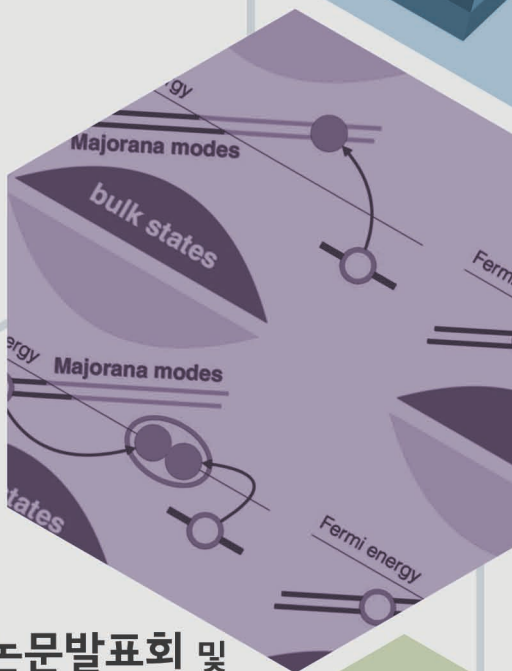
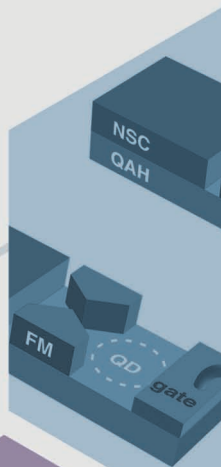


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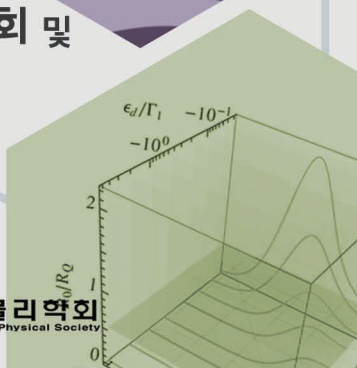
한국 물리학회

회보 The Korean
Physical Society



2015 봄 학술논문발표회 및
제 91회 정기총회

2015. 4. 22(수) ~ 24(금)
대전컨벤션센터



The Korean Physical Society

구두발표논문 시간표

Plenary I

2015년 4월 22일 수요일 17:00 – 18:00

장소: 301호

좌장: 박 제 근 서울대

Quasi-Periodic Materials – Crystal Redefined / SHECHTMAN D. (Technion, Haifa, Israel and ISU, Ames, Iowa, USA, Currently on Sabbatical at SNU.)

Crystallography has been one of the mature sciences. Over the years, the modern science of crystallography that started by experimenting with x-ray diffraction from crystals in 1912, has developed a major paradigm – that all crystals are ordered and periodic. Indeed, this was the basis for the definition of “crystal” in textbooks of crystallography and x-ray diffraction. Based upon a vast number of experimental data, constantly improving research tools, and deepening theoretical understanding of the structure of crystalline materials no revolution was anticipated in our understanding the atomic order of solids. However, such revolution did happen with the discovery of the Icosahedral phase, the first quasi-periodic crystal (QC) in 1982, and its announcement in 1984. QCs are ordered materials, but their atomic order is quasiperiodic rather than periodic, enabling formation of crystal symmetries, such as icosahedral symmetry, which cannot exist in periodic materials. The discovery created deep cracks in this paradigm, but the acceptance by the crystallographers' community of the new class of ordered crystals did not happen in one day. In fact it took almost a decade for QC order to be accepted by most crystallographers. The official stamp of approval came in a form of a new definition of “Crystal” by the International Union of Crystallographers. The paradigm that all crystals are periodic has thus been changed. It is clear now that although most crystals are ordered and periodic, a good number of them are ordered and quasi-periodic. While believers and nonbelievers were debating, a large volume of experimental and theoretical studies was published, a result of a relentless effort of many groups around the world. Quasi-periodic materials have developed into an exciting interdisciplinary science. This talk will outline the discovery of QCs and describe the important role of electron microscopy as an enabling discovery tool.

Plenary II

2015년 4월 23일 목요일 13:00 – 14:00

장소: 301호

좌장: 여인환 연세대

The Nobel Prize and the Future of Science / GIAEVER Ivar(Norwegian Institute of Technology, Rensselaer Polytechnic Institute.)

In the year 2001 the Swedish people celebrated the 100 years anniversary of the Nobel Prize. During this period science has changed remarkably. In this talk I will explain how the Nobel Prize came about and give my personal views about where I think science is headed in the future. It is my belief that most fundamental laws of science are known, but that scientists are still needed to sort out details and to make new inventions.

노벨상의 지난 100 여 년을 돌아보는 Giaever 교수님의 기조강연은 연세대 물리학과와 지원으로 이루어졌습니다. 기조강연에 앞서 황정남 연세대 명예교수님께서 한국물리학 100 주년 (근대 물리학의 도입)에 대해 15분간 발제강연을 하시고, Giaever 교수님께서 45분간 기조강연을 하실 것입니다.

2015년 4월 22일(수) 학회주관세션

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

2015년 4월 22일 수요일 13:00 – 15:00

장소: 104호

좌장: 임 혜 인 숙명여대

[13:00-13:10]

인사말 및 WISET 소개 / 유경화(여성위원장, 연세대 교수.)

[13:10-13:40]

집단 연구과제 수행과 연구 역량 강화 / 서은경(전북대 교수.)

[13:40-14:10]

연구재단 과제, 이렇게 준비하라 !! / 김동호(영남대학교.)

[14:10-14:30]

Gendered Innovation in Science and Technology / 박영아(KISTEP 원장.)

[14:30-15:00]

다과 및 토의

APCTP authors lecture

2015년 4월 22일 수요일 15:00 – 16:45

장소: 105호

좌장: 이 강 영 경상대

[15:00-15:45]

우리 해성 이야기 / 안상현(한국천문연구원.)

[15:45-16:30]

생명을 어떻게 이해할까? / 장희익(서울대 명예교수.)

Lecture for graduate student

2015년 4월 22일 수요일 18:00 – 19:00

장소: 206호

좌장: 이 성 준 표준원

[18:00-19:00]

물리학과 출신 특허심사관이 들려주는 <발명과 특허권의 실제> / 부경호(국가지식재산위원회.)

KPS Forum on the Future of Physics Education and Research

2015년 4월 22일 수요일 13:00 – 14:45

장소: 301호

좌장: 남 순 건 경희대

[13:00-13:10] 인사말

[13:10-13:25] 발표1

21세기 중등 물리교육의 발전 방향 / 정진수(충북대학교 물리학과.)

[13:25-13:40] 발표2

학회본부의 발전방안 / 남순건(경희대.)

[13:40-13:55] 발표3

중소 물리학과와의 경쟁력 제고 정책 / 이공원(고려대학교.)

[13:55-14:10] 발표4

지부활성화를 위한 큐슈 사례 / 조성래(울산대.)

[14:10-14:45] 토론

The forum of the committee on the science policy

2015년 4월 22일 수요일 15:00 – 16:45

장소: 301호

좌장: 이 공 원 고려대

[15:00-15:05]

인사말 / 김승환(한국물리학회 회장.)

[15:05-15:10] 축하

[15:10-15:40]

우리나라 기초연구 이대로 좋은가? / 박영아(KISTEP 원장.)

[15:40-16:00] 패널 토론

[16:00-16:25] 질문과 답변

Open KIAS lecture

2015년 4월 23일 목요일 14:00 – 15:30

장소: 301호

좌장: 고 병 원 KIAS

[14:00-15:30]

인터스텔라 영화 속의 물리 :나는 왜 “인터스텔라”를 봐야만 했는가 / 이창환(부산대학교.)

Public lecture I

2015년 4월 23일 목요일 16:00 – 17:00

장소: 301호

좌장: 김 준 성 포스텍

[16:00-17:00]

물리학자, 원자를 보다 / 송영재(성균관대학교.)

Public lecture II

2015년 4월 23일 목요일 19:00 – 20:30

장소: 301호

좌장: 전 응 진 KIAS

[19:00-19:40]

A Tale of Two Pulsars / 박명구(경북대학교, 천문대기학과.)

[19:40-20:30]

전자와 광자의 놀이마당, 반도체 / 전헌수(서울대학교, 물리천문학부.)

SESSION A

2015년 4월 22일(수)

[A1-nu] Nuclear Structure

2015년 4월 22일 수요일 13:00 – 14:45

장소: 101호

좌장: 조 성 태 강원대

A1.01 [13:00-13:15]

β gamma-spectroscopy of Neutron-rich ^{138}Te beyond Doubly-magic ^{132}Sn / 이필수, 이춘식, 문창범¹, EURICA COLLABORATION²(중앙대학교 물리학과, ¹호서대학교, ²RIKEN, Nishina Center.)

A1.02* [13:15-13:30]

Spectroscopy of ^{17}C via one-neutron knockout reaction of ^{18}C / KIM Sunji, SAMURAI DAYONE Collaboration¹(Seoul National University, Department of Physics and Astronomy, ¹Seoul National University, LPC-Caen, Tokyo Institute of Technology, RIKEN Nishina Center, Tohoku University, Rikkyo University, Kyoto University, TU-Darmstadt, GANIL, University of York, IPN-Orsay.)

A1.03 [13:30-13:45]

Single particle structures of ^{19}C and ^{23}O / SATO Yoshiteru, HWANG Jongwon, KIM Sunji, SAMURAI DayOne Collaboration¹(Seoul National University, Department of Physics and Astronomy, ¹LPC-Caen, Tokyo Tech, RIKEN Nishina Center, Tohoku University, Rikkyo University, Kyoto University, TU-Darmstadt, GANIL, GSL, University of York, IPN-Orsay.)

A1.04 [13:45-14:00]

Nuclear Chart from $Z=8$ to $Z=120$ using Relativistic Continuum Hartree Bogoliubov theory / LIM YEUNHWAN, MENG JIE¹(IBS/RISP, ¹State Key Laboratory of Nuclear Physics and Technology, School of Physics, Peking University, Beijing 100871, China.)

A1.05 [14:00-14:15]

The modified chiral order counting effects in three nucleon system / SONG Young-Ho, KIM Youngman, LAZAUSKAS Rimantas¹, VAN KOLCK Bira²(IBS, RISP, ¹IPHC, IN2P3-CNRS/Universit'e Louis Pasteur, ²Orsay, IPN & Arizona U.)

A1.06 [14:15-14:30]

Proton-neutron pairing in the deformed BCS approach / HA EUNJA, CHEOUN MYUNG-KI(숭실대학교.)

A1.07 [14:30-14:45]

One-neutron knockout reaction from ^{20}C / 황종원, SAMURAI Collaboration¹(서울대학교, ¹RIKEN, RIBF.)

[A1-nu] Hadron Physics

2015년 4월 22일 수요일 15:00 – 16:50

장소: 101호

좌장: 최 선 호 서울대

A1.08(초) [15:00-15:20]

Charmonium production in heavy ion collisions / CHO Sungtae (Kangwon National University.)

A1.09 [15:20-15:35]

Photoproduction of $\Lambda(1405)$ with the two-pole structure / 남승일, 조현규(부경대학교.)

A1.10 [15:35-15:50]

Photoproduction of vector meson from threshold up to the Regge realm / 유병길, 최태근¹, 공국진(항공대학교 인문자연학부, ¹연세대학교 물리학과.)

A1.11 [15:50-16:05]

Spin-parity determination of $\Xi(1690)$ from $K-p \rightarrow \Lambda K + K$ -reaction near threshold / 안정근(고려대학교, 물리학과.)

A1.12 [16:05-16:20]

Momentum Sharing in Imbalanced Fermi Systems / KIM Wooyoung, HEN Or¹, WEINSTEIN Lawrence², BURKERT Volker³, KIM Andrey, STEPANYAN Samuel(Department of Physics, Kyungpook National University (CLAS Collaboration). ¹Tel Aviv University (CLAS Collaboration). ²Old Dominion University(CLAS Collaboration). ³Thomas Jefferson National Accelerator Facility (CLAS Collaboration).)

A1.13 [16:20-16:35]

The $\$nn\Lambda\$$ bound state in pionless effective theory / ANDO Shung-Ichi, OH Yongsek¹, RAHA Udit²(Sunmoon University, Department of Information Communication and Display Engineering. ¹Kyungpook National University, Department of Physics. ²Indian Institute of Technology Guwahati, Department of Physics.)

A1.14 [16:35-16:50]

A Parton Cascade with HERWIG / 신기량(안동대학교, 물리학과.)

[A2-nu] Particle Detectors

2015년 4월 22일 수요일 13:00 - 14:30

장소: 102호

좌장: 권영관 IBS

A2.01 [13:00-13:15]

Recovery of the CaMoO₄ crystal for the neutrinoless double beta decay experiment / SUJITA Karki, H.K Park¹, H.J Kim²(경북대학교, IBS, ¹IBS, ²경북대학교.)

A2.02* [13:15-13:30]

Expected Performance of the J-PARC E42 Spectrometer for H-Dibaryon Search / 김신형, 김민호, 이종원, 안정근, 홍병식, 황상훈¹, IMAI K.¹, SAKO H.¹, HASEGAWA S.¹(고려대학교, ¹JAEA.)

A2.03* [13:30-13:45]

Development of Forward Aerogel Cherenkov Detector for the H-Dibaryon Search Experiment (E42) at J-PARC / 김민호, 안정근, 홍병식, 이종원, 김신형, 황상훈¹, K. Imai¹, H. Sako¹, S. Hasegawa¹(고려대학교, ¹JAEA.)

A2.04 [13:45-14:00]

Development of MICROMEGAS detector for alpha from ²⁴¹Am source / KIM Do Yoon, SHIN Jae Won, ANDRIAMONJE Samuel¹, PARK Tae-Sun, KADI Yacine¹, TENREIRO Claudio², HONG Seung-Woo(Department of Physics, Sungkyunkwan University, Suwon 440-746, Republic of Korea. ¹CERN CH-1211 Geneva, Switzerland. ²Faculty of Engineering, University of Talca, Talca 3465548, Chile.)

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

Status of the software development for S π RIT-TPC / 이정우, 장진희, 홍병식(고려대학교.)

A2.06 [14:15-14:30]

Compton-suppressed Gamma-ray Detector Array at Institute for Basic Science / 이필수, 권영관¹, 이주한¹, 문준영¹, 박준식¹, 채현우¹, 손재범¹, 정인일¹, 박진형¹, NIKOLETTA Vonta¹, AKERS Charlie¹, HASHIMOTO Takashi¹, 이춘식², 김용균³, 문창범⁴, 이광복¹, 추경호¹(기초과학연구원, 중앙대학교 물리학과, ¹기초과학연구원, ²중앙대학교 물리학과, ³한양대학교 원자력공학과, ⁴호서대학교.)

[A2-nu] Relativistic Heavy Ion Physics I

2015년 4월 22일 수요일 15:00 - 16:45

장소: 102호

좌장: 박 태 선 성균관대

A

A2.07* [15:00-15:15]

J/psi production in pPb collisions from CMS / 이송교, 김용선, 김현철, 이기수, 조미희, 홍병식(고려대학교.)

A2.08 [15:15-15:30]

Renormalization of dimension 6 gluon operators / 김형주, 이수형(연세대학교.)

A2.09* [15:30-15:45]

Some improvement on nuclear symmetry energy in QCD degree of freedom / 정기상, 이수형(연세대학교.)

A2.10 [15:45-16:00]

Multiplicity dependence of long and short-range two-particle correlation in $\sqrt{s}=7\text{TeV}$ proton-proton collisions at LHC-ALICE experiment / BHOM Jihyun(University of Tsukuba.)

A2.11 [16:00-16:15]

Rare Isotope Bean Production using by Multi-nucleon Transfer Reaction at the KOBRA / CHAE Hyunwoo, SOULIOTIS Georgios¹, TSHOO Kyoungcho², KWON Youngkwan², MOON Junyoung², PARK Junesic², HASHIMOTO Takashi², LEE Kwangbok², KIM Young-kyun³, CHOI Seonho(Department of Physics & Astronomy, Seoul National University. ¹Department of Chemistry, National and Kapodistrian University of Athens. ²Rare Isotope Science Project, Institute for Basic Science. ³Department of Nuclear Engineering, Hanyang University.)

A2.12 [16:15-16:30]

Yield Estimation Of Neutron-rich Rare Isotopes Induced By 200 MeV/u ^{132}Sn Beams By Using GEANT4 / SHIN Jae Won, MIN Kyung Joo¹, HAM Cheolmin¹, PARK Tae-Sun², HONG Seung-Woo², CHEOUN Myung-Ki(Department of Physics, Soongsil University. ¹Department of Energy Science, Sungkyunkwan University. ²Department of Physics, Sungkyunkwan University.)

A2.13* [16:30-16:45]

Unitarity in effective field theory regulators for the description of low energy NN scattering / IN EunJin, PARK TaeSun¹, HONG Seong-woo¹(Sungkyunkwan university, Energy science department. ¹Sungkyunkwan university, Physics department.)

[A3-se] Semiconductor General session

2015년 4월 22일 수요일 13:00 – 14:15

장소: 103호

좌장: 박 두 재 한림대

A3.01* [13:00-13:15]

Direct Growth of High-quality GaN Layer on Carbon Nanotube-Graphene Hybrid Structure as Intermediate Layer / PARK Ah Hyun, SEO Tae Hoon¹, KIM Yong Hwan², LEE Gun Hee, KIM Myung Jong¹, JEONG Mun Seok², LEE Young Hee², HAHN Yoon-Bong, SUH Eun-Kyung(School of Semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Chonbuk National University, Jeonju 561-756, Republic of Korea. ¹Soft Innovative Materials Research Center, Korea Institute of Science and Technology, Jeonbuk 565-905, Republic of Korea. ²Department of Energy Science, Sungkyunkwan University, Suwon, Kyeonggi 440-746, Republic of Korea.)

A3.02* [13:15-13:30]

Probing the layer dependent transition of phonon dynamics in MoS₂ atomic layers / KIM JaeHyeon, KIM JongHun, LEE JinHwan¹, LEE ChangGu¹, LYO HoKi², PARK JeongYoung(KAIST, Graduate School of EEWS and IBS, Center for Nanomaterials and Chemical Reactions. ¹Sungkyunkwan University, Mechanical Engineering. ²Korea Research Institute of Standards and Science.)

A3.03* [13:30-13:45]

Enhanced Quantum Efficiency Driven by Hot Carrier Multiplication in Graphene/Semiconductor Nanodiode / LEE Young Keun, CHOI Hongkyw¹, LEE Hyunsoo, LEE Changhwan, CHOI Jin Sik¹, HWANG Euyheon², PARK Jeong Young(KAIST, EEWS. ¹ETRI. ²SKKU.)

A3.04 [13:45-14:00]

그래핀/실리콘 양자점 이종접합구조 광검출소자 / 김성, 신동희, 김정현, 김종민, 최석호, 김경중(경희대 응용물리학과. ¹한국표준과학연구원.)

A3.05 [14:00-14:15]

Environmentally Stable Hybrid Electrode Based on Carbon Nanotube and Graphene for Ultra-violet Light Emitting Diodes / SEO Tae Hoon, LEE Gun Hee¹, PARK Ah Hyun¹, CHO Hyunjin, LEE Seula, MIN Kyung Hyun¹, KIM Myung Jong, SUH Eun-Kyung¹(Soft Innovative Materials Research Center, Korea Institute of Science and Technology, Jeonbuk 565-905, South Korea. ¹School of Semiconductor and Chemical Engineering, Semiconductor Physics Research Center, Chonbuk National University, Jeonju 561-756, South Korea.)

[A3-se] Focus: Chiral materials

2015년 4월 22일 수요일 14:30 – 15:45

장소: 103호

좌장: 최 석 호 경희대

A3.06 [14:30-14:55]**Computational Study of Defect Structures in Two Dimensional Materials** / LEE Gun-Do(Department of Materials Science and Engineering, Seoul National University.)**A3.07** [14:55-15:20]**Exotic Electronic transports via Majorana Fermions in Topological Superconductors** / LEE Minchul(Department of Applied Physics, Kyung Hee University.)**A3.08** [15:20-15:45]**Carrier screening, transport, and relaxation in chiral 3D Dirac semimetals** / HWANG Euyheon(SKKU Advanced Institute of Nanotechnology and Department of Physics.)**[A3-se] Focus: Chiral materials**

2015년 4월 22일 수요일 16:00 – 16:50

장소: 103호

좌장: 황 의 현 성균관대

A3.09 [16:00-16:25]**Intrinsic transport properties of graphene** / PARK Cheol-Hwan (Department of Physics, Seoul National University.)**A3.10** [16:25-16:50]**플렉서블 이미징 소자 개발 및 그래핀 응용 연구** / 이경열, 라용주, 장성환, 정(JUNG)인화(Inhwa)(경희대학교, 기계공학과.)**[A4-ap] Tutorial : Electronic Transport in Nanoscale**

2015년 4월 22일 수요일 11:00 – 12:15

장소: 104호

좌장: 이 상 욱 건국대

A4.01 [11:00-12:15]**Electronic Transport in Nanoscale Structures (나노구조의 전기 전도 현상)** / 이탁희(서울대학교.)

[A4-ap] General Session: Organic Nanoelectronics

2015년 4월 22일 수요일 13:00 – 14:45

장소: 104호

좌장: 이 탁 희 서울대

A4.02* [13:00-13:13]

Organic photomemory with flash-like operation / KIM, Mincheol, SEONG, Hyejeong¹, LEE, Seungwon, KWON, Hyukyun, IM, Sung Gap¹, YOO, Seunghyup(KAIST, Electrical Engineering. ¹KAIST, Chemical and Biomolecular Engineering.)

A4.03* [13:13-13:26]

Determination of the individual atomic site contribution to the electronic structure of hexaazatriphenylene hexacarbonitrile (HAT-CN) / KIM Minsoo, LEE Sangho, HEO Nari, LEE Nalae, JUNG Yunwoo, KIM Jonghoon, CHO Sang Wan, NEWBY Dave¹, SMITH Kevin¹(Yonsei University, Department of Physics. ¹Boston University, Department of Physics.)

A4.04* [13:26-13:39]

Two approaches to improve the performance of quantum-dot light emitting diodes / LEE Sang Moo, CHO Nam-Kwang, CHO Jae Eun, KANG Seong Jun(Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University.)

A4.05* [13:39-13:52]

Study of interface at Donor-Acceptor Bilayer Formed by Electropray Vacuum Deposition in Polymer Organic Solar Cells / KIM Ji-Hoon, HONG Jong-Am, KWON Dae-Gyeon, SEO Jaewon, MAENG Min-Jae, LEE Seungjun, SAKONG Jeonghun, PARK Yongsup(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University.)

A4.06* [13:52-14:05]

Energy level alignments at ITO/PEDOT:PSS/PTB7/PC71BM studied with photoemission and inverse photoemission spectroscopy / 박수형, 정준경, 김민주, 현경호, 이연진(연세대학교.)

A4.07* [14:05-14:18]

Non-quasistatic measurement for charge transport properties of single-walled carbon nanotube thin film transistors / SHIN Hyeonwoo, PARK Su-Yeon, HA Tae-Jun¹, LEE Changhee(Seoul National University, Department of Electrical Engineering and Computer Science. ¹Kwangwoon University, Department of Electronic Materials Engineering.)

A4.08* [14:18-14:31]

Photolithographic fabrication of 4K-bit-integrated microscale organic nonvolatile resistive memory devices / SONG Younggul,

A4.09* [14:31-14:44]

Study for Energy Tailoring of Self-Organized HELs (SOHELs) to Midgap States of Perovskite and Boosting the Power Conversion Efficiency of Perovskite Solar / 임경근, 김학범¹, 정재기¹, 김진영¹, 이태우(POSTECH, Materials Science and Engineering. ¹UNIST, Department of Energy Engineering.)

[A4-ap] Focus: Dimensional Properties Materials

2015년 4월 22일 수요일 15:00 – 16:45

장소: 104호

좌장: 김진교 경희대

A4.10 [15:00-15:15]

다중차원물성 시스템의 비파괴 검사 / 김영동, 김태중, 남구현, BARANGE Nileshe, 박한결, 박재찬, LE Van Long(경희대학교 물리학과.)

A4.11 [15:15-15:30]

Graphene and hBN substrates for deposition of small organic molecules and their applications for transistors / KIM Kwanpyo(Department of Physics, Ulsan National Institute of Science and Technology (UNIST).)

A4.12 [15:30-15:45]

Effect of Interlayer Interaction on Exciton Luminescence in Atomic-layered MoS₂ Crystals / 조창희, 김정곤, 윤원석, 조성환, 이재동(대구경북과학기술원, 신물질과학전공.)

A4.13* [15:45-16:00]

Anomalous excitonic resonance Raman effects in molybdenum disulfide / LEE Jae-Ung, PARK Jaesung, SON Young-Woo, CHEONG Hyeonsik(Department of Physics, Sogang University.)

A4.14* [16:00-16:15]

Identifying crystallographic orientation of black phosphorus / KIM Jungcheol, LEE Jae-Ung, LEE Jinhwan¹, LEE Changgu¹, CHEONG Hyeonsik(Sogang university, Department of physics. ¹Sungkyunkwan university, Department of mechanical engineering and center for human interface nano technology.)

A4.15* [16:15-16:30]

Selective Growth of Graphene on a Cu Foil by Using a Spontaneous Pattern Transfer / 이상화, 주미연, 장동수, 윤한섭, 김진교(경희대, 물리학과.)

A4,16* [16:30-16:45]

Advanced Transfer Technique for Multi-Stacking of Low-Dimensional Nano Materials / YUN Hoyeol, LEE Jeonghyeon, LEE Sang Wook(Division of Quantum Phases & Devices, School of Physics, Konkuk University.)

[A6-co] Focus: Surface/Interface of graphene and topological insulators I

2015년 4월 22일 수요일 13:00 – 14:45

장소: 106호

좌장: 박 정 영 KAIST

A6,01 [13:00-13:30]

Tunneling Spectroscopy Studies of Single and Bilayer Graphene Devices with hBN as Tunneling Insulator / JUNG Suyong(Korea Research Institute of Standard and Sciences, Center for Quantum Measurement Science.)

A6,02 [13:30-14:00]

Low Temperature Scanning Probe Microscopy on Two-Dimensional and Topological Material Systems / SUH Hwansoo, JEON Insu, KWON Hyeokshin, KIM Hyo Won, KO Wonhee, OH Youngtek, KU JiYeon, HWANG Sung Woo(Samsung Advanced Institute of Technology.)

A6,03 [14:00-14:30]

Spatially-resolved One-dimensional Interfacial States formed by Two-dimensional Heteroepitaxy / PARK Jewook(Oak Ridge National Laboratory, USA.)

A6,04 [14:30-14:45]

Electrical Doping by MoS₂ Triangular Adclusters on Monolayer MoS₂ / RYOU Junga, KIM Yong-Sung(Korea Research Institute of Standards and Science.)

[A6-co] Surface/Interface/Nano-material I

2015년 4월 22일 수요일 15:00 – 16:45

장소: 106호

좌장: 서 환 수 삼성중기원

A6,05* [15:00-15:15]

Robustness of Topological Surface State and Doping Effect of the H₂O Adsorption on the Bi₂Se₃ (111) Surface / SHIN Eun-Ha, KIM Hanchul(Department of Physics, Sookmyung Women's University.)

A6.06* [15:15-15:30]

Overlap of Charge Ordering in Symmetry Broken IrTe₂ / KIM Hyo Sung, KIM Soo-Ran¹, KIM Kyoo¹, MIN Byung Il¹, CHO Yong-Heum², CHEONG Sang-Wook³, YEOM Han Woong(Center for Artificial Low Dimensional Electronic Systems, IBS and Department of Physics, POSTECH, Korea. ¹Department of Physics, POSTECH, Korea. ²Department of Physics, POSTECH, Korea and Laboratory for Pohang Emergent Materials and Department of Physics, POSTECH, Korea. ³Department of Physics, POSTECH, Korea and Laboratory for Pohang Emergent Materials, POSTECH, Korea and Rutgers Center for Emergent Materials and Department of Physics and Astronomy, USA.)

A6.07* [15:30-15:45]

Schottky barrier heights and effective work functions at various TiAlN/HfO₂ interfaces / KIM Geun-myeong, OH Young Jun, CHANG Kee Joo(Korea Advanced Institute of Science and Technology, Department of Physics.)

A6.08* [15:45-16:00]

Ytterbium-driven strong enhancement of electron-phonon coupling in graphene / 황진웅, 황춘규, 김덕영¹, D. A. Siegel², KEVIN T. Chan², J. Noffsinger², A. V. Fedorov³, MARVIN L. Cohen², BORJE Johansson⁴, J. B. Neaton⁵, A. Lanzara²(부산대학교, 물리학과. ¹Geophysical Laboratory, Carnegie Institution of Washington, Washington, DC. ²Department of Physics, University of California, Berkeley, Berkeley, California. ³Advanced Light Source, Lawrence Berkeley National Laboratory, Berkeley, California. ⁴The Molecular Foundry, Lawrence Berkeley National Laboratory, Berkeley, California. ⁵Kavli Energy Nanosciences Institute at Berkeley, Berkeley, California.)

A6.09* [16:00-16:15]

The Kibble-Zurek Mechanism applied to The Quenching Dynamics of One-dimensional Topological Superconductors with Open Ends / 이민철, 한승주¹, 최만수¹(Department of Applied Physics and Institute of Natural Science, College of Applied Science, Kyung Hee University, Yongin 446-701, Korea. ¹Department of Physics, Korea University, Seoul 136-701, Korea.)

A6.10* [16:15-16:30]

The Origin of n- and p-type Doping of Graphene with Dipolar Polymers: A First-Principles Study / LEE Eui-Sup, KIM Yong-Hyun(Graduate School of Nanoscience and Technology, KAIST.)

A6.11 [16:30-16:45]

Changing Metallic to Insulating Electronic Structure of Graphene on SiC(0001) via Intercalation/Deintercalation of Alkali-metal (Na) between Epitaxial Graphene and SiC substrate using Ionic Interaction with Deposited Tetrafluoro-tetracyanoquinodimethane (F4-TCNQ) / 신하철, 안성준, 안종렬(성균관대학교 물리학과.)

[A7-co] Magnetism I

2015년 4월 22일 수요일 13:00 - 14:15

장소: 107호

좌장: 이 기 석 UNIST

A7.01* [13:00-13:15]

Magnetic configurations and magnetocrystalline anisotropy of FeCr thin films / JEKAL Soyoung, RHIM S. H., HONG Soon Cheol(울산대학교 물리학과.)

A7.02* [13:15-13:30]

Dynamics of magnon in Dzyaloshinskii-Moriya magnet and its manifestation in magnon-Skyrmion scattering / OH Yun-Tak, LEE Hyunyong, PARK Jin-Hong¹, HAN Jung Hoon(성균관대학교, 물리학과. ¹RIKEN, Center of Emergent Matter Science.)

A7.03* [13:30-13:45]

3d, 4d, 5d 전이금속을 이용한 Co 수직 자성 초박막의 스핀궤도 돌림힘과 Dzyaloshinskii-Moriya 상호작용 / 조정구, 김대연, 황현석, 윤상준, 김덕호, 제승근, 문준, 최석봉, 오영완¹, 박병국¹(서울대학교, 물리학과. ¹KAIST, 신소재공학부.)

A7.04* [13:45-14:00]

Manipulation of magnetic state in phosphorene layer by non-magnetic impurity doping / IMRAN Khan, HONG Jisang(Department of Physics, Pukyong National University.)

A7.05* [14:00-14:15]

내열성 수직 자기 이방성 다중박막 [Co3Å/Pd3Å]m 의 연 x-선 방사광 분광 연구 / 김대현, 이은숙, 김현우, 강정수, 이자빈¹, 홍진표¹, 이한구², 김재영²(가톨릭대학교, 물리학과. ¹한양대학교, 물리학과. ²포항공속기연구소.)

[A7-co] Magnetism II

2015년 4월 22일 수요일 15:00 - 16:15

장소: 107호

좌장: 송 종 현 충남대

A7.06 [15:00-15:15]

New degree of freedom of spin-transfer torque on domain-walls / 제승근, 유상철, 김주성, 문준, 민병철¹, 최석봉(서울대학교, 물리학과. ¹한국과학기술연구원, 스핀융합센터.)

A7.07 [15:15-15:30]

Effects of different annealing atmospheres on magnetic properties in La₂CoMnO₆ single crystals / CHOI Y.J., OH D.G., KIM M.K., MOON J.Y., CHOI H.Y., OH S.H., LEE N.(연세대학교.)

A7.08 [15:30-15:45]

Ferromagnetism of multilayer graphene in the presence of magnetic impurities / 민홍기(서울대학교 물리천문학부.)

A7.09 [15:45-16:00]

Magnetism and magnetocrytalline anisotropies of ordered L1₀ MnPt and CrPt alloy: A first principles study / HONG Soon Cheol, RHIM S. H., AIN Qurat-ul(University of Ulsan, department of Physics.)

A7.10 [16:00-16:15]

Strain effect on magnetic anisotropy in 5d TM/Fe/MgO(001) (TM=Ta and Pt): A first principles study / TAIVANSKIKHAN Purev, ODKHUU Dorj¹, RHIM Sung Hyun, HONG Soon Cheol¹(University of Ulsan, Department of Physics. ¹University of Incheon, Department of Physics.)

응집물질물리학과 운영위원회

2015년 4월 22일 수요일 12:30 – 13:00

장소: 108호

[A8-co] Bio/Soft-condensed/Organic materials I

2015년 4월 22일 수요일 13:00 – 14:45

장소: 108호

좌장: 홍 성 철 서울대

A8.01 [13:00-13:15]

High-Contrast Optical Imaging of Domain Structures of Close-Packed Microsphere Film / 김준현, 박정수(Advanced Photonics Research Institute, GIST.)

A8.02 [13:15-13:30]

Primary Hepatocytes Imaging by Multiphoton Luminescent Graphene Quantum Dots / KIM Bo-Hyun, SONG Sung Ho, JEON Seokwoo(KAIST.)

A8.03* [13:30-13:45]

Curvature Asymmetry in Water Coalescence / LIM Su Jin, GIM Bopil¹, FEZZAA Kamel², WEON Byung Mook³(Sungkyunkwan University, School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT). ¹Korea Advanced Institute of Science and Technology (KAIST), Department of Bio and Brain Engineering. ²X-ray Science Division, Advanced Photon Source, Argonne National Laboratory. ³School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University.)

A8,04* [13:45-14:00]

X-ray Imaging of a Drying Colloid Particle / CHO Kun, HWANG In Gyu, PARK Jung Soo¹, KIM Joon Heon¹, LIM Jun², WEON Byung Mook(Sungkyunkwan University, School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT). ¹Advanced Photonics Research Institute, Gwangju Institute of Science and Technology, Gwangju Institute of Science and Technology, Gwangju 500-712. ²Beamline Division, Pohang Light Source, Hyoja, Pohang, Kyung-buk 790-784.)

A8,05* [14:00-14:15]

Slowly drying of dense coffee drops / KIM Jin Young, RYU Seul-a, KIM So Youn¹, WEON Byung Mook(School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University. ¹School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology (UNIST).)

A8,06* [14:15-14:30]

Coalescence Preference Blocked by Dense Packing of Bubbles / KIM Yeseul, LIM Su Jin, GIM Bopil¹, WEON Byung Mook²(Sungkyunkwan University, School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT). ¹Department of Bio and Brain Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon 305-701, Korea. ²Sungkyunkwan University, School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT).)

A8,07* [14:30-14:45]

Gelation-Induced Crack Prevention in Colloidal Films / RYU Seul-a, KIM Jin Young, KUN Cho, KIM So Youn¹, WEON Byung Mook(SKKU, School of Advanced Materials Science and Engineering, Advanced Institute of Nanotechnology (SAINT). ¹Ulsan National Institute of Science and Technology (UNIST).)

[A8-co] Bio/Soft-condensed/Organic materials II

2015년 4월 22일 수요일 15:00 – 16:30

장소: 108호

좌장: 이 종 봉 포항공대

A8,08 [15:00-15:15]

Spring-loaded Unraveling Of A Single SNARE Complex By NSF in One Round Of ATP Turnover / 류제경, 나상현, 민두영, 현창봉¹, JAHN Reinhard², 윤태영(한국과학기술원, 물리학과. ¹한국고등과학원. ²Max-Planck-Institute, Biophysical chemistry.)

A8.09 [15:15-15:30]

An optical tweezers combined with single-molecule three-color FRET / 이상화, 홍성철(광주과학기술원, 고등광기술연구소, ¹서울대학교, 물리천문학부.)

A8.10 [15:30-15:45]

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

A8.11* [15:45-16:00]

Prediction of cancer drug response using single-molecule co-immunoprecipitation / YOON Tae-young, LEE Hongwon, CHOI Byungsan, CHA minkwon, SHON jinyoung¹, KANG Hanna¹, CHO byungchol¹(KAIST, ¹Yonsei hospital.)

A8.12* [16:00-16:15]

Reconstitution of RNA Transcription Machinery and Co-transcriptional effect on TPP riboswitch / UHM Heesoo, HOHNG Sungchul(Seoul National University, Department of Physics and Astronomy.)

A8.13* [16:15-16:30]

Single-Molecule Force-Fluorescence Spectroscopy in Living Cell / LEE Jong-Bong, CHANG Minhyeok, OH jungsic, KIM Byungju(Department of Physics, POSTECH, Pohang, Korea.)

E [A9-co] Pioneer: DFT and beyond for accelerated materials design and discovery

2015년 4월 22일 수요일 13:00 – 14:45

장소: 201호

좌장: 김 용 훈 KAIST

A9.01 [13:00-13:30]

Informatics modeling used to leverage first-principles computation for accelerated materials discovery / N. SUKUMAR(Rensselaer Exploratory Center for Cheminformatics Research and Department of Chemistry and Chemical Biology, Rensselaer Polytechnic Institute.)

A9.02 [13:30-14:00]

Bioinformatics, cheminformatics, and materials informatics / 조은성(Department of Bioinformatics, Korea University, 2511 Sejong-ro, Sejong, 339-700, Korea.)

A9.03 [14:00-14:30]

Porous materials screening for gas storage and separation applications / KIM Jihan(카이스트, 생명화학공학과.)

A9.04 [14:30-14:45]

Band topology and temperature-dependent behavior of mixed-valent SmS: a DFT+DMFT study / KANG Chang-Jong, CHOI Hong Chul, KIM Kyoo, MIN B. I.(Pohang University of Science and Technology, Department of Physics.)

E [A9-co] Pioneer: DFT and beyond for accelerated materials design and discovery

2015년 4월 22일 수요일 15:00 – 16:45

장소: 201호

좌장: 이 인 호 KRISS

A9.05 [15:00-15:30]

Development and Applications of a Conformational Space Annealing Scheme in the Inverse Design of Functional Materials / CHANG Kee Joo, OH Young Jun, KIM Sunghyun, LEE In-Ho¹(Korea Advanced Institute of Science and Technology, ¹Korea Research Institute of Standards and Science.)

A9.06 [15:30-16:00]

Protein Structure Modeling/Determination by Global Optimization using Ambiguous NOE restraints / LEE Jooyoung(Korea Institute for Advanced Study, School of Computational Sciences.)

A9.07 [16:00-16:30]

Property Database and High-throughput Screening of Functional Materials / YIM Kanghoon, LEE Joohee, LEE Kyuhyun, YOUN Yong, HAN Seungwu(Department of Materials Science and Engineering, Seoul National University.)

A9.08 [16:30-16:45]

Selective Orbital Coupling Causes the Direct-to-Indirect Bandgap Transition in Hexagonal Layered Semiconductors / KANG Joongoo(Department of Emerging Materials Science, DGIST, Daegu 711-873, Korea.)

[A9-co] Tutorial: Collective phenomena and phase transitions in condensed matter systems

2015년 4월 22일 수요일 18:00 – 19:40

장소: 201호

좌장: 민 홍 기 서울대

A9.09 [18:00-19:40]

응집물질의 집단현상과 상전이 / YEO Joonhyun(건국대학교.)

[A10-st] Complex Systems I

2015년 4월 22일 수요일 13:00 - 14:45

장소: 202호

좌장: 고 광 일 고려대

A

A10.01 [13:00-13:15]

Complex Network Analysis of the Korean Urban Street Structure /

JUNG Woo-Sung, LEE Byoung-Hwa(POSTECH.)

A10.02 [13:15-13:30]

Canary in a coal mine -- Analysis of Systemic Risk / 오갑진(조선대학교, 경영학부.)

A10.03 [13:30-13:45]

Data Analysis and Modeling for Urban Morphology of Seoul /

GOH Segun, LEE Keumsook¹, CHOI MooYoung, KIM Kyung-min²(Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University. ¹Department of Geography, Sungshin Women's University. ²Graduate School of Environmental Studies, Seoul National University.)

A10.04 [13:45-14:00]

Understanding Financial Market States Using Artificial Double

Auction Market / 임규빈, 오갑진¹, 김승환(Department of physics, POSTECH. ¹Division of business administration, Chosun University.)

A10.05* [14:00-14:15]

Quantitative analysis of intellectual interchanges in the history of massive online open-editing encyclopedia, Wikipedia / 윤진

혁, 이상훈¹, 정하웅(KAIST, Department of Physics. ¹성균관대학교, Department of Energy Science.)

A10.06* [14:15-14:30]

Application of the Gravity and Radiation Models on the Korean

Urban Bus Network / JUNG Woo-Sung, HONG Inho(Department of Physics, POSTECH.)

A10.07* [14:30-14:45]

Structural Constraint of Random Bipartite Graphs / 김영호, 백용주¹,

정하웅(한국과학기술원, 물리학과. ¹Department of Physics, Technion, Israel.)

[A10-st] Phase Transitions and Critical Phenomena

2015년 4월 22일 수요일 15:00 – 16:30

장소: 202호

좌장: 하 미 순 조선대

A10.08* [15:00-15:15]

Phase Diagram and Universal Scaling of Generalized Epidemic Process on Modular Networks / CHUNG Kihong, BAEK Yongjoo¹, HA Meesoon², JEONG Hawoong³(Department of Physics, KAIST, Korea. ¹Department of Physics, Technion, Israel. ²Department of Physics Education, Chosun University, Korea. ³Department of Physics, KAIST, and APCTP, Pohang, Gyeongbuk 790-784, Korea.)

A10.09* [15:15-15:30]

Is Columnar Defect always relevant to 1D KPZ Growing Interfaces? / SOH Hyungjoon, BAEK Yongjoo¹, HA Meesoon², JEONG Hawoong(Department of Physics, KAIST, Korea. ¹Department of Physics, Technion, Israel. ²Department of Physics Education, Chosun University, Korea.)

A10.10 [15:30-15:45]

Non-Self-Averaging and Ultra-slow Convergence in Gelation / CHO young sul, MAZZA Marco G.¹, KAHNG Byungnam, NAGLER Jan²(Seoul National University. ¹Max Planck Institute for Dynamics and Self-Organization. ²ETH Zurich.)

A10.11 [15:45-16:00]

Phase Transition of Kuramoto Oscillators with Generalized Unimodal Natural Frequencies / CHOI Chulho, PARK Hyunggyu(Korea Institute for Advanced Study.)

A10.12 [16:00-16:15]

Wang-Landau approach to the tricritical behavior of the two-dimensional Blume-Capel model / KIM Dong-Hee, JEONG Joohyeok, LEE Juhee, KWAK Wooseop¹(GIST, Department of Physics and Photon Science. ¹Chosun University, Department of Physics.)

A10.13[16:15-16:30]

Criticality in hybrid percolation transitions on interdependent networks / LEE Deokjae, SANGMIN Hwang, KAHNG Byungnam(Seoul National University.)

통계물리학과 총회

2015년 4월 22일 수요일 16:30 – 16:55

장소: 202호

E [A11-at] Pioneer: Quantum control for emerging quantum technologies

2015년 4월 22일 수요일 13:00 – 14:45

장소: 204호

좌장: 신 석 민 서울대

A11.01 [13:00-13:35]

Theoretical and Experimental Aspects of Controlled Quantum Dynamics / RABITZ Herschel(Princeton University, Dep. Chemistry.)

A11.02 [13:35-14:10]

Pulse-shaping methods for ultrafast laser interaction with atoms / AHN Jaewook(KAIST, Department of Physics.)

A11.03 [14:10-14:45]

Quantum Control via Geometrical Optimization / SOLA Ignacio, CHANG Bo Young¹, SHIN Seokmin¹(Universidad Complutense de Madrid, Dep. Quimica Fisica. ¹Seoul National University, Department of Chemistry.)

E [A11-at] Pioneer: Quantum control for emerging quantum technologies

2015년 4월 22일 수요일 15:00 – 16:45

장소: 204호

좌장: SOLA Ignacio UCM

A11.04 [15:00-15:35]

Quantum coherent control for ultralong quantum memories: Toward quantum repeaters / HAM Byoung Seung(GIST (광주과학기술원).)

A11.05 [15:35-16:10]

Non-Abelian holonomic quantum control of a single qubit / MALINOVSKY Vladimir S.(US Army Research Laboratory, Adelphi, MD 20783.)

A11.06 [16:10-16:45]

Good Vibrations: Building Quantum Technologies in Ultrafast Systems / SUSSMAN Benjamin J.(National Research Council Canada and University of Ottawa, Dep. Physics.)

[A12-te] Physics Education Research

2015년 4월 22일 수요일 13:00 - 14:30

장소: 205호

좌장: 박 종 원 전남대

A12.01 [13:00-13:15]

탐구의 맥락이 담긴 물리학 내용지식의 교수학습을 위하여: 역학의 사례를 중심으로 / 정용욱(서울대학교, 물리교육과.)

A12.02 [13:15-13:30]

문헌 연구를 중심으로 한 과학에서의 미적 가치에 대한 탐색: 과학은 아름다운가? / 조한국(단국대학교 교양기초교육원.)

A12.03 [13:30-13:45]

기술민주화적 관점에서 접근한 물리 교육: 무한상상실 / 최현숙(국립중앙과학관 교육문화과.)

A12.04 [13:45-14:00]

초등학교 과학 교과서에 사용된 과학용어와 일반용어 분석 / 박상우, 신정윤¹, 현동걸²(청주교육대학교, ¹대전 두리초등학교, ²제주대학교.)

A12.05 [14:00-14:15]

교육용 과학용어에 대한 '포털 사전', '표준국어대사전', '과학교과서' 설명의 비교 분석 / 윤은정, 박윤배(경북대학교.)

A12.06 [14:15-14:30]

중학생과 과학교사의 색 인식에 대한 개념세계 및 모형구성 / 이동욱, 유준희(서울대학교, 물리교육과.)

[A12-te] Secondary Physics Teaching

2015년 4월 22일 수요일 15:00 - 16:30

장소: 205호

좌장: 박 상 우 청주교대

A12.08 [15:00-15:15]

Symmetry of the Thin-Lens Equation and Its Applications to the Focal-Length Measurement / HONG Seok-In(Department of Science Education, Gyeongin National University of Education.)

A12.09* [15:15-15:30]

과학영재들의 역학 기초개념 이해에 관한 정량적 분석 / 이인숙(KAIST 부설 한국과학영재학교 물리지구과학부.)

A12.10 [15:30-15:45]

국제과학올림피아드 대표 중학생의 물리 영역 답안 분석 **Analysis of Korean Delegates' Answer Sheets in Physics Field for**

A12.11 [15:45-16:00]

중등학생을 위한 현대물리 지도 고찰 / 박종원(전남대학교 사범대학 물리교육과.)

A12.12 [16:00-16:15]

수학과 과학을 통합 지도한 '물체의 속력' 수업에서 학생의 학습과정 분석 / 정하나, 전영석(서울교육대학교.)

A12.13* [16:15-16:30]

Development of SIP(ScienArt for Integrated Problem) based on Rockets of NASA / LEE Sua(Kyungpook National University, department of physics education.)

[A13-p] 기초플라즈마 현상, 플라즈마 장치, 공정 및 응용

2015년 4월 22일 수요일 13:00 - 14:45

장소: 206호

좌장: 김 계 령 원자력연

A13.01 [13:00-13:15]

Light Matter of Sunplasma / 김병한(세종대학교 전자공학과.)

A13.02* [13:15-13:30]

Mode conversion of magnetohydrodynamic waves in stratified inhomogeneous plasmas with shear flows / 김슬옹, 김기홍(아주대학교 에너지시스템학과.)

A13.03* [13:30-13:45]

이온 체류 불안정성을 가지는 홀 추력기 플라즈마에서의 비선형 이온 가속 / 임유봉, 김호락, 박재선, 선종호¹, 최원호(한국과학기술원, 물리학과, ¹경희대학교, 우주과학과.)

A13.04 [13:45-14:00]

Canonical helicity in magnetized plasmas with strong flow / 윤건수(포항공과대학교, 물리학과.)

A13.05 [14:00-14:15]

Sterilization of Rice Seeds by Ozone with Ultrasonic wave and Plasma Generated by Arc Discharge / KANG Min Ho, PENGKIT Anchalee¹, CHOI Ki Hong, JEON Sung Sil, CHOI Hyo Won², SHIN Dong Bum³, CHOI Eun Ha, UHM Han Sup, PARK Gyungsoon(Kwangwoon University, Department of Electrical and Biological Physics. ¹Kwangwoon University, Plasma Bioscience Research Center. ²National Academy of Agricultural Science, Department of Crop Life Safety. ³National Institute of Crop Science, Department

of Crop Environment.)

A13,06 [14:15-14:30]

The inspection of the negative ion from the target in magnetron sputtering with 2D particle-in-cell simulation / 허민영, 이해준(부산대학교 전자전기컴퓨터공학부, '부산대학교 전기공학부.)

