, ¹대구대학교, ²한남대학교.)

P2-D060*

Andreev reflection in Pb-Bi₂Se₃-Pb junction / PARK Sang-Il, KIM Hong-Seok, LEE Joon Sung, DOH Yong-Joo(Korea University Sejong Campus, Department of Applied Physics.)

P2-D061*

Transport Theory and the Dominant Source of Scattering in Multilayer Graphene / MIN hongki, WOO Seungchan(Seoul National University, Department of Physics and Astronomy.)

P2-D062*

Observation of Low Energy Raman Modes in Rolled Graphene / UHM Tae Woo, KIM Sung Won, YOU Yongg Gyu, KIM Hakseong, YUN Hoyoel, YOOU Ho Ang, LEE Sang Wook, JHANG Sung Ho(Division of Quantum Phases and Devices, School of Physics, Konkuk University.)

P2-D063*

Temperature dependence of Graphene's electrical resistance on various substrates / YOU Young Gyu, KIM Sung Won¹, UHM Tae Woo¹, KIM Jin Hyeong¹, KIM Hak Seong¹, YUN Ho Yeol¹, YOON Ho Ang¹, LEE Sang Wook¹, JHANG Sung Ho¹(건국대학교 물리학과 양자상및 소자전공. ¹Division of Quantum Phase and Devices, School of Physics, Konkuk University.)

P2-D064*

A Comparison Of Graphene By Methane And Methanol Precursor In Chemical Vapor Deposition Grown Method / KIM Keunsoo, LEE Imbok, PARK Sangjun, NAM Jungtae, BAE dongjae, HONG Suklyun(세종대학교, 물리학과, 그래핀연구소.)

P2-D065*

Aharonov-Bohm interferometry in high-mobility graphene / KIM Minsoo, LEE Hu-Jong(POSTECH.)

P2-D066*

Development of a pulsed magnet system of a capacitor-discharge type / YOO Kyongjun, KIM Sunghyun¹, JANG Zeehoon¹, KIM Keehoon(Center for Novel States of Complex Materials Research, Department of Physics and Astronomy, and Institute of Applied Physics, Seoul National University, Seoul 151-747, Korea. ¹Department of physics, Kookmin University, Seoul 136-702, Korea.)

P2-D067*

Electrical characterization of van Hove singularities in carbon nanotubes / 최동환, 시미숙, 김주진, 이정오¹, 배명호²(전북대학교, ¹한국화학연구원, ²한국표준과학연구원.)

P2-D068*

Exciton Resonance Effects in Raman Scattering of Few-layer MoS₂ / LEE Jae-Ung, PARK Jaesung, CHEONG Hyeonsik(Department of Physics, Sogang University.)

P2-D069*

Polarization Dependence of Raman Spectra in ABA- and ABC-Stacked Tri-layer Graphene / KIM Minjung, CHEONG Hyeonsik(Department of Physics, Sogang University.)

P2-D070*

Quantum electrical transport properties of topological insulator Bi₂Te₃ nanowires / KIM Hong-Seok, LEE Joon Sung, DOH Yong-Joo, SHIN Ho Sun¹, SONG Jae LYong¹(Korea University Sejong Campus, Department of Applied Physics. ¹Korea Research Institute of Standards and Science.)

P2-D071*

The 2-Dimensional Hall Effect Measurement on ZnO Microwire / YOON Ho Ang, KIM Hakseong, KIM Yeon Soo, PARK Bae Ho, LEE Sang Wook(Division of Quantum Phases & Devices, School of Physics, Konkuk University.)

P2-D072*

Structural, Electronic and Vibrational Properties of Two-Dimensional Phosphorene Oxides: Ab Initio Study / PARK Jejune, KANG Seoung-Hun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University.)

P2-D073*

Origin of Negative Thermal Expansion in sp-sp² Hybridized Carbon Systems / KIM Cheol-Woon, KANG Seoung-Hun, LEE Hyeonsu, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University.)

P2-D074*

계면 변형 유도에 의한 Fe₃O₄ 박막 형성과 그 자기적 특성에 대한 연구 / 국지현, 배유정, 이년중, 김태희(이화여자대학교 물리학과.)

P2-D075*

Formation of Fe₃Si thin films on Si substrates by reactive deposition epitaxy / PHAM Thi Kim Hang, BAE Yu Jeong, LEE Nyun Jong, KIM Tae Hee, ZHANG Hui¹, MIAO Guoxing¹(Department of Physics, Ewha Womans University. ¹Institute for Quantum Computing (IQC), Department of Electrical and Computer Engineering, University of Waterloo, Waterloo, ON, Canada.)

P2-D076*

Magnetic anisotropy of C and N doped bulk FeCo: First principles study / KHAN Imran, SON Jicheol, HONG Jisang(부경대학교 물리학과.)

P2-D077

The Study of Perpendicular Magnetic Anisotropy in Ta(Pt)/CoFeB/AlO_x Layered Structure Using Brillouin Light Scattering / CHO Jaehun, JUNG Jin-Yong, KIM Nam-Hui, KIM June-Seo¹, VAN HOOFF Niels J. J.¹, J. M. SWAGTEN Henk¹, YOU Chun-Yeol(Department of Physics, Inha University. ¹Department of Applied Physics, Center for NanoMaterials, Eindhoven University of Technology.)

P2-D078

얇은 자성 박막에서 단축 변형과 Dzyaloshinskii - Moriya 상호작용을 통해 나타나는 자기벽 유형에 관한 연구 / 강상표, 권희영, 원창연, CHEN Gong¹, WU Yizheng²(경희대학교. ¹NCEM. ²Fudan University.)

P2-D079*

Dzyaloshinskii-Moriya type orbital angular momentum based Hamiltonian / KIM Changyoung, KWON Junyoung, JUNG Wonsig(Yonsei University Institute of Physics and Applied Physics.)

P2-D080*

Optical properties of FeGe thin films / CHO Min hyun, TUAN Duong Anh¹, CHO Sung Lae¹, LEE Yun Sang(숭실대학교, 물리학과. ¹울산대학교, 물리학과.)

P2-D081

원자수준으로 평탄한 강자성/반강자성 이중 박막의 교환바이어스와 보자력 측정 / 김병건, 기상훈, 도중회(경북대학교 물리학과.)

P2-D082*

Thickness and surface-termination dependent magnetism of FeRh(001) thin films: A first principle study / JEKAL Soyoung, HONG Sooncheol, SHICK Alexander B.¹(University of Ulsan, department of Physics. ¹ASCR, Institute of Physics.)

P2-D083

전이금속 치환에 따른 RMn_2O_5 다강체의 자성 및 유전성 변화연구 / 이현성, 조광희, 성기연, 허남정¹, 박순용(중앙대학교, 물리학과. ¹인하대학교, 물리학과.)

P2-D084*

다결정 $\text{Ba}_{1-x}\text{Bi}_x\text{Ti}_{0.9}\text{Fe}_{0.1}\text{O}_3$ 의 전기적 구조와 다강성 변화에 관한 연구 / 김덕현, 이민영, 조한열, 이보화(한국외국어대학교 물리학과.)

P2-D085

Oxygen dependent structural and physical properties in epitaxial SrRuO_3 films / LEE Sang A, HWANG Jae-Yeol¹, JEONG Hoi-Dong², WOO Seong-Min², CHOI Woo-Seok²(Institute of Basic Science, Sungkyunkwan University. ¹Center for Integrated Nanostructure Physics, Institute for Basic Science (IBS). ²Department of Physics, Sungkyunkwan University.)

P2-D086*

Magnetic ordering and excitations of frustrated tetragonal spinel AMn_2O_4 studied by neutron scattering / CHANG Hun, HWANG In-Yong, STEWART Ross¹, CHUNG Jae-Ho(Department of Physics, Korea University. ¹ISIS Facility, Rutherford Appleton Laboratory.)

P2-D087*

Doping-induced Structural Distortion In Tetragonal Spinel Mn_3O_4 / LEE Kee-Hwan, CHUNG Jae-Ho, LEE S. S.¹, KIM S. J.¹(Department of Physics, Korea University. ¹Neutron Science Division, Korea Atomic Energy Research Institute.)

P2-D088

MnF_3 의 외부 자기장에 따른 거시적 자화의 변화와 자기특성 조사 / 최백순, 이순철(KAIST.)

P2-D089

2D Raman correlation analysis of the magnetic excitations in hexagonal RMnO_3 (R=Lu, Ho, Er) / NGUYEN Thi Minh Hien, CHEN Xiang Bai¹, PARK Yeonju², JUNG Young Mee², CHEONG S. W³, LEE D⁴, NOH T.W⁴,

YANG In-Sang(Department of Physics, Ewha Womans University, Seoul, Korea. ¹Department of Applied Physics, Konkuk University, Chungju, Korea. ²Department of Chemistry, Kangwon National University, Chuncheon 200-701, Korea. ³Rutgers Center for Emergent Materials and Department of Physics & Astronomy, Rutgers University, New Jersey, USA. ⁴ReCFI, Department of Physics and Astronomy, Seoul National University, Seoul, Korea.)

P2-D090*

A study on the formation of oxygen vacancy in Co-doped ZnO using maximum entropy / LEE Yeong Ju, PARK Ji-Hun¹, LEE Seunghun², KIM Bum-Su³, BAE Jong-Seong⁴, KUROIWA Yoshihiro⁵, JEONG Se-Young(Department of Nanofusion Engineering, Pusan National University. ¹Department of Cogno-Mechatronics Engineering, Pusan National University. ²Department of The Institute of Basic Science, Korea University. ³Department of Cogno-Mechatronics Engineering, Pusan National University. ⁴Korea Basic Science Institute, Busan Center. ⁵Department of Physical Science, Hiroshima University.)

P2-D091

Sr이 치환된 Z-type hexaferrite의 자기적 특성 / 김현규, 임정태, 이찬혁, 김철성(국민대학교, 물리학과.)

P2-D092

Patterning Magnetic Alloy By Laser-Irradiated Micro-Powders / MINYOUNG Lee, HANYEOL Jo, BOWHA Lee, JIHYUN Sung¹, SANGYOON Park²(Hankuk University of Foreign Studies, Physics. ¹Korea Institute of Industrial Technology, Application Division Ultimate Manufacturing Technology Center. ²Advanced Institutes of Convergence Technology, Nano-Bio Convergence Research Center.)

P2-D093

Temperature-dependent Structural Properties of Diamagnetic HgI₂ / SON Jae Kuan, PARK Chang In, HWANG In Hui, JIN Zhenlan, YEO Soon Mok¹, HAN Sang Wook(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.)

2014년 10월 23일 목요일 11:00 - 12:45

장 소 : 포스터발표장

P2-E030*

Back Contact Interface of $\text{Cu}_2\text{ZnSnS}_4$ Solar Cells Depending on Sulfurization Temperature / NAM Dahyun, YANG Kee-Jeong¹, KANG Jin-Kyu¹, PARK Sang-Wook², JEON Chan-Wook², CHEONG Hyeonsik(Sogang University, Department of Physics. ¹DGIST, Green Energy Research Division. ²Yeungnam University, School of Chemical Engineering.)

P2-E031*

The Effects of Silicon Nitride Anchors in the Silicon Microbeam Resonator / LEE Byeong-Jun, BAEK In-Bok¹, KWON Yi-Seul¹, LEE Bong-Kuk¹, KIM Yarkyeon¹, AHN Chang-Geun¹, YOON Yong-Sun¹, JANG Won-Ik¹, KIM Jwa-Yeon, YU Han-Young¹(Hoseo University, Materials Science & Engineering. ¹Electronics and Telecommunications Research Institute (ETRI).)

P2-E032*

CZTSSe 태양전지의 CBD 조건에 따른 CdS 버퍼층 균일도 비교 / 조소연, 남다현, 손대호¹, 김대환¹, 강진규¹, 정현식(서강대학교, 물리학과. ¹대구경북과학기술원, 차세대융합연구소.)

P2-E033*

박막의 열전도도 측정을 위한 나노초 열반사율 측정 장치 구성 / 홍의균, 김정환, 강만일, 김석원(울산대학교 물리학과 에너지-하비스트-스토리지 연구센터.)

P2-E034*

Polarization independent dual broadband metamaterial absorber / 김영주, 유영준, 이주열¹, 김기원², 이영백(한양대학교 물리학과. ¹성균관대학교 물리학과. ²선문대학교 정보디스플레이학과.)

P2-E035*

Field-Emission Barristors: Gate-Controlled Switching between Direct Tunneling and Fowler-Nordheim Tunneling / LEE Jun-Ho, LEE Han-Byeol, CHOI Doo-Hua, KIM Hyun-Cheol, YOON Ho-Ang, YUN Ho-Yeol, KIM Hack-Sung, LEE Sang-Wook, CHUNG Hyun-Jong(Division of Quantum Phases and Devices, Konkuk University.)

P2-E036*

WS2 두께에 따른 Graphene-WS2 배리스터의 스케일링에 대한 연구 / 최두화, 김현철, 이준호, 이한별, 정내봉, 정현중(건국대학교 이과대학 물리학과 양자상 및 소자 전공.)

P2-E037*

The fabrication techniques of silicon microbeam resonators surrounded by silicon nitride anchors / KWON Yi-Seul, BAEK In-Bok, LEE Byeong-Jun¹, LEE Bong Kuk, KIM Yarkyeon, YOON Yong-Sun, JANG Won-Ik, YU Han-Young(Electronics and Telecommunications Research Institute (ETRI).¹Hoseo University, Advanced Material Engineering.)

