

<2020 봄 학술논문발표회 우수발표상 수상명단(구두발표부문)>

* 총 70건

A7.06

Fabrication and characterization of mixed-cation perovskite solar cells / LEE Sang Min², HA Na Young^{*1,2} (¹Department of Physics, Ajou University, ²Department of Energy Systems Research, Ajou University)

A7.07

Study on the structural phase transition of methylammonium lead halide perovskite single crystals by Raman scattering spectroscopy / NGUYEN Trang Thi Thu¹, KIM Yejin¹, YOON Seokhyun^{*1}, JUNG Hye Ri¹, JO William¹, BARI Maryam², YE Zuo-Guang² (¹Department of Physics, Ewha Womans University, ²Department of Chemistry, Simon Fraser University)

A8.08

Gate-switchable rectification in isotype van der Waals heterostructure of multilayer MoTe₂/SnS₂ with large band offsets / KIM Seonyeong¹, DU Hyewon¹, KIM Taekwang¹, SHIN Somyeong¹, SONG Hyeon-kyo¹, KIM Hansung¹, KANG Dain¹, LEE Chang-Won^{*2}, SEO Sunae^{*1} (¹Sejong University, ²School of Basic Sciences, Hanbat National University)

A9.05

Spectra of block structured community matrix of mutualistic networks / LEE Hyunwoo¹, LEE Deok-Sun^{*1} (¹Department of Physics, Inha University)

B1.03

Search for new physics in dilepton events using asymmetry / YANG Un-ki^{*1}, SEO HyonSan¹, LEE Sang Eun¹, JEON Si Hyun¹, JUN Won¹ (¹Department of physics and astronomy, Seoul National University)

B1.05

Measurement |Vcb| in Hadron Collisions with Top Pair Semi-Leptonic Decay Channel. / KIM Bogyoom¹, CHOI Suyong^{*1} (¹Department of Physics, Korea University)

B2.05

Spinning binary Hamiltonian at first post-Minkowskian order from scattering amplitudes / CHUNG Ming-Zhi¹, HUANG Yu-Tin¹, KIM Jung-Wook², LEE Sangmin^{*2,3} (¹Department of Physics and

Astronomy, National Taiwan University, ²Department of Physics and Astronomy, Seoul National University, ³College of Liberal Studies, Seoul National University)

B3.04

Cross-section measurement for K-p interactions at 1.8 GeV/c / JUNG Wooseung¹, AHN Jung Keun^{*1}, FOR THE E42 Collaboration^{1,2} (¹Department of Physics, Korea University, ²ASRC, JAEA)

B6.05

Study of thin molecular spin qubit layers using a surface-sensitive electron spin resonance spectrometer / JEONG Yejin^{1,2}, COLAZZO Luciano^{1,2}, CHO Franklin Hyunil^{1,2}, YU Jisoo^{1,2}, LIU Junjie⁴, ARDAVAN Arzhang⁴, BOERO Giovanni³, HEINRICH Andreas Joachim^{1,2}, DONATI Fabio^{*1,2} (¹Department of Physics, Ewha Womans University, ²Center for Quantum Nanoscience (QNS), Institute for Basic Science (IBS),³Laboratory for Microsystems, Ecole Polytechnique Fédérale de Lausanne (EPFL),⁴The Clarendon Laboratory, Department of Physics, University of Oxford)

B8.05

The various optical logic circuits for visible light communications based on highly transparent phototransistors with oxide semiconductor and quantum dots / KIM Byung Jun¹, PARK Sungho¹, KIM Tae Yeon¹, KANG Seong Jun^{*1} (¹정보전자신소재공학과, Kyung Hee University)

B9.08

Topological Defect in Janus Colloidal Crystal / PARK Myeonggon^{1,2}, GRANICK Steve^{*1,3} (¹Center for Soft and Living Matter, IBS, ²Department of Physics, UNIST, ³Department of Chemistry, UNIST)

B12.03

Measuring optical activity using heralded single photons / LEE Kwang Geol^{*1}, YOON Seung-Jin¹, LEE Changhyoup² (¹Hanyang University, ²Institute of Theoretical Solid State Physics, Karlsruhe Institute of Technology)

