

<2018 가을학술논문발표회 우수발표상 수상명단(구두발표부문)>

\* 총 68건

**A3.03\***

**Development of track isolation algorithm for Level-1 pixel electron trigger for CMS phase 2 upgrade / 문창성<sup>\*1</sup>, 이종호<sup>1</sup> (1 경북대학교 물리학과)**

**A3.09\***

**High-pT muon identification in the CMS / 오민석<sup>\*1</sup>, 유휘동<sup>1</sup> (1 서울대학교 물리학과)**

**A4.04\***

**Super-resolution Optical Fluctuation Imaging with near-field speckle pattern illumination (NS-SOFI) / 최영<sup>\*1</sup>, 김민관<sup>\*1, 2</sup>, 박충현<sup>\*1</sup>, 조용훈<sup>\*1</sup> (1 한국과학기술원 물리학과, 2 한국과학기술원 나노과학기술대학원)**

**A10.07\***

**Enhanced charge injection properties of organic field effect transistors by selective doping through solid-state diffusion / 김영록<sup>1</sup>, 정승준<sup>2</sup>, 조경준<sup>1</sup>, 황왕택<sup>1</sup>, 유대경<sup>1</sup>, 김재근<sup>1</sup>, 이우철<sup>1</sup>, 송영걸<sup>1</sup>, 안희범<sup>1</sup>, 강기훈<sup>\*1</sup>, 이택희<sup>\*1</sup> (1 서울대학교 물리학과, 2 한국과학기술연구원)**

**A11.06\***

**The Effects of Additives on Wetting Behavior of Confined Lyotropic Chromonic Liquid Crystals / 이혜송<sup>1</sup>, 정준우<sup>\*1</sup> (1 울산과학기술원 물리학과)**

**B3.01\***

**Study of the Drell-Yan differential cross section measurement with 2016 data at 13 TeV / 배달민<sup>\*1</sup>, 유휘동<sup>1</sup> (1 서울대학교 자연과학대학 물리천문학부)**

**B3.09\***

**Search for a light charged Higgs boson decaying to W and pseudoscalar Higgs bosons in proton-proton collisions at 13 TeV using CMS detector / 변지환<sup>\*1</sup>, 유금봉<sup>1</sup>, 김현수<sup>2</sup>, 양운기<sup>\*1</sup> (1 서울대학교 물리천문학부, 2 세종대학교 물리천문학과)**

**B4.04**

**Field enhancement in metallic nano-structures induced by femtosecond laser pulses / 김경승<sup>2</sup>, 양찬석<sup>1</sup>, 황성인<sup>2</sup>, 남창희<sup>1, 2</sup>, 최성호<sup>3</sup>, 김승철<sup>4</sup>, 김경택<sup>\*1, 2</sup> (1 기초과학연구원 초강력레이저과학연구단, 2 광주과학기술원 물리광학과, 3 포항공과대학교 물리학과, 4 부산대학교 광메카트로닉스공학과)**

### B5.03\*

냉각원자를 이용한 고성능 마이크로파 소형원자시계 개발 / 최경원<sup>1,2</sup>, 이상민<sup>1,2</sup>, 홍현규<sup>1</sup>, 허명선<sup>1</sup>, 이상범<sup>1</sup>, 권택용<sup>1</sup>, 박상언<sup>\*1</sup> (<sup>1</sup>한국표준과학연구원 광기술표준부, <sup>2</sup>과학기술연합대학원대학교)

### B9.04\*

Highly Stretchable Heater with Uniform and High Temperature Joule Heating properties using Carbon Nanotube Sheets and Elastomer / 이유락<sup>1</sup>, 김정균<sup>1</sup>, 서동석<sup>\*1</sup> (<sup>1</sup>성균관대학교 에너지과학과)

### B14.02\*

Topological phase transition to Weyl semimetal phase in magnetically doped semiconductors / KIM Jinsu<sup>1</sup>, Ji Sang Hyun<sup>1</sup>, KIM Kyung-Min<sup>2</sup>, KIM Ki-Seok<sup>2</sup>, 정명화<sup>\*1</sup> (<sup>1</sup>Department of Physics, Sogang University, <sup>2</sup>Department of Physics, Pohang University of Science and Technology)

