

<2022 봄 학술논문발표회 우수발표상 수상명단(구두발표부문)>

\* 총 57건

**A1.04\***

**Status of CMS LGAD Sensor Testing in Korea** / YOO Jae Hyeok<sup>\*1</sup>, HONG Byeong Jin<sup>1</sup> (<sup>1</sup>Physics, Korea University)

**A2.06\***

**Holographic teleportation with conservation laws: diffusion on traversable wormholes** / AHN Byoungjoon<sup>1</sup>, BAK Sang-Eon<sup>1</sup>, JAHNKE Viktor<sup>1</sup>, KIM Keun Young<sup>\*1</sup> (<sup>1</sup>Physics, GIST)

**A3.05\***

**Simulation of an Active Target Time Projection Chamber for low-energy rare isotope beam experiment** / LEE Seunghwan<sup>1</sup>, KIM Yongsun<sup>\*1</sup> (<sup>1</sup>Sejong University)

**A5.05\***

**Development of Sagnac interferometer for magneto-optical measurement and its applications to superconductivity and magnetism** / HEO Hyeokjun<sup>1,2</sup>, CHOI Won Beom<sup>1,2</sup>, HA Sangwook<sup>1,2</sup>, KIM Taeho<sup>1</sup>, JEONG Yungi<sup>1,2</sup>, PARK Hangyeol<sup>1,2</sup>, JANG Joonho<sup>\*1,2</sup> (<sup>1</sup>Department of Physics, Seoul National University, <sup>2</sup>Center for Correlated Electron Systems, CCES, IBS)

**A8.04\***

**Accelerating density functional theory calculations by predicting charge density using convolutional neural networks** / LEE Ryong-Gyu<sup>1</sup>, KIM Yong-Hoon<sup>\*1</sup> (<sup>1</sup>School of Electrical Engineering, KAIST)

**A16.04\***

**Terahertz generation using a two-color laser pulse in a gaseous medium** / SHRESTHA Rajaram<sup>1,2</sup>, SHIN Jeong-uk<sup>1,2</sup>, CHO Wosik<sup>2</sup>, KIM Yang Hwan<sup>2</sup>, KIM Kyungseung<sup>2</sup>, KIM Ki-yong<sup>1,2</sup>, KIM Kyung Taec<sup>\*1,2</sup> (<sup>1</sup>Department of Physics and Photon Science, GIST, <sup>2</sup>Center for Relativistic Laser Science, IBS)

**A18.03\***

**Vacancy doping effects on MoS<sub>2</sub> nanoflakes in various shapes and vacancy concentrations** / YOU Suejeong<sup>\*1</sup>, KIM HEESANG<sup>1</sup>, KIM Nammee<sup>1</sup> (<sup>1</sup>Physics, Soongsil University)

**A18.08\***

**Complete trion conversion and waveguiding in atomically thin semiconductors** / LEE Hyeongwoo<sup>1</sup>, KUMAR Shailabh<sup>2</sup>, KOO Yeonjeong<sup>1</sup>, JEONG Yunjo<sup>4</sup>, CHOI Soo Ho<sup>5</sup>, KANG Mingu<sup>1</sup>, KIM Ki Kang<sup>5,3</sup>, AN Sangmin<sup>4</sup>, CHOO Hyuck<sup>2,6</sup>, PARK Kyoung-Duck<sup>1</sup> (<sup>1</sup>Department of physics, POSTECH, <sup>2</sup>Department of Medical Engineering, Caltech, <sup>3</sup>Department of Physics, Jeonbuk National University, <sup>4</sup>Center for Integrated Nanostructure Physics, IBS, <sup>5</sup>Department of Energy Science, Sungkyunkwan University, <sup>6</sup>Device & System Research Center, SAIT)

#### **A20.05\***

**Alternation of replication protein A binding mode on single-stranded DNA by NSMF potentiates RPA phosphorylation by ATR kinase** / KANG Yujin<sup>1</sup>, HAN Ye Gi<sup>1</sup>, KHIM Keon Woo<sup>1</sup>, CHOI Jang Hyun<sup>1,2</sup>, KIM Hongtae<sup>1,2</sup>, LEE Ja Yil<sup>1,2</sup> (<sup>1</sup>Department of Biological Sciences, UNIST, <sup>2</sup>Institute of Basic Science Center for Genomic Integrity (IBS-CGI), UNIST)

