

<2017 가을 학술논문발표회 우수발표상 수상명단(구두발표부문)>

\* 총 59 건

**A1.06\*** [15:00 - 15:12]

**R&D projects for the COSINE experiment** / GOVINDA Adhikari<sup>\*1</sup> (<sup>1</sup>Department of Physics, Sejong University)

**A2.04\*** [14:48 - 14:00]

**Perception biases in social networks with homophily** / LEE Eun<sup>\*1</sup>, KARIMI Fariba<sup>2</sup>, JO Hang Hyun<sup>3</sup>, WAGNER Claudia<sup>2</sup>, STROHMAIER Markus<sup>2</sup> (<sup>1</sup>성균관대학교, 에너지과학, <sup>2</sup>GESIS, Computational Social Science, <sup>3</sup>Asia Pacific Center for Theoretical Physics, Statistical Physics of Complex Dynamics Lab)

**A2.07\*** [15:24 - 15:36]

**Ranking influential spreaders is an ill-defined problem** / GU Jain<sup>1</sup>, LEE Sungmin<sup>\*1</sup>, SARAMAKI Jari<sup>2</sup>, HOLME Petter<sup>3</sup> (<sup>1</sup>Department of Energy Science, Sungkyunkwan University, <sup>2</sup>Department of Computer Science, Aalto University, <sup>3</sup>Institute of Innovative Research, Tokyo Institute of Technology)

**A2.08\*** [15:36 - 15:48]

**Expended supply-demand theory in a distribution network** / LEE Daekyung<sup>1</sup>, YANG Seong-Gyu<sup>1</sup>, KIM Kibum<sup>1</sup>, KIM Beom Jun<sup>\*1</sup> (<sup>1</sup>Department of Physics, Sungkyunkwan University)

**A3.05\*** [14:48 - 15:00]

**Asymptotic M5-brane entropy from S-duality** / NAHMGGOONG June<sup>1</sup>, KIM Seok<sup>\*1</sup> (<sup>1</sup>Department of Physics and Astronomy, Seoul National University)

**A4.07\*** [15:12 - 15:24]

**Masses of singly and doubly heavy baryons within the self-consistent SU(3) chiral quark-soliton model** / KIM Hyun-Chul<sup>\*3</sup>, KIM June-Young<sup>1</sup>, YANG Ghil-Seok<sup>2</sup>, PRASZALOWICZ Michal<sup>4</sup> (<sup>1</sup>Department of physics, Inha University, <sup>2</sup>Department of physics, Inha University, <sup>3</sup>Department of physics, Soongsil University, <sup>4</sup>M. Smoluchowski Institute of Physics, Jagiellonian University)

**A12.03\*** [14:48 - 15:00]

**Solution-Processed Tantalum Pentoxide for Low-Power Electronic Devices** / 허정우<sup>1</sup>, 김진영<sup>1,2</sup>  
(<sup>1</sup>Department of Physics, UNIST, <sup>2</sup>Department of Energy Engineering, UNIST)

**A13.05\*** [15:24 - 15:36]

**Time-resolved x-ray diffraction study for measuring photo-induced lattice movements in picosecond to microsecond time scale.** / 조원혁<sup>1,2</sup>, 이수형<sup>2</sup>, 이동렬<sup>1</sup> (<sup>1</sup> 숭실대학교, 물리학과, <sup>2</sup> 한국표준과학연구원, 창의융합연구센터)

**B5.06\*** [17:18 - 17:31]

**Site-specific loading and detection of single atom in a 1D optical lattice** / HAN Hyok Sang<sup>1</sup>, LEE Hyun Gyung<sup>1</sup>, YOON Seokchan<sup>1</sup>, D. Cho<sup>\*1</sup> (<sup>1</sup>Department of Physics, Korea University)

**B8.04\*** [16:48 - 17:00]

**Magnetism in two-dimensional ferroxhyte ( $\delta$ -FeOOH): A first principles study** / KHAN Imran<sup>1</sup>, M. FAROOQ Umar<sup>1</sup>, 홍지상<sup>\*1</sup> (<sup>1</sup> 부경대학교, 물리학과)

