

<2021 가을 학술논문발표회 우수발표상 수상명단(구두발표부문)>

* 총 72건

A1.08*

The measurement of forward-backward asymmetry in Drell-Yan with a single b-jet events at LHC / YANG Un-ki^{*1}, JUN Won¹, SEO HyonSan¹ (¹Dept. of Physics and Astronomy, Seoul National University)

A3.02*

Performance of a prototype Active target TPC / KIM Geunwoo¹, KIM Yongsun^{*1} (¹Sejong University)

A3.05*

Improvement for Prototype Beam Drift Chamber (BDC) of the LAMPS Experiment / SEO Junhu¹, MOON Dong Ho^{*1}, KIM Hyunchul¹, BAE Yunseul¹, HWANG Jaein² (¹Dept. of Physics, Chonnam National University, ²Dept. of Physics, Korea University)

A8.02*

Sr₂IrO₄/Sr₃Ir₂O superlattice for a model 2D quantum Heisenberg antiferromagnet / KIM Hoon^{1,2}, BERTINSHAW Joel³, PORRAS Juan³, KEIMER Bernhard³, KIM Jungho⁴, KIM J.-W.⁴, KIM Jimin^{1,2}, KIM Jonghwan^{2,5}, NOH Gahee⁵, KIM Gi-Yeop⁵, CHOI Si-Young⁵, KIM Bumjoon^{*1,2} (¹Dept. of Physics, POSTECH, ²Center for Artificial Low Dimensional Electronic Systems, Institute for Basic Science, ³Solid State Spectroscopy, Max Planck Institute for Solid State Research, ⁴Advanced Photon Source, Argonne National Laboratory, ⁵Department of Materials Science and Engineering, POSTECH)

A9.07*

Spin-lattice coupling in monolayer VTe₂ / KIEM Do Hoon¹, JEONG Min Yong¹, YOON Hongkee¹, HAN Myung Joon^{*1} (¹Dept. of Physics, KAIST)

A10.01*

Commensurate C₆₀ thin film crystal on black phosphorus for van der Waals vertical transistors / KIM Kwanpyo^{*1}, YUN Tae Keun¹ (¹Dept. of Physics, Yonsei University)

A10.04*

VdW Schottky gate metal-semiconductor field-effect approaching the Boltzmann switching limit / KIM Yeon Ho¹, LEE Donghun¹, JIANG Wei², KIM Jong Chan³, HUH Woong¹, KIM Tae Soo⁴, SO Jae-Pil⁵, LEE Jae Ho¹, PARK Hong-Gyu⁵, KANG Kibum⁴, JEONG Hu Young³, LOW Tony², LEE Chul-Ho^{*1,6} (¹KU-KIST Graduate School of Converging Science and Technology, Korea University, ²Department of Electrical and Computer Engineering, University of Minnesota, ³Department of

Materials Science and Engineering, UNIST, ⁴Department of Materials Science and Engineering, KAIST, ⁵Dept. of Physics, Korea University, ⁶Department of Integrative Energy Engineering, Korea University)

A11.03*

Neuromorphic devices based on electrochemical metallization in the ferroelectric material /

PARK Bae Ho^{*1}, YOON Chansoo¹, LEE Ji Hye², KIM Young Heon³ (¹Dept. of Physics, Konkuk University, ²Dept. of Physics and Astronomy, Seoul National University, ³Graduate School of Analytical Science and Technology, Chungnam National University)

A11.05*

NaF doping layer in flexible Cu₂ZnSn(S,Se)₄ thin film solar cells: improvement of photogenerated carrier transport /

PARK Ha Kyung¹, CHO Yuna^{1,2}, KIM Sammi³, YANG Kee-Jeong³, KIM Dae-Hwan³, KANG Jin-Kyu³, JO William^{*1,2} (¹Dept. of Physics, Ewha Womans University, ²New and Renewable Energy Research Center, Ewha Womans University, ³Division of Energy Technology, Daegu Gyeongbuk Institute of Science and Technology)

