

<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 |V_{cb}| in Hadron Collisions with Top Pair Semi-Leptonic Decay Channel. / KIM Bogyom¹, 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 Junjie ⁴, 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, PAPA-KONSTANTINOU 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 Hector ³, JAVANAINEN Matti ³, 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 Siyi ² (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, Sunchon 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 /

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 Mercouri 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 Jun ¹, LEE Jun Young ¹, 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 Kwanpyo^{*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-Wook^{*1} (¹Department of Physics, Ewha Womans University)

G15.03

Estimation of acceleration noise for SISA (Stellar Interferometer Space Antenna) / LEE KWANGHO¹, PARK IL Hung^{*1}, 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 Joo^{*1}, 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 Simon^{*1}, 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 Young^{*1} (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 Yongcheol ⁵, KIM Jeong Rae^{1,2}, KO Eun Kyo^{1,2}, CHANG Seo Hyoung⁶, CHUNG Suk Bum^{7,8,9}, KIM Miyoung³, IM Hyunsik ⁵, 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)