**B10.05\*** [16:48 - 17:00]

**Topological semimetals induced by magnetic control of the Luttinger q-term in pyrochlore iridates** / 오탈구<sup>1,2,3</sup>, 양범정<sup>\*1,2,3</sup> (<sup>1</sup> 서울대학교, 물리학과, <sup>2</sup> 서울대학교, 이론물리연구소, <sup>3</sup>IBS, CCES)

**B12.05\*** [17:00 - 17:12]

**Controllable charge transport in molecular junctions engineered by chemical p-doping of graphene electrodes** / 장연식<sup>1</sup>, 권성주<sup>2</sup>, 신재호<sup>3</sup>, 정현학<sup>1</sup>, 황왕택<sup>1</sup>, 김준우<sup>1</sup>, 구정민<sup>1</sup>, 왕건욱<sup>3</sup>, 이태우<sup>4</sup>, 이탁희<sup>\*1</sup> (<sup>1</sup>Department of Physics and Astronomy, and Institute of Applied Physics, Seoul National University, <sup>2</sup>Department of Materials Science and Engineering, Pohang University of Science and Technology, <sup>3</sup>KU-KIST Graduate School of Converging Science and Technology, Korea University, <sup>4</sup>Department of Material Science and Engineering, Seoul National University)

**B13.05\*** [17:24 - 17:36]

**Study of the Magnetic Proximity Effect in Pd/Co/Pd and Pt/Co/Pt trilayer systems using X-ray Resonant Magnetic Scattering** / KIM Dong-Ok<sup>1,2</sup>, SONG KyungMee<sup>2,3</sup>, CHOI Yongseong<sup>4</sup>, Min Byoung-Chul<sup>2</sup>, KIM Jae-Sung<sup>3</sup>, CHOI JunWoo<sup>2</sup>, LEE DongRyeol<sup>\*1</sup> (<sup>1</sup>Department of Physics, Soongsil University, <sup>2</sup>Center for Spintronics, Korea Institute of Science and Technology, <sup>3</sup>Department of Physics, Sookmyung Women's University, <sup>4</sup>Advanced Photon Source, Argonne National Laboratory)

**C2.02\*** [09:12 - 09:24]

**Search for CP violation using T-odd correlations in  $D^0 \rightarrow K+K-\pi+\pi-$  decay** / 김재박<sup>1</sup>,  
원은일<sup>1</sup> (<sup>1</sup> 고려대학교, 물리학과)

**C4.06\*** [10:00 - 10:12]

**Development of  $Tl_2Gd(1-x)Ce_xCl_5$  ( $x=0, 1, 5, 10$  mole%) scintillator for X- and  $\gamma$ -ray detection** / KHAN Arshad<sup>1</sup>, ROOH Gul<sup>2</sup>, KIM H. J.<sup>1</sup>, PARK Hwanbae<sup>1</sup>, KIM Sunghwan<sup>3</sup>

(<sup>1</sup>Department of Physics, Kyungpook National University, <sup>2</sup>Department of Physics, Abdul Wali Khan University, Mardan, 23200, Pakistan, <sup>3</sup>Department of Physics, Cheongju University)

**C8.05\*** [9:48 - 10:00]

**Coupling between Charge, Lattice, Orbital, and Spin in a Charge Density Wave of  $1T-TaS_2$**  / 이세호<sup>1</sup>, ZHANG Zhenyu<sup>2</sup>, 조준형<sup>1</sup> (<sup>1</sup> 한양대학교, 물리학과, <sup>2</sup>University of Science and Technology of China, ICQD)

**C12.03\*** [9:24 - 9:36]

**MeV electron beam stimulated welding of silver nanowire networks encapsulated with graphene for flexible and transparent electrodes** / 이수진<sup>1,2</sup>, 박진성<sup>1</sup>, 이선숙<sup>2</sup>, 송우석<sup>2</sup>, 이영범<sup>2</sup>, 한진규<sup>2</sup>, 임이랑<sup>2</sup> (<sup>1</sup> 한양대학교, 신소재공학과, <sup>2</sup>한국화학연구원, 박막재료연구센터)

**C12.04\*** [9:36 - 9:48]

**Optical and electrical properties of amorphous Zn-Sn-O transparent conducting films** / OH Seol Hee<sup>1</sup>, DINIA Aziz<sup>2</sup>, SLAOUI Abdelilah<sup>3</sup>, FERBLANTIER Gerald<sup>2</sup>, FIX Thomas<sup>2</sup>, JO William<sup>1</sup>