A13,07* [14:30-14:45]

Analysis for the Effects of Various Plasma Sources on Plant Development / CHOI KiHong, JI SangHye, PENGKIT Anchalee, KANG MinHo, LEE SangHak, HONG YoungJune, UHM HanSup, CHOI EunHa, PARK Gyungsoon(광운대학교 플라즈마바이오효과학연구센터.)

E [A13-pa] Pioneer: Axion & Proton EDM I

2015년 4월 22일 수요일 15:00 – 16:45

장소: 206호

좌장: 정우현 IBS

A13,08 [15:00-15:26]

Feasibility of maintaining in-plane polarization for a storage ring EDM search / STEPHENSON Edward(Indiana University.)

A13,09 [15:26-15:52]

GEM-based polarimeter development for storage ring proton EDM experiment / PARK Seongtae(Center for Axion and Precision Physics, IBS.)

A13,10 [15:52-16:18]

Proton EDM Experiment and Magnetic Field Shielding in an All-Electric Storage Ring / HACIOMEROGLU Selcuk(Center for Axion and Precision Physics, IBS.)

A13,11 [16:18-16:44]

Resonantly Detecting Axion-Mediated Forces with Nuclear Magnetic Resonance / GERACI Andrew(University of Nevada.)

[A14-pa] Focus: Geometrical Quantum Fields

2015년 4월 22일 수요일 11:00 - 12:30

장소: 209호

좌장: 김 낙 우 경희대

A14.01 [11:00-11:30]**Scattering Amplitudes without Feynman Diagrams** / LEE Sangmin(서울대학교 자유전공학부/물리천문학부.)**A14.02** [11:30-12:00]**Seiberg-Witten curve, (p,q) web diagram, and toric-like geometry** / KIM Sung-Soo(KIAS.)**A14.03** [12:00-12:30]**3d superconformal field theories from 3-manifolds** / 강동민, 이상민, 김낙우²(IPMU. ¹서울대학교, ²경희대학교.)**[A14-pa] Focus / String & Field Theory I**

2015년 4월 22일 수요일 13:30 - 15:15

장소: 209호

좌장: 이 상 민 서울대

A14.04 [13:30-13:43]**Stochastic quantization of conformally coupled scalar in AdS** / 오재혁, JATKAR Dileep¹(한양대학교, 물리학과. ¹Harish Chandra Research Institute, Physics department.)**A14.05** [13:43-13:56]**Magnetic Properties Of Superconductor Phase Diagram: Holographic Approach** / 김경규, 김근영, 서윤석¹, 신상진¹(GIST. ¹한양대.)**A14.06** [13:56-14:09]**On the Holographic Magnetism** / 신상진, 김근영¹, 김경규¹, 서윤석(한양대학교 물리학과. ¹광주과학기술원 물리학과.)**A14.07** [14:09-14:22]**Holographic Entanglement Entropy of the N=6 Massive Chern-Simons Theory** / 김찬주, 김경규¹, 권오갑²(이화여자대학교 물리학과. ¹광주과학기술원. ²경북대학교 고에너지물리연구소.)**A14.08** [14:22-14:35]**Holographic Mesons in a Dense Medium** / NAM Siyoung, LEE Bum-Hoon¹, PARK Chanyong²(Sogang U. ¹CQeST, Seoul & Sogang U. ²CQeST, Seoul.)

A14,09 [14:35-14:48]

Effect of the Magnetic Field on the Dynamical Gap from Holography / SEO Yunseok, SIN Sang-Jin(Hanyang Univeristy.)

A14,10 [14:48-15:01]

Time-dependent solutions in dynamical AdS background / 김낙우(경희대학교 물리학과.)

A14,11 [15:01-15:14]

Holographic conserved charges for rotating black holes / HYUN Seungjoon, JEONG Jaehoon¹, YI Sang-Heon, PARK Sang-A(Yonsei University, Department of Physcis. ¹Aristotle University of Thessaloniki, Institute of Theoretical Physics.)

[A14+pa] String & Field Theory II

2015년 4월 22일 수요일 15:30 - 17:30

장소: 209호

좌장: 신 상 진 한양대

A14,12 [15:30-15:43]

Supersymmetric AdS6 solutions of type IIB supergravity / 서민우, 김효중¹, 김낙우¹(서강대학교, ¹경희대학교.)

A14,13 [15:43-15:56]

Representation of Poincare group and Derivation of Dirac equation / 최태승, 조삼영¹(서울여자대학교, ¹충청대학교.)

A14,14 [15:56-16:09]

Supergravity in Twelve-dimension / 최강신(이화여자대학교.)

A14,15 [16:09-16:22]

AdS6 Solution of IIB Supergravity Revisited / 김효중, 김낙우, 서민우¹(경희대학교, ¹서강대학교.)

A14,16 [16:22-16:35]

Little strings and T-duality / 김석, 김정민, 이기명¹(서울대학교, 물리천문학부, ¹고등과학원, 물리학부.)

A14,17 [16:35-16:48]

Counting the States of E-strings / KIM Seok, KIM Joonho, LEE Kimyeong¹, PARK Jaemo², VAFA Cumrun³(Seoul National University, ¹Korea Institute for Advanced Study, ²Postech, ³Harvard University.)

A14.18 [16:48-17:01]

Wess-Zumino-type Coupling in ABJM Theory with Abelian Gauge Invariance / JANG Dongmin, KIM Yoonbai, KWON O-Kab¹, TOLLA D. D.²(Sungkyunkwan University, Department of Physics. ¹Kyungpook National University, Department of Physics. ²Sungkyunkwan University, University College.)

A14.19 [17:01-17:14]

Thermodynamic phase transition based on the nonsingular temperature / EUNE Myungseok, GIM Yongwan¹, KIM Wontae¹(Sangmyung University, Department of Computer System Engineering. ¹Sogang University, Department of Physics.)

A14.20 [17:14-17:27]

Primordial Black Holes in the Higgs Inflation / HYUN Young-Hwan, KIM Jinsu, KIM Yoonbai, PARK Seong Chan(Sungkyunkwan University.)

SESSION B

2015년 4월 23일(목) 오전

[B1-nu] Heavy Ion Accelerator

2015년 4월 23일 목요일 09:00 – 10:40

장소: 101호

좌장: 채 경 욱 성균관대

B1.01(초) [09:00-09:20]

RAON ECR ion source of the RISP / HONG In Seok(IBS,RISP.)

B1.02(초) [09:20-09:40]

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

B1.03(초) [09:40-10:00]

**Comparison of superconducting linac options / JEON Dong-O
(Institute for Basic Science.)**

B1.04(초) [10:00-10:20]

**In-flight Fragment Separator Facility Design for the RISP / 김중원(기
초과학연구원, 중이온가속기 사업단.)**

B1.05(초) [10:20-10:40]

**Ion Beam Commisioning Plan of Heavy Ion Accelerator at KBSI
/ WON Mi-SooK, LEE Byoung Seob, CHOI Seyong, OK Jung-Woo, PARK Jin
Yong, KIM Seong Jun, BHANG Jungbae, HONG Jonggi, SHIN Chang Seouk,
YOON Jang-Hee, KIM Hyeun Gyu(Korea Basic Science Institute.)**

[B1-nu] Double-beta Decay

2015년 4월 23일 목요일 11:00 – 12:45

장소: 101호

좌장: 한 인 식 이화여대

B1.06(초) [11:00-11:20]

**Recent Progress of Theoretical Approach in Double Beta Decay /
천명기, 하은재(송실대학교.)**

B1.07(초) [11:20-11:40]

**Overview of neutrinoless double-beta decay experiments / KIM H. J.
(Kyungpook National University, Department of Physcis.)**

B1.08(초) [11:40-12:00]

Overview of the AMoRE project / KIM Yong-Hamb(기초과학연구원, 지하실험연구단.)

B1.09* [12:00-12:15]

Low temperature CaMoO_4 detectors for AMoRE / 김건보(기초과학연구원 지하실험연구단, 서울대학교.)

B1.10 [12:15-12:30]

Background Studies for the AMoRE-10 Neutrinoless Double-beta decay experiment / YOON Young Soo, (on the behalf of the AMoRE collaboration)(기초과학연구원, 지하실험연구단.)

B1.11 [12:30-12:45]

Preparation and Status of AMoRE-pilot Experiment / 강찬석(기초과학연구원, 지하실험연구단.)

[B2-nu] Nuclear Physics I

2015년 4월 23일 목요일 09:00 - 10:45

장소: 102호

좌장: 문 준 영 IBS

B2.01* [09:00-09:15]

Performance Evaluation of GET Electronics for $S\pi\text{RIT-TPC}$ at HIMAC / JHANG Genie, ISOBE Tadaaki¹, NISHIMURA-KURATA Mizuki¹, TSANG Betty², HONG Byungsik(Korea University. ¹Riken Nishina Center. ²National Synchrotron Cyclotron Laboratory, MSU.)

B2.02* [09:15-09:30]

Measurement of Lambda Production from $K\Lambda + \text{Al}$ Interaction at J-PARC / 김준이, 이종원, 안정근, 김은주¹, 우종관², 임계엽³(고려대학교, 물리학과. ¹전북대학교, 물리교육학과. ²제주대학교, 물리학과. ³KEK.)

B2.03 [09:30-09:45]

Hyperon Semileptonic decay constants and Decay widths of the baryon decuplet with $SU(3)$ flavor symmetry breaking / 양길석, 김현철(숭실대학교, 물리학과. ¹인하대학교, 물리학과.)

B2.04* [09:45-10:00]

Analysis of the $^{24}\text{Mg}(p,d)^{23}\text{Mg}$ data for the astrophysically-important $^{22}\text{Na}(p,\gamma)^{23}\text{Mg}$ reaction rate / KWAG M. S., CHAE K. Y., AHN S.¹, BARDAYAN D. W.², CHA S. M., CHIPPS K. A.³, CIZEWSKI J. A.⁴, HOWARD M. E.⁴, KIM A., KOZUB R. L.⁵, LEE E. J., MANNING B.⁴, MATOS M.⁶, O'MALLEY P. D.⁴, PAIN S. D.⁷, PETERS W. A.⁸, PITTMAN S. T.⁷, RATKIEWICZ A.⁴, SMITH M. S.⁷, STRAUSS S.⁴(Sungkyunkwan University. ¹University of Tennessee. ²Notre Dame University. ³Colorado School of Mines. ⁴Rutgers University. ⁵Tennessee

Technological University. ⁶Louisiana State University. ⁷Oak Ridge National Laboratory. ⁸Oak Ridge Associated Universities.)

B2,05 [10:00-10:15]

Effects of the Sterile Neutrino and Extra Dimension in Big Bang Nucleosynthesis / 장덕재, 천명기, KUSAKABE Motohiko¹(숭실대학교, 물리학과. ¹한국항공대학교, 교양학과.)

B2,06 [10:15-10:30]

Quasi-mono energy neutron source with ⁹Be(p,xn) reaction for activation experiments at 25~45 MeV / ZAMAN Muhammad, KIM Kwangsoo, NAIK Haladhara¹, SHAHID Muhammad², HIEN Nguyen Thi², KIM Guinyun²(Department of Physics, Kyungpook National University. ¹Radiochemistry Division, Bhabha Atomic Research Centre. ²Department of Physics, Kyungpook National University.)

B2,07 [10:30-10:45]

Multilayer PPIC detector for Dose-Verification in Particle Therapy / 이경세, 박성근, 홍병식, 안성환¹, 김진성¹, 정광주¹, 조성구¹, 한영이¹(고려대학교 물리학과. ¹삼성병원 방사선종양학과.)

[B2-nu] Nuclear Physics II

2015년 4월 23일 목요일 11:00 – 12:30

장소: 102호

좌장: 김 영 만 IBS

B2,08* [11:00-11:15]

상대론적 고 에너지 중이온 충돌에서 제트입자와 관련된 제동복사 / 박가영, 윤진희(인하대학교, 물리학과.)

B2,09 [11:15-11:30]

Development of a QMD-type model code for heavy-ion collisions at low and intermediate energies / KIM Kyungil, KIM Youngman, LEE Kang Seog¹(RISP/IBS. ¹Chonnam National University.)

B2,10 [11:30-11:45]

Neutrino (Antineutrino) scattering on the nucleon with strangeness form factors in the context of the recent MiniBooNE and NOMAD experiments / 양길석, 천명기(숭실대학교, 물리학과.)

B2,11 [11:45-12:00]

Optical model analysis of ¹⁶O elastic scattering in low energy region. / CHOI Ki-Seok, CHEOUN Myung-Ki, SO W. Y.¹, KIM K. S.²(Department of physics, Soongsil University. ¹Department of radiological science, Kangwon National University. ²Korea Aerospace University.)

B2.12 [12:00-12:15]

**Coexistence phase of hadrons and quarks in a neutron star / 미야
쯔쯔요시, 천명기(숭실대학교, 물리학과.)**

B2.13 [12:15-12:30]

**Investigation of Proton Induced Reactions on ^{nat}Nb upto
42.5 MeV and Measurement of Excitation Functions / SHAHID
Muhammad, KIM Kwangsoo, ZAMAN Muhammad, KIM Guinyun(Department
of Physics, Kyungpook National University.)**

E [B3-se] Pioneer: 한-일 공동 심포지엄, Ultrafast Nanophotonics

2015년 4월 23일 목요일 09:00 – 10:20

장소: 103호

좌장: 김 용 민 단국대

[09:00-09:20] Opening Ceremony

B3.01 [09:20-09:50]

**Time-Resolved Optical Spectroscopy of Semiconductor Materials
and Devices: Nanocrystals, Nanotubes, and Perovskites /
KANEMITSU Yoshihiko(Institute for Chemical Research, Kyoto University/JST,
CREST.)**

B3.02 [09:50-10:20]

**Quantum Photonics Based on Nitride Semiconductor Nanostructures
/ CHO Yong-Hoon(Department of Physics and KI for the NanoCentury, KAIST,
Daejeon, Republic of Korea.)**

E [B3-se] Pioneer: 한-일 공동 심포지엄, Ultrafast Nanophotonics

2015년 4월 23일 목요일 10:35 – 12:20

장소: 103호

좌장: Y. Kanemitsu Kyoto U

B3.03 [10:35-11:05]

**Broadband Single-Shot Spectroscopy Applicable to Photoinduced
Nonlinear Dynamics / TAKEDA Jun, MINAMI Y., KATAYAMA I.(Dept. of
Physics, Yokohama National University, Yokohama 240-8501, Japan.)**

B3.04 [11:05-11:35]

**Time-Delay in Photoemission Depending on Extendedness of
Many-Electron Screening of Photohole / LEE JAEDONG(Department of
Emerging Materials Science, DGIST.)**

B3.05 [11:35-12:05]

**Dielectric Constant Engineering of Single-Walled Carbon
Nanotube Films for Metamaterials and Plasmonic Devices /**

PARK Doo Jae, HONG Jung Taek¹, AHN Yeong Hwan¹, PARK Ji-Yong¹, LEE Soonil¹(Hallym University. ¹Ajou University.)

[12:05-12:20] **Photo Time**

E [B4-ap] Pioneer: Korea-Japan Joint Symposium of Leading Scientists on Organic Electronics

2015년 4월 23일 목요일 09:00 – 11:00

장소: 104호

좌장: 이 태 우 포항공대

B4,01(초) [09:00-09:35]

Relaxed Anion-State in OLED Films Studied by High Sensitivity Photoemission: Surface Polarization and Exo-electron in Organic Films / ISHII Hisao, KINJO Hiroumi¹, YAMAJAK¹ Junki¹, NOGUCHI Yutaka², NAKAYAMA Yasuo¹(Graduate School of Advanced Integration Science/Center for Frontier Science, Chiba University, Japan. ¹Graduate School of Advanced Integration Science, Chiba University. ²School of Science and Technology, Meiji University, Kawasaki 214-8571, Japan.)

B4,02(초) [09:35-10:00]

DNA base guanine small molecules towards organic CMOS inverter and nonvolatile 2D memory FET applications / IM Seongil, LEE Jun Young(Physics, Yonsei University.)

B4,03(초) [10:00-10:35]

Carrier Transport Mechanism in Anisotropic Organic Semiconductor Films Studied by the TRM-SHG Imaging / MANAKA Takaaki, IWAMOTO Mitsumasa(Department of Physical Electronics, Tokyo Institute of Technology, Japan.)

B4,04(초) [10:35-11:00]

Charge Separation at Organic-inorganic Interface / KIM Jeong Won(Korea Research Institute of Standards and Science.)

E [B4-ap] Pioneer: Korea-Japan Joint Symposium of Leading Scientists on Organic Electronics

2015년 4월 23일 목요일 11:10 – 12:30

장소: 104호

좌장: 임 은 주 단국대

B4,05(초) [11:10-11:35]

Organic-based Resistive Nonvolatile Memory Devices / LEE Takhee (Seoul National University.)

B4.06(초) [11:35-12:05]

Low energy inverse photoemission spectroscopy: A new tool to examine the unoccupied states of organic semiconductors / YOSHIDA Hiroyuki(Institute for Chemical Research, Kyoto University, Japan.)

B4.07(초) [12:05-12:30]

Al induced interfacial states and their role in electron transport: studies on Al/Bathocuproine (BCP) interface / 이연진, 이제현, 이연주, 김혜인, 신동근, 박수형, 정광호, 이현복(연세대학교 물리학과, 강원대학교 물리학과.)

[B5-ap] Focus: Biophysics and Medical Physics

2015년 4월 23일 목요일 09:00 - 10:45

장소: 105호

좌장: 최 은 하 광운대

B5.01 [09:00-09:20]

Single Molecule Force Spectroscopy (SMFS) by Atomic Force Microscopy / JUNG Yu Jin(한국화학연구원 나노바이오융합연구단.)

B5.02 [09:20-09:40]

H₂/He 플라즈마 표면처리에 의해 패턴화된 hexamethyldisiloxane박막에서의 Bovine Aortic Endothelial Cells (BAECs)의동향 / 정동근, 권성률, 박지수, 자진섭, 김영미, 이혜림¹, 박현웅¹(성균관대학교 물리학과, ¹단국대학교 생명공학과.)

B5.03 [09:40-10:00]

Soft matter physics helps biophysics and medical physics / WEON Byung Mook, KANG Tae-Hong¹, LEEM Sun-Hee¹(Sungkyunkwan University, School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT). ¹Dong-A University, Department of Biological Science.)

B5.04 [10:00-10:15]

Visualization of the Interaction of Radicals with Cellular Membrane / 백구연, 박진경, 기세훈, 성창승, 이채복, 엄환섭, 최은하(광운대학교 전자바이오물리학과.)

B5.05 [10:15-10:30]

Three Types of Oscillations in the Human Glucose Regulation System /KANG Hyuk, HAN Kyungreem, GOH Segun, CHOI MooYoung (Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University.)

B5.06 [10:30-10:45]

Terahertz wave irradiation contributes to proliferation of hair

follicle stem cells / YOO Jung Sun, YOON Juhwan¹, HAN Seong-Tae²(Smart Humanity Convergence Center, Department of Transdisciplinary Studies, Graduate School of Convergence Science and Technology, Seoul National University, Advanced Institutes of Convergence Technology. ¹Department of Nuclear Medicine, Seoul National University Bundang Hospital, Seoul National University College of Medicine. ²Korea Electrotechnology Research Institute, Energy and Power Conversion Engineering Program, University of Science and Technology (UST).)

[B5-ap] Focus: Biophysics and Medical Physics

2015년 4월 23일 목요일 11:10 – 12:55

장소: 105호

좌장: 정 동 근 성균관대

B5.07(초) [11:10-11:35]

Monitoring of Single Live Cell using AFM and SICM / 조상준, 최명훈¹, 정구은¹(차세대융합기술원. ¹(주)파크시스템스.)

B5.08(초) [11:35-12:00]

Towards Plasmonic NanoBubble Platform for Bio-sensor and Biomedical Application / 최성수, 박명진, 한철희, 오세중, 김연욱, 김용상¹, 박남규²(SunMoon University, Research Center for Nano-Bio Science. ¹Sungkyunkwan University, School of Electrical and Electronic Engineering. ²Seoul National University, School of Electrical and Electronic Engineering.)

B5.09 [12:00-12:15]

Identification of PIP₂-Mediated Neuronal Exocytosis: Molecular Modeling and Simulations / HAN Kyungreem, CHOI MooYoung (Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University.)

B5.10(초) [12:15-12:35]

바이오 물질의 역학적 특성과 응용 / 김경숙(경희대학교.)

B5.11(초) [12:35-12:55]

전자현미경기술의 최근 동향 / 이충희(한국과학기술정보연구원 ReSEAT 프로그램.)

[B6-co] Surface/Interface/Nano-material II

2015년 4월 23일 목요일 09:00 – 10:45

장소: 106호

좌장: 김 태 환 포항공대

B6.01 [09:00-09:15]

Indium Double-Layer model for the Hexagonal In/Si(111)-(√7x√3) Surface / PARK Jae Whan, KANG Myung Ho(포스텍 물리학과.)

B6.02 [09:15-09:30]

Roles of Hydrogen in Structural Stability of TiZrNi Quasicrystals

/ KIM Jaeyong, LEE Sang-hwa Lee, YI Whikun¹, ITO Eisuke²(Department of Physics, Hanyang University. ¹Department of Chemistry, Hanyang University. ²Flucto-order functions Asian collaboration team, RIKEN, 3-7-5, Tokyo, Japan.)

B6.03 [09:30-09:45]

Nucleation and Growth of Primary Nanostructures in SrTiO₃ Homoepitaxy

/ CHANG Young Jun, PHARK Soo-hyon¹(Department of Physics, University of Seoul. ¹Center for Correlated Electron Systems, Institute for Basic Science, Seoul National University.)

B6.04 [09:45-10:00]

Topological Character and Chiral solitons in a One Dimensional Topological Material

/ 천상모¹, 김태환, 이성훈¹, 염한웅(CALDES, Institute for Basic Science and POSTECH. ¹CALDES, Institute for Basic Science.)

B6.05 [10:00-10:15]

Direct Access to Growth Dynamics of Perovskite Oxides by Scanning Tunneling Microscopy

/ PHARK Soo-hyon, CHANG Young Jun¹(Center for Correlated Electron Systems, Institute for Basic Science, Seoul National University. ¹Department of Physics, University of Seoul.)

B6.06 [10:15-10:30]

First-principles study of metal adatom adsorption on black phosphorene

/ TAO Hu, HONG Jisang(Department of Physics, Pukyong National University.)

B6.07 [10:30-10:45]

Nanoscale characterization of triboelectric effect on PDMS: Effect of UV-treatment

/ JONG HUN Kim, B.K Yoon¹, JONG HOON Jung¹, JEONG YOUNG Park²(Center for Nanomaterials and Chemical Reactions; Institute for Basic Science (IBS), Graduate School of EEWS, Korea Advanced Institute of Science and Technology (KAIST). ¹Department of Physics, Inha University. ²IBS ; KAIST)

[B6-co] Focus: Surface/Interface of graphene and topological insulators II

2015년 4월 23일 목요일 11:00 - 12:45

장소: 106호

좌장: 장영준 서울시립대

B6.08 [11:00-11:30]

위상부도체 표면의 전하수송특성 / 김도현(연세대학교 신소재공학부.)

B6.09 [11:30-12:00]

Designed Three-Dimensional Single-Crystal Carbon Architecture /

AHN Joung Real(Department of Physics, Sungkyunkwan University.)

B6.10* [12:00-12:15]

Friction Properties of Water-Intercalated Graphene on Hydrophilic Substrates / 이현수, 고재현¹, 최진식², 황진희, 김용현¹, SALMERON Miquel³, 박정영(IBM, Center for Nanomaterials and Chemical Reactions & KAIST, Graduate School of EEWS. ¹KAIST, Graduate School of Nanoscience and Technology. ²한국전자통신연구원. ³University of California at Berkeley, Materials Science and Engineering Department.)

B6.11* [12:15-12:30]

Evolution of Internal Strain and Band Gap in Topological Insulator Bi₂Se₃ Thin Film / TAE-HYEON Kim, KWANGSIK Jeong, BYUNG CHEOL Park, HYEJIN Choi, SANG HAN Park, KWANG-HO Jeong, JAE HOON Kim, MANN-HO Cho(Institute of Physics and Applied Physics, Yonsei University.)

B6.12* [12:30-12:45]

Electron band structure of graphene studied using circularly polarized light / 황준규, 조승혜, 황휘현(부산대학교, 물리학과.)

[B7-co] Nano/mesoscopy I

2015년 4월 23일 목요일 09:00 - 10:45

장소: 107호

좌장: 배명호 KRISS

B7.01 [09:00-09:13]

Ionic Gating for Metals / CHAE Dong-Hun, JOO Sungjung, RAMANCHANDRAN Pradheesh, CHONG Yunuk, CHOI Jiman¹, KIM Hyungsang¹, IM Hyunsik¹(한국표준과학연구원. ¹동국대학교, 물리학과.)

B7.02 [09:13-09:26]

Robust excitonic insulating phase in atomically-thin Ta₂NiSe₅ nanosheets / KIM So Young, KIM Youngwook, EOM Man Jin, KANG Chang-Jong, LEE Min Kyung¹, PARK Chibeom¹, CHOI H.C.¹, MIN B.I., KIM Jun Sung(POSTECH, Department of Physics. ¹POSTECH, Department of Chemistry.)

B7.03 [09:26-09:39]

Shiba States and Zero-Bias Anomalies in the Hybrid Normal-Superconductor Anderson Model / ZITKO Rok, LIM Jong Soo¹, LOPEZ Rosa², AGUADO Ramon³(Jozef Stefan Institute. ¹Korea Institute for Advanced Study. ²IFISC (UIB-CSIC). ³ICMM-CSIC.)

B7.04 [09:39-09:52]

Mechanical detection of Ferromagnetic resonance / CHO Sung Un, CHO Myung Rae, PARK Yun Daniel(Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea.)

B7.05 [09:52-10:05]

Quantum Electrodynamic Aharonov-Bohm Effect in a Charge Qubit Nonlocally Coupled to a Cavity / 김영완, 강기천(전남대 물리학과.)

B7.06* [10:05-10:18]

Mobility of Electrons on 3He-4He Mixture / CHOI H., IKEGAMI H.¹, SATO D.¹, KIM K., KONO K.¹(KAIST, Department of Physics. ¹Riken, Low Temperature Physics Laboratory.)

B7.07* [10:18-10:31]

나노역학적 단일서들의 느린통과역학 / 안강현, 유재연(충남대학교, 물리학과.)

B7.08 [10:31-10:45]

First-principles Calculations of the Phonon Transport in Carbon Atomic Chain Systems Based on Atomistic Green's Function Formalism / KIM Hu Sung, KIM Yong-hoon(Korea Advanced Institute of Science and Technology.)

[B7-co] Focus: Quantum Standards and Measurements

2015년 4월 23일 목요일 11:00 - 12:45

장소: 107호

좌장: 도 용 주 고려대

B7.09 [11:00-11:35]

차세대 전류 표준을 위한 KRISS 단전자 펌프 소자 개발 현황 / 김남, 안예환, 배명호, 홍창기, 서민기, 정윤철(한국표준과학연구원, ¹부산대학교, 물리학과.)

B7.10 [11:35-12:10]

초전도 마이크로링의 개별 자속양자 방출 정밀측정 / 최재혁, 최현화, 김윤원, 이순걸, 최만수²(한국표준과학연구원, 기반표준부, ¹고려대학교 디스플레이, 반도체물리학과, ²고려대학교, 물리학과.)

B7.11 [12:10-12:45]

와트저울과 킬로그램 재정의 / 이광철, 김동민, 우병철, 김진희(한국표준과학연구원.)

[B8-co] Pioneer: DFT and beyond for accelerated materials design and discovery

2015년 4월 23일 목요일 09:00 - 10:45

장소: 108호

좌장: 김 용 훈 KAIST

B8.01 [09:00-09:26]

Band Structure Engineering and Design of Graphene-like Materials: Innovations by Density Functional Theory

Computations / JINLAN Wang(Department of Physics, Southeast University, Nanjing 211189, China.)

B8,02 [09:26-09:52]

Multi-scale computational establishment of hybrid functional materials beyond conventional limit / HAN Byungchan(Department of Chemical & Biomolecular Engineering, Yonsei University, Seoul 120-749, Republic of Korea.)

B8,03 [09:52-10:18]

Virtual Fab for Design of Materials / LEE Kwang-Ryeol(Korea Institute of Science and Technology.)

B8,04 [10:18-10:44]

Real-time Propagation Of Time-dependent Density-functional Theory Plus U For Non-adiabatic Electron Transitions In Electron-atom Coupled Motions / 신동빈, 박노정(Department of Physics, UNIST.)

[B8-co] Focus: Defects in Semiconductors

2015년 4월 23일 목요일 11:00 – 12:45

장소: 108호

좌장: 정 석 민 전북대

B8,05 [11:00-11:30]

Defects and impurities in wide-bandgap oxides / CHOI Minseok (Korea Institute of Materials Science, Changwon.)

B8,06 [11:30-12:00]

Electron-Induced Structural Instability in Amorphous InGaZnO₄ Semiconductors / 김용성, 남호현¹(한국표준과학연구원. ¹Center for Correlated Electron Systems, IBS.)

B8,07 [12:00-12:30]

Oxygen Vacancy in Semiconducting Oxides / SONG Hochul, KANG Youngho, YIM Kanghoon, HAN Seungwu(Department of Materials Science and Engineering, Seoul National University, Seoul 143-747, Korea.)

B8,08 [12:30-12:45]

Electronic and structural properties of CdS/ZnS core/shell nanowires: A first principles study / KIM Yong-Hoon, KIM HYO SEOK, KIM HU SUNG, HAN SEUL KIM(KAIST, Graduate School of EEWs.)

E [B9-co] Pioneer: Quantum criticality and Emergent phenomena

2015년 4월 23일 목요일 09:00 – 10:30

장소: 201호

좌장: 김 기 석 포항공대

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B9.01 [09:00-09:45]

Low Energy Field Theories for Non-Fermi Liquids / SUNG-SIK Lee
(McMaster University, Department of Physics & Astronomy.)

B9.02 [09:45-10:30]

Bad Metal Behavior and Mott Quantum Criticality / DOBROSALJEVIC Vladimir
(Florida State University, Department of Physics and National High Magnetic Field Laboratory.)

E [B9-co] Pioneer: Quantum criticality and Emergent phenomena

2015년 4월 23일 목요일 11:00 – 12:45

장소: 201호

좌장: 전 건 상 이화여대

B9.03 [11:00-11:35]

Superconductivity and Tunable AFM QCPs in the Heavy Fermion Compound CeRhIn₅ / SEO S, PARK e, KIM J. N.¹, SHIM J.-H.¹, BAUER ED², RONNING F², THOMPSON JD², PARK Tuson
(Sungkyunkwan University. ¹Pohang Science and Technology. ²Los Alamos National Laboratory.)

B9.04 [11:35-12:10]

Unconventional quantum criticality in valence fluctuating YbAlB₄ / MATSUMOTO Y., TOMITA T., KUGA K., O'FARRELL E.C.T., SHIMURA Y., NAKATSUJI S.
(Institute for Solid State Physics, University of Tokyo.)

B9.05 [12:10-12:45]

Doping in semiconductors and phase transition / IM Hyunsik
(Department of Physics and Semiconductor Science.)

[B10-st] Biophysics

2015년 4월 23일 목요일 09:00 - 10:45

장소: 202호

좌장: 정영균 KISTI

B10.01 [09:00-09:15]

Developing Integral Self-Consistent Mean Field Theory of Polymers / KIM Jaeup(Department of Physics, School of Natural Science, UNIST.)

B10.02 [09:15-09:30]

Tension-induced Binding of Semiflexible Biopolymers / BENETATOS Panayotis, VON DER HEYDT Alice¹, ZIPPELIUS Annette²(Kyungpook National University, Department of Physics. ¹University of Goettingen, Institute for Theoretical Physics, Germany. ²University of Goettingen, Institute for Theoretical Physics, and Max-Planck-Institute for Dynamics and Selforganization, Germany.)

B10.03 [09:30-09:45]

Ergodic Properties of Anomalous Diffusion in Fractal Geometries / JEON Jae-Hyung, MARDOUKHI Yousof¹(Korea Institute for Advanced Study. ¹Tampere University of Technology, Finland.)

B10.04 [09:45-10:00]

Prediction of Protein Rigid Domains and Hinge Residues based on Elastic Network Model and Graph Theory / 이주련(송실대학교 생명정보학과.)

B10.05 [10:00-10:15]

Unraveling the core genetic circuitry of plant circadian system through computational model / FOO Mathias, SOMERS David¹, KIM Pan-Jun(APCTP. ¹Ohio State University.)

B10.06 [10:15-10:30]

Fast Sparsely Synchronized Cortical Rhythms in A Scale-Free Neural Network / LIM Woochang, KIM Sang-Yoon¹(Daegu National University of Education, Department of Science Education. ¹Daegu National University of Education, Department of Science Education, Computational Neuroscience Lab.)

B10.07* [10:30-10:45]

인공 유모세포를 통한 유모세포에 청각 변환 능력의 한계에 관한 연구 / 안강현, 이우석(충남대학교, 물리학과.)

[B10-st] Complex Systems II

2015년 4월 23일 목요일 11:00 - 12:45

장소: 202호

좌장: 김 철 민 UNIST

B

B10.08* [11:00-11:15]

Population growth and the evolution of cooperation / 박혜진, 김범준, 정형채^(성균관대학교, 물리학과, '세종대학교, 물리학과.)

B10.09 [11:15-11:30]

First-Passage Dynamics of Evolutionary Games in Structured Populations / YANG Hyunmo, GHIM Cheol-Min¹(Department of Physics, UNIST. ²Department of Biomedical Engineering and Department of Physics, UNIST.)

B10.10* [11:30-11:45]

Spreading dynamics with layer-crossing costs in multiplex networks / 민병준, 광상환¹, 고광일¹(Department of Physics and Levich Institute, City College of New York. ²Department of Physics, Korea University.)

B10.11 [11:45-12:00]

Finding Lagrangian Coherent Structures Using Community Detection / LEE Sang Hoon, FARAZMAND Mohammad¹, HALLER George², PORTER Mason³(Department of Energy Science, Sungkyunkwan University. ¹School of Physics, Georgia Institute of Technology. ²Institute of Mechanical Systems, ETH Zurich. ³Mathematical Institute, University of Oxford.)

B10.12 [12:00-12:15]

Correlated Bursts Model with Long-Range Memory / JO Hang-Hyun, PEROTTI Juan¹, KASKI Kimmo², KERTESZ Janos³(POSTECH, Department of Physics. ¹IMT Lucca. ²Aalto University. ³Central European University.)

B10.13 [12:15-12:30]

The SIS immortality transition in small networks / HOLME Petter (Department of Energy Science, Sungkyunkwan University.)

B10.14* [12:30-12:45]

Phase Lead/Lag of Coupled Oscillator Model due to Degree Inhomogeneity in Complex Networks / KO Tae-Wook, KIM Junhyeok¹, MOON Joon-Young², LEE Uncheol³, MASHOUR George³, KIM Seunghwan¹(National Institute for Mathematical Sciences. ¹POSTECH, Department of Physics. ²University of Michigan Medical School, Department of Anesthesiology. ³University of Michigan Medical School, Department of Anesthesiology & Center for Consciousness Science.)

[B11-at] Cold Atom Physics

2015년 4월 23일 목요일 09:00 - 10:45

장소: 204호

좌장: 강 훈 수 광주과학기술원

B11.01 [09:00-09:15]

Phase Dependent Light Switching in a Triple-Lambda System -experiment / 김봉준, 손병욱¹, 고도경¹, 강훈수(광주과학기술원, 고등광기술연구소, ¹광주과학기술원, 물리광학과.)

B11.02 [09:15-09:30]

Realization of ¹⁷⁴Yb Bose-Einstein Condensate (BEC) / 문종철, 이정원, 이재훈(KRISs.)

B11.03 [09:30-09:45]

Core-Shell Magneto-Optical Trap for Alkaline-Earth-Metal-Like Atoms / LEE Jeongwon, LEE Jae Hoon, NOH Jiho, MUN Jongchul(KRISs.)

B11.04 [09:45-10:00]

Realization of quantum degenerate gases of Yb atoms / 신용일, 김민석, 이무송, 한정호, 임영훈, 고범석(서울대학교 물리천문학부.)

B11.05 [10:00-10:15]

Critical Velocity for Vortex Shedding in a Bose-Einstein Condensate / 권우진, 문걸, 서상원, 강세지, 김준현, 신용일(서울대학교 물리천문학부.)

B11.06 [10:15-10:30]

초고안정 원자분수시계 / 박상언, 허명선¹, 권택용¹, GIBBLE kurt², HARTNETT John³, HILTON Ashby³, LUITEN Andre³, 이상범¹, 홍현규¹, 박창용¹, 이원규¹, 유대혁¹ (한국표준과학연구원, 과학기술연합대학원. ¹한국표준과학연구원. ²The Pennsylvania State University, Department of Physics. ³University of Adelaide, IPAS and the School of Physical Sciences.)

B11.07 [10:30-10:45]

Preliminary Results of an Atomic Gravimeter at KRISs / LEE Sang-Bum, KWON Taeg Yong, PARK Sang Eon, HEO Myoung-Sun, HONG Hyung-Gue, PARK Chang Yong, LEE Won-Kyu, YU Dai-Hyuk(KRISs.)

[B11-at] Atomic and Molecular Physics

2015년 4월 23일 목요일 11:00 - 12:00

장소: 204호

좌장: 노 흥 렬 전남대

B11.08 [11:00-11:15]

Generalized Gaussian private quantum channels / JEONG Kabgyun, KIM Jaewan, LEE Su-Yong¹(Korea Institute for Advanced Study, ¹Centre for Quantum Technologies, NUS.)

B11.09 [11:15-11:30]

A quantum speedup in machine learning: finding an N-bit Boolean function for a classification / YOO Seokwon, BANG Jeongho¹, LEE Changhyoup², LEE Jinhyoung(Department of Physics, Hanyang University, Seoul 133-791, Korea. ¹Center for Macroscopic Quantum Control & Department of Physics and Astronomy, Seoul National University, Seoul, 151-747, Korea. ²Centre for Quantum Technologies, National University of Singapore, 3 Science Drive 2, 117543 Singapore.)

B11.10* [11:30-11:45]

State-Dependent Dispersion of Molecules by Pulsed Optical Standing Waves / KIM LeeYeong, ZHAO BumSuk¹(UNIST, 물리학과, ¹UNIST, 화학과, 물리학과.)

B11.11* [11:45-12:00]

DBR 레이저의 광위상잠금 및 소형화 / 이상민, 이상범¹, 홍현규¹, 권택용¹, 허명선¹, 박창용¹, 이원규¹, 유대혁¹, 박상언(한국표준과학연구원, 과학기술연합대학원, ¹한국표준과학연구원)

[B12-te] College Physics Teaching

2015년 4월 23일 목요일 09:00 - 10:45

장소: 205호

좌장: 현 등 길 제주대

B12.01 [09:00-09:15]

물리예비교사를 위한 교직실무 교과목 개발 / 박종원(전남대학교 사범대학 물리교육과.)

B12.02 [09:15-09:30]

예비과학교사를 위한 Learning Assistant 프로그램 기반 실천적 교과교육 과정 개발 / 이지원, 문예린, 오은주, 김중복(한국교원대학교.)

B12.03* [09:30-09:45]

예비교사들의 계에 대한 이해와 에너지 보존법칙 문제해결 사이의 관계 탐색 / 지영래, 정용욱, 송진웅(서울대학교, 물리교육과.)

B12.04* [09:45-10:00]

일반물리학 교재들의 저술 특징과 그 교육적 함의: 원자의 구조 내용을 중심으로 / 권상운, 이경호(서울대학교, 물리교육과.)

B12.05* [10:00-10:15]

물리전공 대학생의 양자역학에 대한 개념이해 및 확신도 성차 분석 / 김성원, 고연주(이화여자대학교, 과학교육학과.)

B12.06 [10:15-10:30]

다이버전스에 대한 예비 물리 교사의 이해 / 조광희(조선대학교.)

B12.07 [10:30-10:45]

Gender difference in high school students' perception on physics formulas / KIM Sung-Won, JANG Jyungeun, PARK Kyung Hwa, LEE Jisun(Ewha Womans University, Department of Science Education.)

[B12-te] Focus: Physics Curriculum

2015년 4월 23일 목요일 11:00 - 12:15

장소: 205호

좌장: 박 윤 배 경북대

B12.08 [11:00-11:15]

2015 문이과 통합형 교육과정 개정: 물리과 개정 개요 / 강남화, 송진웅¹, 윤혜경², 나지연², 김재우³, 이인호⁴, 이미경⁴, 손정우⁵, 오원근⁶, 안종제⁷, 변태진⁸, 최임정⁹(한국교원대학교, ¹서울대학교, ²춘천교육대학교, ³서운중학교, ⁴한국교육과정평가원, ⁵경상대학교, ⁶충북대학교, ⁷덕수고등학교, ⁸한성과학고등학교, ⁹한국과학창의재단.)

B12.09 [11:15-11:30]

2015 과학과 교육과정 개정 시안 - 초등학교 과학과 에너지 영역 / 윤혜경, 이인호¹, 나지연, 송진웅², 김재우³, 이미경¹, 손정우⁴, 오원근⁵, 강남화⁶, 안종제⁷, 변태진⁸, 최한국창의재단⁹(춘천교육대학교, ¹한국교육과정평가원, ²서울대학교, ³서운중학교, ⁴경상대학교, ⁵충북대학교, ⁶교원대학교, ⁷덕수고등학교, ⁸한성과학고등학교.)

B12.10 [11:30-11:45]

2015 과학과 교육과정 개정 시안 - 중학교 과학과 물리 영역 / 이미경, 송진웅¹, 김재우², 윤혜경³, 나지연³, 이인호⁴, 손정우⁵, 오원근⁶, 강남화⁷, 안종제⁸, 변태진⁹, 최임정¹⁰(교육과정평가원, ¹서울대학교, ²서운중학교, ³춘천교육대학교, ⁴한국교육과정평가원, ⁵경상대학교, ⁶충북대학교, ⁷한국교원대학교, ⁸덕수고등학교, ⁹한성과학고등학교, ¹⁰한국과학창의재단.)

B12.11 [11:45-12:00]

2015 문이과 통합형 교육과정 개정: 통합과학-물리 영역 / 오원근, 손정우¹, 강남화², 최임정³, 안종제⁴, 변태진⁵, 윤혜경⁶, 나지연⁶, 이인호⁷, 이미경⁷, 김재우⁸, 송진웅⁹(충북대학교, ¹경상대학교, ²한국교원대학교, ³한국과학창의재단, ⁴덕수고등학교)

교, ⁵한성과학고등학교, ⁶춘천교육대학교, ⁷한국교육과정평가원, ⁸서운중학교, ⁹서울대학교.)

B12.12 [12:00-12:15]

2015 과학과 교육과정 개정 시안 - 고등학교 물리학1, 물리학2 / 안중제, 강남화, 변태진², 최임정³, 윤혜경⁴, 나지연⁴, 이인호⁵, 송진웅⁶, 김재우⁷, 손정우⁸, 오원근⁹(덕수고등학교, ¹한국교원대학교, ²한성과학고등학교, ³한국과학창의재단, ⁴춘천교육대학교, ⁵한국교육과정평가원, ⁶서울대학교, ⁷서운중학교, ⁸경상대학교, ⁹충북대학교.)

[B13-pl] 가속기 및 빔물리

2015년 4월 23일 목요일 09:15 - 10:45

장소: 206호

좌장: 김 은 산 경북대

B13.01* [09:15-09:30]

Shock Acceleration Through the Relativistic Transparency in a Destructed Target / HUR MinSup, KIM YoungKuk, CHO MyungHoon, SONG HyungSun, KANG TeaYoun, PARK HyungJu¹, JUNG MoonYoun¹(UNIST, ¹ETRI.)

B13.02* [09:30-09:45]

원통형 홀 추력기의 자기장 구조에 따른 방전 및 다중전하 특성 연구 / 김호락, 임유봉, 선종호¹, 최원호(KAIST, 물리학과, ¹경희대학교, 우주과학과.)

B13.03 [09:45-10:00]

Beam Optics of RAON Linac / JANG Ji-Ho, JANG Hyo-Jae, JIN Hyun-Chang, CHOI Bong-Hyuk, KIM Hye-Jin, HONG In-Seok, KIM Hyung-Jin, JEON Dong-O(IFS.)

B13.04 [10:00-10:15]

복사압력가속을 이용한 레이저 유도 고에너지 양성자 발생 / 김이중, 최일우, 배기홍¹, 김철민, 김형택, 이창렬², SINGHAL Himanshu¹, 성재희, 이성구, 이황운¹, 정태문, 남창희³(기초과학연구원, 초강력 레이저 과학 연구단, 광주과학기술원, 고등광기술연구소, ¹기초과학연구원, 초강력 레이저 과학 연구단, ²광주과학기술원, 고등광기술연구소, ³기초과학연구원, 초강력 레이저 과학 연구단, 광주과학기술원, 물리광과학과.)

B13.05 [10:15-10:30]

Proton Beam Steering From Ultra-thin Foils Irradiated By Intense Laser Pulses / KAKOLEE Kaniz Fatema, BORGHESI Marco¹, NAM Chang Hee(Institute for Basic Science (IBS), Center for Relativistic Laser Science (CORELS). ¹Queen's University Belfast, Center for Plasma Physics.)

B13.06 [10:30-10:45]

Generation of Relativistic Electron Beam by Laser Wakefield

Acceleration with Density-Tapered Capillary Gas Cell / NAM Inhyuk, KIM Minseok, LEE Seungwoo, SUK Hyyong(Gwangju Institute of Science and Technology (GIST).)

[E] [B13-pa] Pioneer: Axion & Proton EDM II

2015년 4월 23일 목요일 11:00 – 12:45

장소: 206호

좌장: 박 성 태 IBS

B13.07 [11:00-11:26]

Detecting high-frequency gravitational waves with optically levitated sensors / ARVANITAKI Asimina(Perimeter Institute.)

B13.08 [11:26-11:52]

Hunting the Dark Matter Axion with the ADMX experiment / CAROSI Gianpaolo(Lawrence Livermore National Laboratory.)

B13.09 [11:52-12:18]

Axion Dark Matter Experiment (ADMX)– Gen2 / RYBKA Gray (University of Washington.)

B13.10 [12:18-12:44]

Axion Research at CAPP/IBS / CHUNG Woohyun(Center for Axion and Precision Physics, IBS.)

[B14-pa] Experimental, accelerator-based (1) LHC

2015년 4월 23일 목요일 09:00 – 10:45

장소: 209호

좌장: 권 영 준 연세대

B14.01 [09:00-09:13]

Higgs Boson Couplings and Properties with CMS / NAM Soon-Kwon, KROPIVNITSKAYA ANNA, KIM Taehoon, KIM Jungmin, NAM Yeonsoo(Kangwon National University.)

B14.02 [09:13-09:26]

Top quark cross section results using Run 1 data at the CMS / 김태 정, BROCHERO Javier(전북대학교, 물리학과.)

B14.03 [09:26-09:39]

Pseudotop Analysis for Measurement of Normalized Differential Cross Section for the $t\bar{t}$ Production in the Dilepton Channel in pp Collisions at $\sqrt{s}=13$ TeV / ROH Youn Jung, CHOI Suyong, GOH Junghwan¹(Korea University. ¹Sungkyunkwan University.)

B14.04 [09:39-09:52]

Constraints on the Higgs boson width from off-shell production and decay to WW / LEE SangEun(경북대학교.)

B14.05 [09:52-10:05]

Transverse momenta of vector bosons in Drell-Yan processes at LHC center-of-mass energy of 8 TeV / LEE SangEun(경북대학교.)

B14.06 [10:05-10:18]

Search for light non-thermal dark matter at the LHC / OH Youngdo, KIM DongHee, KIM Minsuk, JEONG Namgyun, KAMON Teruki¹(Kyungpook National University, ¹Texas A&M.)

B14.07* [10:18-10:31]

Searches for heavy Majorana neutrinos in same-sign dimuon and dielectron events at the CMS / 오성빈, 김재성, 박재균, 이한열, 서선희, 유금봉, ALMOND John, 양운기(서울대학교.)

B14.08* [10:31-10:44]

The Color Coherence / KIM Hyunyong, LEE Jason, PARK Inkyu(Department of physics, University of Seoul.)

[B14-pa] Experimental, accelerator-based (2) Belle, etc.

2015년 4월 23일 목요일 11:00 – 13:00

장소: 209호

좌장: 이 정 일 고려대

B14.09 [11:00-11:13]

Is the $X(3915)$ the $\chi_{c0}(2P)$? / OLSEN Stephen, CHOI Sookyoung¹(Center for Underground Physics, Institute for Basic Science. ¹경상대학교 물리학과.)

B14.10 [11:13-11:26]

암흑 광자 탐색 실험 / CHOI Suyong(Korea University, Physics Department.)

B14.11 [11:26-11:39]

Status on the Calorimeter Trigger System at Belle II experiment / CHEON B. G., UNNO Y., GOH Y. M., KIM S. H., LEE I. S.(Hanyang University, Dept of Physics.)

B14.12 [11:39-11:52]

Search for $B^+ \rightarrow K^{*0} \bar{K}^{*+}$ decays at Belle experiment / GOH Y. M., UNNO Y., KIM S. H., LEE I. S., CHEON B. G.(Hanyang University, Dept of Physics.)

B14.13 [11:52-12:05]

Study of $B^+ \rightarrow K^* \rho^0$ analysis / KIM M. J., KIM H. J., PARK H., KANG K. H., JEON H. B., KIM B. B., HYUN H. J.¹(Kyungpook National University. ¹POHANG ACCELERATOR LABORATORY.)

