

<2023 가을 학술논문발표회 우수발표상 수상명단>

(구두발표 부문)

* 총 82건

A2.03*

Search for rare interactions of Dark Matter with high-energy neutrinos from distant point sources with the IceCube Neutrino Telescope / KANG Woosik^{*1} (¹Department of Physics, Sungkyunkwan University)

A6.03*

Production of S=-2 systems near the threshold in the $^{12}\text{C}(K^-,K^+)X$ reaction at 1.8 GeV/c / JUNG WooSeung¹, AHN Jung Keun^{*1}, FOR THE E42 Collaboration^{1,2,3} (¹Department of Physics, Korea University, ²ASRC, JAEA, Japan, ³Department of Physics, Tohoku University, Japan)

A12.02*

Exploring Laser-Patterned Hybrid Perovskite Modules through Optical Spectroscopy / KIM Yejin¹, JEONG Yujin^{2,3}, KO Seoyeon¹, KIM Gee Young², YOON Seokhyun^{*1} (¹Department of Physics, Ewha Womans University, ²Advanced Photovoltaic Research Center, KIST, ³Department of Material Science and Engineering, Korea University)

A14.03*

전기방사를 이용한 니켈 세륨 셀레나이드 나노섬유 전극기반 준고체 슈퍼커패시터 제작 / EDUGULLA Girija Shankar², PARANJAPE Mandar Vasant², YU Jae Su^{*1,2} (¹Department of Electronic Engineering, Kyung Hee University, ²Department of of Electronics and Information Convergence Engineering, Kyung Hee University)

A15.03*

Ferroelectric domain wall dynamics in trilayer transition metal dichalcogenides / PARK Daesung¹, JEONG Siwon¹, YOO Hyobin^{*1} (¹Department of Physics, Sogang University)

B3.03*

Inclusive search for new physics with razor variables and boosted objects in hadronic and leptonic final states using CMS Run 2 data / HUH Changgi^{*1}, SEKMEN Sezen¹, LEE Sehwook¹, LEE Junghyun¹, BORAN Fatma², TOK Ufuk Guney², MARTON Krisztina³ (¹Department of Physics, Kyungpook National University, ²Department of Physics, Cukurova University, Turkey, ³Department of Physics, Wigner Institute of Physics, Hungary)

B3.08*

Search for Right-Handed W Bosons Decaying Into Heavy Neutral Leptons / YANG Un-ki¹, KIM Youngwan¹ (¹Department of Physics and Astronomy, Seoul National University)

B6.01*

Evaluation of Astrophysically Important Nuclear Structure in ¹⁹Ne / KIM Sohyun¹, CHAE Kyung Yuk¹, SMITH Michael S² (¹Department of Physics, Sungkyunkwan University, ²Physics Division, Oak Ridge National Laboratory, USA)

B6.04*

Study of the ¹⁴O(α ,p)¹⁷F Cross Section for Type I X-ray burst light curve / AHN Sunghoon(Tony)², PARK Chaeyeon^{1,2}, AVILA Melina L¹⁷, BAE Sunghan², BARBUI Marina⁴, BARDAYAN Daniel W⁷, BISHOP Jack⁴, CHA Soomi², CHAE Kyungyuk¹⁰, CHEN Alan⁸, CHILLERY Thomas William³, COGNATA Marco La¹³, DO Seungkyung⁹, GU Gyuongmo¹⁰, HAHN Kevin Insik², HAYAKAWA Seiya³, HONG Byungsik⁹, IMAI Nobuaki³, IWASA Naohito¹¹, KIM Dahee², KIM Yunghee², KIM Minju¹⁰, KIM Sohyun¹⁰, KIM Chanhee¹⁰, KIM Aram⁹, KITAMURA Noritaka³, KOSHCHIY Yevgen⁴, KUBONO Shigeru¹⁵, LEE Hyeji¹², MOON Byul², NAKAMURA Takashi¹², NGUYEN Duy Ngoc¹⁴, OKAWA Kodai³, PARKER Cody Cody⁴, PSALTIS Athanasios¹⁶, ROGACHEV Grigory V^{4,5}, ROOSA Michael^{4,5}, SASANO Masaki¹⁵, SFERRAZZA Michele⁶, YAMAGUCHI Hidetoshi³, ZHANG Qian³, LEE Jungwoo², PEREIRA LÓPEZ Xesus² (¹Department of Physics, Ewha Womans University, ²Center for Exotic Nuclear Studies, IBS, ³Center for Nuclear Study, University of Tokyo, Japan, ⁴Cyclotron Institute, Texas A&M University, USA, ⁵Department of Physics & Astronomy, Texas A&M University, USA, ⁶Département de Physique, Université Libre de Bruxelles, Belgium, ⁷Department of Physics & Astronomy, University of Notre Dame, USA, ⁸Department of Physics and Astronomy, McMaster University, Canada, ⁹Department of Physics, Korea University, ¹⁰Department of Physics, Sungkyunkwan University, ¹¹Department of Physics, Tohoku University, Japan, ¹²Department of Physics, Tokyo Institute of Technology, Japan, ¹³Istituto Nazionale di Fisica Nucleare, Italy, ¹⁴Institute of Postgraduate Program, Van Lang University, Vietnam, ¹⁵Nishina Center, RIKEN, Japan, ¹⁶Triangle Universities Nuclear Laboratory, Duke University, USA, ¹⁷Argonne National Laboratory, USA)