P2-E038*

A wide-angle metamaterial perfect absorber at low frequencies / BUI XUAN KHUYEN, BUI SON TUNG, NGUYEN VAN DUNG, YOO Youngjoon, KIM Youngju, LEE Youngpak, VU DINH LAM¹(Department of Physics, Quantum Photonic Science Research Center and RINS, Hanyang University, Seoul, South Korea. ¹Institute of Materials Science, Vietnam Academy of Science and Technology, Hanoi, Vietnam.)

P2-E039*

Dual-band metamaterial perfect absorber in infrared region based on the analogy of electromagnetically-induced-transparency effect / BUI SON TUNG, BUI XUAN KHUYEN, NGUYEN VAN DUNG, LEE YOUNGPAK, JIN XING RI¹, VU DINH LAM²(한양대학교, 물리학과.¹Department of Physics, College of Science, Yanbian University, Yanji, Jilin, China. ²Institute of Materials Science, Vietnam Academy of Science and Technology, Hanoi, Vietnam.)

P2-E040*

Electrohydrodynamic lithography using AC voltage with resonating frequency for sub-100nm regime pattern replication / MOON Choongman, KANG Dae Joon(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea.)

P2-E041*

Synthesis of Layer-controlled Large scale Transition Metal Dichalcogenide Atomic Layer by Sulfurization / HWANG Jaeseok, KANG Dae Joon(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea.)

P2-E042*

ZnO Microwires Shape Modulation based on Growth Rate Control / OH Simgeon, KANG Dae Joon¹(Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea. ¹Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea.)

P2-E043*

Internal Deformation Field Distribution of Zeolite Microcrystals in Gas Environments / KANG Jinback, KIM Hyunjung, CHA Wonsuk,

CARNIS Jerome, AHN Gukil, YOON Kyung Byung¹, PHAM Tung Cao Thanh¹, ROBINSON Ian K.², HARDER Ross³(Sogang University, Department of Physics. ¹Sogang University, Department of Chemistry. ²University College, London, London Centre for Nanotechnology. ³Argonne National Laboratory, Advanced Photon Source.)

P2-E044*

A metamaterial with high scalability / NGUYEN Van Dung, BUI Son Tung, BUI Xuan Khuyen, YOO Youngjoon, LEE Youngpak, VU Dinh Lam¹(Department of Physics, Quantum Photonic Science Research Center and RINS, Hanyang University, Seoul, 133-791, Korea. ¹Institute of Material Science, Vietnam Academy of Science and Technology, Hanoi, Vietnam.)

P2-E045*

Polarized Raman measurements of Few-layer Black Phosphorus / KIM jungcheol, LEE Jae-Ung, CHEONG Hyeonsik(서강대학교 물리학과.)

P2-E046*

Memory Characteristics controlled by Silicon and Cobalt Hybrid Nanostructures / AHN Hanyeol, JOO Beom Soo, GU Minseon, JEONG Jiwoon, HAN Moonup(서울시립대학교 물리학과.)

P2-E047*

다공성실리콘내 산화철나노입자 주입량의 모니터링 방법 / 이주현, 김혁기, 함성길, 김경아, 정다은, 김나경, 이기원(공주대학교 물리학과.)

P2-E048*

다양한 유기증기에 대한 정전식 센서의 감응 특성 / 김혁기, 함성길, 이주현, 김경아, 정다은, 김나경, 이기원(공주대학교 물리학과.)

P2-E049

다중파장 측정이 가능한 실리콘 반도체 광센서 연구 / 이혜영, 전진아, 이직, 박일홍(성균관대학교 기초과학연구소, ¹성균관대학교.)

P2-E050

초소형 우주망원경(MTEL-3)을 위한 다채널 SiPM 소자 어레이의 개발 / 전진아, 이혜영, 이직, 박일홍(성균관대학교, 기초과학연구소, ¹성균관대학교, 물리학과.)

P2-E051

X-ray fluorescence imaging and x-ray absorption spectroscopy study of the Chrysochroa Fulgidissima wing / SUNG Nark-Eon, LEE Ik-Jae, LEE Kuk-Sung, JUNG Sung-hoon, SHIN Yong-Bi¹(Beamline division, Pohang Accelerator Laboratory, POSTECH. ¹Gyeongju National Museum.)

P2-E052

X-선원을 장착한 방사능발광과 광자극발광 통합 측정장치의 개발 / 박창영, 정기수, 장인수¹, 이정일¹, 김장렬¹(경상대학교 물리학과, ¹한국원자력연구원.)

P2-E053

New method to overcome the hysteresis phenomenon of transmittance with applied voltages / 아철성, 송주희, 김태엽, 조성목, 추혜용, 류호준(한국전자통신연구원.)

P2-E054

Investigation of the Preparation Methods for Graphene Oxides as a Transparent Electrode Material / 강영호, 김용재¹, 이광희(전남대학교, 물리교육과, ¹광주과학기술원, 차세대에너지연구소.)

P2-E055

MDPS 모터 결함 판단을 위한 진동 분석 시스템 개발 / 강준희, 이충석, 박한영¹, 김진영², 이지영, 이제곤(인천대학교, ¹에이아이시스템즈, ²이도씨앤에스.)

P2-E056

Switchable Schottky diode induced by dominant interface in Pt/Mn-doped ZnO/Pt sandwiched structure / 남윤승, 윤찬수, 이상익, 전지훈, 이미정, 원은아, 오태준, 오광택, 김연수, 박배호(건국대학교.)

P2-E057

Electric field dependence of magnetotransport properties in molybdenum disulfide / BAEK SEUNGJAE, PARK MIN, HONG SUNG JU, KIM KYUNG HO, KANG HOJIN, PARK YUNG WOO(Seoul National University.)

P2-E058

The role of oxygen vacancies of two-dimensional electron gases at LaAlO₃/SrTiO₃ interface / 오태준, 김연수, 황성문¹, 전지훈, 남윤승, 이상익, 윤찬수, 최택집¹, 박배호(건국대학교, 물리학과, ¹세종대학교, 나노신소재공학과.)

2014년 10월 23일 목요일 11:00 - 12:45

장소: 포스터발표장

P2-F001

Dynamical behavior of multifractal strengths in games / 김경식, 유철환¹(부경대학교, 물리학과, ¹부경대학교, 환경대기학과.)

P2-F002

Statistical track prediction of typhoon using regression analysis / 김경식, 유철환¹(부경대학교, 물리학과, ¹부경대학교, 환경대기학과.)

P2-F003

Dynamical analyses in structures of group correlations / 김경식, 임규성¹, 김수용¹(부경대학교, 물리학과, ¹한국과학기술원, 물리학과.)

P2-F004

Specific Heat of the Self-Avoiding Polymer with Repulsive Interactions / 이재환, 이주련, 김승연¹(송실대학교 의생명시스템학부, ¹한국교통대학교 교양학부.)

P2-F005

All-Atom Simulations of Small Proteins by Using Wang-Landau Algorithm / 김승연, 곽우섭¹(한국교통대학교 교양학부, ¹조선대학교 물리학과.)

P2-F006

Phase Diagram and Critical Exponents of Blume-Capel Model / 김승연, 곽우섭¹(한국교통대학교 교양학부, ¹조선대학교 물리학과.)

P2-F007

Fractal Dimensions of Bridge Bonds in Directed Percolation Models / 강병남, 최상민, 조영설(서울대학교, 물리학과.)

P2-F008

Hydrophobic-Polar Protein Model on a Square Lattice / 이재환, 이주련, 김승연¹(송실대학교 의생명시스템학부, ¹한국교통대학교 교양학부.)

P2-F009*

Election With Spreading Political Opinions Based On Human Migration / JO Woo Seong, KIM Beom Jun(Sungkyunkwan University.)

P2-F010

Evolutionary public goods game on the complete graph and dense complex networks / KIM Jinho, CHAE Huiseing, YOOK Soon-Hyung, KIM Yup(Kyung Hee University.)

P2-F011

Three different patterns of jamming transition with heterogeneous node capacity / 박현준, 최우식, 육순형, 김엽(경희대학교.)

P2-F012

Centrality analysis in street networks of Korea: from classification to model / JUNG Woo-Sung, LEE Byoung-Hwa(POSTECH.)

P2-F013*

Scaling Properties of Phase Transitions in Generalized Epidemics Process / CHUNG Kihong, BAEK Yongjoo, HA Meesoon¹, JEONG Hawoong(Department of Physics, KAIST. ¹Department of Physics Education, Chosun University.)

P2-F014

Meanfield Model For EEG Rhythms And Its Dynamical Response To Time Varying Propofol Concentration / 김승환, 주판규(POSTECH, 물리학과.)

P2-F015

Impact of a Slow Bond on the Scaling Properties of Activity in 1D TASEP / SOH Hyungjoon, BAEK Yongjoo, HA Meesoon¹, JEONG Hawoong(Department of Physics, KAIST. ¹Department of Physics Education, Chosun University.)

P2-F016

Particles in a box with a delta potential / PARK Minho, YI Su Do, BAEK Seung Ki(Department of Physics, Pukyong National University.)

P2-F017*

Prediction of the performance of the similarity index with leave-one-out method: Model study and empirical application / JUNG Woo-Sung, AHN Min-Woo(POSTECH.)

P2-F018*

Network Modeling of the Korean Bus System / JUNG Woo-Sung, HONG Inho(Dept. of Physics, POSTECH.)

P2-F019*

Generalized Epidemic Process on Empirical Time-varying Networks / KIM Hyewon, BAEK Yongjoo, CHUNG Kihong, HA Meesoon¹, JEONG Hawoong (Department of Physics, KAIST. ¹Department of Physics Education, Chosun University.)

P2-F020*

Insight into the selectivity of α Conotoxin BuIA on the nAChR $\alpha 6$ subunit studied by molecular dynamics simulations / PHAN Thi Hong Tham, JO Jiyun, PHAN Thi Tuong Vy, VO Trung Au, TRUONG Gia Khuong, YI Myunggi¹ (Interdisciplinary program of Biomedical engineering, Department of Biomedical engineering, Pukyong National University. ¹Assistant professor, Interdisciplinary program of Biomedical engineering, Department of Biomedical engineering, Center for Marine-Integrated Biomedical Technology (BK21+), College of Engineering, Pukyong National University.)

P2-F021*

Spontaneous conformational change of human angiotensin-I converting enzyme (ACE) studied by molecular dynamics simulation / THI TUONG VY PHAN, THI HONG THAM PHAN, TRUNG AU VO, GIA KHUONG TRUONG, JIYUN JO, MYUNGGI YI¹ (Interdisciplinary Program of Biomedical Engineering, Pukyong National University, Busan 608-737. ¹Assistant Professor, Department of Biomedical Engineering Interdisciplinary Program of Biomedical Engineering, Center for Marine-Integrated Biomedical Technology (BK21+), College of Engineering Pukyong National University, Busan 608-737.)

2014년 10월 23일 목요일 11:00 - 12:45

장소: 포스터발표장

P2-G001

해일(storm surge) 실험장치의 개발과 파형 특성에 관한 연구 / 박종호(진주교육대학교, 과학교육과.)

P2-G002

학습자 중심 수업 운영의 관점에서 현행 과학 교과서의 문제점 분석 / YUN Eunjeong, PARK Yunebae(경북대학교, 물리교육과.)

P2-G003

Experimental Consideration in Primary School Science / KIM Taekyu(Jeonju National University of Education, Department of Science Education.)

P2-G004

물리교육에서 PEPCI 모델을 활용한 발명교육 프로그램 개발 / 이재복, 육근철(충청남도과학교육원, 1공주대학교.)

P2-G005

문제풀이에서 조건 확인과 해석에서 나타나는 학생들의 어려움 분석 및 이의 개선 방향 -전자기학 영역 중심 / 정재훈, 윤성현(한국교원대학교, 물리교육과.)

P2-G006*

전류에 의한 자기장 관련실험과 Idealization에 따른 문제 / 강남화, 임정(한국교원대학교, 물리교육과.)

P2-G007*

절연체와 금속의 반사율 입사각 의존성 비교 및 반사광의 편광위상분석 / 김광석, 김민주¹, 김찬형², 박정섭², 유화준², 유동엽², 이재호², 이창현²(부산대학교 인지메카트로닉스공학과, 물리교육과, 유전체물성연구소, ¹부산대학교 인지메카트로닉스공학과, ²부산과학고등학교.)

P2-G008

Optical gain properties of CdSe/ZnS nanocrystal / 김광석, 장주영¹, 변성철²(부산대학교 인지메카트로닉스공학과, 물리교육과, 유전체 물성연구소, ¹부산대학교 인지메카트로닉스공학과, ²부산과학고등학교.)

2014년 10월 23일 목요일 11:00 - 12:45

장소: 포스터발표장

P2-H001

PAL-XFEL 건물과 지반의 수직변화 측정용 HLS 소개 / 최효진, 서광원, 길계환, 김승환, 강홍식(포항가속기연구소.)

P2-H002

라온 선형가속기의 가속격자 설계 현황 / 장효재, 김형진, 진현창, 장지호, 황지광¹, 오봉훈²(기초과학연구원, ¹경북대학교, ²포항공과대학교.)

P2-H003

Commissioning of a Miniature Material Testing System for X-Ray Micro-Experiments / 길계환, 정맹효, 최효진, 류준길, 임재홍(포항가속기연구소.)