#### **B1.03\***

**Hadronic Tau Identification for the Dual-Readout Calorimeter using Vision Transformer with Hyperparameter optimization** / LEE Jason Sang Hun<sup>\*1</sup>, SON Youngwan<sup>1</sup>, LEE Hyupwoo<sup>1</sup>, WATSON Ian James<sup>1</sup>, LEE Yunjae<sup>1</sup>, KIM Doyoung<sup>1</sup>, SONG Donghyun<sup>1</sup>, LEE Sehwook<sup>2</sup>, RYU Min Sang<sup>2</sup>, KIM Bobae<sup>2</sup>, LEE Junghyun<sup>2</sup>, HUH Changgi<sup>2</sup>, KO Sanghyun<sup>3</sup>, YOO Hwidong<sup>4</sup>, HA Seungkyu<sup>4</sup>, KIM Kyungho<sup>4</sup>, WATANUKI Shun<sup>4</sup>, CHO Guk<sup>4</sup>, KIM Dongwoon<sup>4</sup>, HWANG Kyuyeong<sup>4</sup>, EO Yun<sup>4</sup>, KIM Sungwon<sup>4</sup>, KIM Tongil<sup>4</sup>, KIM Jaeyoung<sup>4</sup>, KIM Youngsun<sup>5</sup>, CHEON Yechan<sup>5</sup>, LIM Sanghoon<sup>6</sup>, KIM Yongjoon<sup>6</sup>, RYU Jaehyeok<sup>6</sup> (<sup>1</sup>Department of Physics, University of Seoul, <sup>2</sup>Department of Physics, Kyungpook National University, <sup>3</sup>Department of Physics & Astronomy, Seoul National University, <sup>4</sup>Department of Physics, Yonsei University, <sup>5</sup>Department of Physics and Astronomy, Sejong University, <sup>6</sup>Department of Physics, Pusan National University)

#### **B1.04\***

**Reconstruction of 3D shower shape with the dual-readout calorimeter** / YOO Hwidong<sup>\*1</sup>, KO Sanghyun<sup>2</sup>, HUH Changgi<sup>3</sup>, JO Hyon-Suk<sup>3</sup>, KIM Bobae<sup>3</sup>, LEE Changhui<sup>3</sup>, LEE Junghyun<sup>3</sup>, LEE Sehwook<sup>3</sup>, RYU Minsang<sup>3</sup>, KIM Doyeong<sup>4</sup>, LEE Hyupwoo<sup>4</sup>, LEE Jason Sang Hun<sup>4</sup>, LEE Yunjae<sup>4</sup>, SON Youngwan<sup>4</sup>, WATSON Ian<sup>4</sup>, CHO Guk<sup>1</sup>, EO Yun<sup>1</sup>, HA Seungkyu<sup>1</sup>, HWANG Kyuyeong<sup>1</sup>, JANG Seoyun<sup>1</sup>, KIM Dongwoon<sup>1</sup>, KIM Tongil<sup>1</sup>, WATANUKI Shun<sup>1</sup>, CHEON Yechan<sup>5</sup>, KIM Yongsun<sup>5</sup>, KIM Yongjun<sup>6</sup>, LIM Sanghoon<sup>6</sup>, RYU Jaehyeok<sup>6</sup>, KIM Beomkyu<sup>7</sup> (<sup>1</sup>Department of Physics, Yonsei University, <sup>2</sup>Department of Physics & Astronomy, Seoul National University, <sup>3</sup>Department of Physics, Kyungpook National University, <sup>4</sup>Department of Physics, University of Seoul, <sup>5</sup>Department of Physics, Sejong University, <sup>6</sup>Department of Physics, Pusan National University, <sup>7</sup>Department of Physics, Sungkyunkwan University)