B10.06*

Large anomalous Hall effect and intrinsic Berry curvature in magnetic Weyl semimetal NdAlGe / CHO Keunki^{1,2}, CHO Beong Ki¹, SHON Wonhyuk³, YOON Seungha², HAN Song hee⁵, RHYEE Jongsoo⁴ (¹School of Materials Science and Engineering, GIST, ²Green Energy and Nano Technology R&D Group, KITECH, ³Advanced Quantum Materials Research Center, KAERI, ⁴Institute of Natural Sciences, Kyung Hee University, ⁵3Division of Navigation Science, Mokpo National Maritime University)

B11.03*

Dynamics of exceptional points in non-Hermitian toric code / YEOM Cheolhun¹, PARK Moon Jip²
(¹Department of Physics, Hanyang University, ²Department of Physics, Konkuk University)

B11.04*

Control of trigonal crystal field and critical temperature in cobalt-based Kitaev quantum spin liquid candidates $A_3Co_2SbO_6$ (A=Cu, Na) / SOHN Changhee^{*1}, PARK Miju¹, KIM Gyeheon¹
(¹Department of Physics, UNIST)

B15.04*

Laser Induced Phase Transition of Encapsulated γ -GeSe / KIM Kwanpyo^{*1,2}, KIM Joonho¹, LEE Kihyun^{1,2}, JUNG Joong-Eon¹, LEE Sol^{1,2}, LEE Han Joo¹, IM Seong Il¹ (¹Department of Physics, Yonsei University, ²Center for Nanomedicine, IBS)

B15.05*

Imaging disorders in moiré superlattice at a mesoscopic scale / HEO Yoon Seong^{1,2}, LEE Jae-Ung^{*1,2} (¹Department of Physics, Ajou University, ²Department of Energy Systems Research, Ajou University)

B15.07*

Investigation of vibrational and thermal properties of γ -GeSe / PARK Jinsub¹, JE Yugyeong², KIM Joonho¹, JUNG Joong-Eon¹, PARK Je Myoung³, CHEONG Hyeonsik³, LEE SangWook², KIM Kwanpyo^{*1}
(¹Department of Physics, Yonsei University, ²Department of Physics, Ewha Womans University, ³Department of Physics, Sogang University)

C2.01*

Dark matter search using NaI(Tl) at the COSINE-100 experiment / YU Gyunho^{*1} (¹Department of Physics, Sungkyunkwan University)

C3.02*

Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data / YOO Jae Hyeok^{*1}, PADMANABAN Jayashri¹ (¹Department of Physics, Korea University)

C5.03*

Investigating velocity distribution effects on temporal correlation of photon-pair generated in atomic vapor cell / KIM Heewoo¹, JEONG Hansol¹, MOON Han Seb^{*1} (¹Pusan National University)

C7.07*

Development of Low-pressure Gas TPC for Stellar Nucleosynthesis Reactions / LEE Haein¹, AHN

Jung Keun*¹ (¹Department of Physics, Korea University)

C9.05*

Bend-induced Phase Coexistence and Hysteresis of Heterogeneous Ring Polymers / LIM Chan¹, JEON Jae-Hyung*^{1,2} (¹Department of Physics, POSTECH, ²APCTP)

C10.04*

Higher-Order Topological Superconductivity for 1T'-MoTe₂ / KANG Myungjun^{1,6}, LEE Sangyun^{2,3}, KIM Duk Y,⁴ KIM Jihyun², CHO Suyeon⁵, CHEON Sang Mo*^{1,6}, PARK Tuson² (¹Department of Physics, Hanyang University, ²Center for Quantum Materials and Superconductivity, Sungkyunkwan University, ³Los Alamos National Laboratory, USA, ⁴Agency for Defense Development, ⁵Division of Chemical Engineering and Material Science, Ewha Womans University, ⁶Research Institute for Natural Science and High Pressure, Hanyang University)