B14.14 [12:05-12:18]

Investigation of background subtraction techniques for new physics / 김민석, 김동희(경북대학교, 물리학과.)

B14.15 [12:18-12:31]

Status of Z states / CHOI Sookyung, KBELLE 그룹¹, OLSEN Stephen²(경상대학교 물리학과, ¹Belle Collaboration. ²Institute for Basic Science.)

B14.16* [12:31-12:44]

Search for the lepton flavor violating $B^0 \rightarrow \ell \ell \tau$ decays using hadronic tagging / YOON Youngmin, KWON Youngjoon(Yonsei University, Department of Physics.)

B14.17* [12:44-12:57]

Massive Invisible Particles at Belle experiment / PARK Chanseok, KWON Youngjoon(연세대학교 물리학과.)

SESSION C

2015년 4월 23일(목) 오후

E [C1-nu] Pioneer: Nuclear Physics at the RIB Facilities

2015년 4월 23일 목요일 14:00 – 15:45

장소: 101호

좌장: 유 병 길 한국항공대

C

C1.01(초) [14:00-14:25]

Nuclear astrophysics projects with low-energy RI beams at CRIB
/ YAMAGUCHI H, KAHL D, HAYAKAWA S, SAKAGUCHI Y, NAKAO T, FOR the
CRIB collaboration(CNS.)

C1.02(초) [14:25-14:45]

**Future Opportunities of the Nuclear-symmetry-energy Research
at RAON** / 홍병식(고려대학교.)

C1.03(초) [14:45-15:10]

SpRIT project at RIBF, RIKEN ---present status and future /
MURAKAMI Tetsuya(Kyoto University.), FOR THE SpRIT COLLABORATION

C1.04(초) [15:10-15:30]

**Research Opportunities of Accelerator Driven Subcritical Reactor
by using RAON** / HONG Seung-Woo(Sungkyunkwan University, Department
of Physics.)

C1.05(초) [15:30-15:45]

Shell and shape evolution in exotic nuclei / UTSUNO Yutaka(Advanced
Science Research Center, Japan Atomic Energy Agency, Tokai, Ibaraki 319-1195,
Japan & Center for Nuclear Study, University of Tokyo, Hongo, Tokyo 113-0033.)

E [C1-nu] Pioneer: Nuclear Physics at the RIB Facilities

2015년 4월 23일 목요일 16:10 – 17:40

장소: 101호

좌장: 홍 병 식 고려대

C1.06(초) [16:10-16:30]

Prospects of nuclear astrophysics experiments in Korea / 한인식(이
화여자대학교.)

C1.07(초) [16:30-16:55]

Nuclear Structure(Coulomb Excitation) Experiment at RIBF /
NAKAMURA Takashi(TIT.)

C1.08(초) [16:55-17:15]

Structure, reaction and astrophysics of unstable nuclei / 김우영(경북대학교)

C1.09(초) [17:15-17:40]

Overview of the Rare Isotope Science Project / 정순찬(IBS/RISP)

핵물리분과 총회

2015년 4월 23일 목요일 17:40 – 18:10

장소: 101호

[C2-se-co-ap] Focus: Physical properties of condensed matter under high magnetic fields

2015년 4월 23일 목요일 14:00 – 15:40

장소: 102호

좌장: 김 용 민 단국대

C2.01 [14:00-14:25]

Magneto Resistance in One-Dimensional Polymer Nanofibers / 박영우(서울대학교 물리천문학부)

C2.02 [14:25-14:50]

High Magnetic Field and 2D Vertical Heterojunctions Based on Ferromagnetic Graphene / LEE Seung Joo, MYOUNG Nojoon¹, PARK Hee Chul²(Dongguk University, QSRC. ¹Department of Material Science and Engineering, University of Ioannina, Ioannina 45100, Greece. ²School of Computational Science, Korea Institute of Advanced Study, Seoul Korea.)

C2.03 [14:50-15:15]

Fluctuation effect and vortex dynamics in superconducting NaFe_{1-x}Co_xAs single crystals / KWON Yong Seung, AHMAD D, CHOI W.J., SEO Y.I., SONG K. J.¹, MOSQUEIRA J.²(DGIST. ¹Jeonbuk University. ²Universidade de Santiago de Compostela.)

C2.04 [15:15-15:40]

Magnetic And Electric Phase Diagram Of Multiferroic Triangular Lattice Antiferromagnets Ba₃MNb₂O₉ (M=Co, Ni, Mn) / CHOI Eun Sang, LEE Minseong¹, ZHOU Haidong², DUNN Z. L.², MA J.³, DELA CRUZ C. R.³, MATSUDA M.³, TIAN W.³(National High Magnetic Field Laboratory, Tallahassee, FL, USA. ¹National High Magnetic Field Laboratory. ²University of Tennessee. ³Oak Ridge National Laboratory.)

[C2-se] Focus: Energy Harvesting Technology

2015년 4월 23일 목요일 15:55 – 18:00

장소: 102호

좌장: 장 문 규 ETRI

C2.05 [15:55-16:20]

The colored amorphous Si and SiGe transparent solar cells with high transparency / LIM Jung Wook, LEE Da Jung, YUN Sun Jin(Electronics and Telecommunications Research Institute, 138 Gajeongno, Yuseong-gu, Daejeon 305-700, Korea; Department of Advanced Device Engineering, University of Science and Technology, 113 Gwahangno, Yuseong-gu, Daejeon, 305-333, Korea.)

C2.06 [16:20-16:45]

Transparent Flexible Piezoelectric/Triboelectric Nanogenerators for Self-Powering Small Electronics / KIM Sang-Woo(School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT), Sungkyunkwan University (SKKU), Suwon 440-746, Korea.)

C2.07 [16:45-17:10]

Allotrope-like bismuth nanowires at ambient condition / 이우영(연세대학교 신소재 공학과.)

C2.08 [17:10-17:35]

Thermoelectric Transport in Low-dimensional Materials / 배명호, 최선재¹, 김범규², 김남³, 송종현⁴, 김주진⁵, 신재철⁶(한국표준과학연구원, UST 나노계측학과. ¹한국표준과학연구원, 충남대학교 물리학과. ²한국표준과학연구원, 전북대학교 물리학과. ³한국표준과학연구원. ⁴충남대학교 물리학과. ⁵전북대학교 물리학과. ⁶영남대학교 물리학과.)

C2.09 [17:35-18:00]

Triboelectric nanogenerator for self-powered systems / CHOI Yang-Kyu, KIM Daewon, SEOL Myeong-Lok, PARK Sang Jae, JEON Seung-Bae, WOO Jong-Ho¹(KAIST. ¹Samsung Electronics.)

E [C3-se] Pioneer: 한-일 공동 심포지엄, Ultrafast Nanophotonics

2015년 4월 23일 목요일 14:00 – 15:00

장소: 103호

좌장: 김 광 석 부산대

C3.01 [14:00-14:30]

Ultrafast Dynamics mediated by Surface Plasmons in Metal/semiconductor Nanostructures / SEUNG-HYUN Kim, AHN Kwang Jun¹, YEE KI-JU(Department of Physics, Chungnam National University. ¹Dept. of Energy Systems Research and Dept. of Physics, Ajou University.)

C3.02 [14:30-15:00]

Single carbon-nanotube photonics and optoelectronics / KATO Yuichiro K.(Institute of Engineering Innovation, The University of Tokyo, Tokyo, Japan.)

[C3-se] Pioneer: 한-일 공동 심포지엄 Ultrafast Nanophotonics

2015년 4월 23일 목요일 15:15 – 16:55

장소: 103호

좌장: 조 옹 훈 KAIST

C3.03 [15:15-15:45]

THz spectroscopy in photoexcited semiconductors / NAGAI Masaya(Graduate School of Engineering Science, Osaka University, Toyonaka, Japan.)

C3.04 [15:45-16:15]

Quantum coherence and disorder effect in a single anisotropic quantum ring / KYHM Kwangseuk(Department of Optomechatronics, Pusan National University.)

C3.05 [16:15-16:45]

Single Photon Generation from Nitrogen Isoelectronic Traps in III-V Semiconductors / IKEZAWA Michio, ZHANG Liao, SAKUMA Yoshiki¹, TAKEDA Hiroyuki¹, IKEDA Naoki¹, SUGIMOTO Yoshimasa¹, SAKODA Kazuaki¹, MASUMOTO Yasuaki(Institute of Physics, University of Tsukuba, 1-1-1 Tennoudai, Tsukuba 305-0006, Japan. ¹National Institute for Materials Science, 1-1 Namiki, Tsukuba 305-0044, Japan.)

[C3-se] Semiconductor 일반세션

2015년 4월 23일 목요일 17:00 – 18:00

장소: 103호

좌장: 이 민 철 경희대

C3.06 [17:00-17:15]

Fluorescence enhancement of colloidal quantum dots by localized surface plasmons from metallic nanodisks in light emitting diode applications / 박현철, USMAN Isnaeni¹, 공수현¹, 조용훈¹(KAIST, 나노과학기술대학원. ¹KAIST, 물리학과.)

C3.07 [17:15-17:30]

Spectroscopic Properties of Virtual Frisch-grid CdMnTe Detector / KIM KiHyun, PARK Chansun, KIM Pilsu, CHO Shinhaeng(Korea University, Department of Radiologic Science.)

C3.08 [17:30-17:45]

Correlation Between Leakage Current and Thermal Admittance

Spectrometry Measurements in InGaN/GaN MQW Based Blue Light Emitting Diode / BOURIM El-Mostafa, HAN Jeong In, MOON Hyun-Chan¹, MOON Hyeong-Don¹, YOON Jung-Hwan¹(Department of Chemical and Biochemical Engineering, Dongguk University-Seoul. ¹EyeD Ind. KANC (Korea Advanced Nano Fab Center), Suwon, Gyeonggi-do.)

C3.09 [17:45-18:00]

Ab Initio Study of Extended Defects in GaN: High-Angle Grain Boundary and Dislocation / YOON Sangmoon, YOO Hyobin, KANG Seoung-Hun¹, CHUNG Kunook², YI Gyu-Chul², KWON Young-Kyun¹, KIM Miyoung(School of Materials Science & Engineering, Seoul National University, Seoul 151-744, Korea. ¹Department of Physics and Research Institute for Basic Sciences, Kyung Hee University, Seoul 130-701, Korea. ²School of Physics and Astronomy, Seoul National University, Seoul, Republic of Korea.)

[C3-se] Tutorial : 그래핀과 위상부도체에 기반한 카이럴 물질 연구 현황

2015년 4월 23일 목요일 18:00 – 19:30

장소: 103호

좌장: 박 철 환 서울대

C3.10 [18:00~19:30]

그래핀과 위상부도체에 기반한 카이럴 물질 연구 현황 / 권영균(경희대학교 물리학과.)

[C4-ap] General Session: Carbon based Nanodevices

2015년 4월 23일 목요일 14:00 – 15:45

장소: 104호

좌장: 김 병 훈 인천대

C4.01* [14:00-14:15]

Photo-thermoelectric effect induced photocurrent channel of ABA/ABC lateral junction in tri-layer graphene photodevice / KIM Minjung, CHOI Seon-Myeong¹, YOON Ho Ang², KIM Jung Cheol, LEE Jae-Ung, LEE Sang Wook², SON Young-Woo¹, CHEONG Hyeonsik(Sogang University, Department of Physics. ¹Korean Institute for Advanced Study, School of Computational Sciences. ²Konkuk University, Division of Quantum Phases and Devices.)

C4.02*[14:15-14:30]

Phase Transition of In₂Se₃-graphene Heterostructure for Memory Device Application / CHOI Min Sup, YANG Chenxi, RA Chang Ho, YOO Won Jong(SKKU Advanced Institute of Nano-Technology (SAINT), Sungkyunkwan University.)

C4.03* [14:30-14:45]

Manganese-Particle-Induced Enhancement of the Photoluminescence from Nucleic-Acid-Functionalized Single-Walled Carbon Nanotube / SIM Yumin, LEE Jaesung, SEONG Maeng-Je(Chung-Ang University.)

C4.04* [14:45-15:00]

Monte carlo simulation of Carbon nanotube based X-ray system for tomosynthesis application / 서현덕, 류제황¹, 여승준, 박한국¹(경희대학교 이과대학 물리학과, ¹경희대학교 의과대학 의공학교실.)

C4.05* [15:00-15:15]

The Majority Carrier Device with a Gigantic Responsivity and The Characteristics of Interface Effect on Graphene-Silicon Heterostructure / 최재우, 박홍기(경희대학교 정보디스플레이학과.)

C4.06 [15:15-15:30]

Combination of Quantum Behavior with Charge-Trap Memory Operation in Graphene Device / KANG Haeyong, YUN Yoojoo, LEE Sang Wook¹, LEE Young Hee, SUH Dongseok(Sungkyunkwan University, Department of Energy Science, Center for Integrated Nanostructure Physics, Institute for Basic Science. ¹Konkuk University, Division of Quantum Phases and Devices, School of Physics.)

C4.07 [15:30-15:45]

Nano-physical Investigation of CVD Graphene Monolayer with Gap-Plamson / PARK Won-Hwa(Department of Physics, Sogang University.)

[C4-ap] Focus : Properties and applications of nano carbon materials

2015년 4월 23일 목요일 16:00 – 18:05

장소: 104호

좌장: 서 동 석 성균관대

C4.08(초) [16:00-16:25]

Graphene-based Electronic Textiles / YUN Yong Ju, HONG Won Gi¹, CHOI Nak-Jin², LEE Hyung-Kun², JUN Yongseok, SHIN Dong Seok³, JEON Jun Woo³, KIM Byung Hoon³(Department of Materials Chemistry and Engineering, Konkuk University. ¹Division of Material Science, Korea Basic Science Institute (KBSI). ²Electronics and Telecommunications Research Institute (ETRI). ³Department of Physics, Incheon National University.)

C4.09(초) [16:25-16:50]

Silicon microbeam based gravimetric mass sensors / 유한영, 백인복, 이병준, 이봉국(한국전자통신연구원.)

C4.10(초) [16:50-17:15]

High-power Biofuel Cell Textiles from Woven Biscrolled Carbon Nanotube Yarns / 권정훈(한양대학교, 전기생체공학부.)

C4.11(초) [17:15-17:40]

Percolation Effects in Charge Carrier Transport Properties and Electrostatic Capacitance in Two Dimensional Carbon Nanotube Random Networks / JOO MIN-KYU, MOUIS Mireille¹, JEON Dae-Young², KIM Gyu-Tae³, KIM Un Jeong⁴, LEE Young Hee, GÉRARD Ghibaudo¹(Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Suwon, Kyeonggi 440-746, South Korea. ¹IMEP-LAHC, Grenoble INP, Minatec, BP 257, 38016 Grenoble, France. ²Namlab gGmbH, Nöthnitzer Strasse 64, 01187 Dresden, Germany. ³School of Electrical Engineering, Korea University, Seoul 136-701, South Korea. ⁴Frontier Research Laboratory, Samsung Advanced Institute of Technology, Suwon 440-600, South Korea.)

C4.12(초) [17:40-18:05]

Noise in Low-dimensional Nanomaterials: From Random Telegraph Noise to Johnson Noise / 장성호(건국대학교 물리학부.)

응용물리학과 총회

2015년 4월 23일 목요일 18:00 – 18:30

장소: 104호

[C5-ap] General Session: solar cell, LED, display

2015년 4월 23일 목요일 14:00 – 15:45

장소: 105호

좌장: 조창희 DGIST

C5.01* [14:00-14:15]

Nanostructured Si solar cells for efficient collection of incoming photons and photo-excited carriers / CHO Yuna, GWON Minji, KIM EUNAH, KIM Dong-Wook, PARK Hyeong Ho¹, KIM Joondong²(Ewha Womans University, Department of Physics. ¹Korea Advanced Nano Fab Center (KANC). ²Incheon National University, Department of Electrical Engineering.)

C5.02* [14:15-14:30]

ZnS secondary phase distribution in Cu₂ZnSnS₄ solar cells and solar conversion efficiency / NAM Dahyun, CHO Soyeon, SIM Jun-Hyoung¹, YANG Kee-Jeong¹, SON Dae-Ho¹, KIM Dae-Hwan¹, KANG Jin-Kyu¹, KWON Minsu², JEON Chan-Wook², CHEONG Hyeonsik(Sogang University, Department of Physics. ¹DGIST, Green Energy Research Division. ²Yeungnam University, Department of Chemical Engineering and Technology.)

C5.03* [14:30-14:45]

Study of nano/micro structured polymer films for photovoltaic cell applications / DUDEM Bhaskar, 임정우, 임주호, 유재수(Kyung Hee University, Department of Electronics and Radio Engineering.)

C5.04* [14:45-15:00]

Enhanced Fluorescence from One-dimensional Photonic Crystal Light-emitting Structures / 전현수, 민경택¹, 최세록¹(서울대학교, 생물물리 및 화학생물학과. ¹서울대학교, 물리천문학부.)

C5.05* [15:00-15:15]

Inverted Quantum Dot LED Using Polyethylenimine Ethoxylated Modified ZnO / 김홍희, 황도경, 박철민¹, 최원국(한국과학기술연구원. ¹연세대학교, 신소재공학과.)

C5.06* [15:15-15:30]

Line polarizer array를 이용한 see-through augmented reality head mounted display 구현 / 박민영, 조승제, 최희진(세종대학교, 물리학과.)

C5.07 [15:30-15:45]

ZnS계 형광체와 Polydimethylsiloxane (PDMS)를 사용하여 제작한 탄소 발광 필름의 특성 / 허기석, 김은미, 김남호¹, 우정주², 오정표²(한국생산기술연구원 나노기술집적센터. ¹전남대학교 전기공학과. ²전남대학교 물리학과.)

[C5-ap] General Session / 2D materials and thin films

2015년 4월 23일 목요일 16:00 – 17:30

장소: 105호

좌장: 김 근 수 세종대

C5.08* [16:00-16:15]

Growth of High Quality Epitaxial Graphene on Hexagonal SiC Surface with Molybdenum Plate Capping during UHV Annealing / JIN Han Byul, JEON Youngeun, JUNG Sungchul¹, MODEPALLI Vijayakumar², KANG Hyun Suk³, LEE Byung Cheol³, KO Jae-Hyeon⁴, SHIN Hyung-Joon², YOO Jung-Woo², KIM Sung Youb⁵, KWON Soon-Yong², EOM Daejin⁶, PARK Kibog⁷(School of Electrical and Computer Engineering, UNIST. ¹Department of Physics, UNIST. ²School of Materials Science and Engineering, UNIST. ³Korea Atomic Energy Research Institute. ⁴Department of Physics, Hallym University. ⁵School of Mechanical and Nuclear Engineering, UNIST. ⁶Korea Research Institute of Standards and Science. ⁷School of Electrical and Computer Engineering and Department of Physics, UNIST.)

C5.09* [16:15-16:30]

Study of luminescence mechanisms of graphene-based quantum dots affected by chemical oxidation and reduction process / 장민호, 하현동¹, 이의섭², 김용현², 서태석¹, 조용훈³(KAIST, Department of physics. ¹KAIST,

Department of Chemical and Biomolecular Engineering. ²KAIST, Graduate School of Nanoscience and Technology. ³KAIST, Department of Physics.)

C5.10* [16:30-16:45]

Second harmonic generation of monolayer CVD-grown MoSe₂ / LE Chinh Tam, CLARK Daniel J.¹, SENTHILKUMAR V., JANG Joon I.¹, CHO Heung-Yeol², KIM Yong Soo(Department of Physics and Energy Harvest Storage Research Center (EHSRC), University of Ulsan. ¹Department of Physics, Applied Physics and Astronomy, Binghamton University, Binghamton. ²Department of Physics and Energy Harvest-Storage Research Center, University of Ulsan.)

C5.11* [16:45-17:00]

Local structural properties of epitaxial VO₂ thin films at the metal-insulator transition / JIN Zhenlan, HWANG In-Hui, PARK Chang-In, SON Jae-Kuan, HAN Sang-Wook(Department of Physics Education and Institute of Fusion Science, Chonbuk National University.)

C5.12* [17:00-17:15]

Scanning-probe-based investigations of the phase coexistence in VO₂/TiO₂ thin films / SOHN AHRUM, KANKI Teruo¹, SAKAI Kotaro¹, TANAKA Hidekazu¹, KIM Dong-Wook(Ewha Womans University, Department of Physics. ¹Osaka University.)

C5.13 [17:15-17:30]

Optical and Electrical Properties in Strained V₂O₅ Films / MANIL Kang, SOK WON Kim, JI-WOOK Ryu¹(University of Ulsan, Department of Physics. ¹Kongju National University, Department of Physics.)

[C6-co] Focus: Spin current and magnetization dynamics

2015년 4월 23일 목요일 14:00 - 15:45

장소: 106호

좌장: 박 병 국 KAIST

C6.01 [14:00-14:35]

Aspects of topology-driven magnon transport in Heisebergn-Dzyaloshinskii-Moriya magnet / HAN Jung Hoon(성균관대학교 물리학과.)

C6.02 [14:35-15:10]

Intrinsic Spin Hall Effect Mediated By Atomic Orbital / JUNG Wonsig, GO Dongwook¹, LEE Hyun-Woo¹, KIM Changyoung(Department of Physics, Yonsei University. ¹Department of Physics, POSTECH.)

C6.03 [15:10-15:45]

Measurements of Interfacial Dzyaloshinskii-Moriya Interaction / YOU Chun-Yeol(Department of Physics, Inha University.)

[C6-co] Focus: Structures and Properties in Dielectrics

2015년 4월 23일 목요일 16:00 – 17:45

장소: 106호

좌장: 송 태 권 창원대

C6.04 [16:00-16:26]

Unusual Strain-Lattice Behavior in Strained Cuprates / 이재광(부산대학교, 물리학과.)

C6.05 [16:26-16:52]

In situ X-ray Studies of Functional Oxides for Energy Systems / 장서형(Argonne National Laboratory, US.)

C6.06 [16:52-17:05]

Hybrid Improper Ferroelectric (Ca,Sr)3Ti2O7 / OH Yoon Seok, LUO Xuan¹, HUANG Fei-Ting², WANG Yazhong², CHEONG Sang-Wook²(UNIST, Department of Physics. ¹Postech, Department of Physics. ²Rutgers, Department of Physics and Astronomy.)

C6.07 [17:05-17:18]

Optical investigation of Ce_{1-x}Nb_xO₂ ceramic / HWANG Jungseek, SEO Yu-Seong, CHANG Suyong, KOLODIAZHNYI Taras¹(Department of Physics, Sungkyunkwan University, Suwon, Gyeonggi-do 440-746. ¹National Institute for Materials Science, 1-1 Namiki, Tsukuba, Japan.)

C6.08* [17:18-17:31]

A comparative study on depolarization field and interface effect on the photocurrent of Pt/BNT/Pt and Pt/NKBIT/Pt capacitors / 김일원, 원성식, 안창원, 우원석, 박봉찬, 김희성(울산대학교, 물리학과 & EHSRC.)

C6.09* [17:31-17:44]

Exploration of electromechanical properties based on a finite ionic chain model / CHU Kanghyun, YANG Chan-Ho(KAIST, Department of Physics.)

[E] [C7-co] Pioneer: Frontiers in superconducting electronics

2015년 4월 23일 목요일 14:00 – 15:45

장소: 107호

좌장: 이 용 호 KRISS

C7.01 [14:00-14:45]

The Quest for Superconducting Supercomputers / ROGALLA Horst(EECE Department (University of Colorado Boulder) and Quantum Electronics Group (NIST Boulder), USA.)

C7.02 [14:45-15:15]

Nanoscale superconducting-magnetic hybrid memory element / BAEK Bum, RIPPARD W. H., PUFALL M. R., RUSSEK S. E., SCHNEIDER M. L., BENZ S. P., ROGALLA H., DRESSELHAUS P. D.(National Institute of Standards and Technology, Boulder, CO 80305, USA.)

C7.03 [15:15-15:45]

Superconducting Qubit for Quantum Information Science / CHONG Yonuk(Korea Research Institute of Standards and Science, Daejeon 305-340, Korea.)

E [C7-co] Pioneer: Frontiers in superconducting electronics

2015년 4월 23일 목요일 16:00 – 17:45

장소: 107호

좌장: 정 연 옥 KRISS

C7.04 [16:00-16:30]

Development and applications of superconducting nanowire single photon detectors / MIKI Shigehito(National Institute of Information and Communications Technology, Japan.)

C7.05 [16:30-17:00]

Applications of superconducting quantum interference devices(SQUID) from biomedical diagnosis to fundamental science / LEE Yong Ho(Korea Research Institute of Standards and Science, Daejeon 305-340, Korea.)

C7.06 [17:00-17:30]

Metallic Magnetic Calorimeters and Applications Using Superconducting Electronics / KIM Yong-Hamb(Institute for Basic Science, Center for Underground Physics.)

C7.07 [17:30-17:45]

Development of Superconducting Thermometers for High Resolution X-ray Spectroscopy / LEE Sang-Jun, ADAMS Joseph, AUDLEY Heather, BANDLER Simon, BETANCOURT-MARTINEZ Gabriele, CHERVENAK James, ECKART Megan, FINKBEINER Fred, KELLEY Richard, KILBOUNRE Caroline, PORTER Frederick, SADLEIR John, SMITH Stephen, WASSELL Edward, YOON Wonsik(NASA Goddard Space Flight Center.)

E [C8-co] Focus: Neutron Scattering for Condensed Matter Physics

2015년 4월 23일 목요일 14:00 – 15:30

장소: 108호

좌장: 정재호 고려대

C8.01 [14:00-14:30]

Inelastic Neutron Scattering at J-PARC for Condensed Matter Physics / KAJIMOTO Ryoichi(J-PARC Center, Japan Atomic Energy Agency.)

C8.02 [14:30-15:00]

Hard Condensed Matter Physics at the HANARO Neutron Scattering Facility / PARK Sungil, SONG Ki Myung, LEE Seongsu, OH In-Hwan, LEE June Hyuk, KIM Ki-Yeon, LEE Jeong-Soo, CHUNG Jae-Ho¹, JI Sungdae²(KAERI, Neutron Science Division. ¹Korea Univ., Department of Physics. ²Max Planck POSTECH/Korea.)

C8.03 [15:00-15:30]

Introduction for users to HANARO, J-PARC, JRR-3M and CKorJPARC program / LEE Chang-Hee(Korea Atomic Energy Research Institute.)

E [C8-co] Focus: Neutron Scattering for Condensed Matter Physics

2015년 4월 23일 목요일 16:00 – 17:05

장소: 108호

좌장: 박승일 원자력연구원

C8.04 [16:00-16:30]

Structural studies of hydrogen storage materials with neutron powder diffractions / OTOMO Toshiya(Institute of Materials Structure Science, High Energy Accelerator Research Organization (KEK).)

C8.05 [16:30-16:50]

Disk Chopper Time-of-Flight Spectrometers for condensed matter physics / SO Ji-Yong(Ji-Yong So.)

C8.06* [16:50-17:05]

Spin phonon induced magnetic soft modes in triangular antiferromagnets (Y/Lu)MnO₃ / OH Joosung, LE Man-Duc, SIM Hasung, JEONG Jaehong, PARK Je-Geun, PERRING T. G.¹, NAKAJIMA Kenji², KAWAMURA S. O.², EISAKI H.³, YOSHIDA Y.³, NAHM H.(Center for Correlated Electron systems, Institute for Basic Science (IBS). ¹ISIS Facility, STFC Rutherford Appleton Laboratory. ²J-PARC Center, Japan Atomic Energy Agency. ³National Institute of Advanced Industrial Science and Technology (AIST).)

[C9-co] Multiferroics

2015년 4월 23일 목요일 16:00 – 17:45

장소: 201호

좌장: 박 두 선 성균관대

C9.01 [16:00-16:45]

Coupled electricity and magnetism in frustrated systems and in magnetoelectrics: currents, dipoles and monopoles / KHOMSKII Daniel(Koeln University, Germany.)

C9.02 [16:45-17:15]

Bond-polarization (a.k.a. pd-hybridization) mechanism of multiferroic Mott insulator / JUNG HOON Han(Sungkyunkwan University, Department of Physics.)

C9.03 [17:15-17:45]

Review on the experimental status of multiferroic materials / PARK Je-Geun(Center for Correlated Electron Systems, Institute for Basic Science (IBS), Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea.)

응집물질물리학과 총회

2015년 4월 23일 목요일 17:45 – 18:30

장소: 108호

[C9-co] Tutorial: Quantum phase transitions in strongly correlated electron systems

2015년 4월 23일 목요일 18:30 – 20:00

장소: 201호

좌장: 전 건 상 이화여대

C9.04 [18:30-20:00]

강상관계에서 양자상전이와 초전도 / 박두선(성균관대학교.)

[C10-st] Nonequilibrium/Complex Systems

2015년 4월 23일 목요일 16:00 – 17:45

장소: 202호

좌장: 백 승 기 부경대

C10.01 [16:00-16:15]

Information Thermodynamics for a Feedback with Time Delay / JAEGON Um, CHULAN Kwon¹, JAE DONG Noh², HYUNGGYU Park(Korea Institute for Advanced Study. ¹Myongji University. ²University of Seoul.)

C10.02 [16:15-16:30]

Interrupted coarsening in the zero-temperature kinetic Ising chain driven by a periodic external field / YI Su Do, BAEK Seung Ki

C10.03 [16:30-16:45]

Heat conduction on Langevin harmonic chains / 김상락(경기대.)

C10.04 [16:45-17:00]

Molecular Dynamics study on a Non-Equilibrium Motion of a Colloidal Particle driven by External Torque / 유동환, 권철안, 정영균'
(명지대학교, 물리학과, 'KISTI.)

C10.05* [17:00-17:15]

Predicting Intra City Human Mobility Using Individual Daily Movement Pattern And Land-use / 이민진, 홀메 페터(성균관대학교, 에너지과학과.)

C10.06* [17:15-17:30]

Community Consistency Determines the Stability Transition Window of Powergrid Nodes / KIM Heetae, LEE Sang Hoon, HOLME Petter(Department of Energy Science, Sungkyunkwan University.)

C10.07 [17:30-17:45]

Self-Attracting Walk On Random Scale-Free Networks / LEE Deok-Sun, KIM Kanghun, KYOUNG Jaegu(Department of Physics, Inha University, Incheon 402-751, Korea.)

[C11-at-op] Focus: Light-Atom Interaction

2015년 4월 23일 목요일 14:10 - 15:55

장소: 204호

좌장: 제 원 호 서울대

C11.01 [14:10-14:45]

원자냉각 및 포획 연구의 이정표적 실험들 / 조동현(고려대학교, 물리학과.)

C11.02 [14:45-15:20]

Photochemistry probed by pump-probe X-ray diffraction / 이효철
(IBS, Center for Nanomaterials and Chemical Reactions & KAIST, Department of Chemistry.)

C11.03 [15:20-15:55]

Atom-photon quantum interaction: Generation and engineering of non-classical biphotons using cold atoms / CHO Young-Wook, PARK Kwang-Kyoon, LEE Jong-Chan, KIM Yoon-Ho(Department of Physics, POSTECH, Pohang 790-784, Korea.)

[C11-at-op] Focus: Light-Atom Interaction

2015년 4월 23일 목요일 16:10 - 17:20

장소: 204호

좌장: 정영욱 KAERI

C11.04 [16:10-16:45]

Infinitely long one-nanometer gaps for terahertz and microwave funneling / KIM Dai-Sik (Seoul National University, Department of Physics and Astronomy, Centre for Subwavelength Optics.)

C11.05 [16:45-17:20]

빛의 파형 측정법 / 김경택(초강력레이저과학연구단, 기초과학연구원 & 물리광과학과, 광주과학기술원.)

[C12-as] Cosmology and Gravity

2015년 4월 23일 목요일 14:00 - 15:45

장소: 205호

좌장: 강궁원 KISTI

C12.01(초) [14:00-14:30]

Constraining Theory Parameter of Eddington-inspired Born-Infeld Gravity From Inflation / CHO Inyong (University of Paris 7/Seoul National University of Science and Technology.)

C12.02 [14:30-14:45]

Accuracy on growth rate / LEE Seokcheon (Korea Institute for Advanced Study.)

C12.03 [14:45-15:00]

Fragmentation Instability of anti-de Sitter Black Holes and Gauss-Bonnet Black Holes / GWAK Bogeun, AHN Wha-Keun¹, LEE Wonwoo, LEE Bum-Hoon¹ (서강대 양자시공간연구센터. ¹서강대학교, 물리학과.)

C12.04 [15:00-15:15]

Dynamics of magnetic shells and information loss problem / LEE Wonwoo, LEE Bum-Hoon¹, YEOM Dong-han² (Center for Quantum Spacetime, Sogang University. ¹Center for Quantum Spacetime and Department of Physics, Sogang University. ²National Taiwan University.)

C12.05 [15:15-15:30]

Cosmological Tests using Redshift Space Clustering in BOSS DR11 / 송용선 (한국천문연구원.)

C12.06 [15:30-15:45]

Modeling of Physical Space and Time in Complex Domain / 이남희 (무소속.)

[C12-as] Focus: Gravitational wave research in Korea

2015년 4월 23일 목요일 16:00 – 17:40

장소: 205호

좌장: 박 일 흥 성균관대

C12.07 [16:00-16:25]

Gravitational Wave Physics and KAGRA / 이형원, 김정리¹, 김정초(인제대학교, ¹연세대학교.)

C12.08 [16:25-16:50]

Collaborations in experimental researches with KAGRA: The research on developing a new initial alignment scheme for initial mirror alignments in KAGRA / 조규만, 박준규(서강대학교, 물리학과.)

C12.09 [16:50-17:15]

New Approaches for Identifying Noise Glitches and Improving Data Quality of Gravitational-Wave Data / 오정근(국가수리과학연구소.)

C12.10 [17:15-17:40]

LIGO 중력과 검출 및 파라미터 측정 / 조희석(한국과학기술정보연구원.)

천체물리학과 총회

2015년 4월 23일 목요일 17:45 – 18:00

장소: 205호

좌장: 박 일 흥 성균관대

[C13-pl] 핵융합

2015년 4월 23일 목요일 14:00 – 15:00

장소: 206호

좌장: 김 재 현 NFRI

C13.01* [14:00-14:15]

Bayesian Modelling of Lithium BES Data at JET / KWAK Sehyun, SVENSSON Jakob¹, BRIX Mathias², M.S. Bawa'aneh³, GHIM Young-chul, JET Contributors⁴(Department of Nuclear and Quantum Engineering, KAIST, Daejeon, Korea. ¹Max-Planck-Institut für Plasmaphysik, Greifswald, Germany. ²CCFE, Culham Science Centre, Abingdon, UK. ³Department of Applied Mathematics and Sciences, Khalifa University, UAE. ⁴EUROfusion Consortium, JET, Culham Science Centre, Abingdon, OX14 3DB, UK.)

C13.02 [14:15-14:30]

RF high-voltage and high current test results on the tungsten coated vacuum feedthrough for high-power, long-pulse ICRF operations / 김해진, 왕선정, 선상원, 이유호¹, 박병호(국가핵융합연구소, ¹카이스트, 원자력및양자공학과.)

C13.03 [14:30-14:45]

Progress of Advanced Scenario Development in KSTAR / NA Yong-Su, NA D.H., BYUN C.-S., KIM H.-S., KIM J.¹, JEON Y.-M.¹, BAE Y. S.¹, BAK J. G.¹, IDE S.², JEONG J. H.¹, JOUNG M.¹, KIM J. Y.¹, KIM S. H.³, KWAK J. G.¹, LEE S. G.¹, MUELLER D.⁴, OH Y. K.¹, PARK J. M.⁵, PARK S. I.¹, SUZUKI T.², YOON S. W.¹(Seoul National University, Department of Nuclear Engineering. ¹National Fusion Research Institute. ²Japan Atomic Energy Agency. ³ITER Organization. ⁴Princeton Plasma Physics Laboratory. ⁵Oak Ridge National Laboratory.)

C13.04 [14:45-15:00]

Recent experimental results and research plan of VEST / LEE H.Y., AN Y.H., LEE J.W., JO J.G., KIM Y.G., JO J.M., YANG J.H., PARK J.Y., YANG S.M., KIM Y.S., KIM S.C., LEE K.H., JUNG B.K.¹, KIM S.H.¹, CHUNG K.J., NA Y.S., HWANG Y.S.(Seoul National University, Nuclear Engineering. ¹Korea Atomic Energy Research Institute.)

[C13-pl] Focus: KSTAR

2015년 4월 23일 목요일 15:10 - 18:10

장소: 206호

좌장: 노 승 정 단국대

C13.05* [15:10-15:40]

KSTAR 2014 experimental results toward demo / 곽종구(국가핵융합연구소.)

C13.06 [15:40-16:10]

Recent progress on pedestal physics research at KSTAR / 윤시우, 고원하, 이종하, 남용운, 전영무, 김재현, 인용균, 윤건수¹, 이현용²(국가핵융합연구소. ¹포항공과대학교, ²한국과학기술원.)

C13.07 [16:10-16:40]

Recent Research Activities on MHD and Energetic Particle Physics in KSTAR / BYOUNGHO Park, YONGKYOON In, JAYHYUN Kim, MI Jung, MINWHA Woo, JINHYUN Jung, JUNGHEE Kim, TONGNYEOL Rhee, JUNG-YO Bak, JUNGYOUNG Kim¹, KSTAR team(National Fusion Research Institute. ¹University of Science and Technology.)

C13.08 [16:40-17:10]

Toroidal rotation and momentum transport studies in KSTAR / LEE Sang Gon, KSTAR Team(National Fusion Research Institute.)

C13.09 [17:10-17:40]

Localized explosive magnetic reconnection in magnetized plasmas / 윤건수, 김민호, 최경현, 남윤범, 임준억, THATIPAMULA Shekar, 이우창, 박현거¹, 김강욱², 이상곤³(포항공과대학교, ¹울산과학기술대학교, ²경북대학교, ³국가핵융합연구소.)

C13.10 [17:40-18:10]

Off-Axis Current Drive in KSTAR Plasmas Using Helicon Wave /

WANG S. J., KIM H. J., WI H. H.¹, KIM J. H., PARK B. H., KWAK J. G.(NFRI, ¹광운대학교.)

[C14-pa] Experimental, accelerator-based (3) LHC

2015년 4월 23일 목요일 14:00 - 14:55

장소: 209호

좌장: 유 인 태 성균관대

C14.01 [14:00-14:13]

Development of the Level-1 Pixel Trigger for the CMS Phase-2

Upgrade / YU Geumbong, YANG Un-ki, KIM Junho, PARK Jaegyun, OH Sungbin, MOON Chang-Seong¹, SAVOY-NAVARRO Aurore²(Seoul National University, Dept of Physics and Astronomy. ¹UNESP-Universidade Estadual Paulista. ²Universite Paris-Diderot/CNRS.)

C14.02 [14:13-14:26]

Development of the Level-1 Pixel Trigger for the Phase-2 Upgrade

/ 유금봉, 양운기, 김준호, 오성빈, 박재균, SAVOY-NAVARRO Aurore¹(서울대학교, ¹Universite Paris-Diderot/CNRS.)

C14.03* [14:26-14:39]

Trigger Study Of HLT_Mu17_TkMu8 For Boosted J/Psi In The mu+mu- Final State With The CMS Experiment In pp Collisions At Sqrt{s}=8 TeV / NAM Soon-Kwon, KROIVNITSKAYA Anna, KIM TaeHoon, KIM JungMin, NAM YeonSeo(강원대학교.)

C14.04* [14:39-14:52]

Nuclear Interaction Study at CMS Tracker / NAM Soon-Kwon,

KROIVNITSKAYA Anna, KIM Jungmin, KIM TaeHoon, NAM Yeonsoo, GOUZEVITCH MAXIME¹(Kangwon National University. ¹UCBL, Lyon.)

[C14-pa] Particle Theory

2015년 4월 23일 목요일 15:15 - 16:30

장소: 209호

좌장: 김 철 서울과기대

C14.05 [15:15-15:30]

Gigantic diphoton rate of heavy Higgs boson in the aligned 2HDM with small $\tan\beta$ / YOON Yeo Woong, SONG Jeonghyeon(Konkuk Univ.)

C14.06 [15:30-15:45]

Stoponium from lattice QCD / KIM Seyong(Department of Physics, Sejong University.)

C14.07 [15:45-16:00]

Tau Neutrinos from Charmed Meson Decay / 정유선, 김충선, RENO Mary Hall¹(연세대학교, 물리학과. ¹The University of Iowa.)

C14.08* [16:00-16:15]

Quark fragmentation into spin-triplet S-wave quarkonium / BODWIN Geoffrey T., CHUNG Hee Sok, KIM U-Rae¹, LEE Jungil¹(Argonne National Laboratory. ¹Korea University.)

C

C14.09* [16:15-16:30]

The galactic center gamma ray excess from leptophilic Z' model in gauged lepton numbers / KIM Jongkuk, PARK Jong Chul, PARK Seong Chan(Sungkyunkwan University.)

입자물리학과 총회

2015년 4월 23일 목요일 16:30 – 17:00

장소: 209호

좌장: 고 병 원 고등과학원

SESSION D

2015년 4월 24일(금)

[D1-nu] Nuclear Instrumentations

2015년 4월 24일 금요일 09:00 - 10:45

장소: 101호

좌장: 김은주 전북대

D1.01* [09:00-09:15]

Simulation of neutron detector with realistic pulse response for the high-energy LAMPS at RAON / 김범곤, 심현하, 홍병식, 이경세(고려대학교.)

D1.02* [09:15-09:30]

Characterization of Prototype Pixel Chip Explorer for ITS upgrade of ALICE detector / 최경언, 김지영, 유인권(부산대학교.)

D1.03* [09:30-09:45]

Laser Soldering QA for the module construction in ALICE ITS upgrade project / BONG-HWI Lim, IN-KWON Yoo(Pusan National University Department of Physics.)

D1.04 [09:45-10:00]

Beam data analysis of pALPIDE(Prototype of ALICE Pixel DEtector) with 60MeV electron at Pohang Accelerator Lab(PAL). / EUM Jongsik, CHOI Kyungeon, KIM jiyoun, LIM Bong-Hwi, YOO In-Kwon(Department of Physics, Pusan National University.)

D1.05 [10:00-10:15]

Activity of INHA university for the ALICE ITS upgrade / 박종한(인하대학교.)

D1.06* [10:15-10:30]

Effect of Si-CsI array on the neutron measurement for the low-energy LAMPS at RAON / 박재범, 정우승, 이종원, 이경세, 안정근, 홍병식, 김영진¹, 신태수¹, 김은주², 문동호³(고려대학교, ¹IBS, ²전북대학교, ³전남대학교.)

D1.07* [10:30-10:45]

Development of the multi-neutron finding method for the high-energy LAMPS neutron array at RAON / 심현하, 김범곤, 이경세, 홍병식(고려대학교.)

[D1-nu] Relativistic Heavy Ion Physics II

2015년 4월 24일 금요일 11:00 - 12:30

장소: 101호

좌장: 권영일 연세대

D1.08* [11:00-11:15]

Preliminary mid-rapidity double helicity asymmetry of neutral pion production in longitudinally polarized proton-proton collision at center of mass energy 510 GeV with PHENIX experiment / YOON INSEOK, KIYOSHI TANIDA(Seoul National University.)

D1.09 [11:15-11:30]

Alignment of the PHENIX Silicon Vertex Tracker (VTX) in 2014 Run / MOON Taebong(for the PHENIX collaboration.)

D1.10* [11:30-11:45]

Perspectives of gamma-hadron correlation in CMS heavy-ion collisions for LHC RUN2 / 고연주, 김용선, 김현철, 이기수, 이송교, 조미희, 홍병식(고려대학교, 물리학과.)

D1.11 [11:45-12:00]

Temperature Dependent Meson Spectroscopy In Heavy Ion Collisions / 김민정, 윤진희, 권민정(인하대학교, 물리학과.)

D1.12* [12:00-12:15]

Analysis of both the ratios and the transverse momentum spectra of hadrons at RHIC energy using an iterative method within a blast-wave model / CHOI Ji Young, CHOI Suk¹, LEE Kang Seog(전남대학교, 물리학과. ¹중이온가속기구조사업단.)

D1.13* [12:15-12:30]

Production of B mesons in pPb and feasibility study in PbPb for CMS / 이기수, 김현철, 고연주, 김용선, 이송교, 조미희, 홍병식(고려대학교.)

[D2-se] Focus: Physical properties of condensed matter under high magnetic fields

2015년 4월 24일 금요일 09:00 - 10:15

장소: 102호

좌장: 최은상

D2.01 [09:00-09:25]

Development of a pulsed magnet system at Seoul National University / YOO Kyongjun, JANG Zeehoon¹, KIM Kee Hoon(Center for Novel States of Complex Materials Research, Department of Physics and Astronomy and Institute of Applied Physics, Seoul National University, Seoul 151-747, Korea. ¹Department of physics, Kookmin University, Seoul 136-702, Korea.)

D2,02 [09:25-09:50]

**Quantum magnets investigated by high magnetic field facilities:
Examples** / CHOI Kwang-Yong(Chung-Ang University, Department of Physics.)

D2,03 [09:50-10:15]

**Electron spin resonance study of phosphorus donors doped into
crystalline silicon** / LEE SangGap(Korea Basic Science Institute.)

[D2-se] Semiconductor 일반세션

2015년 4월 24일 금요일 10:30 – 12:00

장소: 102호

좌장: 유재수 경희대

D2,04* [10:30-10:45]

**The Super unit cell formation of Poly (3-hexylthiophene) after
cryo-cooling** / 이시우, 채상민, 조국현, 이현휘¹, 이동률², 김효정(부산대학교,
¹포항가속기연구소, ²송실대학교.)

D2,05* [10:45-11:00]

**무반사 생체모방형 나노구조 폴리머 필름 코팅을 이용한 태양전지 모듈 효
율 개선 연구** / 이수현, 임정우, GUAN Xiang-Yu, 최민규, 유재수(경희대학교 전
자전파공학과.)

D2,06* [11:00-11:15]

**Visible-light photocatalytic activity of sol-gel synthesized SrCrO4
particles** / LANKAMSETTY KRISHNA BHARAT, YU JAE SU(경희대학교 전자전
파공학과.)

D2,07* [11:15-11:30]

**Phase-Engineered Synthesis of Centimeter-Scale Thin 1T'- and 2H-
Molybdenum Ditelluride Films** / 박진철, 윤석준¹, 김현¹, 박지훈², 안성진¹,
김정균¹, 김기강³(Center for Integrated Nanostructure Physics, Institute for Basic
Science, Department of Physics, Sungkyunkwan University. ¹Center for Integrated
Nanostructure Physics, Institute for Basic Science, Department of Energy Science,
Sungkyunkwan University. ²Center for Integrated Nanostructure Physics, Institute
for Basic Science, Sungkyunkwan University. ³Department of Energy and Materials
Engineering, Dongguk University-Seoul.)

D2,08* [11:30-11:45]

**Upconversion emission of rare-earth ions tridoped
Na0.5Bi0.5TiO3 for optical temperature sensing applications** /
DU Peng, YU Jae Su(Kyung Hee University, Department of Electronics and Radio
Engineering.)

D2.09* [11:45-12:00]

Rate-Equation을 통해 수치해석적으로 살펴본 InAs/GaAs 양자점 레이저 다이오드의 Double-state Lasing 동작 특성 / 이종민, 전봉환, 이동한, 김정호¹(충남대학교, 물리학과, ¹경희대학교, 정보디스플레이학과.)

[D3-se] Semiconductor 일반세션

2015년 4월 24일 금요일 09:00 - 10:00

장소: 103호

좌장: 류 미 이 강원대

D

D3.01* [09:00-09:15]

Unveiling highly stable features of Al metal evaporation-assisted solution-processed ZnO thin film transistors / JINPYO HONG, TAESUNG KANG, SEJUN KWON(Hanyang University.)

D3.02* [09:15-09:30]

InAs/GaAs 단일 양자점의 편광특성 연구 / 진병문, 백종서, DEVARAJ Vasanthan, 이종민, 장유동, 이동한, 송진동¹(충남대학교, 물리학과, ¹KIST, Nanophotonics Research Center.)

D3.03* [09:30-09:45]

Optical Aharonov-Bohm effect of a quantum dot-coupled closed loop in ensemble system / 김광석, 이우진¹, KIBA Takayuki², MURAYAMA Akihiro², 김수진³, 이종수³, FOMIN VLADIMIR M.⁴(부산대학교 인지메카트로닉스공학과, 물리교육과, 유전체물성연구소, ¹부산대학교 인지메카트로닉스공학과, ²Hokkaido University, Graduate school of Information Science and Technology, ³대구경북과학기술원, 에너지시스템공학전공, ⁴IFW Dresden, Institute for intergrative Nanosciences.)

D3.04* [09:45-10:00]

Efficient Tip Fabrication Method For Tip-Enhanced Raman Spectroscopy / 정문석, 이찬우, 김성태, 박두재¹(기초과학연구원 나노구조물리 연구단, 성균관대학교 에너지과학과, ¹한림대학교 물리학과.)

[D3-se] Focus: Emerging nano-materials

2015년 4월 24일 금요일 10:15 - 12:45

장소: 103호

좌장: 정 문 석 성균관대

D3.05 [10:15-10:40]

Tuning structural and optical properties of quantum dots / 이홍석 (전북대학교, 물리학과.)

D3.06 [10:40-11:05]

Synthesis of centimeter-scale transition metal dichalcogenides / KIM Ki Kang(Department of Energy and Materials Engineering, Dongguk

D3.07 [11:05-11:30]

Structural and Electronic Properties of Anionic Gold Nanocages
XAu₁₆⁻ (X = N, O, or S) / KIM Gunn(Department of Physics, Sejong University.)