(<sup>1</sup>Department of Physics and New and Renewable Energy Research Center (NREC), Ewha Womans University, <sup>2</sup>IPCMS, CNRS-Universite de Strasbourg, <sup>3</sup>ICube, CNRS-Universite de Strasbourg)

**C14.07\*** [10:24 - 10:36]

**Origin of the FRET efficiency distribution in single-molecule measurement** / LEE Jaejin<sup>1</sup>, KIM Sung Hyun<sup>1,2</sup>, SE Tola<sup>1</sup>, KIM Doseok<sup>1</sup> (<sup>1</sup>Department of Physics, Sogang University, <sup>2</sup>School of Biological Science, Seoul National University)

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

**Status report for Si-CsI detector simulation study with IQMD simulated data at Low-LAMPS**

**(Large Acceptance Multi-Purpose Spectrometer)** / BAK Gyeonghwan<sup>1</sup>, MOON Dongho<sup>\*1</sup>, LEE Hanseul<sup>1</sup>, LEE Kyongsei<sup>2</sup>, AHN Jungkeun<sup>2</sup>, HONG Byungsik<sup>2</sup>, PARK Jaebeom<sup>2</sup>, KIM Youngjin<sup>3</sup>, KIM Eunjoo<sup>4</sup> (<sup>1</sup>Department of Physics, Chonnam National University, <sup>2</sup>Department of Physics, Korea University, <sup>3</sup>Rare Isotope Science Project, Institute for Basic Science, <sup>4</sup>Division of Science Education, Chonbuk National University)

**D5.05\*** [12:18 - 12:31]

**Thermalization dynamics of an Ising quantum magnet** / KIM Hyosub<sup>1</sup>, AHN Jaewook<sup>\*1</sup>, PARK Yeje<sup>1</sup>, SIM Heungsun<sup>1</sup>, LEE Woojun<sup>1</sup>, KIM Kyungtae<sup>1</sup>, SONG Yunheung<sup>1</sup> (<sup>1</sup>Physics, KAIST)

**D10.05\*** [12:24 - 12:36]

**Terahertz optical characterization of DNA hybridized graphene using nano metamaterials** / 이상훈<sup>1,2</sup>, 최종호<sup>3</sup>, 김철기<sup>2</sup>, 손주혁<sup>1</sup>, 서민아<sup>\*2</sup> (<sup>1</sup>서울시립대학교, 물리학과, <sup>2</sup>한국과학기술연구원, 센서시스템연구센터, <sup>3</sup>고려대학교, 물리학과)

**D12.02\*** [11:12 - 11:24]

**The Amplificated Photocurrent by Photons in Graphene-SiO<sub>2</sub>-Si (GIS) Heterostructure with a Low Work Function Difference** / 박홍기<sup>1</sup>, 최재우<sup>\*1</sup> (<sup>1</sup>경희대학교, 정보디스플레이)

**D14.05\*** [12:12 - 12:24]

**Single-molecule Force-Fluorescence Spectroscopy in Expanded Focal Depth** / CHANG Minhyeok<sup>1</sup>, OH Jungsic<sup>1</sup>, LEE Jong-Bong<sup>\*1,2</sup> (<sup>1</sup>Physics, Pohang University of Science and Technology, <sup>2</sup>School of Interdisciplinary Bioscience and Bioengineering, Pohang University of Science and Technology)

**E1.01\*** [14:00 - 14:12]

**Study of Drell-Yan differential cross section with 2016 data** / 배달민<sup>1</sup>, 유휘동<sup>\*1</sup> (<sup>1</sup>서울대학교, 물리천문학부)

**E1.07\*** [15:12 - 15:24]

**Update on a Level-1 pixel based trigger feasibility study for HL-LHC** / 김준호<sup>1</sup>, SAVOY-NAVARRO Aurore<sup>\*3</sup>, MOON Chang-Seong<sup>2</sup>, YU Geumbong<sup>1</sup>, KIM Jaesung<sup>1</sup>, YANG Un-Ki<sup>1</sup> (<sup>1</sup>서울대학교, 물리학과, <sup>2</sup>경북대학교, 물리학과, <sup>3</sup>Department of Physics, Paris Diderot University,)