**B1.07\*****Update of calibration and EM/jet energy resolution study with 4pi dual-readout calorimeter /**

YOO Hwidong<sup>\*1</sup>, HWANG Kyuyeong<sup>1</sup>, GUK Cho<sup>1</sup>, YUN Eo<sup>1</sup>, HA Seungkyu<sup>1</sup>, JANG Seoyun<sup>1</sup>, KIM Dongwoon<sup>1</sup>, KIM Sungwon<sup>1</sup>, KIM Tongil<sup>1</sup>, WATANUKI Shun<sup>1</sup>, KO Sanghyun<sup>2</sup>, HUH Changgi<sup>3</sup>, JO Hyon-Suk<sup>3</sup>, KIM Bobae<sup>3</sup>, LEE Changhui<sup>3</sup>, LEE Junghyun<sup>3</sup>, LEE Sehwook<sup>3</sup>, RYU Min Sang<sup>3</sup>, KIM Doyeong<sup>4</sup>, LEE Hyupwoo<sup>4</sup>, LEE Jason<sup>4</sup>, LEE Yunjae<sup>4</sup>, SON Youngwan<sup>4</sup>, WATSON Ian<sup>4</sup>, CHEON Yechan<sup>5</sup>, KIM Yongsun<sup>5</sup>, KIM Yongjun<sup>6</sup>, RYU Jaehyeok<sup>6</sup>, LIM Sanghoon<sup>6</sup>, KIM Beomkyu<sup>7</sup> (<sup>1</sup>Department of Physics, Yonsei University, <sup>2</sup>Department of Physics, Seoul National University, <sup>3</sup>Department of Physics, Kyungpook National University, <sup>4</sup>Department of Physics, University of Seoul, <sup>5</sup>Department of Physics, Sejong University, <sup>6</sup>Department of Physics, Pusan National University, <sup>7</sup>Department of Physics, Sungkyunkwan University)

**B2.06\*****Gravitational Waves and PBHs from Tachyonic Instability in Higgs-R<sup>2</sup> Inflation /**

PARK Seongchan<sup>\*1</sup>, CHEONG Dhong Yeon<sup>1</sup> (<sup>1</sup>Yonsei University)

**B3.05\*****A New Analysis Method of the TexAT Experimental Data at High Beam Intensity /**

PARK Chaeyeon<sup>1,2</sup>, HAHN Insik<sup>\*2</sup>, AHN Sunghoon<sup>2</sup> (<sup>1</sup>Department of Physics, Ewha Womans University, <sup>2</sup>Center for Exotic Nuclear Studies, IBS)

**B6.05\*****Direct observation of interfacial charge trapping in SrRuO<sub>3</sub>/SrTiO<sub>3</sub> heterostructures through noise spectroscopy /**

LEE Hyungwoo<sup>\*1,2</sup>, JEON Jaeyoung<sup>1,2</sup> (<sup>1</sup>Department of Physics, Ajou University, <sup>2</sup>Department of Energy Systems Research, Ajou University)

**B10.01\*****Electrical Improvement using PtSe<sub>2</sub>/PtTe<sub>2</sub> Edge Contact Synthesized by Molecular Beam Epitaxy**

/ KIM Hyeon-Sik<sup>2</sup>, JEONG Jaehun<sup>2</sup>, KWON Gi-Hyeon<sup>2</sup>, CHO Mann Ho<sup>\*2,3</sup> (<sup>1</sup>Yonsei University, <sup>2</sup>Department of Physics, Yonsei University, <sup>3</sup>Department of System Semiconductor Engineering, Yonsei University)

**B10.04\*****Mechanical behaviors of graphene nano-mechanical resonator under strain in different directions /**

JE Yugyeong<sup>1</sup>, SHIN Dong Hoon<sup>2</sup>, JEONG Hyunjeong<sup>1</sup>, JEONG Hyeonhui<sup>1</sup>, LEE Sang-Wook<sup>\*1</sup> (<sup>1</sup>Department of Physics, Ewha Womans University, <sup>2</sup>Kavli Institute of Nanoscience, Delft University of Technology)