A16.04*

Observation of magnetic-field-induced optical vortex-antivortex pair /

KIM Dongha^{*1}, BAUCOUR Arthur², CHOI Youn-Seok³, SHIN Jonghwa², SEO Min-Kyo¹ (¹Dept. of Physics, KAIST, ²Department of Materials Science and Engineering, KAIST, ³Department of Chemistry, KAIST)

A19.02*

Focused-ion-beam induced nanoscale luminescence quenching for high purity quantum emitters /

CHOI Minho², JUN Seongmoon², WOO Kie Young², SONG Hyun Gyu², YEO Hwanseop², CHOI Sunghan², PARK Doyoun², PARK Chung-Hyun², CHO Yong Hoon^{*2} (¹KAIST, ²Dept. of Physics and KI for the NanoCentury, KAIST)

A20.03*

Structural dissection of human glucose transporter folding reveals evolutionary balancing between foldability and functionality /

LEE Chanwoo¹, CHOI Hyun-Kyu¹, KANG Hyunook¹, KIM Hyun Gyu¹, PHILLIPS Ben², PARK Soohyung³, TUMESCHEIT Charlotte¹, KIM Sang Ah¹, HONG Heedeok⁴, STEINEGGER Martin¹, IM Wonpil³, MILLER Elizabeth², CHOI Hee-Jung¹, YOON Tae-Young^{*1} (¹Seoul National University, ²Laboratory of Molecular Biology, Medical Research Council, ³Departments of Biological Sciences and Chemistry, Lehigh University, ⁴Department of Chemistry and Department of Biochemistry & Molecular Biology, Michigan State University)

B1.07*

ALICE실험 FoCal 검출기에 사용할 PIN구조를 갖는 실리콘 센서의 양성자 빔에 의한 손상 평가 /

KIM Dong Geon¹, NOH Ikje², PARK Tea Yong³, KIM Yong Kyun^{*1}, KIM Yoonseok^{2,3}, HAN Younghoon³, KWON Yungil³ (¹Department of Nuclear Engineering, Hanyang University, ²Department of Basic

Science, Republic of Korea Naval Academy, ³Dept. of Physics, Yonsei University)

B2.01*

Constructing the general three-point vertices effectively / JEONG Jae Hoon^{*1}, CHOI Seong Youl¹
(¹physics, Chonbuk National University)

B3.06*

MC-based feasibility study of a new sampling calorimeter for measuring the γ incident angle
/ KIM Junlee^{*1}, KIM Eun-Joo¹, KIM YoungJun², AHN JungKeun², LIM GeiYoub³ (¹Division of Science Education, Jeonbuk National University, ²Dept. of Physics, Korea University, ³IPNS, High Energy Accelerator Research Organization, KEK)

B3.09*

Simulation of active target time projection chamber for LAMPS experiment / LEE Seunghwan¹,
KIM Yongsun^{*1} (¹Sejong University)

B8.03*

Electric field induced anomalous Hall effects and nematic phases in carrier doped rhombohedral trilayer graphene / PARK Youngju¹, MACDONALD Allan H.³, JUNG Jeil^{*1,2} (¹Dept. of Physics, University of Seoul, ²Department of Smart Cities, University of Seoul, ³Dept. of Physics, The University of Texas at Austin, USA)

B9.04*

Characterization of magnetic interactions using a single atomic sensor in a tunnel junction / KIM Jinkyung^{1,2}, JANG Won-jun³, BUI Hong Thi^{1,2}, CHOI Deung-Jang^{5,6,7}, WOLF Christoph^{1,4}, DELGADO Fernando⁸, CHEN Yi^{1,4}, KRYLOV Denis^{1,4}, LEE Soonhyeong^{1,4}, YOON Sangwon^{1,4}, LUTZ Christopher⁹, HEINRICH Andreas^{*1,2}, BAE Yujeong^{*1,2} (¹Center for Quantum Nanoscience, IBS, ²Dept. of Physics, Ewha Womans University, ³Nano Electronics, Samsung Advanced Institute of Technology, ⁴Ewha Womans University, Ewha Womans University, ⁵Centro de Física de Materiales, CFM/MPC (CSIC-UPV/EHU), ⁶Dept. of Physics, Donostia International Physics Center (DIPC), ⁷Basque Foundation for Science, Ikerbasque, ⁸Dept. of Physics, Instituto de estudios avanzados IUDEA, ⁹Almaden Research Center, IBM)

