

# 한국 물리학회 회보

2010. 10 제28권 제2호

2010년  
가을학술논문발표회  
및 임시총회

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휘닉스파크

2010. 10. 20(수) ~ 22(금)

## 특별세션 안내

### [A1] KPS-APCTP 기초강연

2010년 10월 20일 수요일 15:15-17:10

장소: 휘닉스볼룸

좌장: 이 철 의 실무이사장

- 15:15 - 15:20 인사말씀(기조강연 취지 및 환영사)  
이영백 회장
- 15:20 - 16:15 Particle Physics: Where We Are Trying to Go  
김영기 교수(U. Chicago and Fermi Lab)
- 16:15 - 17:10 Fractional Charges in Condensed Matter  
Fulde 소장(MPI and APCTP)

### [A2] 연구재단 세션 : 물리학 분야 미래발전과 증대방안

2010년 10월 20일 수요일 17:30-19:00

장소: 휘닉스볼룸

좌장: 이 철 의 실무이사장

- 17:30 - 17:40 인사말씀  
이영백 회장
- 17:40 - 18:00 2010년도 한국연구재단 수리과학단 사업 진행 결과 및 향후 계획  
이향숙 단장(연구재단)
- 18:00 - 18:20 물리학 분야의 미래 발전 전략과 우리의 과제  
김승환 교수(포항공대)
- 18:20 - 19:00 질의 응답 및 패널토론  
이향숙, 김선기, 김승환, 여인환, 정진수, 정현식, 황보창권

### [A3] 신진교수 세션: 외부 실험 장비를 이용한 연구

2010년 10월 20일 수요일 17:30-18:35

장소: 금강화

좌장: 정 난 주 사업부실무이사

- 17:30 - 17:35 인사말  
정세영(총무담당 실무이사)
- 17:35 - 18:05 KBSI 첨단 연구장비를 이용한 공동연구 활성화  
이주한(한국기초과학지원연구원 (KBSI))
- 18:05 - 18:35 대형설비(방사광가속기)를 이용한 연구  
김재영(포항가속기연구소)

#### [A4] Open KIAS 특강

2010년 10월 21일 목요일 13:45-15:45

장소: 금강화

좌장: 고 병 원 (KIAS)

#### 제목: 아주 작은 레이저

연사: 이용희 교수(KAIST)

- 경력사항: 1977년 서울대학교 물리학과 졸업  
1986년 아리조나 대학에서 광과학 박사  
1987-1991년 AT&T Bell 연구소 연구원  
1991년 - 현재 KAIST 물리학과 교수

#### 제목: Quantum Control

연사: 김명식 교수(영국 Imperial College)

- 경력사항: 임페리얼 칼리지에서 물리학 박사  
막스플랑크 연구원 훔볼트 펠로우  
로얄 아이리쉬 학술원 회원  
현재 임페리얼 칼리지 교수

#### [A5] 여성 세션

2010년 10월 21일 목요일 17:00-18:00

장소: 금강화

좌장: 임 혜 인 여성위원회 간사

- 17:00 - 17:30 물리하고 기업연구소에서 일하기  
김혜림(한국전력연구원)
- 17:30 - 18:00 지방대교수로 일한다  
정옥희(순천대 물리학과)

#### [A6] 대중강연

2010년 10월 21일 목요일 18:00-20:00

장소: 다이아몬드

좌장: 전 응 진 (KIAS)

#### 제목: 입자가속기와 텔레비전 수리공

연사: 최준곤 교수 (고려대)

- 경력사항: 1984년 서울대학교 물리학과 졸업  
1990년 Harvard University 입자물리이론으로 박사 학위  
1990-1992년 University of Washington에서 연구원으로 활동  
1992년 - 현재 고려대학교 물리학과 교수

**제목: 끈으로 엮어보는 우주, 블랙홀, 그리고 초전도체**

연사: 남순건 교수 (경희대)

- 경력사항: 1982년 서울대학교 물리학과 졸업  
1987년 Yale University 입자물리이론으로 박사 학위  
1987-1991년 Virginia Tech, MIT, 서울대학교에서 연구원으로 활동  
1992년 - 현재 경희대학교 물리학과 교수

*The Korean Physical Society*

## 구두발표논문 시간표



**[A1] KPS-APCTP 기초강연**

2010년 10월 20일 수요일 15:15-17:10

장소: 휘닉스볼룸

좌장: 이 철 의 실무이사장

[15:15-15:20]

인사말 / 이영백 물리학회 회장

**A-01 [15:20-16:15]****Particle Physics: Where We Are Trying to Go**

KIM Young-Kee(U. Chicago and Fermi Lab)

**A-02 [16:15-17:10]****Fractional Charges in Condensed Matter**

FULDE Peter(Asia Pacific Center for Theoretical Physics)

**[A2] 연구재단 세션: 물리학 분야 미래발전과 연구비 증대 방안**

2010년 10월 20일 수요일 17:30-19:00

장소: 휘닉스볼룸

좌장: 이 철 의 실무이사장

[17:30-17:40]

인사말 / 이영백 물리학회 회장

**A-03 [17:40-18:00]****2010년도 한국연구재단 수리과학단 사업 진행 결과 및 향후 계획**

이향숙(연구재단)

**A-04 [18:00-18:20]****물리학 분야의 미래 발전 전략과 우리의 과제 / 김승환(포항공대)**

[18:20-19:00]

질의 응답 및 패널토론 / 이향숙, 김선기, 김승환, 여인환, 정진수, 정현식, 황보창권

**[A3] 신진교수 세션: 외부 실험 장비를 이용한 연구**

2010년 10월 20일 수요일 17:30-18:35

장소: 금강화

좌장: 정 난 주 사업담당 부실무이사

[17:30-17:35]

인사말 / 정세영(총무담당 실무이사)

**A-05 [17:35-18:05]****KBSI 첨단 연구장비를 이용한 공동연구 활성화**

이주환(한국기초과학지원연구원)

A-06 [18:05-18:35]

대형설비(방사광가속기)를 이용한 연구 / 김재영(포항가속기연구소)

**[A4] 오픈 KIAS**

2010년 10월 21일 목요일 13:45-15:45

장소: 금강화

좌장: 고 병 원 KIAS

A-07 [13:45-14:45]

아주 작은 레이저 / 이윤희(KAIST)

A-08 [14:45-15:45]

Quantum Control / 김명식(영국 Imperial College)

**[A5] 여성세션**

2010년 10월 21일 목요일 17:00-18:00

장소: 금강화

좌장: 임 혜 인 여성위원회 간사

A-09 [17:00-17:30]

물리하고 기업연구소에서 일하기 / 김혜림(한국전력연구원)

A-10 [17:30-18:00]

지방대교수로 일한다 / 정옥희(순천대 물리학과)

**[A6] 대중강연**

2010년 10월 21일 목요일 18:00-20:00

장소: 다이아몬드

좌장: 전 응 진 KIAS

A-11 [18:00-19:00]

입자가속기와 텔레비전 수리공 / 최준곤(고려대)

A-12 [19:00-20:00]

끈으로 엮어보는 우주, 블랙홀, 그리고 초전도체 / 남순건(경희대)



**[PA1] Pioneering Symposium: Probing the Origin of Matter at LHC**

2010년 10월 21일 목요일 11:15-13:15

장소: 별개미취

좌장: 최 수 용 고려대

**PA-01** [11:15-11:45]**Prospect for Higgs Search at CMS / YU Intae**(Sungkyunkwan University)**PA-02** [11:45-12:15]**New Particle Searches at CMS / KIM DongHee**(WCU Collider Physics Research, Kyungpook National University)**PA-03** [12:15-12:45]**Probing Supersymmetry at the LHC**

CHOI Seong Youl(Department of Physics, Chonbuk National University)

**PA-04** [12:45-13:15]**Heavy-Ion Physics at CMS / PARK Inkyu**(Department of Physics, University of Seoul, Korea)**[PA2] Pioneering Symposium: Probing the Origin of Matter at LHC**

2010년 10월 21일 목요일 13:45-15:45

장소: 별개미취

좌장: 김 동 희 경북대

**PA-05** [13:45-14:15]**Korean ALICE Activities and high-pT Research with HMPID**

YOO, In-Kwon(Pusan National University), ALICE Collaboration

**PA-06** [14:15-14:45]**Heavy Quarkonium in Finite Temperature using NRQCD**

KIM Seyong(Sejong University), LOMBARDO M.-P.(LNF), OKTAY M.B.(U. of Utah), RYAN S.(U. of Dublin), SINCLAIR D.K.(ANL), SKULLERUD J.-I.(NUIM)

**PA-07** [14:45-15:15]**Detector Performances and Upgrade R and D**

KWON Youngil(Yonsei Univ. (For the ALICE collaboration))

**PA-08** [15:15-15:45]**QCD and New Strong Dynamics at the LHC / 홍덕기**(부산대)

**[PA3] Pioneering Symposium: Probing the Origin of Matter at LHC**

2010년 10월 21일 목요일 16:00-18:00

장소: 별개미취

좌장: 박성근 고려대

**PA-09** [16:00-16:30]

**LHC accelerator status and plans / VOSS Rudiger**

**PA-10** [16:30-17:00]

**Recent Physics Results from the CMS Experiment**

TONELLI Guido(University of Pisa, Italy, for the CMS Collaboration)

**PA-11** [17:00-17:30]

**First physics from the ALICE experiment at the LHC**

SCHUKRAFT Juergen(ALICE Collaboration Spokesperson, CERN)

**PA-12** [17:30-18:00]

**Anticipating New Physics at the LHC**

CHOI Kiwoon(KAIST, Department of Physics)

**[PB1] Pioneering Symposium: New Researches Using J-PARC**

2010년 10월 20일 수요일 13:00-15:05

장소: 토파즈

좌장: K. K. Joo

[13:00-13:05]

**Opening Remark 1 / Prof. Y.B. Lee, President of KPS**

[13:05-13:10]

**Opening Remark 2 / Prof. D.P. Min, Chairman of Korea Research Council of Fundamental Science & Technology**

**PB-01** [13:10-13:30]

**Overview of Center for Korean J-PARC Users**

PARK Je-Geun(Seoul National University, Department of Physics & Astronomy)

**PB-02** [13:30-14:00]

**Overview and the Status of J-PARC / NAGAMIYA Shoji(Director, J-PARC Center, KEK & JAEA (Japan Proton Accelerator Research Complex))**

**PB-03** [14:00-14:15]

**Neutron Scattering Science in Korea / LEE Chang-Hee(Korea Atomic Energy Research Institute)**

**PB-04** [14:15-14:40]

**New Opportunities of Neutron Sciences Provided by MLF, J-PARC**

NAKAJIMA Kenji(Neutron Science Section, MLF Division, J-PARC Center)

**PB-05** [14:40-15:05]

**Muon Spin Rotation as a Probe of Matter** / KADONO Ryosuke(Muon Science Laboratory, Institute for Materials Structure Science, High Energy Accelerator Research Organization (KEK))

**[PB2] Pioneering Symposium: New Researches Using J-PARC**

2010년 10월 20일 수요일 17:30-19:05

장소: 토파즈

좌장: Je-Geun Park

**PB-06** [17:30-17:45]

**Status of Proton Accelerator Development** / KIM Kye-Ryung(Korea Atomic Energy Research Institute), CHO Yong-Sub, KIM Jun-Yeon, PARK Jae-Won, KIM Kui-Young(Korea Atomic Energy Research Institute)

**PB-07** [17:45-18:10]

**Status of the Hadron Experimental Hall of J-PARC** / TANAKA Kazuhiro(Hadron Beam Channel Group and Hadron Facility Construction Team Institute of Particle and Nuclear Studies (IPNS), High Energy Accelerator Research Organization (KEK), and Particle and Nuclear Physics Division, J-PARC Center)

**PB-08** [18:10-18:25]

**New Opportunities for Hadron Physics at J-PARC** / CHOI Seonho (Seoul National University)

**PB-09** [18:25-18:50]

**Status of T2K Experiment** / ISHIDA Taku(Particle and Nuclear Physics Division, J-PARC Center)

**PB-10** [18:50-19:05]

**Neutrino Physics in Korea** / KIM Soo-Bong(Seoul National University, Department of Physics and Astronomy)

**[PC1] Pioneering Symposium: Novel Superconducting Phenomena**

2010년 10월 21일 목요일 09:00-10:20

장소: 토파즈

좌장: KWON Y. S. (SKKU)

**PC-01(초)** [09:10-09:30]

**Interpretation of the quasiparticle interference and the nematicity order parameter in cuprate superconductor measured with STM** LEE Jhinhwan(KAIST)

**PC-02(초)** [09:30-10:00]

**Spectroscopic-imaging STM studies on unconventional superconductors** / HANAGURI Tetsuo(Magnetic Materials Laboratory, RIKEN)

PC-03(초) [10:00-10:20]

**Investigation of local current limiting defects of  $\text{SmBa}_2\text{Cu}_3\text{O}_{7-y}$  coated conductors by laser scanning microscopy** / KIM Gracia, JO William(Department of Physics, Ewha Womans University, Seoul, Korea), MATSEKH Arkadiy, INOUE Masayoshi, KISS Takanobu(Department of Electrical Engineering, Kyushu University, Fukuoka, Japan), HA Hong-Soo, OH Sang-Soo(Korea Electrotechnology Research Institute, Changwon, Korea)

**[PC2] Pioneering Symposium: Novel Superconducting Phenomena**

2010년 10월 21일 목요일 10:40-12:00

장소: 토파즈

좌장: KIM C.(Yonsei U)

PC-04(초) [10:40-11:00]

**Comparative Study of Impurity Scattering on Al- and C-doped  $\text{MgB}_2$  Single Crystals** / KANG Byeongwon(Department of Physics, Chungbuk National University), PARK Min-Seok, LEE Hyun-Sook(Department of Physics, POSTECH), LEE Sung-Ik, JUNG Myung Hwa(Department of Physics, Sogang University)

PC-05(초) [11:00-11:20]

**Dynamic Nature of the Peak Effect in the Isotropic Vortex Matter of  $\text{MgCNi}_3$  Single Crystals** / JANG Dongjin(Extreme Physical Science Laboratory, Department of Physics, Sungkyunkwan University), LEE Hyun-sook(Department of Physics, Pohang University of Science and Technology), LEE H-G.(National Creative Research Initiative Center for Superconductivity and Department of Physics, Sogang University), CHO M-H.(Department of Physics, Pohang University of Science and Technology), LEE Sung-Ik(National Creative Research Initiative Center for Superconductivity and Department of Physics, Sogang University)

PC-06(초) [11:20-11:40]

**Fermi-Surface Nesting, Magnetic Ordering, and Superconductivity in Fe-based Superconductors** / CHOI hyoung joon (Department of Physics and IPAP, Yonsei University)

PC-07(초) [11:40-12:00]

**The Electron-boson Spectra of Underdoped Bi-2212 and Y-123**  
황정식(부산대)

**[PC3] Pioneering Symposium: Novel Superconducting Phenomena**

2010년 10월 21일 목요일 14:00-15:10

장소: 토파즈

좌장: **BANG Y.K.**(Chonnam U)

**PC-08(초)** [14:00-14:20]

**Hidden Abrikosov lattice in chiral magnet** / HAN Jung Hoon  
(Department of Physics, Sungkyunkwan university, Suwon 440-746, Republic of Korea)

**PC-09(초)** [14:20-14:50]

**Correlation between magnetism and superconductivity in uranium-based heavy fermion compounds** / SATO Noriaki K., DEGUCHI Kazuhiko, KABEYA Noriyuki, OSAKI Eisuke, TAMURA nobuyuki(Department of Physics, Nagoya University, Nagoya, Japan)

**PC-10(초)** [14:50-15:10]

**Josephson effect in graphene-based proximity junction**  
CHOI Jae-Hyun, JEONG Dongchan, DOH Yong-Joo, LEE Gil-Ho, JO Sanghyun  
(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea), LEE Jeong-O(Nanomaterials Team, Advanced Materials Division, Korea Research Institute of Chemical Technology, Daejeon 305-343, Korea), LEE Hu-Jong(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea)

**[PC4] Pioneering Symposium: Novel Superconducting Phenomena**

2010년 10월 21일 목요일 15:30-16:50

장소: 토파즈

좌장: **PARK T.**(SKKU)

**PC-11(초)** [15:30-15:50]

**Mechanism of giant magnetic flux jumps in the single crystals of  $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$**  / CHOI Ki-Young, JUNG Myung-Hwa, PARK Gangseo  
(Department of Physics, Sogang University, Seoul 121-742, Republic of Korea)

**PC-12(초)** [15:50-16:10]

**Upper Critical Fields in Several Fe-based High- $T_c$  Superconductors** / 김승현, 이범성, 김재욱(서울대), 최은상(플로리다 주립대학, 국립 고자기장 연구소), BALAKIREV Fedor(로스알라모스 국립 연구소, 국립 고자기장 연구소), 최기영(서강대), 엄만진(포항공대), NOHARA Minoru(오카야마대), TAKAGI Hidenori(동경대), 방윤규(전남대), 김준성(포항공대), 김기훈(서울대)

**PC-13(초)** [16:10-16:30]

**Growth of hole-doped  $\text{BaFe}_2\text{As}_2$  superconducting thin films with a transition temperature of 40 K**  
KANG, Won Nam, LEE, Nam Hoon, JUNG, Soon-Gil(Sungkyunkwan

University), KIM, Dong Ho(Yeungnam university)

PC-14(초) [16:30-16:50]

**The anomalous magnetotransport properties of isovalent Ru-substituted BaFe<sub>2</sub>As<sub>2</sub>** / KIM Jun Sung, EOM M. J., NA S. W.(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea), KREMER R. K.(Max-Planck-Institut für Festkörperforschung, Heisenbergstraße 1, D-70569 Stuttgart, Germany)

**[PD1] Pioneering Symposium: Use of Radiations in Bio, Medical and Material Sciences**

2010년 10월 21일 목요일 13:45-15:45

장소: 열레지

좌장: 김 종 원 국립암센터

PD-01(초) [13:45-14:15]

**Recent Trend of Nuclear Medicine Imaging** / RHEE Chunghi(ReSEAT Program, Korea Institute of Science and Technology Information)

PD-02(초) [14:15-14:45]

**Research and application of radiation biology with fast heavy ions at RIKEN RI beam factory** / TADASHI KAMBARA(Nishina Center for Accelerator-Based Science, RIKEN Wako 351-0198, Japan)

PD-03(초) [14:45-15:15]

**Uses of the electron tracking Compton camera for biomedical imaging** / TORU Tanimori, SHUNSUKE Kurosawa, SHIGETO Kabuki, HIDETOSHI Kubo(Department of Physics and Astronomy, Kyoto University Kyoto 606-8502, Japan), KIM Dogyun(Department of Physics, Seoul National University, Seoul 151-742, Korea), KIM Jongwon(Department of Biomedical Engineering, National Cancer Center, Gyeonggi 410-769, Korea)

PD-04(초) [15:15-15:45]

**Neutron and X-ray Scattering for Nanoscale Materials Research** / CHOI Sung-Min(Department of Nuclear and Quantum Engineering, KAIST, Daejeon, 305-701, Korea)

**[PD2] Pioneering Symposium: Use of Radiations in Bio, Medical and Material Sciences**

2010년 10월 21일 목요일 16:00-18:00

장소: 열레지

좌장: 김 용 균 한양대

PD-05(초) [16:00-16:30]

**Recent progress on heavy-ion radiotherapy project in Japan** / KOJI Noda(Department of Accelerator and Medical Physics, National Institute of

Radiological Sciences, 4-9-1 Anagawa, Inage-ku, Chiba, Japan)

**PD-06(초)** [16:30-17:00]

**Application of Electron Beam for Material Science (E-beam Users Program at KAERI) / LEE Byung Cheol**(Korea Atomic Energy Research Institute (KAERI), P.O. Box 105, Yusong, Daejeon, Korea)

P

**PD-07(초)** [17:00-17:30]

**Structural Studies of Biomolecules using Radioactive Beams**

**PARK Sung Ha**(Department of Physics, Sungkyunkwan University, Suwon, Gyeonggi 440-746, Korea)

**PD-08(초)** [17:30-18:00]

**Compton imaging for medical and industrial applications**

**LEE Ju Hahn**(Institute of Innovative Functional Imaging, Chung-Ang University, Seoul 156-756, Korea), **CHO Hwa Youn**(Department of Physics, Chung-Ang University, Seoul 156-756, Korea), **SEO Hee**, **JUNG In-II**(Department of Nuclear Engineering, Hanyang University, Seoul 133-791, Korea.), **KIM Su Mi**(Department of Nuclear Medicine and Interdisciplinary Program in Radiation Applied Life Science, Seoul National University, Seoul 110-744, Korea), **CHOI Young-Wan**(School of Electrical and Electronics Engineering, Chung-Ang University, Seoul 156-756, Korea), **KIM Chan Hyeong**(Department of Nuclear Engineering, Hanyang University, Seoul 133-791, Korea), **LEE Jae Sung**(Department of Nuclear Medicine and Interdisciplinary Program in Radiation Applied Life Science, Seoul National University, Seoul 110-744, Korea.), **LEE Chun Sik**(Department of Physics, Chung-Ang University, Seoul 156-756, Korea.)