C11.03*

Observation of hidden domain and polar structures in Bi₂WO₆ thin films and their electric properties / KWON Yong-Jun^{1,3}, YEO Youngki^{1,3}, KIM Min-Su², KIM Yong-Jin^{1,3}, PARK Heung-Sik^{1,3}, KIM Jaegyul^{1,3}, CHOI Si-Young^{2,4,5}, YANG Chan-Ho*^{1,3} (¹Department of Physics, KAIST, ²Center for Lattice Defectronics, KAIST, ³Materials Science and Engineering, POSTECH, ⁴Semiconductor Engineering, POSTECH, ⁵Center of Van der Waals Quantum Solids, IBS)

C11.05*

Understanding oxygen defect transport in Ca-doped bismuth ferrite thin films / SUH Jeonghun^{1,2}, PARK Heung-Sik^{1,2}, KIM Boram¹, LIM Ji Soo^{1,2}, CHO Sungjae¹, YANG Chan-Ho*^{1,2,3} (¹Department of Physics, KAIST, ²Center for Lattice Defectronics, KAIST, ³KAIST Institute for the NanoCentury, KAIST)

D2.01*

Status of differential Drell-Yan cross section measurement with the CMS detector / YOO Hwidong*¹, HWANG Kyuyeong¹, LEE Kyeongpil² (¹Department of Physics, Yonsei University, ²Department of Physics, Université Libre de Bruxelles, Belgium)

D3.05*

Capture of Inelastic Dark Matter in white dwarves / SCOPEL Stefano*¹, VELASCO-SEVILLA Liliana¹, KAR Arpan¹, BISWAS Anirban², KIM Hyomin¹ (¹Department of Physics, Sogang University, ²Department of Physics, Yonsei University)

D3.07*

Non-thermal WIMPy Baryogenesis with Primordial Black Hole / LKHAGVADORJ Erdenebulgan*¹,

CHOI Ki-Young^{*1}, KIM Jongkuk² (¹Department of Physics, Sungkyunkwan University, ²School of Physics, KIAS)

D5.02*

Manifestation of Laser Resonance Chromatography on Lu⁺ ions / KIM Eunkang^{*1,2,4}, BLOCK Michael^{1,2,3}, JANA Biswajit^{1,2}, RAEDER Sebastian^{2,3}, RAMANANTOANINA Harry¹, RICKERT Elisabeth^{1,2,3}, ROMERO Elisa Romero^{1,2,3}, LAATIAOUI Mustapha^{1,2} (¹Department of Chemistry, Johannes Gutenberg University of Mainz, Germany, ²SHE, Helmholtz-Institut Mainz, Germany, ³Schwerionenforschung, GSI Helmholtzzentrum, Germany, ⁴Department of Chemistry, UNIST)

D7.04*

Diquarks and the production of charmed baryons / LEE Su Houn^g^{*1}, YUN Hyeongock¹, NOH Sungsik¹, LIM Sanghoon², SONG Taesoo³, HONG Juhee¹, PARK Aaron¹, DÖNIGUS Benjamin⁴ (¹Yonsei University, ²Department of Physics, Pusan National University, ³Theory Division, GSI Helmholtzzentrum, Germany, ⁴Institut für Kernphysik, Johan Wolfgang Goethe-Universität, Germany)

D9.07*

A hidden route of protein aging / KIM Seoyoon¹, KIM Eojin¹, PARK Mingyu¹, KIM Seong ho¹, SADONGO Victor Wedia¹, WIJESINGHE Wijesinghelage Chandima Bhashini¹, LEE Chaiheon¹, CHOI Jeong-Mo², KIM Byung gyu³, KWON Tae Hyuk^{1,4}, MIN Seung kyu¹, MIN Duyoung^{*1,4} (¹School of Natural Science, UNIST, ²Department of Chemistry and Chemistry Institute for Fundamental Materials, Pusan National University, ³Center for Genomic Integrity, IBS, ⁴Center for Wave Energy Material, UNIST)

D11.04*

Clean realization of Hund physics near the Mott transition: NiS₂ under pressure / PARK Ina¹, JANG Bo Gyu², KIM Dongwook¹, SHIM Ji Hoon^{*1}, KOTLIAR Gabriel^{3,4} (¹Department of Chemistry, POSTECH, ²Theoretical Division, Los Alamos National Laboratory, USA, ³Condensed Matter Physics and Materials Science Department, Brookhaven National Laboratory, USA, ⁴Physics and Astronomy Department, Rutgers University, USA)