**E5.06\*** [15:00 - 15:12]

**디즈니 문화를 기반으로 한 인공지능 시대의 한국 과학교육 콘텐츠 개발** / 이수아<sup>1</sup>, 박윤배<sup>\*2</sup>  
(<sup>1</sup>ScienArt 연구소, 과학교육, <sup>2</sup>경북대학교, 과학교육과)

**E8.05\*** [15:36 - 15:48]

**Intrinsic spin and orbital Hall effect form the atomic orbital hybridization** / GO Dongwook<sup>1</sup>,  
KIM Changyoung<sup>2</sup>, LEE Hyun-Woo<sup>\*1</sup> (<sup>1</sup>Department of Physics, Pohang University of Science and  
Technology, <sup>2</sup>Department of Physics and Astronomy, Seoul National University)

**E12.04\*** [14:36 - 14:48]

**Low-frequency Raman Spectroscopy of Few-layer 2H-SnS<sub>2</sub>** / SRIV Tharith<sup>1</sup>, KIM Kangwon<sup>1</sup>,  
CHEONG Hyeonsik<sup>\*1</sup> (<sup>1</sup>Department of Physics, Sogang University)

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

**Search for the flavor-changing neutral higgs decaying to bb bar using deep learning method  
with 36 fb-1 at 13 TeV** / GOH Junghwan<sup>1</sup>, KIM Tae Jeong<sup>1</sup>, PARK Jiwon<sup>\*1</sup>, AHN Seohyun<sup>1</sup>  
(<sup>1</sup>Department of Physics, Hanyang University)

**F2.03\*** [16:36 - 16:48]

**음성인식과 문자인식에서 딥러닝의 차별성** / SEONG Yeol-heon<sup>1</sup>, KIM Hyunjae<sup>1</sup>, KIM Minseong<sup>2</sup>,  
PARK Maruchan<sup>1</sup>, YOO Jaeyun<sup>1</sup>, LEE Wooseok<sup>1</sup>, AHN Kang-Hun<sup>\*1</sup> (<sup>1</sup>충남대학교, 물리학과,  
<sup>2</sup>충남대학교, 항공우주공학과)

**F5.02\*** [16:12 - 16:24]

**Excitation energy dependence of coherent phonon in single-layer MoSe<sub>2</sub>** / 정태영<sup>1,2</sup>, 이성연<sup>1</sup>,  
정수용<sup>2</sup>, 이기주<sup>\*1</sup> (<sup>1</sup>충남대학교, 물리학과, <sup>2</sup>표준과학연구원, 양자측정센터)

**F5.06\*** [17:00 - 17:12]

**One-atom thick mask and etch stop of fluorinated graphene for van der Waals  
heterostructure devices** / KWON Junyoung<sup>1</sup>, SON Jangyup<sup>2</sup>, LEE Jong-Young<sup>1</sup>, RYU Huije<sup>1</sup>, KIM  
Sun-Phil<sup>2</sup>, LV Yinchuan<sup>3</sup>, HUANG Pinshane Y.<sup>3</sup>, VAN DER ZANDE Arend<sup>2</sup>, LEE Gwan-Hyoung<sup>\*1</sup>  
(<sup>1</sup>Department of Materials Science and Engineering, Yonsei university, <sup>2</sup>Department of Mechanical  
Science and Engineering, University of Illinois at Urbana-Champaign, <sup>3</sup>Department of Mechanical  
Science and Engineering, University of Illinois at Urbana-Champaign)

**F6.04\*** [17:00 - 17:12]

**UV oxidation induced layer control of phosphorene and improvement of electrical property /**

이종영<sup>1</sup>, 이관형<sup>\*1</sup>, 김수현<sup>2</sup>, 김지현<sup>2</sup>, 이철호<sup>3</sup> (<sup>1</sup>연세대학교, 신소재공학과, <sup>2</sup>고려대학교, 화학생명공학과, <sup>3</sup>고려대학교, KU-KIST 융합대학원)