**[BG1] 입자물리학회 General Session**

2010년 10월 20일 수요일 13:00-15:00

장소: 별개미취 II

좌장: 최수용 고려대

**BG-01(초)** [13:00-13:30]**Observation of a first  $\nu_\tau$  candidate event in the OPERA experiment** / YOON Chun Sil, SONG Jin Sop, PARK In Gon, PARK Byung Do, KIM Ji Hyun(GNU), KIM Sung Hyun(CNU)**BG-02(초)** [13:30-14:00]**Y(5S) Physics at Belle** / LI Jin(Seoul National University)**BG-03** [14:00-14:15]**Determination of mSUGRA and Non-Universal SUGRA Models at the Large Hadron Collider** / OH Youngdo(WCU Collider Physics Research, Kyungpook National University), DUTTA Bhaskar(Texas A&M University), KAMON Teruki(WCU Collider Physics Research/Kyungpook National University, Texas A&M University), KRISLOCK Abram(Texas A&M University), KOLEV Nikolay(University of Regina, Canada)**BG-04** [14:15-14:30]**The Background study for Randall-Sandrum Graviton using CMS data of  $3\text{pb}^{-1}$  Integrated Luminosity** / CHUNG J., KIM G.N., PARK H.K., SON D.(Kyungpook National University)**BG-05\*** [14:30-14:45]**Status of the KIMS Annual Modulation Study** / 최정훈, 김선기, 방형찬, OLSEN S.L., 명성숙, 이명재, 김승천, 이주희, 이상준, 류수, 이재금, 성일수, 김경원(서울대), 김영덕, 이정일, 강운구(세종대), 김홍주, 소중호(경북대), 권영준, 황명진(연세대), 한인식(이화여대), YUE Q., LI J., LI Y.J.(Tsinghua Univ.)**BG-06** [14:45-15:00]**Kinematic cusps: Measuring the missing energy particle at the LHC and ILC** / 송정현(건국대), HAN Tao, KIM Ian-Woo(UW-Madison, USA)**[BG2] 입자물리학회 General Session**

2010년 10월 20일 수요일 17:30-19:30

장소: 별개미취 II

좌장: 천병구 한양대

**BG-07** [17:30-17:45]**Search for lepton-flavor-violating B decays from Belle** / KWON Youngjoon(Yonsei University, Department of Physics), SEON Oksu(Nagoya



BG-08\*[17:45-18:00]

**Measurement of the branching fractions for  $\tau^- \rightarrow K^- K_s \pi^0 \nu_\tau$  and  $\tau^- \rightarrow \pi^- K_s \pi^0 \nu_\tau$  decays at Belle** / 류수, 김선기, 이명재(서울대), 권영준(연세대), OLSEN Stephen(서울대), 천병구(한양대), 원은일(고려대)

BG-09 [18:00-18:15]

**Righ-handed currents in the B meson system**

NAM Soo-hyeon, CHO Kihyeon(KISTI, High Energy Physics Team)

BG-10\* [18:15-18:30]

**Search for doubly charged Higgs bosons in 4muon channel at  $\sqrt{s}=7\text{TeV}$  at CMS experiment** / LEE Jongseok, CHOI Youngil, LEE Sungeun(Sungkyunkwan University, Department of Physics), CHOI Suyong(Korea University, Department of Physics)

BG-11\* [18:30-18:45]

**Geometrical Acceptance of Muons in RPC Pattern Comparator Trigger for in the CMS Experiment** / SEO Eunsung(Korea University)

BG-12\* [18:45-19:00]

**Measurement of the Top Pair Production Cross Section in the Dilepton Decay Channel at CDF** / 문창성, 김수봉, 이재승(서울대)

BG-13\* [19:00-19:15]

**Search for a New Charged Heavy Vector Boson in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96\text{ TeV}$**  / 양유철, 김지은, 김동희, 오영도, 공대정, 칸아딜, 우오즈미 사토르, 케몬 테루키(경북대, WCU Collider Physics Research), 김수봉, 이재승, 문창성, 정지은(서울대, 물리학부), 유인태(성균관대, 물리학과), 주경광(전남대, 물리학과), 김현수(전북대, 물리학과), 전은주(세종대, 물리학과), 조기현(KISTI, 고에너지물리연구팀)

BG-14\* [19:15-19:30]

**Measurement of the Top Quark Electric Charge** / 박성근, 임정구(고려대)

**[BS1] 입자물리학회 Special Session : 한일공동세션**

2010년 10월 21일 목요일 09:00-11:00

장소: 별개미취 II

좌장: 최 성 렬 전북대

BS-01(초) [09:00-09:30]

**Direct Dark Matter Search Activities in Japan**

MORIYAMA Shigetaka(ICRR, University of Tokyo)

**BS-02(초)** [09:30-10:00]

**Dark Matter in Collider Physics** / NOJIRI Mihoko(KEK)

**BS-03(초)** [10:00-10:30]

**Identifying dark matter** / CHUN Eung Jin(KIAS)

**BS-04(초)** [10:30-11:00]

**Status of the KIMS experiment** / KIM Sun Kee(Seoul National University), FOR the KIMS Collaboration

**[LF2] 천체물리학분과회 Focus Session: Observational Challenges in the Universe II(핵, 입자, 천체 공동세션)**

2010년 10월 21일 목요일 11:15-13:15

장소: 루비

좌장: 이 현 규 한양대

**LF-03** [11:15-11:45]

**감마선폭발 초기관측을 위한 UFFO(Ultra-Fast Flash Observatory) 프로젝트의 현황** / 박일홍(이화여대)

**LF-04** [11:45-12:15]

**AMS Experiment at the International Space Station** / 손동철(for High Energy Physics, Kyungpook National University)

**LF-05** [12:15-12:45]

**Results from the Telescope Array Experiment** / 천병구(한양대)

**LF-06** [12:45-13:15]

**KoRIA를 이용한 천체핵물리 : Nuclear Astrophysics at KoRIA**  
한인식(이화여대)

**[BG3] 입자물리학분과회 General Session**

2010년 10월 22일 금요일 09:00-11:00

장소: 별개미취 II

좌장: 이 필 진 고등과학원

**BG-15(초)** [09:00-09:30]

**Liouville gravity and matrix model** / RIM Chaiho(서강대 물리학과), ISHIKI Goro(서강대 양자공간연구센터)

**BG-16(초)** [09:30-10:00]

**Holographic QCD In Three Dimensions** / 홍덕기(부산대), 이호웅(SUNY Stony Brook)

**BG-17\*** [10:00-10:15]

**Probing the smearing effect by a pointlike graviton in the plane-**

**wave matrix model** / LEE Bum-Hoon, NAM Siyoung(Dept. of Physics and Center for Quantum Spacetime (CQeST), Sogang University), SHIN Hyeonjoon (Center for Quantum Spacetime(CQeST), Sogang University)

**BG-18\*** [10:15-10:30]

**Integrability in AdS/CFT : S-matrix, Algebraic curve and Finite size effects** / KIM Minkyoo(Sogang University), AHN Changrim(Ewha Woman University), LEE Bum-Hoon(Sogang University)

B

**BG-19\*** [10:30-10:45]

**Photo-emission rate of sQGP at finite density** / 조광현, 신상진(한양대)

**BG-20** [10:45-11:00]

**Membranes and Seven Dimensional Inhomogeneous Sasaki-Einstein Manifolds?** / 김효중, 김낙우, 이정훈, 김선창(경희대)

**[BG4] 입자물리학분과회 General Session**

2010년 10월 22일 금요일 09:00-11:00

장소: 별개미취 |

좌장: 주 경 광 전남대

**BG-21** [09:00-09:15]

**Construction Status of the RENO Experiment** / 김재률, 김병찬, 김성현, 여인성, 임인택, 장지승, 정인석, 최을임(전남대), 김우영, 사무엘 스테파난, 서준석, 오영도(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대), 강보라, 김동구, 김수봉, 박정식, 신진욱, 양병수, 이재승, 최선희, 최원국(서울대), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), 김현수(전북대), N. Danilov, YU Krylov, G. Novikova, E. Yanovich(INR/IPCE)

**BG-22** [09:15-09:30]

**RENO PMT Test** / 장지승, 김병찬, 김성현, 김재률, 주경광, 여인성, 임인택, 정인석, 최을임(전남대), 김우영, 도호석, 사무엘 스테파난, 오영도, 세르게이 체보타료프(경북대), 박인곤, 박명렬(경상대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대), 강보라, 김동구, 김수봉, 박정식, 신진욱, 양병수, 이재승, 최선희, 최원국(서울대), 백승록, 유인태, 최영일, 김현수(성균관대), N. Danilov, YU Krylov, G. Novikova, E. Yanovich(INR/IPCE)

**BG-23** [09:30-09:45]

**Gd Loaded Liquid Scintillator Production and Handling System**

이재승, 강보라, 김동구, 김수봉, 박정식, 신진욱, 양병수, 최선희, 최원국(서울대), 김우영, 도호석, 사무엘 스테파난, 오영도, 세르게이 체보타료프(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), 김병찬, 김성현, 김재률, 주경광, 여인성, 임인택, 장지승, 정인석, 최을임(전남대), 김현수(전북대), N Danilov, YU Krylov, G Novikova, E Yanoivch(INR/IPCE)

**BG-24** [09:45-10:00]

**RENO Data Reconstruction and Analysis System** / 김현수(전북대), 강보라, 김동구, 김수봉, 박정식, 신진욱, 양병수, 이재승, 최선호, 최원국(서울대), 김우영, 도호석, 스테파난 사무엘, 체보타료프 세르게이, 오영도(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), 김병찬, 김성현, 김재률, 주경광, 여인성, 임인택, 장지승, 정인석, 최을임(전남대), DANILOV N, KRYLOV Yu, NOVIKOVA G, YANOVICHE(INR/IPCE)

**BG-25**[10:00-10:15]

**RENO PMT Installation** / 주경광(전남대, 물리학과), 김우영, 도호석, 스테파난 사무엘, 오영도, 보타료프 세르게이(경북대, 물리학과), 박인곤(경상대, 물리학과), 박명렬(동신대, 물리학과), 안정근(부산대, 물리학과), 박강순(서경대), 장한일(서강정보대학), 강보라, 김수봉, 박정식, 신진욱, 양병수, 이재승, 최선호, 최원국(서울대, 물리학과), 백승록, 유인태, 최영일(성균관대, 물리학과), 강운구, 김영덕, 마경주, 전은주(세종대, 물리학과), 김성현, 김병찬, 김재률, 여인성, 임인택, 장지승, 정인석, 최을임(전남대, 물리학과), 김현수(전북대, 물리학과), DANILOV N., KRYLOV YU, NOVIKOVA G., YANOVICHE.(INR/IPCE)

**BG-26** [10:15-10:30]

**RENO Slow Control and Monitor System** / 박명렬(동신대), 김우영, 도호석, 스테파난 사무엘, 오영도, 체보타료프 세르게이(경북대), 박인곤(경상대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대학), 강보라, 김동구, 김수봉, 박정식, 신진욱, 양병수, 이재승, 최선호, 최원국(서울대), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), 김병찬, 김성현, 김재률, 주경광, 여인성, 임인택, 장지승, 정인석, 최을임(전남대), 김현수(전북대), DANILOV N., KRYLOV YU, NOVIKOVA G., YANOVICHE.(INR/IPCE)

**BG-27** [10:30-10:45]

**The solar neutrino result of SK-III** / 양병수, 김수봉(서울대), 최영일(성균관대), 김재률, 임인택, 장지승, 조성훈(전남대)

**BG-28** [10:45-11:00]

**Current Status of E14 Experiment at J-PARC** / 정명신(한양대), 김용주, 우종관, 고재우(제주대), 임계엽(KEK), 김은주(전북대), 안정근(부산대), 이효상(서울대)

**[BG5] 입자물리학회분과회 General Session**

2010년 10월 22일 금요일 11:15-12:45

장소: 별개미취 II

좌장: 임채호 서강대

**BG-29** [11:15-11:30]

**Asymmetric dense matter in holographic QCD** / SEO YUNSEOK (Center for Quantum Spacetime), KIM YOUNGMAN, SHIN IKJAE(APCTP), SINSANG-JIN(Hanyang University)

BG-30 [11:30-11:45]

**Self-bound Dense Objects in Holographic QCD** / KO Yumi(Asia Pacific Center for Theoretical Physics), KIM Kyung Kiu(Institute for the Early Universe), KIM Youngman(Asia Pacific Center for Theoretical Physics)

BG-31 [11:45-12:00]

**Constraints on RG Flows in Horava-Lifshitz Gravity by Classical Solutions** / KIM Taekyung, KIM Yoonbai(Sungkyunkwan University)

BG-32 [12:00-12:15]

**Universe or Multiverse ?** / YANG Hyun Seok(Institute for the Early Universe, Ewha Womans University), LEE Jungjai(Department of Physics, Daejin University)

BG-33 [12:15-12:30]

**Area and entropy spectra of black holes from quasinormal modes** / 권용준, 남순건(경희대)

BG-34 [12:30-12:45]

**Landau problem for bilayer graphene in constant magnetic field of arbitrary orientation** / HYUN Young-Hwan, KIM Yoonbai, SOCHICHIU Corneliu, CHOI Min-Young(Sungkyunkwan University)

**[BG6] 입자물리학분과회 General Session**

2010년 10월 22일 금요일 11:15-13:00

장소: 별개미취 |

좌장: 남 지 우 이화여대

BG-35 [11:15-11:30]

**Neutrinoless double beta decay of Mo-92** / 이정일(세종대), 김선기, 방형찬, OLSEN S.L., 명성숙, 이명재, 김승천, 최정훈, 이주희, 이상준, 류 수, 이재금, 성일수, 김경원(서울대), 김영덕, 강운구(세종대), 김홍주, 소중호(경북대), 권영준, 황명진(연세대), 한인식(이화여대), YUE q., LI j., LI y.j.(Tsinghua Univ.)