D13.04*

Gate dependent magnetoresistance and Hall resistance of polar semimetal WTe₂ / HWANG Eunji¹, YANG Heejun^{*1} (¹Department of Physics, KAIST)

D16.03*

Carbon Substitutional Defects in Monolayer hBN and their Effects on Graphene/hBN Heterostructure / PARK Sunho¹, KWON Young-Kyun^{*1} (¹Department of Physics, Kyung Hee University)

E2.04*

Exploring lepton flavor violation phenomena of the Z and Higgs bosons at electron-proton colliders / LEE Soojin^{*1}, SONG Jeonghyeon¹, KIM Jinheung¹, JUEID Adil², WANG Daohan¹
(¹Department of Physics, Konkuk University, ²Center for Theoretical Physics of the Universe, IBS)

E4.04*

Searches for dark matter signals with high-energy neutrinos in the IceCube Neutrino Telescope / KANG Woosik^{*1}, ROTT Carsten^{1,2}, JEONG Minjin¹, TOENNIS Christoph¹ (¹Department of Physics, Sungkyunkwan University, ²Department of Physics and Astronomy, University of Utah, USA)

E6.01*

A theoretical and numerical approach into high-efficiency plasma oscillator for next-generation THz-driven electron linear acceleration / LEE Jaeho¹, 박도현¹, KUMAR Manoj¹, HUR Min Sup^{*1}
(¹Department of Physics, UNIST)

E8.02*

Quantum Computation of Maximum Independent Set Problem on King's Graph of over Hundred Rydberg Atoms / KIM Kangheun¹, KIM Minhyuk², PARK JuYoung¹, AHN Jaewook^{*1}
(¹Department of Physics, KAIST, ²Department of Physics, Korea University)

E11.02*

First-principles study on electronic structure changes in MA₃Sb₂I₉ during annealing, cooling, and reannealing / KWON Young-Kyun^{*1}, YOO Seungwoo¹ (¹Department of Physics, Kyung Hee University)

E12.04*

Unraveling in-depth recombination mechanisms in flexible kesterite thin film solar cells / PARK Ha Kyung¹, SON Dae-Ho², SUNG Shi-Joon², HWANG Dae-Kyu², LEE Jaebaek², JEON Dong-Hwan², CHO Yunae¹, KIM Dae-Hwan², KANG Jin-Kyu², YANG Kee-Jeong², JO William^{*1} (¹Department of Physics, Ewha Womans University, ²Division of Energy Technology, DGIST)

E13.02*

Realizing High-Concentration Coalesced Vanadium Doping in Monolayer MoS₂: Toward High-Performance Hydrogen Evolution Catalysis / SON Eunbin², SEO Jihyung², PARK Hyesung^{*1} (¹KU-KIST Graduate School of Converging Science and Technology, Korea University, ²Materials Science and Engineering, UNIST)

E13.04*

Visualization of local mechanical properties in Moiré graphene / YANG Heejun^{*1}, SANGSU Yer¹, KIM Dohyun¹ (¹Department of Physics, KAIST)

E14.02*

The optical properties study of varied thickness for InGaAs/AlInAs superlattice structures / HA Jae Du¹, KANG Taein¹, JO Hyun-Jun¹, PARK Gyoung Du¹, KIM Jong Su^{*1}, LEE Seunghyun², KRISHNA Sanjay² (¹Yeungnam University, ²Department of Electrical and Computer Engineering, Ohio State University, USA)

F3.01*

Supersymmetric Cardy Formula and the Weak Gravity Conjecture in AdS/CFT / CHO Minseok^{*1}, CHOI Sunjin^{*2}, LEE Ki-Hong^{*1}, SONG Jaewon^{*1} (¹Department of Physics, KAIST, ²School of Physics, KIAS)

F5.04*

Electrically tunable single plexcitonic emitter at room temperature / LEE Hyeongwoo¹, WHETTEN Benjamin G.², KIM Byong Jae³, WOO Ju Young⁴, KOO Yeonjeong¹, BAE Jinhyuk¹, KANG Mingu¹, MOON Taeyoung¹, JOO Huitae¹, JEONG Sohee³, LIM Jaehoon³, EFROS Alexander L.⁵, RASCHKE Markus B.², PELTON Matthew⁶, PARK Kyoung-Duck^{*1} (¹Department of Physics, POSTECH, ²Department of Physics and JILA, University of Colorado at Boulder, USA, ³Department of Energy Science, Sungkyunkwan University, ⁴Digital Transformation R&D Department, KITECH, ⁵Naval Research Laboratory, USA, ⁶Department of Physics, University of Maryland, Baltimore County (UMBC), USA)