P2-H004

Carbon dioxide Conversion using a Microwave Plasma Torch / KWAK Hyoung Sin, KANG Min Ho, NA Young Ho, UHM Han Sup, HONG Yong Cheol¹(Department of Electrical and Biological Physics, Kwangwoon University. ¹Plasma Technology Research Center, National Fusion Research Institute.)

P2-H005

중수소 RFQ 가속기를 기반으로 한 소형 중성자원 기초 개념 연구 / 조용섭, 권혁중, 김한성, 윤상필(한국원자력연구원, 양성자가속기연구센터.)

P2-H006

Status of PAL-XFEL Project / 강홍식, 김광우, 고인수(포항가속기연구소.)

P2-H007

10 ns 양성자빔 펄스 발생을 위한 Multi-Harmonic Buncher 설계 / 김한성, 권혁중, 조용섭, 설경태(한국원자력연구원, 양성자가속기연구센터.)

P2-H008*

Prototpe Test for Determining the Dimension of C-band Standing-wave Accelerating Sturcture / SHIN Sung Gyun, YANG Haeryong¹, YI Chan Ho, KYE Yong Uk, KIM Sang Hoon², NAMKUNG Won¹, CHO Moohyun(POSTECH. ¹Pohang Accelerator Laboratory. ²Argonne National Laboratory.)

P2-H009

Mode Converter for KSTAR LHCD System / 성태식, 조무현¹, 남궁원², 김지현³(Department of physics, POSTECH. ¹Department of physics and Division of Advanced Nuclear Engineering, POSTECH. ²Pohang Accelerator Laboratory. ³National Fusion Research Institute.)

P2-H010

Electron Density Measurements of Laser Induced Plasma in Air Using Nomarski Interferometer / 오승용, 임창환, 하성용, 김희진, 남성모, 한재민(한국원자력연구원 양자광학연구부.)

P2-H011*

Computational MHD Simulation Based on Hadoop Ecosystem and Heterogeneous Computing / LEE Youngjun, KIM Milhan¹, LEE Chan-Gun¹, PARK Ho-Hyun², HAHN Sang June(Department of Physics, Chung-Ang University, Seoul, Korea. ¹Department of Computer Science and Engineering, Chung-Ang University, Seoul, Korea. ²Department of Electrical and Electronics Engineering, Chung-Ang University, Seoul, Korea.)

P2-H012*

Ultrafast Measurement of X-ray Absorption Spectra of Warm Dense Matter / LEE Jong-won, BAE Leejin, CHO Byoung-ick(Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST).)

P2-H013*

Development of Laser Induced Breakdown Spectroscopic (LIBS) Technique as an In-situ Diagnostic for Fusion Plasma Facing Materials / KIM Minju, CHO byoung-ick(Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST).)

P2-H014

X-ray Tube에서 집속관의 형상에 따른 전자빔 궤적계산 및 초점크기의 분석 / 박태영, 김용진, 하지드마, 이상석(상지대학교 한방의료공학과.)

P2-H015*

Development of Multi-energy Soft X-ray Array Diagnostics on KSTAR / 장주혁, 이승현, 홍주환, 김정희¹, 이현용, 장시원¹, 전태민, 박재선, 최원호(KAIST. ¹NFRI.)

P2-H016*

핵융합 플라즈마 가열용 UHF 고속파 안테나의 새로운 구조 연구 / 위현호, 김해진¹, 왕선정¹, 박병호¹, 이병제(광운대학교, 전자공학과. ¹국가핵융합 연구소.)

P2-H017

Simulation of improvement of klystron efficiency / 황지현, 박성주¹, 남궁원¹, 조무현²(POSTECH, Dept. of physics. ¹Pohang Accelerator Laboratory. ²POSTECH, Dept. of physics and Division of Advanced Nuclear Engineering.)

P2-H018

Aluminum Film Deposition using ECR Plasma Source with Belt-type Magnet Assembly and Slit Antennas / LEE Huijea, KIM Seongbong¹, YI Changho, PARK Seungil¹, YOO Suk Jae¹, CHO Moohyun², NAMKUNG Won³(Dept. of Physics, POSTECH. ¹National Fusion Research Institute. ²Dept of physics and division of advanced nuclear engineering, POSTECH. ³Pohang Accelerator Laboratory.)

P2-H019

C-band형 가속관을 이용한 엑스선 발생선원을 위한 고주파전송로 및 진공 시스템 구축 / 노성진¹, 강상구¹, 이준규¹, 강영록¹, 이만우¹, 이무진¹, 정동혁¹, 양광모¹, 신성균¹, 양해룡¹, 조무현¹, 남궁원¹, 임희진¹(동남권원자력의학원/인제대학교 의용공학과. ¹동남원자력의학원 연구센터.)

P2-H020

KOMAC 양성자가속기 방사성동위원소생산용 빔라인 기초설계 연구 / 권혁중, 김한성, 박성균, 조용섭(한국원자력연구원, 양성자가속기연구센터.)

P2-H021

Rear side ion shock acceleration from a destructed target / 허민섭, 김영국, 조명훈, 박형주¹, 정문연¹(UNIST. ¹ETRI.)

P2-H022

Simulation Study of Table-Top X-Ray Source Using Modulated Free-Electron-Laser with Capillary Laser-Plasma Accelerator in Water Window Regime / 김진주, 김민석, 남인혁, 석희용(광주과학기술원.)

2014년 10월 23일 목요일 11:00 - 12:45

장소: 포스터 발표장

P2-K001*

Temperature-Dependent Photoluminescence and Raman Spectra of Single- and Multi-Layer MoS₂ / 장찬욱, 김주환, 신동희, 김성, 최석호, 박준우, 이호선, 이창구¹(경희대 응용물리학과, ¹성균관대학교.)

P2-K002*

Lamination 방법에 의해 투명하고 유연한 기판 위에 전사된 그래핀의 전기적 및 광학적 특성 연구 / 이대훈, 김종민, 이경원, 김성, 최석호(경희대 응용물리학과.)

P2-K003*

Nanosphere lithography 방법을 이용한 그래핀 양자점의 제작 및 구조적, 광학적 특성 연구 / 오시덕, 김정길, 이대훈, 강수석, 김성, 최석호(경희대 응용물리학과.)

P2-K004*

in-situ analysis of sputtered-deposited amorphous In-Ga-Zn-O thin-film surface with different oxygen contents / 강세준, 백재윤¹, 신현준¹(포항공과대학교, 물리학과, ¹포항가속기연구소, 물리소재연구팀.)

P2-K005*

Environmental Limitation to Electrical Characteristics of MoS₂ Transistor by Surface Adsorption / DONGRI Qiu, DONG UK Lee, EUN KYU Kim(Hanyang University, Department of Physics.)

P2-K006

HRXRD를 이용한 사파이어 웨이퍼의 휨 분석 / 김창수, 최민혁, 정인영¹, 전현구¹, 정양수²(한국표준과학연구원, ¹한국표준과학연구원, 충남대학교, ²충남대학교.)

P2-K007

TEM Analysis for CuS, MoS₂ and GaSe Nanoparticles / JANG youngrae(KAERI, Neutron Science Division.)

P2-K008

공정 변화를 통한 탄소 나노튜브 기반의 센서 제작효율 향상 / 이제행, 변영태, 김재성, 김선호, 김신근(한국과학기술연구원, 센서시스템 연구센터.)

P2-K009

Undoped 및 Er doped $MgGa_2O_4$ 결정의 광학적 특성 / 최성휴, 방태환, 김찬빈¹, 변상섭¹, 임재홍¹, 윤영식¹(조선대, 물리학과, ¹해릉고등학교.)

P2-K010

High-k 물질을 절연층으로 사용한 MOSFET의 절연층 내부의 트랩 전하 분포의 변화에 따른 전기장과 전하밀도 / 이준규, 정현수¹, 김태환(한양대학교 융합전자공학부, ¹한양대학교 전자컴퓨터통신공학부.)

P2-K011*

그래핀 코팅된 기판 위에 Drop-casting 방법을 이용하여 자가 형성된 폴리아닐린/탄소나노튜브 나노복합 전극 / 임현식, 한재석, 손재상, INAMDAR akbar, 조상은, 조용철, 김종민, 우현석, 박우영, 김인호, 김기강¹, 김형상(동국대학교 물리반도체학과, ¹동국대학교 융합에너지 신소재공학과.)

P2-K012*

Resistive switching mode transformation in Cr-doped $SrZrO_3$ -based ReRAM device / IM hyunsik, JO yongcheol, JUNG Kyoocho, KIM jongmin, WOO hyeonseok, KIM inho, PARK wooyoung, LEE jongkyung, CHO hansol, CHO sangeun, HAN jaeseok, INAMDAR A. I., PAWAR S. M., KIM hyungsang(Dongguk University, Division of Physics and Semiconductor Science.)

P2-K013*

Temperature dependent of carrier transport of WSe_2 with various metal contacts / LIM Seong Chu, LEE Young Hee, CHOI Homin, YUN SeoukJun(Department of energy science, Sungkyunkwan University.)

P2-K014*

Optical Property Of Laser Annealed Indium Tin Oxide Thin Films / NOH Miru, LEE Yunsang, KIM Hunkjin¹, JANG Youngjun¹, PARK Jonghyouck²(Soongsil University, Department of Physics. ¹University of Seoul, Department of Physics. ²Electronics and Telecommunications Research Institute.)

P2-K015*

산소 열처리를 이용한 AlGaIn/GaN 쇼트키 다이오드의 턴온전압 감소 및 누설전류 억제 / 우현석, 이종경¹, 조용철¹, 한재석¹, 김종민¹, 조한솔², 노정현², 이준호², 한철구², 임현식¹(동국대학교/전자부품연구원, ¹동국대학교, ²전자부품연구원.)

P2-K016*

Stepwise Transition from the Bipolar Field Effect to the Unipolar Thermal Effect via Complementary Resistive Switching in a Pt/ SiO_x /TiN Stack / LIM Dong Hyeok, SONG Jin Ho, JEONG Kwannng Sik, CHOI Yoon Ho, CHO Mann-Ho(Department of Physics, Yonsei university.)

P2-K017*

InGaN/GaN 청색 발광다이오드에서 전류 과밀 현상이 운반자 넘침에 미치는 영향에 대한 연구 / 송정훈, 유혜정, 동염군, 김태수, 이진규, 오난초(공주대학교 물리학과.)

P2-K018*

The Effect of Well-to-Well Non-uniformity and Saturated Radiative Recombination on Carrier Dynamics in InGaN-based Light Emitting diodes / SONG Jung-Hoon, DONG Yanqun, KIM Tae-Soo, LEE Jin-Gyou, OH Nan-Cho, YU Hye-Jung(Department of Physics, Kongju National University.)

P2-K019*

Experimental Determination of Carrier Injection Efficiency in InGaN/GaN Light Emitting Diodes / 송정훈, 이진규, 동염군, 김태수, 오난초, 유혜정(공주대학교.)

P2-K020*

InGaN/aN 발광 다이오드에서 전자 차단 층 삽입이 소자 내부의 효율에 미치는 영향 분석 / 송정훈, 오난초, 동염군, 김태수, 이진규, 유혜정(공주대학교, 물리학과.)

P2-K021*

Annealing effect on electrical transport of Au/grapheme/n-type silicon Schottky diodes / PARK Tae-Hyun, CHO Sang-Hyeok, KIM Dong-Joo, PARK No-Won, LEE Sang-Kwon(중앙대학교 물리학과.)

P2-K022*

Correlation Analysis Between Filopodial Morphology And Capture Efficiency Of CD4⁺ T-Cells On Nanohole Arrays / CHOI Mun-Ki, JEONG Jin-Tak, LEE Won-Yong, KIM Dong-Joo, LEE Sang-Kwon(Department of physics, Chung-Ang University, Seoul, 156-756, Republic of Korea.)

P2-K023*

유기태양전지에서 발광층구조에 따른 효율 비교 / 배은지, 정동근, 유세기(성균관대학교 물리학과. ¹한국외국어대학교 물리학과.)

P2-K024*

Pressure-induced metallization in crystalline Ge₂Sb₂Te₅ / 조만호, 박승중, 정광식, 안민, 한정화(연세대학교 물리학과.)

P2-K026*

Analysis of memristive characteristics of TiO₂ Thin Film with respect to the different top electrodes / SHIM Jae Hyuk, SHIM Ee Le¹, ABBAS Yawar, SONG Woo Jin, CHOI Yong Jin, YOON Tae Sik², KANG

Chi Jung(Myongji University, Physics. ¹Halla University, School of mechanical & Automotive Engineering. ²Myongji University, Department of Materials Science and Engineering.)

P2-K027*

Study On The Physical Properties Of II-VI Compound Thin Films Grown By MOCVD / YEON Jeong-mi(중앙대학교 나노바이오에너지공학과 CIGS 태양전지실험실.)

P2-K028*

Optical properties of multilayer CdTe/ZnTe quantum dots on si substrate / MAN Minh Tan, 이홍석(전북대학교, 물리학과.)

P2-K029*

레이저 다이오드 벽계면 고반사 코팅을 위한 비정질 실리콘 기반 분포브래그 반사기 제작 및 특성 연구 / GUAN Xiang-Yu, 임정우, 유재수(경희대학교, 전자전파공학과.)

P2-K030*

Silver-doped Indium Oxide Thin Films Deposited by Co-Sputtering Method / OH Gyujin, JEON Jia, KIM Eun Kyu(Department of Physics, Hanyang University.)

P2-K031*

Improved electrical properties of HfO₂ grown on InP via sulfur passivation / 강유선, 김대경, 강항규, 조만호(연세대학교, 물리학과.)