B12.07

A toolbox for improving the performance of a solid-state single-photon source / CHA Jihun^{*1,2}, HOWARD Lewis^{1,2}, TRANTER Aaron³, SU Ming^{1,2}, ALMEIDA Marcelo Pereira de^{1,2}, WHITE Andrew Gerard^{1,2} (¹School of Mathematics & Physics, The University of Queensland,²Centre of Excellence for Engineered Quantum Systems, Australian Research Council,³Department of Quantum Science, AUSTRALIAN NATIONAL UNIVERSITY)

B16.06

Single-molecule studies on cotranscriptional G-quadruplex formation induced by R-loop

formation / LIM Gunhyoung¹, HOHNG Sungchul*¹ (¹Seoul National University)

C1.07

Search for high mass spin-0 resonances in semileptonic WW to lvqq final state at $\sqrt{s} = 13\text{TeV}$ in CMS experiment / YANG Un-ki*¹, CHOI Junho¹ (¹Department of physics and astronomy, Seoul National University)

C2.03

Primordial Black Holes in Higgs-R2 Inflation as a whole dark matter / CHEONG Dhong Yeon¹, LEE Sung Mook¹, PARK Seongchan*¹ (¹Yonsei University)

C2.07

New reactor experiments to search for a new decay channel / LEE Hye-Sung*¹, LEE Young-Min¹, DENIVERVILLE Patrick² (¹Department of Physics, KAIST, ²T-2, Nuclear and Particle Physics, Astrophysics and Cosmology, Los Alamos National Laboratory)

C3.02

The σ and ρ coupling constants for charmed and bottom mesons from bootstrap method / KIM Hee-Jin¹, KIM Hyun-Chul*¹ (¹Inha University)

C6.03

Superconductivity emerging from a stripe charge order in IrTe₂ / PARK Sungyu¹, KIM So Young^{1,2}, KIM Hyung Kug², KIM Minjeong^{1,3}, WON Choong Jae⁴, CHEONG Sang-Wook^{5,6}, KIM B. J.^{1,2}, YEOM H. W.^{1,2}, KIM Jonghwan*^{1,3}, KIM Tae-Hwan*², KIM Jun Sung*^{1,2} (¹Center for Artificial Low Dimensional Electronic Systems, IBS, ²Department of Physics, POSTECH,³Department of Material Science and Engineering, POSTECH,⁴Max Planck POSTECH center for Complex Phase Materials, POSTECH,⁵Laboratory for Pohang Emergent Materials, POSTECH,⁶Rutgers Center for Emergent Materials, Rutgers university)

C6.04

Effect of local density of states on the impurity-induced many-body ground states in superconductivity / SONG Sang Yong¹, SEO Jungpil*¹ (¹Emerging Materials Science, DGIST)

C9.07

First passage time of searchers in the presence of strong attractions / CHOI Myeongseon², RO Sunghan³, KIM Yong Woon*^{1,2} (¹Graduate School of Nanoscience and Technology, KAIST, ²Department of Physics, KAIST, ³Department of Physics, Technion)

C11.01

Electrostatic-electromagnetic wave interaction via cold-hot wave coupling / LEE MIN UK¹, YUN GUNSU^{*1,2} (¹Division of Advanced Nuclear Engineering, POSTECH,²Department of Physics, POSTECH)

C11.05

Monte Carlo study of imaging plate response to laser-driven aluminum ion beams / WON Junho¹, SONG Jaehyun¹, PALANIYAPPAN S.², GAUTIER D. C.², JEONG Wonhee ¹, FERNÁNDEZ J. C.², BANG Woosuk^{*1} (¹Department of Physics and Photon Science, GIST, ²P-24, Los Alamos National Laboratory)

C12.02

Spatiotemporal characterization of a femtosecond laser pulse using tunneling ionization / CHO Wosik^{1,2}, KIM Kyung Taec^{*1,2} (¹Department of Physics and Photon Science, GIST, ²Center for relativistic laser science, IBS)