### B14.07\*

Magnetic properties and magnetocaloric effect in RFe<sub>2</sub>Ge<sub>2</sub> compounds (R =Gd, Tb) / 조병기<sup>\*1</sup>, 김도연<sup>1</sup>, 송명석<sup>1</sup>, 조근기<sup>1</sup>, 이재웅<sup>1</sup> (<sup>1</sup>광주과학기술원 신소재공학부)

### C2.02\*

Calculation of ground-state energy for light nuclei with the Strutinsky's method / 천명기<sup>\*1</sup>, 김성현<sup>1</sup>, 하은자<sup>1</sup> (<sup>1</sup>송실대학교 물리학과)

### C3.04\*

Linear-T resistivity at high temperature / 정현식<sup>\*1</sup>, 김근영<sup>1</sup>, NIU Chao<sup>1</sup> (<sup>1</sup>광주과학기술원 물리광과학과)

### C6.01\*

Structural dynamics of DNA for CRISPR-Cas9 nuclease specificity regulated by electrostatic interaction with the REC2 domain / 성기원<sup>1</sup>, 박진호<sup>1</sup>, 김영규<sup>2</sup>, 이남기<sup>1</sup>, 김성근<sup>\*1</sup> (<sup>1</sup>서울대학교 화학부, <sup>2</sup>(주)루미맥 연구개발 사업부)

### C6.05\*

Real-time imaging of endogenous mRNA in the live mouse brain / SHIM Jae Youn<sup>1</sup>, LEE Byung Hun<sup>1</sup>, MOON Hyungseok<sup>1</sup>, 박혜윤<sup>\*1</sup> (<sup>1</sup>서울대학교 )

### C7.03\*

Optoelectrical properties of chalcogenide-structured polycrystalline thin films on flexible polymer substrates by scanning probe microscopy and micro-Raman mapping / 김주란<sup>1</sup>,

김기환<sup>2</sup>, 곽지혜<sup>2</sup>, 윤재호<sup>2</sup>, 조윌렴<sup>\*1</sup> (<sup>1</sup>Department of Physics, and New and Renewable Energy Research Center, Ewha Womans University, <sup>2</sup>Photovoltaic Laboratory, Korea Institute of Energy Research (KIER))

**C7.06\***

**Motion tracking sensors by dielectric nanoparticle and hydroxy-terminated PDMS layers through triboelectric effect** / 김재호<sup>2</sup>, 양승모<sup>1</sup>, 김우종<sup>2</sup>, 양정엽<sup>3</sup>, 홍진표<sup>\*1,2</sup> (<sup>1</sup>한양대학교 물리학과, <sup>2</sup>한양대학교 나노반도체공학과, <sup>3</sup>군산대학교 물리학과)

**C9.03\***

**Interlayer interaction of few-layer 2H- and 3R-MoS<sub>2</sub>** / 나웅기<sup>1</sup>, 김강원<sup>1</sup>, 이재웅<sup>1</sup>, 정현식<sup>\*1</sup> (<sup>1</sup>서강대학교 물리학과)

**C9.04\***

**Atomic-Scale Imaging of Phosphorene by Aberration-Corrected Transmission Electron Microscopy** / 이양진<sup>1</sup>, 정후영<sup>2</sup>, 김관표<sup>\*1</sup> (<sup>1</sup>Department of Physics, Yonsei University, <sup>2</sup>UNIST Central Research Facilities (UCRF), Ulsan National Institute of Science and Technology (UNIST))

**C10.03\***

**Toward designing organic epsilon-near-zero materials in the case of curcuminoid-borondifluoride** / 최규리<sup>1</sup>, 김대현<sup>1</sup>, 최은영<sup>1</sup>, 김민재<sup>1</sup>, 김은선<sup>1</sup>, PLACIDE Virginie<sup>1</sup>, 이연의<sup>1</sup>, ZABOROVA Elena<sup>2</sup>, MATHEVET Fabrice<sup>3</sup>, 김효정<sup>4</sup>, RIBIERRE Jean-Charles<sup>5</sup>, 우정원<sup>\*1</sup>, FAGES Frédéric<sup>2</sup>, D'ALÉO Anthony<sup>6</sup> (<sup>1</sup>이화여자대학교 물리학과, <sup>2</sup>CNRS, CINaM UMR 7325, Aix Marseille University, <sup>3</sup>IPCM UMR 8232, Sorbonne University, <sup>4</sup>부산대학교 유기재료공학과, <sup>5</sup>State Key Laboratory of Modern Optical Instrumentation, Zhejiang University, <sup>6</sup>UMI 2B FUEL, Seoul)