BG-36\* [11:30-11:45]

**Scintillation properties of  $^{40}\text{Ca}^{100}\text{MoO}_4$  crystals for neutrinoless Double Beta Decay search at Y2L** / SO J.H., KIM H.J.(Kyungpook National University), KIM S.K., MYUNG S.S., CHOI J.H., LEE M.J., LEE S.J., LI J., LI X., LEE J.I., OLSEN S., BHANG H., CHOI S., TANIDA K., SATO Y.(Seoul National University), KIM Y.D., KANG W.G.(Sejong University), KIM Y.H., LEE M.K., PARK H., LEE J.M., LEE K.B.(KRISS)

BG-37 [11:45-12:00]

**Current status of AMS-02 and the remote center in Korea** / MAN WOO LEE, KYUNG SOOK KIM, GUINYUN KIM, DONGCHUL SON(Center for High Energy Physics, Kyungpook National University)

**BG-38** [12:00-12:15]

**Development of the Large Silicon Charge Detector for the CREAM experiment** / 박일홍, 이직, 남지우, 이혜영, 나고운, 임선인(이화여대)

**BG-39\*** [12:15-12:30]

**GPU Performnace of Conjugate Gradient Solver with Staggered Fermions** / KIM Hyung-Jin(서울대)

**BG-40** [12:30-12:45]

**The advanced data searching system with AMGA at the Belle II experiment** / KIM JungHyun, CHO Kihyun, AHN Sunil(KISTI)

**BG-41** [12:45-13:00]

**B-Standard Ntuple in CDF experiments** / 김영진, 조기현, 배태길(KISTI 고에너지 물리연구팀), 김동희, 오영도, 공대정, 김지은, 카몬 테루키, 우오즈미 사토루, 양유철, 장성현, 칸 아딜, 손태진(경북대 물리 및 에너지학부), 김수봉, 이재승, 문창성, 정지은(서울대 물리학부), 유인테, 임규빈(성균관대 물리학과), 주경광(전남대 물리학부), 김현수(전북대 물리학과), 전은주(세종대 물리학과)

**[CG1] 원자핵물리학분과회 General Session: Hadrons and Interactions**

2010년 10월 20일 수요일 13:00-15:30

장소: 얼레지

좌장: 박 병 윤 충남대

**CG-01(초) [13:00-13:30]****Chiral-magnetic effect in heavy-ion collision**

남승일(기초학문연구소, 한국항공대)

**CG-02 [13:30-13:45]****Isospin breaking effects in nuclear matter**

YAKHSHIEV Ulugbek(Inha University, physics)

**CG-03 [13:45-14:00]****The HypHI Phase 0 and Phase 0.5 Experiments at GSI / KIM Eunhee**(Seoul National University, Department of Physics and Astronomy, and GSI),  
HYPHI collaboration(GSI)**CG-04 [14:00-14:15]****The role of high spin resonances in Cascade photoproduction**

오용석(경북대)

**CG-05 [14:15-14:30]****Cosmic ray measurements of the triplet prototype counters with****fine mesh PMTs for CTOF detector at JLab CLAS12 / NI Andrey,**  
KUZNETSOV Viacheslav, KIM wooyoung, CHEBOTARYOV sergey, DHO ho  
seog, KIM Andrey, MILMAN Evgeniy(경북대)**CG-06 [14:30-14:45]****The pairing and symmetry energy in dense matter**

류충열, 천명기(숭실대학교, 물리학과)

**CG-07\* [14:45-15:00]****QCD Sum Rule approaches with Diquark Effective Lagrangian**KIM Kyung-il, LEE Su Houn(Instute of Physics and Applied Physics, Yonsei  
Univ.), JIDO Daisuke(Yukawa Institute for Theoretical Physics, Kyoto Univ.)**CG-08\* [15:00-15:15]** **$K^* \Lambda(1116)$  photoproduction in an effective Lagrangian  
approach / KIM SangHo(Inha university, physics)**

CG-09 [15:15-15:30]

**A Study of Microscopic Structure of Carbon Isotopes by the Deformed QRPA** / HA Eunja, CHEOUN Myung-KI(Soongsil Univ.), KIM Kyungsik(Hankuk Aviation University)

**[CG2] 원자핵물리학과회 General Session: Nuclear Reactions and Instruments**

2010년 10월 20일 수요일 17:30-20:30

장소: 열레지

좌장: 박 세 환 원자력연 / 김 귀 년 경북대

CG-10 [17:30-17:45]

**KIGAM에서의 고속단색중성자 표준장 구축 활동**

김기동, 우형주, 박중현, 최한우, 김준곤, 홍완, 박규준(한국지질자원연구원)

CG-11 [17:45-18:00]

**Np-237에 대한 중성자 입사 핵반응 평가**

김형일, 문명환, 김도현, 길충섭, 이영욱(한국원자력연구원)

CG-12 [18:00-18:15]

**The Current Status of Development of 28 GHz ECR Ion Source**

이병섭, 원미숙, 박진용, 옥정우, 김병철, 김동준, 윤장희, 배종성, 김종필(한국기초과학지원연구원 부산센터)

CG-13 [18:15-18:30]

**Measurement of Isomeric Yield Ratio for the  $^{nat}\text{Fe}(\gamma\text{xn}1\text{p})^{52\text{m,g}}\text{Mn}$**

**Reaction Induced by Bremsstrahlung** / YANG Sung-Chul(Department of Physics, Kyungpook National University+Nuclear Data Evaluation Lab., Korea Atomic Energy Research Institute), KIM Kwang Soo, KIM Kyung-Sook, LEE Manwoo, KIM Guinyun(Department of Physics, Kyungpook National University), LEE Young-Ouk(Nuclear Data Evaluation Lab., Korea Atomic Energy Research Institute)

CG-14 [18:30-18:45]

**Activation cross-sections of proton induced nuclear reactions on**

**iron and Nickel** / KIM Kwangsoo(Department of Physics, Kyungpook National University), KHANDAKER M.U.(Nuclear Data Evaluation Laboratory, Korea Atomic Energy Research Institute), KIM kyung-sook, LEE Manwoo(Department of Physics, Kyungpook National University), CHO Y-S, LEE Y-O(Nuclear Data Evaluation Laboratory, Korea Atomic Energy Research Institute), KIM Guinyun(Department of Physics, Kyungpook National University)

CG-15\*[19:00-19:15]

**Development of a Bunch Length Detector** / KIM Joon Yeon, BHANG

Hyoung Chan, KIM Do Gyun(Department of Physics and Astronomy, Seoul National University), KANG Yoon Won(Oak Ridge National Laboratory), KIM



Jong Wo(National Cancer Center)

CG-16 [19:15-19:30]

**Development of the Proton Beam Detector for Therapy using Scintillation Fiber Array** / 이한범, 김충, 심현하, 장진희, 주은아, 이경세, 심광숙, 홍병식(고려대)

CG-17\* [19:30-19:45]

**Forward RPC upgrade at PHENIX** / 김충, 김병일, 이경세, 이광복, 박성근, 심광숙, 홍병식(고려대), 김용균, 박병현, 강정수(한양대), PHENIX Forward Upgrade Group(Brookhaven National Laboratory)

CG-18 [19:45-20:00]

**Low energy calibration sources for a large liquid xenon detector**  
LEE J.S.(Korea Research Institute of Standards and Science), KIM Y.D.(Sejong University), KIM Y.H., LEE K.B., LEE M.K.(Korea Research Institute of Standards and Science), SONG J.H.(Kongju National University)

CG-19 [20:00-20:15]

**Study on the Injection System for Cyclotron Mass Spectrometry**  
KIM Do Gyun, KIM Joon Yeon, BHANG Hyoungchan(서울대), KIM Jong-Won(국립암센터), YUN Chong Cheoul(중앙대)

CG-20\* [20:15-20:30]

**Development of a precision radon activity measurement system**  
KIM Byoungchul, AHN Jung Keun(Pusan National University, Department of Physics), LEE Jong Man, LEE Kyoung Beom, LEE Min Kie, OH Pil Jae, PARK Tae Soon(KRISS, Ionizing Radiation Group)

**[CS1] 원자핵물리학과회 Special Session: Heavy Ion Accelerator: KoRIA**

2010년 10월 21일 목요일 09:00-12:00

장소: 얼레지

좌장: 이창환 부산대 / 최선호 서울대

CS-01 [09:00-9:15]

**Overview of the Conceptual Design Project of KoRIA** / HONG Seung-Woo(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea)

CS-02 [09:15-9:30]

**Overview of Scientific Research Aims at KoRIA** / KIM Yong-Kyun(Department of nuclear engineering, Hanyang University, Seoul 133-791, Korea), RYU Min Sang(Basic Atomic Energy Research Institute, Hanyang University, Seoul 133-791, Korea)

CS-03 [09:30-9:45]

**Conceptual Design of Heavy Ion Linac for Rare Isotope Beam**

KO Seung - Kook(Korea Accelerators & Plasma Research Association, PTL)

CS-04 [09:45-10:00]

**Design study of ISOL Facilities for KoRIA / CHAI Jong-Seo**(Department of Energy Science, Sungkyunkwan University, Suwon 440-746, Korea),

GANG Byung-Hui(Department of Nuclear Engineering, Hanyang University, Seoul 133-791, Korea), CHO Yong-Sub, OH Byung-Hoon(Korea Atomic Energy Research Institute), PARK Tae-sun(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea), HA Jang-Ho(Korea Atomic Energy Research Institute), PARK Gi-Hyun(Pohang Accelerator Laboratory), KIM Dong-Rak(Korea Basic Science Institute)

CS-05 [10:00-10:15]

**Concept of ISOL Target/Ion Source and Expected Yields of RIB**

KANG. B. H.(Basic Atomic Energy Research Institute, Hanyang University, Seoul 133-791, Korea), JANG, D. Y.(Department of nuclear engineering, Hanyang University, Seoul 133-791, Korea), RYU, M. S.(Basic Atomic Energy Research Institute, Hanyang University, Seoul 133-791, Korea), KIM. Y. K.(Department of nuclear engineering, Hanyang University, Seoul 133-791, Korea)

CS-06 [10:30-10:45]

**KRS : KoRIA Recoil Spectrometer / KWON Young Kwan**(Department of Physics, Chung-Ang University, Seoul 156-756, Korea), MOON Chang Bum (Department of Display, Hoseo University, Chungnam 336-795, Korea.), HAHN In sik(Department of Science Education, Ewha Woman's University, Seoul 120-750, Korea), YUN Chong Cheoul, MOON Jun Young, LEE Ju Hahn(Institute of Innovative Functional Imaging, Chung-Ang University, Seoul 156-756, Korea), KIM A ram(Department of Science Education, Ewha Woman's University, Seoul 120-750, Korea)

CS-07 [10:45-11:00]

**Design of Large-Acceptance Multipurpose Spectrometer (LAMPS)**

**at the KoRIA High-Energy Beam Line /** 안정근(부산대), 이경세, 홍병식,

심광숙(고려대), 김은주(전북대), 최봉혁, 황상훈, 김성준, 박진용, 유선영(부산대),

심현하, 주은아, 장진희(고려대)

CS-08 [11:00-11:15]

**Medical and biological application of heavy ion beam / KIM In Gyu**(Department of Radiation Biology, Environmental Radiation Research Group, Korea Atomic Energy Research Institute, P.O. Box 105, Yusong Daejeon 305-600, Korea.), PARK Woo Yoon(Department of Radiation Oncology, Chungbuk National University of College of Medicine, Cheongju, 361-763, Korea)

CS-09 [11:15-11:30]

**New probes for the Solid State Physics: Koria Material Science Facilities** / PARK Se-Hwan(Korea Atomic Energy Research Institute, Daejeon 305-353, Korea), KIM Joonkon(Korea Institute for Geoscience and Material Resources, Daejeon 305-350, Korea), HAN Jae-Min(Korea Atomic Energy Research Institute, Daejeon 305-353, Korea)

CS-10 [11:30-11:45]

**Atomic physics for RI research** / YU Dai-Hyuk(Division of Convergence Technology, Korea Research Institute of Standards and Science, Daejeon 305-340, Korea), PARK Young-Ho, KANG Hoon Soo(Photonics Research Division, Advanced Photonics Research Institute, Gwangju 500-712, Korea)

CS-11 [11:45-12:00]

**Nuclear Data Measurements at KoRIA** / LEE Young-Ouk, SONG Tae-Yung, YOO Jaegwon(Korea Atomic Energy Research Institute, Yuseong, Daejeon 305-353, Korea), KIM Kidong(Korea Institute of Geoscience and Mineral Resources, Yuseong, Daejeon 305-350)

**[LF2] 천체물리학회 Focus Session: Observational Challenges in the Universe II(핵, 입자, 천체 공동세션)**

2010년 10월 21일 목요일 11:15-13:15

장소: 루비

좌장: 이 현 규 한양대

LF-03 [11:15-11:45]

**감마선폭발 초기관측을 위한 UFFO(Ultra-Fast Flash Observatory) 프로젝트의 현황** / 박일홍(이화여대)

LF-04 [11:45-12:15]

**AMS Experiment at the International Space Station** / 손동철(for High Energy Physics, Kyungpook National University)

LF-05 [12:15-12:45]

**Results from the Telescope Array Experiment** / 천병구(한양대)

LF-06 [12:45-13:15]

**KoRIA를 이용한 천체핵물리 : Nuclear Astrophysics at KoRIA**  
한인식(이화여대)

**[CG3] 원자핵물리학회 General Session: Nuclear Physics with RIB**

2010년 10월 21일 목요일 12:15-13:15

장소: 얼레지

좌장: 이 영 욱 원자력연

CG-21(초) [12:15-12:45]

**CRIS: Collinear Resonance Ionization Spectroscopy, a novel**

technique for nuclear physics research / FLANAGAN K.

CG-22 [12:45-13:00]

**Two-component exciton model를 활용한 니켈 동위원소에 대한 전평형 반응 연구** / 문명환, 이영욱, 김형일(한국원자력연구원)

CG-23\* [13:00-13:15]

**Design and optimization of the neutron calorimeter for KoRIA**  
장진희, 주은아, 심현하, 이경세, 홍병식(고려대)

**원자핵물리학과 총회**

2010년 10월 21일 목요일 18:00-18:15

장소: 열레지

**[CS2] 원자핵물리학과회 Special Session: Korea-Japan Exchange Session**

2010년 10월 22일 금요일 09:00-11:00

장소: 열레지

좌장: 안 정 근 부산대

CS-12(초) [09:00-09:20]

**Measurement of  $^4\text{He}(^{12}\text{C}, ^{16}\text{O})\text{g}$  near Stellar Energy by Inverse Kinematics** / FUJITA Kunihiro, SAGARA K., TERANISHI T., MATSUDA S., OBA N., TANIGUCHI M., YAMAGUCHI H.(Department of Physics, Kyushu University)

CS-13(초) [09:20-09:40]

**Precision Spectroscopy of Kaonic Helium-3 X-rays at J-PARC**  
HASHIMOTO Tadashi(The University of Tokyo)

CS-14(초) [09:40-10:00]

**Influence of nucleus potential on kaon and antikaon pairs decayed from short-lived particles** / YOON CHOONGJAE(RCNP, Osaka University)

CS-15(초) [10:00-10:20]

**Tensor charges and form factors of SU(3) baryons in the self-consistent SU(3) chiral quark-soliton model** / 김현철(인하대), LEDWIG Tim(Institute for Nuclear Physics, Mainz University), SILVA Antonio(Faculdade de Engenharia, Universidade do Porto)

CS-16(초) [10:20-10:40]

**Negative Differential Resistivity in Quark-Gluon Plasma**  
NAKAMURA Shin(Kyoto University, Department of Physics)

CS-17(초) [10:40-11:00]

**Electromagnetic mass differences of SU(3) baryons within a**

**chiral soliton model / 양길석, 김현철(인하대), POLYAKOV Maxim(독일 Ruhr-Universität Bochum)**

**[CG4] 원자핵물리학과회 General Session: Hadrons and RHIC**

2010년 10월 22일 금요일 11:15-13:15

장소: 열레지

좌장: 이수형 연세대

**CG-24(초) [11:15-11:45]**

**Hadronic Physics in Heavy Ion Collision / 조성태(Institute of Physics and Applied Physics, Yonsei University, Korea), FURUMOTO Takenori(Yukawa Institute for Theoretical Physics, Kyoto University, Japan), HYODO Tetsuo(Department of Physics, Tokyo Institute of Technology, Japan), JIDO Daisuke(Yukawa Institute for Theoretical Physics, Kyoto University, Japan), KO Che Ming(Cyclotron Institute and Department of Physics and Astronomy, Texas A&M University, U.S.A), LEE Su Hwang(Institute of Physics and Applied Physics, Yonsei University, Korea), NIELSEN Marina(Instituto de Física, Universidade de São Paulo, Brazil), OHNISHI Akira(Yukawa Institute for Theoretical Physics, Kyoto University, Japan), SEKIYAMA Takayasu(Department of Physics, Graduate School of Science, Kyoto University, Japan), YASUI Shigehiro(Institute of Particle and Nuclear Studies, High Energy Accelerator Research Organization (KEK), Ibaraki, Japan), YAZAKI Koichi(Hashimoto Mathematical Physics Lab., Nishina Center, RIKEN, Japan)**

**CG-25(초) [11:45-12:15]**

**Effective Lagrangian Approach to Hadronic Physics**

권영신(연세대), 허용구(GSI), 이수형(연세대)

**CG-26 [12:15-12:30]**

**Meson photoproduction with Regge contributions**

남승일, 유병길(기초학문연구소), KAO Chung-Wen(CYCU (Taiwan))

**CG-27\* [12:30-12:45]**

**Preparation of the first heavy-ion run in the CMS at LHC**

JO Mihee, HONG Byungsik, KIM Hyun Chul, KIM Ji Hyun, MOON Dong Ho, LEE Kyung Sei, PARK Seungkeun, SIM Kwang-Souk(Korea University)

**CG-28\* [12:45-13:00]**

**Readiness of the charged particle Elliptic Flow measurement by the sub-event method at CMS / RYU Geonmo, PARK Inkyu, PARK Chawon, KANG Seogon, PARK Sangnam, CHOI Minkyoo, KIM Hyunyong (University of Seoul)**

**CG-29\* [13:00-13:15]**

**Simulation of homogeneous scintillation detector for neutron measurement in heavy-ion collisions / 주은아, 장진희, 심현하, 이경세, 홍병식(고려대)**

## [DG1] 응집물질물리학과회 General Session: 바이오/유기물

2010년 10월 20일 수요일 13:00-14:00

장소: 휘닉스볼룸

좌장: 윤 완 수 표준원

## DG-01 [13:00-13:15]

**Elastic Properties of Lipid Membranes Interacting with Proteins: a Neutron Spin Echo Study**

LEE Ji-Hwan, LEE Min-Jae, KANG Shin-Hyun, DOE Changwoo(Department of Nuclear and Quantum Engineering, KAIST, Daejeon, 305-701, Republic of Korea), FARAONE Antonio(NIST Center for Neutron Research, Gaithersburg, Maryland 20899, USA), PINCUS Philip A.(Materials Research Laboratory, University of California, Santa Barbara, California 93106, USA), KLINE Steven R.(NIST Center for Neutron Research, Gaithersburg, Maryland 20899, USA), CHOI Sung-Min(Department of Nuclear and Quantum Engineering, KAIST, Daejeon, 305-701, Republic of Korea)

## DG-02 [13:15-13:30]

**Single-molecule Four-color FRET With Application / LEE Jinwoo,**

LEE Sanghwa(Department of Physics and Astronomy, Seoul National University), RAGUNATHAN Kaushik(Center for Biophysics and Computational Biology, Department of Physics, Center for the Physics of Living Cells, University of Illinois at Urbana-Champaign), JOO Chirlmin(School of Biological Sciences, Seoul National University), HA Taekjip(Center for Biophysics and Computational Biology, Department of Physics, Center for the Physics of Living Cells, University of Illinois at Urbana-Champaign, Howard Hughes Medical Institute), HOHNG Sungchul(Department of Physics and Astronomy, Department of Biophysics and Chemical Biology, National Center for Creative Research Initiatives, Seoul National University)

## DG-03\* [13:30-13:45]

**Single-Molecule FRET Reveals Dynamic Bending and Cleavage of a Gate DNA by Human Topoisomerase II  $\alpha$  / LEE Sanghwa, JUNG Seung-Ryoung**

(Seoul National University), DEWEESE Joseph E., BYL Jo Ann, OSHEROFF Neil(Vanderbilt University School of Medicine), HOHNG Sungchul (Seoul National University)

## DG-04\* [13:45-14:00]

**Power law behavior of magnetoresistance in tris(8-hydroxy-quinolino)aluminum-based organic light-emitting diodes**

KANG Hoju, YOON Choon Sup(KAIST)