C16.04

Non-invasive three-dimensional (3D) imaging and quantitative characterisation of vasculogenesis of 3D cultured endothelial cells inside a microfluidic chip using optical diffraction tomography (ODT) / PARK YongKeun^{*1,3}, LEE Chungha¹, KIM Seunggyu², HUGONNET Herve¹, LEE Moosung¹, JEON Jessie S^{2,3}, PARK Weisun¹ (¹Physics, KAIST, ²Mechanical engineering, KAIST, ³Health Science and Technology, KAIST)

D1.03

Performance of high-momentum muons at CMS / OH Minseok^{*1}, YOO Hwidong^{*2} (¹Department of Physics, Seoul National University, ²Department of Physics, Yonsei University)

D1.04

Identification of a pair of di-lepton with boosted signature in the CMS experiment / KO Sanghyun¹, YOO Hwidong^{*2} (¹Department of Physics, Seoul National University, ²Yonsei University)

D3.01

Prediction of neutron drip line location in the deformed relativistic Hartree-Bogoliubov theory with continuum / IN Eun Jin¹, PAPAKONSTANTINOOU Panagiota², KIM Youngman², HONG Seung Woo^{*3} (¹Department of Energy Science, Sungkyunkwan University, ²RISP, IBS, ³Sungkyunkwan University)

D3.02

Non-zero transverse single spin asymmetry of very forward π^0 in polarized $p + p$ collisions at $\sqrt{s} = 510$ GeV / KIM Minho^{*1} (1Department of Physics, Korea University)

D8.05

Graphene based nano-electro-mechanical resonator for radio application / JE Yugyeong^{1,2}, SHIN Dong-Hoon^{1,2}, YOON Juhee^{1,2}, LEE Sang-Wook^{*1,2} (1Ewha Womans University, 2Department of Physics, Ewha Womans University)

D9.07

Glassy dynamics of compressed pulmonary surfactant monolayers / KIM Yeonghoon¹, LIEKKINEN Juho², MARTINEZ-SEARA Hector³, JAVANAINEN Matti³, JEON Jae-Hyung^{*1} (1Department of Physics, POSTECH, 2Department of Physics, University of Helsinki, 3Institute of Organic Chemistry and Biochemistry, Czech Academy of Sciences)

D13.03

Emission of entangled matter-wave jet from spinor Bose-Einstein condensates / KIM Kyungtae¹, HUR Junhyeok¹, HUH SeungJung¹, KWON Kiryang¹, CHOI Soonwon², CHOI Jae Yoon^{*1} (1Physics Department, KAIST, 2Department of Physics, UC Berkeley)

D14.01

NaF layer insertion for improving efficiency of flexible solar cells in kesterite $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ solar cells / KIM Juran¹, KIM Sammi², YANG Kee-Jeong², KIM Dae-Hwan², KANG Jin-Kyu², JO William^{*1} (1Department of Physics, Ewha Womans University, 2Convergence Research Center for Solar Energy, DGIST)

D14.05

Growth and drug reaction monitoring of NIH 3T3 cells using impedance biosensor / LEE Ga Young^{1,2}, JEONG Jae Hun^{1,2}, SHIN Soo Yong^{1,3}, JEON Sung Ho^{1,3}, JANG Moon Gyu^{*1,2,4} (1Hallym University, 2School of Nano Convergence Technology, Hallym University, 3Department of Life Science and Multidisciplinary Institute, Hallym University, 4Center of Nano Convergence Technology, Hallym University)

D15.04

Implication of Perturbative Unitarity to Quasi-Single Field Inflation / KIM Suro^{*1}, NOUMI Toshifumi¹, TAKEUCHI Keito¹, ZHOU Siyi² (1Department of Physics Faculty of Science, Kobe University, 2Department of Physics, Stockholm University)

E1.04

Simulation for Particle Shower in EM Calorimeter with Deep Learning (Generative Adversarial Network) / LEE Jason Sang Hun^{*1}, PARK Inkyu¹, WATSON Ian James¹, RYU Min Sang¹, PARK Jong Suk¹, LEE Yunjae¹, KIM Jua¹, CHOI Suyong³, KO Sanghyun⁴, LEE Seh Wook², LEE Junghyun², YOO Hwidong⁵, KIM Minsoo⁵, HWANG Kyuyeong⁵, EO Yun⁵ (¹Department of Physics, University of Seoul, ²Department of Physics, Kyungpook National University, ³Department of Physics, Korea University, ⁴Department of Physics, Seoul National University, ⁵Department of Physics, Yonsei University)