F10.05*

Revealing inverted chirality of hidden domain wall states in multiband systems without topological transition / CHEON Sang Mo^{*1,3}, KIM Tae-Hwan², HAN Sang-Hoon^{1,3}, JEONG Seung-Gyo² (¹Department of Physics, Hanyang University, ²Department of Physics, POSTECH, ³Research Institute for Natural Science and High Pressure, Hanyang University)

G5.05*

고출력 방사형/방위형 레이저 빔 생성 / OH Ye Jin^{1,2}, PARK Eun Kyoung^{1,2}, PARK In Chul^{1,2}, KIM Ji Won^{*1,2}, MUZIK Jiri³, KOSHIBA Yuya³, SIKOCINSKI Pawel³, MOCEK Tomas³ (¹Hanyang University ERICA, ²BK21 Four ERICA-ACE center, Hanyang University, ³Thin Disk Lasers, HiLASE Centre, Institute of Physics of the Czech Academy of Sciences, Czech)

G8.04*

Rydberg atom collisions by optical tweezer accelerator / AHN Jaewook^{*1}, HWANG Han Sub¹, HWANG Sunhwa¹ (¹Department of Physics, KAIST)

G9.05*

Percolation transitions in spatial multiplex networks with long-range links / SON Gangmin¹, HA Meesoon^{*2}, JEONG Hawoong^{*1,3} (¹Department of Physics, KAIST, ²Department of Physics Education, Chosun University, ³Center of Complex Systems, KAIST)

G9.06*

Detecting breakdown nodes in power grids via Graph Neural Networks / PARK Sangjoon¹, KIM Cook Hyun¹, KAHNG Byungnam^{*1} (¹Department of Energy Engineering, KENTECH)

G16.04*

Direct Observation of Acoustic Shape Deformation of Gold Nanorods via Localized Surface Plasmon Control / SONG Changyong^{*1,2,3}, PARK Eunyoung^{1,2,3}, HWANG Junha^{1,2,3}, YOUNG Shin Jae⁴, LEE Sung Yun^{1,2,3}, LEE Heemin^{1,2,3}, HEO Seungpil^{1,2,3}, NAM Daewoong⁴, KIM Sangsoo⁴, KIM Min Seok⁴, EOM In Tae⁴, NOH Do Young⁴ (¹POSTECH, ²Center for Ultrafast Science on Quantum Matter, Max Planck POSTECH Korea Research Initiative, ³Photon Science Center, POSTECH, ⁴Pohang Accelerator Laboratory, POSTECH)

H1.04*

물리학 기초학력 보장을 위한 진단도구 개발 및 타당화 / YOON HyunJu^{*1}, KANG Nam-Hwa¹ (¹Department of Physics Education, Korea National University of Education)

H2.03*

Module assembly and the plan for full-size module of the dual-readout calorimeter for the future e⁺e⁻ colliders / YOO Hwidong^{*1}, DO Hyunsuk², HUH Changgi², KIM Bobae², LEE Junghyun², LEE Sehwook², RYU Min Sang², KO Sanghyun³, KWON Hyejin³, KIM Doyeong⁴, LEE Hyupwoo⁴, LEE Jason⁴, LEE Yunjae⁴, SON Youngwan⁴, CHO Guk¹, EO Yun¹, HA Seungkyu¹, HWANG Kyuyeong¹, JANG Haeun¹, JANG Seoyun¹, KIM Dongwoon¹, KIM Sungwon¹, KIM Tongil¹, PARK Hyesung¹, KIM Dongwook⁵, KWON Nahye⁵, LEE Woochan⁵, KIM Yongjun⁶, LIM Sanghoon⁶, RYU Jaehyeok⁶, BAE Joonsuk⁷, KIM Beomkyu⁷, LEE Hyungjun⁷, JANG Yoonjun⁸, JEONG Jinryong⁸, KIM Minsuk⁸, CHOI Suyong⁹, CHEON Byunggu¹⁰ (¹Department of Physics, Yonsei University, ²Department of Physics, Kyungpook National University, ³Department of Physics, Seoul National University, ⁴Department of Physics, University of Seoul, ⁵Medical Physics and Biomedical Engineering Lab, Yonsei University Severance, ⁶Department of Physics, Pusan National University, ⁷Department of Physics, Sungkyunkwan University, ⁸Department of Physics, Gangneung Wonju National University, ⁹Department of Physics, Korea University, ¹⁰Department of Physics, Hanyang University)

H2.07*

The DAQ system of the dual-readout calorimeter for future e⁺e⁻ colliders in 2023 test beam at