**[DT1] 응집물질물리학과회 Tutorial Session**

2010년 10월 20일 수요일 17:30-20:30

장소: 에메랄드

좌장: 정 연 옥 표준과학연구원

**DT-01(초)** [17:30-18:30]

**Nuclear Magnetic Resonance in ferromagnetic materials: Study of the structural and magnetic properties of thin films, multi-layers and nano-composites / MENY Christian(IPCMS, France)**

**DT-02(초)** [18:30-20:30]

초보자를 위한 초전도 연구의 거의 모든 지식 / 방윤규(전남대 물리학과)

**[DG2] 응집물질물리학과회 General Session: 자성체**

2010년 10월 21일 목요일 09:00-10:45

장소: 휘닉스볼룸 I

좌장: 김 미 영 아주대

**DG-05** [09:00-09:15]

**Dzyaloshinskii-Moriya interaction revisited for preovskite oxides**  
KIM Beom Hyun, MIN B. I.(포항공대)

**DG-06** [09:15-09:30]

마그네타이트 자성 나노입자의 동적 완화효과에 관한 연구  
윤성현(군산대 물리)

**DG-07\*** [09:30-09:45]

**Mg Vacancy Defect Induced Half Metallic MgO(001) Film**  
KIM Dongyoo, YANG Jeonghwa, HONG Jisang(Department of Physics, Pukyong National University)

**DG-08** [09:45-10:00]

**Planar Hall Effect in micromechanically suspended GaMnAs Hall bar / PARK Yun Daniel, KIM TaiHoon, YANG Chan Uk, JANG Dong Hyun**  
(Seoul National University, department of physics)

**DG-09\*** [10:00-10:15]

**Hall effect of ferromagnetic Fe film grown on GaAs substrates**  
YOO Taehee, KHYM S., KIM Shinhee, CHOI Seonghoon, LEE Sanghoon  
(Physics Department, Korea University), LIU X., FURDYNA J. K.(Physics Department, University of Notre Dame)

**DG-10\*** [10:15-10:30]

**NMR study on the stability of the magnetic ground state in  $MnCr_2O_4$  / 윤동영, 이순철(한국과학기술원 물리학과), 오윤석, 김기훈(서울대)**

DG-11\* [10:30-10:45]

**Raman scattering studies of hexagonal rare earth  $\text{RMnO}_3$  (R = Tb, Dy, Ho, Er) thin films** / NGUYEN Thi Minh Hien, OH Su-Young(Ewha Womans University, Department of Physics), CHEN Xiang-Bai(Konkuk University, Chungju, Department of Applied Physics), LEE D, JANG S.-Y., NOH T.W.(Seoul National University, ReCOE &FPRD, Department of Physics and Astronomy), YANG In-Sang(Ewha Womans University, Department of Physics and Division of Nano-Sciences)

[DG3] 응집물질물리학분과회 General Session: 나노물리 I

2010년 10월 21일 목요일 09:00-11:00

장소: 휘닉스볼룸 II

좌장: 최 병 춘 부경대

DG-12 [09:00-09:15]

**Synthesis of Few Layer Graphene by DC Plasma Enhanced Chemical Vapor Deposition (PE-CVD) on Ni Substrate** / CASTRO Edward Joseph, KIM Jeong Hyuk(Wonkwang University, Division of Microelectronics and Display Technology), HWANG Yong Gyoo, LEE Choong Hun(Wonkwang University, Regional Innovation Center for Next Generation Industrial Radiation Technology, Division of Microelectronics and Display Technology)

DG-13 [09:15-09:30]

**Transfer of Three-dimensional Few-layer Epitaxial Graphene on Patterned 6H-SiC(0001)** / PARK Ji-Hoon, SEO Jung-Tak, LEE Jun-Hae, JUNG Woosung, PARK Chong-Yun, AHN Joung Real(Department of Physics, Sungkyunkwan University)

DG-14 [09:30-09:45]

**Layer Dependent Growth of Pentacene on Epitaxial Graphene** JUNG Woosung, LEE Jun-Hae, KIM Minkook, JEON Cheolho, PARK Chong-Yun, AHN Jong Real(BK21 Physics Research Division, Sungkyunkwan University, Suwon 440-746, Korea)

DG-15\* [09:45-10:00]

**Strain induced graphene quantum dot** / KIM Kyung-Joong, AHN Kang-Hun(Department of physics, Chungnam National University, Daejeon, 305-764, Republic of Korea)

DG-16\* [10:00-10:15]

**Nanopore-Domain Growth Behavior in Self-Organized Porous Anodic Alumina**

CHOI Yong Chan, BU Sang Don(Chonbuk National University, Department of Physics)



DG-17 [10:15-10:30]

**Spin Injection in a Direct-Contact Cobalt-Graphene System**

JO Sanghyun, KI Dong-Keun, JEONG Dongchan, PARK Jae-Hyun, LEE Hu-Jong(POSTECH, Department of Physics)

DG-18 [10:30-10:45]

**Single electron spins manipulation and readout in a double quantum dot including micromagnets / SHIN Yun-Sok(Pohang**

University of Science and Technology, Department of Materials Science and Engineering), BRUNNER Roland(University of Leoben, Department of Applied Physics), TOKURA Yasuhiro(NTT Corporation, NTT Basic Research Laboratories), OBATA Toshiaki(University of Tokyo, Department of Applied Physics), PIORO-LADRIERE Michel(Universite de Sherbrooke, Department de Physique), TARUCHA Seigo(University of Tokyo, Department of Physics)

DG-19 [10:45-11:00]

**Hypersensitive Lifshitz Transition in Bilayer Graphene / SON Young-**

Woo(Korea Institute for Advanced Study), CHOI Seon-Myung(POSTECH), WOO Sungjong(KIAS), JHI Seung-Hoon(POSTECH)

**[DG4] 응집물질물리학회분과회 General Session: 초전도 I**

2010년 10월 21일 목요일 11:15-13:15

장소: 휘닉스볼룸 I

좌장: 강 원 남 성균관대

DG-20\* [11:15-11:30]

**Theoretical study of magnetic ordering in  $\text{FeSe}_x\text{Te}_{1-x}$  / MOON Jisoo,**

MOON Chang-Youn, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University)

DG-21\* [11:30-11:45]

**First-principles Study of Magnetic Crossover and Orbital-dependent Effectiveness of Fermi-surface Nesting in Iron-based Superconductors / OH Hyungju, SHIN Donghan, CHOI Hyoung Joon**

(Department of Physics and IPAP, Yonsei University)

DG-22\* [11:45-12:00]

**First-principles Calculation of Atomic and Electronic Structures of Rare-earth Iron Oxypnictides / SHIN Donghan, OH Hyungju, CHOI Hyoung Joon**

(Department of Physics and IPAP, Yonsei University)

DG-23 [12:00-12:15]

**Electronic Structure Studies of Detwinned  $\text{BaFe}_2\text{As}_2$  by Photoemission / KIM Y.K., OH Hyungju, KIM Chul, SONG D.J., JUNG W.S., B.Y. Kim, CHOI Hyoung Joon, KIM C.(연세대), B.S. Lee, KIM S.H., KIM K.H.(서울대), HONG J.B., KWON Y.S.(성균관대), KOH Y.Y., HAN G.R., KYUNG**

W.S., CHOI H.Y., BOO Y.G.(연세대)

DG-24 [12:15-12:30]

**Pressure Effects on the Superconductivity of  $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$  Thin Film** / PARK Eunsung, WOO Bonghee, LEE Nam Hoon, KANG Won Nam, PARK Tuson(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea)

DG-25 [12:30-12:45]

**Superconductivity and magnetism in  $\text{Eu}_{0.7}\text{Na}_{0.3}\text{Fe}_2\text{As}_{1.4}\text{P}_{0.6}$**

장유란, 민병훈(성균관대), 이규준, 정명화(서강대), 권용성(성균관대)

DG-26 [12:45-13:00]

**Optical properties of iron-based superconductor  $\text{LiFeAs}$  single crystal** / HONG Jong Beom, SONG Yoo Jang(Department of Physics, Sungkyunkwan University, Suwon 440-746, Republic of Korea), IIZUKA Takuya (School of Physical Sciences, The Graduate University for Advanced Studies, Okazaki 444-8585, Japan), KIMURA Shin-ichi(UVSOR Facility, Institute for Molecular Science, Okazaki 444-8585, Japan), KWON Yong Seung(Department of Physics, Sungkyunkwan University, Suwon 440-746, Republic of Korea)

DG-27 [13:00-13:15]

**Small Anisotropy of the Lower Critical Fields and Two-Gap Features in Single Crystal  $\text{LiFeAs}$**  / SONG Yoo Jang, GHIM Jin Soo, YOON Jae Hyun(Department of Physics, Sungkyunkwan University, Suwon 440-746, South Korea), LEE Kyu Joon, JUNG Myung Hwa(Initiative Center for Superconductivity, Department of Physics, Sogang University, Seoul 121-741, South Korea), JI Hyo-Seok, SHIM Ji Hoon(Department of Chemistry, Pohang University of Science and Technology, Pohang 790-784, South Korea), KWON Yong Seung (Department of Physics, Sungkyunkwan University, Suwon 440-746, South Korea)

[DG5] 응집물질물리학분과회 General Session: 나노물리 II

2010년 10월 21일 목요일 11:15-12:45

장소: 휘닉스볼룸 II

좌장: 이 병 찬 인하대

DG-28\* [11:15-11:30]

**Effects of Inter-valley Scattering and Sub-lattice Symmetry Breaking on the Energy Gap and the Effective Mass in Graphene** PARK Joon-Suh, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University)

DG-29\* [11:30-11:45]

**Atomic and electronic properties in graphene on insulating substrates** / GOH Jung Suk, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University)

DG-30\* [11:45-12:00]

**Atomic and electronic structure of hydrogenated graphene and graphene nanoribbons** / CHOE Duk-Hyun, BANG Junhyeok, CHANG Kee Joo(Department of Physics, KAIST)

DG-31\* [12:00-12:15]

**Electronic transport properties through magnetic domain wall junctions in zigzag graphene nanoribbons** / KIM Kyung Yeon, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University)

DG-32 [12:15-12:30]

**Carbon Absorption Induced Nitrogen Bandgap States in Nb and Ti Oxides** / LEE Hosik, OHNO Takahisa(ICNSEE, NIMS, 2-3-2 Sengen, Tsukuba, 305-0047 Japan)

DG-33 [12:30-12:45]

**Field-Induced Recovery of Massless Dirac Fermions in Epitaxial Graphene on 4H-SiC(0001): A First-Principles Study** / LEE Hyungjun (Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea), SON Young-Woo(Korea Institute for Advanced Study, Seoul 130-722, Korea), CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University, Seoul 120-749, Korea)

[DG6] 응집물질물리학회 General Session: 초전도 II & 강상관계

2010년 10월 21일 목요일 13:45-15:45

장소: 휘닉스볼룸 I

좌장: 김 일 원 울산대

DG-34 [13:45-14:00]

**The effects of dynamic bosonic fluctuations in under doped cuprate superconductors** / HONG Seung Hwan, CHOI Han-Yong (Department of Physics, Sungkyunkwan University)

DG-35\* [14:00-14:15]

**Enhancement of quasi particle peak by oxygen reduction process in electron doped cuprates** / 송동준, 박승룡, 김철, 김용관, 최성균, 임춘식, 고윤영, 정원식(연세대), ISHIDA Shigeyuki, UCHIDA shinichiro (Department of physics, University of Tokyo), YOSHIDA Yoshiyuki, EISAKI Hiroshi (National institute of advanced industrial science and technology), 김창영(연세대)

DG-36(초) [14:15-14:45]

**Even-denominator quantum Hall effect and superconductivity**  
박권(고등과학원)

DG-37(초) [14:45-15:15]

**Multiferroicity and the Possible Existence of a New Critical End**

**Point in the Collinear Magnet of  $\text{Sr}_2\text{FeSi}_2\text{O}_7$**  / JANG T.-H., YANG I. K., LEE Y. W. (Department of Physics and Laboratory of Pohang Emergent Materials, Pohang University of Science and Technology, South Korea), LEE J. S., JI S. (Department of Physics, University of Virginia, USA), RULE K., LE M. D. (HMI, Germany), GREEN M. (NCNR, NIST, USA), CHOI E. S., BALICAS L. (National High Magnetic Field Laboratory, Tallahassee, Florida 32310, USA), MOSTOVOY M. (Materials Science Center, University of Groningen, The Netherlands), LEE S.-H. (Department of Physics, University of Virginia, USA), JEONG Y. H. (Department of Physics and Laboratory of Pohang Emergent Materials, Pohang University of Science and Technology, South Korea), CHEONG S.-W. (Department of Physics and Astronomy, Rutgers University, USA)

DG-38 [15:15-15:30]

**Enhanced anisotropic magnetoelectric coupling in  $\text{BiFeO}_3\text{-CoFe}_2\text{O}_4$  and  $\text{BiFeO}_3\text{-NiFe}_2\text{O}_4$  nanostructures** / OH Yoon Seok (CeNSCMR, Department of Physics and Astronomy, Seoul National University), CRANE S., ZHENG H. (Department of Materials Science and Engineering, University of California, Berkeley, USA), CHU Y. H. (Department of Materials Science and Engineering, National Chiao Tung University, Taiwan), RAMESH R. (Department of Materials Science and Engineering, University of California, Berkeley, USA), KIM Kee Hoon (CeNSCMR, Department of Physics and Astronomy, Seoul National University)

DG-39 [15:30-15:45]

**Quantum criticality in multiferroic  $\text{Ba}_2\text{CoGe}_2\text{O}_7$  at high magnetic fields** / KIM Jae Wook, KHIM S. H., S. H. Chun, KIM Kee Hoon (서울대), JO Y., BALICAS L., CHOI E. S. (NHMFL), YI H., CHEONG S.-W. (Rutgers University), HARRISON N., BATISTA C. D. (LANL), HAN Jung Hoon (성균관대)

[DG7] 응집물질물리학분과회 General Session: 나노물리 III

2010년 10월 21일 목요일 13:45-15:45

장소: 휘닉스볼룸 II

좌장: 최 형 준 연세대

DG-40 [13:45-14:00]

**The formation and development of dislocation in graphene : Tight-binding molecular dynamics simulation** / LEE Gun-Do, YOON Euijoon, HWNAG Nong-Moon (Department of Materials Science and Engineering, Seoul National University), WANG Cai-Zhuang, HO Kai-Ming (Department of Physics, Iowa State University)

DG-41\* [14:00-14:15]

**Fano line shape of Raman G band on single layer graphene** / YOON Duhee, WOO Seungwoo (Department of Physics, Sogang University), JEONG Dongchan, LEE Hu-Jong (Department of Physics, Pohang University of Science and Technology), SAITO Riichiro (Department of Physics, Tohoku University), SON Young-Woo (School of Computational Sciences, Korea Institute for Advanced Study), CHEONG Hyeonsik (Department of Physics, Sogang University)

DG-42\* [14:15-14:30]

**Ab initio study of the electronic properties of 1-D chain structures of metal-encapsulated gold nanoclusters and their spin-orbit effect** / PARK Sora, KIM Gunn, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

DG-43\* [14:30-14:45]

**First-principles Study of Surface Electronic Structures of Topological Insulators** / HAN Jinhee, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University)

DG-44 [14:45-15:00]

**Atomic and electronic properties of B and P doped Si/Ge Nanowire Superlattices: First-principles study** / KIM min-kook, CHOI Hyoung Joon(Department of Physics and IPAP, Yonsei University)

DG-45\* [15:00-15:15]

**First principle calculations on the properties of  $\kappa$ -carbide, (Fe, Mn)3AlC** / NOH Ji-young, KIM Hanchul(Department of Physics, Sookmyung Women's University)

DG-46\* [15:15-15:30]

**Electrically Tunable Macroscopic Quantum Tunneling in Graphene-based Josephson Junctions** / LEE Gil-Ho, JEONG Dongchan, CHOI Jae-Hyun(Department of Physics, Pohang University of Science and Technology, Pohang 790-784), DOH Yong-Joo(Department of Display and Semiconductor Physics, Korea University Sejong Campus, Jochiwon, Chungnam 339-700, Republic of Korea), LEE Hu-Jong(Department of Physics, Pohang University of Science and Technology, Pohang 790-784)

DG-47\* [15:30-15:45]

**DC and AC Josephson Effects in PbIn-Graphene-PbIn Josephson Junction** / JEONG Dongchan, LEE Gil-Ho, CHOI Jae-Hyun(Department of Physics, Pohang University of Science and Technology, Pohang 790-784), DOH Yong-Joo(Department of Display and Semiconductor Physics, Korea University Sejong Campus, Jochiwon, Chungnam 339-700), LEE Hu-Jong(Department of Physics, Pohang University of Science and Technology, Pohang 790-784)

[DG8] 응집물질물리학분과회 General Session: 기타

2010년 10월 21일 목요일 16:00-18:00

장소: 휴닉스볼룸 I

좌장: 박성균 부산대

DG-48 [16:00-16:15]

**Quantum Kagome Antiferromagnet  $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$  Probed by**

**NMR / JEONG Minki, BERT Fabrice, MENDELS Philippe**(Laboratoire de Physique des Solides, Université Paris-Sud 11)

**DG-49\*** [16:15-16:30]

**Structural Investigation of Crystallographic Tilt and Strain Relaxation in Vicinal BiFeO<sub>3</sub>(001) Films / 김태현**(ReCFI, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Republic of Korea), **백승엽**(Department of Materials Science and Engineering, University of Wisconsin, Madison, WI 53706, USA), **장승엽, 양상모, 장서형**(ReCFI, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Republic of Korea), **엄창범**(Department of Materials Science and Engineering, University of Wisconsin, Madison, WI 53706, USA), **정진석**(Department of Physics, Soongsil University, Seoul 156-743, Republic of Korea), **노태원**(ReCFI, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Republic of Korea)

**DG-50\*** [16:30-16:45]

**Investigation of magnetic properties in multiferroic BiFeO<sub>3</sub>(001) films with controllable domain through temperature and substrate vicinality / JEON Byung Chul, KIM Tae Heon, LEE Daesu, YANG Sang Mo, SON Chang Hee, YOON Moon Jee**(Seoul National University, Department of Physics & Astronomy), **SONG Tae Kwon**(Changwon National University, School of Nano and Advanced Materials Engineering)

**DG-51\*** [16:45-17:00]

**Anisotropic Domain Growth in Epitaxial BiFeO<sub>3</sub> Capacitors on the Vicinal Substrate / 양상모, 김태현, 이대수**(ReCFI, Department of Physics and Astronomy, Seoul National University), **백승엽, 엄창범**(Department of Materials Science and Engineering, University of Wisconsin, USA), **윤종걸**(Department of Physics, University of Suwon), **정진석**(Department of Physics, Soongsil University), **노태원**(ReCFI, Department of Physics and Astronomy, Seoul National University)