B12.03*

Polarized-Raman scattering study of methylammonium ion orientation in hybrid halide perovskite $\text{CH}_3\text{NH}_3\text{PbCl}_3$ single crystals / YOON Seokhyun^{*1}, KIM Yejin¹, BAE Sounghmin², PARK Joohee¹, NGUYEN Trang Thi Thu³, JUNG Hyeri¹, JO William¹, KIM Yong-Hoon⁴, RAEBIGER Hannes² (¹Dept. of Physics, Ewha Womans University, ²Dept. of Physics, Yokohama National University, ³Dept. of Physics, Danang University of Science and Technology, ⁴ School of Electrical Engineering, KAIST)

B13.04*

Does revisit help target search on complex networks? / JEONG Hawoong^{*1,2}, SON Gangmin¹, BAE Youngkyoung¹ (¹Dept. of Physics, KAIST, ²Center for Complex Systems, KAIST)

B19.02*

Effects of laser irradiation on two-dimensional $\text{Bi}_2\text{Te}_3/\text{MoS}_2$ / LEE Taegeon¹, AHN Ji-Hoon², RHO Heesuk^{*1} (¹Dept. of Physics, Jeonbuk National University, ²Department of Materials Science and Chemical Engineering, Hanyang University)

C3.06*

Study on the flow of the identified particles in p-Pb collisions / JI SuJeong^{*1}, LIM SangHoon¹ (¹Dept. of Physics, Pusan National University)

C3.08*

Heavy-flavor and quarkonia measurements with ALICE 3 / SEO Jinjoo^{*1} (¹Dept. of Physics, Inha University)

C12.04*

Observation of Biexcitons in Three-Dimensional Halide Perovskite Single Crystals / RYU Hongsun¹, PARK Jeehong², YI Yeonjin^{*2}, JANG Joon Ik^{*1} (¹Physics, Sogang University, ²Dept. of Physics, Yonsei University)

C13.03*

Multiple phase transitions at interface induced by orientational interaction / PARK Myeonggon^{1,2}, GRANICK Steve^{*1,3} (¹Center for Soft and Living Matter, IBS, ²Dept. of Physics, UNIST, ³Department of Chemistry, UNIST)

C19.03*

Ultrathin CdS-anchored MOCVD-grown Hierarchical ZnO-Si Nanowires for Improved Photoelectrochemical Water Splitting / BAGAL Indrajit V.¹, RYU Sang Wan^{*1} (¹Dept. of Physics, Chonnam National University)

C19.04*

Enhanced Photoelectrochemical water splitting performance of Au- Nanoparticles decorated gallium nitride photoanode / RYU Sang Wan^{*1}, ABDULLAH Ameer¹ (¹Dept. of Physics, Chonnam National University)

D3.04*

Study of jet measurements with a dual-readout calorimeter for the EIC / RYU Jaehyeok^{*1}, KIM Yongjun¹, LIM Sanghoon¹, KO Sanghyun^{1,2}, KIM Doyeong³, LEE Hyupwoo^{2,3}, LEE Jason³, LEE Yunjae³, SON Youngwan³, SONG Donghyun³, WATSON Ian³, CHO Guk⁴, EO Yun⁴, HA Seungkyu⁴, HWANG

Kyuyeong⁴, KIM Dongwoon⁴, KIM Jaeyoung⁴, KIM Kyungho⁴, KIM Sungwon⁴, KIM Tongil⁴, PARK Junewoo⁴, WATANUKI Shun⁴, YOO Hwidong⁴, CHOEN Yechan⁵, KIM Yongsun⁵, HUH Changgi⁶, KIM Bobae⁶, LEE Junghyun⁶, LEE Sehwook⁶, RYU Min Sang⁶ (¹Dept. of Physics, Pusan National University, ²Dept. of Physics, Seoul National University, ³Dept. of Physics, University of Seoul, ⁴Dept. of Physics, Yonsei University, ⁵Dept. of Physics, Sejong University, ⁶Dept. of Physics, Kyungpook National University)