P2-K032*

Electrical carrier transport characteristics in Boron doped Si Nanowires using BF₃ Plasma gas as a function of annealing time / OH Seung Hoon, MA Jin Won, BAE Jung Min, KIM Jeong Hun, CHO Mann-Ho(연세대학교 물리학과.)

2014년 10월 23일 목요일 14:00 - 15:45

장소: 포스터 발표장

P3-C001

Analysis of thermoluminescence glow curve on quartz using computerized glow curve deconvolution / 홍덕균(강원대, 물리학과.)

P3-C002*

Studies of isomeric yield ratios for $^{133m,g}\text{Ce}$ and $^{137m,g}\text{Ce}$ with Bremsstrahlung / KIM HyoJin, NOH Sung Jin, LEE Man Woo, JEONG Dong-Hyeok, KIM Hyun, YANG Kwangmo, RO Tae-IK¹, KIM Guinyun², KANG Yeong-Rok(Research Center, Dongnam Inst. of Radiological & Medical Sciences. ¹Dong-A University, Department of Physics. ²Kyungpook National University, Department of Physics.)

P3-C003

Test of characteristic of pALPIDEfs in inha university / 박종한, 윤진희, 권민정(인하대학교.)

P3-C004

중성자 스핀필터를 위한 소형 고균일 자기장 발생 장치 개발 / 이성만, 이준혁¹, 이창희¹, 문명국², 조상진²(한국원자력연구원, 양자광학연구부. ¹한국원자력연구원, 중성자과학연구부. ²한국원자력연구원, 중성자장치개발관리부.)

P3-C005

Measurement of Isomeric Yield Ratios of $^{197m,g}\text{Pt}$, $^{190m2,g+m1}\text{Ir}$ in 50-, 55-, and 60-MeV bremsstrahlung induced reactions of natural platinum at Pohang Neutron Facility / KYE Yong Uk, SHIN Sung Gyun, CHO Moo Hyun, NAMKUNG Won¹, KIM Gui Nyun², KIM Kwang Soo², ZAHMAN Muhammad², KANG Young Rok³, YANG Sung Chul⁴, NGUYEN Van Do⁵, NAIK Haladhara⁶(Department of Advanced Nuclear Engineering, POSTECH. ¹Pohang Accelerator Laboratory. ²Kyungpook National University. ³Dongnam Inst. Of Radiological & Medical Science. ⁴Korea Atomic Energy Research Institute. ⁵Institute of Physics, P.O. Box 429 Boho, Hanoi 10000, Vietnam. ⁶Radiochemistry Division, Bhabha Atomic Research Centre, Mumbai 400085, India.)

P3-C006

고압 헬륨-3 셀 제작 및 NMR 신호특성 분석 / 이성만, 김흥우¹, 이준혁², 이창희², 문명국³, 조상진³(한국원자력연구원, 양자광학연구부. ¹한국원자력연구원, 원자력화학연구부. ²한국원자력연구원, 중성자과학연구부. ³한국원자력연구원, 중성자장치개발관리부.)

P3-C007*

방사선원에 따른 실리콘 검출기의 신호 획득 비율 / 박환배, 이승철, 김보배, 김태훈, 김홍주, 전해빈, 현효정(경북대학교 물리학과, ¹포항가속기연구소 빔라인 장치부.)

P3-C008*

실리콘 검출기를 이용한 low gamma 검출 / 박환배, 김태훈, 강국현, 김보배, 김홍주, 이승철, 전해빈, 현효정(경북대학교 물리학과, ¹포항가속기연구소 빔라인 장치부.)

P3-C009

Phenomenological features of unitarity in EFT descriptions of low-energy NN scattering / IN EunJin, PARK TaeSun¹, HONG Seong-woo¹(Sungkyunkawn university, Energy science department. ¹Sungkyunkawn university, Physics department.)

P3-C010

Crystal growing facility at the Center of Underground Physics / RA Se Jin, KIM Y.D., KIM H. J.¹(Institute for Basic Science. ¹Kyungpook National University.)

P3-C011

CWO 섬광체의 결합 면에 따른 섬광획득 효율 비교 및 최적화 된 센서 디자인 / 박환배, 김보배, 강국현, 김태훈, 김홍주, 문명국¹, 우오즈미사토루, 이승철, 전해빈, 현효정²(경북대학교 물리학과, ¹한국원자력연구원 중성자과학연구부, ²포항가속기연구소 빔라인장치부.)

P3-C012

핵분열 핵종에 대한 중성자 광학 모델 연구 / 김형일, 김귀년¹, 이영욱²(한국원자력연구원 원자력데이터개발검증센터; 경북대학교 물리학과, ¹경북대학교 물리학과, ²한국원자력연구원 원자력데이터개발검증센터.)

P3-C013*

Alignment of the PHENIX Silicon Vertex Tracker (VTX) in 2014 / MOON TAE BONG(for PHENIX collaboration.)

P3-C014

Preparation of CLAS12 Central Time-of-Flight (CTOF) Counters / TAN Joshua Artem, ASRYAN Gegham¹, BATURIN Vitaly¹, KIM Wooyoung(Kyungpook National University, Department of Physics. ¹Thomas Jefferson National Accelerator Facility.)

P3-C015

New Design of Magnet of an Adiabatic Field Rotation System to Measure Spin Polarization of Unstable Nuclei / SEON Yonggeun,

OHTOMO Yuichi¹, UENO Hideki², KIM Wooyoung(Kyungpook National University, Department of physics. ¹Tokyo Institute of Technology, Department of physics. ²RIKEN Nishina Center.)

P3-C016

픽셀형 반도체 CZT 검출기에서 컴프턴 영상을 획득하기 위한 펄스파형분석에 의한 반응위치의 깊이 결정 / 이종훈, 이일맥, 김진우, 이필수, 장택진, 조화연, 이춘식(중앙대 물리학과.)

P3-C017

공기중의 초고온 폭발에서 지형 효과를 고려한 광자의 수송현상 몬테카를로 시뮬레이션 / 정희수, 김석철¹, 심우섭(국방과학연구소. ¹볼트시뮬레이션.)

P3-C018*

Measurement of Relative Cross-Sections of Natural Pb Targets for the (p,xn) reactions by using 100 MeV proton Accelerator of Korea Multi-Purpose Accelerator Complex / LEE Jieun, KIM Ranyoung, KIM Seokhan, YOON Jungran, RO Tae-ik, LEE Samyol¹(Dong-A University, Department of Physics. ¹Dongseo University, Department of Radiological Science.)

P3-C019

유리 선량계를 이용한 저선량 조사시설의 선량평가 기법 확립 / 황진호, 노성진¹, 김현², 김효진, 정동혁², 양광모², 노태익³, 강영록²(동남권원자력의학원/동아대학교, 신소재물리학과. ¹동남권원자력의학원/인제대학교, 의용공학과. ²동남권원자력의학원. ³동아대학교, 신소재물리학과.)

P3-C020

Study of the scalar meson $f_0(980)$ as a bound state of two η mesons with the contributions from the instanton / LEE HEE-JUNG(Chungbuk National University, Department of Physics Education.)

P3-C021

Neutron capture and Resonance parameter Analysis of ^{155}Gd / KIM Seok-Han, KIM HyoJin, RO Tae-Ik, KANG Yeong-Rok¹, LEE ManWoo², KIM Guinyun³, WILLIAMS D⁴, DANON Y⁴(Donga University, Department of physics. ¹Dongnam Inst. of Radiological & Medical Sciences. ²Dongnam Inst. of Radiological & Medical Sciences. ³Kyungpook Nat. University, Department of physics. ⁴RPI.)

P3-C022

Current Status of RAON RFQs / CHOI Bong Hyuk, HAN Woo-Kyung, PARK Bum Sik(기초과학연구원.)

P3-C023

Resonance Parameter Analysis of ^{157}Gd (n, γ) ^{158}Gd nuclear reaction / KIM Ranyoung, RO Tae-ik, KANG Yeong-Rok¹, KIM Guinyun², KIM Hyo-Jin(Dong-A University, Department of Physics. ¹Research center, Dongnam Inst. of Radiological & Medical sciences. ²Kyungpook Nat. University, Department of Physics.)

P3-C024

Analysis of Resonance Parameter of ^{157}Gd from 10 to 300 eV / KIM Ranyoung, KIM Hyo-Jin, RO Tae-Ik, KANG Yeong-Rok¹, LEE Manwoo¹, KIM Guinyun², WILLIAMS D³, DANON Y³(Dong-A University, Department of Physics. ¹Research center, Dongnam Inst. of Radiological & Medical sciences. ²Kyungpook Nat. University, Department of Physics. ³RPI.)

2014년 10월 23일 목요일 14:00 - 15:45

장소: 포스터발표장

진행위원: [강상관계, D094~D120] 최영재(연세대)

[초전도체, D121~D135] 최기영(서울대)

P3-D094

Anisotropic Magnetic Properties and Effects of Different Annealing Atmospheres in $\text{La}_2\text{CoMnO}_6$ Single Crystals / LEE Nara, KIM M. K., MOON J. Y., CHOI H. Y., OH S. H., CHOI Y. J. (Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea.)

P3-D095

Study on the optical response of the magnetoelectric excitation from the thin film interface / KANG Tae Dong (Center for Correlated Electron Systems (CCES), Institute for Basic Science, Seoul National University.)

P3-D096

Angle Resolved Photoemission Spectroscopy Study of 2DEG at the Surface of Electron Doped SrTiO_3 / SHORESH Soltani, GARAM Han, CHENG-MAW Cheng¹, BYEONG-GYU Park², CHANGYOUNG Kim (Institute of Physics and Applied Physics, Yonsei University, Seoul, 120-749, Korea. ¹National Synchrotron Radiation Research Center(NSRRC), Taiwan. ²Pohang Accelerator Laboratory, POSTECH.)

P3-D097

Characterization of Epitaxial SrIrO_3 Thin Films Grown by Pulsed Laser Deposition Technique / KIM Eunju, KUO Cheng-tai¹, SOHN Woonbae, KIM Minu¹, KIM Miyoung, NOH Tae Won¹ (Department of Materials Engineering, Seoul National University, Seoul 151-747, Republic of Korea. ¹IBS-CCES, Seoul National University, Seoul 151-747, Republic of Korea.)

P3-D098

Doping-Dependent Study of Conduction Electrons in $\text{Ba}_{1-x}\text{La}_x\text{SnO}_3$ / HA TAEWOO, KIM Useong¹, SIM Kyung Ik, CHAR Kookrin¹, KIM Jae Hoon (Department of Physics, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea. ¹Center for Strongly Correlated Materials Research, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Republic of Korea.)

P3-D099

Growth of Large Single Crystals of ErFeO_3 by Flux Method / CHOI Y. J., CHOI H. Y., LEE N., OH D. G. (연세대학교 물리학과.)

P3-D100

Lead-free piezoelectric properties of 0.67BiFeO₃-0.33BaTiO₃ thin films prepared by pulsed laser deposition / PARK Jinsu, LEE Myang Hwan, KIM Sang Wook¹, KIM Myong-Ho, KIM Won-Jeong¹, KUMAR Shalendra², SONG Tae Kwon(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. ²Institute of Basic Sciences, Changwon Nat'l Univ., Gyeongnam 641-773, Korea.)

P3-D101

Magnetodielectric Effects in the Double-Perovskite Gd₂NiMnO₆ / S. H. Oh, H. Y. Choi, N. Lee, Y. H. Jo¹, Y. J. Choi(Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea. ¹Division of Materials Science, Korea Basic Science Institute, Daejeon 305-806, Korea.)

P3-D102

Near-room Temperature Magnetic Transition and Magnetodielectric Effects in PbFe_{0.5}Ti_{0.25}W_{0.25}O₃ / CHOI Y.J, JO Y.H¹, OH S.H, N Lee, CHOI H.Y, KIM M.K, MOON J.Y(연세대학교, 물리학과. ¹기초과학지원연구원.)

P3-D103

Optical Properties of Transparent Perovskite Tin Oxides / SIM Kyung Ik, HA Taewoo, KIM Useong¹, CHAR Kookrin¹, KIM Jae Hoon(Department of Physics, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea. ¹Center for Strongly Correlated Materials Research, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Republic of Korea.)

P3-D104

Optical Study of mono and bilayer graphene / JO youngchan, PARK Byung Cheol, SON Jangyup¹, HONG Jongill¹, KIM Sangjin², HONG Byunghye², KIM Jae Hoon(Department of Physics and Institute of Physics and Applied Physics, Yonsei University, Seoul 120-749, Republic of Korea. ¹Materials Science and Engineering, Yonsei University, Seoul 120-749, Republic of Korea. ²Department of Chemistry, College of Natural Sciences, Seoul National University, Seoul 151-747, Republic of Korea.)

P3-D105

Two type of carrier dynamics in the Dirac material SrMnBi₂ / PARK H. J., JEONG D. W., PARK Joonbum¹, KIM Jun Sung¹, JI Hyo Seok², SHIM J. H.³, KIM K. W.⁴, MOON S. J.⁵, KIM Hyeong-Do, CHO Deok-Yong⁶, 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, Pohang University of Science and Technology, Pohang 790-784, Korea. ²Department of Chemistry, Pohang University of Science and Technology, Pohang 790-784, Korea. ³Department of Chemistry,

Pohang University of Science and Technology, Pohang 790-784, Korea/ Division of Advanced Nuclear Engineering, Pohang University of Science and Technology, Pohang 790-784, Korea. ⁴Department of Physics, Chungbuk National University, Cheongju 361-763, Korea. ⁵Department of Physics, Hanyang University, Seoul 133-791, Korea. ⁶CCES, IBS, Seoul 151-747, Korea / Dep. of Physics and Astronomy, SNU, Seoul 151-747, Korea / Dep. of Physics, Chonbuk National University, Jeonju 561-756, Korea.)