**DG-52\*** [17:00-17:15]

**Large Ferroelectric Control of Electronic Conduction in BiFeO<sub>3</sub> / LEE Daesu, KIM T. H., NOH T. H.**(ReCFI, Department of Physics and Astronomy, Seoul National University, Korea), **BAEK S. H., EOM C. B.**(Department of Materials Science and Engineering, University of Wisconsin, USA)

**DG-53\*** [17:15-17:30]

**The role of O-vacancy in Negative Bias Illumination Stress Instability in amorphous In-Ga-Zn-O TFTs / RYU Byungki, NOH Hyeon-Kyun**(Department of Physics, Korea Advanced Institute of Science and

Technology), CHOI Eun-Ae(Samsung Electronics Co Ltd.), CAHNG Kee Joo (Department of Physics, Korea Advanced Institute of Science and Technology)

DG-54\* [17:30-17:45]

**Investigation of optical band gap and electronic transport p-type semiconductor Cu<sub>2</sub>O thin-films for photovoltaic applications**

KIM E., JO W.(Department of physics, Ewha Womans University, Seoul 120-750, Korea), LIM H. J., CHEONG H.(Department of physics, Sogang University, Seoul 121-742, Korea), KIM J. S., KIM W. M.(Thin Film Materials Research Center, Korea Institute of Science and Technology, Seoul 136-791, Korea)

DG-55 [17:45-18:00]

**First-principles Calculation of Magnetic Circular Dichroism by Real-time, Real-space TDDFT / LEE Kyung-Min(Graduate School of Pure and Applied Sciences, Univ. of Tsukuba), YABANA Kazuhiro(Center for Computational Sciences, Univ. of Tsukuba), BERTSCH George(Department of Physics and Institute of Nuclear Theory, University of Washington)**

[DG9] 응집물질물리학과회 General Session: 나노물리 IV

2010년 10월 21일 목요일 16:00-18:00

장소: 휘닉스볼룸 II

좌장: 부 상 돈 전북대

DG-56(초) [16:00-16:30]

**Nanomorphology control in bulk heterojunction materials by co-soluble processing additive / CHO Shinuk(Department of Physics, University of Ulsan & Center for Polymers and Organic Solids, University of California at Santa Barbara), MOON Jisun, HEEGER Alan J.(Center for Polymers and Organic Solids, University of California at Santa Barbara)**

DG-57 [16:30-16:45]

**Dynamics of artificial neurons / KIM Hyery, AHN Kang-Hun(Department of physics, Chungnam National University), NOGARET Alain(Department of Physics, University of Bath)**

DG-58 [16:45-17:00]

**$\alpha$ -MoO<sub>3</sub> Nanorod-based Electrochemical Energy Storage Devices SHAKIR Imran, SHAHID Muhammad, YANG Hyoung Woo, 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University)**

DG-59 [17:00-17:15]

**NEXT GENERATION ENERGY STORAGES DEVICES BASED ON HIERARCHICALLY POROUS MoO<sub>3</sub>-MWCNTS NANOCOMPOSITES**

SHAKIR Imran, SHAHID Muhammad(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan Univeristy), CHEREVKO Serhiy, CHUNG Chan-Hwa(Department of Chemical Engineering, Sungkyunkwan University), 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan Univeristy)

DG-60 [17:15-17:30]

**Constructing Photonic Band Gap Structure using  $\text{TiO}_2$  For Ultra Efficient Solar Cell Application** / ALI Zahid, SHAKIR Imran, SHAHID Muhammad, 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan Univeristy)

DG-61\* [17:30-17:45]

**High frequency CdS Nanowire Opto-mechanical Resonators**  
KIM Young Duck, CHO Myung Rae, CHO SungWan, HEO Kwang, HONG Seunghun, PARK Yun Daniel(Department of Physics & Astronomy, Seoul National University)

DG-62\* [17:45-18:00]

**Optical driving and measurement of nonlinear characteristics in mechanically coupled SiN nanomechanical resonator** / CHO Sungwan (Department of physics and astronomy, Seoul National University), CHO Sung Un(Low temperature laboratory, Aalto University, Finland), JANG Dong-Hyun, PARK Yun Daniel(Department of physics and astronomy, Seoul National University)

[DG10] 응집물질물리학분과회 General Session: 표면/계면 I

2010년 10월 22일 금요일 09:00-11:00

장소: 휘닉스볼룸

좌장: 김재성 숙명여대

DG-63 [09:00-09:15]

**Effects of the Na doping into the graphene/Ni(111) surface : Density-functional theory calculations** / PARK Jae Whan, KANG Myung Ho(포스텍 물리학과)

DG-64 [09:15-09:30]

**Band engineering of bilayer graphene by metal atoms : First-principles calculations** / OH Dong-Hwa, SHIN Bong Gyu(BK21 Physics Research Division, Sungkyunkwan University, Suwon, Republic of Korea), AHN Joung Real(BK21 Physics Research Division, Sungkyunkwan University, Suwon, Republic of Korea, SKKU Advanced Insititue of Nano Technology, Sungkyunkwan University, Suwon, Republic of Korea)



DG-65\* [09:30-09:45]

**First-principles study of boron segregation at Si/SiO<sub>2</sub> interface**

OH Young Jun, HWANG Jin-Heui, NOH Hyeon-Kyun, BANG Junhyeok, RYU Byungki, CHANG Kee Joo(KAIST, 물리학과)

DG-66\* [09:45-10:00]

**In-situ x-ray scattering study of NiPt-bimetallic nano-crystals**

DOYOUNG NOH(Gwangju Institute of Science and Technology), OKKYUN SEO, JAESUNG HWANG, PILGUN OH(School of Materials Science and Engineering, Gwangju Institute of Science and Technology), HYONCHOL KANG(Department of Advanced Materials Engineering and BK21, Chosun University), DAHYUN SONG(Department of Nanobio Materials and Electronics, Gwangju Institute of Science and Technology), SANGHOON UHM, SIJIN SUNG, JINWOOK CHUNG(Department of Physics, Pohang University of Science and Technology)

DG-67 [10:00-10:15]

**Room-T Photoluminescence and 3-defect states in SrTiO<sub>3</sub>**

CHOI EunJip, RHO JaeHoon(서울시립대)

DG-68\* [10:15-10:30]

**Novel Scanning Tunneling Spectroscopy for Volatile Adsorbates**

LYO In-whan, CHOI Eunyeong, LEE Younjoo(Institute of Physics and Applied Physics, Yonsei University)

DG-69 [10:30-10:45]

**Ab-initio Molecular Dynamics Study of the High-temperature (1x1) Phase of Pb on Si(111) / JUNG Sung Chul, KANG Myung Ho(포스텍 물리학과)**

DG-70 [10:45-11:00]

**A theoretical proposal for self-assembled one dimensional molecular lines across the dimer rows on H-terminated Si(001) surface / CHOI Jin-Ho, CHO Jun-Hyung(Hanyang university, Physics)**

[DG11] 응집물질물리학회 General Session: 표면/계면 II

2010년 10월 22일 금요일 11:15-12:45

장소: 휘닉스볼룸

좌장: 강명호 POSTECH

DG-71 [11:15-11:30]

**Carbon-induced reconstruction on W(110) / 김지현(숙명여대), 민항기(홍익대), ANDERS Axel(University of Nebraska-Lincoln), 김재성(숙명여대)**

DG-72\* [11:30-11:45]

**Comparison between in-situ doping and chemical doping in**

**Sr<sub>2</sub>RhO<sub>4</sub> studied by ARPES** / KIM Chul, KYOUNG W. S., KIM Y. K., SONG D. J.(Institute of Physics and Applied Physics, Yonsei University), YOSHIDA Yoshiyuki, EISAKI Hiroshi(Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology), KIM Keun Su, BOSTWICK Aaron, ROTENBERG Eli(Advanced Light Source, Lawrence Berkeley National Lab.), KIM B. J.(Material Science Division, Argonne National Lab.), KIM C.(Institute of Physics and Applied Physics, Yonsei University)

DG-73 [11:45-12:00]

**Si(111)4×1-In 표면에서의 산소결점 연구** / 이근섭, 심형준, 이우상(인하대)

DG-74\* [12:00-12:15]

**Local conduction behaviors and surface potential distribution of photovoltaic Cu(In,Ga)Se<sub>2</sub> thin films investigated by scanning probe microscopy** / SHIN R. H., JEONG A. R., JO W.(Ewha Womans University, Department of Physics), YOON J. H., AHN S.(Korea Institute of Energy Research,)

DG-75 [12:15-12:30]

**Polarization and Wavelength Dependent Transmittance of Nickel Transparent Electrodes** / CHOI Jaewu, LEE Chang-Mook(Kyung Hee University)

DG-76 [12:30-12:45]

**Growth and magnetism of quasi-one dimensional array of Co nanoclusters on C/W(110)** / 김지현(숙명여대), 민항기(홍익대), ANDERS Axel(University of Nebraska-Lincoln), 김재성(숙명여대)

**[EG1] 응용물리학분과회 General Session: Nanostructures**

2010년 10월 20일 수요일 13:00-15:00

장소: 다이아몬드

좌장: 유 경 화 연세대

**EG-01 [13:00-13:15]**

**Seebeck coefficient measurement of silicon nanowires / 현영훈, 장문규, 박영삼, 전명심**(Convergence Components & Materials Research Lab., ETRI), **최성진**(EECS, KAIST), **정태형, 양일석, 김종대**(Convergence Components & Materials Research Lab., ETRI)

**EG-02\* [13:15-13:30]**

**Interplay between structural and electronic properties of bundled  $\text{MoS}_2$  nanowires / KANG Seoung-Hun**(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University, Seoul, 130-701, Korea), **DAVID Tomanek**(Department of Physics and Astronomy, Michigan State University, East Lansing, Michigan 48824-2320, USA), **KWON Young-Kyun**(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University, Seoul, 130-701, Korea)

**EG-03\* [13:30-13:45]**

**Algorithmically Self-Assembled Copy Crystals by Geometrical Constraints / SHIN Jihoon, AMIN Rashid, KIM Seungjae**(Sungkyunkwan Advanced Institute of Nanotechnology (SAINT), BK21 Division and Department of Physics, Sungkyunkwan University), **HARIADI Rizal, ROTHMUND Paul, WINFREE Erik**(Department of Computer Science, Caltech, Pasadena, CA 91125, USA), **KWON Younghun**(Hanyang University, Department of Physics, Ansan, Gyeonggi 426-791, Republic of Korea), **PARK Sungha**(Sungkyunkwan Advanced Institute of Nanotechnology (SAINT), BK21 Division and Department of Physics, Sungkyunkwan University)

**EG-04\* [13:45-14:00]**

**Synthesis of Ag Nanowires and Applications to Transparent Conductive Films / LEE Chungyeol, GOAK Jeungchoon, LEE Naesung**(세종대)

**EG-05\* [14:00-14:15]**

**Anisotropic luminescence of individual dye-containing zeolite crystal / LIM Hyunjin, CHEONG Hyeonsik**(Sogang University, Department of Physics), **LEE Jin Seok, CHOI seoungeun**(Sookmyung Women's University, Department of Chemistry)

**EG-06\* [14:15-14:30]**

**Enhancement of nano-scaled water meniscus using electric field**

**based on the hybrid STM and QTF-AFM system /** AN Sangmin, LEE Kunyoung, LEE Manhee, JAHNG Junghoon, KIM Bongsu, JHE Wonho(Seoul National University, Department of Physics and Astronomy)

EG-07\* [14:30-14:45]

**Real time monitoring of chemosensitivity by capacitance based sensor /** 이리미, 박윤정, 유경화(연세대)

EG-08\* [14:45-15:00]

**Carbon Nanotube-Based Dual-Mode Biosensor for Electrical and Surface Plasmon Resonance Measurements /** 오제승, 장영욱, 김형준(연세대 나노메디컬협동과정), 유승환(연세대 물리학과), 김동준(연세대 전기전자공학부), 임성일(연세대 물리학과), 김동현(연세대 전기전자공학부 나노메디컬협동과정), 박영준(서울대 전기공학부), 유경화(연세대 물리학과 나노메디컬협동과정)

**[EG2] 응용물리학분과회 General Session: Photonics and Others**

2010년 10월 20일 수요일 13:00-15:00

장소: 별개미취 I

좌장: 우 정 원 이화여대

EG-09\* [13:00-13:15]

**Hollow toroidal microcavities and their modal properties /** 황경욱, 김시한, 차형래, 전현수(서울대 물리천문학부), 문두식, 이진규(서울대 화학부)

EG-10 [13:15-13:30]

**Cross-sectional atomic force microscope /** 박병천, 송운, 최진호, 안상정(한국표준과학연구원), 이주엽, 송원영, 정기영, 백승현, 홍재완(주)나노포커스

EG-11 [13:30-13:45]

**Realization of Acoustic Superlens /** PARK Choon Mahn(AEE center Anyang University), SEO Yong Mun(Dept. of Physics, Myongji University), LEE Sam Hyeon, KIM Chul Koo(Inst. of Physics and Applied Physics, Yonsei University)

EG-12 [13:45-14:00]

**First Observation of Reversed Doppler Effect in Metamaterials**  
SEO Yong Mun(Dept. of Physics, Myongji University), PARK Jong Jin, LEE Seung Hwan(Institute of Physics and Applied Physics, Yonsei University), PARK Choon Mahn(AEE Center, Anyang University), LEE Sam Hyeon, KIM Chul Koo(Institute of Physics and Applied Physics, Yonsei University)

EG-13 [14:00-14:15]

**Acoustic Surface Plasmon /** LEE Sam Hyeon(Institute of Physics and Applied Physics, Yonsei University), PARK Choon Mahn(AEE Center, Anyang University), SEO Yong Mun(Dept. of Physics, Myongji University), PARK Jong

Jin, LEE Seung Hwan, KIM Chul Koo(Institute of Physics and Applied Physics, Yonsei University)

EG-14 [14:15-14:30]

**Optimization of the laser induced PGNA system by GEANT4 / 심현하, 이경세, 홍병식(고려대), 이성만, 박성희, 박상순, 차형기(한국원자력연구원)**

EG-15\* [14:30-14:45]

**Photonic Crystal Digital Alloys / 이정국, 김동욱, 전현수(서울대)**

EG-16\* [14:45-15:00]

**GaN honeycomb-lattice photonic crystal band-edge laser**

KIM Dong-Uk, KIM Sunghwan, LEE Jeongkug, JEON Heonsu(서울대, 물리학과), JEON Seong-Ran(한국광기술원)

**[EF1] 응용물리학분과회 Focus Session: Biosensors and Nano-structures(recommended by CAP)**

2010년 10월 20일 수요일 17:30-19:30

장소: 다이아몬드

좌장: 이 은 철 경원대

EF-01(초) [17:30-18:00]

**Biosensors based on electrical property measurements**

YOO Kyung-Hwa(연세대)

EF-02(초) [18:00-18:30]

**Carbon Nanotube Based Biosensors / LEE Jeong-O, SERIN Park, DONG-WON Park, HYUNJU Chang(한국화학연구원 화학소재단 나노바이오융합 연구센터)**

EF-03(초) [18:30-19:00]

**나노 플라스틱 (Nano-Plastic) / JOO Jinsoo(고려대)**

EF-04(초) [19:00-19:30]

**융합나노구조 기반 바이오 센서(Hybrid Nanostructure-based Biosensors)**

HONG seunghun(서울대)

**[EG3] 응용물리학분과회 General Session: Carbon Nanotube and Graphene**

2010년 10월 21일 목요일 09:00-11:00

장소: 다이아몬드

좌장: 서 용 호 세종대

EG-17\* [09:00-09:15]

**Effect of Annealing Time on The Growth of Double-Walled Carbon Nanotubes / KO Jaesung, CHOI Insung, LEE Naesung(세종대)**

EG-18\* [09:15-09:30]

**Synthesis of graphene layers using graphite dispersion in aqueous surfactant solutions** / 심유민, 박준, 김유진, 성맹제(중앙대)

EG-19\* [09:30-09:45]

**Fully transparent p-SWNTs/n-ZnO Heterojunction Structure**

박민지, 장영옥, 강봉근, 손민수, 유경화(연세대)

EG-20\* [09:45-10:00]

**Magnetic Nanoparticle - Based Separation of Metallic and Semi-conducting Carbon Nanotubes** / 김형준, 황성식, 오제승, 장영옥

(Nanomedical Graduate Program, Yonsei University, Seoul, 120-749, Republic of Korea), 임은경, 함승주(Department of Chemical and Biomolecular Engineering, Yonsei University, Seoul, 120-749, Republic of Korea), 김철성(Department of Physics, Kookmin University, Seoul, 136-702, Republic of Korea), 유경화 (Nanomedical Graduate Program, Yonsei University, Seoul, 120-749, Republic of Korea ; Department of Physics, Yonsei University, Seoul, 120-749, Republic of Korea)

EG-21 [10:00-10:15]

**Electrical Characterization of SWNT-Networked Thin Film Transistors, Using Displacement Current Measurement** / OH Hwangyou(Printed Electronics in World Class University Program, Suncheon National University),

JUNG Minhun(Department of Chemical Engineering, Suncheon National University), JUNG Kyunghwan, LEE Kwangyong(Printed Electronics in World Class University Program, Suncheon National University), LIM Soyeon(Paru Printed Electronics Research Institute, PARU Co. Ltd.), YEOM Dong-Sun, MAJIMA Yutaka, CHO Gyoujin(Printed Electronics in World Class University Program, Suncheon National University)

EG-22 [10:15-10:30]

**SPM based Nano-patterning of Graphene with Environment Control** / SEO Yongho(세종대)

EG-23\* [10:30-10:45]

**Transparent Graphene Electrodes for GaN Light-Emitting Diodes and Organic Solar Cells** / GUNHO Jo(Department of Materials Science and Engineering, Department of Nanobio Materials and Electronics, Gwangju Institute of Science and Technology, Gwangju 500-712, Korea), SEOK-IN Na(Korea Institute of Science and Technology, Institute of Advanced Composite Materials, Jeollabuk-do, 565-902, Korea), CHU-YOUNG Cho(Department of Materials Science and Engineering, Department of Nanobio Materials and Electronics, Gwangju Institute of Science and Technology, Gwangju 500-712, Korea), JIN HO Kim(Department of Chemistry and SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, Suwon 440-746, Korea),