D9.03*

Quantum capacitance of vertical tunnel field-effect transistors: A first-principles study / LEE Ryong-Gyu¹, LEE Juho¹, KIM Tae Hyung¹, KIM Yong-Hoon^{*1} (¹School of Electrical Engineering, KAIST)

D9.05*

Berry curvature imprinted in pumped photoemission delay / PARK Hyosub¹, LEE JaeDong^{*1} (¹Department of Emerging Materials Science, DGIST)

D15.07*

Charge and energy confinement of strongly coupled plasma within a phase-coexisting supercritical fluid / LEE Juho¹, LEE Seungtaek¹, YUN GUNSU^{*1,2} (¹Dept. of Physics, POSTECH, ²Division of Advanced Nuclear Engineering, POSTECH)

D16.05*

고출력 1018nm Yb첨가 광섬유 MOPA 시스템 / KIM Ji Won^{*1}, PARK Hyemi¹, OH Ye Jin¹, PARK Eun-jee², PARK Jong seon^{1,3}, KIM Jin-pil¹, JEONG Hoon³ (¹Department of photonics and nanoelectronics, Hanyang University ERICA, ²Department of Applied Physics, Hanyang University ERICA, ³한국생산기술연구원 KITECH)

E2.01*

Islands in charged linear dilaton black holes / AHN Byoungjoon¹, BAK Sang-Eon¹, JEONG Hyun-Sik^{2,3}, KIM Keun Young^{*1}, SUN Ya-Wen^{2,3} (¹Physics, GIST, ²School of physics & CAS Center for Excellence in Topological Quantum Computation, University of Chinese Academy of Sciences, ³Kavli Institute for Theoretical Sciences, University of Chinese Academy of Sciences)

E4.08*

Simulation of Gravitational Wave Detection Using Intensity Interferometer for the Stellar Interferometer Experiment / HONG Gihan¹, RHO Chang Dong², LEE Chang-Hwan³, WON Eunil⁴, PARK IL Hung^{*1}, HWANG Jungseek¹, CHOI Ki-young¹, LEE Kwangho¹ (¹Physics, Sungkyunkwan University, ²physics, University of Seoul, ³physics, Pusan National University, ⁴Physics, Korea University)

E9.02*

Ab initio prediction of topological superconductivity in metallic Si allotropes / KANG Yoon-Gu¹,

LEE In-Ho², HAN Myung Joon^{*1}, CHANG Kee Joo^{*1} (¹Dept. of Physics, KAIST, ²Korea Research Institute of Standards and Science, KRISS)

E9.07*

First-principles study of the chemically reversible isomerization of cadmium sulfide nanoclusters / SHIM Doeun¹, LEE Juhyung¹, KANG Joongoo^{*1} (¹Department of Emerging Materials Science, DGIST)

E12.03*

Mixed-halide Zero-dimensional Perovskites Synthesized via Mechanochemistry for Visible Emission Over a Wide Color Spectrum / LIM Hyungbin¹, BAEK Kyeong-Yoon¹, KIM Jaeyoung¹, LEE Jonghoon¹, LEE Woocheol¹, AHN Heebeom¹, KIM Junwoo¹, KANG Keehoon^{*2}, LEE Takhee^{*1} (¹Dept. of Physics and Astronomy, Seoul National University, ²Department of Materials Science and Engineering, Yonsei University)

E13.06*

Giant Charge Reconstruction in Lipid Vesicles : Optical Bottle Study / LEE Jaehee¹, GIM Bopil¹, PARK Seongmin², PARK Chang Young³, JANG Hyunwoo¹, LEE Suho¹, JEONG Dae-Woong¹, OU-YANG H Daniel⁴, KIM Mahn Won², KIM Joon Heon⁵, KWON Suyong⁶, HYEON Changbong⁷, CHOI Myung Chul^{*1} (¹Department of Bio and Brain Engineering, KAIST, ²Dept. of Physics, KAIST, ³R&D Center, LG Hausys, ⁴Dept. of Physics, Lehigh University, ⁵Advanced Photonics Research Institute, GIST, ⁶Division of Policy and Strategy, KRISS, ⁷School of Computational Science, Korea InstiKorea Institute for Advanced Studytute for Advanced Study)