P3-D106*

Controllability of local magnetism in Co-based type double perovskite: $\text{La}_2\text{CoIrO}_6$ and $\text{La}_2\text{CoPtO}_6$ / LEE Min-Cheol, SOHN Chang Hee, LEE Kyungdong, WON Choongjae, HUR Namjung, CHO Deok-yong¹, NOH Tae Won(Center for Correlated Electron Systems (CCES), Institute for Basic Science, Seoul National University. ¹Department of Physics, Chonbuk National University, Jeonju.)

P3-D107*

Role of Local Orbital Angular Momentum in Rashba and Dresselhaus effect with zinc blende crystal structure / 김창영, 조수현, 정원식, 김범영, 김범서, 권준영(연세대학교, 물리학과.)

P3-D108*

Cluster dynamical mean-field study of the bilayer Hubbard model / 김아람, 전건상¹, 최무영(서울대학교, 물리천문학부. ¹이화여자대학교, 물리학과.)

P3-D109*

Dilute Magnetic Topological Semiconductors: What's New Beyond The Physics Of Dilute Magnetic Semiconductors? / 경민김, 용수조, 기석김(POSTECH, Physics.)

P3-D110*

Optical study of superlattice SLTO/STO / ROH Seulki, CHOI Minsu¹, LEE Seokbae, CHOI E.¹, LEE Jaichan¹, HWANG jungseek(Department of physics, Sungkyunkwan University. ¹School of advanced materials science and engineering, Sungkyunkwan University.)

P3-D111*

Phonon instability and the Mott-Peierls transition in $\text{K}_2\text{Cr}_8\text{O}_{16}$ / 김수란, 김규, 민병일(POSTECH, 물리학과.)

P3-D112*

Reversible Electrical Writing of Spin Order Near a Multiferroic Triple Point / JANG Byung-Kweon, LEE Jin Hong, KIM Kwang-Eun, JANG Hoyoung¹, KO Kyung-Tae², JUNG Min Hwa³, KOO Tae Yeong⁴, JEONG Yoon Hee³, OHLDA Hendrik¹, LEE Jun-Sik¹, YANG Chan-Ho(Department of Physics, KAIST, Korea. ¹Stanford Synchrotron Radiation Lightsource, SLAC National

Accelerator Laboratory, USA. ²Max Planck Institute for Chemical Physics of Solids, Germany. ³Department of Physics, POSTECH, Korea. ⁴Pohang Accelerator Laboratory, POSTECH, Korea.)

P3-D113*

Anisotropic thermoelectric properties of mixed-layer compounds of (GeTe)_m(Bi₂Te₃)_n / 김윤민, 김진희, 이종수(경희대학교, 물리학과.)

P3-D114*

ARPES study on MoS₂ exposed to hydrogen gas / 김창영, 김범서, 조수현, 김범영, 김병훈¹, 서정진, 고윤영, 경원식, 박승룡¹(연세대학교 물리학과. ¹인천대학교 물리학과.)

P3-D115*

Helium Adsorption on C₄₀ Molecular Surfaces: Path-integral Monte Carlo Study / KWON Yongkyung, PARK Sungjin(건국대학교 물리학과.)

P3-D116*

Infrared Probe of Spin-Lattice Coupling in Li₂MnO₃ with a Two-Dimensional Honeycomb Lattice / SONG Seungjae, JEON S. Y.¹, LEE S.¹, PARK J.-G.¹, MOON S. J.(Hanyang University, Department of Physics. ¹Institute of Basic Science, Center for Correlated Electron Systems & Seoul National University, Department of Physics & Astronomy.)

P3-D117*

Interlayer correlation between two ⁴He monolayers adsorbed on both sides of α graphyne / KWON Yongkyung, AHN Jeonghwan(건국대학교, 물리학과.)

P3-D118*

Synthesis of Epitaxial LaMnO₃ Thin Films / KIM Yong Jin, LEE Jin Hong, SONG Jong Hyeon, YANG Chang-Ho(Department of physics, KAIST, Daejeon 305-701, Korea.)

P3-D119*

XAS and PES Study on Metal Insulator Transition in NiS_{2-x}Se_x / 한가람, 정원식, 조수현, 서정진, SOLTANI Shoreshe, 김범서, 권준영, 김창영(연세대학교, 물리학과.)

P3-D120*

방사광 분광법을 이용한 희토류 전하밀도파 화합물의 전자 구조 연구 / 이은숙, 김대현, 김현우, 민병훈¹, 권용성¹, J.D. Denlinger², 강정수(가톨릭대학교, 물리학과. ¹대구경북과학기술원. ²Lawrence Berkeley National Laboratory.)

P3-D121

Effect of PMMA Doping on MgB_2 Bulk Superconductor / JANG Sehoon, SINHA Bhavesh Bharat¹, CHUNG Kookchae(KIMS. ¹Mumbai University.)

P3-D122

Effects of Pressure-induced Magnetism on Critical Current Density of FeSe Single Crystals / JUNG Soon-Gil, KANG Ji-Hoon, PARK Eunsung, LEE Sangyun, LIU Jiunn-Yuan¹, CHAREEV Dmitriy A.², PARK Tuson(Department of Physics, Sungkyunkwan University, Suwon 440-746, Republic of Korea. ¹Institute of Physics, National Chiao Tung University, Hsinchu 30010, Taiwan. ²Institute of Experimental Mineralogy, Chernogolovka, Moscow Region, 142432, Russia.)

P3-D123

Ferro-orbital fluctuation of Mn doped LiFeAs / 서정진, 고윤영, 이범성¹, 김기훈¹, 김창영(Yonsei University, Physics department. ¹Seoul National University, Department of Physics and Astronomy.)

P3-D124

전자저울을 이용한 고온 초전도체의 자기 부상력 측정 방법 연구 / 엄주원, 이호근(강원대학교, 물리학과.)

P3-D125

(B,Ga)(Ba,Sr)(Er,Ca) Cu_2O_2 계의 초전도 특성 / 김가원, 이호근(강원대학교, 물리학과.)

P3-D126

Analysis of The Local Property in YBCO Coated Conductor with Striation Using Low Temperature Scanning Laser and Hall Probe Microscopy / RI Hyeong-Cheol, KIM Muyong, PARK Sangkook, PARK Heeyeon(Kyungpook National University, Department of Physics.)

P3-D127*

Growths of Epitaxial Superconducting $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ Thin Films / JANG Han-byul, YANG Chan-ho(Department of Physics, KAIST.)

P3-D128*

Local lattice and time-reversal symmetry breaking in $\text{Fe}_x\text{Bi}_2\text{Te}_3$ ($0 \leq x \leq 0.1$) studied by μSR and Raman spectroscopy / CHOI K.-Y., LEE S.-H., YOON S.-W.¹, LEE W.-J.¹, GLAMAZDA A, LEMMENS P.², KIM H.-J.³, JANG Z.-H.⁴, SUH B.-J.¹(Chung-Ang University, Dept. of Physics. ¹Catholic University of Korea, Dept. of Physics. ²TU Braunschweig, IPKM. ³Daegu University, Dept. of Physics. ⁴Kookmin University, Dept. of Nano and Electronic Physics.)

P3-D129*

Quasiparticle self-consistent GW study of high-Tc cuprate superconductors / JANG Seung Woo, KOTANI Takao¹, KUROKI Kazuhiko², HAN Myung Joon(Department of Physics, KAIST, Korea. ¹Department of Applied Mathematics and Physics, Tottori University, Japan. ²Department of Physics, Osaka University, Japan.)

P3-D130*

Development of Upper Critical Fields in FeSe Single Crystals under Pressure / KANG Ji-Hoon, JUNG Soon-Gil, LEE Sangyun, PARK Eunsung, LIU Jiunn-Yuan¹, PARK Tuson(Center for Quantum Materials and Superconductivity, Departement of Physics, Sungyunkwan University, Suwon. ¹Institute of Physics, National Chiao Tung University, Hsinchu 30010, Taiwan.)

P3-D133*

Optical analysis of BaFe_{2-x}Ni_xAs₂ (x=0.05 and 0.10) / HWANG Jungseek, RHO Seulki, JUNG Eilho, CHOI Kiyoun¹, LEE Seokbae(Department of Physics, Sungkyunkwan University. ¹Department of Physics, Seoul National University.)

P3-D134*

Strong Flux Pinning caused by Topographic Characteristics in (Ba,K)Fe₂As₂ Thin Films / OH Myeong Jun, LIM Hyeong Jun¹, SEO M.S.², PARK S.Y.², KIM Ji Hye, HONG Y.J., KANG W.N.¹, JO Youn Jung(Kyungpook National University. ¹Sungkyunkwan University. ²Korea Basic Science Institute.)

P3-D135*

Superconducting property of Sn_{1-x}In_xTe compounds / 김가령, 송유장, 윤재현, 이종수(경희대학교 응용물리학과.)

2014년 10월 23일 목요일 14:00 - 15:45

장소: 포스터발표장

P3-E059*

이온젤 게이팅을 통한 그래핀의 일함수 측정 / 이한별, 김현철, 이준호, 정내봉, 최두화, 정현중(건국대학교, 이과대학 물리학과 양자상 및 소자 전공.)

P3-E060*

이온성 액체를 이용한 상부 게이팅을 통해 그래핀과 이황화 텅스텐 접합 구조의 전기적 특성 연구 / 정내봉, 이한별, 김현철, 이준호, 최두화, 김학성, 윤호열, 윤호앙, 유영규, 김성원, 엄태우, 장성호, 이상욱, 정현중(건국대학교, 이과대학 물리학과 양자 상 및 소자 전공.)

P3-E061*

Schottky Junction Engineering of 2-Dimensional Semiconductor with its thickness / KIM Hyun-Cheol, LEE Han-Byeol, LEE Jun-Ho, CHOI Doo-Hua, JEUNG Nae-Bong, KIM Hakseong, YOON Ho Ang, LEE Jae Ung¹, CHUNG Hyeonsick¹, LEE Sang Wook, CHUNG Hyun-Jong(Division of Quantum Phases & Devices, Department of Physics, Konkuk University. ¹Department of Physics, Sogang University.)

P3-E062*

탄소나노튜브를 이용한 나노구조물 제작 및 응용 / 임웅빈, 정희성, 박세준, 안영환, 이순일, 박지용(아주대학교 에너지시스템학부.)

P3-E063*

Characterization of X-ray Streak camera / KIM Young Hoon, CHO Byoung Ick¹(Institute for Basic Science (IBS), Gwangju Institute of Science & Technology(GIST). ¹Institute for Basic Science (IBS), Gwangju Institute of Science and Technology (GIST).)

P3-E064*

Pd/Co/Pd 박막의 Pd 유도 자화에 대한 Pd L3-흡수단 X-선 공명 자기산란 연구 / 이동렬, 김동욱, 최용성¹, 송경미², 김재성², 최준우³(숭실대학교, 물리학과. ¹Argonne National Laboratory, Advanced Photon Source. ²숙명여자대학교, 나노물리학과. ³KIST, 스핀 융합연구센터.)

P3-E065*

Angular dependence of spin-orbit spin transfer torques / LEE Ki-Seung, GO Dongwook¹, LEE Hyun-Woo¹, MANCHON Aurelien², HANEY Paul. M³, STILES Mark D.³, LEE Kyung-Jin(Department of Materials Science and Engineering, Korea University. ¹Department of Physics, POSTECH. ²Physical Science and Engineering Division, King Abdullah University of Science and Technology

(KAUST), Thuwal, Saudi Arabia. ³Center for Nanoscale Science and Technology, National Institute of Standards and Technology, Gaithersburg, Maryland, USA.)

P3-E066*

Pt/Co/Pt 박막에서 자기 비등방성 에너지 조절을 통한 자구벽 속력 최대화 / 김덕호, 유상철, 김대연, 문경웅¹, 제송근, 조정구, 민병철², 최석봉(서울대학교, 물리천문학부, ¹한국표준과학연구원, ²한국과학기술연구원.)

P3-E067*

Spin-Orbit Coupling Induced Non-Local Signal in Qusi-2DEG of LAO/STO / YOO Jung-Woo, JIN Mi-Jin, MOON Seon Young¹, JO Jun-Hyun, MODEPALI Vijayakumar, PARK Jungmin, BAEK Seung-Hyub¹(Ulsan National Institute of Science and Technology(UNIST). ¹Korea Institute of Science Technology (KIST).)

P3-E068*

XPS and electron transport study of paramagnetic dusting effect on MgO based magnetic tunnel junction / 이공원, 장영재, 김동석, 주성중¹, 이병찬²(고려대학교, 디스플레이반도체 물리학과, ¹한국표준과학연구원, 전기센터, ²인하대학교, 물리학과.)

P3-E069*

Perpendicular Magnetization of very long ferromagnetically coupled FM/paramagnet/FM / 이공원, 김동석, 김지민, 장영재, 김범진, 주성중¹, 이병찬²(고려대학교, 디스플레이 반도체 물리학과, ¹한국표준과학연구원, Center for Electricity & Magnetism, ²인하대학교, 물리학과.)

P3-E070*

증착 에너지의 변화에 따른 수직자기이방성 연구 / 이공원, 김지민, 김범진, 장영재, 김동석, 이병찬(고려대학교, 디스플레이반도체물리학과, ¹인하대학교, 물리학과.)

