

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: 노태원 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: 오정근 수리과학연

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

물리학 용어와 물리용어심의위 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: 이재일 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)에프알텍 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 시상은 '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: 이원종 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: 김수봉 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, 최선호⁵, 최원국⁵, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 박령균⁸, 김재률⁸, 소선행⁸, 송숙현⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김현수⁹, 김시연¹⁰, 고영주¹⁰(서울대학교, 물리학과. ¹경북대학교, ²광주과학기술원, ³동신대학교, ⁴서영대학교, ⁵서울대학교, ⁶성균관대학교, ⁷IBS/세종대, ⁸전남대학교, ⁹전북대학교, ¹⁰중앙대학교.)

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, 최선호, 최원국, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 박령균⁸, 김재률⁸, 소선행⁸, 송숙현⁸, 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, 김현옥², 김영덕², 박강순², 박항규², 이재승², 이정연², 전은주², KHAN Nasir², 김진우³, 마경주³, 김바로⁴, 김승찬⁴, 소선행⁴, 송숙현⁴, 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, 최선호, 최원국, 김우영¹, 선용근¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 박령균⁸, 김재률⁸, 소선행⁸, 송숙현⁸, 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] 입자물리학분과회 General Session: 현상론

2014년 10월 23일 목요일 09:00 - 10:15

장소: 201호

좌장: 이정일 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] 입자물리학분과회 General Session: 끈, 장론

2014년 10월 23일 목요일 11:00 - 12:00

장소: 201호

좌장: 김찬주 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] 입자물리학회분과회 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(IBS-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] 입자물리학회분과회 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 llnunu Production / NAM Soon-Kwon, KROPIVNITSKAYA 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 tt-bar 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] 입자물리학회/천체물리학회 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(SKU).)

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, YOON 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: 총돌실험 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 Aurore¹, 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. ²Mecharonics.)

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.)

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

Study of LAMBDA production in K0L+ A1 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: 남승일 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]

phi meson(1020) and $\Lambda(1520)$ resonance contribution in $\gamma p \rightarrow K^+ K^- p$ scattering process / 류희영, 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] 원자핵물리학회 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, 남승일(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] 원자핵물리학회 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, ¹BS, 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(과학기술연합대학원대학교, 방사선 계측 및 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, 김다희(Institute for Basic Science. ¹Institute for Basic Science/²이화여자대학교.)

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 Zeehoon³, 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 Univeristy.)

[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 / 흥병식, 김현철, 고연주, 김용선, 이기수, 이송교, 조미희(고려대학교.)

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

Central productions at ALICE, LHC with $\sqrt{s} = 7$ TeV energy / 김범규(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 $\sqrt{s_{\text{NN}}} = 5.02$ TeV with ALICE at the LHC / KIM Minjung, YOON Jin-Hee, KWEON MinJung(Inha University.)

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

Particle-yield modification 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, 박가영(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: 황정식 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 $\text{LiACr}_4\text{O}_8(\text{A}=\text{Ga},\text{In})$ / 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.)

응집물질물리학회 운영위원회

2014년 10월 22일 수요일 12:30 - 13:00

장소: 209호

[DG3] 응집물질물리학회 General Session: 나노-중시계

2014년 10월 22일 수요일 13:00 - 14:45

장소: 209/210호

좌장: 정윤철 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 Karupppannan, 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 MoS₂ 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] 응집물질물리학회 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] 응집물질물리학회 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. (Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea. 'Dresden 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] 응집물질물리학분과회 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] 응집물질물리학분과회 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.)

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 기계항공학부. 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] 응집물질물리학회 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 Hyung 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] 응집물질물리학회 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] 응집물질물리학회 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 / 우성중, 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.)

응집물질물리학회 총회

2014년 10월 23일 목요일 17:30 - 18:00

장소: 209호

[DF8] 응집물질물리학회 Focus Session: 바이오/무른물질/유기물, "생물물리 연구의 최근 동향"

2014년 10월 23일 목요일 09:00 - 10:45

장소: 211호

좌장: 홍성철 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] 응집물질물리학과회 Focus Session: 바이오/무른물질/유기물,
"생물물리 연구의 최근 동향"

2014년 10월 23일 목요일 11:00 - 12:45

장소: 211호

좌장: 홍성철 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.)

[DG7] 응집물질물리학회 General Session: 바이오/무른물질/유기물

2014년 10월 23일 목요일 14:00 - 15:45

장소: 211호

좌장: 이 남 기 포스텍

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.)

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.)

[DG8] 응집물질물리학분과회 General Session: 바이오/무른물질/유기물

2014년 10월 23일 목요일 16:00 - 17:31

장소: 211호

좌장: 윤태영 KAIST

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: 김기훈 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: 송태권 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 / 이순일(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.)

[DG9] 응집물질물리학분과회 General Session: 자성체

2014년 10월 23일 목요일 14:30 - 15:45

장소: 214호

좌장: 유 천 열 인하대

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, JÜRIG 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 뫼스바우어 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] 응집물질물리학회 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 SEULKI, 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 π -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 Sr_2VO_3FeAs / 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 Jhinwan, 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 / 김현탁(Hyun-tak)(ETRI, MIT Center.)