E16.02*

Study of second-order optical nonlinearity in twisted few-layer graphene / YEOM Dong-Il^{*2,3}, CHOI Jungseok³, HA Seongju³, CHAE Kwanbyung³, PARK Ji-Yong^{2,3} (¹Ajou University, ²Dept. of Physics, Ajou University, ³Department of Energy Systems Research, Ajou University)

E19.03*

Near-Field Photoluminescence Control of Intra- and Inter-Layer Excitons in WSe₂/Mo_{0.5}W_{0.5}Se₂ Heterobilayer / KOO Yeonjeong¹, LEE Hyeongwoo¹, LEE Dong Yun¹, KRAVTSOV Vasily², PARK Kyoung-Duck^{*1} (¹Physics, UNIST, ²Physics and Engineering, ITMO University, Russia)

F1.01*

Particle identification for Dual-Readout calorimeter / LEE YunJae¹, LEE Jason Sang Hun^{*1}, WATSON Ian James¹, LEE Hyupwoo¹, SONG Donghyun¹, KIM Doyoung¹, SON Youngwan¹, YOO Hwidong², HA Seungkyu², KIM Kyungho², CHO Guk², LEE Sehwook³, RYU Min Sang³, KO Sanghyun⁴, KIM Bobae³, HUH Changgi³, EO Yun², HWANG Kyueong², KIM Dongwoon², KIM Jaeyoung², KIM Sungwon², KIM Tongil², PARK Junewoo², CHOEN Yechan⁵, KIM Yongsun⁵, LIM Sanghoon⁶, RYU Jaehyeok⁶ (¹Dept. of

Physics, University of Seoul, ²Dept. of Physics, Yonsei University, ³Dept. of Physics, Kyungpook National University, ⁴Dept. of Physics, Seoul National University, ⁵Dept. of Physics, Sejong University, ⁶Dept. of Physics, Pusan National University)

F1.07*

Migration of the dual-readout calorimeter simulation to Key4HEP common software stack for future HEP collider experiments / YOO Hwidong^{*6}, KO Sanghyun³, HUH Changgi¹, KIM Bobae¹, LEE

Junghyun¹, LEE Sehwook¹, RYU Minsang¹, KIM Doyeong⁵, LEE Hyupwoo⁵, LEE Jason⁵, LEE Yunjae⁵, SON Youngwan⁵, SONG Donghyun⁵, WATSON Ian James⁵, CHO Guk⁶, EO Yun⁶, HA Seungkyu⁶, HWANG Kyuyeong⁶, KIM Dongwoon⁶, KIM Jaeyoung⁶, KIM Kyungho⁶, KIM Sungwon⁶, KIM Tongil⁶, PARK Junewoo⁶, WATANUKI Shun⁶, CHOEN Yechan⁴, KIM Yongsun⁴, KIM Yongjun², LIM Sanghoon², RYU Jaehyeok² (¹Dept. of Physics, Kyungpook National University, ²Dept. of Physics, Pusan National University, ³Dept. of Physics and Astronomy, Seoul National University, ⁴Dept. of Physics, Sejong University, ⁵Dept. of Physics, University of Seoul, ⁶Dept. of Physics, Yonsei University)

F2.09*

Neutrino Event Reconstruction in the KNO Detector / YU Seonghyeon^{*1}, YU Intae¹, KWON

Eunhyang¹, SEO Jiwoong¹, KIM Kihoon¹, KIM Hyunsoo², JANG Jeeseung³, LEE Youngmin⁴, SHIN Bokkyun⁵ (¹Dept. of Physics, Sungkyunkwan University, ²Dept. of Physics and Astronomy, Sejong University, ³Dept. of Physics and Photon Science, GIST, ⁴Dept. of Physics, KAIST, ⁵Dept. of Physics, UNIST)