P3-E071*

증착에너지의 변화에 따른 박막 특성변화 연구 / 이공원, 김범진, 김지민, 장영재, 김동석, 이병찬(고려대학교, 디스플레이반도체물리학과, ¹인하대학교, 물리학과.)

P3-E072*

Ferroelectric and magnetic properties of PVA/bismuth-ferrite nano-composite film / 황지섭, 조장연¹, 유영준, 박상윤¹, 유필선², 이보화², 이영백(한양대학교 물리학과, ¹차세대융합기술연구원 나노 바이오 융합연구 센터, ²한국외국어대학교 전자물리학과.)

P3-E073*

양극 산화 알루미늄 막의 후면 처리를 통한 나노채널 구조의 균일도 향상 / 고태준, 김승환, 임수환, 김철성(국민대학교 물리학과.)

P3-E074*

다공구조 미세 역학진동자의 동역학적 특성 연구 / 고태준, 이은중, 조명래¹, 김승환, 박윤¹(국민대학교 물리학과, ¹서울대학교 물리천문학부.)

P3-E075*

Electromechanical Resonators Toward Highly Sensitive Mass Detection / KIM Hakseong, MCALLISTER Kirstie, CHEUNG Christina, LEE Sang Wook(Division of Quantum Phases & Devices, School of Physics, Konkuk University, Seoul 143-701, Korea.)

P3-E076*

Junction properties of MoS₂ between 1T and 2H phases / KIM Junsuk, KIM Jeasu, KIM Jungho, VU Quoc An, LEE Young Hee, LIM Seong Chu(Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea.)

P3-E077*

Piezoelectric Nanogenerator based on the PZT particles interconnected with multi-walled carbon nanotubes for mechanical energy harvesting from tapping motion / 한진규, 전도현, 광진호, 최기영¹, 라은주², 임종선², 부상돈(전북대학교, 물리학과, ¹서울대학교, 물리천문학과, ²화학연구원, 박막재료그룹.)

P3-E078*

Photocurrent Generation by Illuminating Whole Photodevice with Both Single- and Bi-layer Graphene / HAN Songhee, KIM Minjung, CHEONG Hyeonsik(Department of Physics, Sogang University.)

P3-E079

BaO-B2O3-TeO2 계의 유리화 범위 및 열 특성 / 김현규, 차유정, 최세용, 배종성, 양호순¹, 홍경수(한국기초과학지원연구원 부산센터, ¹부산대학교 물리학과.)

P3-E080

BaO-B2O3-TeO2 계 유리에서 B-BaB2O4 결정의 생성과 SHG / 김현규, 차유정, 최세용, 양호순¹, 홍경수(한국기초과학지원연구원 부산센터, ¹부산대학교 물리학과.)

P3-E081

Effects of Graphene Oxide coating on the ZnO nanorods / 이지은, 최수민, 윤종원, 김순옥, 권민철¹, 유대황, 한성홍(울산대학교, 물리학과, ¹(주)유니백.)

P3-E082

The effect of sodium citrate concentration on the growth of ZnO nanostructure / 김순옥, 김태훈, KHOA Nguyen Tri, 유대황, 한성홍(울산대학교, 물리학과.)

P3-E083

Photoluminescence properties of the experimental methods in CaMoO_4 / Eu^{3+} , Bi^{3+} phosphor / KIM Eun Ock, MOON Byung Kee, CHOI Byung Chun, JEONG Jung Hyun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P3-E084

Effect of synthesis conditions of morphology and upconversion luminescence properties of NaYF_4 / Yb^{3+} , Er^{3+} prepared by hydrothermal method / OH Ju Hyun, MOON Byung Kee, JEONG Jung Hyun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P3-E085

Polarization Pinning Assists Bipolar Resistive Switching In BiFeO_3 Nano-Island Sandwiched Between Pt Electrode And Nb-doped SrTiO_3 Substrate / 전지훈, 최택집¹, 주호용¹, 이덕현, 박배호(Division of Quantum Phases & Devices, Department of Physics, Konkuk University. ¹Department of Nano Science & Technology, Sejong University.)

P3-E086

Observation of Quantum Hall Effect in Dual-gate Graphene Device / PARK Jeongmin, KANG Haeyong¹, KIM JoongGyu, YOON Yoojoo, PARK Nahee, KIM Jeong-gyun, LEE YouRack, CHUNG Dongsu², KIM Donggyun³, YUN Hyeol⁴, LEE SangWook⁴, SUH Dongseok(성균관대학교 CINAP, 에너지과학과. ¹성균관대학교, 에너지과학과. ²성균관대학교 CINAP, 전자전기공학과. ³성균관대학교 CINAP, 공학계열. ⁴건국대학교, 물리학과.)

P3-E087

The Robustness of Quantum Hall Effect in Graphene Field-Effect Transistor / YOON Yoojoo, KANG Haeyong¹, PARK Nahee, PARK Jeongmin, LEE YouRack, KIM Jeong-Gyun, KIM JoongGyu, KIM Donggyun², YUN Hyeol³, LEE Sang Wook³, SUH Dongseok(성균관대학교 CINAP, 에너지과학과. ¹성균관대학교, 에너지과학과. ²성균관대학교 CINAP, 공학계열. ³건국대학교, 물리학과.)

P3-E088

PMMA 매개층의 농도에 따른 나노 입자 전사 연구 / 김리향, 신종화(카이스트, 신소재공학과.)

2014년 10월 23일 목요일 14:00 - 15:45

장소 / 포스터발표장

P3-K033

SnO₂ 박막의 비정형적인 입자 특성이 광학적인 영향에 미치는 연구 / 정진, 박지환(조선대학교 물리학과.)

P3-K034

산화주석 박막의 전기적인 성질과 광학적 연관성에 관한 연구 / 김영석, 정진(조선대학교 물리학과.)

P3-K035

cvd법으로 성장한 산화주석의 구조적인 특성 / 양소명, 정진(조선대학교 물리학과.)

P3-K036

산화주석의 성장시간변화에 따른 이차성장 / 김영석, 정진(조선대학교 물리학과.)

P3-K037

Investigation of properties in InGaN-based vertical type solar cell with emission wavelengths in ultraviolet-blue-green regions / YANG gyemo, PARK hyunho(전북대학교 반도체화학공학부.)

P3-K038

280nm UV LED를 이용한 살균모듈 제작 및 특성 연구 / 서용곤, 윤형도, 박재현(전자부품연구원, 에너지나노소재연구센터.)

P3-K039

CdIn₂O₄ 및 CdIn₂O₄: Er 결정의 광학적 특성 / 방태환, 최성휴(조선대, 물리학과.)

P3-K040

화학기상증착법을 이용한 몰리브덴 박막의 전기적 특성 / 석동수, 임민혁, 권해용, 이규현(메카로닉스.)

P3-K041

알루미늄 전구체 온도에 따른 ZnO: Al(AZO) 박막의 광학적 특성 / 이규현, 천성학, 이호건, 정주환(메카로닉스.)

P3-K042

Drop-casting 방법을 이용한 PANI의 함유량에 따른 Flexible

Supercapacitor / 김종민, 조용철, 우현석, 손재상, 한재석, 박우영, 김인호, 조상은, 이종경, A. I. Inamdar, 김형상, 임현식(Division of Physics and Semiconductor Science, Dongguk University.)

P3-K043

High Reflectivity Distributed Bragg Reflector based on Undoped/Porous Si-doped GaN Layer made by Selective Electrochemical Etching / LEE Seung-Min, MOHAMED Ebaid, KANG Jin-Ho, PARK Jong-Oh, RYU Sang-Wan(Department of Physics, Chonnam National University.)

P3-K044

이방적인 결정성을 가지는 a-plane GaN의 광학적 특성 분석 / 서용곤, 윤형도, 박재현, 황성민¹(전자부품연구원, 에너지나노소재연구센터, ¹(주)소프트에피.)

P3-K045

Structural and Optical Properties of SnO₂ thin films / 소현섭, 박준우, 정대호, 고건희, 이호선(경희대학교 물리학과.)

P3-K046

Undoped GaN 사이 삽입된 Nanoporous GaN의 전기전도도 연구 / 박종오, 류상완(전남대학교, 물리학과.)

P3-K047

Zn_xCd_{1-x}Se 박막의 성장과 물리적 특성 / 이정주, 한동헌, 윤은정, 강광용¹(경상대학교, 물리학과, ¹동의대학교, 부산IT융합부품연구소.)

P3-K048

TeCl₄를 이용한 CdSe/ZnTe core-shell 구조 나노선의 성장 / 송만석, 김용(동아대학교, 신소재물리학과.)

P3-K049

InAs/GaSb 제2형 응력초격자 적외선 검출기의 표면 보호막에 따른 암전류(Dark Current) 특성 연구 / HWANG Je Hwan, HWANG Je Hwan¹, LEE Hun, LEE Hun¹, JUNG Jae Chul, KIM Jun Oh¹, LEE Sang Jun¹, KIM Ha Sul(Physics, Chonnam National University, Kwangju, 500-757, South Korea. ¹Division of Industrial Metrology, Korea Research Institute of Standards and Science, Daejeon 305-340, Korea.)

P3-K050

Kronig-Penney 모델을 이용한 밴드갭 에너지 계산과 InAs/GaSb 초격자 적외선 검출소자의 특성평가 / 이훈, 황제환, 정재철, 김하술, 김준오¹, 이상준¹(전남대학교, 물리학과, ¹한국표준과학연구원.)

P3-K051

Synthesis of Large-Area And High-Quality MoTe₂ Film By

Chemical Vapor Deposition / PARK Jin Cheol, KIM Ki Kang¹(성균관대학교 IBS 나노구조 물리 연구단, ¹동국대학교 융합에너지신소재공학과.)

P3-K052

Extracting electrical parameters of InGaAs Schottky barrier diode from temperature dependence of current-voltage characteristics / SHIN Jun-Hwan, HAN SANG-PIL¹, PARK Jeong-Woo¹, PARK Kyung Hyun (ETRI, THz photonics creative research center. UST, school of advanced device technology. ¹ETRI, THz photonics creative research center.)

P3-K053

Analog Resistive Switching Characteristics of Maghemite Nanoparticles with Different Top Electrodes / SONG Woo Jin, SHIM Ee Le¹, ABBAS Yawar, SHIM Jae Hyuk, YOON-JAE Beak², TAE SIK Yoon², CHOI Young Jin, KANG Chi Jung(Myongji University, Department of Physics. ¹Halla University, School of mechanical&Automotive Engineering. ²Myongji University, Department of Materials Science and Engineering.)

P3-K054

Nanoporous GaN의 Oxidation을 통한 Gallium Oxide 생성과 특성 분석 / 김신재, 류상완(전남대학교 물리학과.)

P3-K055

Phase lithography of MoS₂ using scanning thermal atomic force microscopy / KIM Jaesu, KIM Junsuk, KIM Hyun, HAN Kanghee¹, LEE Young Hee, LIM Seong Chu(성균관대학교 에너지과학과 CINAP. ¹성균관대학교 CINAP.)

P3-K056

Indium oxide와 Molybdenum이 co-sputtering 된 박막의 전기적 및 광학적 특성변화 연구 / 전지아, 오규진, 김은규(한양대학교, 물리학과.)

P3-K057

나노 크기 게이트 크기의 변화에 따른 낸드 플래시 메모리의 셀 간섭에 의한 메모리 성능 / 정현수, 유주태, 김태환(한양대학교 전자통신컴퓨터공학부.)

P3-K058

솔루션 공정을 이용하여 제작한 SnO₂ 나노 입자와 polystyrene 복합물질을 기반으로 제작한 비휘발성 메모리 소자의 동작 메커니즘에 관한 연구 / 류준장, 김유나¹, 김태환(한양대학교, 전자컴퓨터통신공학과. ¹한양대학교, 나노반도체공학과.)

P3-K059

절연층 구조 변화를 통한 플래시 메모리의 전기적 특성 향상 / 고경욱, 김태환(한양대학교 전자컴퓨터공학과.)

P3-K060

광반사 분광법을 이용한 InAs/GaAs 양자점 태양전지의 내부 전기장 연구 / 조현준, 소모근, 한임식, 권용재¹, 배진호¹, 최근도¹, 최진¹, 노삼규², 김종수(영남대학교, 물리학과. ¹경우고등학교. ²한국표준과학연구원.)

P3-K061

Poly(methylmethacrylate)/Poly(3-hexylthiophene) 복합층으로 이루어진 유기 메모리 소자의 안정성 / LEE Namhyun(한양대학교 전자컴퓨터통신공학과.)

P3-K062

MOSFET에서의 High-k 절연층의 이동도 변화 메커니즘 / 박재현, 고경욱¹, 김태환(한양대학교 융합전자공학부. ¹한양대학교 전자컴퓨터통신공학과.)

P3-K063

Spin pumping using inhomogeneous magnetic field RTD / KIM Nammee, KIM Heesang(Department of Physics, Soongsil University, Seoul 156-743, South Korea.)

2014년 10월 24일 금요일 11:00 - 12:45

장소: 포스터발표장

진행위원: [유전체, D136~D163] 박종호(진주교대)

[응집물질 계산과학, D164~D174] 홍지상(부경대)

P4-D136*

Deterministic Control and Enhanced Electronic Properties of Long-range Stripe Phase Boundaries in La-doped BiFeO₃/ KIM Kwang-Eun, JANG Byung-Kweon, HEO Youn¹, JEONG Myoung², LEE Jin Hong, LEE Jeong Yong, JAN Seidel¹, YANG Chan-Ho (Department of Physics, KAIST. ¹School of Materials Science and Engineering, University of New South Wales. ²Center for Nanomaterials and Chemical Reactions, Institute for Basic Science.)