**F7.06\*** [17:48 - 18:00]

**Measurement on spatial coherence in hard x-ray free electron laser apart from the intensity noise and its dependance on the focusing process. /** CHO Dohyung<sup>1</sup>, YANG Jiseok<sup>1</sup>, NAM Daewoong<sup>2</sup>, KIM Sangsoo<sup>2</sup>, SONG Changyong<sup>\*1</sup> (<sup>1</sup>Dept. of Physics, Pohang University of Science and Technology, <sup>2</sup>XFEL Experiment Instrumentation Team, Pohang Accelerator Laboratory)

**F12.05\*** [17:12 - 17:24]

**Interdigital electrode based triboelectric nanogenerator for effective energy harvesting from water /** KIM Hyunsoo<sup>1</sup>, YUN Byungkil<sup>1</sup>, KO Youngjoon<sup>1</sup>, MURILLO Gonzalo<sup>2</sup>, JUNG Jonghoon<sup>\*1</sup>

(<sup>1</sup>Department of Physics, Inha University, <sup>2</sup>Department of Nano and Microsystems, IMB-CNM)

**F13.05\*** [16:48 - 17:00]

**A new phosphorus allotrope discovered by ab initio materials design /** 한우현<sup>\*1</sup>, 김성현<sup>2</sup>,

이인호<sup>3</sup>, 장기주<sup>1</sup> (<sup>1</sup>Department of Physics, Korea Advanced Institute of Science and Technology, <sup>2</sup>Department of Materials, Imperial College London, <sup>3</sup>Center for Materials Genome, Korea Research Institute of Standards and Science)

**F13.06\*** [17:00 - 17:12]

**A comparative study of DFT+U functionals: Double counting, spin density, and Hund interaction /** 이시현<sup>1</sup>, 한명준<sup>\*1</sup> (<sup>1</sup>한국과학기술원, 물리학과)

**G2.01\*** [09:00 - 09:12]

**Search for a high-mass resonance decaying into a dilepton final state using pp collisions at**

**$\sqrt{s} = 13 \text{ TeV}$  /** 오민석<sup>1</sup>, 유휘동<sup>\*1</sup> (<sup>1</sup>서울대학교, 물리천문학부 물리학과)

**G3.05\*** [09:48 - 10:00]

**Heavy decaying dark matter search with the IceCube Neutrino Telescope /** DUJMOVIC Hrvoje<sup>\*1</sup>

(<sup>1</sup>Department of Physics, SKKU)

**G4.04\*** [9:36 - 9:48]

**Improved measurement of very forward transverse single spin asymmetry for  $\pi^0$  production in polarized  $p + p$  collisions at  $\sqrt{s} = 510$  GeV / KIM Minho<sup>1,2</sup>, HONG Byungsik<sup>\*1</sup>**

(<sup>1</sup>Department of Physics, Korea University, <sup>2</sup>Radiation Laboratory, RIKEN)

**G4.08\*** [10:24 - 10:36]

**Suppression of excited  $Y$  states relative to the ground state in PbPb collisions**

**at  $\sqrt{s_{NN}} = 5.02$  TeV / OH Geonhee<sup>\*1</sup>, MOON Dongho<sup>1</sup>** (<sup>1</sup>Department of Physics, Chonnam National University)

**G6.04\*** [9:36 - 9:48]

**The effects on defect generation during thermal and electrical stress in InAs MOS capacitor /**

BAIK Min<sup>1</sup>, KANG Hang-Kyu<sup>1,3</sup>, KANG Yu-Seon<sup>1</sup>, JEONG Kwang-Sik<sup>1</sup>, LEE Changmin<sup>2</sup>, KIM Hyoungsub<sup>2</sup>, SONG Jin-Dong<sup>3</sup>, CHO Mann-Ho<sup>\*1</sup> (<sup>1</sup>Department of Physics, Yonsei University, <sup>2</sup>School of Advanced Materials Science and Engineering, Sungkyunkwan University, <sup>3</sup>Center of Opto-electronic Materials, Korea Institute of Science and Technology)

**G7.06\*** [10:36 - 10:48]

**Electric-field induced modulation of oxygen vacancy in Ca doped bismuth ferrite / LIM JiSoo<sup>1</sup>,**

LEE jinhong<sup>1</sup>, YANG Chanho<sup>\*1,2</sup> (<sup>1</sup>Department of Physics, KAIST, <sup>2</sup>Institute for the NanoCentury, KAIST)