SANGCHUL Lee, WOJIN Park, DONG-YU Kim, SEONG-JU Park(Department of Materials Science and Engineering, Department of Nanobio Materials and Electronics, Gwangju Institute of Science and Technology, Gwangju 500-712, Korea), BYUNG HEE Hong(Department of Chemistry and SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University, Suwon 440-746, Korea), YUNG HO Kahng, TAKHEE Lee(Department of Materials Science and Engineering, Department of Nanobio Materials and Electronics, Gwangju Institute of Science and Technology, Gwangju 500-712, Korea)

EG-24\* [10:45-11:00]

**Fabrication of Field Emitters on a Metal Mesh by Filtrating Carbon Nanotubes of Different Diameters** / CHOI Ju Sung, LEE Han Sung, GOAK Jeung Choon, LEE Naesung(세종대)

**[EF2] 응용물리학분과회 Focus Session: Nano-Electronics and Nano-Electromechanics**

2010년 10월 21일 목요일 11:15-12:45

장소: 다이아몬드

좌장: 엄 종 화 세종대

EF-05(초) [11:15-11:45]

**In-situ characterization of nano-scale material properties enabled by nanomechanical systems: from elastic moduli to spin orbit coupling** / PARK Yun Daniel(Department of Physics & Astronomy, Seoul National University)

EF-06(초) [11:45-12:15]

**Influence of the interfaces in the device characteristics of nanowires** / KIM Gyu Tae(School of Electrical Engineering, Korea University)

EF-07(초) [12:15-12:45]

**Carbon Based Nanoelectronic and Nanoelectromechanical Devices** / LEE Sang Wook(Division of Quantum Phases and Devices, School of Physics, Konkuk University)

**[EF3] 응용물리학분과회 Focus Session: Progress in Magnetic Tunnel Junctions**

2010년 10월 21일 목요일 13:45-15:15

장소: 다이아몬드

좌장: 유 천 열 인하대

EF-08(초) [13:45-14:15]

**MgO-based Magnetic Tunnel Junctions for Spin-Transfer-Torque Random Access Memory** / MIN Byoung-Chul, SHIN Kyung-Ho(Korea Institute of Science and Technology)

EF-09(초) [14:15-14:45]

**Bias dependences of parallel and perpendicular spin-transfer**

## **torques in symmetric MgO-based magnetic tunnel junctions?**

JUNG M. H.(Dept. of Phys., Sogang University), PARK S(Korea Basic Science Institute), YOU C.-Y.(Dept. of Phys., Inha University), YUASA S(4Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology, Japan)

**EF-10(초)** [14:45-15:15]

**The effect of B on chemical states and electronic structures of CoFeB in CoFeB/MgO/CoFeB Magnetic Tunnel Junctions** / HAN Yoonsung (Materials Science and Engineering, Yonsei University), HAN JinHee, CHOI Hyung Joon(Department of Physics, Yonsei University), SHIN Hyun-Jun(Pohang Accelerator Laboratory), HONG Jongil(Materials Science and Engineering, Yonsei University)

### **[EF4] 응용물리학회 Focus Session: Physics of Resistive Switching Materials and Devices**

2010년 10월 21일 목요일 16:00-18:00

장소: 다이아몬드

좌장: 박 배 호 건국대

**EF-11(초)** [16:00-16:30]

**Interface-Modified Random Circuit Breaker Network Model for Explaining both Bipolar and Unipolar Resistance Switching** / 노태원(서울대)

**EF-12(초)** [16:30-17:00]

**Electrically induced one-dimensional filamentary switch in binary metal oxides and its inherent transport physics** / 임현식(동국대)

**EF-13(초)** [17:00-17:30]

**Overview of Materials and Process Aspect of Cross-point RRAM**  
황현상(광주과학기술원 신소재 공학과)

**EF-14(초)** [17:30-18:00]

**ReRAM 연구 최근 동향과 전망** / 김영배(삼성종합기술원)

### **[EG4] 응용물리학회 General Session: Devices**

2010년 10월 22일 금요일 09:00-11:00

장소: 다이아몬드

좌장: 김 동 욱 이화여대

**EG-25** [09:00-09:15]

**Topology of conducting paths and scaling theory for unipolar resistance switching** / 이재성, 이신범, 장서형, GAO Li Gang, 유향근(서울대), 강보수(한양대), 이명재(SAIT), 노태원, 강병남(서울대)

**EG-26\*** [09:15-09:30]

**Forming Mechanisms of Conducting Filaments in Unipolar**



**Resistance Switching** / 이신범, 유향근, 장서형, GAO Ligang(서울대), 강보수(한양대), 노태원(서울대)

EG-27\* [09:30-09:45]

**Forming Processes of Bipolar and Unipolar Resistance Switchings: Similarities and Differences** / YOO Hyang Keun, LEE Shin Buhm, LEE Jae Sung, CHANG Seo Hyung, KAHNG Byungnam(Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea), KANG Bo Soo(Department of Applied Physics, Hanyang University, Ansan, Gyeonggi-do 426-791, Korea), LEE Myoung-Jae, KIM Chang Jung(Samsung Advanced Institute of Technology, Yongin, Gyeonggi-do 446-712, Korea), NOH Tae Won(Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea)

EG-28\* [09:45-10:00]

**Doping-Level Dependent Current-Voltage and Photocurrent Characteristics of Resistive Switching Pt/SrTiO<sub>3</sub> Junctions**

LEE Eunsongyi, GWON Minji, KIM Dong-Wook(Department of Physics, Ewha Womans University)

EG-29\* [10:00-10:15]

**Resistive switching transition between bi-stable memory switching and mono-stable threshold switching induced by a voltage pulse in a Pt/NiO/Pt capacitor structure** / HWANG Inrok, BAE Jieun, KIM Jin-soo, CHOI Jinsik, HONG Sahwan(Konkuk University), LEE Myung-Jae, AHN Seung-Eon(Samsung Advanced Institute of Technology), KANG Bo Soo(Hanyang University), KANG Sung-Oong, PARK Baeho(Konkuk University)

EG-30\* [10:15-10:30]

**Way to Realization of High-density Crossbar Memory based on Bipolar Resistance Switching** / 장서형, 이신범, 유향근(서울대), 강보수(한양대), 노태원(서울대)

EG-31\* [10:30-10:45]

**Phase-Change Memory in Bi<sub>2</sub>Te<sub>3</sub> Nanowires** / 한날애, 유경화, 김성인, 양정도(Department of Physics, Yonsei University, Seoul 120-749, Republic of Korea), 소혜미, 안치원(National NanoFab Center, Daejeon 305-806, Korea)

EG-32\* [10:45-11:00]

**Doping effect on PbPdO<sub>2</sub> with magnetic ions** / 이규준, 추성민(서강대), SAIGA T., TAKABATAKE T.(Hiroshima University), 정명화(서강대)

**[EG5] 응용물리학회 General Session: Thin films and Applications**

2010년 10월 22일 금요일 11:15-13:15

장소: 다이아몬드

좌장: 이금원 고려대

**EG-33** [11:15-11:30]

**Effects of Fluorine Implantation on Boron Enhanced Diffusion in 1.8V p-channel MOSFETs** / KIM Joo-Hyung, KIM Jung-Joo, LEE Chang-Eun, LEE Kyu-Ok, LEE Jong-Ho, KIM Dong-Seok, YOO Kwang-Dong(Analog Foundry Division, Process Development Team, Dongbu HiTek Co., Ltd.)

**EG-34** [11:30-11:45]

**Energy level alignments at the interfaces of SubPc/C60 and CuPc/C60 for organic photovoltaic devices** / LEE Hyunbok, JEON Pyung Eun, LEE Jei Hyun, JEONG Kwangho(Institute of Physics and Applied Physics, Yonsei University), YI Yeonjin(Division of Industrial Metrology, Korea Research Institute of Standards and Science)

**EG-35\*** [11:45-12:00]

**The Diffusion of Silicon Atoms in the Stack Structure of  $\text{La}_2\text{O}_3$  and  $\text{Al}_2\text{O}_3$  during as-deposition and postannealing** / WOO-JUNG Lee, JINWON Ma, JUNGMIN Bae, CHUNGYI Kim, MANN-HO Cho(Yonsei University, physics and applied physics), KWUNBUM Chung(Dankook University, physics department)

**EG-36\*** [12:00-12:15]

**RF-Magnetron Sputtering 방법을 이용한 에칭된 Al 기판위에 코팅된 PTFE 박막의 발수특성 향상에 관한 연구** / 장지원, 배강, 서성보, 김동영, 손선영, 박승환, 김화민(대구가톨릭대)

**EG-37** [12:15-12:30]

**Atomic Ordering and Structural Determination of AlGaN/AlN/Si(111) Thin Films Using Anomalous X-ray Scattering**  
이현휘(포항공속기연구소, 빔라인부), 김효정(서울대), 이민수(경북대)

**EG-38\*** [12:30-12:45]

**Mechanics of Quartz Tuning-fork: Q-Control, Feedback Cooling, and Nonlinear Dynamics** / JAHNG Junghoon, AHN Sangmin, LEE Manhee(서울대)

**EG-39** [12:45-13:00]

**$\text{Y}_{(0.95-x)}\text{Al}_x\text{BO}_3:\text{Eu}_{0.05}^{3+}$  분말의 형광특성** / 이성수, 신평지, 우영민(신라대), 장기완, 이호섭(창원대)

EG-40\* [13:00-13:15]

**Correlation of chemical composition and bandgap tuning of chalcopyrite Cu(In,Ga)Se<sub>2</sub> thin-films for tandem solar cells**

JEONG A. R., JO W, SONG M., YOON S(Department of Physics, Ewha Womans University, Seoul 120-750, Korea), PARK D. Y., CHEONG H.(Department of Physics, Sogang University, Seoul 130-743, Korea), SEO Y. K., LEE Y. S.(Department of Physics, Soongsil University, Seoul 157-760, Korea), KANG S. J., KIM M.(Department of Materials Science and Engineering, Seoul National University, Seoul 151-742, Korea)

## [FG1] 통계물리학과회 General Session: 낱알 및 연물질계/다체계

2010년 10월 21일 목요일 09:00-11:00

장소: 에메랄드

좌장: 국형태 경원대

## FG-01 [09:00-09:30]

**Emission via dynamical tunneling process in a slightly deformed microcavity** / LEE Soo-Young(Seoul National University, School of Physics and Astronomy), LEE Sang-Bum(Korea Research Institute of Standard and Science), YANG Juhee, MOON Songky, SHIN Younghoon, KWAK Hojeong (Seoul National University, School of Physics and Astronomy), KIM Sang Wook (Pusan National University, Department of Physics Education), AN Kyungwon (Seoul National University, School of Physics and Astronomy)

## FG-02 [09:30-10:00]

**Revealing Heterogeneity and Hidden Complexity in the Dynamics of Conformational Switch in Holliday Junctions**  
현창봉(KIAS)

## FG-03 [10:00-10:15]

**Expansion of Harmonic Potential as an Analogy to Expansion of Rigid Wall** / 권철안(명지대), 박형규(고등과학원, 물리학과), 노재동(서울시립대)

## FG-04\* [10:15-10:30]

**Chain miscibility of ring polymers compressed in closed cylindrical pore** / KIM Juin, JEON Chanil, JEONG Hawoong(KAIST, Department of Physics), JUNG Youngkyun(KISTI, Supercomputing Center), HA Bae-Yeun(University of Waterloo, Department of Physics and Astronomy)

## FG-05 [10:30-10:45]

**Force correlation in stochastic dynamics** / YI Su Do, KIM Beom Jun (Department of Physics, Sungkyunkwan University)

## FG-06 [10:45-11:00]

**Scraping and Stapling of End-Grafted DNA Chains by a Bioadhesive Spreading Vesicle to Reveal Chain Internal Friction and Topological Complexity** / 남기문, 이남경(세종대), JOHNER albert, MARQUES Carlos Manuel(Institut Charles Sadron, Université de Strasbourg)

**[FG2] 통계물리학과회 General Session: 복잡계**

2010년 10월 21일 목요일 11:15 - 12:15

장소: 에메랄드

좌장: 정 하 응 카이스트

**FG-07** [11:15-11:30]

**Spreading dynamics with the power-law waiting time distribution** / 고광일, 민병준, 김인묵(고려대)

**FG-08** [11:30-11:45]

**Dielectric Relaxation Characteristics of Sugar Glasses**

HYUN-JOUNG Kwon, JEONG-AH Seo, HYUNG KOOK Kim, YOON-HWAE Hwang(Pusan Nat Univ, Department of Nanomaterials Engineering)

**FG-09\*** [11:45-12:00]

**Necessity of the Cell Cycle** / KWON Hyun Woong, CHOI Moo Young (Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University)

**FG-10\*** [12:00-12:15]

**Modeling Mobility with Memory** / 최지혜, 고광일, 김인묵(고려대)

**통계물리학과회 총회**

2010년 10월 21일 목요일 12:15 - 12:45

장소: 에메랄드

**[FG3] 통계물리학과회 General Session: 상전이와 임계현상/복잡계**

2010년 10월 21일 목요일 13:45 - 15:45

장소: 에메랄드

좌장: 정 형 채 세종대

**FG-11\*** [13:45-14:00]

**Quantum fluctuation induces double resonance behavior in the globally coupled quantum Ising model** / HAN Sung-Guk(Department of Physics, Sungkyunkwan University), UM Jaegon(School of Physics, KIAS), KIM BeomJun(Department of Physics, Sungkyunkwan University)

**FG-12** [14:00-14:15]

**Critical Behavior of Q-Coloring in Random Networks**

HA Meesoon(Department of Physics, KAIST), JEONG Hawoong(Department of Physics and Institute for the BioCentury, KAIST)

**FG-13\*** [14:15-14:30]

**Opinion Dynamics with Noise on Annealed Scale-Free Networks**

BAEK Yongjoo, HA Meesoon, JEONG Hawoong(Department of Physics, Korea Advanced Institute of Science and Technology)

FG-14\* [14:30-14:45]

**Spectral dimensions and rst passage time distribution of hierarchical scale-free networks /**

HWANG Sungmin, YUN C.-K (Department of Physics and Astronomy, Seoul National University), LEE D.-S (Department of Natural Medical Sciences and Department of Physics, Inha University), KAHNG B.(Department of Physics and Astronomy, Seoul National University, School of Physics, Korea Institute for Advanced Study), KIM D. (School of Physics, Korea Institute for Advanced Study)

FG-15\* [14:45-15:00]

**Spreading of crises in global macroeconomics /**

이규민(고려대), 양재석(Columbia Business School, Columbia University), 김건(경희대), 이재성(서강대), 고광일, 김인묵(고려대)

FG-16 [15:00-15:15]

**Viscoelastic behaviors in polymer nanodroplets collisions**

KIM Sangrak(Kyonggi Univ.)

FG-17 [15:15-15:30]

**Study on phenomena during the explosive percolation transitions /**

CHO Young Sul, KAHNG Byungnam(서울대)

FG-18\* [15:30-15:45]

**Emergence of Skew Distributions in Evolving Systems /**

GOH Segun, KWON H. W., CHOI M. Y.(Department of Physics and Astronomy and Center for Theoretical Physics, Seoul National University, Seoul 151-747, Korea), FORTIN J. -Y.(Institut Jean Lamour, Departement de Physique de la Matiere et des Materiaux, Nancy Universite, BP 70239 F-54506 Vandoeuvre les Nancy Cedex, France)

**[GG1] 물리교육분과회 General Session**

2010년 10월 21일 목요일 13:45 - 15:30

장소: 별개미취 |

좌장: 박 상 우 청주교대

**GG-01 [13:45-14:00]**

과학 교과서의 물리영역에 반영된 과학의 본성의 명시성 분석

김성원, 김주연, 정윤숙(이화여대)

**GG-02 [14:00-14:15]**

물리문제를 많이 풀어본 경험이 물리학습에 미치는 영향 : 과학고 학생들의 사례를 중심으로 / 변태진(한성과학고), 이경호(서울대)

**GG-03 [14:15-14:30]**

초등학교 및 중학교 과학교과서의 과학 개념 설명 방식 비교

박상우(청주교육대)

**GG-04\* [14:30-14:45]**

유전체 층에서의 반사와 투과에 대한 산란이론적 접근

신인철, 윤성현(한국교원대)

**GG-05\* [14:45-15:00]**

국내 일반물리학 교재의 '원자의 구조'에 대한 설명방식 분석 : 과학사 및 과학철학적 관점을 중심으로 / 권상운, 김나현, 이경호(서울대), NIAZ Mansoor(Venezuela, Universidad de Oriente, Department of Chemistry)

**GG-06 [15:00-15:15]**

소리의 스펙트럼 / 김승진, 장세중(한국교원대)

**GG-07\* [15:15-15:30]**

과학관 교육 프로그램 설계를 위한 초중고 과학교과서 분석 / 이선희, 김규환, 정애진, 황경하, 정의완, 한혜연, 김종복, 이길재, 강성주, 김학성, 손정주(한국교원대), 권효순, 양희정(국립과천과학관)

## SESSION H

## 플라스마물리학분과회

### [HF1] 플라스마물리학분과회 Focus Session: Plasma Medicine

2010년 10월 20일 수요일 13:00-15:00

장소: 금강화

좌장: 최 은 하 광운대

HF-01 [13:00-13:15]

**Experimental Studies of hydrogen plasma produced in capillary by electric discharge** / 오승용, OH Seong Yong(고등광기술연구소), NAM In-Huk, KIM Min-Seok(광공학응용물리학제전공), UHM Han S, KANG Hoonsoo, SUK Hyyong(고등광기술연구소)

HF-02 [13:15-13:30]

**A study of X-ray imaging of electron beam with two zone plates in PLS** / PARC Yong Woon, KO In Soo(Pohang University of Science and Technology, Department of Physics), HUANG Jung Yun(Pohang Univeristy of Science and Technology, Pohang Accelerator Laboratory)

HF-03(초) [13:30-14:00]

**Sterilization of microbes by microplasma jets** / 엄환섭(광운대)

HF-04(초) [14:00-14:30]

**전해질 내 플라스마 발생기전 및 생체응용에 관한 연구** / 김곤호, 윤성영, 장윤창(서울대)

HF-05(초) [14:30-15:00]

**저온 대기압 플라스마의 바이오 메디컬 분야에의 응용** / 박간영, 김곤준, 이현우, 최준, 심재윤, 김경태(포항공대), 김규천(부산대), 이재구(포항공대)

### [HG1] 플라스마물리학분과회 General Session

2010년 10월 21일 목요일 09:00-11:00

장소: 금강화

좌장: 강 흥 식 포항가속기연

HG-01\* [09:00-09:15]

**Parameter optimization of In-flight separator optics system with high mass resolution** / 노선영, 황지광, 김은산(경북대)

HG-02\* [09:15-09:30]