**C11.07\***

**Sex-ratio bias induced by mutation in the haploid model** / 김민재<sup>1</sup>, 정형채<sup>2</sup>, 백승기<sup>\*1</sup> (<sup>1</sup>부경대학교 물리학과, <sup>2</sup>세종대학교 물리천문학과)

**C13.07\***

**Perception of Science Teachers for Integrating Python and Jupyter Notebook in Development of Physics Teaching Material** / 채승철<sup>\*1</sup>, 이준행<sup>1</sup>, 지영래<sup>1</sup> (<sup>1</sup>서울대학교 물리교육과)

**C15.06\***

**Photogalvanic effect in monolayer SnTe: first-principle TDDFT study** / 신동빈<sup>1</sup>, 김정우<sup>1</sup>, 진호섭<sup>\*1</sup>, 박노정<sup>\*1</sup> (<sup>1</sup>울산과학기술원 물리학과)

**C15.07\***

**Limitation of van der Waals approximations in surface and molecule interaction / 박가람<sup>1</sup>, 정석민<sup>\*1</sup> (1 전북대학교 물리학과)**

**D1.05\***

**Injection Scheme with Deflecting Cavity for Ultimate Storage Ring / 신승환<sup>\*1</sup>, 김재현<sup>2</sup>, 장경수<sup>2</sup>, 윤무현<sup>2</sup>, 오봉훈<sup>1</sup>, 이재유<sup>1</sup>, 고진주<sup>1</sup>, 박용운<sup>1</sup>, 황일문<sup>1</sup>, 하태균<sup>1</sup>, 김동연<sup>1</sup>, 김상훈<sup>\*3</sup> (1 포항공과대학교 물리학과, 2 포항가속기연구소 가속기부, 3FRIB, MSU)**

**D4.04\***

**Terahertz-photoemission-induced polymer crosslinking in nanoantennas / 박용균<sup>1</sup>, 이유진<sup>1</sup>, 강태희<sup>1</sup>, 정지윤<sup>1</sup>, 김대식<sup>\*1</sup> (1Department of Physics and Astronomy and Center for Atom Scale Electromagnetism, Seoul National University)**

**D5.01\***

**Dynamic blockade implementation to Rydberg atom pairs / 조한래<sup>1</sup>, 안재욱<sup>\*1</sup> (1 한국과학기술원 물리학과)**

**D6.04\***

**Synergistic inhibitory effect of  $\alpha$ -synuclein monomers and oligomers on SNARE-mediated lipid mixing / 유경지<sup>1</sup>, 이남기<sup>\*2</sup> (1 포항공과대학교 시스템생명공학부, 2 서울대학교 화학부)**

**D9.06\***

**Diffraction Gratings Fabricated by Scanning Probe Lithography / 송창훈<sup>1</sup>, 최지훈<sup>2</sup>, 조정식<sup>1</sup>, 최진현<sup>1</sup>, 노희소<sup>2</sup>, 장재원<sup>\*1</sup> (1 부경대학교 물리학과, 2 국민대학교 나노전자물리학과)**

**D10.02\***

**주기적인 나노구조를 도입한 글루코스 기반의 탄소 나노입자 박막 제작 및 발광 특성 연구 / 안희태<sup>2</sup>, 김태근<sup>2</sup>, 하나영<sup>\*1</sup> (1 아주대학교 물리학과, 2 아주대학교 에너지시스템학과)**

**D11.06\***

**Quantum thermodynamic bounds for the efficiency / 박종민<sup>1</sup>, 이상윤<sup>2</sup>, 천현명<sup>1</sup>, 노재동<sup>\*1</sup> (1Department of Physics, University of Seoul, 2Department of Physics, Korea Advanced Institute of Science and Technology)**