**G8.09\*** [10:36 - 10:48]

**Reinvestigation of magnetization dynamics in weakly canted antiferromagnet using terahertz magnetic pulse / KIM Tae Heon<sup>1,2</sup>,**

Gruenberg Peter<sup>2</sup>, Han Song Hee<sup>3</sup>, Cho Beong Ki<sup>\*1,2</sup> (<sup>1</sup>Gwangju Institute of Science and Technology, School of Materials Science and Engineering, <sup>2</sup>Gwangju Institute of Science and Technology, Gruenberg Center for Magnetic Nanomaterials, <sup>3</sup>Mokpo Maritime National University, Division of Navigation Science)

**G9.01\*** [9:00 - 9:12]

**Anomalous phase shift in the coherent phonon oscillation across the magnetic ordering of  $\text{Ca}_2\text{RuO}_4$  / LEE Min-Cheol<sup>\*1,2</sup>**

(<sup>1</sup>Center for Correlated Electron Systems, Institute for Basic Science, <sup>2</sup>Department of Physics and Astronomy, Seoul National University)

**G9.05\*** [9:48 - 10:00]

**Single ferroelectric transition of weak first-order in multiferroic hexagonal manganite  $\text{RMnO}_3$**   
/ SIM Hasung<sup>1,2</sup>, JEONG Jaehong<sup>1,2</sup>, CHEONG S-W<sup>3</sup>, PARK Je-Geun<sup>\*1,2</sup> (<sup>1</sup>Center for Correlated  
Electron Systems, Institute for Basic Science (IBS), <sup>2</sup>Department of Physics & Astronomy, Seoul  
National University, <sup>3</sup>Rutgers Center for Emergent Materials and Department of Physics and  
Astronomy, Rutgers University)

**G10.02\*** [09:24 - 09:36]

**400W 급 고출력 탠덤 펌핑 Yb 광섬유 레이저 개발** / 박종선<sup>1,2</sup>, 오예진<sup>1,2</sup>, 김지원<sup>1</sup>, 정훈<sup>\*2</sup>  
(<sup>1</sup>한양대학교, 응용물리학과, <sup>2</sup>생산기술연구원, 청정생산시스템연구소)

**G11.02\*** [9:12 - 9:24]

**Rejection of stray light in Thomson scattering measurements using polarization switched  
multiple roundtrip scheme for the incident optical pulse** / LEE Donggeun<sup>1</sup>, PARK Junegy<sup>1</sup>,  
CHO kyuman<sup>\*1</sup>, Ghim Young-chul<sup>2</sup> (<sup>1</sup>Department of Physics, Sogang University, <sup>2</sup>Department of  
Nuclear and Quantum Engineering, KAIST)

**G12.06\*** [10:12 - 10:24]

**Extrinsic disorder-induced magnetoresistance of monolayer graphene in contact with  $\text{BiFeO}_3$   
nano-island Array** / 전지훈<sup>1</sup>, 이덕현<sup>1</sup>, 김연수<sup>1</sup>, 오광택<sup>1</sup>, 이수연<sup>2</sup>, 박배호<sup>\*2</sup> (<sup>1</sup>Division of  
quantum phases & Devices, School of physics, Konkuk University, <sup>2</sup>Center for Electronic Materials,  
Korea Institute of Science and Technology)

**G13.07\*** [10:12 - 10:24]

**Reliability and applicability of magnetic force linear response theory: Numerical parameters,  
predictability, and orbital resolution** / YOON Hongkee<sup>1</sup>, KIM Taek Jung<sup>1</sup>, SIM Jae-Hoon<sup>1</sup>, JANG  
Seung Woo<sup>1</sup>, HAN Myung Joon<sup>\*1</sup> (<sup>1</sup>KAIST, 물리학과)

**H4.04\*** [11:36 - 11:48]

**Equation of State for Nuclear Matter within a Skyrme Interaction by Systematic Treatment of  
Hyperon Interactions** / 최순철<sup>1</sup>, 천명기<sup>\*1</sup> (<sup>1</sup>송실대학교, 물리학과)

**H6.06\*** [12:00 - 12:12]

**Analysis of threshold switching characteristics of ZnTe.** / JANG Gabriel<sup>1</sup>, KIM Taeyoon<sup>1</sup>, BEAK

Gwangho<sup>2</sup>, HYUN Daseul<sup>1</sup>, HONG Jinpyo<sup>\*1,2</sup> (<sup>1</sup>Department of Physics, Hanyang University, <sup>2</sup>Division of Nano-scale Semiconductor Engineering, Hanyang University)