P4-D137*

BiFeO₃ 나노 구조물의 제작과 전기적 특성 연구 / CHOI GIPPEUM, YANG SUNA, KIM BYUNGHOON, BU SANGDON (Department of Physics, Chonbuk National University, Jeonju 561-756, Korea.)

P4-D138

Structural and Electrical Properties of Pulsed Laser Deposited BiFeO₃ and BiFe_{0.95}Mn_{0.05}O₃ Thin Films with Ge-doped ZnO Electrodes / 김상수, 김진원, RAGHAVAN Chinnambedu Murugesan, 최지아, 김원정(창원대학교, 물리학과.)

P4-D139

Effects of W-doping on Structural and Electrical Properties of Bi₇Fe₃Ti₃O₂₁ Thin Films Prepared by Chemical Solution Deposition / 김상수, RAGHAVAN Chinnambedu Murugesan, 김진원, 최지아(창원대학교, 물리학과.)

P4-D140

Annealing Temperature Dependence on Structural and Electrical Properties of Nd-doped Bi₇Fe₃Ti₃O₂₁ Thin Films / 김상수, 최지아, RAGHAVAN Chinnambedu Murugesan, 김진원(창원대학교, 물리학과.)

P4-D141

Fabrication and Piezoelectric property of Vertically Oriented and Highly ordered Pb(Zr_{0.52}Ti_{0.48})O₃ Nanotube Arrays / KIM BYUNGHOON, YANG SUNA, CHOI GIPPEUM, BU SANGDON (Department of Physics, Chonbuk National University, Jeonju 561-756, Korea.)

P4-D142*

Effect of Pr doping on electrical and piezoelectric properties of $\text{Bi}_{4-x}\text{Pr}_x\text{Ti}_3\text{O}_{12}$ ceramics / KANG SINWOOK, JEON DOHYUN, CHO SAMYEON, YANG SUNA, BU SANGDON(Department of Physics, Chonbuk National University, Jeonju 561-756, Korea.)

P4-D143*

Effect of Nd Doping on Electrical Properties of $\text{Bi}_{4-x}\text{Nd}_x\text{Ti}_3\text{O}_{12}$ Ceramics / JEON DOHYUN, CHO SAMYEON, KANG SHINWOOK, YANG SUNA, BU SANGDON(Department of Physics, Chonbuk National University, Jeonju 561-756, Korea.)

P4-D144*

Fabrication and Thermal stability Characterization of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ Ceramics for High Temperature applications / CHO SAMYEON, JEON DOHYUN, KANG SHINWOOK, YANG SUNA, BU SANGDON(Department of Physics, Chonbuk National University, Jeonju 561-756, Korea.)

P4-D145

Anisotropic thermoelectric property of polycrystalline $(\text{Bi}_{0.2}\text{Sb}_{0.8})_2\text{Te}_{3+x}$ compounds / 김진희, 김정영¹, 송보경¹, 정주연¹, 정혜현¹, 김윤민, 이종수, 안경한²(경희대학교 응용물리학과. ¹부흥고등학교. ²삼성전기.)

P4-D146*

Epitaxial Sodium Doped WO₃ Thin Films / WOO Chang-Su, YUN Shin Hee, YANG Chan-Ho(KAIST, Department of Physics.)

P4-D147

2D correlation analysis of the Raman spectra of SmB_6 / NGUYEN Thi Huyen, NGUYEN Thi Minh Hien, KANG Boyoun¹, CHO Beongki², YANG In-Sang(Department of Physics, Ewha Womans University, Seoul 120-750, Korea. ¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology (GIST), Gwangju 500-712, Korea. ²Department of Photonics and Applied Physics, Gwangju Institute of Science and Technology (GIST), Gwangju 500-712, Korea.)

P4-D148

Nondestructive Analysis Of Cultural Heritage By Raman Spectroscopy - Estimation Of Pigment Grain Size / YANG In-Sang, KANG Dai-Il¹, LEE Han-Hyoung¹, JI Jeong-Eun, HAN Ki-Ok(Department of Physics, Ewha womans University. ¹Department of Heritage conservation & Restoration, Korea National University of Cultural Heritage.)

P4-D149

Terahertz Spectroscopy of Traditional Korean Pigments / LEE Howon, KIM Jong Hyeon, JO Young Chan, HA Taewoo, SIM Kyung Ik, KIM Jae Hoon(Department of Physics, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Korea.)

P4-D150

Polymorphic phase transitions in an organic-inorganic layered hybrid $(C_6H_5CH_2CH_2NH_3)_2CuCl_4$ (Cu-PEA) using an optical microscope and thermal analysis / PARK Garam, KIM Min-Tae¹, OH In-Hwan, PARK J. M. Sungil, LEE Kwang-Sei²(한국원자력연구원. ¹충남대학교. ²인제대학교.)

P4-D151

Superionic Phase Transitions in $CsHSO_4$ by Static NMR and MAS NMR / 최재현, 김남희, 임애란(전주대학교 탄소융합대학원. '전주대학교 탄소융합대학원, 전주대학교 과학교육과.)

P4-D152

Tumbling Motions of $NH_2(CH_3)_2$ Ions in $[NH_2(CH_3)_2]_2ZnCl_4$ Studied using 1H MAS NMR and ^{13}C CP/MAS NMR / 김남희, 최재현, 임애란(전주대학교 탄소융합대학원. '전주대학교 과학교육과, 탄소융합대학원.)

P4-D153

Non-Debye relaxation behavior of BLTN ferroelectric ceramics / 박종호(진주교육대학교, 과학교육과.)

P4-D154

The AC conductivity of Pb-Free Glasses $(13-x)(Li_2O-B_2O_3-BaO) \cdot xTb(x=0.3, 0.4, 0.5)$ / 박종호(진주교육대학교, 과학교육과.)

P4-D155

PMN-PT 단결정의 초전 효과를 이용한 에너지 하베스팅 연구 / 고영준, 정종훈(인하대학교 물리학과.)

P4-D156*

$ASnO_3(A=Ba, Sr, Ca)$ 에서 Hybrid functional을 이용한 전자구조 계산 / 이해원, 김복기(부산대학교 물리학과.)

P4-D157*

Angle-Resolved Photoemission Spectroscopy Study of the $BaSnO_3$ Thin Films on $SrTiO_3$ Substrates Grown by Pulsed Laser Deposition / JOO Beom Soo, CHANG Young Jun, SEO Dongmin, CHOI E. J., HAN Moon-sup(Department of Physics, University of Seoul.)

P4-D158

Temperature-dependent local structural properties of Ti₂O₃ / HWANG In hui, JIN Zhenlan, PARK Chang In, JIANG Bingzhi¹, HAN Sang Wook(Department of Physics Education and Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Korea. ¹Department of Physics, Yanbian University, Yanji 133002, China.)

P4-D159*

Unstable Nature Of Reset Parameters in Unipolar Resistance Switching Since Width Distribution of Singly Connected Conducting Filaments / NA Sang-Chul, LEE Keundong¹, CHUN Min Chul, IM Ji Seok, KIM Jae-Jun, LEE Sangik, PARK Bae Ho¹, KANG Bo Soo(Hanyang University. ¹Konkuk University.)

P4-D160*

Correlation between luminescence properties and formation of nanocrystalline silicon with substrate temperature variation / JEONG Jiwoon, GU Minseon, AHN Hanyeol, JOO Beom Soo, HAN Moonsup(Department of physics, University of Seoul.)

P4-D161*

결함 조절된 SiO₂/SiO_x 다층 구조에서 열처리 온도와 가스 종류에 따른 PL 특성 분석 / GU Minseon, AHN Hanyeol, JEONG Jiwoon, JOO Beom Soo, HAN Moonsup(Department of Physics, University of Seoul.)

P4-D162

Optical Properties of Eu²⁺-activated Silicate Phosphors on Blue LED Chips / KWON Bong-Joon, GANDHI Sakthivel, 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.)

P4-D163

Development of an Efficient Yellow Emitting Silicate Phosphor Through Sol-gel Strategy Using a Water Friendly Silicate Source / WOO Hyun-Joo, GANDHI Sakthivel¹, KWON Bong-Joon¹, SHIN Dong-Soo²(Changwon National University, Department of Physics. ¹Changwon National University, Research Institute of Basic Sciences. ²Changwon National University, Department of Chemistry.)

P4-D164

Pressure induced new metallic crystalline structure of GeTe / 조만호, 정광식, 박승중(연세대학교 물리학과.)

P4-D165

Electric field effect on magnetocrystalline anisotropy of Fe/MgO and Pt/Fe/MgO: A first principles study / TAIVANSAIKHAN Purev, RHIM S. H.¹, ODKHUU Dorj, KWON Oryong, HONG Soon Cheol(University of Ulsan, Department of Physics. ¹University of Ulsan, Energy Harvest Storage Research Center.)

P4-D166

Atomic and Electronic Properties for Bulk and Stacked Structures of PbVO₃ using Density Functional Theory Calculations / CHA Janghwan, OH Seol Hee¹, JO William¹, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University. ¹Department of Physics, Ewha Womans University.)

P4-D167

Band symmetries of mixed-valence topological insulator: SmB₆ / KANG Chang-Jong, KIM Junwon, KIM Kyoo, KANG J.-S.¹, DENLINGER J. D.², MIN B. I.(POSTECH, Dept. of Physics. ¹The Catholic University of Korea, Dept. of Physics. ²Advanced Light Source, Lawrence Berkeley Laboratory.)

P4-D168

Electronic structures of silicon and germanium nanowires in the GW approximation / KIM Han-Gyu, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University.)

P4-D169

Synthesis of Double Perovskite Single Crystals of R₂CoMnO₆ Family (R=rare earths) / 최환영, 오상협, 김미경, 이나라, 최영재(연세대학교 물리학과.)

P4-D170*

Enhancement of ZT by Mixing two Thermoelectric Materials: Bi₂Te₃ & GeTe / KIM Jae Nyeong, SHIM Ji-Hoon(Department of Chemistry, Pohang University of Science and Technology.)

P4-D171*

The electronic structure of RE₂O₂Sb for the charge density wave instability / 김희정, 강창종, 심지훈¹, 민병일(포항공대 물리학과. ¹포항공대 화학과.)

P4-D172*

Ab initio study of the heterostructures composed of graphene and porous graphene / LEE Junsu, KIM Gunn(Department of Physics, Sejong University.)

P4-D173*

**Carbyne Bundles and Carbon Allotropes for a Lithium-ion-battery
Anode / 박민우, 이훈경(건국대학교 물리학과.)**

P4-D174*

**Many body effects on optical spectra of armchair MoS₂
nanoribbon / GW+BSE study / KIM Jongmin, YUN Won Seok, LEE
J.D.(Dept. of Emerging Materials Science, DGIST.)**

2014년 10월 24일 금요일 11:00 - 12:45

장소: 포스터발표장

P4-E089

CaxSr1-xTiO3 형광체 분말의 합성 및 광특성 연구 / 김영경, 안병철, 양호순, 홍경수¹(부산대학교 물리학과, ¹한국기초과학지원연구원 부산센터.)

P4-E090

성장온도에 따른 ZnO particle의 구조적, 광학적 특성 / 서덕민, 김순옥, 윤종원, 김도희, 권민철¹, 유대황, 한성홍(울산대학교, 물리학과, ¹(주)유니백.)

P4-E091

Photocatalytic Activity of Au/TiO2 nanorod prepared by Hydrothermal Method / 윤종원, 류기연, 김순옥, 유대황, 권민철¹, 한성홍(울산대학교, 물리학과, ¹(주)유니백.)

P4-E092

Photocatalytic Activity of Au Sputtered TiO₂ Nanorod by Annealing Temperature / 류기연, 윤종원, 권민철¹, 유대황, 한성홍(Physics, University of Ulsan, Ulsan. ¹Univac, Gimhae.)

P4-E093

Upconversion properties of Sr₂CeO₄: Er³⁺ phosphors prepared by high-energy ball milling method / SEO Yeon Woo, MOON Byung Kee, CHOI Byung Chun, JEONG Jung Hyun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P4-E094

Electronic Structure and luminescence properties of Sm³⁺ doped Ba₂CaMoO₆ phosphors / WANG Lili, NOH Hyeon Mi, MOON Byung Kee, JEONG Jung Hyun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P4-E095

Synthesis and luminescent properties of Ca₉LiGd₂(1-x)/3(PO₄)₇: 2x/3Sm³⁺ phosphor / GUO Yue, WANG LiLi, MOON Byung Kee, JEONG Jung Hyun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P4-E096

Effective catalytic performance from hybrid graphene oxide and controllable gold nanoparticle size / KHOA Nguyen Tri, THUAN Doan Van, KIM Soon Wook, YOO Dae-Hwang, HAHN Sung Hong(Ulsan university.)

P4-E097

Radio-frequency characteristics of graphene monolayer via nitric acid doping / LEE Hee-Jo, KIM Eunho¹, PARK Jaehyun¹, SONG Wooseok², AN Ki-Seok², KIM Yong Seung³, YOOK Jong-Gwan⁴, JUNG Jongwan⁵(Daegu University, Physics Education. ¹Sejong University, Institute of Nano and Advanced Materials Engineering. ²Korea Research Institute of Chemical Technology, Thin Film Materials Research Group. ³Sejong University, Graphene Research Institute. ⁴Yonsei University, School of Electrical and Electronic Engineering. ⁵Sejong University, Graphene Research Institute & Institute of Nano and Advanced Materials Engineering.)