#### **C1.04\***

**Search for excited leptons in lly final states at 13 TeV / KIM Bobae<sup>\*1</sup>, HA Seungkyu<sup>2</sup>, KIM Minsuk<sup>4</sup>, LEE Sehwook<sup>1</sup>, NAM Kyungwook<sup>3</sup>, YOO Hwidong<sup>2</sup> (<sup>1</sup>Kyungpook National University, <sup>2</sup>Department of physics, Yonsei University, <sup>3</sup>Department of physics, Kansas State University, <sup>4</sup>Department of physics, Gangneung Wonju National University)**

#### **C1.07\***

**Search for new physics inside jets using non-isolated leptons / LEE Joon-Bin<sup>1</sup>, YANG Un-ki<sup>1</sup> (<sup>1</sup>Department of physics and astronomy, Seoul National University)**

#### **C1.09\***

**Measurement of Noise term in JER using random cones method at CMS detector / YOO Hwidong<sup>\*1</sup>, CHO Guk<sup>1</sup>, HA Seungkyu<sup>1</sup>, KIM Minsuk<sup>2</sup> (<sup>1</sup>Department of Physics, Yonsei University, <sup>2</sup>Department of Physics, Gangneung Wonju National University)**

#### **C2.06\***

**Portraying Double Higgs at the Large Hadron Collider / PI Jun Seung<sup>1</sup>, KIM Jeong Han<sup>\*1</sup> (<sup>1</sup>Department of Physics, Chungbuk National University)**

#### **C3.04\***

**Measurement of the cross sections for the <sup>209</sup>Bi(n,4n)<sup>206</sup>Bi and <sup>232</sup>Th(n,6n)<sup>227</sup>Th reactions by using monoenergetic neutrons generated by the <sup>9</sup>Be(p,n)<sup>9</sup>B reaction / MOON Dal-Ho<sup>1</sup>, CHAVAN Vivek Raghunath<sup>1</sup>, HONG Seung Woo<sup>\*1</sup> (<sup>1</sup>Department of Physics, Sungkyunkwan University)**

#### **C10.04\***

**Electrically controllable neuromodulation emulated by 2D weight-tunable memristor for neuromorphic application / HUH Woong<sup>1</sup>, JANG Seonghoon<sup>1</sup>, SO Jae-Pil<sup>2</sup>, KIM Jong Chan<sup>3</sup>, LEE Donghun<sup>1</sup>, KIM Yeon Ho<sup>1</sup>, PARK Hong-Gyu<sup>2</sup>, JEONG Hu Young<sup>3</sup>, WANG Gunuk<sup>1,4</sup>, LEE Chul-Ho<sup>\*1,4</sup> (<sup>1</sup>KU-KIST Graduate School of Converging Science and Technology, Korea University, <sup>2</sup>Department of Physics, Korea University, <sup>3</sup>School of Material Science and Engineering, UNIST, <sup>4</sup>Department of Integrative Energy Engineering, Korea University)**

#### **C12.01\***

**Molecular-scale photo-responsive heterojunction device with two-dimensional semiconductor / SHIN Jaeho<sup>1</sup>, YANG Seunghoon<sup>1</sup>, EO Jung Sun<sup>1</sup>, JEON Takkyeong<sup>1</sup>, LEE Chul-Ho<sup>1,2</sup>, WANG Gunuk<sup>\*1,2</sup> (<sup>1</sup>KU-KIST Graduate School of Converging Science and Technology, Korea University, <sup>2</sup>Department of Integrative Energy Engineering, Korea University)**

### **C12.05\***

**Fluorescent spectroscopy and Doppler imaging of Yb atomic gas via 399nm** / CHOI Taeyoung<sup>\*1</sup>, KIM Hyerin<sup>1</sup>, YUM Dahyun<sup>1</sup>, YOU Jieun<sup>1</sup>, LEE Hyein<sup>1</sup>, KIM Minjae<sup>1</sup> (<sup>1</sup>Department of Physics, Ewha Womans University)