CERN / YOO Hwidong^{*1}, JANG Haeun¹, CHO Guk¹, EO Yun¹, HA Seungkyu¹, HWANG Kyuyeong¹, JANG Seoyun¹, KIM Dongwoon¹, KIM Sungwon¹, KIM Tongil¹, PARK Hyesung¹, DO Hyunsuk², HUH Changgi², KIM Bobae², LEE Junghyun², LEE Sehwook², RYU Minsang³, KO Sanghyun⁴, KWON Hyejin⁴, KIM Doyeong⁵, LEE Hyupwoo⁵, LEE Jason⁵, LEE Yunjae⁵, SON Youngwan⁵, KIM Dongwook⁶, KWON Nahye⁶, LEE Woochan⁶, KIM Yongjun⁷, LIM Sanghoon⁷, RYU Jaehyeok⁷, BAE Joonsuk⁸, KIM Beomkyu⁸, LEE Hyungjun⁸, JANG Yoonjun⁹, JEONG Jinryong⁹, KIM Minsuk⁹, CHOI Suyong¹⁰, CHEON Byunggu¹¹ (1^{Department of Physics, Yonsei University,} 2^{Department of Physics, Kyungpook National University,} 3^{CHEP, Center for High Energy Physics, Kyungpook National University,} 4^{Department of Physics, Seoul National University,} 5^{Department of Physics, University of Seoul,} 6^{Cancer Center, Yonsei Severance Hospital,} 7^{Department of Physics, Pusan National University,} 8^{Department of Physics, Sungkyunkwan University,} 9^{Department of Physics, Gangneung-Wonju National University,} 10^{Department of Physics, Korea University,} 11^{Department of Physics, Hanyang University})

H3.02*

High-Temperature Superconducting Cavities for CAPP's Main Axion eXperiment (MAX) / LEE Jiwon^{1,2}, AHN Danho², KWON Ohjoon^{*2}, BYUN HeeSu², PARK Seongtae², KIM Jinsu², CHUNG Woohyun², SEMERTZIDIS Yannis K.^{1,2} (1^{Department of Physics, KAIST,} 2^{CAPP, IBS})

H3.06*

High-frequency cavity designs for the CAPP-12TB experiment / YOUN SungWoo^{*1}, JEONG Junu¹, KIM Younggeun¹, BAE SungJae^{1,2} (1^{Center for Axion and Precision Physics Research, IBS,} 2^{Department of Physics, KAIST})

H6.01*

Microwave-driven miniature plasma plume for space propulsion / KIM Kyungtae¹, CHAI Kil-Byoung³, YUN Gunsu^{*1,2} (1^{Division of Advanced Nuclear Engineering, POSTECH,} 2^{Department of Physics, POSTECH,} 3^{Nuclear Physics Application Research Division, KAERI})

H7.04*

Searching for medium-induced jet quenching effects in small collision systems with ALICE / LIM SangHoon^{*1}, RYU Jaehyeok¹ (1^{Department of Physics, Pusan National University})

H7.06*

Handling of the underlying event in jet mass and di-jet mass measurements in heavy-ion collisions / KANG Jeongmyung¹, OH Saehanseul^{*1,2} (1^{Department of Physics and Astronomy, Sejong University,} 2^{Nuclear Science Division, Lawrence Berkeley National Laboratory, USA})

H9.04*

Anomalous relaxation of a Brownian particle in active bath / BAHNG Sehoon¹, GHIM Cheol-Min^{*1}

(¹Department of Physics, UNIST)

H13.04*

Chiral transport of valley-polarized exciton-polaritons in h-BN/WS₂/h-BN waveguide cavities / JUNG Jin-Woo¹, KIM Jiyeon¹, LEE Young-Jun¹, KANG Jan-Won², CHO Chang-Hee^{*1} (¹Department of Physics and Chemistry, DGIST, ²Department of Physics, Mokpo National University)

H13.05*

Approach for reproducible and high-quality perovskites in workable temperature region / KIM Sung Hun¹, HEO Dong Gwon¹, LEE Hong Seok^{*1} (¹Department of Physics, Jeonbuk National University)

H14.01*

Gate-tunable synaptic devices based on conductive bridges in two-dimensional CrPS₄ / HONG Heemyoung¹, YANG Heejun^{*1} (¹Department of Physics, KAIST)