P4-E098

Fabrication of Wet-Spun Graphene and Graphene-CNT Nanocomposite Fiber / YEO Chang Su, CHO Jang Yean, SHIN Min Kyoon, HAN June Beom¹, JU Sang Hyun¹, PARK Sang Yoon(Advanced Institutes of Convergence Technology, Seoul National University, Suwon. ¹Department of Physics, Kyonggi University, Suwon, Gyeonggi-Do 443-760, South Korea.)

P4-E099

Analysis on the Quantum Hall effect in two-terminal Graphene device / KIM Joong Gyu, KANG Haeyong¹, PARK Jeongmin, YOON Yoojoo, PARK Nahee, LEE Yourack, KIM Jeong-gyun, KIM Donggyun², YUN Hoyeol³, LEE Sang Wook³, SUH Dongseok(성균관대학교 CINAP, 에너지과학과. ¹성균관대학교, 에너지과학과. ²성균관대학교, 공학계열. ³건국대학교, 물리학과.)

P4-E100

그래핀 와이어 제작 및 특성 분석 / 김호중, 정수용, 장수경¹, 윤용주², 이삼녕³, 하동한(한국표준과학연구원 양자측정센터. ¹연세대학교 물리학과. ²건국대학교 신소재융합공학과. ³한국해양대학교 나노반도체공학과.)

P4-E101

Graphene field-effect transistor with ferroelectric substrate / PARK Nahee, KANG Haeyong¹, YOON Yoojoo, LEE YouRack, PARK Jeongmin, KIM Jeong-gyun, KIM Joong Gyu, YUN Hoyeol², LEE Sang Wook², SUH Dongseok(성균관대학교 CINAP, 에너지과학과. ¹성균관대학교, 에너지과학과. ²건국대학교, 물리학과.)

P4-E102

Si nanowires on graphene for improving interface in lithium ion battery / XIA Fan, KIM Su Han, LEE Won Woo, PAIK Ungyu, PARK Won Il(한양대학교 신소재공학과.)

P4-E103

Thermal conductivity measurement of CVD grown mono- and bilayer MoS₂ by Raman spectroscopy / 배정준, 정혜윤, 한강희, 김현, 김재수, 김성태, 김기범, 임성주, 이영희(IBS 나노구조물리연구단 성균관대학교.)

P4-E104

Exceptionally High Power Output Nanogenerators Originated From Surface Piezoelectricity Effects of Ultrathin ZnO Nanoflakes

/ NGOC Huynh Van, KANG Dae Joon(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea.)

P4-E105

Engineering of domain dynamics in strained VO₂ nanowires /

YANG Hyoung Woo, KANG Dae Joon¹(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea. ¹Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea.)

P4-E106

Quantum Hall Effect in Hexagonal Boron Nitride – Graphene – h-BN Sandwich Structure with Edge Contacts /

TRUONG Thuy-Kieu, KANG haeyong¹, PARK Jeongmin², KIM Joong Gyu², YOON Yoojoo², PARK Nahee², KIM Jeong-Gyun², LEE Yourack², YUN hoyeol³, LEE Sang Wook³, SUH Dongseok(성균관대학교 CINAP, 에너지과학과. ¹성균관대학교, 에너지과학과. ²성균관대학교 CINAP, 에너지과학과. ³건국대학교, 물리학과.)

P4-E107

Effect of rapid thermal anneal on the magnetic tunnel junctions with MgO barrier /

민길준(표준과학연구원.)

P4-E108

Tungsten Doping Effect On Electrical, Structural Properties Of V_{1-x}W_xO₂(0≤x≤4.0) Thin Films By Sol-gel Method /

조진철, 신준환, 김현택(UST 차세대소자공학과. ¹ETRI MIT창의연구센터.)

P4-E109

Modification Of Metal-Insulator Transition In VO₂ Films Grown On TiO₂ Substrates /

KIM Hyun-Tak, SLUSAR Tetiana, CHO Jin-cheol¹(ETRI, MIT Creative Research Center. ¹UST, Advanced Device Technology.)

P4-E110

Influence of Patterned-Hole size on Preferred Orientation of GaN Grown on m-plane Sapphire Substrates /

주미연, 윤한섭, 이혜미, 장동수, 이상화, 김진교(경희대학교, 물리학과.)

P4-E111

Control of Spontaneous Polarity Inversion of m-oriented GaN Twins Grown on Patterned m-plane Sapphire Substrates /

장동수, 윤한섭, 주미연, 이혜미, 이상화, 김진교(경희대학교, 물리학과.)

P4-E112

Calcium chlorapatite: RE³⁺ (RE = Dy, Eu, Pr, 및 Sm) 분말의 합성 온도 조건과 물성 연구 / 하명규, 양호순¹, 홍경수(한국기초과학지원연구원 부산센터, ¹부산대학교 물리학과.)

P4-E113

열처리한 이성분계 텔레늄 유리 결정에서의 구조 및 광특성 연구 / 하명규, 김현규, 양호순¹, 홍경수(한국기초과학지원연구원 부산센터, ¹부산대학교 물리학과.)

P4-E114

A novel acoustic lens built with a low dispersive metamaterial / 이상훈, 김문수, 이승현, 박춘만¹(서남대학교 보건의료공학과, ¹주)삼진.)

P4-E115

Sm³⁺, Eu³⁺, 및 Pr³⁺를 첨가한 Ca₅(PO₄)₃Cl의 합성 및 광학적 특성 연구 / 김영경, 양호순, 홍경수¹(부산대학교 물리학과, ¹한국기초과학지원연구원 부산센터.)

P4-E116

희토류 이온을 첨가한 K₂O-Na₂O₅-TeO₂ 유리의 합성과 물성연구 / 김현규, 하명규, 양호순¹, 홍경수(한국기초과학지원연구원 부산센터, ¹부산대학교 물리학과.)

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장소: 포스터발표장

P4-H023

Ion Energy Distribution in Ballistic-mode Plasma Immersion Ion Implantation for Surface Modification of Insulating Material / 이창호, 이희재, 남궁원¹, 조무현(포항공과대학교, 물리학과. ¹포항가속기연구소.)

P4-H024

Generation of quasi-monoenergetic electron beams by laser wakefield acceleration in a tapered gas cell / 남인혁(광주과학기술원, 물리광학과.)

P4-H025

Comparison of the beam dynamics for RAON LEBTRACK between TRACK and DYNAC / JANG Ji-Ho, JIN Hyun-Chang, HONG In-Seok, JEON DongO(IBS.)

P4-H026

14 MeV 중성자와 17 MeV 양성자에 의한 Fe, Cr, Ni 에서의 변위원자수 전산모사 / LEE Bo-Young, OH Joo-Hee, KIM Dong-Woo, KO Seung-Kook, KIM HeeSoo¹, NOH Seung-Jeong¹(울산대학교 물리학과. ¹단국대학교.)

P4-H027

A study of multi-harmonic buncher at RAON heavy ion accelerator / JIN Hunchang, JANG Ji-Ho, HONG In-Seok(IBS.)

P4-H028

Thermo-hydraulic behavior trend by flow imbalance during the magnet quench / LEE HyunJung, PARK D. S., JOO J. J., MOON K. M., KIM N. W., LEE Y. J.(National Fusion Research Institute.)

P4-H029

Implementation of the Radiation Safety System for the Medical LINAC / LEE Mujin, LIM Heuijin, LEE Manwoo, KANG Sang Koo, JEONG Dong Hyeok, YANG Kwangmo(Dongnam Institute of Radiological & Medical Sciences, Research Center.)

P4-H030

핵융합로 구축재료의 수소동위원소 효과 연구(Study of hydrogen-isotope effect ratios for nuclear fusion materials) / 이석관, 변우준, 서희정, 신해원, 김희수, 노승정(단국대학교 죽전캠퍼스 응용물리학과, 나노센서바 이오텍 연구소, 용인 448-701.)

P4-H031*

홀 추력기 시스템을 위한 전자빔 방출기의 플라스마 특성 연구 / 한응희, 김호락, 임유봉, 선종호¹, 최원호(KAIST, 물리학과, ¹경희대학교, 우주과학과.)

P4-H032*

Enhancement of the Betatron Radiations of a Laser-plasma Accelerated Electron by Off-centroid Laser Injection / LEE Tae-hee, UHM Han-sup¹, NAM In-hyuk, JANG Do-geun, SUK Hyyong(Department of Physics and Photon Science, Gwang-ju Institute of Science and Technology (GIST). ¹Department of Electrophysics, Kwangwoon University.)

P4-H033*

F82H의 수소투과 특성실험(Hydrogen permeation property experiments in F82H) / 변우준, 이석관, 신해원, 서희정, 김희수, 노승정(단국대학교 죽전 센트로캠퍼스 응용물리학과, 용인 448-701.)

P4-H034*

Characterisation of a gas cell for laser wakefield acceleration studies / PHUNG VANESSA LING JEN, NAM INHYUK, KIM MINSEOK, SUK HYYONG(GWANGJU INSTITUTE OF SCIENCE AND TECHNOLOGY.)

P4-H035

Optical Emission Spectroscopy를 이용한 중수소 플라스마의 물성 진단 / 오차환, 박경득, 이원욱, 심성용(한양대학교.)

P4-H036

Low Loss Transmission Line Study For KSTAR LHCD System / 김지현, 남궁원¹, 조무현¹(NFRI, ¹PAL, POSTECH.)

P4-H037*

Coherent Transition Radiation from the Interaction of Ultraintense Laser and Ultrathin Foil Target / BAE Leejin, CHO Byoung-ick(Gwangju Institute of Science and Technology, Department of Physics and Photon Science.)

P4-H038

Surface treatment on vacuum feedthrough for high-power, long-pulse ICRF operation at KSTAR / 김해진, 왕선정, 김지현, 홍석호, 이유호¹, 박병호(국가핵융합연구소, ¹카이스트, 원자력 및 양자공학과.)

P4-H039*

PIC code and Envelope code Combination / 허민섭, 강태연(UNIST.)

P4-H040

RAON 28GHz ECR Ion Source 개발 및 운영시스템 개념설계 / 허정일, 최석진, 김용환, 홍인석, 전동오(기초과학연구원.)

P4-H041

중수소 플라즈마의 흡수 스펙트럼 측정 / 오차환, 심성용, 박경득, 이원욱(한양대 물리학과.)

P4-H042

D2 플라즈마 조사된 흑연시료의 열탈착거동(Thermal desorption behavior of D2 plasma irradiated graphite / 김희수, 이석관, 변재덕, 서희정, 변우준, 신해원, 현준원, 노승정, 김도완¹, 한준희¹, 이철의¹(단국대학교 죽전 센트로 캠퍼스 응용물리학과, 용인 448-701, ¹고려대학교 안암캠퍼스 물리학과, 서울 136-701.)

P4-H043

Spectroscopy study of D₂ plasma and He ion irradiation effects on graphite tile / 이철의, 김도완, 이규원(고려대학교, 물리학과.)

P4-H044*

Ion acceleration in the radiation pressure regime with ultra-thin foils / SHIN Sang Yun, HAHN Sang June(Department of Physics, Chung-Ang University, Seoul 156-756, Republic of Korea.)

P4-H045

Study of RF Power Water Load for S-band. / KIM KWANGHOON, KWON SEIJIIN, KIM SANGHEE, PARK SOUNGSOO, HU JINYUL, HEO HOON, PARK YONGJUNG, LEE HEUNGSOO(Pohang Accelerator Laboratory.)

P4-H046*

KSTAR 전자온도 분포 재구성을 위한 연X-선 및 인공신경망 진단계 연구 / 박재선, 장주혁, 이현용, 이승현, 홍주환, 전태민, 송인우, 최원호(카이스트 물리학과.)

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P4-L001*

X선 우주망원경 트리거 시스템 동작 및 유효성 확인 / 이용훈, JAKUB Ripa, 박일홍, 이직, 박휘우, 송인웅(성균관대학교 물리학과.)

P4-L002*

자외선/가시광 추적망원경의 프로그래밍 현황 / 송인웅, 김지은, 정수민, RIPA Jakub, 김민빈, 이경구, 이용훈, 김용욱, 김한욱, 이직, 박일홍(성균관대 물리학과.)

P4-L003

Application of Artificial Neural Network to Search for Gravitational-Wave Signals Associated with Short Gamma-Ray Bursts / 이현규, 김경민, 김영민¹, 손재주², 오상훈², 오정근², 이창환¹, HARRY Ian³, HODGE Kari⁴(한양대학교, ¹부산대학교, ²국가수리과학연구소, ³AEI-Golm, Germany, ⁴Caltech, USA.)

P4-L004*

Thermal-Vacuum test of SCD for ISS-CREAM Experiment / LEE Gyung Goo, LEE Jik, PARK Il Hung, PARK Hwi Woo, JEON JinA¹, LEE Hye Young¹, CHOI Hyun Suk²(Department of physics, Sungkyunkwan Univ. ¹Basic Science Institute, Sungkyunkwan Univ. ²Korea Institute of Industrial Technology.)

P4-L005

Linear and Nonlinear Correlation Analysis for Auxiliary Channels of LIGO Gravitational-Wave Detector / 오정근, 오상훈, 손재주, 김영민¹, 김경민²(국가수리과학연구소, ¹부산대학교, ²한양대학교.)