F6.04*

A thin defective layer formation in yttria-stabilized zirconia and its ferromagnetism / RYU

Sangkyun¹, CHO Daegill¹, PARK Jun Kue², LEE Jae S.², HONG Tae Eun³, BYEON Mirang³, JEEN Hyoung Jeen^{*1,4} (¹Dept. of Physics, Pusan National University, ²Korea Multi-Purpose Accelerator Complex, KAERI, ³Busan Center, KBSI, ⁴Research Center for Dielectric and Advanced Matter Physics, Pusan National University)

F7.01*

Electrocatalytically-relevant depth in atomically precise $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ heterostructures / LEE

Jegon¹, ADIGA Prajwal², LEE Sang A³, NAM Seung Hyun¹, JU Hyeon-Ah⁴, JUNG Min-Hyong⁴, JEONG Hu Young⁵, KIM Young-Min⁴, WONG Cindy², ELZEIN Radwan², ADDOU Rafik², STOERZINGER Kelsey A.^{2,6}, CHOI Woo Seok^{*1} (¹Physics, Sungkyunkwan University, ²School of Chemical, Biological and Environmental Engineering, Oregon State University, ³Dept. of Physics, Pukyong National University, ⁴Department of Energy Science, Sungkyunkwan University, ⁵Central research Facilities and School of Materials Science and Engineering, UNIST, ⁶Physical Sciences Division, Pacific Northwest National Laboratory)

F7.04*

Exploring surface chemical states of Pt-based bimetallic alloys (M=Ti,V) during CO oxidation by ambient pressure XPS / JUNG Moonjung¹, KIM Dongwoo¹, LIM Hojoon¹, SEO Minsik¹, KANG Habin¹, KIM Seunghwan¹, KIM Geonhwa², PÉREZ RAMÍREZ Lucía³, BOURNEL Fabrice^{4,5}, GALLET Jean-Jacques^{4,5}, KIM Ki-Jeong², MUN Bongjin Simon^{*1,6} (¹Dept. of Physics and Photon Science, GIST, ²Beamline Research Division, Pohang Accelerator Laboratory, ³CNRS, Sorbonne Université, France, ⁴CNRS, Sorbonne Université, France, ⁵Beamline Research Division, Synchrotron SOLEIL, ⁶Center for Advanced X-ray Science, GIST)

F9.01*

Decoherence of nitrogen-vacancy spin ensembles in diamond in the nitrogen electron-nuclear spin bath / PARK Huijin¹, LEE Junghyun², OH Sangwon³, JEONG Ha-young², HAN Sangwook², SEO Hosung^{*1} (¹Physics, Ajou University, ²Center for Quantum Information, KIST, ³Quantum magnetic imaging, KRISS)

F9.06*

Anisotropic Orbital Hybridization induced Breathing Kagome Lattice and Higher Order Topology in Monolayer Hexagonal Transition Metal Dichalcogenides / JUNG Jun¹, KIM Yong-Hyun^{*1,2} (¹Dept. of Physics, KAIST, ²Graduate School of Nanoscience and Technology, KAIST)

F15.01*

IRE Prediction Using Visible Fast Camera Images in VEST / HWANG Yong Seok^{*1}, JUNG Eui Chan¹, JEONG Won Ik¹, NA Yong-Su¹ (¹Seoul National University)

F15.04*

Gyrokinetic simulation studies of ExB staircase in KSTAR L-mode plasmas / KANG Byungjun^{*1}, QI Lei³, SEO JangHoon², HAHM TaikSoo¹ (¹Energy system engineering department, Seoul National University, ²시뮬레이션연구팀, KFE, ³이론해석연구팀, KFE)

G1.08*

Performance of the PF hadron calibration algorithm for Run III at CMS experiments / HUH Changgi^{*1}, LEE Sehwook¹ (¹Dept. of Physics, Kyungpook National University)