E2.02

Status of AMoRE-I / KIM HAN BEOM^{*1,2}, ON AMoRE Collaboration The behalf of² (¹Department of Physics and Astronomy, Seoul National University, ²Center for Underground Physics, IBS)

E3.03

Elliptic flow studies of Upsilon states in PbPb collisions with the CMS experiment / BAK Gyeonghwan^{*1}, MOON DongHo¹, KIM Yongsun³, KIM Hyunchul¹, LEE Hanseul¹, PARK JaeBeom² (¹Department of Physics, Chonnam National University, ²Department of Physics, Korea University, ³Department of Physics and Astronomy, Sejong University)

E4.02

Observation of Kondo hybridization with orbital-selective Mott phase in 4d $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$ / KIM Minsoo^{1,2}, KYUNG Wonshik^{1,2}, KIM Changyoung^{*1,2} (¹Department of Physics and Astronomy, Seoul National University, ²CCES (IBS), CCES (IBS),³Advanced Light Source, Lawrence Berkeley National Laboratory, ⁴AIST, AIST)

E6.03

Extension of multi-space density functional formalism to region-specific optical excitations / YEO Hyeonwoo¹, LEE Juho¹, KIM Yong-Hoon^{*1} (¹School of Electrical Engineering, KAIST)

E9.03

A case study of the effects of ionic groups on the self-assembly: lyotropic chromonic liquid crystals Sunset Yellow FCF / EUN Jonghee¹, CHEON Jiyong¹, KIM Sung-Jo¹, JEONG Joonwoo^{*1} (¹Physics, UNIST)

E10.03

컴퓨팅 기반 물리 실험 보고서 작성이 과학고등학교 학생들의 탐구능력 및 태도에 미치는 영향 / LEE Jun Haeng¹, JI Yongrae², CHOI Wooseok³, CHAE Seung Chul^{*1} (¹Dept. of Physics Education, Seoul National University, ²Dept. of Physics Education, Suncheon National University, ³Dept. of Physics, Hansung Science High School)

E13.05

Detection of radio-frequency magnetic fields by optically pumped Rb atomic magnetometers

/ YU Ye Jin¹, LEE Hyun Joon², CHO In-Kui², MOON Han Seb*¹ (¹Pusan National University, ²Radio & Satellite Research Division, ETRI)

E14.01

Colloidal 2D van der Waals Template for Synthesis of Uniform Bimetallic Oxide Nanoparticles

/ LEE Kang-Nyeong^{1,2}, PARK Dae Young¹, CHOI Geunchang¹, NGUYEN Duc Anh¹, CHOI Young Chul², JEONG Mun Seok*¹ (¹Department of Energy Science, Sungkyunkwan University, ²Korea Institute of Carbon Convergence Technology, Korea Institute of Carbon Convergence Technology)

E15.05

Preliminary analysis on energies and arrival directions of UHECRs detected by TAX4 Surface

Detectors / JEONG Hyomin^{1,2}, LEE Kwangho^{1,2}, KIM Sangwoo^{1,2}, KIM Minhyo^{1,2}, KIDO Eiji⁴, PARK IL Hung^{1,2}, YANG Jongman², CHEON Byeong Gu³, SAGAWA Hiroyuki⁴ (¹Physics, Sungkyunkwan University, ²Cooperation center for Cosmic Ray Research, Sungkyunkwan University, ³Physics, Hanyang University, ⁴Institute for Cosmic Ray Research, University of Tokyo)

F1.02

Test beam results from LGAD sensor on endcap timing layer for CMS phase-2 upgrade /

MOON Chang-Seong*¹, LEE Hakseong¹ (¹Department of Physics, Kyungpook National University)

F3.01

Development of Water Cherenkov Detector for J-PARC H-dibaryon Search Experiment /

CHOI Sung Wook¹, AHN Jung Keun*¹ (¹Department of Physics, Korea University)

F4.05

Visualizing orbital content of electronic bands in anisotropic 2D semiconducting ReSe₂ /