**Design of a symmetry in-flight separator optics for medium heavy-ion beams** / 황지광, 노선영, 김은산(경북대), HATANAKA Kichiji (Research Center for Nuclear Physics, Osaka University)

HG-03 [09:30-09:45]

**서프레이서를 장착한 액체금속이온원의 이온 방출 특성** / OH Hyun Joo, CHO



Byeong Seong, MIN Boo Ki, UHM Han S, CHOI Eun Ha, KANG Seung Oun(광운대)

**HG-04\*** [09:45-10:00]

**Results on beam tests of a beam position monitor for superconducting linear accelerator** / 류진영, 김영임, 김은산(경북대), HAYANO H(KEK), 유선영(부산대)

**HG-05\*** [10:00-10:15]

**레이저-플라즈마 기반 교번자장기 방사광 장치에서 4중극 자석 쌍의 역할**  
차혁진, 최일우, 김형택, 김이중, 정태문, 유태준, 이성구, 성재희(광주과학기술  
원 고등광기술연구소), 정영욱(한국원자력연구원 양자광학연구부), 이종민(광주과학  
기술원 고등광기술연구소)

**HG-06** [10:15-10:30]

**Observation of Alfvén waves and energetic electrons during sawtooth crashes in the KSTAR tokamak** / 윤건수, 이우창, 최민준, 김  
진철, 박현거(포항공대), BELLAN Paul(California Institute of Physics)

**HG-07\*** [10:30-10:45]

**Analysis of Coupling Coefficient of Inductively Coupled Plasma Sources** / LEE Seok-Hwan, PARK Sang-Joon(Department of Energy Systems  
Engineering, Seoul National University), JEON Sang-Jean, TOLMACHEV Yury,  
PASHKOVSKIY Vasily(Mechatronics and Manufacturing Technology Center,  
Samsung Electronics Co. Ltd.), KIM Gon-Ho(Department of Energy Systems  
Engineering, Seoul National University)

**HG-08\*** [10:45-11:00]

**2.45 GHz 전자 맴돌이 공명 이온원을 이용한 이온 주입용 전극의 최적  
화 연구** / 김동준, 이병섭, 원미숙, 박진용, 김병철, 옥정우, 윤장희, 배종성,  
김종필(한국기초과학지원연구원 부산센터)

**[HF2] 플라스마물리학분과회 Focus Session: Advanced Concept of X-ray Free Electron Laser and its Applications**

2010년 10월 21일 목요일 11:15-13:15

장소: 금강화

좌장: 석 희 용 광주과학기술원

**HF-06** [11:15-11:35]

**PAL XFEL: X-Ray Free Electron Laser Project of Pohang Accelerator Laboratory** / NAM S.H., KANG Heung Sik, YU Chungjong, KOO Tae-  
Yeong, NAMKUNG Won, REE Moonhor(Pohang Accelerator Laboratory)

**HF-07** [11:35-11:55]

**Start-to-End Simulation of PAL XFEL and Atto-second XFEL Scheme of PAL XFEL Using Optical Laser** / KANG Heung Sik, HUANG

Il-Moon, SHIN Seunghwan, NAM S.H.(Pohang Accelerator Laboratory),  
KUMAR Sandeep, KIM DONG EON(Physics Department, POSTeCh)

**HF-08** [11:55-12:15]

**Ultralow-noise and ultrafast lasers: How can we fully exploit them for the PAL-XFEL?** / KIM Jungwon(KAIST)

**HF-09** [12:15-12:35]

**Proposal of a Strong and High-accuracy Hybrid Electromagnetic Undulator for X-FEL** / 정영욱(한국원자력연구원 양자광학연구부)

**HF-10** [12:35-12:55]

**Status report of PIC code development for beam and plasma simulation** / HUR Min Sup(KAIST)

**HF-11** [12:55-13:15]

**New Science for XFEL** / KOO Tae-Yeong(Pohang Accelerator Laboratory, Pohang University of Science and Technology)

## SESSION I

## 광학 및 양자전자학분과회

### [IF1] 광학 및 양자전자학분과회 Focus Session : 레이저 50주년

2010년 10월 21일 목요일 16:00-18:00

장소: 에메랄드

좌장: 오 경 환 연세대

#### IF-01(초) [16:00-16:30]

페타와트 초강력 레이저 및 응용 / 유태준, 성재희, 이성구, 윤진우, 김이중, 김형택, 최일우, 정태문, 이종민(광주과학기술원 고등광기술연구소)

#### IF-02(초) [16:30-17:00]

펄스초 레이저 광주파수 빗살의 발생과 응용 / 윤태현(고려대)

#### IF-03(초) [17:00-17:30]

파장 가변 레이저의 발전 / 이상민(아주대)

#### IF-04(초) [17:30-18:00]

고출력 자유전자레이저 / 박성희(한국원자력연구원)

### [IG1] 광학 및 양자전자학분과회 General Session

2010년 10월 22일 금요일 09:00-11:00

장소: 에메랄드

좌장: 유 태 준 APRI

#### IG-01(초) [09:00-09:30]

**Subwavelength Plasmonic Lasing from a Semiconductor Nanodisk with Silver Nanopan Cavity** / 권순홍, 강주형(고려대), CHRISTIAN Seassal(Universite de Lyon), 김선경(고려대), PHILIPPE Regreny(Universite de Lyon), 이용희(KAIST 물리학과), CHARLES M. Lieber(Harvard University, Department of Chemistry and Chemical Biology), 박홍규(고려대)

#### IG-02 [09:30-09:45]

**High-speed terahertz time-domain spectroscopy based on electronically controlled optical sampling** / 이대수, 김영찬(한국표준과학연구원)

#### IG-03 [09:45-10:00]

**Long-Term Maintenance of the Carrier-Envelope Phase Coherence of a Femtosecond Laser** / 김억봉, 이재환(한국과학기술원, 물리학과), 이원규(한국표준과학연구원), LUU Tran Trung, 남창희(한국과학기술원, 물리학과)

#### IG-04 [10:00-10:15]

표면 플라즈몬 공명 바이오 광센서 모듈 개발에 관한 연구 / 박용민, 류지욱(공주대)

IG-05 [10:15-10:30]

**Fluorescence Imaging of Primo-Vessels with Confocal Microscopy using Galvanic Mirror Scanner** / 유정선(서울대), 우지훈(명지대), 재관 임(서울대), 김재순, 이성우(명지대)

IG-06 [10:30-10:45]

**마이크로 테이퍼링 기반의 어븀이 첨가된 광섬유 장주기 격자 개발**  
한영근, 윤민석(한양대)

IG-07 [10:45-11:00]

**Inverse biquadrate optical gravity and solar system entering the Pleiades star cluster** / 김명준(아주대 분자과), 민경욱, 신성철(KAIST), 신동호(삼성전자), 김상열(한국광학회)

**[IG2] 광학 및 양자전자학분과회 General Session**

2010년 10월 22일 금요일 11:15-13:00

장소: 에메랄드

좌장: 박 성 희 원자력연

IG-08\* [11:15-11:30]

**Control of terahertz nanoresonator by a single metallic nanorod**

김대식, 박형렬, 박영미(서울대), 최종호(고려대), 한상훈(서울대), OM Suwal, 최성수(선문대), 안광준, 박남규(서울대), 박규환(고려대)

IG-09\* [11:30-11:45]

**액체 내에서 동작하는 NSOM의 개발과 나노 바이오 이미징** / 박경덕(고등광기술연구소), 이승걸(인하대), 정문석(고등광기술연구소)

IG-10\* [11:45-12:00]

**Study of metamaterial resonance in modified metamaterial superlattices** / 이현희, 최은영, 김은선, 강보영, 우제훈, 김정희, 이연의, 우정원(이화여대), 김재훈, 홍태윤(연세대)

IG-11\* [12:00-12:15]

**Recent Progress of Coherent Hard X-ray Diffraction Imaging at Pohang Light Source** / 김수남, 김찬, 김윤희, MARATHE Shashidharha, 이수용, 김재명(광주과학기술원), 강현철(조선대), 노도영(광주과학기술원)

IG-12\* [12:15-12:30]

**Experimental Implementation of the Universal Transpose Operation** / LIM Hyang-Tag, RA Young-Sik, KIM Yong-Su(Dep. of Physics, POSTECH), BAE Joonwoo(School of Computational Sciences, Korea Institute for Advanced Study), KIM Yoon-Ho(Dep. of Physics, POSTECH)

IG-13\* [12:30-12:45]

**Experimental implementation and comparison of one and two**

**(vacuum + weak) decoy state method quantum key distribution  
in single mode fiber / 정연창, 김용수, 김윤희(POSTECH)**

**IG-14\* [12:45-13:00]**

**의료용 고조도 LED 헤드라이트 / 이의형, 정재현, 주영구(경북대)**

**[JG1] 원자 및 분자물리학분과회 General Session**

2010년 10월 21일 목요일 16:00-18:00

장소: 루비

좌장: 이 원 규 표준원

**JG-01(초) [16:00-16:30]**

**Efficient creation of NOON states in two-state Bose systems - Quantum state engineering using cold atom gases / WATANABE Gentaro**(Asia Pacific Center for Theoretical Physics (APCTP))

**JG-02(초) [16:30-17:00]**

**Reflection of He, He<sub>2</sub>, and He<sub>3</sub> from a plane ruled grating: Quantum reflection and emerging beam resonances / ZHAO Bum Suk, MEIJER Gerard, SCHÖLLKOPF Wieland**(Fritz-Haber-Institute of Max-Planck-Society)

**JG-03 [17:00-17:15]**

**Integration of Micro-optics with an Ion Trap for Scalable Quantum Information Processing / KIM Taehyun, NOEK Rachel, KNOERNSCHILD Caleb, MOUNT Emily, MAUNZ Peter, KIM Jungsang**(Duke University, Department of Electrical and Computer Engineering)

**JG-04 [17:15-17:30]**

**Relativistic Effects on Spin Entanglement of Dirac Massive Particles / 최태승**(서울여대), 허진, 김재완(KIAS)

**JG-05 [17:30-17:45]**

**Photo-ionization cross section of 2D planar Helium using smooth variable discretization log-derivative propagation method**  
LEE Min-Ho, CHOI NarkNyul(금오공대)

**JG-06 [17:45-18:00]**

**Solitons in an Optical Lattice**  
YOO Sungmi(Hallym University, Electron Physics), JAVANAINEN Juha(University of Connecticut, Department of Physics)

**[JG2] 원자 및 분자물리학분과회 General Session**

2010년 10월 22일 금요일 09:00-11:00

장소: 루비

좌장: 이 진 형 한양대

**JG-07\* [09:00-09:15]**

**파라핀이 코팅된 Rb 원자 증기셀에서 Hanle 신호의 특성 / 문한섭, 이현준, 유예진, 배인호**(부산대)

JG-08\* [09:15-09:30]

원자 결맞음 매질에서의 2차 간섭성의 전달 / 문한섭, 배인호, 이희정(부산대 물리학과)

JG-09\* [09:30-09:45]

Observation of electromagnetically induced transparency with optically selected atoms in specific velocity like as cold atoms ; crossover peak EIT / 유훈, 김관수, 김정동, 이현경, 김중복(한국교원대)

JG-10 [09:45-10:00]

Strong-Field Quantum Control of 2+1 Photon Process In Atomic Sodium / LEE Sangkyung, LIM Jongseok, AHN Jaewook(KAIST, 물리학과)

JG-11\* [10:00-10:15]

Quantum Control of Two-Photon Inter-excited State Transitions  
임종석, 이한결, 이상경, 안재욱(KAIST, 물리학과)

JG-12\* [10:15-10:30]

Compact Raman laser system using a single laser diode and a tapered amplifier / LEE K.S.(명지대), LEE S.B., PARK S.E., KWON T.Y.(한국표준과학연구원 길이사시간센터), KIM Jaewan(명지대)

JG-13\* [10:30-10:45]

이광자 흡수 효과가 강한 반도체 포화흡수거울에 의해 모드 잠금된 전 정 상 분산 광섬유 레이저 / 장광훈, 윤태현(고려대)

JG-14\* [10:45-11:00]

Partial Photoionization Cross Sections of  $N_2O$  / KIM Hyun, CHUNG Yang-Soo(Department of Physics, Chungnam National University)

**[JG3] 원자 및 분자물리학회분과회 General Session**

2010년 10월 22일 금요일 11:15-13:15

장소: 루비

좌장: 조 동 현 고려대

JG-15\* [11:15-11:30]

Fast production of large sodium Bose-Einstein condensates

CHOI Jae-yoon, HEO Myoung-Sun, SHIN Yong-il (Department of Physics and Astronomy, Seoul National University)

JG-16\* [11:30-11:45]

Investigation of the Pumping Characteristics of a Single-Photon Source based on a Coupled-Atom-Cavity System / KANG Sungsam, LIM Sooin, HWANG Myung Gyu, KIM Wookrae, KIM Jung-Ryul, LEE Jai-Hyung, AN Kyungwon(Department of Physics and Astronomy, Seoul National University)

**JG-17\*** [11:45-12:00]

**Machine learning based on quantum interference** / LEE Changhyoup(Department of Physics, Hanyang University), BANG Jungho (Department of Physics and Astronomy, Seoul National University), LEE Jinhyoung(Department of Physics, Hanyang University)

**JG-18\*** [12:00-12:15]

**Bell's Theorem For Continuous Variable With Symplectic Operation** / RYU Junghee, LIM James, LEE Changhyoup, LEE Jinhyoung (Department of Physics, Hanyang University)

**JG-19** [12:15-12:30]

**Genuinely high-dimensional nonlocality optimized by mutually complementary observables** / LIM James, RYU Junghee, YOO Seokwon, LEE Changhyoup, BANG Jeongho, LEE Jinhyoung(Department of Physics, Hanyang University)

**JG-20\*** [12:30-12:45]

**Theoretical analysis and observation of Duffing oscillation in an optically modulated magneto-optical trap** / MOON Geol, KIM Yonghee, KIM Ji Hyoun, HEO Myoung-Sun, JHE Wonho, NOH Heung-Ryoul(서울대)

**JG-21\*** [12:45-13:00]

**Optoelectronic oscillator with an intra-loop Fabry-Perot cavity**  
김장면, 조동현(고려대)

**JG-22\*** [13:00-13:15]

**Oscillator Free Atomic Clock** / 임신혁, 조동현(고려대)



**[KG1] 반도체물리학분과회 General Session: III-V 화합물 반도체**

2010년 10월 21일 목요일 09:00-11:00

장소: 별개미취 I

좌장: 김 동 욱 이화여대

**KG-01(초) [09:00-09:30]****High efficiency GaAs based multijunction solar cells / 김호경(한밭대)****KG-02\* [09:30-09:45]****Anomalous Hall effect responses in a buckled GaMnAs Hall beam structure / YANG Chanuk, CHOI Hyung Kook, KIM Tai Hoon, JANG Dong-Hyun, CHO Sung Un, CHO Myung Rae(Seoul national university, Department of Physics and Astronomy), SHIM Seung Bo, KIM Jinhee(Korea Research Institute of Standards and Science, Center for Nano- and Quantum Science), PARK Yun Daniel(Seoul national university, Department of Physics and Astronomy)****KG-03\* [09:45-10:00]****상온 1.3  $\mu\text{m}$ 에서 발광하는 InAs/GaAs 양자점 excited state의 운반자 동역학 / 안성수, 장유동, 박재규, 뉘엿뉴 흥, 이동한(충남대)****KG-04\* [10:00-10:15]****Properties of nonpolar a-plane (11-20) InGaN/GaN blue LED grown on r-plane (1-102) sapphire substrates / KIM Ji-Hoon(Korea University, Department of Electronics Engineering), LEE Sung-Ho, SON Ji-Su, SONG Hooyoung, BAIK Kwang Heyon(Korea Electronics Technology Institute, Energy Nano Materials Research Center), PARK Jung Ho(Korea University, Department of Electronics Engineering), HWANG Sung-Min(Korea Electronics Technology Institute, Energy Nano Materials Research Center)****KG-05 [10:15-10:30]****Magnetic Inhomogeneity Of The GaMnAs Film / LEE Sangyeop, LEE Hakjoon, SHIN Jinsik, LEE Sanghoon(Department of Physics, Korea University), LIU .X, FURDYNA .J.K(Department of Physics, University of Notre Dame)****KG-06 [10:30-10:45]****Ultrafast Gain and Phase Dynamics of an InAs/InGaAsP Quantum Dot Semiconductor Optical Amplifier at 1.5  $\mu\text{m}$  / 박재규, 김남제, 장유동, 이은구, 이종민, 백종서, 김지희, 이기주, 이동한(충남대), 편수현, 정원국(성균관대), 김정호(경희대)****KG-07\* [10:45-11:00]****Surface Morphology Evolution of m-oriented GaN Domains on**

**[KF1] 반도체물리학회 Focus Session : 차세대 비실리콘계 태양전지**

2010년 10월 21일 목요일 11:15-13:15

장소: 별개미취 |

좌장: 최 인 환 중앙대

**KF-01(초)** [11:15-11:45]

**고효율 집광형 태양광 발전 모듈의 개발 동향(Development Trends of High Efficiency Concentrating Photovoltaic Modules)**

김성빈(Sung-Bin Kim)(주)애니캐스팅(AnyCasting Co., Ltd.)