D3.08 [11:30-11:55]

나노스케일 분광이미징을 이용한 단층 MoS₂ 박막의 결정 경계 (grain boundary) 의 광시각화 / 김정용(성균관대학교 에너지과학과.)

D3.09 [11:55-12:20]

Synthesis of superior substrate for 2D materials / 김수민, 김기강(한국과학기술연구원, 소프트혁신소재연구센터, ¹동국대학교, 융합에너지신소재공학과.)

D3.10 [12:20-12:45]

Electronic and optical properties of few-layered monoclinic MoTe₂ / 양희준, 조수연, 김세라, 김정호, ZHAO Jiong, 최덕현¹, 장기주¹, SUENAGA Kazu², 김성웅, 이영희(성균관대학교 에너지과학과, ¹KAIST 물리학과, ²AIST, Japan.)

[D4-ap] General Session: Photonics and optoelectronics

2015년 4월 24일 금요일 09:00 - 10:25

장소: 104호

좌장: 이 연 진 연세대

D4.01(초) [09:00-09:25]

Relation Between Unit-Cell Dimension and Resonance Wavelength in Metamaterial Absorbers / 유영준, 이영백(한양대학교 물리학과.)

D4.02* [09:25-09:40]

자연 산화막을 지니는 티타늄 박막의 특성 연구 / 최재우, 이창묵(경희대학교, 정보디스플레이.)

D4.03* [09:40-09:55]

외부 자극에 감응하는 금속-절연체-금속 공진기 / 김성환, 권현수(아주대학교 물리학과&에너지시스템학과, ¹아주대학교 에너지시스템학과.)

D4.04* [09:55-10:10]

약한 측정을 통해 조절되는 메타물질의 광자 스핀 홀 효과 / 우정원, 이연의(이화여자대학교, 물리학과.)

D4.05* [10:10-10:25]

조성적으로 무질서한 광자결정 내에서 발생하는 강한 광자 국지화 현상의 실험적 관측 / 전현수, 이명재¹, 강민수¹(서울대학교, 생물물리 및 화학생물학과, ¹서울대학교, 물리천문학부.)

[D4-ap] General Session: Spin, Bio

2015년 4월 24일 금요일 11:00 - 12:00

장소: 104호

좌장: 정 란 주 광운대

D4.06* [11:00-11:15]

나선형 자구벽 기반 2차원 자기 Bubblecade 메모리 / 김덕호, 문경웅¹, 유상철, 제송근, 김대연, 전병선¹, 김원동¹, 민병철², 황찬용¹, 최석봉(서울대학교, 물리천문학부, ¹한국표준과학연구원, ²한국과학기술연구원.)

D4.07* [11:15-11:30]

Berry phase from the atomic orbital and its effect on spin dynamics / GO Dongwook, JUNG Wonsik¹, LEE Hyun-Woo, KIM Changyoung¹(Department of Physics, POSTECH. ¹Department of Physics, Yonsei University.)

D4.08* [11:30-11:45]

FCS를 이용한 long human telomere G-quadruplex의 diffusion property 측정 / 이동근, 김수용, 김석원¹(KAIST, 물리학과, ¹울산대학교, 물리학과 에너지 하비스트 스토리지 연구소.)

D4.09 [11:45-12:00]

Development of Cryogenic Coherent Diffraction Microscope / NAM Daewoong, KIM Chan¹, KIM Yoonhee², FAN Jiadong³, KIM Junhyeong¹, LEE Ki Bong, NOH Do Young⁴, SONG Changyong(Physics Department, POSTECH. ¹Department of Physics and Photon Science, GIST. ²School of Materials Science and Engineering, GIST. ³RIKEN SPring-8 Center, Hyogo, Japan. ⁴Department of Physics and Photon Science & School of Materials Science and Engineering, GIST.)

[D5-ap] General Session: Device and interface

2015년 4월 24일 금요일 09:00 - 10:45

장소: 105호

좌장: 장 영 준 서울시립대

D5.02* [09:15-09:30]

Switching Mechanism And Multi-Level Cell in the Bipolar Resistance Switching Device / NA Sang-Chul, CHUN Min Chul, SHIN Hye-Jin, KWON Young-Sun, KANG Bo Soo(Hanyang University.)

D5.03* [09:30-09:45]

단사정계 MoTe₂ 단결정을 이용한 수소 발생 반응 응용 / 석진봉, BING Li, 조수연¹, 금동훈, 양희준, 이영희(성균관대학교 에너지과학과, 기초과학연구원 나노구조물리연구단, ¹기초과학연구원 나노구조물리연구단.)

D5.04* [09:45-10:00]

Effect of Surface Energy Minimization on the Selective Nucleation of [1-10-3]-oriented GaN Twins on an SiO₂-Patterned m-plane Sapphire Substrate / 윤한섭, 주미연, 이상화, 장동수, 김진교(경희대, 물리학과.)

D5.05* [10:00-10:15]

열반사율 측정법을 이용한 TiN 박막의 열확산도 측정 / 김태성, 이재란, 강만일, 김석원, 이상현(울산대학교 물리학과 에너지-하비스트-스토리지 연구센터, 한국표준과학연구원.)

D5.06 [10:15-10:30]

Physical properties of Fe doped SrRuO₃ epitaxial thin film / CHANG UK Jung, KIRSTIE RAQUEL NATALIA Toreh(Hankuk University of Foreign Studies.)

D5.07* [10:30-10:45]

Temperature-dependent Thermal Conductivity of Post-annealed Antimony Telluride Thin Films using 3-omega Method / PARK No-Won, LEE Won-Yong, PARK Tae-hyun, PARK Sang-In, CHO sang-hyeok, LEE sang-kwon(Department of Physics, Chung-Ang University.)

[D6-co] Nano/mesoscopy II

2015년 4월 24일 금요일 09:00 - 10:45

장소: 106호

좌장: 장 성 호 건국대

D6.01 [09:00-09:13]

SIMS와 APT를 활용한 재료분석 / 김성규, 이재혁, 차현구, 박찬경(포항공과대학교 나노융합기술원, 포항공과대학교 나노융합기술원, 신소재공학과.)

D6.02 [09:13-09:26]

Optical Absorption of Twisted Bilayer Graphene with Interlayer Potential Asymmetry / MOON Pilkyung, KOSHINO Mikito¹, SON Young-Woo²(New York University Shanghai, Arts and Sciences. ¹Tohoku University, Department of Physics. ²Korea Institute for Advanced Study, School of Computational Sciences.)

D6.03 [09:26-09:39]

One-dimensional Moiré Superlattices: Double-walled Carbon Nanotubes / MOON Pilkyung, KOSHINO Mikito¹, SON Young-Woo²(New York University Shanghai, Arts and Sciences. ¹Tohoku University, Department of Physics. ²Korea Institute for Advanced Study, School of Computational Sciences.)

D6.04 [09:39-09:52]

Single and multilayer MoTe₂ field-effect transistors / IERMOLENKO Volodymyr M., IQBAL Muhammad Waqas, 엄종화(세종대학교, 물리학과.)

D6.05* [09:52-10:05]

Raman Scattering Spectroscopy and FDTD Simulation Study of ZnO Nanorod Films Blended with Si Nanoparticles / YOON Seokhyun, MOON Hankyoul, NGUYEN Thi Thu Trang, SHIN Hae-Young, PARK Jong-Hyurk¹, LEE Yun Sang²(Department of Physics, Ewha Womans University, Seoul 120-750, Korea. ¹Electronics and Telecommunications Research Institute (ETRI), Daejeon 305-700, Korea. ²Department of Physics, Soongsil University, Seoul 156-743, Korea.)

D6.06* [10:05-10:18]

First Principle Study of Equilibrium Structure and Phase Transition Properties of Phase Change Material: GeTe / PARK Hanjin, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University, Seoul, Korea)

D6.07* [10:18-10:31]

Single-layer WS₂ field-effect transistors sandwiched between hexagonal BN films / IQBAL Muhammad Waqas, KHAN Muhammad Farooq, 엄종화(세종대학교, 물리학과.)

D6.08* [10:31-10:45]

Reversible doping of graphene by KNO₃ solution and observation of photo-desorption current / KHAN Muhammad Farooq, IQBAL Muhammad Waqas, 엄종화(세종대학교, 물리학과.)

[D6-co] Superconductivity

2015년 4월 24일 금요일 11:00 - 12:45

장소: 106호

좌장: 심 지 훈 포항공대

D6.09 [11:00-11:30]

Majorana zero mode in the perovskite oxide 2DEGs / 정석범, CHAN Cheung¹, YAO Hong¹(서울대학교, IBS-CCES, ¹Tsinghua University, Institute for Advanced Study.)

D6.10 [11:30-11:45]

Spin-orbit coupling, electron-phonon interactions in SrPtAs: non-centrosymmetric superconductor with global inversion symmetry / RHIM S.H., YOUN S.J.¹, NAKAMURA Kohji², AGTERBERG Daniel F.³, WEINERT Michael³(울산대학교, ¹경상대학교, ²U. Mie, ³U. Wisconsin-Milwaukee.)

D6.11 [11:45-12:00]

Superconducting Sr₂V_{0.3}FeAs investigated with Scanning Tunneling Microscopy / CHOI Seokhwan, CHOI Hyunwoo, LEE Hyun-Jung, JUNG Jin-Oh, SON Dong-Hyun, LEE Alex Tae-Kyung¹, OK Jong Mok², KIM

Jun Sung², LEE Jinhwan(KAIST, Dept. of Physics. ¹Columbia University, Dept. of Physics. ²POSTECH, Dept. of Physics.)

D6.12* [12:00-12:15]

Quantitative Analysis of Charge Modulations in The Pseudo-Gap States of Bi₂Sr₂CaCu₂O_{8+δ} / LEE Gyoung Seok, KIM Jae-joon, PHARK Soo-hyon¹, YOO Jung Hoon, PARK Min Seok, JOO Sang Hyun, GWAK Jung Soo, LEE Jinho(Department of Physics & Astronomy, Seoul National University. ¹Center for Correlated Electron Systems, Institute for Basic Science, Seoul National University.)

D6.13* [12:15-12:30]

Mechanism of Charge Density Wave in Pt-based Superconductors: SrPt₂As₂ and LaPt₂Si₂ / SOORAN KIM, KYOO KIM, B.I. MIN(POSTECH.)

D6.14 [12:30-12:45]

Pressure induced phase diagram of high quality FeSe / JO Younjung, KIM Ji-hye, HONG Yoonjung, OK Jong Mok¹, KWON Chang Il¹, KIM Jun Sung¹, KANG Won²(Kyungpook National University, Physics. ¹POSTECH, Dept. of Physics. ²Ewha Womans University, Dept. of Physics.)

[D7-co] Strongly correlated systems I

2015년 4월 24일 금요일 09:00 - 10:45

장소: 107호

좌장: 전 건 상 이화여대

D7.01* [09:00-09:17]

Dilute Magnetic Topological Semiconductors / 김경민, 조용수, 김기석(POSTECH, Physics.)

D7.02* [09:17-09:34]

Topological Fermi-Liquid Theory / JHO Yong soo, KIM Ki seok(POSTECH.)

D7.03* [09:34-09:51]

Helium adsorption on graphite: Path-integral Monte Carlo study / AHN Jeonghwan, LEE Hoonkyung, KWON Yongkyung(건국대학교, 물리학과.)

D7.04* [09:51-10:08]

Observation of half-quantum vortices in a spin-1 antiferromagnetic Bose-Einstein condensate / 신용일, 서상원, 강세지, 권우진(Seoul National University.)

D7.05* [10:08-10:25]

Exploration of BaBiO₃ in the two-dimensional limit: evolution of lattice and electronic structure / KIM Gideok, NEUMANN Michael, KIM

Minu, KANG Tae Dong, NOH Tae Won(Center for Correlated Electron Systems, IBS.)

D7.06* [10:25-10:42]

Optical Femtosecond Pump Probe Study of Mott Insulator Ca_2RuO_4 / LEE Min-Cheol, SEO Choongwon¹, LEE Yeongseon¹, KWAK Inho, SOHN Chang Hee, SOW Chanchal², MAENO Yoshiteru², KIM Kyungwan¹, NOH Tae Won(Center for Correlated Electron System (CCES), Institute for Basic Science (IBS). ¹Department of Physics, Chungbuk National University. ²Department of Physics, Kyoto University.)

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[D7-co] Strongly correlated systems II

2015년 4월 24일 금요일 11:00 – 12:45

장소: 107호

좌장: 송 종 현 충남대

D7.07 [11:00-11:17]

LDA+DMFT implementation in a non-orthogonal local 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.)

D7.08 [11:17-11:34]

DFT+DMFT Study of Composition and Temperature Dependent Electronic Structure and Metal-Insulator Transition in $\text{NiS}_{2-x}\text{Se}_x$ / MOON Chang-Youn, JI HOON Shim¹(Korea Research Institute of Standards and Science. ¹Pohang University of Science and Technology.)

D7.09 [11:34-11:51]

Two Particle Vertex and Dynamical Mean Field Theory / LEE CHOONG-KI, CHOI HYOUNG JOON(Department of Physics and IPAP, Yonsei University. Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University.)

D7.10 [11:51-12:08]

Dynamical mean-field theory for the Kondo lattice URu_2Si_2 / LEE Hyun-Jung, KANG Hanhim¹, SHIM Ji-Hoon¹(KAIST, Dept. of Physics. ¹POSTECH, Dept. of Chemistry.)

D7.11 [12:08-12:25]

RG-Improved Perturbation Theory of Kondo Effect Based on the Schwinger-Boson Representation / HAN Jae-Ho, TRAN Minh-Tien¹, KIM Ki-Seok²(POSTECH, Dept. of Physics. ¹Vietnam Academy of Science and Technology, Institute of Physics. ²POSTECH, Dept. of Physics.)

D7.12 [12:25-12:42]

Surface Majorana fermions and bulk collective modes in superfluid $^3\text{He-B}$ / PARK YEJE, CHUNG SUK BUM¹, MACIEJKO Joseph² (KAIST, 물리학과. ¹Center for Correlated Electron Systems, Institute for Basic Science. ²University of Alberta, physics.)

[D8-co] Computational Condensed-Matter Physics

2015년 4월 24일 금요일 09:00 – 10:45

장소: 108호

좌장: 권영균 경희대

D8.01 [09:00-09:13]

La-Displacement Driven Double-Exchange Like Mediation in Titanium d_{xy} Ferromagnetism at the $\text{LaAlO}_3/\text{SrTiO}_3$ / ODKHUU Dorj, RHIM S. H.¹, SHIN Dongbin², PARK Noejung²(Department of Physics, Incheon National University. ¹Department of Physics, University of Ulsan. ²Department of Physics, Ulsan National Institute of Science and Technology.)

D8.02 [09:13-09:26]

The study of orbital angular momentum and spin-splitting in triangular lattice / OH SEHOON, CHOI HYOUNG JOON(Department of Physics and IPAP, and Center for Computational Studies of Advanced Electronic Material Properties, Yonsei University, Seoul, Korea.)

D8.03* [09:26-09:39]

Atomic and electronic properties of monolayer MoTe_2 / CHOE Duk-Hyun, SUNG Ha-Jun, KIM Sung Wng¹, LEE Young Hee¹, YANG Heejun¹, CHANG Kee Joo(Department of Physics, KAIST. ¹IBS Center for Integrated Nanostructure Physics (CINAP), Institute for Basic Science, Sungkyunkwan University; Department of Energy Science, Sungkyunkwan University.)

D8.04* [09:39-09:52]

First-principles Study of Work Function Changes in Alkali-metal Adsorbed MoTe_2 and WTe_2 / 김솔, 지승훈(포항공과대학교.)

D8.05* [09:52-10:05]

Electronic structure and thermoelectric properties of $(\text{PbSe})_m / (\text{SnSe})_n$ superlattice: A first principles study / HONG Soon Cheol, RHIM S. H., CUONG Do Duc, LEE Joo-Hyoung¹(울산대학교 물리학과. ¹Department of Materials Science and Engineering, Gwangju Institute of Science and Technology.)

D8.06* [10:05-10:18]

First Principles Investigation for the Enhancement of ZT and its Microscopic Origin in GBT (mixture of Bi_2Te_3 and GeTe) compounds / KIM Jae Nyeong, SHIM Ji-Hoon(Department of Chemistry, Pohang University of Science and Technology, Pohang 790-784, Korea.)

D8.07 [10:18-10:31]

First-principles Study of Thermoelectric Properties of Bi_2Te_3 , Bi_2Se_3 , and Sb_2Te_3 Thin Films / 임명수, 지승훈¹(포항공대, 첨단재료과학부, ¹포항공대, 물리학과.)

D8.08* [10:31-10:44]

Development of a full ab-initio non-equilibrium quantum transport calculation method: A case of tunneling electronic devices based on vertically-stacked 2D layered materials / KIM Yong-Hoon, KIM Han Seul, KIM Hu Sung(KAIST.)

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[D8-co] Computational Condensed-Matter Physics

2015년 4월 24일 금요일 11:00 – 12:45

장소: 108호

좌장: 김 한 철 숙명여대

D8.09 [11:00-11:26]

Moire bands theory of non-commensurable graphene and hexagonal boron nitride heterojunctions / JUNG Jeil(Department of Physics, University of Seoul, 130-743, Korea.)

D8.10* [11:26-11:39]

Negative Thermal Expansion Behavior of T-Carbon Material: Ab initio Study / CHOI Ho-Sik, KANG Seoung-Hun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Science, Kyung Hee University, Seoul, Korea.)

D8.11* [11:39-11:52]

Topological Quantum Phase Transitions Driven by Strains in Phosphorene Oxides / KANG Seoung-Hun, PARK jejeune, WOO Sungjong¹, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University. ¹Korea Institute for Advanced Study.)

D8.12 [11:52-12:05]

Computational design of silicon allotropes with direct band gaps / OH Young Jun, LEE In-Ho¹, LEE Jooyoung², KIM Sunghyun, CHANG Kee Joo(KAIST, Department of Physics. ¹KRISS. ²KIAS, Center for In Silicon Protein Science, School of Computational Science.)

D8.13* [12:05-12:18]

Ab initio Study of Acetylsalicylic Acid Adsorbed on Single-walled Carbon and Carbon Nitride Nanotubes / LEE Yongju, KANG Seoung-Hun, KIM Gunn¹, KWON Young-Kyun(Department of Physics and Research Institute for Basic Science, Kyung Hee University, Seoul, Korea. ¹Department of Physics, Graphene Research Institute, and Institute of Fundamental Physics, Sejong University, Seoul, Korea.)

D8.14* [12:18-12:31]

First-principles study on the structural and electronic properties of graphitic carbon nitride sheet and nanotubes / SONG hosin, KIM Min-gwan, KANG Seoung-Hun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University.)

D8.15* [12:31-12:44]

Implementation of a Conformational Space Annealing Algorithm in Computational Search for Functional Materials / KIM Sunghyun, LEE In-Ho¹, LEE Jooyoung², OH Young Jun, CHANG Kee Joo(Department of Physics, Korea Advanced Institute of Science and Technology, Daejeon 305-701, Republic of Korea. ¹Korea Research Institute of Standards and Science, Daejeon 304-340, Korea. ²Center for In Silico Protein Science, School of Computational Science, Korea Institute for Advanced Study, Seoul 130-722, Korea.)

[D9-co] Surface/Interface/Nano-material III

2015년 4월 24일 금요일 09:00 - 10:45

장소: 201호

좌장: 박 승 룡 인천대

D9.01 [09:00-09:15]

Electronic Structure of the Au/Si(111)-5x2 Surface: Density Functional Calculations / KANG Myung Ho, KWON Se Gab(포스텍 물리학과.)

D9.02* [09:15-09:30]

방사광을 이용한 희토류-텔루리움 RTe₃ (R=Pr, Er) 화합물의 각분해 광전자 분광 연구 / 이은숙, 김대현, 김현우, 민병훈¹, 권용성¹, J.D Denlinger², 강정수(가톨릭대학교, 물리학과. ¹대구경북과학기술원. ²Lawrence Berkeley National Laboratory.)

D9.03* [09:30-09:45]

First-principles study on the electronic properties of two-dimensional puckered antimony nanostructure / 이상훈, 지승훈(Department of Physics, POSTECH.)

D9.04* [09:45-10:00]

Asymmetric Core Level Photoemission Line Shape in Compound Metal Ag₅Pb₂O₆ / SINN Soobin, LEE Kyung Dong¹, WON Choong Jae¹, YOO Hyang Keun, OH Ji Seop, KUO Cheng-Tai, HAN Moonup², CHANG Young Jun², HUR Namjung³, PARK Byeong-Gyu⁴, KIM Hyeong-Do, NOH Tae Won(Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 151-747, Republic of Korea / Department of Physics and Astronomy, Seoul National University (SNU), Seoul 151-747, Republic of Korea. ¹Center for Correlated Electron Systems, Institute for Basic Science (IBS), Seoul 151-747, Republic of Korea / Department of Physics, Inha University, Incheon 402-751, Republic of Korea. ²Department of Physics, University of Seoul, Seoul 130-743,

Republic of Korea. ³Department of Physics, Inha University, Incheon 402-751, Republic of Korea. ⁴Pohang Accelerator Laboratory, Pohang University of Science and Technology, Pohang 790-784, Republic of Korea.)

D9.05* [10:00-10:15]

Anisotropic bias dependent transport property in vacancy defective phosphorene layer / M. UMAR Farooq, HONG Jisang (Department of Physics, Pukyong National University.)

D9.06* [10:15-10:30]

Electronic structure studies of hydrogen gas exposed MoS₂ by angle resolved photoemission spectroscopy / 박승룡, 조수현¹, 김범서¹, 김범영¹, 김병훈, 김창영¹(인천대학교, 물리학과. ¹연세대학교, 물리학과.)

D9.07* [10:30-10:45]

Spin-Dependent Transport and Optical properties of transparent Half-Metallic g-C4N3 Films / ARQUM Hashmi, M. UMAR Farooq, TAO Hu, HONG Jisang (Department of Physics, Pukyong National University.)

[D11-op] Optics

2015년 4월 24일 금요일 09:00 - 10:30

장소: 204호

좌장: 정영욱 KAERI

D11.01* [09:00-09:15]

Coherent Lattice Vibrations of Single-Layer and Multilayer Graphene / JEONG Tae-young, JUNG Su-Yong¹, YEE Ki-Ju (Department of Physics, Chungnam National University, Daejeon, 305-764. ¹Korea Research Institute of Standards and Science, Daejeon 305-340, Republic of Korea.)

D11.02* [09:15-09:30]

Resonant absorption of electromagnetic waves in inhomogeneous chiral media / 김슬옹, 김기홍(아주대학교 에너지시스템학과.)

D11.03 [09:30-09:45]

Phase dependent light switching in a triple-Λ system / 손병욱, 김봉준¹, 고도경², 강훈수¹(광주과학기술원, 물리광학과. ¹고등광기술연구소. ²광주과학기술원, 고등광기술연구소.)

D11.04 [09:45-10:00]

Experimental observation of moire patterns in cylindrical structures / Saveljev Vladimir (KIST, Hanyang University.)

D11.05* [10:00-10:15]

동적광산란 기반의 SPCS를 이용한 박막 표면 상태의 분석 / 지승우, 이재란, 강만일, 김석원(울산대학교, 물리학과 에너지 하비스트 스토리지 연구소.)

D11.06* [10:15-10:30]

Phase vs Amplitude Micromesh for Scalable Digital Spatial Light Modulator-Micromesh Heterostructures for Real Time Wave Optical Applications / 최재우, 정훈(경희대학교 정보디스플레이학과.)

[D11-op] Optics

2015년 4월 24일 금요일 11:00 - 12:30

장소: 204호

좌장: 이 광 걸 한양대

D11.07 [11:00-11:15]

새로운 구조의 타킷에서 에너지 폭이 좁은 레이저 가속 양성자빔 발생 메커니즘 연구 / 김경남, 이기태, 박성희, 김하나, 류우제², 정영욱, VINOKUROV Nikolay(한국원자력연구원, ¹충남대학교 물리학과, ²한남대학교 물리학과.)

D11.08* [11:15-11:30]

가속기 기반 초고속 펌프-프로브 장치의 전자빔 변수 최적화 / 김현우, 박선정¹, 배상윤¹, 문정호¹, 장규하, 이기태, 박성희, GUDKOV Boris¹, MIGINSKY Sergey, VINOKUROV Nikolay, 정영욱(과학기술연합대학원대학교, 가속기 및 핵융합물리공학 / 한국원자력연구원, 양자빔 기반 방사선 연구센터, ¹한국원자력연구원, 양자빔 기반 방사선 연구센터.)

D11.09* [11:30-11:45]

Ti:Sapphire 매질로 사용하는 레이저 펄스 증폭기에서 열로 인한 Post-pulse Tail의 형성 / 유태준, 조세례요한, 정지훈(한동대학교 첨단그린에너지환경학과.)

D11.10* [11:45-12:00]

처프 펄스 증폭 과정에서 펄스 레이저 펄스의 비선형 위상 왜곡 현상 연구 / 황승진, 정지훈, 유태준(한동대학교, 첨단그린에너지환경학과.)

D11.11* [12:00-12:15]

소형 고출력 테라헤르츠 자유전자레이저를 위한 주기가변 나선형 교번자장기 개발 / 문정호, 정영욱¹, VINOKUROV Nikolay¹, 이기태¹, 장규하, 박성희¹, 배상윤¹, 김현우¹, 박선정¹, MIGINSKY Sergey¹, 전민용²(충남대학교, 물리학과 / 한국원자력연구원, 양자빔 기반 방사선 연구센터, ¹한국원자력연구원, 양자빔 기반 방사선 연구센터, ²충남대학교, 물리학과.)

D11.12* [12:15-12:30]

Emission Dynamics of an Electron in a Quantum-Dot Pump under a High Magnetic Field / RYU Sungguen, KATAOKA Masaya¹, SIM Heungsun(Department of Physics, Korea Advanced Institute of Science and Technology, ¹National Physical Laboratory, United Kingdom.)

[D12-as] Gravity and Cosmic Ray

2015년 4월 24일 금요일 09:00 - 10:45

장소: 205호

좌장: 김 항 배 한양대

D12.01 [09:00-09:15]

Light interacting with gravitational waves and the principle of LIGO / 강궁원 (Kang, Gungwon)(KISTI 슈퍼컴퓨팅센터.)

D12.02 [09:15-09:30]

Primordial Gravitational Waves And Rescattered Electromagnetic Radiation In The Cosmic Microwave Background / 김동훈, TRIPPE Sascha¹(이화여자대학교, 기초과학연구소, ¹서울대학교, 천문학과.)

D12.03 [09:30-09:45]

Implications of PSR J0737-3039B for the Galactic NS-NS Binary Merger Rate / 김정리, MCLAUGHLIN Maura¹, PERERA Benetge Bhakthi Prana²(연세대학교 천문대, ¹West Virginia University, ²U. Manchester.)

D12.04 [09:45-10:00]

Comparison Between Gravitational Softening Models In Smoothed Particle Hydrodynamics / 김준하(한양대학교 물리학과 / MaribMir Lab..)

D12.05 [10:00-10:15]

Gravitational wave signals from supermassive star collapses / KIM Hee Il, LEE Hyung Mok(Seoul National Univ., Department of Physics and Astronomy.)

D12.06* [10:15-10:30]

Status of Ultra Fast Flash Observatory(UFFO)-pathfinder / 김민빈, 정수민¹, 이용훈, 송인웅, 박일홍, 이직(성균관대학교 물리학과, ¹성균관대학교 물리학과, IAA-CSIC.)

D12.07* [10:30-10:45]

Performance of Silicon Charge Detector of ISS-CREAM Experiment / 박희우, 박일홍, 이직, 전진아, 이해영(성균관대학교, 물리학과.)

[D12-as] Astrophysics

2015년 4월 24일 금요일 11:00 - 12:30

장소: 205호

좌장: 이 창 환 부산대

D12.08 [11:00-11:15]

Latest Results from IceCube / ROTT Carsten(Sungkyunkwan University, Physics Department.)

D12,09 [11:15-11:30]

Directional dark matter by polar angle direct detection and application of columnar recombination / LI JIN(기초과학연구원.)

D12,10 [11:30-11:45]

Earth Rotation and Tide: Report of Recent Advances / NA Sung-Ho(Ajou university/UST.)

D12,11* [11:45-12:00]

Energy calibration for the fluorescence detector in Telescope Array experiment with Electron Light Source / SHIN B. K., CHEON B. G., KIM H. B., SHIBATA T.¹, FUKUSHIMA M.², SAGAWA H.²(Hanyang University, Dept of Physics. ¹KEK. ²ICRR.)

D12,12* [12:00-12:15]

Simulation Results of Top and Bottom Counting Detectors for ISS-CREAM experiment / PARK J.M., KIM H.J., PARK H., HWANG Y.S., JEON H.B., HYUN H.J.¹, ANGELASZEK D.², COPLEY M.², HAN J.H.², HUH H.G.², KIM K.C.², LEE M.H.³, LUTZ L.², OFOHA O.², PATTERSON P.², SEO E.S.², WU J.², YOON Y.S.³(Kyungpook National Univ. ¹Kyungpook National Univ./Pohang Accelerator Laboratory. ²University of Maryland. ³University of Maryland/Institute for Basic Science.)

D12,13* [12:15-12:30]

Mass and Radius Constraint on Neutron Stars in Low-Mass X-ray Binaries (LMXBs) / 김명국, 김영민, 이창환, 박규진¹(부산대학교, 물리학과, ¹울산과학기술대학교, 물리학과.)

[D13-pl] 가속기 응용 및 빔 이용

2015년 4월 24일 금요일 09:30 - 10:45

장소: 206호

좌장: 유 신 재 충남대

D13,01* [09:30-09:45]

Development of a low-Q cavity-type beam position monitoring system /JANG Siwon, KIM Eun-San, TOSHIAKI Tauchi¹, NOBUHIRO Terunuma¹, YOUSKE Honda¹, PHILIP Bambade²(KNU. ¹KEK. ²LAL.)

D13,02 [09:45-10:00]

Current Status of HXPP Beamline Construction Project in PAL-XFEL / KIM SUNAM, KIM KYUNGSOOK, NAM KI HYUN, KANG TAI-HEE, KWON SOONNAM, KIM SANGSOO, RAH SEUNGYU, PARK JAEHYUN, SHIN HOCHOEOL, EOM INTAE, KIM SEUNG-NAM, KIM BONGSOO, KO IN SOO, CHO MOOHYUN(Pohang Accelerator Laboratory.)

D13.03 [10:00-10:15]

중이온빔 활용을 위한 DIAC 구축 및 활용계획 / 오병훈, 장대식, 진정태, 장도윤(한국원자력연구원, 핵융합공학기술개발부.)

D13.04 [10:15-10:30]

Study of Beam Delivery Design in Carbon Ion Therapy / CHO Ilsung, YOO SeungHoon, CHO Sungho, KIM Eun Ho, SONG Yongkeun, JUNG Won-Gyun(Korea Institute of Radiological and Medical Sciences.)

D13.05 [10:30-10:45]

Commissioning & operation summary of a C-band electron linear accelerator at DIRAMS / YI Jungyu, LEE Manwoo, LIM Heuijin, JEONG Dong Hyeok, LEE Mujin, KIM Sung-woo, GWANGMO Yang, YI Jungyu¹(DIRAMS(Dongnam Institute of Radiological and Medical Science).
¹Pusan National University.)

[D13-pa] Experimental, non-accelerator-based

2015년 4월 24일 금요일 11:00 – 13:00

장소: 206호

좌장: 주 경 광 전남대

D13.06 [11:00-11:13]

Detector Construction for Reactor Short-BaseLine Neutrino Experiment / OH Yoomin, KIM Hongjoo¹, LEE Jooyoung¹, SEO Kyungmin², JOO Kyungkwang³, SO Sun-heang³, SONG Sook Hyung³, YEO In Sung³, KIM Ba Ro³, KIM Seoung Chan³, KIM Hyunsoo⁴, KIM Jinyu⁴, MA Kyungju⁴, JEON Eun-ju, KIM Yeongduk, LEE Jeong-yeon, PARK Kang-soon, PARK Hyangkyu, LEE MooHyun, SUN Gwang-Min⁵, HAN Boyoung⁵, PARK Hyunseo⁶, KIM Siyeon⁷, KO Youngju⁷(Institute for Basic Science. ¹Kyungpook National University. ²Chonbuk National University. ³Chonnam National University. ⁴Sejong University. ⁵Korea Atomic Energy Research Institute. ⁶Korea Research Institute of Standards and Science. ⁷Chung-Ang University.)

D13.07 [11:13-11:26]

Sensitivity study of RENO-50 / 서현관, 김상용, 김수봉, 박정식, 서선희, 이동하, 최선호, 최원국, 김우영¹, 선용근¹, 박인곤², 박명렬³, 최준호³, 장한일⁴, 양장희⁵, 유인태⁵, 최영일⁵, 김영덕⁶, 전은주⁶, 김현수⁷, 김바로⁸, 김승찬⁸, 김재률⁸, 박령균⁸, 소선행⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김시연⁹, 고영주⁹(서울대. ¹경북대. ²경상대. ³동신대. ⁴서영대. ⁵성균관대. ⁶BS/세종대. ⁷세종대. ⁸전남대. ⁹중앙대.)

D13.08 [11:26-11:39]

Sensitivity to the determination of neutrino mass hierarchy using reactor neutrinos / PAC Myoung Youl, CHOI June Ho(Dongshin University.)

D13.09 [11:39-11:52]

New Results from RENO / 서선희, 김우영¹, 선용근¹, 박인곤², 장지승³, 박명

렬⁴, 최준호⁴, 장한일⁴, 김상용, 김수봉, 박정식, 서현관, 이동하, 최선호, 최원국, 양장희⁵, 유인태⁵, 최영일⁵, 김영덕⁶, 전은주⁷, 김현수⁷, 김승찬⁸, 김바로⁸, 김재률⁸, 박령균⁸, 소선행⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김시연⁸, 고영주⁸(서울대학교, 물리학과. ¹경북대학교, 물리학과. ²경상대학교, ³광주과학기술원, ⁴동신대학교, ⁵성균관대학교, 물리학과. ⁶BS, ⁷세종대학교, ⁸전남대학교, 물리학과.)

D13.10* [11:52-12:05]

Preliminary Results from the KIMS-Nal Experiment / 김경원(서울대학교 물리천문학부, CUP (KIMS Collaboration).)

D13.11* [12:05-12:18]

RENO energy calibration for precise reactor neutrino spectra / 김상용, 김우영¹, 선용근¹, 박인곤², 장지승³, 장한일⁴, 김수봉, 박정식, 서선희, 서현관, 이동하, 최선호, 최원국, 양장희⁵, 유인태⁵, 최영일⁵, 김영덕⁶, 전은주⁷, 김현수⁷, 김바로⁸, 김승찬⁸, 김재률⁸, 박령균⁸, 소선행⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김시연⁹, 고영주⁹, 박명렬¹⁰, 최준호¹⁰(서울대학교, 물리학과. ¹경북대학교, 물리학과. ²경상대학교, ³광주과학기술원, ⁴서영대학교, ⁵성균관대학교, 물리학과. ⁶BS, ⁷세종대학교, 물리학과. ⁸전남대학교, 물리학과. ⁹중앙대학교, 물리학과. ¹⁰동신대학교.)

D13.12* [12:18-12:31]

Measurement of energy dependent reactor neutrino disappearance / 김우영, 선용근, 박인곤¹, 장지승², 박명렬³, 최준호³, 장한일⁴, 김상용⁵, 김수봉⁵, 박정식⁵, 서선희⁵, 소현관⁵, 이동하⁵, 최선호⁵, 최원국⁵, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김바로⁸, 김승찬⁸, 김재률⁸, 박령균⁸, 소선행⁸, 신창동⁸, 여인성⁸, 임인택⁸, 주경광⁸, 김현수⁹, 김시연¹⁰, 고영주¹⁰(경북대학교, 물리학과. ¹경상대학교, 물리학과. ²광주과학기술원, 물리학과. ³동신대학교, 물리학과. ⁴서영대학교, 물리학과. ⁵서울대학교, 물리학과. ⁶성균관대학교, 물리학과. ⁷BS/세종대학교, 물리학과. ⁸전남대학교, 물리학과. ⁹세종대학교, 물리학과. ¹⁰중앙대학교, 물리학과.)

D13.13* [12:31-12:44]

Search for sterile neutrinos at RENO / 여인성, 김바로, 김승찬, 김재률, 박령균, 소선행, 신창동, 임인택, 주경광, 김현수¹, 김우영², 선용근², 박인곤³, 박명렬⁴, 최준호⁴, 장한일⁵, 김상용⁶, 김수봉⁶, 박정식⁶, 서선희⁶, 서현관⁶, 이동하⁶, 최선호⁶, 최원국⁶, 양장희⁷, 유인태⁷, 최영일⁷, 김시연⁸, 고영주⁸, 김영덕⁹, 전은주⁹, 장지승¹⁰(전남대, 물리학과. ¹전북대, 물리학과. ²경북대, 물리학과. ³경상대, 물리학과. ⁴동신대, 물리학과. ⁵서영대, 물리학과. ⁶서울대, 물리학과. ⁷성균관대, 물리학과. ⁸중앙대, 물리학과. ⁹세종대, BS, ¹⁰광주과학기술원.)

D13.14* [12:44-12:57]

Measurement of theta13 with neutron capture on hydroge / 신창동, 김바로, 김승찬, 김재률, 박령균, 소선행, 여인성, 임인택, 주경광, 김우영¹, 선용근¹, 박인곤², 장지승³, 박명렬⁴, 최준호⁴, 장한일⁵, 김상용⁶, 김수봉⁶, 박정식⁶, 서선희⁶, 서현관⁶, 이동하⁶, 최선호⁶, 최원국⁶, 양장희⁷, 유인태⁷, 최영일⁷, 김영덕⁸, 전은주⁸, 김현수⁹, 김시연¹⁰, 고영주¹⁰(전남대. ¹경북대. ²경상대. ³광주과학기술원. ⁴동신대. ⁵서영대. ⁶서울대. ⁷성균관대. ⁸BS/세종대. ⁹세종대. ¹⁰중앙대.)

E [D14-pa] Pioneer: Collider Physics I

2015년 4월 24일 금요일 09:00 – 10:45

장소: 209호

좌장: 천 병 구 한양대

D14.01 [09:00-09:26]

Overview of recent ATLAS results and preparation of Run-2 /

YAMAZAKI Yuji(Kobe University.)

D14.02 [09:26-09:52]

The CMS Experiment: Physics at the Highest Energies / CHOI

Suyong(Korea University, Physics Department.)

D14.03 [09:52-10:18]

Footprints of Supersymmetry on Higgs Decay / ENDO Motoi

(University of Tokyo.)

D14.04 [10:18-10:44]

Searching for signatures of extra dimensions at the LHC / CHO Gi-

Chol(Ochanomizu University, Dept of Physics.)

E [D14-pa] Pioneer: Collider Physics II

2015년 4월 24일 금요일 11:00 – 12:45

장소: 209호

좌장: 고 병 원 고등과학원

D14.05 [11:00-11:26]

The Belle II / SuperKEKB experiment: Prospect and Status / KIM

Doris Yangsoo(숭실대학교.)

D14.06 [11:26-11:52]

Quarkonium Phenomenology / LEE Jungil(Korea University.)

D14.07 [11:52-12:18]

Physics and Status of the ILC / ISHIKAWA Akimasa(Tohoku University.)

D14.08 [12:18-12:44]

Prospect for Future Colliders / LEE Seung Joon(KAIST.)

The Korean Physical Society

포스터발표논문 시간표

2015년 4월 22일 수요일 12:30 - 14:15

장소 : 포스터발표장

P1-nu.001

Photo-transferred Thermoluminescence On Calcite / HONG Dukgeun, KIM Donghwi, LEE Jiyeon(Department of Physics, Kangwon National University.)

P1-nu.002

Performance Tests Of An Automated Small X-ray Irradiator For Luminescence Dosimetry / HONG Dukgeun, KIM Myungjin¹(Department of Physics, Kangwon National University. ¹Radiation Technology Institute, Neosiskorea Co. Ltd..)

P1-nu.003

R-matrix Analysis For The $^{14}\text{O}(\alpha, p)^{17}\text{F}$ Reaction At $E_{\text{c.m.}}=2.1\sim 3.1$ MeV / KIM A., LEE N. H.¹, HAN M. H.², YOO J. S.², HAHN K. I.², YAMAGUCHI H.³, BINH D. N.³, HAYAKAWA S.³, KAHL Daid³, KAWABATA T.³, KURIHARA Y.³, WAKABAYASHI Y.³, HASHIMOTO T.³, KUBONO S.⁴, CHOI S.⁵, KWON Y. K.⁶, MOON J. Y.⁶, TERANISHI T.⁷, KATO S.⁸, KOMATSUBARA T.⁹, GUO B.¹⁰, LIU W. P.¹⁰, WANG B.¹⁰, WANG Y.¹⁰, JUNG H. S.¹¹, LEE C. S.¹¹(Sung Kyun Kwan University, Dept. of Physics. ¹Ewha Womans University, Dept. of Physics. ²Ewha Womans University, Dept. of Science Education. ³University of Tokyo, Center for Nuclear Study. ⁴RIKEN Nishina Center. ⁵Seoul National University, Dept. of Physics. ⁶RISP, Institute of Basic Science. ⁷Kyushu University, Dept. of Physics. ⁸Yamagata University, Dept. of Physics. ⁹Tsukuba University, Dept. of Physics. ¹⁰China Institute of Atomic Energy. ¹¹Chung Ang University, Dept. of Physics.)

P1-nu.004

The measurement of interaction depths for interaction positions of gamma rays using risetime in a room-temperature CZT semiconductor detector / LEE Il Maek, LEE Pil Soo, LEE Jong Hun, JANG Taek Jin, CHO Hwa Youn, LEE Chun Sik(Chung-ang university.)

P1-nu.005

산란 각도에 따른 컴프턴 산란 확률 이론을 시간동시성 측정을 통하여 실험적으로 검증 / 장택진, 이춘식, 조화연, 이필수, 이종훈, 이일맥(중앙대학교 물리학과.)

P1-nu.006*

Constraining the spins of energy levels in ^{21}Na nucleus through the $^{24}\text{Mg}(p, \alpha)^{21}\text{Na}$ reaction / CHA SooMi, CHAE K.Y, AHN S.H¹, BARDAYAN D.W², CHIPPS K.A.³, CIZEWSKI J.A.⁴, HOWARD M.E⁴, KIM A,

KOZUB R.L.⁵, KWAG M.S., LEE E.J, MANNING B⁴, MATOS M⁶, O'MALLEY P.D.⁴, PAIN S.D², PETERS W.A⁷, PITTMAN S.T.², RATKIEWICZ A⁴, SMITH M.S.², STRAUSS S.⁴(Sungkyunkwan Univ. ¹Univ. of Tennessee, Knoxville. ²Oak Ridge National Laboratory. ³Colorado School on Mines. ⁴Rutgers Univ. ⁵Tennessee Technological Univ. ⁶Louisiana State Univ. ⁷Oak Ridge Associated Univ.)

P1-nu.007

PWR과 PHWR의 Maxwellian distribution 과의 상관관계 / 정진, 박지환
(조선대학교.)

P1-nu.008

Spectroscopic Characterization of a CZT Absorber Detector for Compton Camera Based on Digital Signal Processing / LEE Jonghun, LEE Pilsoo, LEE Ilmeak, JANG Taxjin, CHO Hwa-youn¹, LEE Chunsik(Chung-Ang Univ. Department of physics. ¹Chung-Ang Univ. Institute of Innovative Functional Imaging.)

P1-nu.009*

Performance test of fast ionization chamber for KOBRA recoil spectrometer / KWAG MINSIK, CHAE KYUNGYUK, CHA SOOMI, KIM ARAM, KIM MINJU, LEE EUNJI, LEE JAEHA(Department of Physics, Sungkyunkwan University.)

P1-nu.010

Large size CaMoO₄ crystal growth at the Center for Underground Physics / RA se jin, KHAN Arshad, KIM Y.D., KIM H.J.¹(Center for Underground Physics, Institute for Basic Science. ¹Department of Physics, Kyungpook National University.)

P1-nu.011

토카막 플라즈마의 외곽 벗겨낸 층에서 전기탐침을 이용한 플라즈마 변수 시분해 측정 / 정진욱, 박일서, 홍석호¹, 김동환², 김유신, 남용운¹, 이규동¹(한양대학교, 전기공학과. ¹국가핵융합연구소. ²한양대학교, 나노반도체공학과.)

P1-nu.012*

Measurement wirings and concerns for AMoRE-pilot and AMoRE-10 / KIM Y.H, KIM H.L¹, COLLABORATION AMoRE(Institute for Basic Science. ¹경북대 물리학과, Institute for Basic Science.)

P1-nu.013

가속기 질량분석법(AMS)을 활용한 나이트의 탄소동위원소 분석 및 기후변화 상관관계 연구 / 이장훈, 김치환, 강진, 송수진, 윤명호, 김종찬¹(서울대학교 기초과학공동기원. ¹서울대학교 물리천문학부.)

P1-nu.014

Study on Performance Optimization of a B₄C Neutron Detector

for Beam Profile Measurements / 이수현, 임창휘, 문명국, 김종열(한국원자력연구원.)

P1-nu.015*

Measurement of Relative Proton Induced Cross-Sections of $^{208}\text{Pb}(p,x)\text{Pb}$ and $^{208}\text{Pb}(p,x)\text{Hg}$, Reactions by Using 100 MeV Proton Accelerator of KOMAC / LEE Jieun, YOON Jungran, RO Taeik, LEE Samyol¹(Dong-A University, Department of Physics.. ¹Dongseo University, Department of Radiological Science..)

P1-nu.016

Determination of NIST sediment standard by photon activation analysis / KIM Hyo Jin, RO Tae-Ik¹, NOH Sung Jin², KIM Hyun², JEONG Dong-Hyeok², LEE ManWoo², KIM Jeung-Kee², KIM Guinyun³, KANG Yeong-Rok²(Department of Physics, Dong-A University, Research center, Dongnam Inst. of Radiological & Medical Sciences. ¹Department of Physics, Dong-A University. ²Research center, Dongnam Inst. of Radiological & Medical Sciences. ³Department of Physics, Kyungpook Nat. Univ.)

P1-nu.017

DAQ system for LAMPS(Large Acceptance Multi-Purpose Spectrometer) at RAON / KIM Youngjin, KIM Yonghak, KIM Young Jin, LEE Hyosang, SHIN Taeksu(Institute for Basic Science.)

P1-nu.018*

Measurement of Delayed Gamma Ray Energy Spectrum and Cross Section from Residual Nuclide for $^{184}\text{W}(p,x)$ Reaction by 100 MeV Proton Accelerator and HPGe Detector System / LEE Dongyun, SHIN Jeong Hee, LEE Sang Hun, LEE Samyol, LEE Jieun¹, YOON Jungran¹, RO Taeik¹(Dongseo University, Department of Radiological Science. ¹Dong-A University, Department of Physics.)

P1-nu.019

Development of Time Projection Chamber for LAMPS at RAON / 이효상, 신태수, 김영진, 김영진, 김용학(기초과학연구원.)

P1-nu.020

Internal Radioactive Background Study of Calcium Molybdate Crystals / KIM H.J., LEE J.Y.(Kyungpook National University, Department of Physics.)

P1-nu.021*

Optimization Of A Fast Ionization Chamber Using GARFIELD++ And GEANT4 / KIM D.H., CHAE K.Y.¹, KIM A.R.¹, KWON Y.K.², LEE K.B.², MOON J.Y.², HAN S.Y., KIM G.W., PARK S.Y., CHA S.M.¹, KWAG M.S.¹, LEE E.J.¹, HASHIMOTO T.², JUNG I.I.², KIM Y.H.², PARK J.S.², CHAE H.W.², HAHN

K.I.(Ewha womans University, Department of Physics. ¹Sungkyunkwan University, Department of Physics. ²Institute for Basic Science, Department of Low Energy.)

P1-nu.022*

Simulation of Gamma Background for AMoRE-10 / HA daehoon, For the AMoRE Collaboration¹(경북대학교, ¹AMoRE.)

P1-nu.023

Dosimetry technique using optical stimulation luminescence dosimeters (OSLD) / HWANG Jinho, NOH Sung jin¹, KIM hyun¹, KIM Hyo Jin¹, LEE Manwoo¹, JEONG Dong-Hyeok¹, YANG Kwangmo¹, RO Tae-Ik², KANG Yeong-Rok¹(Research center, Dongnam Inst. Of Radiological and Medical Science/Department of Materials Physics, Dong-A University. ¹Research center, Dongnam Inst. Of Radiological and Medical Science. ²Department of Materials Physics, Dong-A University.)

P1-nu.024*

AMoRE-pilot cryostat and refrigerator / 최준호(서울대학교 물리천문학부.)

P1-nu.025*

CdWO₄와 결합된 광 센서의 성능 테스트 / 김보배, 강국현, 김태훈, 김홍주, 문명국¹, 박환배, 이승철, 전해빈(경북대학교 물리학과, ¹한국원자력연구원 중성자 과학연구부.)

P1-nu.026

Purification of Calcium Carbonate (CaCO₃) for Neutrinoless Double Beta Decay Experiment / BIBI Ruqia, H.K Park¹, H.J Kim²(경북대학교, IBS. ¹IBS, ²경북대학교.)

P1-nu.027*

APVDAQ 시스템을 이용한 스트립 센서 성능 실험 / 김태훈, 강국현, 김보배, 박환배, 우오즈미사토루, 이승철, 전해빈(경북대학교.)