**D15.06\***

**Atomistic origins of low-resistance metal contacts to phase-engineered monolayer MoS<sub>2</sub> / 김태형<sup>1</sup>, 김용훈<sup>\*1,2</sup> (1 한국과학기술원 전기 및 전자 공학부, 2 한국과학기술원 EEWS 대학원)**

### E3.02\*

**Axino-like particle as late decaying dark matter: a solution to small-scale problems** / 배규정<sup>2</sup>, KAMADA Ayuki<sup>2</sup>, 김희중<sup>\*1</sup> (1 한국과학기술원 물리학과, 2Center for Theoretical Physics of the Universe, Institute for Basic Science (IBS))

### E11.02\*

**The role of Hund's coupling for the Mott transition in the multi-band system NiS<sub>2-x</sub>Se<sub>x</sub>** / 한가람<sup>1</sup>, 장보규<sup>2</sup>, 심지훈<sup>\*2,3,4</sup>, 김창영<sup>\*1</sup> (1 서울대학교 물리천문학부, 2 포항공과대학교 화학과, 3 포항공과대학교 물리학과, 4 포항공과대학교 첨단원자력공학부)

### E11.04\*

**Experimental observation for Jeff=1/2 state in CuAl<sub>2</sub>O<sub>4</sub>** / CHO Hwanbeom<sup>1,2</sup>, KIM Choong Hyun<sup>1,2</sup>, KIM Soyeun<sup>1,2</sup>, NOH Tae Won<sup>1,2</sup>, 박제근<sup>\*1,2</sup> (1 서울대학교 물리학과, 2IBS-CCES)

### F2.06\*

**Building Surface Detectors in Korea for the Telescope Array x4 experiment to study of UHECR** / 정효민<sup>1,2</sup>, 박일흥<sup>\*1,2</sup>, 정수민<sup>1,2</sup>, 이광호<sup>1,2</sup>, 양종만<sup>2</sup>, 천병구<sup>3</sup>, 김항배<sup>3</sup>, SAGAWA Hiroyuki<sup>4</sup> (1성균관대학교 물리학과, 2성균관대학교 한일 우주선 공동 연구센터, 3한양대학교 물리학과, 4동경대 일본 우주선 연구소)

### F11.07\*

**Resonant Hard X-ray Emission Spectroscopy of VO<sub>2</sub> Thin Films in Metallic and Insulating Phases** / 하성수<sup>1</sup>, 최석준<sup>2</sup>, 조인화<sup>2</sup>, 황병준<sup>2</sup>, 오호준<sup>2</sup>, MOHD Faiyaz<sup>2</sup>, 권오영<sup>2</sup>, 한승현<sup>2</sup>, 윤영민<sup>2</sup>, 오제욱<sup>2</sup>, 김명준<sup>2</sup>, 이수용<sup>3</sup>, 김진우<sup>2,3</sup>, 노도영<sup>\*2</sup> (1광주과학기술원 신소재공학부, 2광주과학기술원 물리광학과, 3포항가속기연구소)

### F14.03\*

**Dipole frustration and domain relaxation in ferroelectric triangular lattice** / 진혜진<sup>1</sup>, 노창재<sup>2</sup>, 조장현<sup>3</sup>, 문준식<sup>3</sup>, 이종석<sup>2</sup>, 김미영<sup>3</sup>, 신영한<sup>4</sup>, 조월림<sup>\*1</sup> (1이화여자대학교 물리학과, 2광주과학기술원 물리광학과, 3서울대학교 재료공학과, 4울산대학교 물리학과)

### G2.05\*

**Evidence for B<sup>0</sup> --> eta eta rare decay at Belle II experiment** / LEE I.S.<sup>1</sup>, UNNO Y.<sup>1</sup>, CHEON B.G.<sup>\*1</sup> (1한양대학교 물리학과)

### G3.05\*

**Boosting the discovery of di-Higgs production in events with two bottom quarks and two tau leptons at the LHC** / 반가영<sup>\*1</sup>, 조원상<sup>\*2</sup>, 박성찬<sup>\*1</sup> (1연세대학교 물리학과, 2서울대학교 물리천문학과 기초과학연구원)