G1.09*

Update of Herwig 7 for BSM radiations and search for the radiated BSM particle inside jets / LEE Joon-Bin¹, YANG Un-ki^{*1} (¹Dept. of Physics and Astronomy, Seoul National University)

G2.04*

Update on dark matter searches using annual modulation in NaI crystals at COSINE-100 / NEAL Robert John^{*1} (¹Centre for Underground Physics, IBS)

G3.08*

Charmonium spectrum from the instanton vacuum / HONG Ki-Hoon¹, KIM Hyun-Chul^{*1}, YAKHSHIEV Ulugbek¹ (¹Inha University)

G7.04*

Flat bands with band crossings enforced by symmetry representation / HWANG Yoonseok^{1,2}, RHIM Jun-Won^{1,2,3}, YANG Bohm Jung^{*1,2} (¹Center for Correlated Electron Systems (CCES), Institute of Basic Science (IBS), ²Dept. of Physics and Astronomy, Seoul National University, ³Dept. of Physics, Ajou University)

G7.08*

Non-divergent chiral charge pumping in Weyl Semimetal / PARK Min Ju¹, CHEON Suik¹, LEE Hyun-Woo^{*1} (¹Dept. of Physics, POSTECH)

G9.01*

Pushing the limit of crystal structure prediction with machine learning potential: a first extensive blind test / KANG Sungwoo¹, JEONG Wonseok¹, HWANG Seungwoo¹, HONG Changho¹, YOON Youngchae¹, LEE Jiho¹, HAN Seung Wu^{*1} (¹Seoul National University)

G9.07*

First-principles calculation of the non-equilibrium quasi-Fermi levels in WSe₂ p-n junctions / KIM Tae Hyung¹, LEE Juho¹, KIM Yong-Hoon^{*1} (¹School of Electrical Engineering, KAIST)

G10.02*

Effective Work-function Tuning in Metal/SiO₂/Si Junction Achieved with Graphene Interlayer at Metal/SiO₂ Interface / SONG Wonho¹, LEE Jung-Yong², KIM Junhyung¹, PARK Jinyoung¹, JO Jaehyeong¹, HYUN Eunseok¹, PARK Kibog^{*1,3} (¹Dept. of Physics, Ulsan National Institute of Science and Technology (UNIST), ²Quantum Information Research Support Center, Sungkyunkwan University, ³Department of Electrical Engineering, Ulsan National Institute of Science and Technology (UNIST))

G10.05*

Spin-Orbit Interaction and Magnetoresistance in Graphene-based Heterostructures / KIM Tae Hee^{*1,2}, DO THI Nga^{1,2}, JANG Youngrok⁴, CHANG Changyong³ (¹Dept. of Physics, Ewha Womans University, ²Quantum Nanosciences, IBS, ³Dept. of Physics, Incheon National University, ⁴Quantum Spin Team, KRISS)

G11.01*

Modulating ferromagnetic insulating state in LaCoO₃ epitaxial thin films using surface orientation control / SHIN Dongwon¹, SONG Sehwan², YOON Sangmoon³, LEE Ho Nyung³, PARK Sungkyun², CHOI Woo Seok^{*1} (¹Physics, Sungkyunkwan University, ²Physics, Pusan National

University, ³Materials Science and Technology Division, Oak Ridge National Laboratory, USA)

G12.01*

Tailoring the interfacial band offset by the molecular dipole orientation for a molecular heterojunction selector / EO Jung Sun¹, SHIN Jaeho¹, YANG Senghoon¹, JEON Takgyeong¹, LEE Jaecho¹, CHOI Sanghyun¹, LEE Chul-ho¹, WANG Gunuk^{*1} (¹KU-KIST Graduate School of Converging Science and Technology, Korea University)

G12.05*

Aging Lévy walk with rest model for Arc and β -actin mRNA transport in neurons / AHN Hye Rim¹, DURANG Xavier², SHIM Jae Youn¹, PARK Gaeun¹, JEON Jae-Hyung^{*2}, PARK Hyeyoon^{*1} (¹Dept. of Physics and Astronomy, Seoul National University, ²Dept. of Physics, POSTECH)