P1-nu.028*

실리콘 스트립 검출기 시뮬레이션(Simulation of a Silicon-Strip Detector) / 권지연, 이수민, 김유한(인하대학교 물리학과.)

P1-nu.029

Metallic magnetic calorimeters for AMoRE-pilot / 김소라(기초과학연구원.)

P1-nu.030

Thermal neutron capture cross section and resonance integral of ¹⁵²Sm(n,g)¹⁵³Sm reaction with pulsed neutrons / HIEN Nguyen

Thi, KIM Kwagnsoo, SHAHID Muhammad, ZAMAN Muhammah, NADEEM Muhammad, KIM Guinyun, KHUE Pham Duc¹, THANH Kim Tien¹, VAN DO Nguyen¹(Department of Physics, Kyungpook National University. ¹Institute of Physics, Vietnam Academy of Science and Technology.)

P1-nu.031*

Multi-layer Scintillation Detector for Cosmic-ray Measurement (COSMUS) / 정우승, 김준이, 박재범, 안정근, 홍병식, 이경세, 이종원(고려대학교, 물리학과.)

P1-nu.032

Preliminary vacuum test for superconducting cavity with liquid nitrogen / KIM Heetae, CHOI Suk, KIM Jae Hong, PARK Gun-Tae, KIM Young Kwon, JOUNG Mijoung, CHA Hyuk Jin, KIM Wookang, KIM Hyung Jin(Rare Isotope Science Project, Institute for Basic Science.)

P1-nu.033

Sn (Tin) Purification for Neutrinoless Double Beta decay Experiment / J.K Son, H.K Park¹, H.J Kim(경북대학교. ¹IBS.)

P1-nu.034

Higher Field NMR Set-up for Polarized ¹²⁹Xe with Spin-Exchange Optical Pumping / TAN Joshua Artem, SEON Yonggeun, KIM Wooyoung, KAVTANYUK Vladimir, GLADKOV Aleksey, PARK Seongwoo, SO Jieun(Department of Physics, Kyungpook National University, Daegu 702-701, Republic of Korea.)

P1-nu.035

Environmental background simulation for AMoRE-10 / LUQMAN Ali, E.J Jeon¹, Y.S Yoon¹, H.J Kim²(Kyungpook National Univ. AMoRE collaboration. ¹IBS. ²Kyungpook National University.)

P1-nu.036*

Bethe-Heitler formula 이용한 전자 쌍생성 산란단면적 및 전자의 분포 Simulation / BANG HYESUN(인하대학교 물리학과.)

P1-nu.037

바이오메디컬 활용을 위한 컴프턴 카메라 성능 예측 시뮬레이션 연구 / 조화연, 이춘식(중앙대학교 신기능이미징연구소. ¹중앙대학교 물리학과.)

P1-nu.038

Measurements of (n,xn) cross sections for fast neutrons by using KIRAMS MC-50 cyclotron / KIM Do Yoon, BAK Sang In¹, HAM Chul Min¹, MIN Kyung Joo¹, IN Eun Jin¹, SHIN Jae Won, PARK Tae-Sun, BHORASKAR V. N.², HONG Seung-Woo(Department of Physics, Sungkyunkwan University, Suwon

440-746, Republic of Korea. ¹Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Republic of Korea. ²Department of Applied Physics, S. P. Pune University, Pune -411025, India.)

P1-nu.039

Internal background simulation on a low background CaMoO₄ crystal / JO Hyon-Suk(Institute for Basic Science, Center for Underground Physics.)

P1-nu.040

Prompt Psi(2S) Measurement in pp and PbPb Collisions at sqrt(s_NN) = 2.76 TeV / 오건희, 문동호(전남대학교.)

2015년 4월 22일 수요일 12:30 - 14:15

장소 : 포스터발표장

P1-pa.001

A Study on Evolving Architecture for the Beyond Standard Model

/ CHO Kihyeon, KIM Jangho, KIM Junghyun(KISTI.)

P1-pa.002

Longitudinal polarization measurement of (anti-) Lambda particle in pp collision at 7 TeV / KIM Jinsook, BAEK Yongwook¹, HRISTOV Peter², JUNG Hyungtaik, KIM Dowon³, KIM Mimae, WILLIAMS Themistoklis²(Gangneung-Wonju Nat. Univ. Department of Physics. ¹Konkuk Univ. Department of Physics. ²CERN, Switzerland. ³KISTI, Daejeon.)

P1-pa.003

Report on Distributed Computing and Data Handling at Belle II Experiment / 김정현 정현, 조기현(KISTI.)

P1-pa.004

Dalitz Plot Study of B+ to $\pi^+\pi^0\pi^0$ at Belle / KIM Kyungho, KWON Youngjoon(Yonsei University.)

P1-pa.005

경북대 CMS Tier2 센터의 운영 현황 및 통합관리시스템 구축 / 한대희, 송지환, 김귀년, 손동철(경북대학교, 고에너지물리연구소.)

P1-pa.006*

Z Cross Section Measurement in the Electron Channel in pp Collisions at $\sqrt{s} = 8$ TeV / 남경욱, 유휘동, 이경필(서울대학교 물리학과.)

P1-pa.007*

Z Cross Section Measurement in the Muon Channel in pp Collisions at $\sqrt{s} = 8$ TeV / LEE Kyeongpil, NAM Kyungwook, YOO Hwidong(Seoul National University.)

P1-pa.008*

Study of wrapping procedure for SVD assembly in Belle II detector / JEON Hyein, KANG Kookhyun, KIM Bobae, KIM Hongjoo, PARK Hwanbae, UOZUMI Satoru, HARA Koji¹, HIGUCHI Takeo², HORIGUCHI Tomohiro³, MORII Tomoko², NAKAMURA Katsuro¹, ONUKI Yoshiyuki⁴, SASAKI Junya⁴, SATO Nobuhiko¹, SEINO Yoshiaki⁵, SHIMIZU Nobuhiro⁴, TSUBOYAMA Toru¹, YOSHINOBU Toshiki⁴(Kyungpook National University. ¹High energy accelerator research organization (KEK). ²Kavli Institute for the Physics

and Mathematics of the Universe. ³Tohoku University. ⁴The University of Tokyo.
⁵Niigata University.)

P1-pa.009*

MC Study of Z Boson Transverse Momentum Distribution at 13 TeV / PARK SangIl, LEE SangEun, BUTANOV Khakimjan, YUSUPOV Hammid, SON DongChul, KIM GuiNyon(Physics department, Kyungpook National University.)

P1-pa.010*

MC Study of W Boson Transverse Momentum Distribution at 13 TeV / YUSUPOV Hammid, LEE SangEun, BUTANOV Khakimjan, PARK SangIl, SON DongChul, KIM GuiNyun(Physics department, Kyungpook National University.)

P1-pa.011*

MC Study of MET for HWW Analysis at 13 TeV / BUTANOV Khakimjan, LEE SangEun, YUSUPOV Hammid, PARK SangIl, SON DongChul, KIM GuiNyun(Physics department, Kyungpook National University.)

P1-pa.012*

U-238 + p Collision Simulation on Geant4 / LEE Chanyoung, KIM Kyungho, CHO Kihyeon¹, KWON Youngjoon(Yonsei Univ. ¹KISTI.)

P1-pa.013*

Study of the Calorimeter Trigger Monitoring at Belle II experiment / KIM S. H., UNNO Y., LEE I. S., GOH Y. M., CHEON B. G.(Hanyang University, Dept of Physics.)

P1-pa.014*

Study of the Calorimeter Trigger Simulation at Belle II experiment / LEE I. S., UNNO Y., KIM S. H., GOH Y. M., CHEON B. G.(Hanyang University, Dept of Physics.)

P1-pa.015*

DFD lattice를 Ring 형태로 배열한 Beam line을 통과하는 빔 궤도 연구 / 이상훈, 김유석, 김재홍(동국대학교, ¹기초과학연구원.)

P1-pa.016*

Study of top quark mass measurement using J/psi inside jets at LHC / RYU Geonmo, PARK Inkyu, KIM Ji hyun, RYU Min Sang, LEE Jason, CHOI Minkyoo, KIM Hyunyong, JEON Dajeong, KIM Byoungjun(University of Seoul.)

P1-pa,017*

Dark matter search with leptonic decay of top quark in pp collisions / 정남균, 김동희, 김민석, 오영도(경북대학교)

P1-pa,018*

High Level Trigger for CMS upgrade / JEON Dajeong, PARK Inkyu, KIM Ji Hyun, LEE Jason, RYU Min Sang¹, CHOI Minkyoo, KIM Hyunyoung, RYU Geonmo, KIM Byungjun(University of Seoul. ¹Chonbuk National University.)

P1-pa,019*

Higgs to dimuon at upgrade CMS detector / KIM Byoungjun, PARK Inkyu, RYU Min Sang¹, LEE Jason, KIM Ji Hyun, RYU Geonmo, CHOI Minkyoo, KIM Hyunyoung, JEON Dajeong(University of Seoul. ¹Chonbuk National University.)

P1-pa,0020*

사극자석을 이용한 전자빔 에미턴스 측정장치 개발 및 오차분석 / 배상윤, 문정호, 김현우¹, 박선정², 장규하³, 박성희³, 이기태³, 전민용⁴, 정영욱³, Nikolay Vinokurov⁵(한국원자력연구원, 충남대학교, 물리학과, ¹한국원자력연구원, UST, ²한국원자력연구원, 경북대학교, 물리학과, ³한국원자력연구원, ⁴충남대학교, ⁵한국원자력연구원, budker institute of nuclear physics.)

P1-pa,021*

Searches for heavy Majorana neutrinos in tri-lepton channel at the CMS / 김재성, 박재균, 오성빈, 유금봉, 이한얼, 서선희, 양운기, ALMOND John(서울대학교.)

P1-pa,022*

Search for light charged Higgs in top quark decays at pp collisions with $\sqrt{s} = 8\text{TeV}$ in CMS experiment / 좌연재, 유금봉, 양운기, ALMOND John, 김도현(서울대학교.)

P1-pa,023*

Search for Heavy Neutrinos in the Same-sign Electron-muon Lepton Pair Events from pp collisions at $\sqrt{s} = 8\text{TeV}$ Using the CMS Detector / 이한얼, 김재성, 박재균, 서선희, 오성빈, 유금봉, 양운기, ALMOND John(서울대학교.)

P1-pa,024

Monitoring Radon concentration in the RENO air / 최준호, 박명렬, 김우영¹, 선용근¹, 박인곤², 장지승³, 장한일⁴, 김상용⁵, 김수봉⁵, 박정식⁵, 서선희⁵, 이동하⁵, 최선호⁵, 최원국⁵, 양장희⁶, 유인태⁶, 최영일⁶, 김영덕⁷, 전은주⁷, 김현수⁸, 김바로⁹, 김승찬⁹, 김재률⁹, 박령균⁹, 소선행⁹, 신창동⁹, 여인성⁹, 임인택⁹, 주경광⁹, 김시연¹⁰, 고영주¹⁰, 서현관⁵(동신대학교, ¹경북대학교, ²경상대학교, ³광주과학기술원, ⁴서영대학교, ⁵서울대학교, ⁶성균관대학교, ⁷IBS/세종대학교, ⁸세종대학교, ⁹전남대학교, ¹⁰중앙대학교.)

P1-pa.025*

Low-energy K-40 Backgrounds in NaI(Tl) Crystals for the KIMS-NaI Experiment / ADHIKARI Pushpa raj(Sejong University, Department of Physics.)

P1-pa.026*

Alpha Rate Measurement of KIMS-NaI Experiments / ADHIKARI Govinda(Sejong University, Department of Physics.)

P1-pa.027*

SBL Main Detector Construction / KIM Jinyu, KIM Hongjoo¹, LEE Jooyoung¹, SEO Kyungmin², YEO Kangmo², JOO Kyungkwang³, YEO In Sung³, KIM Ba Ro³, KIM Seong Chan³, KIM Hyunsoo, MA Kyungju, KIM Yeongduk⁴, JEON Eun-ju⁴, KHAN Nasir⁴, LEE Jaison⁴, LEE Jeong-yeon⁴, PARK Kang-soon⁴, PARK Hyangkyu⁴, SUN Gwang-min⁵, HAN Boyoung⁵, PARK Hyunseo⁶, KIM Siyeon⁷, KO Youngju⁷(Sejong University. ¹Kyungpook National University. ²Chonbuk National University. ³Chonnam National University. ⁴Institute of Basic Science. ⁵Korea Atomic Energy Research Institute. ⁶Korea Research Institute of Standards and Science. ⁷Chung-Ang University.)

P1-pa.028*

Background Understanding of NaI(Tl) Crystal for WIMP Dark Matter Search / OH Seung-Yoon(Sejong University, Dept. of Physics.)

P1-pa.029*

Phonon simulations for AMoRE and KIMS / 김인욱(Department of Physics and Astronomy, Seoul National University.)

P1-pa.030*

Alpha particle measurements using a ZnS(Ag) Phosphor / ADHIKARI Pushparaj(Sejong University, Dept. of Physics.)

P1-pa.031*

Mass Production of Gd-LS for SBL Experiment / 김바로, 주경광, 김승찬, 여인성, 김홍주¹, 이주영¹, 서경민², 여강모², 김현수³, 김진유³, 마경주³, 전은주⁴, 김영덕⁴, 이재승⁴, 이정연⁴, 박강순⁴, 박향규⁴, 선광민⁵, 한보영⁵, 박현서⁶, 김시연⁷, 고영주⁷(전남대학교. ¹경북대학교. ²전북대학교. ³세종대학교. ⁴기초과학연구원. ⁵한국원자력연구원. ⁶한국표준연구원. ⁷중앙대학교.)

P1-pa.032*

Prototype Liquid Scintillator Veto System for KIMS-NaI Experiment / OH Seung-Yoon(Sejong University, Dept. of Physics.)

P1-pa.033*

A Pulse Shape Discrimination Method in High Energy Physics/ LIU DONG, KO Jewou, WOO Jong-Kwan, LEE Se Byeong¹(Jeju National University, Department of Physics. ¹Proton Therapy Center, National Cancer Center.)

P1-pa.034*

Segmented type cylindrical detector with PSD analysis/ SEO kyungmin, KIM hongjoo¹, LEE jooyoung¹, JOO kyungkwang², SO sunheang², SONG sookhyung², YEO insung², KIM baro², KIM seongchan², KIM hyunsoo³, KIM jinyu³, MA kyungju³, JEON eunju⁴, KIM yeongduk⁴, LEE jaison⁴, LEE jeongyeon⁴, PARK kangsoo⁴, PARK hyangkyu⁴, SUN gwangmin⁵, HAN boyoung⁵, PARK hyunseo⁶, KIM siyeon⁷, KO youngju⁷, YEO kangmo(jeonbuk national university. ¹kyungpook national university. ²Chonnam National University. ³Sejong University. ⁴Institute of Basic Science. ⁵Korea Atomic Energy Research Institute. ⁶Korea Research Institute of Standards and Science. ⁷Chung-Ang University.)

P1-pa.035*

Fesibility Study on Pulse Shape Discrimintion of (Gd, 6Li)-loaded Liquid Scintillator with Various Organic Solvents

/ KIM SeungChan, JOO KyungKwang(전남대학교 물리학과 입자물리실험실.)

P1-pa.036*

Study of Background for SBL Experiment/ 고영주, 김시연, 김홍주¹, 이주영¹, 김영덕², 김현욱², 박강순², 박향규², 오유민², 이무현², 이재승², 이정연², 전은주², 김진유³, 김현수³, 마경주³, 김바로⁴, 김승찬⁴, 소선행⁴, 송숙형⁴, 여인성⁴, 주경광⁴, 서경민⁵, 여강모⁵, 선광민⁶, 한보영⁶, 박현서⁷(중앙대학교, 물리학과. ¹경북대학교, 물리학과. ²기초과학연구원, 지하실험연구단. ³세종대학교, 물리학과. ⁴전남대학교, 물리학과. ⁵전북대학교, 물리학과. ⁶한국 원자력 연구원. ⁷한국 표준과학연구원.)

P1-pa.037*

Quarkonium Analysis At 8TeV And Compare With The 7TeV Data in ALICE Muon Spectrometer

/ KONG Byungyun, OH Sun kun, BAEK Yongwook(Konkuk Univ.)

P1-pa.038

Lattice Non-perturbative Renormalization of four-fermion operators relevant to B_K / 김장호, 이원종¹, 정환철¹, 박성우¹, 박정환¹(KISTI, ¹서울대학교.)

P1-pa.039*

Constraints on the Interactions of SIMP Dark Matter

/ 최수민, 이현민(중앙대학교 물리학과.)

P1-pa.040*

A Study of background discriminate in a neutral kaon decay, $KL \rightarrow \pi^0 \pi^0 \gamma$ / KO Jewou, WOO Jong-Kwan, KIM Young Joo, LIU Dong, LIM Gei Youb¹, KIM Eun Joo², AHN Jung Gun³(Jeju National University, Jeju 690-756, Republic of Korea, Department of Physics. ¹Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization (KEK). ²Chonbuk National University, Chonbuk 561-756, Republic of Korea, Department of Science Education. ³Korea University, Seoul 136-701, Republic of Korea, Department of Physics.)

2015년 4월 22일 수요일 12:30 - 14:15

장소: 포스터발표장

P1-se.001*

Controlling Photoluminescence Wavelength from Ge-on-Si by Thermal Annealing / LEE Chulwon, YOO YangSeok, MIN-HO Jang, CHO Yong-Hoon, KI Bugeun¹, OH Jungwoo¹(카이스트 물리학과. ¹연세대학교 글로벌융합공학부.)

P1-se.002

Antireflective properties of micro-pyramidal structured silicon prepared by wet etching / DUDEM Bhaskar, 임정우, 유재수(Kyung Hee University, Department of Electronics and Radio Engineering.)

P1-se.003

Pt 나노입자 기능화된 네트워크 CNTs 센서의 가스 감응특성 향상 Enhanced Gas Sensing Properties by Pt Functionalization of Networked CNTs-Based Gas Sensors / 최선우, 이제행, 김재성, 변영태(한국과학기술연구원, 센서시스템연구센터.)

P1-se.004

Dynamical decoupling of donor electron spins in phosphorus-doped silicon / GWAK Minchan, YU Insuk¹, LEE Sanggap(Korea Basic Science Institute, Daejeon 305-333, Republic of Korea. ¹Department of Physics and Astronomy, Seoul National University, Seoul 151-742, Republic of Korea.)

P1-se.005

Enhancement of light absorption in Au-nano particle attached Si NWs / 조만호, 김정훈, 배정민, 오승훈(연세대학교 물리학과.)

P1-se.006*

Strong Fermi-Level Pinning at Metal/Si(001) Interface Ensured by Forming Abrupt Schottky Junction with Graphene Insertion Layer / YOON Hoon Hahn, JUNG Sung Chul, CHOI Gahyun, KIM Jun Hyoung¹, JEON Youngeun¹, JEONG Hu Young², KIM Kwanpyo, PARK Kibog³(Department of Physics, UNIST. ¹School of Electrical and Computer Engineering, UNIST. ²UNIST Central Research Facilities (UCRF), UNIST. ³School of Electrical and Computer Engineering and Department of Physics, UNIST.)

P1-se.007

Current-voltage characteristics in Cu Schottky contacts to n-type Ge / KIM Se Hyun, JUNG Chan Yeong, KIM Hogyoung(Seoul National University of Science and Technology, Department of Visual Optics.)

P1-se,008*

Electrical properties of band-gap controlled Ge doped $\text{ZnO}_{1-x}\text{S}_x$ thin films / 한성진, 김상욱, 최해인, 김원정, 이명환¹, 박진수¹, 김다정¹, 송태권¹, 김명호¹, 정일경²(Department of Physics, Changwon National University. ¹School of Materials Engineering, Changwon National University. ²Department of Physics Education, Pusan National University.)

P1-se,009

InAs/GaSb 제2형 초격자 적외선 검출소자의 암전류 특성 연구 / HUN Lee, SANG JUN Lee¹, JUN OH Kim¹, HA SUL Kim(전남대학교 물리학과. ¹한국표준과학연구원.)

P1-se,010

Negative Diamagnetic Shift in InP-GaP Lateral Nanowires under Pulsed Magnetic Fields / KIM Yongmin, SHIN Y. H., SONG J. D.¹(Dankook University. ¹KIST.)

P1-se,011*

Defect Distribution in InGaN/GaN Light-Emitting Diodes Investigated by Frequency-Dependence Capacitance-Voltage Measurement / SONG Jung-Hoon, KIM Tae-Soo, HONG Moon-Taek, OH Nan-Cho, YU Hey-Jung, EOM Tae-Kyun, LIM Seung Young, MOON Yungboo¹, HONG Soon-Ku², BAEK Jong-Hyeob³, CHUNG Tae-hoon³(Kongju National University, Department of Physics. ¹UJL Ltd. ²Chungnam National University, Department of Materials Science & Engineering. ³Korea photonics Technology Institute, LED R&DB Division.)

P1-se,014

A 1D plasmonic type-II superlattice device for linear polarization detection / YOON Su-Jin, KANG Byung Soo¹, KIM Jun Oh¹, KANG Sang-Woo¹, KIM Jong-Su², URBAS Augustine³, KU Zahyun³, LEE Sang Jun¹(Division of Industrial Metrology, Korea Research Institute of Standards and Science, Department of Physics, Yeungnam University. ¹Division of Industrial Metrology, Korea Research Institute of Standards and Science. ²Department of Physics, Yeungnam University. ³Air Force Research Laboratory, Wright-Patterson Air Force Base.)

P1-se,015*

Electrical properties and transport mechanism of p-ZnTe/n⁺-GaAs hetero-junction grown by pulsed laser deposition / LEE Kyoung Su, OH Gyujin, KIM Eun Kyu(Department of Physics, Hanyang University.)

P1-se,016

FTO Glass 기판에 성장된 hierarchical CdS 나노선의 성장과 결정구조 및 광학적 특성 분석 / 송만석, 김용(동아대학교 물리학과.)

P1-se.017*

Discrete states and carrier-phonon scattering in multilayer CdTe/ZnTe quantum dots / MAN Minh Tan, 이흥석(전북대학교, 물리학과.)

P1-se.018*

CdTe/ZnTe 다층 양자점에서 ZnTe 장벽층 두께에 따른 광학적 특성 / 김수환, 진성환, 최진철, 임상엽¹, 이흥석²(연세대학교, 물리학과. ¹광주과학기술원, 고등광기술연구소. ²전북대학교, 물리학과.)

P1-se.019

Physical Properties of the Gallium doped Zinc Magnesium Oxides Thin Films / 전병익, 구지민¹, 이성민¹, 이종림(한국과학영재학교 물리지구과학부. ¹한국과학영재학교.)

P1-se.020*

Raman scattering from CdTe/ZnTe self-assembled quantum dots / 백슬기, 이흥석, 노희석(전북대학교 물리학과.)

P1-se.021*

SPOTTING CARRIER INJECTION MECHANISM ACROSS METAL-MoS₂ INTERFACE / YOO WonJong, AHMED Faisal¹, CHOI MinSup, LIU Xiaochi(Sungkyunkwan University, SKKU Advance Institute of Nano Technology (SAINT). ¹Sungkyunkwan University, Mechanical engineering.)

P1-se.022*

Wafer scale synthesis of multilayers MoS₂ thin film by pulse laser deposition / ULLAH Farman, SENTHILKUMAR V., KIM Sun-Ho, KIM Yong Soo(Department of Physics and Energy, Harvest-Storage Research Center.)

P1-se.023*

Structural and Luminescence features of Lithium-doped p-type ZnO Sheet-like Nanorods / HONG Jinpyo, KO Wonbae, YEON Bummo(Hanyang University.)

P1-se.024*

Highly doped MoS₂ PN junction formed by using chemicals / YOO WonJong, RYU JungJin¹, CHOI MinSup, LIU Xiaochi(Sungkyunkwan University, SKKU Advanced Institute of Nano-Technology (SAINT). ¹Sungkyunkwan University, Mechanical Engineering.)

P1-se.025*

Synthesis of Large-Area MoS₂ with Chemical Vapor Deposition / KYUNG-HWA Yoo, SANG JEONG Kim, SUNG JIN Park, JUN HO Song(Yonsei university, Department of Physics.)

P1-se,026*

Bipolar resistive switching in solution-processed Pt/Bi_{1-x}Sbx/Pt single nanowire device / PARK Myung Uk, HAN NALAE, YI Sum-gyun, KIM Sung Hyun, YOO Kyung-Hwa(연세대학교.)

P1-se,027*

Tunneling spectroscopy for nanomaterials based on contact barrier engineering / 최동환, 정두원, 김주진, 이정오¹, 배명호²(전북대, 물리학과. ¹한국화학연구원. ²한국표준과학연구원.)

P1-se,028

Dielectric Functions of Monolayer WS₂ and WSe₂ on Sapphire Substrate / PARK Jun-Woo, KIM Sung, CHOI Suk-Ho, LEE Hosun(Kyung Hee University, Department of Applied Physics.)

P1-se,029

CVD법으로 성장한 Mn 도핑된 그래핀에서의 상온 강자성 반도체 특성 / 박창수, 손윤¹, 김은규(한양대학교 물리학과. ¹동국대학교 양자기능반도체 연구센터.)

P1-se,030

The metal insulator transition of MoS₂ and the junction property between metallic MoS₂ region and insulating MoS₂ region / LIM Seong Chu, LEE Young Hee, CHOI Homin, JIN Youngjo(성균관대학교 에너지과학과 나노구조물리연구단 IBS.)

P1-se,031

Lead sulfide의 구조 합성 및 특성분석 / 오은순, 김종동, 김승기(충남대학교, 물리학과.)

P1-se,032*

Plasma Passivation of Si Solar Cell Nanosurface Using Plasma Enhanced Chemical Vapor Deposition / PARIDA BHASKAR, CHOI JAEHO, PALEI SRIKANTA, KO SEOKYONG¹, KIM KEUNJOO¹(Dept. of Mechanical Engineering, Chonbuk National University. ¹Dept. of Mechanical Engineering, Chonbuk National University, Division of R&D, Withlight. co. Ltd.)

P1-se,033

Passivation 효과에 따른 GaAs 나노와이어의 전기적, 광학적 특성 분석 / CHOI Chan Ho(영남대학교, 물리학과.)

P1-se,034*

GaAs/Si Heterojunction Formation by E-beam Evaporator for Si Solar Cell Applications / PALEI Srikanta, PARIDA Bhaskar, CHOI Jaeho, KIM Keunjoo(Dept. of Mechanical Engineering, Chonbuk National University.)

P1-se.035*

Optical reflectance studies of sub-100-nm Si nanopatterns for inspection of wettability / KIM Sujung, GWON Minji, KIM Dong-Wook, CHEN Chang¹(Ewha Womans University, Department of Physics. ¹IMEC, Belgium.)

P1-se.036*

Mie-resonance-mediated light trapping in Si nanostructure arrays / KIM Eunah, CHO Yunae, SOHN Ahum, KIM Dong-Wook, PARK Hyeong-Ho¹, KIM Joondong²(Ewha Womans University, Department of Physics. ¹Korea Advanced Nano Fab Center (KANC). ²Incheon National University, ³Department of Electrical Engineering.)

P1-se.037

Effect on Electro-optical Properties Depending on Substrate Temperature of TiInZnO Thin Films Prepared by RF Magnetron Sputtering. / HEO Gi-Seok, KIM Eun Mi, OH Jeong Pyo¹, KIM Nam-Ho(Korea Institute of Industrial Technology. ¹Chonnam National University.)

P1-se.038

Graphene/Organic Junction Transistor with Ion-gel Gate Dielectric / 박배호, 오광택, 전지훈, 김진수, 원은아, 이덕현, 김철겸(건국대학교, 양자상및 소자전공.)

P1-se.039

Decrease of the rise time in the electroluminescence of tris(8-hydroxyquinolinato)aluminum under a magnetic field / KANG Hoju (POSTECH, PAL.)

P1-se.040*

Patterning of Rubrene Thin Film using Electron Irradiation and its Application to Organic Electronics / 김재준, 이혁무¹, 조성오(KAIST 원자력 및 양자공학과. ¹LG 화학.)

P1-se.041*

온도 변화에 따른 무전해 니켈 도금박막의 표면 분석 / 백승덕, 김나영, 김찬홍, 오원진, 이연승, 나사균, 김동규(한밭대학교 정보통신공학과, 한밭대학교 재료공학과, (주)엠케이피디.)

P1-se.042*

알루미늄 기재의 무전해 구리도금에 있어서 Pd 촉매제가 도금 특성에 미치는 영향 / 김나영, 백승덕, 김찬홍, 오원진, 이연승, 나사균¹, 김동규²(한밭대학교 정보통신공학과. ¹한밭대학교 재료공학과. ²(주)엠케이피디.)

P1-se,043

RSM을 이용한 절단 웨이퍼의 표면 결정성 분석 / 김창수, 정인영¹, 전현구¹, 최민혁, 육영진², 이송희², 정양수³(한국표준과학연구원, ¹한국표준과학연구원, 충남대학교, ²웅진에너지 주식회사, ³충남대학교.)

P1-se,044

DMAB양에 따른 Electroless Ni Plating 특성 분석 / 김찬홍, 김나영, 백승덕, 이연승, 나사균¹, 김동규²(국립한밭대학교 정보통신 공학과, ¹국립한밭대학교 재료공학과, ²(주)엠케이피디.)

2015년 4월 22일 수요일 15:00 - 15:45

장소: 포스터발표장

P2-ap.001

Effect of proton irradiation in AlGaIn/GaN HEMT device / 장영준, 이인학¹, 주범수¹, 최병기¹, 안한열¹, 김지호¹, 이철¹, 윤예슬², 최은집¹, 한문섭¹, 장승엽³(서울시립대 물리학과 & 에너지환경시스템공학과, ¹서울시립대 물리학과, ²서울시립대 물리학과 & 한국과학기술연구원 광전소재 연구단, ³LG전자 연구소.)

P2-ap.002*

Enhancement of antireflection property of silicon using nanostructured surface combined with a polymer deposition / HA Jun Mok, YOO Sung Ho, CHO Jong Hoi¹, CHO Yong Hoon¹, CHO Sung Oh(Dept. of Nuclear and Quantum Eng. Korea Advanced Institute of Science and Technology, ¹Dept. of Physics and KI for the NanoCentury, Korea Advanced Institute of Science and Technology.)

P2-ap.003*

Low temperature synthesis of ITO thin films with KrF excimer laser irradiation / 김혁진, 이윤상¹, 노미루¹, 박용섭², 김지훈², 박종혁³, 장영준⁴(서울시립대 에너지환경시스템공학과, ¹송실대학교 물리학과, ²경희대학교 물리학과, ³한국전자통신연구원 (ETRI), ⁴서울시립대 물리학과 & 에너지환경시스템공학과.)

P2-ap.004*

RTP temperature dependence of CZTSSe absorber layer / CHO Soyeon, NAM Dahyun, LIM Soo Yeon, KO Byoung Soo¹, HWANG Dae-Kue¹, KIM Dae-Hwan¹, KANG Jin-Kyu¹, CHEONG Hyeonsik(Sogang University, Department of Physics, ¹Daegu Gyeongbuk Institute of Science & Technology, Advanced Convergence Technology Center.)

P2-ap.005*

Atomic Layer Deposition of High-k Thin Films on Graphene / 박용현, 김미혜, 김수빈, 박지용, 이상민, 이상운(아주대학교 물리학과/에너지시스템학과.)

P2-ap.006*

Creation of 2-Dimensional Electron Gas at Amorphous Oxide/SrTiO3 Heterostructures using Atomic Layer Deposition / 정해준, 이상운(아주대학교 물리학과/에너지시스템학과.)

P2-ap.007*

B-site에 Nb, Mn을 치환한 CaBi₄Ti₄O₁₅ 고온 세라믹스의 압전 특성 변화 / 조삼연, 최기쁨, 부상돈(전북대학교, 물리학과.)

P2-ap.008*

Nd 도핑 양이 $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ 세라믹스의 압전 특성과 강유전 특성에 미치는 효과 / 최기쁨, 조삼연, 부상돈(전북대학교, 물리학과.)

P2-ap.009

Influence of Charge Compensation on the Enhancement of the Photoluminescence in $\text{CaMoO}_4\text{:Eu}^{3+}$, Bi^{3+} Phosphor / JEONG Jung Hyun, KIM Eun Ock, SEO Yeon Woo, MOON Byung Kee, CHOI Byung Chun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P2-ap.010

Experimental and Theoretical Study of Pure and Eu^{3+} -doped CaMoO_4 Phosphors / JEONG Jung Hyun, PARK Sung Wook, NOH Hyeon Mi, KIM Do Rim, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P2-ap.011

Upconversion Luminescence Properties and Morphology of Yb^{3+} , Er^{3+} doped $\beta\text{-NaYF}_4$ / JEONG Jung Hyun, OH Ju Hyun, MOON Byung Kee, CHOI Byung Chun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P2-ap.012

The Capability of Any Wavelength Excitation in the 250-500 Range in $\text{Sr}_2\text{CaW}_{1-x}\text{Mo}_x\text{O}_6\text{:Sm}^{3+}$ Phosphor / JEONG Jung Hyun, WANG Lili, NOH Hyeon Mi, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P2-ap.013

합성 온도에 따른 calcium phosphate 분말의 구조 변화 / 하명규, 강보배, 김종필, 김정하, 양호순¹, 홍경수(한국기초과학지원연구원 분자제어소재연구팀. ¹부산대학교 물리학과.)

P2-ap.014

Sm^{3+} 를 첨가한 hydroxyapatite 분말의 물성 및 광특성 연구 / 하명규, 강보배, 김현규, 양호순¹, 홍경수(한국기초과학지원연구원 분자제어소재연구팀. ¹부산대학교 물리학과.)

P2-ap.015

Eu^{3+} 이 첨가된 $\text{Ca}_5(\text{PO}_4)_3\text{OH}$ 분말의 합성과 특성 연구 / 하명규, 강보배, 김종필, 김정하, 양호순¹, 홍경수(한국기초과학지원연구원 분자제어소재연구팀. ¹부산대학교 물리학과.)

P2-ap.016

White-light Emission from a Single-phase $\text{Ca}_9\text{NaGd}_{2/3}(\text{PO}_4)_7:\text{Eu}^{2+}/\text{Mn}^{2+}$ Phosphor under Near-Ultraviolet Excitation / JEONG Jung Hyun, GUO Yue, NOH Hyeon Mi, WANG Lili, CHOI Byung Chun, KIM Jung Hwan¹(Department of Physics, Pukyong National University. ¹Department of Physics, Dong-eui University.)

P2-ap.017*

Nanoscale Morphology Control of Lead Zirconium Titanate Nanocrystals on Multi-walled Carbon Nanotubes using Sol-gel Technique / SINWOOK Kang, JINKYU Han, SANGDON Bu(Department of Physics, Chonbuk National University, Jeonju 561-756, Korea.)

P2-ap.018

Enhancement of Photocatalytic and Catalytic Properties of Au@Pt Heteronanostructures for Efficient Hydrogen Generation from Hydrolysis of Ammonia Borane / PARK Ji Won, LAI Hsiao Wu, CHO Sung Oh(Dept. of Nuclear and Quantum Eng. Korea Advanced Institute of Science and Technology.)

P2-ap.019

Investigation of Fe-based Soft Magnetic Alloy System with High Saturation Magnetization / YIM Haein, KIM Sumin(Sookmyung Women's University, Department of Physics.)

P2-ap.020

Thermodynamic analyses of MTS and TMS as precursors for SiC single crystal growth using HTCVD method / KANG Yura, JEONG Seongmin¹, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University, Seoul 143-747, Korea. ¹Energy & Environmental Division, Korea Institute of Ceramic Engineering and Technology, 101, Soho-ro, Jinju-si, Gyeongsangnam-do, Korea.)

P2-ap.021*

타원편광분석법을 이용한 $\text{In}_x\text{Al}_{1-x}\text{P}$ 유전율 함수 연구 / 박한결, 김태중, 남구현, 박재찬, BARANGE Nilesh, 김영동, 이은혜¹, 송진동¹(경희대학교 물리학과. ¹한국과학기술 연구원 광전융합시스템 연구단.)

P2-ap.022

Cu(In,Ga)Se₂ 박막의 결정 성장 방향에 따른 전기적 특성 분석 / 김찬, 이성엽, 홍윤정, 김지혜, 조연정(경북대학교 물리학과.)

P2-ap.023*

Raman measurements of twisted bi-layer graphene with controlled misorientation angle / HAN Songhee, KIM Minjung, LEE Jae-

Ung, CHEONG Hyeonsik(서강대학교 , 물리학과.)

P2-ap.024*

Raman and photoluminescence of suspended few-layer MoS2
/ KIM Kangwon, LEE Jae-Ung, CHEONG Hyeonsik(Sogang University,
Department of Physics.)

P2-ap.025*

Dissociative hydrogen-induced electron doping of chemical vapor deposition grown single layer graphene / HONG Sung Ju, PARK Min, KANG Hojin, LEE Minwoo¹, SOLER-DELGADO David, SHIN Dong Seok², KIM Kyung Ho, KUBATKIN Sergey³, JEONG Dae Hong¹, PARK Yung Woo, KIM Byung Hoon²(Department of Physics and Astronomy, Seoul National University. ¹Department of Chemistry Education, Seoul National University. ²Department of Physics, Incheon National University. ³Department of Microtechnology and Nanoscience, Chalmers University of Technology.)

P2-ap.026*

Wafer-Scale Fabrication of Anodized Aluminum oxide(AAO)-Based Nanobiosensor / YOO Kyunghwa, KIM Bongjun, OH Jeseung¹(Yonsei University, Department of Physics. ¹Proteometech Inc..)

P2-ap.027*

Catalytic Role of FeCl3 in the Spontaneous Pattern Transfer for Selective Growth of Graphene / 이상화, 장동수, 주미연, 윤한섭, 김진교 (경희대,물리학과.)

P2-ap.028*

금속 나노 입자/도핑 반도체에서의 향상된 온도 계수 및 민감도 / 이승훈, 황성필, 곽민석², 장재원(부경대학교 물리학과. ¹고려대학교 응용 화학과. ²부경대학교 화학과.)

P2-ap.029*

Superconducting Proximity Effects in PbIn-Au-PbIn Weak Links Near Liquid Helium Temperature / KIM Nam-Hee, KIM Bum-Kyu, KIM Hong-Seok, DOH Yong-Joo(Department of Applied Physics, Korea University Sejong Campus.)

P2-ap.030*

Superconducting Quantum Interference Devices of PbS Semiconductor Nanowires / KIM Hong-Seok, KIM Bum-Kyu, YANG Yiming¹, PENG Xingyue¹, YU Dong¹, DOH Yong-Joo(Korea University Sejong Campus, Department of Applied Physics. ¹University of California, Davis, Department of Physics.)

P2-ap.031*

Graphene field-effect transistor on ferroelectric single-crystal substrate / PARK Nahee, KANG Haeyong, LEE Young Hee¹, SUH Dongseok¹

(Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea. ¹Department of Energy Science, Center for Integrated Nanostructure Physics, Institute for Basic Science (IBS), Sungkyunkwan University, Suwon 440-746, Korea.)

P2-ap.032*

Thermal mapping of paraffin infiltrated multiwall carbon nanotube yarn by infrared microscopy / TRUONG KIEU, KANG HAEYONG¹, LEE Young Hee, SUH Dongseok

(Department of Energy Science, Center for Integrated Nanostructure Physics, Institute for Basic Science (IBS), Sungkyunkwan University, Suwon 440-746, Korea. ¹Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea.)

P2-ap.033*

겹 수에 따른 이텔루르화 텅스텐의 광학적, 전기적 특성 확인 및 p형 barristor 소자 특성 연구 / 김현철, 이준호, 최두화, 이한별, 정내봉, 박도현, 김학성, 이재웅¹, 정현식¹, 이상욱, 정현종(건국대학교 물리학과 양자상 및 소자전공. ¹서강대학교 물리학과.)

2015년 4월 22일 수요일 15:00 – 16:45

장소: 포스터발표장

P2-at,001

가우시안 상태 빛의 비고전적 특성 / 김기식, 장석현, 신종화(인하대학교, 물리학과.)

P2-at,002

Analytical Solutions of Three Color Electromagnetically Induced Absorption in a Ladder-type Atomic System / 노흥렬, 문한섭(전남대학교, 물리학과. ¹부산대학교, 물리학과.)

P2-at,003

Experimental progress of atomic qubit lattice by optical Talbot interference / 김효섭, 이한결, 조한래, 이우준, 송윤홍, 안재욱(KAIST 물리학과.)

P2-at,004*

Theoretical Calculation of Lineshapes in sub-Doppler DAVLL / CHOI Gyeong Won, NOH Heung-Ryeul(Department of physics, Chonnam National University.)

P2-at,005

Light Shifts and Magic Wavelengths for Radium / PARK Sung Jong, SHIN Taeksu(Institute for Basic Science.)

P2-at,006*

Medium-Induced Interactions in the Two-Dimensional Fermi Gases with the Rashba Spin-Orbit Coupling / LEE Juhee, KIM Dong-Hee(광주과학기술원, 물리광과학과.)

P2-at,007

Quantification of Macroscopic Superposition based on coarse-grained measurement / YEE Ki Hyuk, BANG Jeongho¹, LEE Changhyoup², LEE Jinhyoung(Hanyang University. ¹Gwangju Institute of Science and Technology. ²Centre for Quantum Technologies, National University of Singapore.)

P2-at,008

Introduction to B-Spline R-Matrix / LEE Min-Ho, 변창우, 최낙렬, 김대성(금오공과대학교 교양교직과정부. ¹경기과학기술대학교 공통교육과.)

P2-at,009*

Quantum Mechanical Conditions of Coupling for Efficient Energy

Transfer / LEE Joon-Sung, LEE Jinhyoung, LIM James¹(Department of Physics, Hanyang University. ¹Department of Physics, Ulm University.)

P2-at.010

Coupling power dependences on ultra-narrow spectral features of EIA of ^{85}Rb atom / REHMAN Hafeez Ur, MUHAMMAD MOHSIN Qureshi, HEUNG-RYOUNG Noh¹, JIN-TAE Kim(조선대학교, 광기술공학과. ¹전남대학교, 물리학과.)

P2-at.011*

Creation of Ultracold Quantum Gases of Ytterbium Atoms / 신용일, 김민석, 이무송, 한정호(서울대학교 물리천문학부.)

P2-at.012

Proton spin-echo magnetometer for measuring low magnetic fields in residual field gradient / SHIM Jeong Hyun, LEE Seong-Joo, HWANG Seong-min, YU Kwon Kyu, KIM Kiwoong(Korea Research Institute of Standards and Science.)

P2-at.013*

^{87}Rb 상온 증기셀에서 속도선택 광펌핑 미세분광신호 관측(Observations of Doppler-free hyperfine spectroscopy of the D2 line of ^{87}Rb vapors) / 함병승, 황승현, 허선우(광주과학기술원 광양자정보처리센터.)

P2-at.014*

Flat response atomic magnetometer under negative feedback for biosignals / KIM kiwoong, SHIM Jeong Hyun, LEE Hyun Joon¹, MOON Han Seb¹(Korea Research Institute of Standards and Science (KRISS), Center for Biosignals. ¹Pusan National University, Department of Physics.)

P2-at.015*

Implentation of Continuous Variable Operational Quasi-probability via Consecutive Homodyne Measurement / JAE jeongwoo, SEOL Kang Hee, YEE Ki Hyuk, LEE Jinhyoung(Hanyang University, Department of Physics.)

P2-at.016

Quantum Trajectories in the Time-Dependent Analytic R-matrix Method / 최낙렬, 변창우, 이민호, 김대성(금오공과대학교 교양교직과정부. '경기과학기술대학교 공통교육과.)

P2-at.017*

Epigenetic and anti-cancer effects of proton beam on MCF-10A and MCF-7 breast cells / KIM Sun Jung, KIM Byungtak, BAE Hansol, PARK Sung-Bin, LEE Hyun Kyung, LEE Seung Yeon, PARK Jeong Chan¹, KIM

Kye Ryung¹(Department of Life Science, Dongguk University-Seoul. ¹Korea Multi-purpose Accelerator Complex, Korea Atomic Energy Research Institute.)

P2-at,018*

Effects of generalized measurement on the entropic uncertainty /
SON Wonmin, BAEK Kyunghyun(Sogang University, Physics department.)

P2-at,019*

Axiomatic approach for the functional bound of generic Bell's inequality / SON Wonmin, BAE Gwangil(Songang University, Department of Physics.)

2015년 4월 22일 수요일 15:00 – 16:45

장소: 포스터발표장

진행위원: [강상관, 001-032] 오윤석(UNIST)

[초전도, 033-041] 조연정(경북대)

[유전체, 042-059] 박중호(진주교대)

P2-co.001

Correlation Between Electrical, Morphological And Structural Properties In Nanosize VO₂ Films / SLUSAR Tetiana, CHO Jin-cheol, KIM Hyun-Tak(ETRI, MIT Creative Research Center.)

P2-co.002

Ferroelectric Properties of the Barium Europium Titanates Solid Solution / 전병역, 김민기¹, 오승민¹, 이종림(한국과학영재학교 물리지구과학부, ¹한국과학영재학교.)

P2-co.003

Suppression of structural distortions and charge order in BaBiO₃ thin films / NEUMANN Michael, KIM Gideok, KIM Minu, KANG Tae Dong, NOH Tae Won(Center for Correlated Electron Systems, IBS.)

P2-co.004

Investigation of magnetism-driven ferroelectricity in a double-perovskite Lu₂CoMnO₆ single crystal / LEE Nara, CHIKARA Shalinee¹, ZAPF Vivien¹, CHOI Hwan Young, CHOI Young Jai(Yonsei University. ¹National High Magnetic Field Lab, Los Alamos National Laboratory, USA.)

P2-co.005

불순물 도핑에 의한 ZnO계의 특성변화 연구 / 김수재, 정세영(한국원자력연구원 양성자가속기연구센터. ¹부산대학교 나노과학기술대학.)

P2-co.006

Separation of localized carrier types in transparent thin films of polycrystalline p-type semiconducting NiO_x / HA Taewoo, LEE Kwang H.¹, SIM Kyung Ik, IM Seongil, KIM Jae Hoon(Department of Physics, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea. ¹Defense Advanced R&D Institute, Agency for Defense Development, P.O. Box 35, Yuseong, Daejeon305-600, South Korea.)

P2-co.007

Nonlinear Transport Behavior for Negative Differential Resistance driven by Metal-Insulator Transition in VO₂ Thin Films / 양형우, 강대준(Department of Physics, Sungkyunkwan University, Korea.)

P2-co.008*

Path-integral Monte Carlo Study of Helium Adsorption on C_{40} Molecular Surfaces / KWON Yongkyung, PARK Sungjin(건국대학교 물리학과)

P2-co.009*

Critical Behavior of Classical XXZ Triangular Lattice Antiferromagnets Under Transverse Magnetic Fields / JEON Gun Sang, YUN Miso(Dept. of Physics, Ewha Womans University.)

P2-co.010*

수소환원에 의한 몰리브덴 산화물의 구조 상전이 연구 / 안은영, 조승혜, 공현준, 황춘규, 김동진, 진형진(부산대학교 물리학과, 부산 609-735.)

P2-co.011*

SrFe_{0.8}Co_{0.2}O_{3-δ} 박막의 증착조건에 따른 물성 연구 / 이준혁, 장윤희¹, 조진형², 진형진(부산대학교 물리학과, 609-735, 부산. ¹부산대학교 물리학과, 609-735, 부산;부산대학교 유전체물성연구소, 609-735, 부산. ²부산대학교 유전체물성연구소, 609-735, 부산;부산대학교 물리교육학과, 609-735, 부산.)

P2-co.012*

Observation of half-quantum vortices in a spin-1 antiferromagnetic Bose-Einstein condensate / 신용일, 서상원, 강세지, 권우진(Seoul National University.)

P2-co.013*

Density Matrix Renormalization Group Study of Ferromagnetically Frustrated Spin-1 Chain System / LEE Hyeong Jun, JEON Gun Sang¹, CHOI MooYoung(Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University. ¹Department of Physics, Ewha Womans University.)

P2-co.014*

Electronic Structure Studies on Transition Metal Dichalcogenides by angle resolved photoemission / 김창영, 김범서, 김범영, 조수현, 박승룡(연세대학교, 물리 및 응용물리학과. ¹인천대학교, 물리학과.)

P2-co.015*

Doping dependent band evolution of Sr₂Ir_{1-x}Ru_xO₄ / HWANG Jungseek, LEE Seokbae, JUNG Eilho, ROH Seulki, CHOI Youngjae¹, CHOI Kwang-Yong²(Department of Physics, Sungkyunkwan University. ¹Institute of Physics and Applied Physics, Yonsei University. ²Department of Physics, Chungang University.)

P2-co.016*

Optical Study of Spacing Dependent Properties of Fractionally δ

-doped Titanate Superlattice / HWANG Jungseek, ROH Seulki¹, CHOI Minsu², SEO Yuseong¹, LEE Seokbae¹, JUNG Ilho¹, CHOI Wooseok¹, LEE Jaichan²(Department of Physics, Sungkyunkwan University. ¹Department of Physics, Sungkyunkwan University. ²School of Advanced Materials Science and Engineering, Sungkyunkwan University.)

P2-co.017*

Optical study on [(SrIrO₃)m/(SrTiO₃)] superlattice / KIM Soyeun, SOHN Chang Hee, NOH Tae Won, MATSUNO Jobu¹(IBS-CCES, SNU department of physics. ¹RIKEN Advanced Science Institute.)