### **C19.05\***

**Approaching ideal visibility in singlet-triplet qubit operations using energy-selective tunneling-based Hamiltonian estimation** / KIM Jehyun<sup>1</sup>, JANG Wonjin<sup>1</sup>, JANG Hyeongyu<sup>1</sup>, PARK Jaemin<sup>1</sup>, SONG Youngwook<sup>1</sup>, CHO Min-Kyun<sup>1</sup>, YUN Jongin<sup>1</sup>, SHIM Sangwoo<sup>1</sup>, SOHN Hanseo<sup>1</sup>, JUNG Hwanchul<sup>2</sup>, UMANSKY Vladimir<sup>3</sup>, KIM Dohun<sup>\*1</sup> (<sup>1</sup>Department of Physics and Astronomy, Seoul National University, <sup>2</sup>Department of Physics, Pusan National University, <sup>3</sup>Braun Center for Submicron Research, Department of Condensed Matter Physics, Weizmann Institute of Science)

### **C19.06\***

**Exciton complexes in gate-tuned transition metal dichalcogenides** / LEE Young-Jun<sup>1</sup>, JUNG Jinwoo<sup>1</sup>, KIM Ji-Yeon<sup>1</sup>, CHO Chang-Hee<sup>\*1</sup> (<sup>1</sup>Department of Physics and Chemistry, DGIST)

### **D2.06\***

**A KSVZ sensitive axion search experiment around 24.5  $\mu\text{eV}$  with an 8-cell microwave resonant cavity and a Josephson Parametric Amplifier** / KUTLU Caglar<sup>1,2</sup>, LEE Soohyung<sup>\*1</sup>, UCHAIKIN Sergey<sup>1</sup>, AHN Saebyeok<sup>1,2</sup>, JEONG Junu<sup>2</sup>, BAE Seongjae<sup>1,2</sup>, YOUN Sungwoo<sup>2</sup>, SEMERTZIDIS Yannis K<sup>1,2</sup> (<sup>1</sup>Physics, KAIST, <sup>2</sup>Center for Axion and Precision Physics Research, IBS)

### **D2.09\***

**Performance of the trigger-veto detector for KAEM** / KIM Bobae<sup>\*1</sup>, HUH Changgi<sup>1</sup>, LEE Junghyun<sup>1</sup>, RYE Min Sang<sup>2</sup>, LEE Sehwook<sup>1</sup>, HAUPTMAN John<sup>3</sup> (<sup>1</sup>Kyungpook National University, <sup>2</sup>Center for High Energy Physics, Kyungpook National University, <sup>3</sup>Department of Physics, Iowa State University)

### **D5.05\***

**Chaotic nonlinear dynamics in magnetic skyrmions** / PARK Gyuyoung<sup>1</sup>, KIM Sang-koog<sup>\*1</sup> (<sup>1</sup>Seoul National University)

### **D8.01\***

**Prediction of dual topological nature in NaZnBi** / LEE Hyunggeun<sup>1</sup>, KANG Yoon-Gu<sup>1</sup>, JUNG Myung-Chul<sup>1</sup>, HAN Myung Joon<sup>\*1</sup>, CHANG Kee Joo<sup>1</sup> (<sup>1</sup>Department of Physics, KAIST)

### **D8.02\***

**Vestige of hourglass Weyl fermion and anomalous Hall effect in non-collinear antiferromagnet**

**Co<sub>1/3</sub>TaS<sub>2</sub>** / KANG Yoon-Gu<sup>1</sup>, PARK Pyeongjae<sup>2,3</sup>, PARK Je-Geun<sup>2,3,4</sup>, HAN Myung Joon<sup>\*1</sup> (<sup>1</sup>Department of Physics, KAIST, <sup>2</sup>Center for Quantum Materials, Seoul National University, <sup>3</sup>Department of Physics & Astronomy, Seoul National University, <sup>4</sup>Institute of Applied Physics, Seoul National University)

**D10.03\***

**Heteroepitaxial growth of  $\gamma$ -GeSe crystals** / JUNG Joong-Eon<sup>1</sup>, LEE Sol<sup>1</sup>, LEE Yangjin<sup>1</sup>, PARK Jinsub<sup>1</sup>, KIM Kwanpyo<sup>\*1</sup> (<sup>1</sup>Physics, Yonsei University)