**G5.09\***

**The production of  $\Xi_c^0$  in pp collisions at 13 TeV** / 권민정<sup>\*1</sup>, 서진주<sup>1</sup> (<sup>1</sup>인하대학교 물리학과)

**G7.02\***

**Resonant Excitation Photoluminescence in h-BN encapsulated WSe<sub>2</sub> monolayer** / 이기주<sup>\*1</sup>, 이성연<sup>1</sup>, 정태영<sup>1</sup> (<sup>1</sup>충남대학교 물리학과)

**G7.03\***

**B-doped black phosphorus p-n junction via plasma doping for high performance photodetector** / 김대경<sup>1</sup>, 정광식<sup>1</sup>, 홍석보<sup>1</sup>, 조만호<sup>\*1</sup> (<sup>1</sup>연세대학교 물리학과)

**G8.01\***

**Multi-material 4D printing of active multistable structures** / 정훈엽<sup>1</sup>, 안수찬<sup>1</sup>, 이은서<sup>2</sup>, 하상호<sup>2</sup>, 전영철<sup>\*1</sup>, 김남훈<sup>\*2</sup> (<sup>1</sup>울산과학기술원 신소재공학부, <sup>2</sup>울산과학기술원 기계항공 및 원자력공학부)

**G9.07\***

**Enhanced Photoconversion in Band-Structure Engineered 2D Monolithic Heterojunctions** / 양승훈<sup>1</sup>, 이관형<sup>2</sup>, 이철호<sup>\*1</sup> (<sup>1</sup>KU-KIST Graduate School of Converging Science and Technology, Korea University, <sup>2</sup>Department of Materials Science and Engineering, Yonsei University)

**G9.09\***

**Synaptic Barristor Based on Phase-engineered Two-dimensional Heterostructures** / HUH Woong<sup>1</sup>, JANG Seonghoon<sup>1</sup>, LEE Jae Yoon<sup>1</sup>, LEE Donghun<sup>1</sup>, LEE Jung Min<sup>2</sup>, PARK Hong-Gyu<sup>2</sup>, KIM Jong Chan<sup>3</sup>, JEONG Hu Young<sup>4</sup>, WANG Gunuk<sup>1</sup>, 이철호<sup>\*1</sup> (<sup>1</sup>KU-KIST Graduate School of Converging Science and Technology, Korea University, <sup>2</sup>Department of Physics, Korea, <sup>3</sup>School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST), <sup>4</sup>UNIST Central Research Facilities (UCRF), UNIST)

**G10.02\***

**Enhanced Photocatalytic Activity of Cu<sub>2</sub>O Micro-scaled Patterns** / 최진현<sup>1</sup>, 류제혁<sup>1</sup>, 황성필<sup>2</sup>, 장재원<sup>\*1</sup> (<sup>1</sup>Department of Physics, Pukyong National University, <sup>2</sup>Department of Advanced Materials Chemistry, Korea University)

**G10.04\***

**CH<sub>3</sub>NH<sub>3</sub>PbX<sub>3</sub> (X=Cl, Br, I) Perovskite Crystals: Optoelectronic Properties and Chemical Stability** / 정혜리<sup>1</sup>, NGUYEN Bich Phuong<sup>1</sup>, 조월림<sup>\*1</sup> (<sup>1</sup>이화여자대학교 물리학과)

### G12.01\*

**Electronic structures of graphitic Si nanoribbon: Seen from toy models / 여강모<sup>1</sup>, 정석민<sup>\*1</sup>**  
(<sup>1</sup>전북대학교 물리학과)

### G14.07\*

**Microscopic origin of inter-layer antiferromagnetism in bi-layer CrI<sub>3</sub> / 장승우<sup>1</sup>, 정민용<sup>1</sup>,  
윤흥기<sup>1</sup>, 이시헌<sup>1</sup>, 한명준<sup>\*1</sup> (<sup>1</sup>한국과학기술원 물리학과)**

### G15.04\*

**Versatile physical properties in new two-dimensional van der Waals materials composed of group IV-V elements / 이승준<sup>1</sup>, 권영균<sup>\*1</sup> (<sup>1</sup>경희대학교 물리학과)**