**H7.08\*** [12:36 - 12:48]

**The effect of Acceptor and Donor Doping on Defects and charge transports in Mn-modified 0.67Bi1.05FeO3 - 0.33BaTiO3 ceramics** / KIM D. J.<sup>1</sup>, LEE M. H.<sup>1</sup>, SONG T. K.<sup>\*1</sup>, KIM M.-H.<sup>1</sup>, KIM W.-J.<sup>2</sup>, DO D.<sup>3</sup> (<sup>1</sup>School of Materials Science and Engineering, Changwon National University, <sup>2</sup>Department of Physics, Changwon National University, <sup>3</sup>Department of Advanced Materials Engineering,, Keimyung University)

**H7.09\*** [12:48 - 13:00]

**Stabilization of hexagonal structure in (Lu,In)FeO<sub>3</sub>** / CHO Kwanghee<sup>1</sup>, KIM Hakbeom<sup>1</sup>, PARK Soonyong<sup>\*1</sup> (<sup>1</sup>Department of Physics, Chung-Ang University)

**H8.05\*** [11:48 - 12:00]

**Interplay between magnetism and superconductivity in Pr<sub>1-x</sub>LaCe<sub>x</sub>CuO<sub>4-δ</sub>** / LEE Suheon<sup>1</sup>, LEE Wonjun<sup>1</sup>, CHOI Youngsu<sup>1</sup>, SONG Dongjoon<sup>2</sup>, PARK Seung Ryong<sup>3</sup>, Kim Changyoung<sup>4</sup>, CHOI Kwang Yong<sup>\*1</sup> (<sup>1</sup>Department of Physics, Chung-Ang University, <sup>2</sup>Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology, <sup>3</sup>Department of Physics, Incheon National University, <sup>4</sup>Department of Physics and Astronomy, Seoul National University)

**H10.02\*** [11:24 - 11:36]

**펨토초 레이저의 효율적인 2 차 조화파 생성을 위한 NLO 결정의 조건 최적화** / 김동준<sup>1,2</sup>, 이병학<sup>2</sup>, 허두창<sup>2</sup>, 김광훈<sup>2</sup>, 김지원<sup>\*1</sup> (<sup>1</sup>한양대학교, 응용물리학과, <sup>2</sup>한국전기연구원, 전자기파응용연구센터)

**H11.04\*** [11:48 - 12:00]

**Ultrafast charge dynamics: proton imaging/deflectometry** / Sharif Saqib<sup>\*1</sup>, Singh, Prashant Kumar<sup>1,2</sup>, Ahmad Hamad<sup>3</sup>, Bychenkov Valery Yur'evich<sup>4</sup>, Borghesi Marco<sup>3</sup>, Suk Hyyong<sup>1</sup>, Ter-Avetisyan Sargis<sup>5</sup> (<sup>1</sup>Department of Physics and Photon Science, Gwangju Institute of Science and Technology (GIST), <sup>2</sup>Center for Relativistic Laser Science (CoReLS), Institute for Basic Science (IBS), Korea, <sup>3</sup>Department of Physics, Queen's University Belfast, <sup>4</sup>Russian Academy of Sciences, P. N. Lebedev Physics Institute, <sup>5</sup>Attosecond Light Pulse Source (ALPS), Extreme Light Infrastructure (ELI))

**H12.02\*** [11:12 - 11:24]

**Synaptic Plasticity Selectively Activated by Polarization-Dependent Energy-Efficient Ion**

**Migration in an Ultrathin Ferroelectric Tunnel Junction** / Chansoo Yoon<sup>1</sup>, Ji Hye Lee<sup>1</sup>, Sangik Lee<sup>1</sup>, Ji Hoon Jeon<sup>1</sup>, Jun Tae Jang<sup>2</sup>, Dae Hwan Kim<sup>2</sup>, Young Heon Kim<sup>3</sup>, Bae Ho Park<sup>\*1</sup> (1 건국대학교, 물리학과, 2 국민대학교, 전자공학과, 3 한국표준과학연구소, 산업측정표준본부)