**D10.06\***

**Droplet evaporation and absorption in porous materials** / GONÇALVES Marta<sup>1</sup>, KIM Jin Young<sup>1,2</sup>, KIM Yeseul<sup>1,2</sup>, RUBAB Najab<sup>2</sup>, JUNG Narina<sup>2</sup>, ASAI Takeshi<sup>3</sup>, HONG Sungchan<sup>3</sup>, WEON Byung Mook<sup>\*1,2</sup> (<sup>1</sup>School of Advanced Materials Science and Engineering SKKU Advanced Institute of Nanotechnology (SAINT, Sungkyunkwan University, <sup>2</sup>Research Center for Advanced Materials Technology, Sungkyunkwan University, <sup>3</sup>Faculty of Health and Sports Science, University of Tsukuba)

**D13.04\***

**Effects of higher-order components in hypergraphs** / KIM Jung-Ho<sup>1</sup>, GOH KWANG-IL<sup>\*1</sup> (<sup>1</sup>Korea University)

**D15.01\***

**Numerical study of resonantly growing long beam instability in over-dense plasma** / MOON Kook-Jin<sup>1</sup>, CHUNG Moses<sup>\*1</sup> (<sup>1</sup>Department of Physics, UNIST)

**E13.05\***

**Continuous phase transition in Brownian Potts Model: Suppression of phase coexistence by particle diffusion** / WOO Chul-Ung<sup>1</sup>, RIEGER Heiko<sup>2</sup>, NOH Jae Dong<sup>\*1</sup> (<sup>1</sup>Department of Physics, University of Seoul, <sup>2</sup>Department of Theoretical Physics & Center for Biophysics, Saarland University)

**E17.05\***

**Maximum-Independent-Set Experiments with Random Arrays of Rydberg Atoms** / KIM Kangheun<sup>1</sup>, KIM Minhyuk<sup>1</sup>, AHN Jaewook<sup>\*1</sup> (<sup>1</sup>Physics, KAIST)

**F1.06\***

**Studies on the detector modules for SUBMET** / YOO Jae Hyeok<sup>\*1</sup>, JEONG Hoyong<sup>1</sup> (<sup>1</sup>Physics, Korea University)

**F17.01\***

**Observation of universal coarsening dynamics in a ferromagnetic spinor Bose-Einstein**

**condensate** / HUH SeungJung<sup>1</sup>, SEO Jihoon<sup>1</sup>, KWON Kiryang<sup>1</sup>, HUR Junhyeok<sup>1</sup>, CHOI Jae Yoon<sup>\*1</sup>  
(<sup>1</sup>Physics Department, KAIST)

**F17.06\***

**Observation of interplay between propagations of phase front and phase information during defect formation on a quenched inhomogeneous Bose gas** / KIM Myeonghyeon<sup>1</sup>, RABGA Tenzin<sup>2</sup>, LEE Yangheon<sup>1,2</sup>, BAE Dalmin<sup>1,2</sup>, GOO Junhong<sup>1</sup>, SHIN Yong-il<sup>\*1,2,3</sup> (<sup>1</sup>Department of Physics and Astronomy, Seoul National University, <sup>2</sup>Center for Correlated Electron Systems, Institute for Basic Science, <sup>3</sup>Institute of Applied Physics, Seoul National University)

**G6.03\***

**Anisotropic metamagnetic transition and intrinsic Berry curvature in magnetic Weyl semimetal NdAlGe** / CHO Beong Ki<sup>\*1</sup>, RHYEE Jong-Soo<sup>\*3</sup>, CHO Keun ki<sup>1,2</sup>, HAN Song Hee<sup>4</sup>, YOON Seunggha<sup>2</sup> (<sup>1</sup>School of Materials Science and Engineering, GIST, <sup>2</sup>Green Energy & Nano Technology R&D Group, KITECH, <sup>3</sup>Department of Applied Physics and Institute of Natural Sciences, Kyung Hee University, <sup>4</sup>Division of Navigation Science, Mokpo National Maritime University)