P2-co.018*

Electrodynamics of Ru-doped Sr₃Ir₂O₇ Investigated by Using Infrared Spectroscopy / SONG Seungjae, AHN G. H., HOGAN T.¹, WILSON S. D.², MOON S. J.(Department of Physics, Hanyang University, Seoul 133-791, Korea. ¹Department of Physics, Boston College, Chestnut Hill, Massachusetts 02367, USA. ²Department of Materials, University of California, Santa Barbara, California 93106, USA.)

P2-co.019*

Infrared Spectroscopic Investigation of the Charge Dynamics of Electron-Doped Sr₃Ir₂O₇ / AHN Gihyeon, SONG S. J., HOGAN T.¹, WILSON S. D.², MOON S. J.(Department of Physics, Hanyang University, Seoul 133-791, Korea ¹Department of Physics, Boston College, Chestnut Hill, Massachusetts 02467, USA. ²Department of Materials, University of California, Santa Barbara, California 93106, USA.)

P2-co.020*

Time-resolved broadband terahertz spectroscopy using ZnTe, GaP and GaSe non-linear crystals / KWAK Inho, LEE Min-Cheol, SEO Choongwon¹, LEE YeongSeon¹, CHOI Jae-Yoon², KIM Kyungwan¹, NOH Tae Won(Center for Correlated Electron Systems, Institute for Basic Science, Republic of Korea. ¹Department of Physics, Chungbuk National University. ²Quantum Many Body Systems, Max-Planck-Institute of Quantum Optics.)

P2-co.021*

An application of Vanadium Dioxide as Metal and Insulator in Metal-Insulator-Metal Diodes / ABBAS Kaleem, 강대준(Department of Physics and Department of Energy Science, Sungkyunkwan University, Korea.)

P2-co.022*

Non-linear Hall Effect and Giant Resistivity Anomaly in Transition Metal Pentatellurides / KHO Byung Woo, PARK Joonbum, KAMPERT Erik¹, KIM Jun Sung(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea. ¹Dresden High Magnetic Field Laboratory, Helmholtz-Zentrum Dresden-Rossendorf, D-01314 Dresden, Germany.)

P2-co.023

Magnetoresistance and Electronic Structure of WTe₂ / JEONG Jinwon, MOON Hyun Sook, KIM Euna, NOH Han-Jin(Department of Physics, Chonnam National University.)

P2-co.024

Study of Topological Phase Transitions in Topological Insulator Bi₂Se₃ Ultrathin Films / PARK Byung Cheol, KIM Tae-Hyeon¹, SIM Kyung Ik¹, KANG Boyoun², KIM Jeong Won³, CHO Beongki², JEONG Kwang-Ho¹, CHO Mann-Ho¹, KIM Jae Hoon¹(Department of Mechanical Engineering, Korea Advanced Institute of Science and Technology (KAIST). ¹Department of Physics, Yonsei University. ²School of Materials Science and Engineering, Gwangju Institute of Science and Technology. ³Division of Industrial Metrology, Korea Research Institute of Standards and Science (KRISS).)

P2-co.025

Confirmation of Two Scattering Mechanisms in n-type NiOx Transparent Conducting Films / LEE Howon, HA Taewoo, LEE Kwang H. L, SIM Kyung Ik, IM Seongil, KIM Jae Hoon, LEE Kwang H. L¹(Department of Physics, Yonsei University 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea. ¹Defense Advanced R&D Institute, Agency for Defense Development, P.O. Box 35, Yuseong, Daejeon 305-600, South Korea.)

P2-co.026

Manipulation of Conduction Electron Density in Epitaxial Films of Perovskite Ba_{1-x}La_xSnO₃ / KIM Jong Hyeon, HA Taewoo, KIM Useong¹, SIM Kyung Ik, PARK C. K.¹, CHAR Kookrin¹, KIM Jae Hoon(Department of Physics, Yonsei University. ¹Department of Physics and Astronomy, Seoul National University.)

P2-co.027

Dopant Site Dependent Carrier Dynamics in Epitaxial Films of Perovskite Barium Stannate / JO Young Chan, HA Taewoo, KIM Useong¹, SIM Kyung Ik, PARK C. K.¹, CHAR Koorin¹, KIM Jae Hoon(Department of Physics, Yonsei University. ¹Department of Physics and Astronomy, Seoul National University.)

P2-co.028

Direct observation of magnetodielectric effect in type-I multiferroic PbFe_{0.5}Ti_{0.25}W_{0.25}O₃ / MOON Jaeyoung, KIM MiKyung, CHOI HwanYoung, OH SangHyup, JO YoungHoon¹, LEE Nara², CHOI YoungJai²(연세대학교, 물리학과. ¹Korea Basic Science Institute, Materials Science. ²연세대학교, 물리학과.)

P2-co.029

Orbital Angular Momentum Observation on Al(111) Surface /

YOO HANYOUNG, KIM BEOMYOUNG, HAN GARAM, JUNG JONGKEUN, ARITA MASASHI¹, SHIMADA KENYA¹(Physics department, Yonsei university. ¹Hiroshima Synchrotron Radiation Center.)

P2-co.030

Resistance Switching In VO₂ And V_{1-x}W_xO₂ Devices With Various Channel Dimension / 조진철, 신준환¹, 김현탁(ETRI, MIT창의연구센터. ¹UST, 차세대소자공학과.)

P2-co.031

Electrochemical and Optical Characteristics of Grown CuSO₄·5H₂O Crystals by Solution Growth Method / KWON Ji Eun, HONG Tae Eun, KIM Jung-Ha, HA Myoung Gyu, KIM Young-Hyun¹, KIM Jong-Pil(한국기초과학자원연구원 부산센터. ¹부산안남초등학교.)

P2-co.032

Unoccupied band splitting due to SOC in epitaxial IrO₂ film / KIM Woojin, KIM So Yun, SOHN Chang Hee, CHAE Seung Chul¹, NOH Tae Won(Center for Correlated Electron Systems, Institute for Basic Science, Republic of Korea & Department of Physics and Astronomy, Seoul National University, Republic of Korea. ¹Department of Physics Education, Seoul National University, Republic of Korea.)

P2-co.033

A Detailed Analysis for High-T_c Superconductivity Phase Diagram Based on the U(1) Slave-Boson Representation of t-J Hamiltonian / AHN Sul-Ah, LEE Sung-Sik¹, SALK Sung-Ho²(Korea Institute of Science and Technology Information. ¹McMaster University. ²Pohang University of Science and Technology.)

P2-co.034

Comparative Orbital Fluctuation Study in Iron Pnictides by ARPES / 고윤영, 김용관¹, 서정진², 엄만진³, 김준성³, 박병규⁴, 김재영⁴, 김창영²(포항가속기연구소, 연세대학교. ¹Advanced Light Source. ²연세대학교 물리학과. ³포항공과대학교 물리학과. ⁴포항가속기연구소.)

P2-co.035

Biaxially textured MgO films on solution derived planarization Y₂O₃ buffer substrate / 고락길, 김관태, 강부민, 하동우, 진혜진¹, 조월렴¹(한국전기연구원. ¹이화여자대학교.)

P2-co.036*

Angle Resolved Photoemission Spectroscopy study of Na dosed FeSe / SEO J. J., KIM Y. K., KIM B. Y., KIM B. S., KIM C., OK J. M.¹, KIM J. S.¹(Department of Physics, Yonsei University, Korea. ¹Department of Physics, Pohang University of Science and Technology, Korea.)

P2-co.037

Properties of Grain Boundaries in Superconducting MgB₂ Films /
LEE Sung Hoon, LEE Soon-Gul(고려대학교 세종캠퍼스, 응용물리학과.)

P2-co.038

The Local Analysis of YBCO Coated Conductors with Striations Using Low-Temperature Scanning Laser and Hall Probe Microscopy / RI Hyeong-Cheol, KIM Muyong, PARK Sangkook, PARK Heeyeon, KIM Chan, KIM Jongho(Kyungpook National University, Department of Physics.)

P2-co.039

The Local Studies on the Superconducting Properties of GdBCO Coated Conductor / RI HYEONG-CHEOL, PARK Heeyeon, KIM Muyong, KIM Chan, KIM Jongho, PARK Sangkook(Kyungpook national university, Department of physics.)

P2-co.041

Enhanced Critical Current Density in Artificially Layered Ba(Fe,Co)2As₂ Film / OH Myeong jun, LEE Jongmin¹, SEO Sehun¹, YOON Sejun¹, LEE Sanghan¹, JO Y.J.(Department of Physics, Kyungpook National University. ¹School of Materials Science and Engineering, Gwangju Institute of Science and Technology.)

P2-co.042

Effects of Rare Earth (Dy, Gd and Eu)-doping on Ferroelectric Properties of Aurivillius Na_{0.5}Bi_{4.5}Ti₄O₁₅ Thin Films / KIM Sang Su, RAGHAVAN Chinnambedu Murugesan, KIM Jin Won, CHOI Ji Ya(Changwon National University.)

P2-co.043

Structural and Electrical Properties of Chemical Solution Deposited 0.7BiFeO₃-0.3CaTiO₃ Solid Solution Thin Film / KIM Sang Su, KIM Jin Won, RAGHAVAN Chinnambedu Murugesan, CHOI Ji Ya(Changwon National University, Department of Physics.)

P2-co.044

Effects of Nb-doping on Structural and Electrical Properties of K_{0.5}Bi_{4.5}Ti₄O₁₅ Thin Films Prepared by Chemical Solution Deposition / KIM Sang Su, CHOI Ji Ya, KIM Jin Won, RAGHAVAN Chinnambedu Murugesan(Changwon National University, Department of Physics.)

P2-co.045

Energy-storage density of Bi_{0.5}(Na_{0.82}K_{0.18})(Ti_{1-x}Zr_x)O₃ ferroelectric thin film / 김일원, 채송아, 석해진, 최강호, TANGE Achiri(울산대학교, 물리학과 & EHSR.)

P2-co.046

Antiferroelectric Thin Film Capacitor with High Energy Storage Density, Low Energy Loss, and Fast Discharge Time / 안창원, 원성식, 채송아, 김일원(울산대학교, 물리학과 & EHSRC.)

P2-co.047

Ferroelectric domain structures of multiferroic YCrO_3 thin films / 서정대, 안윤호, 손종역(경희대학교, 응용물리학과.)

P2-co.048

Mn doping effect on ferroelectric domain structure of BaTiO_3 thin films / 안윤호, 서정대, 손종역(경희대학교, 응용물리학과.)

P2-co.049

Composition-dependent ferro/piezoelectric properties of BiFeO_3 - BaTiO_3 solid solution / LEE Myang Hwan, KIM Da Jeong, PARK Jin Su, KUMAR Shalendra, KIM Myong-Ho, SONG Tae Kwon, KIM Sang Wook¹, KIM Won-Jeong¹, DO Dalhyun², JEONG Il-Kyoung³(School of Materials Science and Engineering, Changwon National University. ¹Department of Physics, Changwon National University. ²Department of Advanced Materials Engineering, Keimyung University. ³Department of Physics Education, Pusan National University.)

P2-co.050*

Study of local structural changes in epitaxial T -like phase BiFeO_3 thin films probed by X-ray microdiffraction / 정진석, 위상원, 박정현, 기정연(숭실대학교 물리학과.)

P2-co.051*

Ferroelectric properties of $(1-x)\text{BiFeO}_3$ - BaTiO_3 solid solution films by pulsed laser deposition / PARK Jinsu, LEE Myang Hwan, KIM DA JEONG, HAN SUNG JIN¹, KIM MYONG-HO, KIM WON-JEONG¹, DO DALHYUN², SHALENDRA Kumar³, SONG Tae Kwon(School of Materials Science and Eng., Changwon Nat'l Univ., Gyeongnam 641-773, Korea. ¹Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea. ²Department of Advanced Mat. Eng., Keimyung Univ., Daegu 704-701, Korea. ³Institute of Basic Sciences, Changwon Nat'l Univ., Gyeongnam 641-773, Korea.)

P2-co.052*

Effects of Mn and Zn-Mn co-doping in BiFeO_3 - BaTiO_3 bulk ceramics system / KIM D. J., LEE M. H., PARK J. S., KUMAR S., KIM M.-H., SONG T. K., KIM S. S.¹, KIM W.-J.¹, DO D.², LEE H.-Y.³(School of Mat. Eng., Changwon Nat'l Univ., Gyeongnam 641-773, Korea. ¹Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea. ²Department of Advanced Mat. Eng., Keimyung Univ., Daegu 704-701, Korea. ³Ceracomp Co., Ltd., Cheonan-si, Chungcheongnam-do, Korea.)

P2-co.053*

비탄성 광산란 분광법을 이용한 $\text{PbZr}(1-x)\text{Ti}_x\text{O}_3$ 단결정의 상전이 특성 연구 / 정민석, 고재현(한림대, 전자물리학과.)

P2-co.054

Electromechanical Properties of Bismuth Copper-based Lead Free Piezoelectric Ceramics / TANGE Achiri, KIM Hee Sung, AHN Chang Won, KIM Ill Won(Department of Physics and Energy Harvest-Storage Research Center (EHSRC), University of Ulsan.)

P2-co.055

Structural Characteristics for Phase Transitions of $[\text{N}(\text{CH}_3)_4]_2\text{CuCl}_4$ by ^{13}C CP/MAS NMR and ^{14}N NMR / 김남희, 이승진, 임애란(전주대학교, 탄소융합대학원, ¹전주대학교, 과학교육과, 탄소융합대학원.)

P2-co.056

Ferroelastic Property of tetramethylammonium tetrachlorozincate tetrachlorocuprate, $[\text{N}(\text{CH}_3)_4]_2\text{Zn}_{1-x}\text{Cu}_x\text{Cl}_4$ ($x=0, 0.3, 0.5$, and 1) / 이승진, 임애란(전주대학교, 탄소융합대학원, ¹전주대학교, 과학교육과, 탄소융합대학원.)

P2-co.057

Impedance spectroscopy of dry Nafion / LEE Cheol Eui, HAN junhee, LEE K. W., KIM S. H.¹(Department of Physics, Korea University, Seoul 136-713, Republic of Korea. ¹Faculty of Science Education, Jeju National University, Jeju, Republic of Korea.)

P2-co.058

$(1-x)\text{Li}_2\text{B}_4\text{O}_7-x\text{SrTiO}_3$ 계 유리의 열, 구조 및 광학적 특성 연구 / 최현우, 임영훈¹, 양용석²(부산대학교, 물리학과, ¹세명대학교, 교양과정부, ²부산대학교, 나노에너지공학과.)

P2-co.059

$\text{BaTiO}_3\text{-KNbO}_3\text{-SiO}_2$ 유리의 비등온 상전이 연구 / 최현우, 임영훈¹, 양용석²(부산대학교, 물리학과, ¹세명대학교, 교양과정부, ²부산대학교, 나노에너지공학과.)

2015년 4월 22일 수요일 15:00 - 16:45

장 소 : 포스터발표장

P2-pl.001

PAL-XFEL Inter-Undulator Section용 Girder 위치변화 측정용 WPS 소개 / 최효진, 서광원, 이상봉, 길계환, 김승환, 강흥식(포항가속기연구소.)

P2-pl.002

Study of Thermal Property for Cyclotron Carbon Stripper Foils / 김재홍(기초과학연구원 중이온가속기개발부.)

P2-pl.003*

플라스마의 경계형태와 전류밀도가 Shafranov 편이에 미치는 영향 / 권오진, 최재웅, 최형석(대구대학교 물리학과.)

P2-pl.004*

Design of Echo-Enabled Harmonic Generation(EEHG) using 150MeV Electron Beam / KIM Eun San, LEE Dong Seok, LEE Su An(경북대학교 물리학과 가속기 물리 연구실(KNU).)

P2-pl.005*

Design Study of a Low-emittance Lattice using 5-bend-archomat Lattice / KIM Eun-San, LIU HaoLin(경북대학교 물리학과 가속기 물리연구실(KNU).)

P2-pl.006

Field Measurement Systems at the PAL / 박기현, 정영규, 김동언, 서형석, 이홍기, 정성훈, 오봉기, 이상봉(포항가속기연구소.)

P2-pl.007

Improvement of Transmission Efficiency for KSTAR LHCD System / 성태식, 조무현¹, 남궁원²(포항공과대학교, 물리학과. ¹포항공과대학교, 물리학과&원자력공학과. ²포항가속기연구소.)

P2-pl.008

Determination of optimal e-gun current for clinical applications in electron linac / KIM Sung-woo, RHEE Dong Joo¹, KANG Sang Koo¹, LEE Manwoo¹, LIM Heuijin¹, YI JunGyu¹, LEE Mujiun¹, YANG Gwangmo¹, RO Tae Ik², JEONG Dong Hyeok¹(Dongnam Institute of Radiological and Medical Sciences, Busan / Dong-A university department of new material physics, Busan Korea. ¹Dongnam Institute of Radiological and Medical Sciences, Busan. ²Dong-A university department of new material physics, Busan Korea.)

P2-pl.009*

KONUS Beam Dynamics for IH-DTL / LEE Yumi, KIM Eunsan, LI Zhihui¹, HAHN Garam²(Department of Physics, Kyungpook National University. ¹Sichuan University. ²Division of Heavy Ion Accelerator, Korea Heavy Ion Medical Accelerator.)

P2-pl.010*

홀 방식 플라즈마 추력기의 자기장 및 채널구조에 따른 이온빔 및 성능 특성 연구 / 김호락, 임유봉, 선종호¹, 최원호²(KAIST, 물리학과. ¹경희대학교, 우주과학과. ²KAIST, 물리학과.)

P2-pl.011*

Shock Ion Acceleration Through the Relativistic Transparency in a Destructured Target / KIM Young Kuk, HUR Min Sup, CHO Myung Hoon, SONG Hyung Sun, KANG Tea Yeon, PARK Hyung Ju¹, JUNG Moon Youn¹(UNIST. ¹ETRI.)

P2-pl.012

새로운 마이크로빔용 K-B 거울시스템의 시운전 / 길계환, 최효진, 임재홍(포항가속기연구소.)

P2-pl.013

The PERCIVAL Soft X-ray Detector / HYUN H.J., KIM K.S., RAH S.Y., MARRAS A.¹, WUNDERER C.B.¹, BAYER M.¹, CORREA J.¹, GOTTLICHER P.¹, LANGE S.¹, SHEVYAKOV I.¹, SMOLJANIN S.¹, VITI M.¹, XIA Q.¹, ZIMMER M.¹, DAS D.², GUERRINI N.², MARSH B.², SEDGWICK I.², TURCHETTA R.², CAUTERO G.³, GIURESSI D.³, MENK R.³, PINAROLI G.³, STEBEL L.³, YOUSEF H.³, MARCHAL J.⁴, NICHOLLS T.², PEDERSEN U.⁴, REES N.⁴, TARTONI N.⁴, REZA S.⁵, GRAAFSMA H.¹(Pohang Accelerator Laboratory. ¹Deutsches Elektronen-Synchrotron (DESY). ²Science & Technology Faculties (STFC). ³ELETTRA Sincrotrone Trieste. ⁴Diamond Light Source (DLS). ⁵Mittsweden University.)

P2-pl.014*

Breakdown experiment under low pressurized gaseous condition using a high power millimeter wave gyrotron oscillator. / CHOI Eunmi, KIM Dongsung, KIM Sunggug¹, CHOE Munseok, LEE Ingeun¹, SAWANT Ashwini¹(UNIST, Department of Physics. ¹UNIST, Department of Electrical Engineering.)

P2-pl.015

Error study on KIRAMS HEBT line at KHIMA project / PARK Chawon, NAM Sang Hoon, KIM Geun Beom, AN Dong Hyun, YIM Heejoong, HAHN Garam(Korea Institute of Radiological & Medical Sciences (KIRAMS).)

P2-pl.016

Beam Size Measurements for PLS-II / HUANG Jung Yun, KO Jin-Ju,

KIM Do-Tae, SHIN Seungwhan, LIM Jun, KIM Il-You, KIM Chang-Bum(Pohang Accelerator Laboratory.)

P2-pl.017

Lattice design of post LEBT in RAON accelerator / JIN Hyunchang, JANG Ji-Ho, HONG In-Suk, JANG Hyo-Jae(IFS.)

P2-pl.018*

The Concept of Fast Switching System using Photo-excited Media for Electromagnetic Wave Transmission in Millimeter Wave Regime / CHOI EunMi, CHOE Mun Seok, LEE Kyu-Sup¹, YU Nan Ei²(Department of Physics, School of Natural science, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea. ¹Department of physics and photon science, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea. ²Advanced Photonics Research Institute, Gwangju Institute of Science and Technology (GIST), Gwangju, Korea.)

P2-pl.019*

Beam dynamics and error study of the MEBT beam line in KHIMA / KIM Chanmi, KIM Eun-San, HAHN Garam¹(Department of Physics, Kyungpook National University, Daegu, Korea. ¹Division of Heavy Ion Accelerator, Korea Heavy Ion Medical Accelerator, Seoul 139-706, Korea.)

P2-pl.020

KOMAC 빔향의 설계 및 제작 / 정보현, 김초롱, 김한성, 권혁중, 조용섭(한국원자력연구원, 양성자가속기연구센터.)

P2-pl.021*

중이온 초전도 선형가속기 격자 영향 연구 / 김은산, 권장원(경북대학교 물리학과.)

P2-pl.022

헬륨 RFQ 시스템 빔 광학 설계 / 권혁중, 김한성, 박성균, 조용섭(한국원자력연구원, 양성자가속기연구센터.)

P2-pl.023

Basic tests for L-band cavity BPM / KIM Eun-San, JEONG Ho Yeong, JANG Si Won(Kyungpook National University, Daegu, Korea.)

P2-pl.024*

RF system for 165 MHz CW-mode RFQ system / BAHNG Jungbae, LEE Byoung-Seob¹, KIM Eun-San, YOON Jang-Hee¹, PARK Jin Yong¹, JUNG-WOO Ok¹, MI-SOOK Won¹, SEYONG Choi¹(Kyungpook Nat'l Univ. ¹KBSI.)

P2-pl,025

Design of radio-frequency quadrupole linear accelerator for KBSI accelerator system / 옥정우, 최세용, 이병섭, 윤장희, 박진용, 김성준, 신창석, 홍종기, 방정배, 김주광, 원미숙(한국기초과학지원연구원.)

P2-pl,026*

A study on physical characteristics of a fabricated 9.3 GHz 6 MeV linear accelerator (LINAC) cavities / SHIN Dongwon, KIM Jae hong, HUR Min sup, JEON Seok-Gy(KERI, Applied Electromagnetic Wave Research Center.)

P2-pl,027

레이저 유도가속 이온 특성분석용 톨슨 포물선 분광기에서 누설 자기장 효과 / 최일우, 김이종, 강승우¹, TER-AVETISYAN Sargis², 남창희²(기초과학연구원, 초강력 레이저과학 연구단 / 광주과학기술원, 고등광기술연구소, ¹광주과학기술원, 고등광기술연구소, ²기초과학연구원, 초강력 레이저과학 연구단 / 광주과학기술원, 물리광학과.)

P2-pl,028*

Enhancement of Betatron Oscillation in Laser Wakefield Acceleration by Off-Axis Laser Injection / LEE Seungwoo, LEE Tae-hee, JANG Dogeun, NAM Inhyuk, SUK Hyyong(Gwangju Institute of Science and Technology (GIST).)

P2-pl,029

듀얼 에너지 S-band 가속관 측정 및 튜닝 / 주영우, 송기백¹, Li Yonggui¹, 김유중¹, 이병철¹, 송종현(충남대학교 물리학과, ¹한국원자력연구원.)

P2-pl,030*

Tunable Water Window Undulator Radiation Using the Energy Controllable Electron Beam from the Tapered Plasma / 김진주, 김민석, 남인혁, 허민섭¹, 석희용(광주과학기술원, ¹울산과학기술대학교.)

P2-pl,031*

탄소나노튜브 전계방출원을 이용한 초소형 X-선 튜브의 안정성 향상과 응용 / 김현진, 김현남, 하준목, 조성오(한국과학기술원 원자력 및 양자공학과.)

P2-pl,032

PAL-XFEL 전자석 설계와 자기장 측정 결과 / 서형석, 이상봉, 오봉기, 정영규, 정성훈, 이흥기, 김동연, 박기현, 강흥식, 고인수, 조무현(포항가속기연구소.)

P2-pl,033*

Optics tuning using Q5-scan method in compact Energy Recovery Linac(cERL) / KIM Eunsan, LEE Dongseok, TSUKASA Miyajima¹(KNU. ¹KEK.)

P2-pl.034

KOMAC 빔 인출을 위한 이벤트 타이밍시스템의 테스트 결과 / 송영기, 권혁중, 조용섭(한국원자력연구원.)

P2-pl.035

Design of a drift-tube of C-band CW klystron / HWANG Jihyun, PARK Sungju¹, NAMKUNG Won¹, CHO Moohyun²(Dept. of Physics, POSTECH. ¹Pohang Accelerator Laboratory. ²Dept. of Physics and Division of Advanced Nuclear Engineering, POSTECH.)

P2-pl.036

Magnet power supplies for PAL-XFEL / 정성훈, 박기현, 서형석, 이상봉, 오봉기, 정영규, 이흥기, 김동연, 강흥식, 고인수(포항공과대학교.)

P2-pl.037

동위원소 생산용 100-MeV 양성자 빔수송계 설계 / 김한성, 권혁중, 정보현, 박성균, 조용섭(한국원자력연구원, 양성자가속기연구센터.)

P2-pl.038

Control System for 28 GHz ECR Ion Source / 김성준, 원미숙, 이병섭, 최세용, 옥정우, 박진용, 홍종기, 신창석, 방정배(한국기초과학지원연구원(KBSI).)

P2-pl.039

The electromagnetic design of the phase probe for MEBT of KHIMA project / 황지광, 양태건, 노선영, 한가람, 김창혁, 황원택, 남상훈, 김은산, 김창범², FORCK Peter³(한국원자력의학원. ¹경북대학교, 물리학과. ²포항가속기연구소. ³GSI.)

P2-pl.040

The linear-cut type beam position monitor for synchrotron of KHIMA project / 황지광, 양태건, 노선영, 한가람, 김창혁, 황원택, 남상훈, 김은산, 김창범¹, FORCK Peter²(한국원자력의학원. ¹경북대학교. ²GSI.)

P2-pl.041

KHIMA 싱크로트론 링에 대한 다중빔 입사 방법의 연구 / 임희중(한국원자력의학원.)

P2-pl.042

Beam Extraction Results of 28 GHz ECR Ion Source at KBSI / LEE Byoung Seob, CHOI Seyong, OK Jung-Woo, PARK Jing Yong, KIM Seung Jun, HONG Jonggi, BHANG JeongBae, SHIN Chang Seouk, WON Mi-Sook, YOON Jang-Hee, KIM Hyeun Gyu(Korea Basic Science Institute.)

P2-pl,043

The Development of Small Ion Gun for Analytical Equipment / LEE
Byoung Seob, CHOI Myoung Choul, BHANG JungBae, HONG Jonggi, HONG
Tae Eun(Korea Basic Science Institute.)

2015년 4월 23일 목요일 11:00 - 12:45

장소: 포스터발표장

P3-ap.001*

Capacitance biosensor for real time monitoring of three dimensional cell culture system / YOO Kyung-Hwa, HAN Nalae, LEE Sun Mi¹, KIM Hyung Joon¹, LEE Seo Won(Yonsei University, Dept. of physics.
¹Graduate Program for Nanomedical Science and Technology, Yonsei University.)

P3-ap.002

Capacitance Imaging for Label-free Discrimination of Lipid Region in Atherosclerosis ex vivo using Polypyrrole-Coated Multi Walled Carbon Nanotubes Electrodes / KIM Hyung Joon, HAN Nalae¹, SEO Jin-Won², LEE Sun-Mi, CHOI In-Hong², YOO Kyung-Hwa³(Nanomedical Graduate Program, Yonsei University, Seoul 120-749, Korea. ¹Department of Physics, Yonsei University, Seoul 120-749, Korea. ²Department of Microbiology, Brain Korea 21 PLUS project for Medical Science, Yonsei University, College of Medicine, Seoul 120-752, Korea. ³Department of Physics / Nanomedical Graduate Program, Yonsei University, Seoul 120-749, Korea.)

P3-ap.004*

Temperature dependence of DNA translocation through a glass nanopore functionalized with probe DNA molecules / YOO Kyung-Hwa, LEE Choongman, YOUN Yeoan, KIM Joo Hyoung(Department of Physics, Yonsei University.)

P3-ap.005*

Protein Translocations via Biotin-coated Glass Nanopore / 유경화, 김주형, 윤여안, 이충만(연세대학교 물리학과.)

P3-ap.006

Investigation On The Interaction Between Human U6 RNA And SART 3 Protein Using Glass Nanopore / 윤여안, 김주형, 이충만, 유경화(연세대학교, 물리학과.)

P3-ap.007*

A Hexagonal Periodicity in Cortical Neural Selectivity seeded by Underlying Neural Circuit Structure / PAIK Se-Bum, LEE Changju, JANG Jaeson(Department of Bio and Brain Engineering, KAIST.)

P3-ap.008

Effect of Tilted Fixation Posts in Clearance configuration for Gamma Knife Radiosurgery / LIM SA-HOE, JUNG SHIN, KIM IN-YOUNG,

MOON KYUNG-SUB, JUNG TAE-YOUNG, JANG WOO-YOUL(전남대학교병원 신경외과.)

P3-ap.009*

Hydrodynamic Property Investigation of Long Human Telomere by Fluorescence Correlation spectroscopy / JUNG Sokhyun, KIM Soo Yong, KIM Sok Won¹(KAIST, Department of Physics. ¹University of Ulsan, Department of Physics Energy Harvest Storege Research Center.)

P3-ap.010*

Drug Response of Captured BT20 Cancer Cells and Evaluation of Circulating Tumor Cells from the Breast Cancer Patients / 정진탁, 최문기, 임정택, 이원웅, 이상권(중앙대학교, 물리학과.)

P3-ap.012*

Rebound Synchronization as the origin of information transfer between neuronal layers / PAIK Se-Bum, SAILAMUL Pachaya, KANCHANAKANOK Pornbhussorn, SONG Min, JANG Jaeson(KAIST, Department of Bio and Brain Engineering.)

P3-ap.013*

An Interference Pattern of Cell Mosaics developed by Local Interaction can generate a Periodic Structure of Functional Maps in the Brain / PAIK Se-Bum, JANG Jaeson(Department of Bio and Brain engineering, KAIST.)

P3-ap.014*

Bio-application of functionalized graphenes by different gases plasma-treatment / JUNG ranju, CHOI jinsung, BAIK Ku Youn, GWON hyeseon, CHO jaewon, KIM Yun Ki, ATTRI Pankaj, KIM Un Jeong¹(Kwangwoon Univ. ¹Samsung Advanced Institute of Technology.)

P3-ap.015*

A Biologically Inspired Adaptive Model for Efficient Image Compression / PAIK Se-Bum, LEE Hyeonsu¹, JANG Jaeson(Department of Bio and Brain Engineering, KAIST. ¹Department of Mathematical Sciences, KAIST.)

P3-ap.016

Carbon-Nanotube-Based Flexible DNA Sensors / 이건봉, 이은철(가천대학교 바이오나노학과. ¹가천대학교 나노물리학과.)

P3-ap.017*

The Magnetic Properties of Multilayer Thin-films with Amorphous CoSiB-layer / YIM Haein, JUNG Sol(Sookmyung Women's University, Department of Physics.)

P3-ap.018

Fabrication and characterization of LiCoO_2 thin film cathode materials by Pulsed Laser Deposition / 배종성, 장은경, 정은혁, 김종필, 정의덕(한국기초과학지원연구원, 미래소재표면연구센터.)

P3-ap.019*

Sputtering energy and perpendicular magnetic anisotropy of CoFeB / RHIE Kungwon, KIM Bumjin, KIM Dongseok, JANG Young-Jae, KIM Jimin(Korea University, Department of applied physics.)

P3-ap.020

이온빔 조사에 의한 고분자의 결합구조 변화에 따른 광학적 특성 변화 / 김계령, 김범석, 이재상, 정명환, 이찬영, 여순목(한국원자력연구원.)

P3-ap.021*

Structural and Interfacial Properties of HfO_2 Grown on InAs by Rapid Thermal Annealing / 조만호, 강유선, 강향규, 정광식, 김대경, 송진동¹, 안영서², 김형섭²(연세대학교, 물리및응용물리. ¹KIST, 광전소재연구단. ²성균관대학교, 신소재공학과.)

P3-ap.022*

Control the Crystallization of In-Te Thin Films Using the Sequential Thermal Evaporation of In and Te / 조만호, 채지민, 최혜진, 정광식, 박한범, 황수빈(연세대학교 물리학과.)

P3-ap.023*

Real Time Analysis Of Vanadium Oxidation Process With Ambient Pressure XPS / 김건화, 윤준석¹, 양혁준², 임호준², 이형철, 정창길³, 윤형중⁴, 정범균⁵, CRUMLIN Ethan⁵, 이주한⁴, 주홍렬¹, 문봉진(광주과학기술원, 광공학응용물리학과. ¹연세대학교, 물리학과. ²광주과학기술원. ³광주과학기술, 광공학응용물리학과. ⁴한국기초과학지원연구원. ⁵ALS, Lawrence Berkeley National Laboratory.)

P3-ap.024

산화 실리콘 박막에서 알루미늄 유도에 의한 결정질 실리콘의 형성 / 이남경, 윤종환(강원대학교, 물리학과.)

P3-ap.025

Indium Molybdenum Oxide 박막내 Mo 농도에 따른 일함수와 전기적 및 광학적 특성 변화 / 전지아, 오규진, 김은규(한양대학교, 물리학과.)

P3-ap.026

Hybrid IBSD(Ion Beam Sputter Deposition)공정에 의한 PC소재의 Cr 코팅 밀착력 특성에 관한 연구 / 이재상, 김범석(한국원자력연구원 양성자가속기연구센터.)

P3-ap.028*

Measurement of temperature-dependent thermal conductivity in antimony telluride thin film with a high electronic contribution / CHO sang-hyeok, PARK no-won, LEE won-yong, PARK tae-hyun, PARK sang-in, LEE sang-kwon(Chung-Ang University, Department of Physics.)

P3-ap.029

High Efficiency Solution Processed Quantum Dot Light-Emitting Diodes with PANI:PSS Hole Transport Layer / PARK Young Ran, SHIN Koo¹, HONG Young Joon²(Graphene Research Institute, Sejong University. ¹Department of Chemistry and Graphene Research Institute, Sejong University. ²Department of Nanotechnology and Advanced Materials Engineering, Hybrid Materials Research Center, and Graphene Research Institute, Sejong University.)

P3-ap.030*

Characterizations of quantum-dot light emitting diodes with Perchlorate-doped PEDOT:PEG / LEE Sang Moo, CHO Jae Eun, KANG Seong Jun(Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University.)

P3-ap.031

Comparison of the Electronic Properties of Methylbenzenethiol versus Benzenedithiol in PEDOT:PSS Electrode Molecular Junctions / 정인호, 장연식, 황왕택¹, 정현학¹, 이택희¹, 송현욱(경희대학교 응용물리학과. ¹서울대학교 물리천문학부.)

P3-ap.032

직류와 교류 전압을 인가한 유기 발광 소자의 발광 특성 연구 / 서지동, 오정은, 조호근, 김태완(홍익대학교 정보디스플레이공학과.)

P3-ap.033

Au-ZnO 나노복합체의 국부화된 플라즈몬 효과를 이용한 유기발광소자의 효율 향상에 관한 연구 / 이용훈, 김대훈, 김태환(한양대학교 전자통신컴퓨터공학.)

P3-ap.034

정공주입층 MoO₃가 유기 발광 소자의 특성에 미치는 효과 / 오정은, 서지동, 조호근, 김혜림, 한원근, 김태완(홍익대학교, 정보디스플레이공학과.)

P3-ap.035

Plasmonic organic solar cells using carbon-coated copper nanoparticles / 유지하이, 이은철(가천대학교 바이오키나노학과. ¹가천대학교 나노물리학과.)

P3-ap.036*

Study of the charge injection and trapping mechanism of organic semiconductor devices by optical second harmonic generation measurement / 복문정, 대구찌 다이¹, 이혜정², 송영석², 이와모토 미쓰마사¹, 임은주³(단국대학교, 응용물리학과. ¹동경공업대학, 물리전자공학과. ²단국대학교, 파이버 시스템 공학과. ³단국대학교, 과학교육학과, 응용물리학과.)

P3-ap037

Study of organic semiconductor device characteristics by proton beam irradiation / 임은주, 김민지¹, 복문정², 이충석¹, 조성집¹, 김진솔²(단국대학교, 과학교육학과, 응용물리학과. ¹단국대학교, 융합화학공학과. ²단국대학교, 응용물리학과.)

P3-ap.038

Study of carrier transport of TIPS-pentacene organic semiconductor device by using EFISHG and CMS measurements / 임은주, 이와모토 미쓰마사¹, 다이다 구치¹, 조성집², 이충석²(단국대학교, 과학교육과. ¹도쿄공업대학, 물리전자공학과. ²단국대학교, 융합화학공학과.)

2015년 4월 23일 목요일 11:00 – 12:45

장소: 포스터발표장

진행위원: [자성체] 이은철(가천대)

P3-co.001*

비대칭적 자구벽 이동현상을 이용한 거대 Dzyaloshinskii-Moriya 상호작용 측정기 / 김덕호, 유상철, 김대연, 민병철¹, 최석봉(서울대학교, 물리천문학부, ¹한국과학기술연구원.)

P3-co.002*

Antisymmetric orbital angular momentum based Hamiltonian analogous to spin based Dzyaloshinskii-Moriya Hamiltonian / KWON Junyoung, JUNG Wonsig¹, KIM Changyoung(Yonsei University, Institute of Physics and Applied Physics. ¹Pohang Accelerator Laboratory, Pohang University of Science and Technology.)

P3-co.003*

원편광 빛의 광자기 효과를 이용한 스핀-궤도토크 측정 / 윤상준, 문준, 황현석, 최석봉(서울대학교, 물리학부.)

P3-co.004*

Distinct magnetic-domain-pattern induced by Dzyaloshinskii-Moriya interaction / 김대연, 김덕호, 문준, 최석봉(서울대학교 물리학과.)

P3-co.005*

금속 산화물 하이브리드 다층박막구조에서 마그네타이트 박막의 에피성장에 대한 연구 / 국지현, 배유정, 이년종, MICHEL ANNY¹, 김태희(이화여자대학교 물리학과, ¹Département de Physique et Mécanique des Matériaux Institut P¹.)

P3-co.006*

Controllable Magnetic Coercivity in Double-perovskite Y₂CoMnO₆ Single Crystals / 최환영, 오상협, 문재영, 김미경, 오동건, 이나라, 최영재(연세대학교 물리학과.)

P3-co.007*

Efficient Spin Injection and Detection in a Perpendicularly Magnetized [CoSiB/Pt] Multilayer Device / NOH Hwayong, KHALIL H. M. W., KIM Y. K., KIM T. W.(Sejong University.)

P3-co.008*

Control of a chaos in a dynamic formation of magnetic vortex structures / HAN Hee-Sung, LEE Su-Seok, JUNG Dae-Han, IM Mi-Young¹, HONG Jung-Il², FISCHER Peter¹, LEE Ki-Suk(School of Materials Science

and Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Republic of Korea. ¹Lawrence Berkeley National Laboratory, USA. ²Daegu Gyeongbuk Institute of Science and Technology, Daegu, Korea.)

P3-co.009*

Thickness Dependence of a Current-Driven Domain Wall Motion in Perpendicularly Magnetized Nanostripe / 정대한, 이기석(School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Republic of Korea.)

P3-co.010*

Magnet-spring oscillator에 의해 코일에 유도되는 전류측정 / 이재웅, 남충희(한남대학교 광전자물리학과. ¹한남대학교 광전자물리학과, 광센서공학과.)

P3-co.011

Effects of Oxygen Doping on the Intrinsic Magnetism of ds-DNAs / LEE Chang Hoon, KWON Young-Wan¹(Dept. of Biochemical & Polymer Engineering, Chosun University, Gwangju 501-759, Korea. ¹Dept. of Chemistry, Korea University, Seoul 136-701, Korea.)

P3-co.012

Anomalous Diamagnetic Response of ds-DNA with ppm Amount of Paramagnetic Transitional Metal Ions / LEE Chang Hoon, KWON Young Wan¹(Dept. of Biochemical & Polymer Engineering, Chosun University, Gwangju 501-759, Korea. ¹Dept. of Chemistry, Korea University, Seoul 136-701, Korea.)

P3-co.013

Investigation of HoB₄ by using ¹¹B NMR Measurements / KANG Kihyeok, KIM Junghoon, LEE Moohee, KIM J. Y.¹, CHO B. K.¹(Konkuk University, Department of Physics. ¹GIST, Department of Materials Science and Engineering.)

P3-co.014

Mechanical forces in magnetic solids with two-state systems / KIM Gwang-Hee(Dept. of Physics, Sejong University, Seoul, South Korea.)

P3-co.015

Anomalous spin dynamics of coupled spin-tetramer system CuSeO₃ / LEE WonJun, LEE Suheon, CHOI Kwang-Yong, VAN TOL Johan¹, OZAROWSKI Andrzej¹, KUHNS Philip L¹, REYES Arneil P¹, BERGER Helmuth²(Department of Physics, Chung-Ang University, Seoul 156-756, Republic of Korea. ¹National High Magnetic Field Laboratory, Florida State University, Tallahassee, Florida 32310, USA. ²Institute of Condensed Matter Physics, EPFL, CH-1015 Lausanne, Switzerland.)

P3-co.016

Magnetic and electric bias dependence of switching probability in MgO based spin torque magnetic tunnel junction for random binary code generator / 박승영, 이상혁¹, 정구열², 민병철², 김동현³, 조영훈 (한국기초과학 지원연구원, 스핀공학물리연구팀. ¹충북대학교, 물리학과 ; 한국기초과학 지원연구원, 스핀공학물리연구팀. ²한국과학기술연구원, 스핀융합연구단. ³충북대학교, 물리학과.)

P3-co.017

Magnetic Easy Axis Of Ce-based Heavy-fermion Compounds (CeAuSb2 and CeCuSb2) / JANG JaeKyung, RHEE JooYull(Sungkyunkwan university, department of physics.)

P3-co.018

Nonlinear magnetodielectric effect driven by rare-earth magnetism in Gd₂NiMnO₆ / S. H. Oh, H. Y. Choi, J. Y. Moon, M. K. Kim, N. Lee, Y. J. Choi, Y. Jo¹(Yonsei University. ¹Korea Basic Science Institute.)

P3-co.019

Crystal Growth and Single-Crystal Structures of (CH₃)₂NH₂CuCl₃ / PARK Garam, OH In-Hwan, PARK J. M. Sungil, HONG Chang Seop¹, LEE Kwang-Sei²(Korea Atomic Energy Research Institute, Neutron Science Division. ¹Korea University, Department of Chemistry. ²Inje University, Department of Nano Science & Engineering.)

P3-co.020

The multiferroic properties of a single phase Ba_{0.9}La_{0.1}Ti_{0.9}Fe_{0.1}O₃ / KIM deok hyeon, LEE min young, JO han yeol, YOO pil sun, LIU chunli, LEE bowha(Hankuk University of Foreign Studies, Department of Physics and Oxide Research Center.)

P3-co.021

NiFe 박막의 표면 형상과 박막두께 의한 자기 이방성의 변화 / 기상훈, 김병건, 정웅현, 도중희(경북대학교, 물리학과.)

2015년 4월 23일 목요일 11:00 - 12:45

장소: 포스터발표장

P3-op.001

ICF(IR cut-off filter)의 분광특성 분석에 따른 광학 영상 해석 / 김재범, 탁상준, 최영정, 남궁명, 정재락, 신명근, 송영호¹, 박지수¹(옵트론텍, 광전자연구소, 옵트론텍, 광전자연구소, ¹한국광기술원, 차세대광원응용연구센터.)

P3-op.002

Synthesis of size-tunable carbon dots using silicon carbide / YOO SUNGHO, CHO SUNGOH, HA JUNMOK, CHO JONGHOI¹(KAIST, Department of Nuclear and Quantum Engineering, ¹KAIST, Department of Physics.)

P3-op.003*

Numerical Analysis of Temperature Distribution in Diode-end-pumped Solid State Laser Configuration / 김지원, 황정구, 김동준(경기도 안산시 상록구 사3동 한양대학교 ERICA 응용물리학과.)

P3-op.004*

야간 운전용 눈부심 황색색상렌즈의 청색광 차단 성능에 관한 연구 / 양석준, 황민, 육주성, 최은정(건양대학교 안경광학과.)

P3-op.005

Tailoring Plasmonic Field Of Nano-Antenna Under Few Cycle Laser Pulse / ZIAUL Hoque, 최성호, MARCELO Ciappina¹, 김동언, 김승철(Department of Physics, Center for Attosecond Science and Technology, Pohang University of Science and Technology, Pohang, 790-784, South Korea, Max Planck Center for Attosecond Science, Max Planck POSTECH/KOREA Res. Init. ¹MaxPlanck Institute Of Quantum Optics, Germany.)

P3-op.006*

(6,4)와 (6,5) 단일벽 탄소 나노 튜브에서 관측된 이중 방사형 호흡 진동모드들 / 임용식, 신성일, 주태하(건국대학교 나노전자기계공학과, ¹포항공대 화학과.)

P3-op.007

고리형 광섬유 공진기의 복굴절성을 이용한 레이저 주파수 무변조 안정화 방법 / 나민수, 윤태현(고려대학교 물리학과.)

P3-op.008*

레이저 유도 양성자 가속 과정에서 발생하는 레이저 스펙트럼의 파장 변이 / 이서근, 김이중¹, 최일우¹, 남창희(기초과학연구원, 광주과학기술원 물리광학과, ¹기초과학연구원, 고등광기술연구소.)

P3-op.009

다층대기에서의 레이저빔 파면보정 / 권성욱, 안용진, 박승규, 백성훈(한국원자력연구원.)

P3-op.011

레이저빔 파면보정장치에서의 스트렐비 보정방법 / 안용진, 권성욱, 박승규, 백성훈(한국원자력연구원.)

P3-op.012

광학 위상 지연자를 이용한 위상 안정화 기법 / 최은서, 이승석, 김주하, 엄태중¹(조선대학교 물리학과, ¹광주과학기술원 고등광기술연구소 나노바이오광학연구실.)

P3-op.013

Edge-type BLU용 도광판(LGP)의 산란패턴 설계와 광학적 특성 분석 / 박소희, 신용진(조선대학교 자연과학대학 물리학과.)

P3-op.014

모서리에 위치한 4-LED 광원과 패턴에 따른 LGP 성능 향상을 위한 전산모사 / 박소희, 안태용, 신용진(조선대학교 자연과학대학 물리학과.)

P3-op.015

적응광학장치를 이용한 다른 파장에서의 파면보정 / 권성욱, 안용진, 정진만, 백성훈(한국원자력연구원.)

P3-op.016*

근적외선 파장에서 조정 가능한 Epsilon-Near-Zero 산화인듐주석 박막의 완전흡수 / 윤준호, 바드샤, 김태영, 전영철, 황보창권(인하대학교, 물리학과.)

P3-op.017

대면적 Flat-type 조명시스템에서 균일도 향상을 위한 LED 및 LGP의 최적화 / 신용진, 박소희(조선대학교, 물리학과.)

P3-op.018

Dynamic Polarization modes Manipulating Platform Realized with Jones Vectors in Mathematica / YUN Hee-Joong, CHOI Yongdae¹, LEE Hyunhee¹(KISTI, ¹Mokwon University.)

P3-op.019*

어드미턴스 매칭 방법을 이용한 2-방향 ITO 완전 흡수 박막 설계 및 분석 / 김태영, 윤준호, 설주환, 함원규, 이선영, 황보창권(인하대학교, 물리학과.)

P3-op.020

CdSe/CdS/ZnS Core/shell/shell 양자점 발광소자의 유기물 호스트 물질

에 따른 효율 변화에 대한 연구 / 전영표, 김태환(한양대학교, 전자컴퓨터통신공학과.)

P3-op.021

상호 작용이 가능한 3차원 디스플레이 기술 / KIM Youngmin, HONG Sunghee, HONG Jisoo, KANG Hoonjong(Korea Electronics Technology Institute.)

P3-op.023*

모형안(Human eye-model)에서 안경렌즈의 정간거리와 경사각의 차에 따른 상의 질 비교 / 양석준, 육주성, 황민, 김창진, 최은정(건양대학교 안경광학과.)

P3-op.024*

LED의 색온도에 따른 청색파장 비율 변화에 관한 연구 / 양석준, 육주성, 황민, 손영현, 최은정(건양대학교 안경광학과.)

P3-op.025*

청색광 차단렌즈의 농도에 따른 투과율이 이미지의 질에 미치는 영향 / 양석준, 육주성, 황민, 최은정(건양대학교 안경광학과.)

P3-op.026*

시판되는 안질환 증상완화용 렌즈의 광학적 특성에 대한 연구 / 양석준, 김창진, 황민, 육주성, 손영현, 최은정(건양대학교 안경광학과.)

P3-op.027

초고속 전자 회절 연구를 위한 극초단 자외선 펄스 발생 및 최적화 / 한병현, 백인형¹, 조재흥², 정영욱¹, VINOKUROV Nikolay¹(한국원자력연구원, 한남대학교 물리학과, ¹한국원자력연구원, ²한남대학교 물리학과.)

P3-op.028*

펄스초 전자빔 길이 측정 장치를 위한 고주파 힘 공동 개발 / 박선정, 김현우, 배상윤¹, 문정호¹, 장규하¹, 정영욱¹, Nikolay A. Vinokurov¹, 김은산(경북대학교, 물리학과, ¹한국원자력연구원, 양자빔기반방사선연구센터.)