CHOI Byoung¹, ULSTRUP Søren^{2,3}, GUNASEKERA Surani M.⁴, KIM Jiho⁵, LIM Soo Yeon⁶, MORESCHINI Luca³, OH Ji Seop^{3,7,8}, CHUN Seung-Hyun⁹, JOZWIAK Chris³, BOSTWICK Aaron³, ROTENBERG Eli³, CHEONG Hyeonsik⁶, LYO Inhwan⁵, KRUCZYNSKI Marcin Mucha⁴, CHANG Young Jun*¹ (¹Department of Physics, University of Seoul, ²Department of Physics and Astronomy, Aarhus University, Denmark, ³Advanced Light Source (ALS), E. O. Lawrence Berkeley National Laboratory, Berkeley, USA, ⁴Centre for Nanoscience and Nanotechnology and Department of Physics, University of Bath, United Kingdom, ⁵Department of Physics, Yonsei University, ⁶Department of Physics, Sogang University, ⁷Center for Correlated Electron Systems, Institute for Basic Science (IBS), ⁸Department of Physics and Astronomy, Seoul National University, ⁹Department of Physics, Sejong

University)

F5.06

Ultrafast Energy Relaxation of 2D Hot Electrons generated from a Quantum Dot / PARK Dongsung T.¹, KIM Dongkun², KIM Uhjin², JUNG Hwanchul³, CHOI Juho¹, HAN Cheolhee¹, CHUNG Yunchul³, SIM H.-S.¹, CHOI Hyoung Soon*¹, CHOI Hyung Kook*² (¹Physics, KAIST, ²Physics, Jeonbuk National University, ³Physics, Pusan National University)

F6.05

First-principles study of the hydrogen-bond network in water at the biased electrode interface / LEE Juho¹, KIM Yong-Hoon*¹ (¹School of Electrical Engineering, KAIST)

F6.08 [16:44 - 16:56]

Phonon softening in the room-temperature organic-Inorganic hybrid Perovskites / LEE Seungjun¹, KWON Young-Kyun*¹ (¹Department of Physics, Kyung Hee University)

F8.07

Room Temperature Magnetoresistance of the Graphene-based Spintronic Devices / DO Thi Nga^{1,2}, LEE Sehee³, HWANG Chanyoung³, KIM Tae Hee*^{1,2} (¹IBS Center for Quantum Nanoscience, Ewha Womans University, ²Department of Physics, Ewha Womans University, ³Korea Research Institute of Standards and Science, Daejeon, KRISS)

F14.04

Origin of dual peak nature and Rashba splitting in halide perovskite single crystals / JANG Joon Ik*¹, RYU Hongsun¹, MCCALL Kyle², PARK Dae Young³, KANATZIDIS Mercuri G.², JEONG Mun Seok³ (¹Physics, Sogang University, ²Chemistry, Northwestern University, ³Energy science, Sungkyunkwan University)

G1.06

Observation of cosmic muon variation at RENO / LEE Dong Ha*¹, LEE Hyungi¹, KIM Wooyoung², PAC Myounglyul³, CHOI Junho³, JANG Hanil⁴, KWON Eunhyang¹, KIM Sangyong¹, KIM Soobong¹, SEO Hyunkwan¹, KIM Jonggeon⁵, SEO Jiwoong⁵, YU Intae⁵, JEON Sanghoon⁵, JEONG Daeun⁵, GWAK Piljun⁶, KIM Jaeyool⁶, MOON Dongho⁶, SEO Junhoo⁶, SIN Changdong⁶, LIM Intaek⁶, JOO Kyungkwang⁶, ATIF Zohaib⁶, JANG Jeeseung⁷, YOO Jonghee⁸, YANG Byeongsu⁸, JU Kiwon⁸, YOO Minsang⁸, YUN Seokkyung⁸ (¹Seoul National University, ²Department of Physics, Kyungpook National University, ³Department of Physics, Dongshin University, ⁴Department of Physics, Seoyeong University, ⁵Department of Physics, Sungkyunkwan University, ⁶Department of Physics,

Chonnam National University, ⁷Department of Physics, GIST, ⁸Department of Physics, KAIST)

G3.05

GEM TPC prototype for low-energy heavy-ion beam experiments / KIM Shin Hyung^{*1}, AHN Jung Keun¹ (¹Department of Physics, Korea University)