**G7.02\***

**Steady Floquet-Andreev States in graphene Josephson junctions** / PARK Sein<sup>1</sup>, LEE Wonjun<sup>1,3</sup>, JANG Seong<sup>1</sup>, CHOI Yong-Bin<sup>1</sup>, PARK Jinho<sup>1</sup>, CHAN Jung Woo<sup>1</sup>, WATANABE Kenji<sup>2</sup>, TANIGUCHI Takashi<sup>2</sup>, CHO Gil Young<sup>1,3,4</sup>, LEE Gil-Ho<sup>\*1,3</sup> (<sup>1</sup>Department of Physics, POSTECH, <sup>2</sup>Research Center for Functional Materials, NIMS, <sup>3</sup>, Asia-Pacific Center for Theoretical Physics(APCTP), <sup>4</sup>Center for Artificial Low Dimensional Electronic Systems, IBS)

**G7.05\***

**Theoretical study of spin-valley polarized electronic structures of twisted bilayer graphene** / CHO Yosep<sup>1</sup>, CHOI Young Woo<sup>1,2</sup>, CHOI Hyoung Joon<sup>\*1</sup> (<sup>1</sup>Department of Physics, Yonsei University, <sup>2</sup>Department of Physics, University of California, Berkeley)

**G9.01\***

**Kondo interaction in FeTe and its potential role in the magnetic order** / KIM Younsik<sup>1,2</sup>, KIM Minsoo<sup>1,2</sup>, KIM Min-Seok<sup>3</sup>, CHENG Cheng-Maw<sup>4</sup>, CHOI Joonyoung<sup>5</sup>, JUNG Saegyeol<sup>1,2</sup>, LU Donghui<sup>6</sup>, KIM Jong Hyuk<sup>7</sup>, CHO Soohyun<sup>8</sup>, SONG Dongjoon<sup>1,2</sup>, OH Dong Jin<sup>1,2</sup>, YU Li<sup>9</sup>, CHOI Young Jai<sup>7</sup>, KIM Hyeong-Do<sup>10</sup>, HAN Jung Hoon<sup>11</sup>, JO Youn Jung<sup>5</sup>, SEO Jungpil<sup>3</sup>, HUH Soon Sang<sup>1,2</sup>, KIM Changyoung<sup>\*1,2</sup> (<sup>1</sup>Center for Correlated Electron System, Institute for Basics Science, <sup>2</sup>Department of Physics and Astronomy, Seoul National University, <sup>3</sup>Department of Emerging Materials Science, DGIST, <sup>4</sup>-, National Synchrotron Radiation Research Center, <sup>5</sup>Department of Physics, Kyungpook

National University, <sup>6</sup>Stanford Synchrotron Radiation Light source, SLAC National Accelerator Laboratory, <sup>7</sup>Department of Physics, Yonsei University, <sup>8</sup>Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, <sup>9</sup>Beijing National Laboratory for Condensed Matter Physics and Institute of Physics, Chinese Academy of Sciences, <sup>10</sup>XFEL Beamline Division, Pohang Accelerator Laboratory, <sup>11</sup>Department of Physics, Sungkyunkwan University)

#### **G9.04\***

**Symmetry-preserving strain engineering of Hundness and Mottness in a two-dimensional correlated system** / KO Eun Kyo<sup>1,2</sup>, HAN Sungsoo<sup>1,2</sup>, SOHN Changhee<sup>3</sup>, LEE Sangmin<sup>4</sup>, KIM Choong Hyun<sup>1,2</sup>, KIM Changyoung<sup>1,2</sup>, NOH Tae Won<sup>\*1,2</sup> (<sup>1</sup>Department of Physics and Astronomy, Seoul National University, <sup>2</sup>Center for Correlated Electron Systems, CCES (IBS), <sup>3</sup>Department of Physics, UNIST, <sup>4</sup>Department of Materials Science and Engineering and Research Institute of Advanced Materials, Seoul National University)