G17.02*

Coherent and incoherent oscillation of the spin spiral state near the quantum critical point / HUH Seung Jung¹, KIM Kyungtae¹, KWON Kiryang¹, HUR Junhyeok¹, CHOI Jae Yoon^{*1} (¹Dept. of Physics, KAIST)

G19.06*

Investigation of Cation Exchange Behaviors of FAMAPbI₃ Films using Dynamic Spin-Coating / JEONG Mun Seok^{*1}, YU Hyangmi² (¹Dept. of Physics, Hanyang University, ²Dept. of energy science, Sungkyunkwan University)

H1.03*

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

H2.03*

A Study on the Responses of Silicon Photodiode Detector to Gamma Radiation and Proton beams / KIM Bobae^{*1}, KIM Sunghwan², NAM Uk-Won³, YOUN Sukwon⁴, PARK Won-Kee³, SHON Jongdae³, KIM HongJoo¹, PARK Hwanbae¹, HWANG Junga³, YE Seongjun⁴, CHOI Young-Jun³ (¹Kyungpook National University, ²Dept. of Radiology, Cheongju University, ³Space Science Division, Korea Astronomy and Space Science Institute, ⁴Dept. of Applied Bioengineering, Seoul National University)

H8.01*

Artificial Phonon Engineering in Atomically-Designed Oxide Heterostructures / JEONG Seung Gyo¹, SEO Ambrose², CHOI Woo Seok^{*1} (¹Physics, Sungkyunkwan University, ²Physics and Astronomy, University of Kentucky, USA)

H8.05*

Non-volatile 180° polarization reversal dynamics of ferroelastic nanodomains in Pb(Zr,Ti)O₃ thin film / CHOI Je Oh¹, LEE Hyeon Jun^{2,3}, WANG Bo⁴, FUNAKUBO Hiroshi⁵, LEE Su Yong⁶, CHEN Long-Qing⁴, JO Ji Young^{*1} (¹School of Materials Science and Engineering, GIST, ²Center for Correlated Electron Systems, Institute for Basic Science, ³Dept. of Physics and Astronomy, Seoul National University, ⁴Department of Materials Science and Engineering, Pennsylvania State University, ⁵Department of Materials Science and Engineering, Tokyo Institute of Technology, ⁶Pohang Accelerator Laboratory, Pohang University of Science and Technology)

H17.04*

Rydberg quantum tree wires for vertex-spitting in high-degree graphs / HWANG Jaeyong¹, KIM Minhyuk¹, KIM Kangheun¹, MOON Eun-Gook¹, AHN Jaewook^{*1} (¹Dept. of Physics, KAIST)

I3.02*

Measurement of proton decay from energy levels in ²¹Na / KIM Min Ju¹, CHAE K. Y.^{*1}, AHN S², BARDAYAN D W³, CHA S.M.¹, CHIPPS K. A.^{2,4,5}, CIZEWSKI J. A.⁶, HOWARD M. E.⁶, KOZUB R. L.⁷, KWAK K.⁸, MANNING B.⁶, MATOS M.⁹, O'MALLEY P. D.^{3,6}, PAIN S. D.⁵, PETERS W. A.¹⁰, PITTMAN S. T.⁵, RATKIEWICZ A.⁶, SMITH M. S.⁵, STRAUSS S.^{3,6} (¹Dept. of Physics, Sungkyunkwan University, ²Physics and astronomy, University of Tennessee, Knoxville, ³physics, University of Notre Dame, ⁴Dept. of Physics, Colorado School of Mines, ⁵Physics Division, Oak Ridge National Laboratory, ⁶Physics and Astronomy, Rutgers University, ⁷Physics, Tennessee Technological University, ⁸Physics, UNIST, ⁹Physics, Louisiana state university, ¹⁰Physics, Oak Ridge Associated Universities)

I20.05*

Revealing the Formation of IDR (Intrinsically Disordered Region)-mediated PD1 Nanoclusters / EUN GeeSung¹, YOON Tae-Young^{*1} (¹Seoul National University)