G4.06

Enhanced ferroelectric properties in Si doped HfO₂ thin films via oxygen vacancies controlling / CHAE Seung Chul^{*1}, LEE Kyoungjun¹ (¹Dept. of Physics Education, Seoul National University)

G5.06

Many-body approach to non-Hermitian physics in fermionic systems / LEE Hyunjik^{*1,2,3}, LEE Eunwoo^{1,2,3}, YANG Bohm-Jung^{1,2,3} (¹Center for Correlated Electron Systems, IBS, ²Physics & Astronomy, Seoul National University, ³Center for Theoretical Physics, Seoul National University)

G6.02

Reversible transformation of defective domains in VO₂ films using x-ray scattering technique / HA Sung Soo¹, CHOI SukJune², OH Ho Jun², KWON Ouyoung², HWANG Byeong Jun², CHOI Ye-Seul⁵, KIM Jin Woo², PARK Sungkyun⁵, KANG Hyon Chol⁴, NOH Do Young^{*3} (¹School of Materials Science and Engineering, GIST, ²Department of Physics and Photon Science, GIST, ³IBS, IBS, ⁴Department of Materials Science and Engineering, Chosun University, ⁵Department of Physics, Pusan National University)

G7.03

Reduction of Annealing Temperature of Hf_{0.5}Zr_{0.5}O₂ Thin Films via Deep-Ultraviolet Irradiation / JOH Hyunjin¹, ANOOP Gopinathan¹, DAS Dipjyoti², LEE Won Jun¹, LEE Jun Young¹, SEOL WooJun¹, JEON Sanghun², YOON Myung Han¹, JO Ji Young^{*1} (¹School of Materials Science and Engineering, GIST, ²School of Electrical Engineering, KAIST)

G7.05

Self-assembly of polyhedral plasmonic nanoparticles for unnaturally high refractive index optical metamaterial / HUH Ji-Hyeok¹, LEE Jaewon¹, LEE Seungwoo^{*1,2,3} (¹Graduate School of Converging Sci & Tech, Korea University, ²Department of Biomicrosystem Technology, Korea University, ³KU Photonics Center, Korea University)

G8.04

Unidirectional alignment of AgCN microwires on 1T' layered crystals / JANG Myeongjin^{1,2}, LEE Yangjin^{1,2}, BAE Hyeonhu³, NA Woongki⁴, CHEONG Hyeonsik⁴, LEE Hoonkyung³, KIM Kwanyo^{*1,2}

(¹Physics, Yonsei University, ²Center for Nanomedicine, IBS, ³Physics, Konkuk University, ⁴Physics, Sogang University)

G8.06

Fabrication and Characterizations of MoS₂ Monolayers on Plasmonic Au Nanogratings / KWON Soyeong¹, SONG Jungeun¹, KIM Bora¹, LEE Sang Wook¹, KIM Dong-Wook¹ (¹Department of Physics, Ewha Womans University)

G15.03

Estimation of acceleration noise for SISA (Stellar Interferometer Space Antenna) / LEE KWANGHO¹, PARK IL Hung¹, HONG GIHAN¹, KIM MINHYO¹, KIM CHANYEOL¹, WON EUNIL² (¹Physics, Sungkyunkwan University, ²Physics, Korea University)

G15.06

Cosmic-ray Spectra of Heavy Nuclei Using the ISS-CREAM Instrument / KANG Sinchul¹, KIM Hong Joo¹, PARK Hwanbae¹, LEE Jik¹, JEONG Dongwoo¹, JEON Hyebin¹, PARK Jeongmin², SEOK Hwangyong³, HYUN Hyojung⁴, LEE Moohyun⁵, SEO Eunsuk⁶ (¹Department of Physics, Kyungpook National University, ²Advanced Radiation Technology Institute, Korea Atomic Energy Research Institute, ³Korea Multi-purpose Accelerator Complex, Korea Atomic Energy Research Institute, ⁴4th generation synchrotron radiation accelerator institute, Pohang Accelerator Laboratory, ⁵Center for Underground Physics, Institute for Basic Science, ⁶Department of Physics, University of Maryland)