P3-op.029

DC pulse sputter를 이용하여 reactive 방식으로 제작한 적외선 차폐 기능을 갖는 스마트 윈도우용 투명 전도성 필름 개발 / 이동훈, 서문석, 박은미, 한건희¹, 조은선¹, 하인호¹, 김혜진¹(전자부품연구원, ¹신진퓨처스필름.)

P3-op.031

High power, High Repetition Rate, CEP Stabilized OPCPA System / 이연, PRINZ stephan¹, HAEFNER matthias¹, TEISSET catherine yuriko¹, BESSING robert¹, MICHEL knut¹, GENG xiao tao, 김승철, 김동언, METZGER thomas, SCHULTZE marcel(Department of Physics, Center for Attosecond Science and Technology, Pohang University of Science and Technology, Pohang, 790-784,

South Korea. ¹TRUMPF Scientific Lasers GmbH + Co. KG, Feringastr. 10a, 85774 Unterföhring, Germany.)

P3-op.032*

Extended Drude Model Analysis Of HOPG(Highly Ordered Pyrolytic Graphite) / HWANG jungseek, JUNG eilho(성균관대학교 물리학과.)

P3-op.033

Thermal Depolarization Loss Calculation Including Bi-focusing Effect in Double-pass Nd:YAG Amplifier / 정지훈, 조세례요한, 김태신, 유태준(한동대학교, 첨단그린에너지환경학과.)

P3-op.034*

Conformal metal film on AAO structure for surface plasmon resonance excitation / SHIN Jonghwa, NAM Sang Hyeon(한국과학기술원.)

P3-op.035

Simulation study for the generation of ultrafast magnetic field normal to surface with nano concentric rings / SUNGHO Choi, SEUNGCHUL kim, DONGEON kim(Department of Physics, Center for Attosecond Science and Technology.)

P3-op.036

Simulation of Optically Induced Current in Metal under Ultrafast Laser Pulse / KIM Dasol, KIM Dongeon, LEE Jaedong¹(Department of Physics, Center for Attosecond Science and Technology, Pohang University of Science and Technology, Pohang, 790-784, South Korea. ¹Department of Emerging Materials Science, DGIST, Daegu 711-873, Republic of Korea.)

P3-op.037*

유전체 코팅을 통한 LED조명의 연색지수 및 효율 향상에 관한 연구 / 김훈, 이상일, 황보창권(인하대학교, 물리학과.)

P3-op.038*

빔 공간 간섭효과를 제거하기 위한 빔균질 광학계 설계 / 김태신, 홍경희, 유태준(한동대학교, 첨단그린에너지환경학과.)

P3-op.039*

Critical Coupling Coherent Perfect Absorption in Metasurface of Silver / 바드샤, 윤준호, 김태영, 황보창권(인하대학교, 물리학과.)

P3-op.040

Development and Characterization of Dual VMI / 김현국, 김현국(부산대학교.)

2015년 4월 23일 목요일 11:00 - 12:45

장소: 포스터 발표장

P3-pl.001*

Measurement of Electron Temperature and Density in KSTAR Using Thomson Scattering Modified Lookup Table and Fitting Method / OH T.-s., KIM K.H., LEE J.H.¹, OH S.¹, JANG S.¹, BAWA'ANEH M. S.², SCANNELL R.³, GHIM Y.-c.(Department of Nuclear and Quantum Engineering, KAIST, Daejeon, Korea. ¹National Fusion Research Institute, Daejeon, Korea. ²Department of Applied Mathematics and Sciences, Khalifa University, UAE. ³Culham Centre for Fusion Energy, Culham Science Centre Abingdon, Oxfordshire OX14 3DB, United Kingdom.)

P3-pl.002

The multichord motional Stark effect diagnostic in KSTAR / CHUNG Jinil, KO J., JASPERS R. J. E.¹, SCHEFFER M.¹, LANGE G.¹, MESSMER M.¹, DE BOCK M. F. M.²(National Fusion Research Institute. ¹Eindhoven Univ. of Tech. ²ITER org.)

P3-pl.003

Characteristics of H-mode Transition Measured by Two-Dimensional Beam Emission Spectroscopy in KSTAR / NAM Yongun, ZOLETNIK Sander¹, LAMPERT Mate¹(National Fusion Research Institute. ¹Wigner RCP.)

P3-pl.004*

Simulation of Sawtooth by Electron Cyclotron Resonance Heating(ECRH) in KSTAR / 박민호, 변철식, 나동현, 김경진, 나용수(서울대학교 에너지시스템 공학부.)

P3-pl.005*

연X-선 진단계로부터 KSTAR 전자온도 분포 재구성을 위한 인공신경망 연구 / 최원호, 박재선, 장주혁, 이현용, 이승헌, 홍주환, 전태민, 송인우(카이스트, 물리학과.)

P3-pl.006

Poloidal and Toroidal Rotation Characteristics in KSTAR Plasma / KO Won-Ha, LEE H.H., LEE J.H., SEO D.C., IDA K.¹, JEON Y.M., YOON S.W., KWAK J. G., OH Y.K.(National Fusion Research Institute. ¹National Institute for Fusion Science.)

P3-pl.007

Heat Flux Analysis of Misaligned Leading Edges at Divertor / 홍석

호, 김경민, 송재현, NICOLAS Fedorczak¹, 방은남, 김홍택, 이근수, 김학국(국가핵융합연구소, ¹프랑스 국립 원자력 연구소.)

P3-pl.008

Measurement of electron temperature using Thomson scattering and forward modeling of Thomson scattering system in KSTAR / KIM , Keon Hee, OH , T.-s., LEE , J. H.¹, OH , S.¹, JANG , S.¹, BAWA'ANEH , M. S.², GHIM , Y.-c.(KAIST, Department of Nuclear and Quantum Engineering. ¹NFRI. ²Khalifa University, Department of Applied Mathematics and Sciences.)

P3-pl.009

Study of Erosion and Redeposition of Plasma Facing Component In KSTAR Using Optical and Structural Probes / PARK Jun-Woo, SO Hyeon Seob, LEE Hosun, HONG Suk-Ho¹(Kyung Hee University, Department of Applied Physics. ¹National Fusion Research Institute.)

P3-pl.010

Prototype new polychromator system for KSTAR Thomson scattering system / LEE J.H., KO W.H., JEON J.S.¹, HEO K.H.¹, BOG M.G.¹(국가핵융합연구소, ¹(주) 윤슬.)

P3-pl.011*

Study of ECCD driven core instabilities in KSTAR tokamak plasma / 최경현, 윤건수, 남윤범, 이우창¹, 박현거¹, BIERWAGE Andreas¹, 정진현², 배영순², DONNE C.W.³, LUHANN L.C.³(POSETCH. ¹UNIST. ²NFRI. ³UCDAVIS.)

P3-pl.012*

Statistical consideration for two-point measurement of turbulence correlation length and its practical application / KIM Jaewook, GHIM Y.-c.(KAIST, Department of nuclear and quantum engineering.)

P3-pl.013

A Hybrid Envelope-PIC Code for Fast Kinetic Simulations of MIR / 허민섭, 강태연, 권규빈, 조명훈(UNIST.)

P3-pl.014

Using the Ghost-cell Method to Adapt a MHD Code for Tokamak Simulations / JUNG Laurent, YOU K.I., CHO J.¹, KIM C.H.², HA Y.³, RYU D.⁴(NFRI. ¹Chungnam National University. ²Konkuk University. ³Seoul National University. ⁴UNIST.)

P3-pl.015

Design of fully decoupled MIMO-type isoflux shape controller for KSTAR / JEON YoungMu, HAHN Sanghee, EIDIETIS N.W.¹, HYATT A.W.¹, LANCTOT M.¹, MUELLER D², WALKER M.L.¹, KIM Jayhyun, YOON Siwoo, HAN

Hyunsun, WOO Minho, KIM Yeon-Jeong, HUMPHREYS D.A¹(National Fusion Research Institute. ¹General Atomics. ²Princeton Plasma Physics Laboratory.)

P3-pl.016

Analysis of the Coupling Efficiency of Ion Cyclotron Range of Frequency Heating in KSTAR / 김선호, 김성규, 김해진¹, 왕선정¹, 곽종구¹
(한국원자력연구원. ¹국가핵융합연구소.)

P3-pl.017*

In-Out Asymmetry of Turbulence Spreading / CHO Youngwoo, YI Sumin¹, KWON Jaemin¹, HAHM Taiksoo(Dept. of Nuclear Engineering, Seoul National University. ¹National Fusion Research Institute.)

P3-pl.018*

전자공명가열을 이용한 KSTAR 플라즈마 내 불순물 이온 분포 제어 / 홍주환, 이승현¹, 김주형¹, 선창래¹, 이현용, HENDERSON Stuart², 정진현¹, 이상곤¹, 이규동¹, 박건영¹, 이종하¹, 박재선, 송인우, 장주혁, 전태민, 최원호(한국과학기술원. ¹국가핵융합연구소. ²University of Strathclyde.)

P3-pl.019*

ExB shear induced suppression of initially tilted eddies / 최경진, 함택수(서울대학교 원자핵공학과.)

P3-pl.020

Preliminary result of KSTAR LHCD experiment in 2014 and upgrade plan / KIM Jeehyun, WANG S. J., KIM H. J., PARK B. H., BAE Y. S., HILLAIRET J.¹, SUNG T. S.², CHO M. H.³, NAMKUNG W.³(NFRI. ¹CEA. ²Dept of Physics, POSTECH. ³PAL, POSTECH.)

P3-pl.021*

Improvement in NBI Efficiency by modifying equilibrium of VEST / KIM SangKyeun, NA Donghyeon, LEE JeongWon, YOO MinGu, NA YongSu(서울대학교.)

P3-pl.022

플라즈마 붕괴 시 안정화 대향체에서의 전류 측정 / 김흥수, 박준교, 전영무, 한상희, 김경민, 김홍택(국가핵융합연구소.)

P3-pl.023*

Dynamic and Static Permeation of Hydrogen in CuCrZr / BYEON W. J., LEE S. K., SEO H. J., SHIN H. W., KIM H. S., NOH S. J.(Department of Applied Physics, Dankook University, Yongin-si, Gyeonggi-do 448-701, Korea.)

P3-pl.024

열탈착거동분석장치를 위한 유도결합플라즈마 소스의 개발과 기초실험

(Development and Basic Experiment of ICP Plasma Source for Thermal Desorption Spectroscopic System) / 김희수, 이석관, 변우준, 신해원, 서희정, 변재덕, 현준원, 노승정, 김도완¹, 한준희¹, 최동민¹, 이철의¹(단국대학교 죽전 센트로 캠퍼스 응용물리학과, 용인 448-701, ¹고려대학교 안암캠퍼스 물리학과, 서울 136-701.)

P3-pl.025

An efficient strategy for the mitigation of impurity deposition on first mirror in nuclear fusion reactors / 김보성, 김유권, 이현곤¹, 선창래¹, 오수기²(아주대학교, 에너지시스템학과, ¹국가핵융합연구소 (NFRI), ²아주대학교, 물리학과.)

P3-pl.026

Numerical Study for ELM Suppression Experiments under Mixed Non-axisymmetric Fields in KSTAR / PARK G.Y., KIM J.(National Fusion Research Institute.)

P3-pl.027

Change of the toroidal mode number of the edge localized modes during ELM evolution in KSTAR plasmas / LEE Jieun, KIM Minwoo, LEE Jaehyun, YUN Gunsu, PARK Hyungeo¹, LEE Woorchang¹, KO Wonha²(POSTECH, ¹UNIST, ²NFRI.)

P3-pl.028*

Upgrade of 2D Microwave Imaging Reflectometry (MIR) in KSTAR / LEEM Juneek, LEE Jihun, NAM Yoonbum, YUN Gunsu, LEE Woorchang¹, PARK Hyeon.K¹, PARK Hyun², KIM Kangwook², DOMIER C.W.³, LUHMANN.JR N.C.³(POSTECH, Physics, ¹UNIST, Physics, ²KNU, Electronics Engineering, ³UC Davis, Electronics Engineering.)

P3-pl.029

Study on the parity-nonconserving anisotropic spectrum in the drift-alfven model / 안찬용, 민병훈, 김창배(숭실대학교.)

P3-pl.030

Halo Current Measurement during Vertical Displacement Events (VDEs) in KSTAR Tokamak Plasmas / 박준교, 김흥수, 한상희, 김재현, 이규동, 김홍택, 김학근, 박병호(국가핵융합연구소.)

P3-pl.031*

Observation of reduced turbulence scale length by electron cyclotron heating in KSTAR L-mode plasmas / LEE Jihun, LEE Woorchang¹, LEE Juneek, YUN Gunsu, PARK Hyeon K¹, KIM Y.G², PARK H², KIM K.W², DOMIER C. W.³, LUHMANN N. C.³(Pohang University of Science and Technology, ¹Ulsan National Institute of Science and Technology, ²Kyungpook National University, ³University of California at Davis.)

P3-pl.032*

Relative Calibration between the ECEI Channels using the MHD instability / CHOI Minjun J., YUN Gunsu S., CHOE Gyeonghyeon, LEE Woochang¹, PARK Hyeon K.¹, KSTAR Team²(POSTECH, Physics. ¹UNIST, Physics. ²NFRI.)

P3-pl.033

The Excitation of Multiple Mode during the Inter-ELM-Crash Period in KSTAR H-mode Plasma / KIM Minwoo, LEE Jaehyun, LEE Jieun, PARK Hyeon K.¹, YUN Gunsu S., LEE Woochang¹(POSTECH. ¹UNIST.)

P3-pl.034

Fuel Retention Analysis of KSTAR Experiments in 2014 / JUHN June-Woo, SONG J. I., LEE H. M., KIM K. P., SON S. H., KIM J. S., HONG S. H.(National Fusion Research Institute.)

P3-pl.035

Functionality of Multi-Purpose Midplane Manipulator for Plasma-Surface Interaction on KSTAR / SON S. H., HONG S. -H., PARK I. S.¹, KIM D. H.¹, LEE H. Y.², SONG Inwoo², LITNOVSKY A.³, HELWIG M.³, DOUAI D.⁴, FENYVESI A.⁵, NEMETH J.⁶, ZOLETNIK S.⁶, CHUNG C. W.¹, CHOE W.²(NFRI,. ¹HanYang Univ., Department of Electrical Engineering. ²KAIST. ³Institute of Energy and Climate Research (IEK). ⁴CEA. ⁵Institute of Nuclear Research of the Hungarian Academy of Sciences. ⁶Wigner Research Centre for Physics.)

P3-pl.036

ExB Flow Velocity Prediction with Microwave Imaging Reflectometer in KSTAR L-mode Plasmas / LEE W., LEEM J.¹, CHOI M. J.¹, YUN G. S.¹, PARK H. K., KO S. H.², LEE K. D.², KO W. H.², BUDNY R. V.³, WANG W.³, KIM K. W.⁴, DOMIER C. W.⁵, LUHMANN N. C.⁵(UNIST. ¹POSTECH. ²National Fusion Research Institute. ³Princeton Plasma Physics Laboratory. ⁴Kyungpook National University. ⁵University of California at Davis.)

P3-pl.037

Measurements of deuterium Balmer alpha spectrum of KSTAR plasma using obstructing technique / 장유순, 이형호¹, 고원하¹, 오수기² (아주대학교, 에너지시스템학과. ¹국가핵융합연구소(NFRI). ²아주대학교, 물리학과.)

P3-pl.038

Preliminary experimental observations of beam-induced Alfvén eigenmodes in KSTAR / 김정희, 이동렬¹, 김준영², 우민호¹, CHENG C. Z.³(국가핵융합연구소 (NFRI), 과학기술연합대학원대학교 (UST). ¹국가핵융합연구소 (NFRI). ²과학기술연합대학원대학교 (UST). ³National Cheng Kung University, Taiwan.)

P3-pl.039

Heat Flux Measurements using the IRTV in KSTAR / 서동철, 홍석호, 전준우, 박준교(국가핵융합연구소.)

P3-pl.040*

Characterization of the fast-ion loss in KSTAR under the applied magnetic perturbations / KIM Jun Young, KIM Junghee¹, RHEE T. N.¹, YOON S. W.¹, JEON Y. M.¹, ISOBE M², SHINOHARA K.³(Korea University of Science and Technology, Accelerator and Nuclear Fusion Physics Engineering. ¹National Fusion Research Institute. ²National Institute for Fusion Science. ³Japan Atomic Energy Agency.)

P3-pl.041

초음속 분자빔 입사를 이용한 KSTAR 언저리 국소모드 완화 실험 / 이현용, 한상희¹, 이종하¹, 고원하¹, 윤시우¹, 한현선¹, 전준우¹, 김영철, 남용운¹, 이형호¹, 이승현¹, 홍주환, 장주혁, 박재선, 최원호(한국과학기술원, ¹국가핵융합연구소.)

P3-pl.042

Design of W-band ECE radiometer for electron temperature profile measurement at KSTAR / LEE Kyu-Dong(National Fusion Research Institute.)

P3-pl.043

Electron-Impact Excitation Cross Sections and CR Modeling of He I / KWON Duck-Hee, LEE Won Wook(Nuclear Data Center, Korea Atomic Energy Research Institute.)

P3-pl.044

Diamagnetic Flux Evaluation by Toroidal Field Coil Current Measurement in VEST / YANG Jeong-hun, KIM Yoo-Sung, LEE Jeong Won, JUNG Bong-Ki¹, CHUNG Kyoung-Jae, HWANG Yong-Seok(Seoul National University. ¹Korea Atomic Energy Research Institute.)

P3-pl.045*

Time Evolution Of A Plasma Current Distribution During DC Helicity Injection Start-up in VEST / 박종윤, 이정원, 안영화, 이현영, 정봉기¹, 김영기, 정경재, 나용수, 황용석(서울대학교 에너지 시스템 공학부, ¹한국 원자력 연구소.)

P3-pl.046*

Impurity Monitoring using Quadrapole Mass Spectrometer in VEST / 이기현, 이현영, 양정훈, 양성무, 정경재, 나용수, 황용석(서울대학교 원자핵공학과.)

P3-pl.047

Linear Stability and the Eigenmode Structure of Multiple Modes Induced by a Current Density Perturbation in Sawtoothed KSTAR Plasmas / NAM Yoonbum, CHOI Minjun, CHOE Gyuenghyuen, YUN Gunsu, PARK Hyeon Keo¹, JARDIN Stephen²(Pohang University of Science and Technology. ¹Ulsan National University of Science and Technology. ²Princeton Plasma Physics Laboratory.)

P3-pl.048

Developing an MHD Simulator for Tokamaks / 유광일, 정로형, 하영수¹, 김창호², 류동수³, 조정연⁴, 이덕균⁵, 곽규진³, 오동근, 박병호(국가핵융합연구소, ¹서울대학교, ²건국대학교, ³UNIST, ⁴충남대학교, ⁵대구대학교.)

P3-pl.049

Exploration of Extremely Low q_{edge} Regime in KSTAR / 김재현, 인웅균, 박병호, AYDEMIR Ahmet(국가핵융합연구소.)

P3-pl.050

Thermal analysis on the Vacuum Feed-Through using ANSYS / SEON Sang Won, KIM Hae Jin, WANG son jong, LEE yu ho¹, PARK Byoung Ho, YOON Si WOO(NFRI. ¹KAIST.)

P3-pl.051

토카막 플라즈마에서의 총 방식 불순물 주입체계 개발 및 성능 실험 / 송인우, 이현용, 홍석호¹, 이승현, 홍주환, 장주혁, 전태민, 박재선, 최원호(한국과학기술원, 물리학과, ¹국가 핵융합 연구소.)

P3-pl.052

KSTAR 플라즈마 영상 진단을 위한 다중 에너지 영역 연 X-선 배열 진단계 개발 / 장주혁, 이승현¹, 홍주환, 이현용, 김정희¹, 박재선, 전태민, 송인우, 최원호(한국과학기술원, 물리학과, ¹국가핵융합연구소.)

P3-pl.053

Operation Results Of Neutron Activation System During The 2014 KSTAR Campaign / JO Jungmin, CHEON M.S.¹, DANG Jeong-Jeung, LEE Yuna, CHUNG Kyoung-Jae, HWANG Y.S.(Seoul National University, Department of Nuclear Engineering. ¹National Fusion Research Institute.)

P3-pl.054

High Performance Steady State Operation Research in KSTAR / BAE Young-soon, KSTAR teams(국가핵융합연구소.)

2015년 4월 23일 목요일 14:00 - 15:45

장소: 포스터 발표장

P4-ap.001*

Mechanical Properties of High Stress SiN Beam estimated by two Flexural Measurement Technics / KIM Hakseong, MCALLISTER Kirstie, LEE Sangik, LEE Jeonghyeon, PARK Bae Ho, LEE Sang Wook(Division of Quantum Phases & Devices, School of Physics, Konkuk University.)

P4-ap.002*

Dual-broadband metamaterial absorber based on truncated-cone structure / 김영주, 유영준, 이주열¹, 김기원², 이영백(한양대학교 물리학과. ¹성균관대학교 물리학과. ²선문대학교 정보디스플레이학과.)

P4-ap.003*

Symmetry breaking and coupling enhancement in metamaterial absorber / NGUYEN VAN Dung, BUI SON Tung, BUI XUAN Khuyen, YOO Young Joon, LEE Y. P., KIM K. W.¹, RHEE J. Y.², VU DINH Lam³(Department of Physics, Quantum Photonic Science Research Center and RINS, Hanyang University, Seoul, 133-791, Korea. ¹Sunmoon University, Asan, Korea. ²Sungkyunkwan University, Suwon, Korea. ³Institute of Material Science, Vietnamese Academy of Science and Technology, Hanoi, Vietnam.)

P4-ap.004*

Conversion between single/dual bands in metamaterial perfect absorbers at low frequencies / BUI XUAN KHUYEN, BUI SON TUNG, NGUYEN VAN DUNG, YOO Young Joon, KIM Young Ju, LEE Y. P.(Department of Physics, Quantum Photonic Science Research Center and RINS, Hanyang University, Seoul, Korea.)

P4-ap.005*

Liquid crystal displays with carbon nanomaterials as a transparent electrode / SHIN Seung Won, JUNG Yong Un, KIM Ki-Beom, CHOI Suk-Won, KANG Seong Jun(Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University.)

P4-ap.006*

Experimental Investigation on the Decrease in the Quality Factor and Calculation of Mechanical Properties of Quartz Tuning Forks from Analogous Electrical Parameters / ULLAH Naveed, PARK Sang-joon, LEE Yong(Kyungpook National University, School of Mechanical Engineering.)

P4-ap.007*

Phase transition and thinning effect by laser irradiation in MoTe₂

/ 김세라, 조수연¹, 금동훈, 석진봉, 이영희, 양희준(성균관대학교 에너지과학과, 기초과학연구원 나노구조물리연구단, ¹기초과학연구원 나노구조물리연구단.)

P4-ap.008*

유기가스 유입시 다공성실리콘에서 나타나는 광발광 강도변화현상의 원인 분석 / 정다운, 서영호, 함성길, 이상준, 이재준, 김경아, 김나경, 이기원(공주대학교, 물리학과.)

P4-ap.009

Hybrid carbon nanotube yarn bistructured with superconducting NbN layer

/ KIM Jeong-Gyun, KANG Haeyong, LEE Young Hee¹, SUH Dongseok¹(Department of Energy Science, Sungkyunkwan University, Suwon 440-746. Korea. ¹IBS Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Suwon 440-746. Korea.)

P4-ap.010*

Metal-insulator transition effect of well crystallized individual VO₂ microwire

/ LEE Jeonghyeon, PARK Jong Hyuk¹, KIM Hakseong, YOU Young-Gyu, JHANG Sung Ho, LEE Sang Wook(Division of Quantum Phases & Devices, School of Physics, Konkuk University. ¹Electronics and Telecommunications Research Institute.)

P4-ap.011

금속 테이프를 공동권선한 2세대 고온초전도 코일 제작과 특성 / 손명환, 엄범용, 정연우, 심기덕, 성기철, 하동우(한국전기연구원 초전도연구센터.)

P4-ap.012*

Rugate 다공성실리콘 박막내에 주입되는 산화철나노입자의 정량화

/ 이주현, 이재준, 서영호, 함성길, 이상준, 김경아, 정다운, 김나경, 이기원(공주대학교, 물리학과.)

P4-ap.013*

액체 내 고체 표면에 형성되는 기포의 성장과정

/ 김나경, 서영호, 함성길, 이상준, 이재준, 김경아, 정다운, 이기원(공주대학교, 물리학과.)

P4-ap.014*

Self-assembled monolayer organic molecules on Au nanoplate:

New building block of molecular electronics

/ PARK Jeongyoung, JEONG Wooseok, LEE Miyeon¹, LEE Hyunsoo, LEE Hyoban¹, KIM Bongsoo¹(KAIST(IBM), EEWS. ¹KAIST, Chemistry.)

P4-ap.015*

Graphene-WS₂ 배리스터의 스케일링 특성 연구

/ 최두화, 김현철, 이준호,

이한별, 정내봉, 박도현, 정현종(건국대학교 물리학과 양자상 및 소자전공.)

P4-ap.016

고압가스 환경에서의 ZnO 나노와이어와 ZnO 박막의 특성분석 / 강준희, 추형곤(인천대학교 물리학과.)

P4-ap.017*

Metal-Insulator Transistion in Multilayer MoS_2 / PARK MINJI, YOO KYUNG-HWA(Yonsei University, Physics.)

P4-ap.018*

Proton irradiation-induced disordering of InGaAs Quantum Well on GaAs (100) substrates / 최원준, 윤예슬¹, 박민수, 김상현, 양현덕, 장영준²(한국과학기술연구원, 광전소재연구단, ¹한국과학기술연구원, 광전소재연구단 & 서울시립대학교, 물리학과, ²서울시립대학교, 물리학과 & 에너지환경시스템공학과.)

P4-ap.019*

Faraday 효과를 이용한 나노 유체의 자기광학계수 측정 / 황보현, 이재란, 김석원(울산대학교, 물리학과 에너지 하비스트 스토리지 연구소.)

P4-ap.020*

액체 시료에서의 열 렌즈 효과 측정 / 김현기, 이재란, 김석원(울산대학교 물리학과 에너지-하비스트-스토리지 연구센터.)

P4-ap.021*

Plasmon-polariton Damping Effect of Chromium Adhesion Layer on Nanostructured Resonators / 신종화, 이나연(KAIST, 신소재공학과.)

P4-ap.022

Extraordinary optical transmission with Al, Ag, and Au metal-hole array for Infra-Red applications / 조병구, 모우리, 곽희민, 백재영, 김하술(전남대학교 물리학과.)

P4-ap.023*

Study on Localized Surface Plasmon Resonance to Coupled Resonance Transition in Array of Metal Nanoparticles / SHIN JONGHWA, KIM REEHYANG, CHUNG KYUNGJAE(KAIST, Department of Material Science and Engineering.)

P4-ap.024*

나노구조 페로브스카이트 박막 제작 및 특성 연구 / 하나영, 배수연, 여정환(아주대학교 에너지시스템학과 물리학전공.)

P4-ap.025*

Generalized Design of Anisotropic Metamaterial Microlens /
SHIN Jonghwa, CHANG Taeyong(KAIST, Department of Materials Science and Engineering.)

P4-ap.026

Unmixed Spin Hall Angle From Irreversible Process Of Voltage In Ferromagnetic Resonance Spin Pumping / 김상일, 서민수¹, 최연석¹, 조영훈¹, 박승영¹(고려대학교, 신소재공학/한국기초과학지원연구원, 스핀공학물리연구팀, ¹한국기초과학지원연구원, 스핀공학물리연구팀.)

P4-ap.027*

Flexible Multiferroic BiFeO₃ Nanoparticle-embedded Polymer Film / 황지섭, 여창수¹, 유영준, 박상윤¹, 유필선², 이보화², 이영백(한양대학교, 물리학과, ¹서울대학교 차세대융합기술연구원, ²한국외국어대학교, 전자물리학과.)

P4-ap.028

알콜계 가스를 이용한 CoFeB 박막 식각 후 자력특성 변화 연구 / 서민수, 황수민¹, 정지원¹, 배태진², 홍종일², 김상일, 조영훈, 최연석, 박승영(한국기초과학지원연구원, 스핀공학물리연구팀, ¹인하대학교, 화학공학과, ²연세대학교, 신소재공학과.)

P4-ap.029

The study of the perpendicular magnetic anisotropy energy in Pt/CoFeB/Ta structure employing Brillouin light scattering / KANG Seung Ku, MIN SeJune, PARK Kwonjin, CHO Jaehun, YOU Chun-Yeol(Inha University, Department of Physics.)

P4-ap.030

Pt/CoFeB/Ta 박막구조에서 DC증착파워가 자성특성에 미치는 영향 연구 / 강승구, 박권진, 조재훈, 유천열, 민선기(인하대학교, 물리학과.)

P4-ap.031*

Tuning Of Rashba Spin-orbit Interaction In Surface Passivated Undoped ZnO Nanowire / YOO Jung-Woo, MODEPALLI Vijayakumar, JIN Mi-Jin, PARK Jungmin, JO Jun-Hyeon, KIM Ji-hyun, BAIK Jeong Min(UNIST, School of Materials Science and Engineering.)

P4-ap.032

The Origin of The Difference Spin Wave Frequencies at The Pt/Co/AlOx Interface / CHO Jaehun, KIM June-Seo¹, HAN Dong-Soo¹, SWAGTEN Henk J. M.¹, YOU Chun-Yeol(Department of Physics, Inha University, South Korea. ¹Department of Applied Physics, Center for NanoMaterials, Eindhoven University of Technology, Netherlands.)

P4-ap.033*

Dzyaloshinskii-Moriya interactions in amorphous FeZr/CoFeB/MgO multilayers / RHIE Kungwon, KIM Dongseok, NAWAOKA Kohei¹, SUZUKI Yoshishige¹, MIWA Shinji¹, PARK Seung-Young², CHO Jaehun³, YOU Chun-Yeol³, LEE Byung-Chan³(Korea University, Department of applied physics. ¹Osaka University, Graduate school of engineering science. ²KBSI, Spin Engineering Physics Team. ³Inha University, Department of Physics.)

P4-ap.034*

Current induced switching in Transition-metal/Ferromagnetic multilayers / RHIE Kungwon, KIM Jimin, KIM Dongseok, JANG Young-Jae, KIM Bumjin(Korea University, Department of Applied Physics.)

P4-ap.035

Flexible high-sensitive pressure sensor for robot-skin / JUNG MINHYUN, JUNG JUNWON, KIM KYUNGKWAN, KIM TAEHO¹, JEON SANGHUN¹(고려대학교 세종캠퍼스 디스플레이 반도체 물리학과. ¹고려대학교 세종캠퍼스 응용물리학과.)

P4-ap.036

Resonance Spectroscopy for Non-Destructive Testing of Nuclear Fuel Rods / LIM SA-HOE(CNUHH.)

P4-ap.037

Magnetism and Seebeck coefficient of FeGe thin film grown on GaAs (100) / DUONG Anh Tuan, SHIN Yooleemi, NGUYEN Van Quang, NGUYEN Thi Minh Hai, NGUYEN Anh Phuong, PHAM Anh Tuan, CHO Sunglae(University of Ulsan, Physics.)

P4-ap.038

Room-temperature ferromagnetism in ferroelectric PbTi_{1-x}dO₃ nanocrystals: role of Ti vacancies / CHO Sunglae, DUONG Van Thiet, NGUYEN Thi Huong, NGUYEN Thanh Huong, VU Thi Hoa(University of Ulsan, Physics.)

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장소: 포스터 발표장

P4-as.001

Camera System for IceCube Upgrades / BOSE Debanjan, KIM Myoungchul, JEONG Minjin, KIM Jonghyun, KANG Woosik, ROTT Carsten
(Sungkyunkwan University, Physics Department.)

P4-as.002*

자외선/가시광 추적 망원경의 이미지 Readout 방법 및 테스트 결과 / 송인웅, 정수민, 김지은, 김민빈, RIPA Jakub, 이용훈, 홍기한, 김한욱, 이경구, 이직, 박일홍(성균관대학교 물리학과.)

P4-as.003*

X선 우주망원경의 트리거 시스템 검증 / 이용훈, 김민빈, RIPA Jakub, 송인웅, 이경구, 홍기한, 김한욱, 정수민, 이직, 박일홍(성균관대학교, 물리학과.)

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장소: 포스터발표장

진행위원: [표면/계면, 001-037] 문봉진(GIST)

[계산과학, 038-054] 박노정(UNIST)

[바이오/무른물질, 055-068] 홍성철(서울대)

P4-co.001

Visibility and Photoelectron Spectroscopic Characterization of Exfoliated Few-layer NiPS₃ Nanosheets on a Conducting Substrate / KUO Cheng-Tai, NEUMANN Michael, KARUPPANNAN Balamurugan, SHIU Hung Wei¹, PARK Hyun Ju, SINN Soobin, HAN Moonsup², CHEN Chia-Hao¹, KIM Hyeong-Do³, PARK Je-Geun³, NOH Tae Won³(Seoul National University. ¹National Synchrotron Radiation Research Center. ²University of Seoul. ³Seoul National University.)

P4-co.002

ZnSe nanostructures produced by laser ablation / JANG youngrae(KAERI, Neutron Instrument Research Division.)

P4-co.003

Dynamical Properties of Hydrogen in ZnO:H by H₂/Ar Plasma Treatment / PARK Jun Kue, KWON Hyeok-Jung, KIM Han-Sung, KIM Dae-Il, CHO Yong Sub(Korea Multi-purpose Accelerator Complex, Korea Atomic Energy Research Institute, Gyeongju 780-904, Korea.)

P4-co.004

다층 카본나노튜브(MWCNT)의 구조 및 형상 측정기술 표준화 / 김성규, 박현진, 박찬경(포항공과대학교 나노융합기술원, '포항공과대학교 나노융합기술원, 신소재공학과.)

P4-co.005

반도체 Si의 실리사이드 전극 성분 및 두께 측정기술 표준화 / 김성규, 박현진, 박찬경(포항공과대학교 나노융합기술원, '포항공과대학교 나노융합기술원, 신소재공학과.)

P4-co.006

Non-volatile functionalization of 2DEG conductivity at oxide interfaces / BAEK Seung-Hyub(Korea Institute of Science and Technology.)

P4-co.007

Angular Dependence of Exchange Bias in FeMn/Py Bilayers / KIM Ki-Yeon, CHOI Hyeok-Chul¹, YOU Chun-Yeol¹(Korea Atomic Energy Research Institute, Neutron Science Division. ¹Inha University, Department of Physics.)

P4-co.008

Non-locality of graphene Hall bar device with gate voltage /
YOO Jung-Woo, PARK Jungmin, JIN Mi-Jin, MODEPALLI Vijayakumar, JO Junhyeon(UNIST, 신소재공학.)

P4-co.009

Quasi-particle band structures of silicon-germanium core-shell nanowires in GW method / KIM HAN-GYU, CHOI HYOUNG JOON(Department of Physics and IPAP, Yonsei University.)

P4-co.010

Adsorption of low energy Li+ ions on Graphene / 류민태, 성시진, 이 팽로, 김진걸, 박희민, 정진욱(포항공과대학교, 물리학과.)

P4-co.011

Charge Transport in Metal-Molecule-Metal Junctions Probed by Conducting Atomic Force Microscopy / 송현욱, 정인호(경희대학교 응용물리학과.)

P4-co.012

연료전지 공기극 Pt(111) 촉매 반응성에 대한 두께와 응력 효과: 제일원리 계산 / 권오룡, 홍순철(울산대학교, 물리학과.)

P4-co.013

Catalytic activity and OAM in Pt based catalyst / KIM Changyoung, JUNG Jongkeun(Yonsei University.)

P4-co.014

Temperature Dependent Band-Bending on Ge(001) Surfaces / JI-HO Kim, MIN-SEONG Kim, IN-WHAN Lyo(Dept. of Physics, Yonsei University, Seoul 120-749, Republic of Korea.)

P4-co.015

열처리 환경 변화에 따른 산화물 박막의 열전특성 연구 / 엄영호, 황영훈(울산대학교, 물리학과 & EHSRC.)

P4-co.016

Hydrogen Absorption and Structural Analysis of TiZrNi Quasicrystals by adding Pd or V / LEE Sang-hwa, KIM Jaeyong(한양대학교.)

P4-co.017

Optical Properties of CaSrSiO₄:Eu²⁺ Phosphors on Blue LED Chips / KWON Bong-Joon, GANDHI Sakthivel, WOO Hyun-Joo¹, CHO Kyungmi¹, SHIN Dong-Soo², JANG Kiwan¹(Changwon National University,

Research Institute of Basic Sciences. ¹Changwon National University, Department of Physics. ²Changwon National University, Department of Chemistry.)

P4-co.018

Flexible and Translucent Remote Phosphor for White LED Applications – A Vital Role Played by Versatile Mesoporous Silica / GANDHI Sakthivel, KWON Bong-Joon, WOO Hyun-Joo¹, CHO Kyungmi¹, SHIN Dong-Soo², JANG Kiwan¹(Changwon National University, Research Institute of Basic Sciences. ¹Changwon National University, Department of Physics. ²Changwon National University, Department of Chemistry.)

P4-co.019*

Synthesis of ZnO Nanorod/Graphene/ZnO Nanorod Epitaxial Double Heterostructure for Piezoelectric Nanogenerators / 신동명, TSEGE Ermias Libnedengel, 강석희¹, 승완철², 김상우², 김형국³, 홍석원¹, 황윤희³(부산대학교, 나노융합기술학과. ¹부산대학교, 인지메카트로닉스공학과. ²성균관대학교, 신소재공학과. ³부산대학교, 나노에너지공학과.)

P4-co.020*

Direct Growth of Nanostructured Vanadium Oxides by Thermal Evaporation / 오수아, 김기출(목원대학교, 신소재화학공학과.)

P4-co.021*

기상증착법을 이용한 티타늄옥사이드 나노구조의 직접성장 / 이지언, 김기출(목원대학교 신소재화학공학과.)

P4-co.022*

Characterizations of the photodetectors based on InGaZnO and quantum dots / SHIN Seung Won, LEE Kwang-Ho¹, PARK Jin-Seong¹, KANG Seong Jun(Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University. ¹Division of Materials Science and Engineering, Hanyang University.)

P4-co.023*

The origin of the photocurrent in the thin film transistor based on Ge-doped InGaO and quantum-dots / LEE Sang Moo, PARK Si Jin, LEE Kwang Ho¹, PARK Jin-Seong¹, YI Yeon Jin², KANG Seong Jun(Department of Advanced Materials Engineering for Information and Electronics, Kyung Hee University. ¹Division of Materials Science and Engineering, Hanyang University. ²Institute of Physics and Applied Physics, Yonsei University.)

P4-co.024*

미시적 관점에서 ITO 박막의 전기적 특성 변화 / 김지웅, 김혜경, 이민영, 이두용, 이지성, 장윤형¹, 배종성², 이정수³, 박성균(부산대학교, 물리학과. ¹넥스트론. ²한국기초과학지원연구원, 부산센터. ³한국원자력연구원, 중성자과학연구부.)

P4-co.025*

CVD graphene with low dc-resistance engineered by high energy ion irradiation / CHOI E.J, LEE Chul, KIM Jiho, OH Changwon, KIM JooYoun¹, BAE Sukang², KIM Keun Soo³, KIM Sang Jin⁴, HONG Byung Hee⁴(Department of Physics, University of Seoul. ¹School of Electrical and Electronic Engineering, Yonsei University. ²Soft Innovative Materials Research Center, Korea Institute of Science and Technology. ³Department of Physics, Sejong University. ⁴Department of Chemistry, College of Natural Sciences, Seoul National University.)

P4-co.026*

Physical properties of Sn-doped ZnO thin films prepared by an rf-magnetron sputtering method / 김재용, 박주영(한양대학교 물리학과.)

P4-co.027*

Spinodal dewetting of Co thin films grown on sapphire substrate induced by nano-second laser irradiation / 서옥균, 강덕호, 김재명, 손준곤¹, 최정원, 강현철², 노도영¹(광주과학기술원, 신소재공학과. ¹광주과학기술원, 물리 광학과. ²조선대학교, 신소재공학과.)

P4-co.028*

Destructive versus constructive effects of proton irradiation on optical properties of silicon related nanostructures / JEONG Jiwoon, GU Minseon, GUK Yeongju, HAN Moonsup(Department of Physics, University of Seoul.)

P4-co.029*

Drude scattering of CVD-graphene field effect transistor under air condition / YU Kwangnam, KIM JooYoun¹, KIM Jiho, CHOI E. J.(Department of Physics, University of Seoul. ¹School of Electrical and Electronic Engineering, Yonsei University.)

P4-co.030*

Effect of Ambient Gases N₂ and Ar in Post Annealing Process on Strong Luminescence Enhancement of Silicon Nanocrystals via Sensitive Formation of Defect and Interface States / JOO Beom Soo, AHN Hanyeol, PARK Youngju, HAN moonsup(University of Seoul, Department of Physics.)

P4-co.031*

Role of π Orbital Resonance and Molecular Symmetry in Adsorption of Pyridine and Pyrimidine Molecules on Si(5512) / KIM Gyu Hyeong, JEONG Sukmin(Department of Physics and Research Institute of Physics and Chemistry, Chonbuk National University.)

P4-co.032*

방사광 분광법을 이용한 고효율 염료감응 태양전지의 전자구조 연구 / 김현우, 이은숙, 김대현, 신유주¹, 강정수(가톨릭대학교, 물리학과. ¹가톨릭대학교, 화학과.)

P4-co.033*

청결한 Ge (110) 표면과 수소가 덮인 Ge (110) 표면 위에서 탄소 원자 확산에 대한 제일 원리 연구 / 박가람, 정석민(전북대학교, 물리학과.)

P4-co.034*

ARPES Study on Rashba Effect of Ferroelectric Material GeTe / KIM Beomyoung, KYUNG Wonshik, HAN Garam, KIM Changyoung, KIM Yeongkwan¹, DENLINGER Jonathan¹, JOONIL Cha², CHUNG In²(Institute of Physics and Applied physics, Yonsei University. ¹Advanced Light Source, Lawrence Berkeley National Laboratory. ²Graduate School of Nanoscience and Technology, KAIST.)

P4-co.035*

Relation between zero-contrast wavelength and thickness of hexagonal boron nitride flakes / 김동현, 김성조, 유정선, 김종현(충남대학교 물리학과.)

P4-co.036*

다양한 표면 구조를 갖는 anatase상의 TiO₂ 합성 / 조민규, 김기출(목원대학교 신소재화학공학과.)

P4-co.037*

Scanning Tunneling Microscopy Studies on Water-Intercalated CVD Graphene on Mica / HWANG Jin Heui, LEE Hyunsoo, KIM Wondong¹, PARK Jeong Young(Center for Nanomaterials and Chemical Reactions, IBS & Graduate School of EEWS, KAIST. ¹Korea Research Institute of Standard and Science.)

P4-co.038

Synthesis and Optical Properties of Eu-doped BaO₃-B₂O₃-Li₂O Pb-free Glasses / 박종호(진주교육대학교, 과학교육과.)

P4-co.039

Interfacial Magnetic and Electronic Properties of MoS₂-Ferromagnet Contacts / YUN Won Seok, LEE J. D.(DGIST, Department of Emerging Materials Science.)

P4-co.040

Study of Temperature-dependent Multilayer Structures of Thiophene on Si(100) / PARK Jinwoo, LEE Han-Koo¹, SOON Aloysius², YU B.D.³, HONG Suklyun(Graphene Research Institute and Department of Physics,

Sejong University, Seoul 143-747, Korea. ¹Beamline Research Division, Pohang Accelerator Laboratory, Kyungbuk 790-784, Korea. ²Department of Materials Science & Engineering, Yonsei University, Seoul 120-749, Korea. ³Department of Physics, University of Seoul, Seoul 130-743, Korea.)

P4-co.041

Study of Vibrational Modes of Benzene Molecule on Pristine and Oxidized Graphene / PARK Jinwoo, HONG Suklyun(Graphene Research Institute and Department of Physics, Sejong University, Seoul 143-747, Korea.)

P4-co.042

Study of Van der Waals density-functional theory for bulk solids with BCC, FCC, and diamond structures / PARK Jinwoo, YU Byung Deok¹, HONG Suklyun(Graphene Research Institute and Department of Physics, Sejong University, Seoul 143-747, Republic of Korea. ¹Department of Physics, University of Seoul, Seoul 130-743, Republic of Korea.)

P4-co.043*

Influence of Wavefunction Updates in Self-consistent GW Calculations on TiO₂ and SrTiO₃ / HAN Seungwu, KANG Youngho, KANG Gijae(Seoul National University.)

P4-co.044*

Mn₄Si₇ 결정구조의 MnSi₂의 전자구조와 열전특성에 대한 제일원리계산 / 박진식, 권오룡, 임성현, 홍순철, 이주형(울산대학교, 물리학과. ¹광주과학기술원.)

P4-co.045*

Controlling Magnetic Properties of Graphene using Iron Dopant Pair: A First-Principles Study / LEE Sungwoo, YOON Euijoon, LEE Gundoo(Department of Materials Science and Engineering, Seoul National University.)

P4-co.046*

First Principle Study on Structural Properties and Phase Changes of Ge₂Sb₂Te₅ / KIM Cheol-Woon, PARK Hanjin, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University.)

P4-co.047*

Extensive Study on Doped-ZnO Using High-throughput Ab initio Calculation Approach / YIM Kanghoon, LEE Joohee, HAN Seungwu(Department of Materials Science and Engineering, Seoul National University.)

P4-co.048

Gold pseudopotential for quantum Monte Carlo calculations /
SHIN Hyeondeok, KWON Yongkyung(School of Physics, Konkuk University,
Seoul 143-701, Korea.)

P4-co.049

Novel two-dimensional semiconductor β -ZrNCl / KIM Jongmin, YUN
Won Seok, LEE J. D.(DGIST, Department of Emerging Materials Science.)

P4-co.050

Origin of charge puddle of graphene on SiO₂: First principles
study / SHIM Yoonsu(KAIST, Graduate school of EEWS.)

P4-co.051

Crystal Structure Of α -BiFeO₃: A First-Principles Investigation
/ FAYYAZ Ahmad, ISHRAT Naz, RHEE JooYull(Sungkyunkwan university,
department of physics.)

P4-co.052

Ultrafast cooperative dynamics of charge and vibration in
molecular crystal / CHA Woongtak, LEE Jae Dong(DGIST, Department of
Emerging Materials Science.)

P4-co.053

Ab initio Study of Dielectric Function of PbVO₃ Using Density
Functional Theory Calculations / CHA Janghwan, OH Seol Hee¹, JO
William¹, HONG Suklyun(Department of physics and graphene research institute,
Sejong university. ¹Department of physics, Ewha womans university.)

P4-co.054

Study of Half-metallicity in Multi-layer Graphene Nanoribbons
with Distinct Stacking Forms / JEON Gi Wan, LEE Kyu Won, LEE Cheol
Eui(Department of Physics and Institute for Nano Science, Korea University, Seoul
136-713.)

P4-co.055

Study of Mechanism of Unwinding of WRN Helicase Using
Magnetic Tweezers / LEE Mina, UHM Heesoo, HOHNG Sungchul(Seoul
National University.)

P4-co.056

Dynamics of *Saccharomyces cerevisiae* Mph1 Helicase on DNA
Fork Structure via FRET / JUNGE Yongje, HOHNG Sungchul(Department of
Physics and Astronomy, Seoul National University.)

P4-co.057

Inducing the conformational change between the alternative and collapsed form of blood coagulation protein (prethrombin-2) using target molecular dynamics simulation / WU Sangwook(부경대 물리학과.)

P4-co.058

The effect of Nap1L1 on the mechanism of chromatin remodeling by CSB / HOHNG Sungchul, LEE Juyeon(서울대학교.)

P4-co.059*

Nucleosome Remodelling Induced by CHD1 / HOHNG Sungchul, KIRK Jaewon(Seoul National University.)

P4-co.060*

Characterization of Drosha-DGCR8 Complexes in Primary MicroRNA Processing at Single-molecule Level / MYUNG HYUN Jo, TUAN ANH Nguyen¹, YEON-GIL Choi¹, SUNGCHUL Hohng, V. NARRY Kim¹, JAE-SUNG Woo¹(Seoul National University, Department of Physics & Astronomy. ¹Seoul National University, School of Biological Sciences.)

P4-co.061*

Spring-loaded unraveling of a single SNARE complex by NSF in one round of ATP turnover / RYU Je-Kyung, MIN Duyoung, RAH Sang-Hyun, KIM Soo Jin¹, PARK Yongsoo², KIM Haesoo¹, HYEON Changbong³, KIM Homin¹, JAHN Reinhard², YOON Tae-Young(KAIST, Dept. of Physics. ¹KAIST, Grad School of Medical Science & Technology. ²Max-Planck-Institute for Biophysical Chemistry, Dept. of Neurobiology. ³Korea Institute for Advanced Study.)

P4-co.062*

MoS₂ 위에서 온도에 따른 액정의 배향 특성 변화 / 황제준, 김동현, 김성조, 유정선, 김종현(충남대학교, 물리학과.)

P4-co.063

Super-resolution Imaging Of Neuron In Caenorhabditis Elegans With DNA-PAINT / PARK Sangjun, KWON Yeongdae, LEE Junho¹, HOHNG Sungchul(Department of Physics and Astronomy, Seoul National University. ¹School of Biological Science, Seoul National University.)

P4-co.064

Single Molecule Studies on Rad5 / 홍성철, 이우철(서울대학교 물리학과.)