H14.02*

Ultrathin Skin-attachable TiO₂ Synaptic Array Integrated with an Organic Proximity Sensor for Real-time Finger Gesture Recognition / CHO Haein¹, LEE Inho², JANG Jingon¹, KIM Jae-hyun², LEE Hanbee³, PARK Sungjun^{2,3}, WANG Gunuk^{*1,4,5} (¹KU-KIST Graduate School of Converging Science and Technology, Korea University, ²Department of Intelligence Semiconductor Engineering, Ajou University, ³Department of Electrical and Computer Engineering, Ajou University, ⁴Department of Integrative Energy Engineering, Korea University, ⁵Center for Neuromorphic Engineering, KIST)

H15.05*

Towards highly emissive, thermally stable and low threshold amplified spontaneous emission from halide perovskite thin films / LEE Gayoung¹, ROH Kwangdong^{*1} (¹Department of Physics, Ewha Womans University)

I2.02*

SND@SHiP as tau neutrino short-baseline experiment / CHOI Ki-Young^{*1}, KIM Sung Hyun², KIM Yeong Gyun⁴, LEE Kang Young², LEE Kyong Sei³, PARK Byung Do², SOHN Jong Yoon², YOO Seong Moon^{*1}, YOON Chun Sil² (¹Department of Physics, Sungkyunkwan University, ²Department of Physics Education and RINS, Gyeongsang National University, ³CENuM, Korea University, ⁴Department of Science Education, Gwangju National University of Education)

I3.05*

Experimental Design for Korea Experiment on Magnetic Monopole (KAEM) in Low-mass, Low-magnetic Charge Region: GEANT4 Simulation Results of a Magnetic Bottle to Offset Reduced

Generation Efficiency from a Thin Target / LEE Junghyun^{*1}, BYEON HeeJeong¹, DO HyeonSeok¹, HUH Changgi¹, KIM Bobae¹, LEE Sehwook¹, HAUPTMAN John M², RYU MinSang³ (¹Department of Physics, Kyungpook National University, ²The Center for High Energy Physics, Kyungpook National University, ³Department of Physics and Astronomy, Iowa State University, USA)

15.07*

Terahertz Wave Applications via Electrically Tunable Graphene Metasurface / JEONG Sodam¹, PARK Hyunwoo¹, PARK Hyeonggi¹, BAEK Soojeong², KIM Teun-Teun^{*1} (¹Department of Physics, University of Ulsan, ²Mechanical Engineering, KAIST)

17.02*

Status of isospin dependency of collective flow in $^{129,124}\text{Xe} + ^{124,112}\text{Sn}$ collisions at 100AMeV / NAM Seon Ho¹, HONG Byungsik^{*1} (¹Department of Physics, Korea University)

17.04*

Performance test of CsI(Tl) crystals for the Subthreshold Pion Production Experiment at RAON (SUPER) / KIM YoungJun¹, AHN Jung Keun^{*1} (¹Department of Physics, Korea University)

112.03*

Magnon-mediated thermal phonon control in magnetic insulators / KIM Kab-Jin^{*1}, LEE Geun-Hee¹, VAN Phuoc Cao², JEONG Jong Ryul² (¹Department of Physics, KAIST, ²Department of Material Science and Engineering, Chungnam National University)

115.02*

Photoinduced surface degradation mechanism of two-dimensional Ruddlesden-Popper perovskite and its passivation by charge extraction / KIM Kitae^{1,2,3}, PARK Chanhui³, CHA Eunseo³, KANG Donghee^{1,2}, PARK Jeehong^{1,2}, BLUMSTENGEL Sylke⁴, MORALES Nicolas Zorn⁴, LIST-KRATOCHVIL Emil J.W.⁴, CHO Sang Wan¹, LEE Hyunbok^{*5}, PARK Soohyung^{*3}, YI Yeonjin^{*1,2} (¹Department of Physics, Yonsei University, ²Van der Waals Materials Research Center, Yonsei University, ³Advanced Analysis and Data Center, KIST, ⁴Humboldt-Universität zu Berlin, Institute für Physik, Institute für Chemie & IRIS Adlershof, Germany, ⁵Department of Physics, Kangwon National University)

J2.02*

Simulation study for measuring position and energy of few hundreds MeV carbon beam used in therapy / YOO Hwidong^{*1}, EO Yun¹, CHO Guk¹, HA Seungkyu¹, HWANG Kyuyeong¹, JANG Haeun¹, JANG Seoyun¹, KIM Dongwoon¹, KIM Sungwon¹, KIM Tongil¹, PARK Hyesung¹, DO Hyunsuk², HUH Changgi², KIM Bobae², LEE Junghyun², LEE Sehwook², RYU Min Sang³, KO Sanghyun⁴, KWON Hyejin⁴, KIM Doyeong⁵, LEE Hyupwoo⁵, LEE Jason⁵, LEE Yunjae⁵, SON Youngwan⁵, KIM Dongwook⁶, KWON