H5.01

Correlation between Structural Phase Transition and Surface Chemical Properties of thin film SrRuO₃/SrTiO₃ (001) / MUN Bongjin Simon¹, LIM Hojoon¹, KIM Dongwoo¹, HA Sung Soo², SEO Okkyun³, LEE Sung Su², KIM Jinwoo⁴, KIM Ki-jeong⁴, RAMIREZ Lucia Perez⁵, GALLET Jean-Jacques^{5,6}, BOURNEL Fabrice^{5,6}, JO Ji Young², NEMSAK Slavomir⁷, NOH Do Young¹ (¹Department of Physics and Photon Science, GIST, ²School of Materials Science and Engineering, GIST, ³Research Network and Facility Services Division, National Institute for Materials Science, ⁴Pohang Accelerator Laboratory, POSTECH, ⁵Laboratoire de Chimie Physique Matière et Rayonnement, Sorbonne Université, ⁶L'Orme des Merisiers, Synchrotron SOLEIL, ⁷Advanced Light Source, Lawrence Berkeley National Laboratory)

H5.07

A plausible method of preparing the ideal p-n junction interface of a thermoelectric material by surface doping / LEE Ji-Eun^{1,2}, HWANG Jinwoong^{1,3}, RYU Hyejin², KANG Minhee¹, KIM Kyoo⁴, KIM Yongsam⁵, KIM Namdong⁵, DUONG Anh Tuan⁶, CHO Sunglae⁶, MO Sung-Kwan³, YANG

Imjeong¹, HWANG Choongyu^{*1} (¹Physics, Pusan National University, ²Center for Spintronics, Korea Institute of Science and Technology, ³Advanced Light Source, Lawrence Berkeley National Laboratory, ⁴Center for Complex Phase Materials, Max Planck-POSTECH/Hsinchu Center for Complex Phase Materials,⁵Pohang Accelerator Laboratory, Pohang University of Science and Technology, ⁶Physics, University of Ulsan)

H5.08

Enhanced Anti-Stokes Photoluminescence at Nano-Pyramidal Tips Under Acoustic Phonon Pumping / HOSSEN Raqibul¹, HWANG Hyeong-Yong¹, LIM Seung-Hyuk², SONG Hyun-Gyu², WOO Kie-Young², CHO Yong-Hoon², JHO Young Dahl^{*1} (¹School of Electrical and Computer Engineering, GIST, ²Department of Physics, KAIST)

H6.01

Nearly Flat Bands in Twisted Graphene on Bilayer Graphene (tGBG) / PARK Youngju¹, CHITTARI Bheema Lingam¹, JUNG Jeil^{*1} (¹Department of Physics, University of Seoul)

H6.02

Quantum hybridization negative differential resistance in vertical graphene heterostructures from ab initio / KIM Tae Hyung¹, LEE Juho¹, KIM Han Seul¹, LEE Ryong Gyu¹, KIM Yong-Hoon^{*1} (¹School of Electrical Engineering, KAIST)

H7.05

Achieving superconducting Sr₂RuO₄ thin films by controlling structural defects / KIM Jinkwon^{1,2}, MUN Junsik³, PALOMARES GARCIA Carla⁴, JO Yongcheol⁵, KIM Jeong Rae^{1,2}, KO Eun Kyo^{1,2}, CHANG Seo Hyung⁶, CHUNG Suk Bum^{7,8,9}, KIM Miyoung³, IM Hyunsik⁵, ROBINSON Jason W. A.⁴, KIM Changyoung^{1,2}, MAENO Yoshiteru¹⁰, WANG Lingfei^{1,2}, NOH Tae Won^{*1,2} (¹Center for Correlated Electron Systems, Institute for Basic Science,²Department of Physics and Astronomy, Seoul National University, ³Department of Materials Science and Engineering and Research Institute of Advanced Materials, Seoul National University, ⁴Department of Materials Science and Metallurgy, University of Cambridge,⁵Division of Physics and Semiconductor Science, Dongguk University, ⁶Department of Physics, Chung-Ang University, ⁷Department of Physics, University of Seoul,⁸Natural Science Research Institute, University of Seoul,⁹School of Physics, Korea Institute for Advanced Study, ¹⁰Department of Physics, Kyoto University)