P4-co.065

Single-molecule studies on maltose transport system / HOHNG Sungchul, LEE Jongjin(Department of Physics and Astronomy, Seoul National

University, Seoul, Korea.)

P4-co.066

Single Molecule Studies on T-phi terminator / HOHNG Sungchul, KANG Wooyoung (Seoul National University, Department of Physics.)

P4-co.067

Werner Syndrome protein binds to the replication fork as a tetramer, but turns into a dimer for replication fork regression / SHIN Soochul, HYUN Kwang-Beom¹, LEE Jinwoo, KIM Jaehoon¹, HOHNG Sungchul (Department of Physics and Astronomy, SNU. ¹Department of Biological Sciences, KAIST.)

P4-co.068

Single-molecule assay for UvrD helicase activity / LEE Jong-Bong, LEE Ryangeun, LIU Jiaquan¹, FISHEL Richard² (POSTECH, Department of Physics. ¹The Ohio State University Medical center, Department of Molecular Virology, Immunology and Medical Genetics. ²The Ohio State University, Physics Department.)

2015년 4월 23일 목요일 14:00 – 15:45

장소: 포스터발표장

P4-st.001

Phase Transition in Random Adaptive Walks on Correlated Fitness Landscapes / PARK Su-Chan, SZENDRO Ivan G.¹, NEIDHART Johannes¹, KRUG Joachim¹(The Catholic University of Korea. ¹University of Cologne.)

P4-st.002

Inositol Pyrophosphates Inhibit Synaptotagmin-Dependent Exocytosis / 이태선, 김세윤¹, 윤태영, 박승주¹, 양유수², 이주용³(카이스트, 물리학과. ¹카이스트, 생명공학과. ²KIST. ³성균관대.)

P4-st.003

Simple Double Well Model Explains Multi-modal Integration during Bistable Perception / PAIK Se-Bum, CHOI Woorchul(Department of Bio and Brain Engineering, KAIST.)

P4-st.004

Topological properties of complex networks in structural classification of proteins / 김경식, 민승식(부경대학교, 물리학과.)

P4-st.005

Optimal Investment Conditions for Strategies of Future Prices in Korean Financial Markets / 김경식, 임규성¹, 김수용¹(부경대학교, 물리학과. ¹한국과학기술원, 물리학과.)

P4-st.006

Evolution of popularity of given names / LEE Mi Jin, JO Woo Seong, KIM Beom Jun, BAEK Seung Ki¹(Sungkyunkwan University, Department of physics. ¹Pukyong National University, Department of physics.)

P4-st.007

Coupled Evolutionary Games In Interdependent Networks / 김진호, 김엽¹, 육순형¹(경희대학교 소셜네트워크학과. ¹경희대학교 물리학과.)

P4-st.008

Statistical properties of two interacting soft spheres in a hard spherical pore / KIM Soon-Chul(안동대학교 물리학과.)

P4-st.009

Simulation Study for Magnetic Colloids via Brownian Dynamics / KIM Hyeok, KIM Juin¹, GIM Bopil², YEO Joonhyun(Department of Physics, ¹KAIST, ²KAIST)

Konkuk University. ¹Department of Physics, ROK Air Force Academy. ²Department of Bio and Brain Engineering, Korea Advanced Institute for Science and Technology (KAIST).)

P4-st.010

Field Theoretical Approach using Collective Variables for Brownian Particles in Random Media / LEE Wonsang, YEO Joonhyun
(Department of Physics, Konkuk University.)

P4-st.011

연속적인 적분을 통한 고분자의 분배함수 계산법 / PARK Sojung, KIM Jaeup, KIM Yeongyoon
(Department of Physics, School of Natural Science, UNIST.)

P4-st.012

A Numerical Method for Homopolymer Brushes Grafted to a Sphere with Self-Consistent Field Theory / YONG Dae-seong, KIM Jaeup
(Department of Physics, School of Natural Science, UNIST.)

P4-st.013

Realization of an information engine with a modulating optical trap / LEE Dong yun, PARK Jin Tae¹, PAK Hyuk Kyu¹
(Pusan National University, Department of Physics. ¹UNIST, Department of Physics.)

P4-st.014

Conformational Transition of a Square-Lattice Polymer in Low-Temperature Region / 이재환, 김승연¹, 이주련
(숭실대학교 의생명시스템학부. ¹한국교통대학교 교양학부.)

P4-st.015

First Order Phase Transition line in Spin-1 Blume-Capel Model / KIM Seung-Yeon, KWAK Wooseop¹
(School of Liberal Arts and Sciences, Korea National University of Transportation. ¹School of Department of Physics, Chouson University.)

P4-st.016*

Quantification of Spatial and Temporal Features of Visual Working Memory / PAIK Se-Bum, AN Soyoung
(KAIST, Department of Bio and Brain Engineering.)

P4-st.017*

Modeling the Effects of Sleep Schedules and Medication on Sleep-Wake Dynamics / KIM Soon Ho, HAN Kyungreem, GOH Segun, KIM Jong Won¹, CHOI MooYoung
(Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University. ¹School of Physics and Brain Dynamics Center, The University of Sydney.)

P4-st.018*

Comparing Robustness of Directed Functional Connectivity Measures on the Linearly Mixed Time Series / LEE Heonsoo, WANG Jisung, KIM Seunghwan(포항공과대학교, 물리학과.)

P4-st.019*

Hierarchical trends of world commodities trade flow network / NOBI Ashadun, LEE Jae Woo(Department of Physics, Inha University.)

P4-st.020*

The Effects of Link Density on the Surface Relaxation in Heterogeneous Networks / YOU Hyung-ha, LEE Deok-Sun(Dept. Physics, Inha University.)

P4-st.021*

Robustness of the Metabolic Networks: The Impact of Enzymatic Gene Expression / HA Gyeong-Gyun, LEE Deok-Sun(Dept. Physics, Inha University.)

P4-st.022*

Portfolio selection using connection among companies / 오갑진, 안석원(조선대학교 경영학부.)

P4-st.023*

Interplay of Memory and Activity on Time-Varying Networks / KIM Hyewon, HA Meesoon¹, JEONG Hawoong(Department of Physics, KAIST. ¹Department of Physics Education, Chosun University.)

P4-st.024*

Symmetric distribution in the last digits of prime numbers / KIM Young Jin, KIM Yeseul¹, WEON Byung Mook¹, SON Seung-Woo(Hanyang University, Department of Applied Physics. ¹Sungkyunkwan University, Soft Matter Physics Laboratory, School of Advanced Materials Science and Engineering, SKKU Advanced Institute of Nanotechnology (SAINT).)

P4-st.025*

Heaps' Law and Zipf's Law in Translated Korean Texts / JEONG Seon-Young, KIM Young-Bin, PARK Young-Jae, KIM Young Jin, SON Seung-Woo(Department of Applied Physics, Hanyang University.)

P4-st.026*

What is the source of systemic risk in international financial market? / 오갑진, 김호용, 이효선, 박아영(조선대학교, 경영학부.)

P4-st.027*

Bank network and financial stability / 오갑진, 박아영, 이효선¹(조선대학교, 경영학부, ¹조선대학교 경영학부.)

P4-st.028*

Investigation of Surface Charge Density on Solid-Liquid Interfaces by Modulating the Electrical Double Layer / 박혁규, 문종균¹, 송명원(울산과학기술대학교, 물리학과, ¹기초과학연구원, 첨단연성물질연구단.)

P4-st.029*

성장하는 그물망에서 meme popularity의 임계성 / 박석종, 육순형, 김엽(경희대학교 물리학과.)

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장소 / 포스터발표장

P4-te.001

물리교육에서 나타나는 전구에 대한 문제들에 대한 연구 (II): 전구의 전압과 전류의 계산 방법 / 현동걸, 김두철, 박상우¹(제주대학교, ¹청주교육대학교.)

P4-te.002

다중 고리전선의 전류의 자기작용 관련 실험수업에서 발생하는 문제들에 대한 이론적 분석 / 현동걸, 김두철, 박상우¹(제주대학교, ¹청주교육대학교.)

P4-te.003

SEEC수업 적용사례를 통한 수업 연구 / 정진, 최미정¹(조선대학교, ¹조선간호대학교.)

P4-te.004

통합학급에서의 과학교과의 교수적 수정 / 박종호(진주교육대학교, 과학교육과.)

P4-te.005*

물리 식의 메타적 의미에 대한 범주화 및 이에 따른 교재 분석을 통한 교육적 시사점 도출 / 김민철, 정용욱, 송진웅(서울대학교, 물리교육과.)

P4-te.006

Actual Experiments about Connection of Light Bulbs in Primary School Science / KIM Taekyu(Jeonju National University of Education, Department of Science Education.)

P4-te.007*

두 물체의 충돌 과정 설명에 대한 어려움의 근원 탐색과 해소 방안 모색: 모델기반관점을 중심으로 / 안정곤, 이경호(서울대학교, 물리교육과.)

P4-te.008*

학생들은 왜 과학을 확신하며 어떻게 변화할 수 있는가? 의미론적 관점의 과학교육적 함의 / 이종봉, 이경호¹(서울대학교, 과학교육과, ¹서울대학교, 물리교육과.)

P4-te.009*

Learning Assistant Program 기반 실천적 교과교육과정을 적용한 예비교사와 대학생의 빛에 대한 개념변화 분석 / 문예린, 이지원, 오은주, 김중복(한국교원대학교, 물리교육과.)

P4-te,010*

반성적 저널에 나타난 **Learning Assistant**의 반성적 사고 수준 변화 / 오
은주, 이지원, 문예린, 김중복(한국교원대학교, 물리교육과.)

2015년 4월 24일 금요일 11:00 - 12:45

장소: 포스터 발표장

P5-ap.001

입체각 분석을 사용한 공간 방사선량 측정장치 / 전상준, 김경민, 김종국(한국 원자력의학원, 분자영상연구부.)

P5-ap.002

The Study of Ionic Channel Network Variation Of Nafion by using CSAFM / 권오성, 손병락¹, 이동하¹(계명대학교, 교양교육대학, ¹대구경북과학기술원, 웰니스융합연구센터.)

P5-ap.003

Developing Ultra Mini Proton Exchange Membrane Fuel Cell / 권오성, 최재성¹, 김주곤¹, 이동하¹, PARK Sam²(계명대학교, 교양교육학부, ¹대구경북과학기술원, 웰니스융합연구센터, ²Department of Mechanical Engineering, University of Louisville.)

P5-ap.004

A study on the interaction between time-varying electromagnetic field and droplet at high frequencies / LEE Hee-Jo(Daegu University, Department of Physics Education.)

P5-ap.005

Largely stretchable electrical contact having mechanical and electrical robustness for giant-stroke and high endurance strain sensor / SUH Dongseok, LEE Yourack¹, KANG Haeyong¹, LEE Young Hee(Center for Integrated Nanostructure Physics, Institute for Basic Science (IBS), Department of Energy Science, Sungkyunkwan University, ¹Department of Energy Science, Sungkyunkwan University.)

P5-ap.006

다중박막을 이용한 극초단 고출력 테라헤르츠파 발생 및 측정 / 조정상, 정영욱, 박성희, 이기태, 장규하, 백인형, 김경남, 김하나, 류우제, GUDKOV Boris, MIGINSKY Sergey, NIKOLAY Vinokurov(한국원자력연구원.)

P5-ap.007

제논 가스를 이용한 X-ray 세기 측정 장치 개발 / 황선민, 김명진, 김성한, 엄인태, 이채순, 김진홍, 박상한, 김승남, 권순남(포항공속기연구소.)

P5-ap.008

Integrated Energy Devices for Wearable Activity Monitors / LEE Minbaek, JUNG Sungmook¹, KIM Dae-Hyeong¹(Dept. of Physics, Inha University.)

¹School of Chemical and Biological Engineering, Seoul National University.)

P5-ap.009

방사능발광과 광자극발광의 발광량/발광스펙트럼 통합측정장치 개발 / 박창영, 정기수, 장인수¹, 이정일, 김장렬¹(경상대학교, 물리학과. ¹한국원자력연구원.)

P5-ap.010

Fabrication of Si-nano Pillar Array through Pt Nano-droplet Mask using Inductively Coupled Plasma Etching / 임기영, 김종옥, 이훈기(전북대학교 반도체화학공학부, 반도체물성연구소.)

P5-ap.011

나노구조 엑스선 회절격자 설계를 위한 복합구조 엑스선 발생장치의 실효에너지 계산 방법 / 김인수, 강원구, 이현우, 김은광, 한범수, 강창무¹, 안치원², 우혜영², 오오성³, 김영주³, 이승욱³(이비테크(주). ¹한국과학기술정보연구원. ²나노종합기술원. ³부산대학교 기계공학부.)

P5-ap.012

Local doping of graphene devices by selective hydrogen adsorption / PARK MIN, YUN Yong Ju¹, LEE Minwoo², JEONG Dae Hong², JUN Yongseok¹, PARK Yung Woo³, KIM Byung Hoon⁴(서울대학교, 나노융합학과. ¹건국대학교, 융합신소재공학과. ²서울대학교, 화학교육학과. ³서울대학교, 물리천문학부. ⁴인천대학교, 물리학과.)

P5-ap.013

Methods to reduce image blurring towards the regions of the nonoverlapped electrochromic layer / AH Chil Seong, SONG Juhee, CHO Seong M., KIM Tae-Youb, RYU Hojun(Smart I/O Platform Research Department, Electronics and Telecommunications Research Institute.)

P5-ap.014

Current Induced Switching in Pt/Co/Pt Multilayer / RHIE Kungwon, JANG Youngjae, KIM Dongseok, KIM Jimin, KIM Bumjin(Department of Display and Semiconductor Physics, Korea University, Sejong, Korea.)

P5-ap.015

Room Temperature Hydrogen Storage in 2-Dimensional Potential Well Using Graphene Oxide / 김태형, 이태훈¹, 이영희¹(IBS Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Suwon 440-746. Korea. ¹IBS Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University, Suwon 440-746. Korea. ³Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea.)

P5-ap.016

Metalorganic Chemical Vapor Deposition을 이용하여 성장한 GaN 박막의 결함 분석 기술 개발 / 박경호, 조주영, 김가희, 강대훈, 최영수, 박덕수, 박원규(한국나노기술원.)

P5-ap.017

Atmospheric Synthesis Of ZnO Nanostructures In Domestic Microwave Oven / ABIDOV Amir, ALLABERGENOV Bunyod, XIAO Feiyi, CHU Cuili, JIN Xing, 김용배¹, 박승일², 정순욱, 김성진(금오공과대학교, 신소재공학과. ¹구미전자정보기술원. ²(주)석원, 기술연구소.)

P5-ap.018

Infrared Microscope Study of Mechanically Exfoliated 2H-Phase MoTe2 Field-Effect Transistor / YUN Yoojoo, KANG Haeyong¹, LEE Young Hee, SUH Dongseok(Center for Integrated Nanostructure Physics, Sungkyunkwan University. ¹Department of Energy Science, Sungkyunkwan University.)

P5-ap.019

위그너 수송 방정식을 이용한 사이리스터 분석 / 이준호, 신민철(한국과학기술원.)

P5-ap.020

위그너 함수를 이용한 다중 접합 소자 해석 / 이준호, 신민철(한국과학기술원.)

P5-ap.021

Hall sensor performance of CVD-grown graphene put on CVD-grown hexagonal boron nitride substrate / KIM JoongGyu, PARK Ji-Hoon¹, NGUYEN Van Luan¹, LEE Young Hee¹, SUH Dongseok¹(Department of Energy Science, Sungkyunkwan University, Suwon 440-746. Korea. ¹Center for integrated nanostructure physics, Sungkyunkwan University, Suwon 440-746. Korea.)

P5-ap.022

Anomalous Behavior In Magneto Transport Measurements In Liquid-gated Pt Thin Films / MIN Kil-joon, CHAE Dong-Hun, JOO Sung-jung, KIM Taeyueb¹(한국표준과학연구원. 한국과학기술연구원, 고려대학교.)

P5-ap.023

Edge functionalization of graphene mesh by Electrodeposition for hydrogen detection / 김수한, 이원우, 권순상, 양동원(한양대학교, 신소재공학과.)

P5-ap.024

RCWA를 이용한 주기적인 나노 구조물의 광 특성 모의 실험 / 박재찬, 김태중, 남구현, 박한결, LE Van Long(경희대학교 물리학과 및 나노광물성연구실.)

P5-ap.025

산화 실리콘 박막을 이용한 실리카 나노와이어의 형성 및 발광 특성 / 박성훈, 이찬수, 최성규, 이남경, 윤종환(강원대학교, 물리학과.)

P5-ap.026

The Effect of PVA Solution on the Room Temperature Ferromagnetism of LaMnO₃ Nanoparticles / LIU chunli, TOLA Pardi(한국외국어대학교.)

P5-ap.027

NH₃ 플라스마 특성에 따른 산화 그래핀 환원법 연구 / 이성엽, 김홍탁, 김찬, 이형락(경북대학교 물리학과.)

P5-ap.028

Sintering temperature dependence of Eu³⁺ doped CaMoO₄ phosphors by high-energy ball milling / HONG WooTae, LEE JooHyun, JANG HyeonGill, PARK SungJun, YANG HyunKyoung, JEONG JungHyun¹
(Department of LED Convergence Engineering, Pukyong National University.
¹Department of physics, Pukyong National University.)

P5-ap.029

Nonlinear optical dynamics of TM and TE polarization in photonic crystals / JHE Wonho, PARK Julie, SONG TaeSun(Seoul National University.)

P5-ap.030

Reconsider Relation Between Effective Medium Approximation And Diffraction On Metamaterials / YI Changhyun, RHEE Joo Yull
(SungKyunKwan University, Department of Physics.)

P5-ap.031

Simultaneous Enhancement of Permittivity and Permeability Based on Deep Subwavelength Coil-plate Array / SHIN Jonghwa, HEO Minsung(KAIST, Department of Materials Science and Engineering.)

P5-ap.032

Ge-alloyed CZTSe Thin Film Solar Cells Fabricated by Solution Process / DHRUBA Khadka, 김준호(인천대학교, 물리학과.)

P5-ap.033

CZTSe Thin Film Solar Cells from Stacked Films and Post-Annealing Process / KIM SeongYeon, KIM JunHo(인천대학교, 물리학과.)

P5-ap.034

Study of annealing effects on thermal evaporated tin sulfide thin film / RANA Tanka, KIM JunHo(인천대학교, 물리학과.)

P5-ap.035

Defect Identification of Cylindrical Shell Using Resonance Modal Analysis / LIM SA-HOE(CNUHH.)

P5-ap.036

형광체의 종류에 따른 백색 발광 다이오드의 광특성 비교 분석 / 이광진, 오민우, 최민혁, 고재현(한림대, 전자물리학과.)

2015년 4월 24일 금요일 11:00 – 12:45

장소: 포스터발표장

진행위원: [거대시설, 나노/메조] 최재혁(KRISS)

P5-co.001*

Investigation of atomic structures of few-layer black phosphorous using TEM / LEE Yangjin, JEONG Hu Young¹, KIM Kwanpyo(Department of Physics, Ulsan National Institute of Science and Technology (UNIST). ¹UNIST Central Research Facilities (UCRF), Ulsan National Institute of Science and Technology (UNIST).)

P5-co.002*

Degradation of black phosphorous investigated by AFM and Raman spectroscopy / YOON JunYeong, SEO JinHwi, KIM kwanpyo (Department of Physics, Ulsan National Institute of Science and Technology (UNIST).)

P5-co.003*

Joule-heated infrared source based encapsulated graphenes / KIM Daehee, KIM Ho-jong¹, LEE Tae-ho¹, CHOI Seon Jae¹, JUNG Suyong¹, YUN Yoojoo², KANG Haeyong², SUH Dongseok², HA Dong Han¹, YUN Wan Soo, BAE Myung-Ho¹(Department of Chemistry, Sungkyunkwan University (SKKU), Suwon 440-746, Korea. ¹Korea Research Institute of Standards and Science, Daejeon 305-340, Republic of Korea. ²Department of Energy Science, Sungkyunkwan University (SKKU), Suwon 440-746, Korea.)

P5-co.004*

Electrically Confined Topological 1-D Chiral Channel in Bilayer Graphene / LEE Janghee, LEE Hu-Jong(POSTECH.)

P5-co.005*

Observation of Supercurrent in Bi₂Se₃ Topological Insulator / PARK Sang-Il, KIM Hong-Seok, KIM Bum-Kyu, YANG Yiming¹, PENG Xingyue¹, YU Dong¹, DOH Yong-Joo(Korea University Sejong Campus, Department of Applied Physics. ¹University of California, Davis, Department of Physics.)

P5-co.006*

Search for Superconducting Proximity Effect in Graphene via Quantum-Hall Edge Channels / GEON-HYOUNG PARK, GIL-HO LEE, YUN-SOK SHIN¹, HU-JONG LEE(POSTECH, Department of Physics. ¹Korea University, Department of Display and Semiconductor Physics.)

P5-co.007*

Field Effect Transistor operation in LaAlO₃/SrTiO₃ heterostructure

/ 송중현, 곽용수, 김진희(충남대학교 물리학과, ¹한국표준과학연구원.)

P5-co.008*

Cross-section Shape Modulation of ZnO Microwires by Arsenic Surfactants and Oxygen Concentration During Thermal Chemical Vapor Deposition

/ 오심건, 강대준(Department of Physics and Department of Energy Science, Sungkyunkwan University.)

P5-co.009*

Controlled Synthesis of Tellurium Nanowires, Nanotubes and Nanospheres Through a Facile Hydrothermal and Solvothermal Method

/ HE Wen, 강대준(Department of Physics, Sungkyunkwan University, Korea.)

P5-co.010*

High Voltage Electrohydrodynamic Lithography and Micro-Nano heterostructure fabrication

/ 문충만, CHATTERJEE Aniruddha, 이재종¹, 강대준(Department of Physics, Sungkyunkwan University, Korea, ¹한국기계연구원, Korea.)

P5-co.011*

Template-assisted Synthesis of Vanadium Nitride Hollow Spheres for High-performance Supercapacitors

/ YAN Yaping, 강대준(Department of Physics, Sungkyunkwan University, Korea.)

P5-co.012*

Raman scattering studies of CVD graphene domains

/ 이태건, MAS'UD Felisita Annisanti¹, 조현진¹, 김명종¹, 노희석²(전북대학교 물리학과, 한국과학기술연구원 소프트혁신소재연구센터, ¹한국과학기술연구원 소프트혁신소재연구센터, ²전북대학교 물리학과.)

P5-co.013*

Patterned Growth of Horizontally Oriented VO₂ Nanowires Using h-BN Monolayer Templates

/ 황재석, 강대준(Department of Physics and Department of Energy Science, Sungkyunkwan University, Korea.)

P5-co.014*

Effects of Moistures on the Structures and Deformation Field Inside of Zeolite Microcrystals

/ KANG Jinback, LEE Heeju, CARNIS Jerome, AN Gukil, KIM Dong-Jin, TUNG Cao Thanh Pham¹, YOON Kyung Byung¹, KIM Hyunjung(Department of Physics, Sogang University, ¹Department of Chemistry, Sogang University.)

P5-co.015*

Li+의 첨가에 따른 CaSrSiO₄:Eu³⁺ 형광체의 발광 특성 연구 / 조경미, 우현주, 권봉준¹, GANDHI Sakthivel¹, 신동수², 장기완(창원대학교, 물리학과. ¹창원대학교, 기초과학연구소, ²창원대학교, 화학과.)

P5-co.016*

Temperature Dependent Emission Spectra of Yellow-emitting CaSrSiO₄:Eu²⁺ Phosphors Concocted through Sol-gel Strategy / WOO Hyun-Joo, GANDHI Sakthivel¹, KWON Bong-Joon¹, CHO Kyungmi, SHIN Dong-Soo², JANG Kiwan(Changwon National University, Department of Physics. ¹Changwon National University, Research Institute of Basic Sciences. ²Changwon National University, Department of Chemistry.)

P5-co.017

PMMA-Etching-Free Transferring of Large Area 2D Materials Synthesized by Chemical Vapor Deposition Method / NGOC Huynh Van, 강대준(Department of Physics, Sungkyunkwan University, Korea.)

P5-co.018

Interface states between Topological and Normal Insulators / SHIN Jiseon, JEON Gun Sang(Ewha Womans University.)

P5-co.019

Tunable photoluminescence efficiency by electric field of organic rubrene microplates / 박철준, 주진수, 김민수¹, 김정용²(고려대학교 물리학과. ¹IBS센터 나노구조 물리단, ²성균관대학교 에너지과학과.)

P5-co.020

Photoresponsive Characteristics of MoS₂ Grown by Chemical Vapor Deposition / 박현정, 김준영, 주진수, 김민수¹, 김정용²(고려대학교 물리학과. ¹IBS센터 나노구조 물리단, ²성균관대학교 에너지과학과.)

P5-co.021

Surface Enhanced Raman Scattering (SERS) and Raman Waveguiding Characteristics of Organic Crystalline Microrod / 조성기, 김정용¹, 김진상², 주진수(고려대학교 물리학과. ¹성균관대학교 에너지과학과. ²Materials Science and Engineering, University of Michigan, USA.)

P5-co.022

Relation between an uppermost frequency of pumping and the energy difference of quasi-bound states / 안예환, 홍창기¹, 기영석², 정윤철³, 배명호⁴, 김남⁴(한국표준과학연구원(고려대학교, 물리학과). ¹한국표준과학연구원(부산대학교, 물리학과). ²한국표준과학연구원(전남대학교, 물리학과). ³부산대학교, 물리학과. ⁴한국표준과학연구원.)

P5-co.023

Fabrication of $\text{Mo}_{0.76}\text{Ge}_{0.24}$ superconducting LC-resonator / 기영석, 안예환¹, 심승보², 서준호², 홍영표², 이상길², 조성운³, 강기찬⁴, 배명호², 김남²(한국표준과학연구원(전남대학교, 물리학과), ¹한국표준과학연구원(고려대학교, 물리학과), ²한국표준과학연구원, ³서울대학교, 물리천문학부, ⁴전남대학교, 물리학과.)

P5-co.024

Electrical and Optical Characteristics of $\text{Zn}_x\text{Cu}_{1-x}\text{O}$ Nanoparticles Prepared by Hydothermal Method / KIM Jung-Ha, AHN Chang Won¹, KIM Ill Won¹, BAE Jong-Seong, HA Myoung Gyu, KIM Jong-Pil²(한국기초과학지원연구원 부산센터, ¹울산대학교 물리학과, ²한국기초과학지원연구원.)

P5-co.025

First-principles Study of $\text{Ni}(111)\text{-MoX}_2$ ($X = \text{S, Se, Te}$) Interfaces / MIN Kyung-Ah, CHO Kyeongjae¹, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University, ¹Department of Materials Science and Engineering, The University of Texas at Dallas.)

P5-co.026

Characterization of Single Crystal Graphene Grown on Copper Substrates using CVD / CHO Sangmo, NAM Jungtae, KIM Keun Soo, HWANG Chanyong¹, HONG Suklyun(Department of Physics and Graphene Research Institute, Sejong University, ¹Center for Nanometrology, Korea Research Institute of Standard and Science.)

P5-co.027

Enhanced Optical Interferometer For High Displacement Resolution / CHOI Heon Hwa, KIM Yun Won¹, CHOI Jae-Hyuk(Division of Physical Metrology, Korea Research Institute of Standards and Science, Korea; Department of Nano Science, University of Science and Technology, Daejeon, Korea, ¹Division of Physical Metrology, Korea Research Institute of Standards and Science, Korea.)

P5-co.028

Controlling the property of graphene using CVD process with various organic precursors / 김근수, 박상준, 이임복, 남정태, 배동재, 김지호¹, 최은집(세종대학교, 물리학과 & 그래핀연구소, ¹서울시립대학교, 물리학과.)

P5-co.029

Synthesis and Photoluminescence properties of Eu^{3+} doped $\text{Y}_{2-x}\text{Gd}_x\text{O}_3\text{:Eu}^{3+}$ nano-phosphors / 박종호(진주교육대학교, 과학교육과.)

P5-co.030

Very Large Supercurrent in PbS nanowire-based Josephson Junctions / KIM Bum-Kyu, KIM Hong-Seok, YANG Yiming¹, PENG Xingyue¹,

YU Dong¹, DOH Yong-Joo(Korea University Sejong Campus, Department of Applied Physics. ¹University of California, Department of Physics.)

P5-co.031

Ab initio Study of Phase Transition of Single Layer MoS₂ from 2H to 1T Phases / SUNG Dongchul, HONG Suklyun(Graphene Research Institute, Sejong University.)

P5-co.032

Design and Construction of Ultra-high Vacuum Compatible He4 Cryostat for Versatile Nano Measurements / JANG Won-Jun, YOON Yewon, LEE Min-Uk, LEE Soon-Hyung, JANG Yong Seok¹, KAHNG Se-Jong(Korea Univ. ¹M&S Vacuum Corp.)

P5-co.033*

Low Temperature Scanning Tunneling Microscope (STM) 제작 / 김상의, 김정대(울산대학교 물리학과/대학중점연구소(EHSRC).)

P5-co.034

Construction of Cryogen-Free Nuclear Demagnetization Cryostat for Ultra Low Temperature Research / CHOI H., BYUN HeeSu, KIM Kitak, IM Dong-gil, JEON Seong Hyeok, BLAAUWGEERS Rob¹(Department of Physics, KAIST, Daejeon, South Korea. ¹BlueFors Cryogenics Ltd., Helsinki, Finland.)

2015년 4월 24일 금요일 11:00 - 12:45

장소: 포스터발표장

P5-pl.001

Disintegration of Carbon dioxide Molecules in a Microwave Plasma Torch / KWAK Hyoun-Sin, KANG Min-Ho, NA Young H., UHM Han S. (Department of Electronic and Biological Physics, Kwangwoon University.)

P5-pl.002*

Pin point effect of Raman Back Scattering in 2D magnetized plasma / 허민섭, 송형선¹, 조명훈(울산과학기술대학교 물리학과).

P5-pl.003

Study on the Reverse Vortex Plasma Reactor applied by Abatement of Fluorinated Compounds Using Microwave Plasma Torch / KIM Ji Hun, CHO Chnag-Hyun, HONG Yong-Cheol (Plasma Technology Research Center, National Fusion Research Institute.)

P5-pl.004*

Development of Femtosecond Laser Induced Breakdown Spectroscopy (LIBS) for Tokamak Application / KIM minju, CHO byoung-ick (GIST, Department of Physics and Photon Science.)

P5-pl.005

Investigation of x-ray photoelectron spectroscopy and x-ray diffraction / JEONG JIN, LEE BONG JU (CHOSUN UNIVERSITY.)

P5-pl.006

Studying of Al doped CdO thin films by the magnetron sputtering / JEONG JIN, LEE BONG JU (CHOSUN UNIVERSITY.)

P5-pl.007

수중 방전을 이용한 선박평형수 처리시스템 인증시험 / 변용성, 홍은정, 유승열, 유승민(국가핵융합연구소, 플라즈마기술연구센터.)

P5-pl.008

The Effect of DBD Plasma Treatment on Development of Mycelia and Basidiocarps in a Mushroom / JEON seong sil, PENGKIT Anchalee, CHOI Eun Ha, UHM Han Sup, PARK Gyungsoon (광운대학교, 전자바이오물리학과.)

P5-pl.009

A study of the thermally induced transient oscillation in the huge cryogenic circuit / LEE Hyunjung, JOO J. J., KIM N. W., MOON K. M., PARK D. S., YANG H. L.(National Fusion Research Institute.)

P5-pl.010*

Vacuum Ultraviolet Absorption Spectroscopy to Measure Asolute Oxygen Atom Density Employing He/O₂ Micro Hollow Cathode Lamp / 문세연, 한덕선¹, 박상호¹(전북대학교 양자시스템공학과, 플라스마응용공학과. ¹전북대학교 플라스마응용공학과.)

P5-pl.011*

Storability Improvement of Agricultural Products using Dielectric Barrier Discharge Plasmas Treatment at Atmospheric Pressure / 문세연, 문아영¹, 유석재²(전북대학교 양자시스템공학과, 플라스마 응용공학과. ¹전북대학교 플라스마 응용공학과. ²국가 핵융합연구소.)

P5-pl.012*

음전압이 인가된 중공음극방전 플라스마의 개발 및 특성에 대한 연구 / 문세연, 박상호¹, 한덕선¹(전북대학교 양자시스템공학과, 플라스마응용공학과. ¹전북대학교 플라스마응용공학과.)

P5-.pl.013

상압플라스마를 이용한 석탄회의 표면 미연탄소 제거에 관한 연구 / 권성구, 임화인(군산대학교, 신소재공학과.)

P5-pl.014

Removal Of Water Impurities And Co-deposited Layers Inside The Castellated Gaps By Ion Cyclotron Wall Conditioning In KSTAR / BANG Eunnam, SON Suhyun, HONG Sukho(국가핵융합연구소(NFRI).)

P5-pl.015

Electrical Characteristic and Optical Diagnosis for Atmospheric FE-DBD Plasma / HONG Seong In, HONG Young Jun, CHOI Eun Ha, LEE Sang Hak¹(Plasma Bioscience Research Center, Kwangwoon University. ¹PDP Center, Kwangwoon University.)

P5-pl.016

Decomposition and Solidification of Waste Dichlorodifluoromethane Using a Microwave Plasma Torch / CHANG HYUN Cho, JI HUN Kim, YONG CHEOL Hong(Plasma Technology Research Center, National Fusion Research Institute.)

P5-pl.017*

상압 플라즈마를 이용한 태양전지 효율의 장기 신뢰성 향상용 덮개유리의 초소수화 연구 / 문세연, 유용성¹, 이승주¹, 박상호², 한덕선²(전북대학교 양자시스템공학과, 플라즈마응용공학과, ¹전북대학교 양자시스템공학과, ²전북대학교 플라즈마응용공학과.)

P5-pl.018*

대기압 플라즈마를 활용한 섬유증 제어 / 김기중, 권보미, 김미나¹, 이미남¹, 정진승¹, 신현정¹, 최원호(한국과학기술원, 물리학과, ¹한국과학기술원, 기계공학과.)

P5-pl.020

Drift wave 난류 플라즈마에서 소용돌이의 형성과 에너지 수송에 대한 연구 / 민병훈, 안찬용, 김창배(송실대학교.)

P5-pl.021*

Intense terahertz generation in two-color laser induced gas plasma / JANG Dogeun, KANG Keekon, SUK Hyyong(GIST.)

P5-pl.022*

Spectroscopic characterization and photon induced damage on photoresist in RF Inductively Coupled O₂/N₂ Plasmas / 문세연, 노수련¹(전북대학교 양자시스템공학과, 플라즈마응용공학과, ¹전북대학교 플라즈마응용공학과.)

P5-pl.023

Commissioning of x-ray streak camera for the ultrafast x-ray spectroscopy / KIM YoungHoon, CHO ByoungIck, KANG SeungWoo¹, CHOI IlWoo²(Gwangju Institute of Science & Technology(GIST), Center for Relativistic Laser Science (IBS), ¹Gwangju Institute of Science & Technology(GIST) Advanced Photonics Research Institute(APRI), ²기초과학연구원, 초강력 레이저과학연구단, 광주과학기술원/물리광학과.)

P5-pl.024*

대기압 플라즈마 젯의 방전 특성 및 플라즈마-액체 상호작용 연구 / 백은정, 조혜민, 김선자, 정태훈(동아대학교.)

P5-pl.025

대기압 플라즈마 젯을 이용한 플라즈마-액체-암세포 상호작용 연구: 세포를 포함하고 있는 용액의 깊이에 따른 세포 내 라디칼의 변화 측정 / 조혜민, 김선자, 백은정, 정태훈(동아대학교 물리학과.)

P5-pl.026*

Particle-in-Cell Simulation을 통한 방전 공간길이와 인가주파수에 따른 DBD 플라즈마에 대한 전자에너지 분포 분석 연구 / 이정열, 배효원, 이해준¹(부산대학교 전자전기컴퓨터공학과, ¹부산대학교 전기공학과.)

P5-pl.027*

Characterization of hydrogen-filled discharged plasma waveguide for LWFA (Laser Wake-Field Acceleration) / JANG Donggyu, PHUNG Vanessa, KIM Minsuk, SUK Hyong(광주과학기술원, 물리 광학과.)

P5-pl.028*

Design and Commissioning of a Linear Plasma Device for Studying the Motion of Charged Particle in Diverging Magnetic Field / CHUNG Kyoungsoo, KIM Seongcheol, KIM Yoosung, CHUNG Kyoung-Jae, HWANG Yongseok(Seoul National University, Department of Nuclear Engineering.)

P5-pl.029

Full wave simulations of electron cyclotron wave absorption in a linear plasma device / CHUNG Kyoungjae, KIM Seongcheol¹, CHUNG Kyoungsoo¹, HWANG Yongseok¹(SNU Division of graduate education for sustainablization of foundation energy, ¹Department of nuclear engineering, seoul national university.)

P5-pl.030

Effect of a transverse magnetic field strength and pressure on plasma parameters in a negative hydrogen ion source / CHO Won Hwi, DANG Jeong Jeung, CHUNG Kyoung Jae¹, KIM June Young, HWANG Yong Seok(Department of Nuclear Engineering, Seoul National University, Seoul 151-744, South Korea. ¹SNU Division of Graduate Education for Sustainablization of Foundation Energy, Seoul National University, Seoul, South Korea.)

P5-pl.031

Development of Hydrogen Collisional-Radiative Model with Dissociative Excitation Process / HWANG YongSeok, KIM YooSung, CHUNG Kyoungsoo, KIM Seongcheol, DANG jeong-jeung, CHUNG Kyoung-Jae(Department of Nuclear Engineering, Seoul National University, Seoul, Republic of Korea.)

P5-pl.032*

Schlieren and shadowgraph imaging for the visualization of electrical wire discharges in the water / LEE Kern, CHUNG Kyoung-Jae, HWANG Y. S.(Department of Nuclear Engineering, Seoul National University.)

P5-pl.033*

8세대 건식 식각 설비 고밀도 플라즈마의 여기온도 측정을 위한 광진단계 개발 / 장주혁, 박상후, 박주영, 최원호(한국과학기술원, 물리학과.)

P5-pl.034*

입력전원 구동 주파수 (18 kHz, 100 kHz)에 따른 DBD 방전 특성 연구 /
문혜원, 엄상흠¹, 김성봉¹, 유석재¹, 주정훈²(¹군산대학교 플라즈마융합공학과, ²국가
핵융합연구소 플라즈마기술연구센터, ²군산대학교 신소재공학과.)

P5-pl.035

마이크로파 플라즈마 방전 엔진 성능 기초 연구 / 최원호, 배충식¹, 박주영, 박
상후, 황준식¹, 차정화², 오희창², 우수형²(KAIST 물리학과, ¹KAIST 기계공학과, ²현
대자동차 선행기술리엔진 개발팀.)

P5-pl.036*

구동 주파수에 따른 대기압 축전결합 플라즈마의 특성 연구 / 박상후, 최원
호(한국과학기술원, 물리학과.)

P5-pl.037*

가시광 영역 연속 방출광 기반의 전자온도 및 밀도 측정 / 박상후, 최원호(한
국과학기술원, 물리학과.)

P5-pl.038

**Study on atmospheric needle plasma using laser Thomson,
Rayleigh and Raman scattering /** SEO Byong Hoon, KIM Dae Woong,
KIM Jung Hyung, YOU Shin Jae¹(Vacuum center, Korea Research Institute of
Standard and Science. ¹Dep. Phys., Chungnam national university.)

2015년 4월 24일 금요일 11:00 - 12:45

장소: 포스터발표장

P5-se.001

Control of a magneto-current through a multifunctional tunneling diode / KIM Namme, KIM Heesang(Department of Physics, Soongsil University.)

P5-se.003*

Enhanced Hot Electron Flow on Plasmonic Nanodiode by Adsorption of PbS Quantum dots / LEE Changhwan, CHOI Hyekyoung¹, LEE Young Keun, JEONG Sohee¹, PARK Jeong Young(IBM, Center for Nanomaterials and Chemical Reactions & KAIST, Graduate School of EEWS. ¹KIMM, Nanomechanical Systems Research Division.)

P5-se.004

실리콘 광증배소자의 다채널 신호 처리 장치 개발 / 이경구, 이직, 박일홍, 이혜영, 전진아(성균관대학교 물리학과.)

P5-se.005

Post-annealing effect of ZnS thin film for CIGS solar cell / AHN HEEJIN, UM YOUNGHO(울산대학교 물리학과.)

P5-se.006*

Study on Effect of Distorted Structure Induced by Silver Doping in $\text{Ge}_2\text{Sb}_2\text{Te}_5$ / CHO Mann-Ho, HAN Jeong Hwa, AHN Min, YANG Won Jun, CHOI Hye Jin, PARK Sung Jin(연세대학교 물리학과.)

P5-se.007*

Dependence of resistive switching behaviors on amount of Nitrogen ratio in TaN bottom electrode / KIM Taeyoon, LEE Ah Rahm¹, BAEK Gwang Ho¹, HONG Jin Pyo(Department of Physics, Hanyang University. ¹Division of Nano-Scale Semiconductor Engineering, Hanyang University.)

P5-se.008

Design and Simulation of the next generation photo sensor made from multi arrays of SiPM / 전진아, 이혜영, 이직, 박일홍(성균관대학교.)

P5-se.009

가스 선택성을 갖는 Au가 도핑된 FET 기반의 SWNT 센서 제작 / 이제행, 김재성, 최선우, 김신근, 김선호, 변영태(한국과학기술연구원.)

P5-se.010*

Graphene Biosensor using Self-assembling Protein / 김(KIM)지은 (Jieun), 김주남(성균관대학교, 전자전기공학과.)

P5-se.011

Novel Silicon Photomultiplier with High Fill Factor / 이해영, 전진아, 이직, 박일홍(성균관대학교.)

P5-se.012*

Studies on the Diamond Detector Consisted of single-crystalline Chemical Vapor Deposition Diamond in Radiation Measurement / 계용욱, 현효정¹, 신성균, 남궁원¹, 조무현¹, 김경숙¹(포항공과대학교, 첨단원자력공학부, ¹포항가속기연구소.)

P5-se.014

플래시 메모리의 효율 향상을 위한 도핑구조 변화에 대한 연구 / 전성배, 안준성¹, 김태환¹(한양대학교, 나노반도체공학과, ¹한양대학교, 전자컴퓨터통신공학부.)

P5-se.015*

지지층을 이용하여 붕소를 이온 주입한 그래핀의 구조적 및 전기적인 p형 도핑 특성 / 장찬욱, 김주환, 김성, 최석호, BELAY K.¹, ELLIMAN Robert G.¹(경희대 응용물리학과, ¹호주국립대학 전자재료공학과.)

P5-se.017

삽입된 gate 구조를 이용한 FinFet의 전기적 특성 강화 / 고경욱, 김태환(한양대학교, 전자컴퓨터통신공학부.)

P5-se.018

게이트 올 어라운드 트윈 실리콘 나노와이어 전계효과 트랜지스터의 전기적 특성 향상을 위한 연구 / 이준규, 김태환(한양대학교, 전자컴퓨터통신공학부.)

P5-se.019*

Perpendicular Magnetic Anisotropy Features of [Co/Pd] Multilayer Matrix and Related Synthetic Anti-Ferromagnet Structure / HONG JinPyo, LEE JaBin, AN GwangGuk, YANG SeungMo, KIM JaeHong¹, PARK HaeSoo, CHUNG WooSeong²(Hanyang Univ., Dept. of Physics. ¹Hanyang Univ., Division of Nano-Scale Semiconductor Engineering. ²Hanyang Univ., Dept. of Electronics and Computer Engineering.)

P5-se.020

High-k 물질을 삽입한 MOSFET에서의 이동도 감소 메커니즘 / 정현수, 김태환(한양대학교, 전자통신컴퓨터공학부.)

P5-se.021*

All-oxide semiconductor-based access devices for 3D stackable

crossbar array memory architecture / BAEK Gwangho, LEE Ahrahm, KIM Taeyoon¹, HONG Jinpyo²(Hanyang University, Division of Nano-Scale Semiconductor Engineering. ¹Hanyang University, Department of Physics. ²Hanyang University, Division of Nano-Scale Semiconductor Engineering, Department of Physics.)

P5-se.022

Electrical and Optical Properties of Silver/Indium Tin Oxide Multilayer Structure / OH Gyujin, JEON Jia, KIM Eun Kyu(Hanyang University, Department of Physics.)

P5-se.023*

Control of Thermally Activated Ta Atom Diffusion Behavior Employing Ta Layer Thicknesses and Diffusion Sponge Function of TaOx Layer. / HONG JINPYO, YANG SEUNGMO, LEE JABIN, GWANGGUK AN, KIM JAEHONG¹, CHUNG WOOSEONG², PARK HAESOO(Hanyang University, Department of Physics. ¹Hanyang University, Division of Nano-Scale Semiconductor Engineering. ²Hanyang University, Department of Electronics and Computer Engineering.)

P5-se.024*

그래핀을 촉매로 이용한 실리콘의 화학적 식각법에 관한 연구 / 김정길, 이대훈, 장찬욱, 김성, 최석호(경희대 응용물리학과.)

P5-se.025*

Electrodeposited Ruthenium Oxide (RUO2) on copper paper based supercapacitor with high energy / 조상은, 김종민, 조용철, 박우영, 김인호, 한재석, 이종경(동국대학교 반도체과학과.)

P5-se.026*

AuCl₃ 도핑 농도에 따른 그래핀/ZnO 박막의 플라즈몬 결합에 의한 발광 특성 향상 연구 / 김종민, 김주환, 강수석, 김성, 최석호(경희대 응용물리학과.)

P5-se.027*

Fabrication of Nanopyramidal Structures on Microtextured Surface of Crystalline Si Solar Cells / PARIDA BHASKAR, CHOI JAEHO, PALEI SRIKANTA, KO SEOKYONG¹, KIM KEUNJOO(Dept. of Mechanical Engineering, Chonbuk National University. ¹Dept. of Mechanical Engineering, Chonbuk National University, Division of R&D, Withlight. co. Ltd.)

P5-se.028

Hexagonal nanopore arrays with varying interpore distance formed via Anodic Aluminum Oxide template / 김동환, 신재철(영남대학교 물리학과.)

P5-se.029

Growth and TEM properties of SnO₂ thin films / JEONG JIN(CHOSUN UNIVERSITY.)

P5-se.030*

The influence of InZnO thickness on DC I-V, transient I-V and noise characteristics of bilayer HfInZnO-InZnO TFTs / KIM Taeho, PARK Junghak, JUNG Minhyun¹, JEON Sanghun(Korea University, Department of Applied Physics. ¹Korea University, Department of Display and Semiconductor Physics.)

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The influence of gate insulator deposition temperature on DC I-V, transient I-V and noise characteristics of amorphous IGZO TFTs / KIM Taeho, PARK Junghak, JUNG Minhyun¹, JEON Sanghun(Korea University, Department of Applied Physics. ¹Korea University, Department of Display and Semiconductor Physics.)

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Electrical and visible light reliability characteristics of amorphous HfInZnO thin film transistor with Hf content / KIM Taeho, PARK Junghak, JUNG Minhyun¹, JEON Sanghun(Korea University, Department of Applied Physics. ¹Korea University, Department of Display and Semiconductor Physics.)

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Persistent photoconductivity in MoS₂ field effect transistor with the number of layer thickness and ambient condition / PARK junghak, KIM taeho, JUNG minhyun¹, JEON sanghun(Department of Applied Physics, Korea University. ¹Department of Display and Semiconductor Physics.)

P5-se.034

The dependence of layer thickness for photo-responsive characteristics of MoS₂ field effect transistor / PARK junghak, KIM taeho, JUNG minhyun¹, AHN minho¹, PARK kunggeun¹, YEON kyungmo¹, JEON sanghun(Department of Applied Physics, Korea University. ¹Department of Display and Semiconductor Physics.)

P5-se.035

The influence of Sol-gel passivation and post annealing on photo-responsive characteristics of multilayer MoS₂ photo-sensor / PARK junghak, KIM taeho, JUNG minhyun¹, JEON sanghun(Department of Applied Physics, Korea University. ¹Department of Display and Semiconductor Physics, Korea university.)

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Dependency of Position of the Free Layer in MTJ of p-STT MRAM on PMA and TMR Characteristics / HONG Song-Hwa, BAEK Jong-Ung¹, LEE Seung-Eun, LEE Du-yeong, TAKEMURA Yasutaka², SHIM Tae-Hun, PARK Jea-Gun(Department of Electronics and Computer Engineering, Hanyang University, Seoul 133-791, Republic of Korea. ¹Department of Nanoscale Semiconductor Engineering, Hanyang University, Seoul 133-791, Republic of Korea. ²SUMCO Corporation, 1007-62 Izumisawa, Chitose-shi, Hokkaido 066-0051, Japan.)

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Evaluation of interface trap density between MoS₂ layer and dielectrics in suspended MoS₂ transistor / QIU Dongri, KIM Eun Kyu(Hanyang University, Department of Physics.)

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Tapered-active 구조를 이용한 중적외선 파장대역의 Quantum Cascade Laser 특성 연구 / 안병민, 신재철(영남대학교 이과대학 물리학과.)

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Transmission Line Model(TLM)을 이용한 반도체 나노구조의 전기적 특성 측정 및 향상 / 조민혁, 신재철, 최찬호(영남대학교 물리학과.)

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Photo-responsive characteristics of MoSe₂ photo-sensor with passivation / JUNG MINHYUN, LIM SOKJOO, PARK JUNGHAK¹, JEON SANGHUN¹, KIM TAEHO¹(고려대학교 세종캠퍼스 디스플레이 반도체 물리학과. ¹고려대학교 세종캠퍼스 응용물리학과.)

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