Nahye⁶, LEE Woochan⁶, KIM Yongjun⁷, LIM Sanghoon⁷, RYU Jaehyeok⁷, BAE Joonsuk⁸, KIM Beomkyu⁸, LEE Hyungjun⁸, PARK Hyebin⁸, JANG Yoonjun⁹, JEONG JinYong⁹, KIM Minsuk⁹, CHOI Suyong¹⁰, CHEON Byunggu¹¹ (¹Department of Physics, Yonsei University, ²Department of Physics, Kyungpook National University, ³Center for High Energy Physics, Kyungpook National University, ⁴Department of Physics, Seoul National University, ⁵Department of Physics, University of Seoul, ⁶Severance, Yonsei University, ⁷Department of Physics, Pusan National University, ⁸Department of Physics, Sungkyunkwan University, ⁹Department of Physics, Gangneung Wonju National University, ¹⁰Department of Physics, Korea University, ¹¹Department of Physics, Hanyang University)

J3.02*

CP violation and mass hierarchy in the neutrino sector from T2HK and KNO / PARK Jong-Chul^{*1}, KIM Taeyeong¹ (¹Department of Physics, Chungnam National University)

J4.03*

Atomic structure characterization of potential coating material of A+LIGO using ePDF and FEM / KIM Minhyo¹, LEE Kyung-ha^{*1} (¹Department of Physics, Sungkyunkwan University)

J7.05*

Early investigation of the MVTX commissioning / KIM Jaehyun¹, KWON Youngil^{*1} (¹Department of Physics, Yonsei University)

J9.03*

Divergence of Differential Capacitance at Electrodes: A Statistical Field Theory Approach with Coulomb and Yukawa Potential / LEE YeongKyu¹, JHO Yong Seok^{*1} (¹Department of Physics, Gyeongsang National University)

J11.05*

Ultrafast dynamics of charge ordered states in Ir(Te,Se)₂ / GAO Hongchen¹, SINGH Palwinder¹, RULI Fardiman¹, OH Yoon Seok², WON Choongjae³, CHEONG Sang-Wook⁴, KIM Kyungwan^{*1} (¹Chungbuk National University, ²Department of Physics, UNIST, ³Department of Physics, POSTECH, ⁴Department of Physics, Rutgers University, USA)

J12.01*

First-principles theory of quantum spin decoherence in transition metal dichalcogenides / PARK Taejoon^{1,2}, PARK Huijin^{1,2}, LEE Jaewook^{1,2}, SEO Hosung^{*1,2} (¹Department of Physics, Ajou University, ²Department of Energy Systems Research, Ajou University)

J12.07*

Qubit manipulation of trapped Yb⁺ ions / CHOI Taeyoung^{*1}, KIM Hyerin¹, YOO Jieun¹, KIM

Hyunsoo¹, LEE HYE IN¹ (¹Department of Physics, Ewha Womans University)

J15.04*

High-temperature Chemiresistive and Gaschromic Hydrogen Gas Sensor Using Vanadium Oxide Film / SON Yeongjun¹, LEE Dooyong², LEE Jisung^{1,3}, SONG Sehwan⁴, LIM Si-Heon⁵, HAN Seongheon¹, KIM Hyun-Ho⁵, PARK Sungkyun^{*1} (¹Pusan National University, ²Department of Physics Education, Kyungpook National University, ³Center for Scientific Instrumentation, Korea Basic Science Institute, ⁴Quantum Spin Team, Quantum Technology Institute, KRISS, ⁵Department of Energy Engineering Convergence & School of Materials Science and Engineering, Kumoh National Institute of Technology)

J16.02*

Phonon Decoupling in Brownmillerite SrFeO_{2.5} and CaFeO_{2.5} / JIN Yeongrok¹, LEE Jaekwang^{*1} (¹Department of Physics, Pusan National University)

J16.04*

Role of Symmetries on Surface Band Gap in MnBi₂Te₄ with Antisite Defects: A First-Principles Study / JEONG Dameul¹, YOON Mina², KWON Young-Kyun^{*1} (¹Department of Physics, Kyung Hee University, ²Materials Science and Technology Division, Oak Ridge National Laboratory, USA)

J16.08*

First-Principles Investigation of Phonon Transport Properties of Monolayer Fluorographene / HAN Seungbin¹, LEE DongKyu¹, LEE Sungwoo^{1,2}, LEE Gun-Do^{1,2}, JANG Hyejin^{*1,2} (¹Materials Science and Engineering, Seoul National University, ²Research Institute of Advanced Materials, Seoul National University)