### H1.03\*

**Mode locking threshold experiments using resonant magnetic perturbation in KSTAR L-mode plasmas / YANG S.M.<sup>1</sup>, PARK J.-K.<sup>2</sup>, IN Y.<sup>3</sup>, LEE J.W.<sup>4</sup>, KO W.H.<sup>4</sup>, YOO J.W.<sup>4</sup>, HONG S.C.<sup>1</sup>, LEE K.D.<sup>4</sup>, SHI Y.J.<sup>1</sup>, LEE S.G.<sup>4</sup>, JUHN J.W.<sup>4</sup>, YOON S.W.<sup>4</sup>, 나용수<sup>\*1</sup> (<sup>1</sup>서울대학교 원자핵공학과, <sup>2</sup>프린스턴 플라즈마 물리 연구소, <sup>3</sup>울산 과학 기술원, <sup>4</sup>국가핵융합연구소)**

### H1.06\*

**Development and upgrade plans of Thomson scattering system on VEST / 김영기<sup>1</sup>, 김도연<sup>1</sup>, 이종하<sup>2</sup>, 유민구<sup>1,3</sup>, 이현영<sup>1</sup>, 황용석<sup>1</sup>, 나용수<sup>\*1</sup> (<sup>1</sup>서울대학교 원자핵공학과, <sup>2</sup>국가핵융합연구소 고성능플라즈마연구부, <sup>3</sup>Princeton Plasma Physics Laboratory)**

### H1.09\* [12:36 - 12:48]

**Collisionless zonal flow decay induced by resonant magnetic perturbations / 최경진<sup>1</sup>, 함택수<sup>\*1</sup>, 강병준<sup>1</sup> (<sup>1</sup>서울대학교 원자핵공학과)**

### H3.05\*

**Measurement of top quark mass in the dilepton channel using charmed meson in b-jet at 13 TeV / 김지현<sup>1</sup>, 이상훈<sup>\*1</sup>, 박인규<sup>1</sup>, 윤예빈<sup>1</sup>, 정동준<sup>1</sup> (<sup>1</sup>서울시립대학교 물리학과)**

### H3.06\*

**Search for CP violating anomalous top quark coupling in pp collisions with 2016 Data at dileptonic decay channel. / HA Seungkyu<sup>\*1</sup>, CHOI Suyong<sup>1</sup>, LEE Sehwook<sup>2</sup>, LIM Jae Hoon<sup>1</sup>**  
(<sup>1</sup>고려대학교 물리학과, <sup>2</sup>경북대학교 물리학과)

### H5.05\*

**Performance of a Time Projection Chamber for the J-PARC Hadron Experiments / 김신형<sup>1</sup>, 안정근<sup>\*1</sup> (<sup>1</sup>고려대학교 물리학과)**

#### H7.01\*

##### **Modulation of Optoelectronic Properties of Monolayer MoS<sub>2</sub> by Polyvinylpyrrolidone /**

방승호<sup>1,2</sup>, 이주찬<sup>1</sup>, DUONG Ngoc Thanh<sup>1</sup>, 박대영<sup>1,2</sup>, 김현<sup>1,2</sup>, 정문석<sup>1,2</sup> (<sup>1</sup>Department of Energy Science, Sungkyunkwan University, <sup>2</sup>Center for Integrated Nanostructure Physics, Institute for Basic Science, Sungkyunkwan University)

#### H7.03\*

##### **Enhancement of thermal stability and operation energy in Sb<sub>2</sub>Te<sub>3</sub> induced by Ag doping /**

황수빈<sup>1</sup>, 김다솔<sup>1</sup>, 한정화<sup>1</sup>, 정훈<sup>1</sup>, 조만호<sup>\*1</sup> (<sup>1</sup>연세대학교 물리학과)

#### H8.03\*

##### **Graphite Joule heater 결합을 통한 단층 MoS<sub>2</sub> field-effect transistor 의 능동 electrothermal local annealing 시스템 구현 /**

윤유주<sup>1,2</sup>, 주민규<sup>3</sup>, 김현<sup>1,2</sup>, 서동석<sup>\*1</sup> (<sup>1</sup>성균관대학교 에너지과학과, <sup>2</sup>기초과학연구원 나노구조물리연구단, <sup>3</sup>숙명 여자 대학교 응용물리학과)