#### **G11.02\***

**Colossal THz emission by Spin-to-Charge Conversion in topologically non-trivial  $\text{Bi}_{1-x}\text{Sb}_x$**  / RHO Seungwon<sup>2</sup>, PARK Hanbum<sup>2</sup>, KIM Jonghoon<sup>2</sup>, CHO Mann Ho<sup>\*2,3</sup> (<sup>1</sup>Yonsei University, <sup>2</sup>Department of Physics, Yonsei University, <sup>3</sup>Department of System Semiconductor Engineering, Yonsei University)

#### **G11.06\***

**Anomalous domain switching dynamics in  $\text{Si:HfO}_2$  thin film capacitors** / KIM Yoon Ki<sup>1</sup>, YOO Hyo Bin<sup>1</sup>, YANG Sang Mo<sup>\*1</sup> (<sup>1</sup>Department of Physics, Sogang University)

#### **G19.05\***

**Fabrication of narrow bandgap  $\text{CuInSe}_2$  (CIS) solar cell via solution-based spray deposition** / MINA Md Salahuddin<sup>1</sup>, ENKHBAYAR Enkhjargal<sup>1</sup>, KIM JunHo<sup>\*1</sup> (<sup>1</sup>Incheon National University)

#### **H3.02\***

**Model study on the collectivity in small collision systems of different geometry** / LIM SangHoon<sup>\*1</sup>, LIM Hyunji<sup>1</sup> (<sup>1</sup>Physics Department, Pusan National University)

#### **H3.05\***

**Measurement of the transverse momentum ( $j_T$ ) distribution of jet fragmentation in 5.02 TeV pp collision with ALICE** / LIM SangHoon<sup>\*1</sup>, RYU Jaehyeok<sup>1</sup> (<sup>1</sup>Physics Department, Pusan National University)

#### **H3.08\***

**Production of molecular configuration hadron** / YOON HyungOk<sup>1</sup>, LEE Su Houn<sup>\*1</sup>, LIM

SangHoon<sup>2</sup>, CHO Sung Tae<sup>3</sup>, KIM Yongsun<sup>4</sup> (<sup>1</sup>Yonsei University, <sup>2</sup>Department of Physics, Pusan National University, <sup>3</sup>Division of Science Education , Kangwon National University, <sup>4</sup>Department of Physics, Sejong University)

#### **H6.01\***

**Anisotropic nature and spin-flop transition in antiferromagnetic NiPS<sub>3</sub>** / KIEM Do Hoon<sup>1</sup>, NAUMAN Muhammad<sup>5</sup>, CHOI Joonyoung<sup>2</sup>, PARK Je-Geun<sup>3,4</sup>, HAN Myung Joon<sup>\*1</sup>, JO Younjung<sup>2</sup> (<sup>1</sup>Department of Physics, KAIST, <sup>2</sup>Department of Physics, Kyungpook National University, <sup>3</sup>Department of Physics and Astronomy, Seoul National University, <sup>4</sup>Center for Quantum Materials, Seoul National University, <sup>5</sup>Division of Mathematical and Physical Sciences, Institute of Science and Technology (IST))

#### **H9.04\***

**Exotic Thermal Transitions with Spontaneous Symmetry Breaking** / MOON Eun-Gook<sup>\*1</sup>, OH Hanbit<sup>1</sup> (<sup>1</sup>physics, KAIST)

#### **H11.02\***

**Dual Ag-Graded Structure Engineering for High Efficiency ACZTSSe Solar Cells** / ENKHBAT Temujin<sup>1</sup>, ENKHBAYAR Enkhjargal<sup>1</sup>, MINA Md Salahuddin<sup>1</sup>, KIM JunHo<sup>\*1</sup> (<sup>1</sup>Incheon National University)

#### **I3.03\***

**The h<sub>1</sub> axial-vector meson in the coupled-channel approach** / CLYMTON Samson<sup>1</sup>, KIM Hyun-Chul<sup>\*1</sup> (<sup>1</sup>Inha University)

#### **I16.04\***

**투명 다층 센서를 이용한 3차원 위치, 각도 정보 측정** / CHOI Minho<sup>1</sup>, CHOI Jaewu<sup>\*1</sup> (<sup>1</sup>Information Display, Kyung Hee University)