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

Electronic structures of CaC_6 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. McDonald,³ 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, ^{PO}STECH. 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] 응집물질물리학회분과회 General Session: 나노-중시계

2014년 10월 24일 금요일 09:00 - 10:45

장소: 209/210호

좌장: 도용주 고려대

DG-74(초) [09:00-09:30]

Identifying Kondo Cloud by Macroscopic Entanglement: Thermal Suppression and Spatial Extension / 이승섭, 박진홍, 심홍선(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, 박희철, 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: 심흥선 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. ¹세종대학교, 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] 응집물질물리학회 **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, 스피트로닉스센터. ³Physics Department, University of California at Berkeley.)

2014년 10월 22일(수) 응용물리학회 구두 발표

[EG1] 응용물리학회 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 Tokutarō³, 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, 권현수(아주대학교, 물리학과&에너지시스템학과. ¹아주대학교, 에너지시스템학과.)

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

단클론 항체를 이용한 프리모 연결망 관찰 연구(Observation of Primo Connectrome 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, 응용물리과. ²부산대, 물리학과. ³이화여대, 물리학과. ⁴한양대, 응용물리 및 생명나노공학과.)

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

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

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

Enhanced electrical mobility of (Ba,La)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, 이종광, 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, 황동목(성균관대학교 물리학과. ¹성균관대학교 나노기술원.)

[EG5] 응용물리학분과회 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: 홍승훈 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.)

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 Yeon, KIM Joo Hyung, 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 Pioneering Symposium: Soft X-ray Science with Free Electron Laser

2014년 10월 23일 목요일 09:00 - 10:40

장소: 302/303호

좌장: 문봉진 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] 응용물리학분과회 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 Soonam, KIM S. S., RAH S., KIM S. N., KIM Bongsoo(PAL-XFEL, POSTECH.)

[EG7] 응용물리학분과회 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 / 신중화, 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 Junho¹(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 / 김종현, 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] 응용물리학회 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] 응용물리학회/응집물질물리학회 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] 응용물리학회/응집물질물리학회 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, 김준서, 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, 김덕호, 제송근¹, 유상철¹, 전병선, 김원동, 민병철², QIU Z. Q.³, 최석봉¹, 황찬용(한국표준과학연구원, 나노측정센터. ¹서울대학교, 물리천문학부. ²한국과학기술연구원, 스피트로닉스센터. 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: 권철안 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 Haya¹, 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: 이남경 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, 정형채, 김범준(성균관대학교 물리학과. 세종대학교 물리학과.)

통계물리학과분과회 분과총회

2014년 10월 22일 수요일 16:30 - 17:00

장소: 212/213호

2014년 10월 23일(목) 통계물리학과분과회 구두 발표

[FG3] 통계물리학과분과회 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 Muyeong³, 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] 통계물리학회대회 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: 박수찬 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, YOON 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: 박종원 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: 조용섭 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, 정태문, 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, (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, 물리광학과. 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. ¹IBS, 고등광기술연구소, 광주과학기술원. ²IBS, 물리광학과, 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: 문세연 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: 노태협 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 / 이승헌, 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, 물리광학과과, 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 Resarch 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(토) [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 물리학과.)

JG-04* [09:55-10:10]

2D BEC under pressure / 박정혁, 조원영, 김상우(¹서강대학교, 물리학과, ¹고등과학원, 물리학과.)

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: 김진태 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 분자물리학회 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] 원자및분자물리학회/광학및양자전자학분과회 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] 원자및분자물리학회/광학및양자전자학분과회 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(토) [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(¹전북대학교 반도체과학기술학과. ²전북대학교 반도체화학공학부. ²한국과학기술연구원 전북분원 소프트혁신소재연구센터.)

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] 반도체물리학회 Focus Session: 광전소자 응용을 위한 콜로이드 양자점

2014년 10월 23일 목요일 11:00 - 12:00

장소: 305/306호

좌장: 김용민 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.)

반도체물리학회 분과총회

2014년 10월 23일 목요일 12:00 - 12:30

장소: 305/306호

좌장: 김은규 한양대

2014년 10월 24일(금) 반도체물리학회 구두 발표

[KP1] 5th KPS-CPS Joint Forum

2014년 10월 24일 금요일 09:15 - 11:30

장소: 305/306호

좌장: 송진동 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.)

K

2014년 10월 23일(목) 천체물리학분과회 구두 발표

[LG1] 천체물리학분과회 General Session

2014년 10월 23일 목요일 11:00 - 12:45

장소: 206호

좌장: 이정재 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. ³Universit  de Montr al. 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: 박일흥 성균관대

[LG2] 천체물리학분과회 General Session

2014년 10월 24일 금요일 09:00 - 10:30

장소: 206호

좌장: 이형원 인제대

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

How to Utilize Gravitational Waves for Astrophysics? / 김정리, 김정초¹, 이형원¹(경희대학교, KISTI, 인제대학교)

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

MTEL-2(MEMS Telescope for Extreme Lightning-2)/RELEC Instrument: Current Status & Space data / 전진아, 박일홍¹, 이직(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.)