#### H9.04\*

##### **Performance of spin orbit torque-driven electronic synapse functions /**

신정훈(Jeonghun)<sup>1</sup>, 양승모(Seungmo)<sup>1</sup>, 최진형(Jinhyung)<sup>1</sup>, 양정엽(Jungyup)<sup>2</sup>, 홍진표<sup>\*1</sup> (<sup>1</sup>한양대학교 물리학과, <sup>2</sup>군산대학교 물리학과)

#### H10.01\*

##### **Spin Seebeck effect of solution processed ferrimagnetic insulator thin film, Yttrium Iron**

**Garnet /** 유정우<sup>\*1</sup>, 오인선<sup>1</sup>, 박정민<sup>1</sup>, 조준현<sup>1</sup> (<sup>1</sup>울산과학기술원 기계신소재 공학부)

#### H10.07\*

##### **Study of charge transfer leading to chemical enhancement mechanism in Surface enhanced**

**Raman Spectroscopy (SERS) /** 김자영<sup>1</sup>, 김혜민<sup>1</sup>, 박준범<sup>2</sup>, 이규철<sup>2</sup>, 김남중<sup>2</sup>, 윤석현<sup>\*1</sup>

(<sup>1</sup>이화여자대학교 물리학과, <sup>2</sup>서울대학교 물리학과)

#### H11.03\* [11:24 - 11:36]

##### **Optical population of surface electron in topological insulator using 1eV-right photon /**

전지원<sup>1</sup>, 유광남<sup>1</sup>, MOON Jisoo<sup>2</sup>, OH Seongshik<sup>2</sup>, 최은집<sup>\*1</sup> (<sup>1</sup>서울시립대학교 물리학과,

<sup>2</sup>Department of Physics and Astronomy, Rutgers University of New Jersey)

#### H11.07\*

##### **Unique magnetic ground state in atomically designed SrRuO<sub>3</sub>/SrTiO<sub>3</sub> superlattices /**

정승교<sup>1</sup>, 우성민<sup>1</sup>, 김지웅<sup>2</sup>, 김영민<sup>3,4</sup>, 박성균<sup>2</sup>, 정후영<sup>5</sup>, 최우석<sup>\*1</sup> (<sup>1</sup>Department of Physics, Sungkyunkwan

University, <sup>2</sup>Department of Physics, Pusan National University, <sup>3</sup>Center for Integrated

Nanostructure Physics, Institute for Basic Science (IBS), <sup>4</sup>Department of Energy Sciences,



Sungkyunkwan University, <sup>5</sup>UNIST Central Research Facilities and School of Materials Science and Engineering, Ulsan National Institute of Science and Technology (UNIST))

#### **H12.05\***

##### **Error analysis of the cNOT gate constructed by MAP+Z gates in two-qubit circuit QED system**

/ NOH Taewan<sup>1</sup>, CHOI Gahyun<sup>1, 2</sup>, PARK Gwanyeo<sup>1, 3</sup>, PARK Kibog<sup>2</sup>, LEE Soon-Gul<sup>3</sup>, SONG Woon<sup>1</sup>, CHONG Yonuk<sup>\*1, 4</sup> (<sup>1</sup>Korea Research Institute of Standards and Science, Daejeon 34113, Korea, <sup>2</sup>Ulsan National Institute of Science and Technology, Ulsan 44919, Korea, <sup>3</sup>Korea University Sejong Campus, Sejong 30019, Korea, <sup>4</sup>University of Science and Technology, Daejeon 34113, Korea)

#### **H14.04\***

##### **Diluted magnetic Dirac-Weyl materials: Susceptibility and ferromagnetism in three-**

**dimensional chiral gapless semimetals** / 박상현<sup>1</sup>, 민홍기<sup>\*1</sup>, 황의현<sup>\*2</sup> (<sup>1</sup>Department of Physics and Astronomy, Seoul National University, <sup>2</sup>SKKU Advanced Institute of Nanotechnology and Department of Nano Engineering, <sup>3</sup>Condensed Matter Theory Center and Joint Quantum Institute, Department of Physics, University of Maryland)