**KF-02(초)** [11:45-12:15]

**CIGS 박막형 태양전지의 연구 동향 / 김준호(인천대)**

**KF-03(초)** [12:15-12:45]

**유기박막태양전지 연구 동향과 주요 해결과제 / 이창희(서울대)**

**KF-04(초)** [12:45-13:15]

**Design of Structures for the High Efficiency Dye-sensitized Solar Cell / KIM Kyungkun(Solar Cell Center, KIST)**

**[KT1] 반도체물리학회 Tutorial Session : 저차원 반도체 박막 성장 및 응용**

2010년 10월 21일 목요일 16:00-17:30

장소: 별개미취 |

좌장: 손 윤 동국대

**KT-01(초)** [16:00-17:30]

**3-5족 화합물 반도체의 MBE성장과 이의 2D, 1D 그리고 0D 구조응용  
송진동(한국과학기술연구원 나노융합소자센터)**

**[KG2] 반도체물리학회 General Session: II-VI 화합물 반도체**

2010년 10월 22일 금요일 09:00-11:00

장소: 금강화

좌장: 김 진 수 전북대

**KG-08\*** [09:00-09:15]

**Structural Analysis of Interface Region of ZnO Nanorods Grown on Various Metal Thinfilms / KWAK Chang Ha, SEO Soo Young, KIM Seon Hyo(POTECH, materials Science and Engineering), PARK Chang In(Chonbuk National University, Department of Physics), HAN Sang Wook(Chonbuk National University, Division of Science Education)**

**KG-09\*** [09:15-09:30]

**Growth and Characterization of K-N co-doped ZnO by PLD towards achieving stable acceptor levels / 신찬섭, SUBRAMANIAM**

Nagarajan Ganapathi, 이주원, 이재철, 박은지, 이지은, 이민영, 강태원\*  
(동국대)

**KG-10** [09:30-09:45]

**Soft reverse characteristics of SWCNT/SnO<sub>2</sub> nanowires heterojunction arrays on flexible polyimide substrate** / 하정숙, 박재현, 김윤철, 배민영(고려대)

**KG-11\*** [09:45-10:00]

**Piezoelectric Touch-Sensible Flexible Hybrid Energy Harvesting Nanoarchitectures** / LEE Keun Young(Sungkyunkwan University, School of Advanced Materials Science and Engineering), CHOI Dukhyun(Kyung Hee University, Department of Mechanical Engineering), LEE Kang-Hyuck(Sungkyunkwan University, School of Advanced Materials Science and Engineering), KIM Eok Su, KIM Tae Sang, LEE Sang Yoon, CHOI Jae-Young, KIM Jong Min(Samsung Advanced Institute of Technology), KIM Sang-Woo(Sungkyunkwan University, School of Advanced Materials Science and Engineering/SKKU Advanced Institute of Nanotechnology (SAINT)/Center for Human Interface Nanotechnology (HINT))

**KG-12\*** [10:00-10:15]

**Sound-Driven Piezoelectric Nanowire-Based Nanogenerators**

SEO Ju-Seok(Sungkyunkwan University, School of Advanced Materials Science and Engineering), CHA Seung Nam, PARK Young Jun, KIM Seong Min, KIM Hyun Jin(Samsung Advanced Institute of Technology), KIM Sang-Woo(Sungkyunkwan University, School of Advanced Materials Science and Engineering), KIM Jong Min(Samsung Advanced Institute of Technology)

**KG-13\*** [10:15-10:30]

**Vertically aligned ZnO nanostructures grown on graphene**

김용진(포항공대), 이재현(서울대), 이철호(포항공대), 이규철(서울대)

**KG-14\*** [10:30-10:45]

**다강성 ZnO:(Cr,Ti) 박막의 성장과 특성 연구** / 유한태, 이영민, 이세준, 이진용, 김득영(동국대)

**KG-15\*** [10:45-11:00]

**Ultrafast diffusion dynamics of excitons in ZnO** / 조영달, 변상욱, 정훈일(광주과학기술원 정보통신공학과), COKK C.J.(Department of Physics, University of Florida, Gainesville), SANDERS G.D.(Department of Physics, University of Illinois, Urbana), STANTON C.J.(Department of Physics, University of Florida, Gainesville), 유진경, 이규철(서울대)

**[KG3] 반도체물리학회분과회 General Session: IV-IV 화합물반도체, 혼정 및 기타**

2010년 10월 22일 금요일 11:15-12:30

장소: 금강화

좌장: 김 중 수 영남대

**KG-16(초) [11:15-11:45]**

**Recent advances in understanding and improving Cu(In,Ga)Se<sub>2</sub> solar cells** / CHOI Sungwoo, TAMPO H, FURUE S, KOMAKI H, YAMADA A, ISHIZUKA S, MATSUBARA K, NIKI S(Research Center for Photovoltaics, AIST, Japan), WOO Y.D.(Department of Mechanical and Automotive Engineering, Woosuk University), KANG T.W.(Department of Physics, Dongguk University)

**KG-17\* [11:45-12:00]**

**실리콘 나노선의 형상학적 및 결정학적 제어** / 김정길, 최석호(경희대 응용물리학과), 김영현, 이우(한국표준과학연구원)

**KG-18 [12:00-12:15]**

**Block Copolymer Patterning and Its Application in Computational Lithography** / 김상곤(한양대)

**KG-19\* [12:15-12:30]**

**Local Symmetry Study Of O<sub>3</sub> Time Variated-HfO<sub>2</sub> Deposited By Atomic Layer Deposition With Electron Energy Loss Spectroscopy** / 장재혁, 정형석, 김정환, 이상영, 황철성, 김미영(서울대)

**[LG1] 천체물리학분과회 General Session**

2010년 10월 20일 수요일 13:00-15:15

장소: 루비

좌장: 이 정 재 대전대

**LG-01** [13:00-13:15]**Cosmological constraints on dark energy / 송용선(KIAS, Physics)****LG-02** [13:15-13:30]**Scattering Processes of Black Holes in Parabolic Orbits / HANSEN Jakob(KISTI), DIENER Peter(Center for Computation and Technology at Louisiana State University), KANG Gungwon(KISTI), KIM Hee-Il(서울대 물리천문학부)****LG-03\*** [13:30-13:45]**Core-Collapse Simulations with Neutrino Transport****PARK Dongho(Seoul National University & KISTI)****LG-04\*** [13:45-14:00]**Fundamental Plane in The Scalar Field Dark Matter Model****LIM Sooil(Department of Physics and Astronomy, Seoul National University & KISTI), LEE Hyung Mok(Department of Physics and Astronomy, Seoul National University), KANG Gungwon(KISTI)****LG-05** [14:00-14:15]**Dark energy and dark matter accretion onto a black hole****KIM Sung-Won, KANG Yuri(Ewha Womans University)****LG-06** [14:15-14:30]**2nd order cosmological perturbations using Hamiltonian formalism / KOH Seoktae(Sogang Univ.)****LG-07** [14:30-14:45]**KASI Space Geodesy Group Research - Report / 나성호(한국천문연구원)****LG-08\*** [14:45-15:00]**Ultra-High Energy Cosmic Ray trigger for the JEM-EUSO mission at ISS / 정애라, 김지은, 나고운, 남신우, 남지우, 박일홍, 서정은, 이직, 전진아(이화여대), 조광호(한양대)****LG-09\*** [15:00-15:15]**Statistical Analysis of the Correlation between Active Galactic**

**Nuclei and Ultra-High Energy Cosmic Rays / KIM Hang Bae, KIM Ji-hyun(한양대)**

**[LF1] 천체물리학분과회 Focus Session: Observational Challenges in the Universe I**

2010년 10월 20일 수요일 17:30-18:30

장소: 루비

좌장: 오 정 근 국가수리과학연구소

**LF-01 [17:30-18:00]**

**Constraint of Dark-Energy Models with SNe-Ia and Gamma Ray Burst data / KEUM Yong-Yeon(Institute for the Early Universe/Ewha Womans University), JEONG Soomin(RCMST/Ewha Womans University), OKUMURA Teppei, UHM Lucas, Z. H.(Institute for the Early Universe/Ewha Womans University)**

**LF-02 [18:00-18:30]**

**CREAM 고에너지 우주선 데이터 결과와 새 전하량 검출기 제작**  
남지우(이화여대)

**천체물리학분과 총회**

2010년 10월 20일 수요일 18:30-19:00

장소: 루비

좌장: 이 형 원 인제대

**[LS1] 천체물리학분과회 Special Session: Astro-Particle Physics**

2010년 10월 21일 목요일 09:00-11:00

장소: 루비

좌장: 이 형 원 인제대

**LS-01 [09:00-09:30]**

**Gamma Ray Bursts a frontier on White Dwarfs, Neutron Stars and Black holes and fundamental Physics / RUFFINI Remo(연세대)**

**LS-02 [09:30-10:00]**

**Mach or Higgs? The mechanisms to generate mass / NOVELLO Mario(ICRANet)**

**LS-03 [10:00-10:30]**

**Electron-positron pair creation and oscillation in physics and astrophysics / XUE She-Sheng(ICRANet)**

**LS-04 [10:30-11:00]**

**Thermalization of electron-positron plasma / VERESHCHAGIN Gregory(ICRANet)**

**[LF2] 천체물리학분과회 Focus Session: Observational Challenges in the Universe II(핵, 입자, 천체 공동세션)**

2010년 10월 21일 목요일 11:15-13:15

장소: 루비

좌장: 이 현 규 한양대

**LF-03** [11:15-11:45]

감마선폭발 초기관측을 위한 UFFO(Ultra-Fast Flash Observatory) 프로젝트의 현황 / 박일홍(이화여대)

**LF-04** [11:45-12:15]

AMS Experiment at the International Space Station / 손동철(for High Energy Physics, Kyungpook National University)

**LF-05** [12:15-12:45]

Results from the Telescope Array Experiment / 천병구(한양대)

**LF-06** [12:45-13:15]

KoRIA를 이용한 천체핵물리 : Nuclear Astrophysics at KoRIA  
한인식(이화여대)

**[LF3] 천체물리학분과회 Focus Session: Observational Challenges in the Universe III**

2010년 10월 21일 목요일 14:00-15:30

장소: 루비

좌장: 김 상 표 군산대

**LF-07** [14:00-14:30]

Progresses of the Sloan Digital Sky Survey / 박창범(KIAS)

**LF-08** [14:30-15:00]

Korean VLBI Network and its Key Sciences / 조세형(KASI)

**LF-09** [15:00-15:30]

Korean Contributions to The JEM-EUSO Mission for Detection of Extremely Energetic Cosmic / 김석환(연세대)

**[LS2] 천체물리학분과회 Special Session: Astrophysics of Compact Objects**

2010년 10월 22일 금요일 09:00-11:00

장소: 토파즈

좌장: 강 궁 원 KISTI

**LS-05** [09:00-09:30]

Hole Formation as a Probe into Microphysics / YAMADA Shoichi  
(Waseda University, Japan)

**LS-06** [09:30-10:00]

**Multidimensional Modeling of Core-Collapse Supernovae**

KEI KOTAKE Kei(Astronomical Observatory of Japan, Japan)

**LS-07** [10:00-10:30]

**General-relativistic simulations of binary neutron-star mergers**

BAIOTTI Luca(Osaka University, Japan)

**LS-08** [10:30-11:00]

**Formation and Evolution of Neutron Star Binaries / LEE Chang-**

Hwan(Pusan National University, Korea)



*The Korean Physical Society*

## **포스터발표논문 시간표**



## SESSION P1

응집물질물리학분과회  
포스터 발표: 나노물리/초전도/강상관계

2010년 10월 20일 수요일 13:00-15:00

장소: 스키하우스

P1  
포스터  
세션

### Dp-I-001\*

**Carbon Nanotube Field Emitters Fabricated by a Filtration-Transfer Method** / SONG Yenan, SHIN Dong Hoon, SUN Yuning, SHIN Ji Hong, JUNG Seung Il, LEE Cheol Jin(School of Electrical Engineering and Department of Micro/Nano Systems, Korea University, Seoul 136-713, Korea)

### Dp-I-002

**Selective Removal of Metallic Single-walled Carbon Nanotubes via Microwave Irradiation** / 박종윤, 김성환, 김유석, 송우석(성균관대 물리학과 나노물리연구소)

### Dp-I-003\*

**Electrical properties of graphene nano-ribbon array devices fabricated by using e-beam lithography and oxygen plasma etching method** / 김범규, 전은경, 김주진(전북대)

### Dp-I-004\*

**Fabrication and characterization of single Si nanowire vertical field effect transistor with surrounding gate geometry** / 정두원, 김주진(전북대), 김일수, 이기영, 김소은, 최현진(연세대)

### Dp-I-005\*

**SYNTHESIS OF LITHIUM NIOBATE NANOFLAKES BASED ELECTROCHEMICAL ENERGY STORAGE DEVICES** / LIU Jingling, SHAKIR Imran, SHAHID Muhammad, 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University)

### Dp-I-006

**기판의 거칠기 변화에 따른 그래핀 특성 연구** / 이덕현, 이미정, 최진식, 변익수, 이승웅, 박배호(건국대)

### Dp-I-007

**텅스텐 산화물의 성게형태 나노 구조 합성과 특성 분석** / 김도형, 박경태, 김도윤, 최원진, 박형우(경북대)

### Dp-I-008

**Fabrication of ZnO nanorods on TiO<sub>2</sub>/PAN composite fibers and its photocatalytic activity** / CHO Chae-Ryong, PARK So-Young, LEE

Hyun-Uk, KANG Yoon-Hee(Pusan National University, College of Nanoscience and Nanotechnology)

**Dp-I-009**

**Modification of the Electronic Structures of Graphene by Viologen**

JEONG Hae Kyung(Department of Physics, Daegu University, Gyeongsan 712-714, Korea), KIM Ki-jeong(Beamline Research Division, Pohang Accelerator Laboratory (PAL), Pohang 790-784, Korea), KIM Soo Min, LEE Young Hee(BK21 Physics Division, Department of Energy Science, Sungkyunkwan Advanced Institute of Nanotechnology, Center for Nanotubes and Nanostructured Composites, Sungkyungkyun University, Suwon 440-746, Korea)

**Dp-I-010**

**Diffusion length and lifetime of a photocarrier in a Ge nanowire**

SHIN Yun-Sok, LEE Donghun, LEE Hyun-Seung, KIM Cheol-Joo, CHO Yon-Jun, JO Moon-Ho(Pohang University of Science and Technology, Department of Materials Science and Engineering)

**Dp-I-011**

정전 결합력에 따른 나노전기역학계의 비선형 운동 관찰 / 김상군, 노현호, 심승보, 이광철, 김진희(한국표준과학연구원)

**Dp-I-012**

**Study on the graphene tunneling FET** / 이윤희, 이종희(고려대)

**Dp-I-013\***

질소 원자가 흡착된 금원자로 이뤄진 공모양의 나노구조에 대한 제일 원리적 연구 / 임찬영(세종대학교), 강승훈, 김건(경희대)

**Dp-I-014\***

전자빔조사에 의한 에폭시의 경화도 분석 / 김재용, 이정민, 정희일, 황진영(한양대), 최재학(한국원자력연구원 정읍 방사선과학연구소 방사선공업환경연구센터)

**Dp-I-015\***

**Role of TiO<sub>2</sub> nanorods length on electrical property of TiO<sub>2</sub> nanobarberd fiber structure**

/ CHO Chae-Ryong, AHN Kyun, LEE Hyun-Uk, JEONG Yong-Min(Pusan National University, Department of Nano Fusion Technology and College of Nanoscience and Nanotechnology), KIM Jong-Pil(Korea Basic Science Institute, Busan Center)

**Dp-I-016\***

**Facile Synthesis and Field Emission Properties of single crystalline beta- Na<sub>0.33</sub>V<sub>2</sub>O<sub>5</sub> Nanowires**

/ TRANG Nguyen Thi Hong, SHAKIR Imran, SHAHID Muhammad, 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced

**Dp-I-017**

나노 피펫 프로브를 이용한 칼륨과 나트륨 이온의 선택적 분리 식별 연구  
SON Jong Wan, TAKAMI Tomohide, LEE Joo Kyung, PARK Bae Ho, KAWAI Tomoji(Division of Quantum Phases & Devices, School of Physics, Konkuk University, Seoul 143-701)

**Dp-I-018\***

**Reaction time and heat treatment dependence on the electrical property of ZnO Nanobarbed-fibers** / CHO Chae-Ryong, JEONG Yong-Min, LEE Hyun-Uk, AHN Kyun(Pusan National University, Department of Nano Fusion Technology and College of Nanoscience and Nanotechnology), KIM Jong-Pil(Korea Basic Science Institute, Busan Center)

**Dp-I-019\***

**Investigation of Change in Thermo-mechanical Properties of Metallic Thin-film Via Incorporating Carbon-based Low-dimensional Material as Laminate Structural Material** / CHO Myung Rae, KIM Young Duck, LEE Byung Yang, HONG Seunghun, PARK Yun Daniel (Department of Physics and Astronomy, Seoul National University)

**Dp-I-020\***

**Facile Synthesis and Characterization of  $\text{H}_x\text{MoO}_3$  Nanorods Metal-Insulator-Semiconductor (MIS) Capacitors** / SHAKIR Imran, SHAHID Muhammad, 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University)

**Dp-I-021\***

**Electrical Properties Of Both Memory and Threshold Switching in  $\text{Nb}_2\text{O}_5$  Thinfilms** / BAE Jieun, HWANG I. R, KIM J.S, CHOI J.S, BYUN I.S, KIM Y.S, OH G.T, YOON I. S, LEE D.H, JEAN J.H, SON J.W, CHALLINOR Amy, KANG S.O, PARK B.H(건국대)

**Dp-I-022**

**Design and Construction of a Dual Focusing Electrode CNT-Based Micro-focus X-ray Tube** / KIM Hyun Suk(Wonkwang University, Regional Innovation Center for Next Generation Industrial Radiation Technology), CASTRO Edward Joseph(Wonkwang University, Division of Microelectronics and Display Technology), HWANG Yong Gyoo, LEE Choong Hun(Wonkwang University, Regional Innovation Center for Next Generation Industrial Radiation Technology, Division of Microelectronics and Display Technology)

**Dp-I-023\***

**Storing charges on metal nanoparticles decorated on an SWNT-**

**FET / LO** Young-Seop, **KIM Ju-Jin**(Department of Physics, Chonbuk National University), **LEE Jeong-O**(NanoBio Fusion Research Center, Korea Research Institute of Chemical Technology)

**Dp-I-024\***

**Effects of ion-beam treatment on  $ZrO_2$  thin film** / OH Gwangtaek, CHOI Jinsik, KIM Jin-Soo(건국대)

**Dp-I-025\***

**Memristive behaviors in highly oriented  $TiO_2$  thin films** / KIM Jin-soo, YOON In-song, HONG Sa-hwan, HWANG in-rok, KANG Sung-Oong, CHOI JinSik, KIM Yeon soo, PARK BAE HO(Konkuk Univ., Division of Quantum Phases and devices)

**Dp-I-026**

**$Cd_{1-x}Zn_xTe/ZnTe$  다중 적층 양자점의 전자적 구조** / 유주형, 진준(한양대), 유건호(경희대), 김태환(한양대)

**Dp-I-027**

**Electronic Structure Studies of Cu-doped ZnO Epitaxial Thin Films by X-ray Absorption Spectroscopy** / LEE Ik-Jae, SUNG Nark Eon, LEE Han-Koo, SHIN Hyun-Joon, YUN Young-Duck, KANG Seen-Woong (포항공대)

**Dp-I-028\***

**$^{109}Ag$  NMR Study of Ag nanoparticles** / SON K., LEE T. H.(Kookmin University, Department of Physics), SUH B. J.(The Catholic University of Korea, Department of Physics), JANG Z. H.(Kookmin University, Department of Physics)

**Dp-I-029\***

**Characteristics of Resistive Switching Depending on Localized Conducting Filaments** / PARK Bae Ho, KIM Yeon Soo, KIM Jin-Soo, CHOI Jin Sik, HWANG In Rok, HONG Sahwan, OH Gwangtaek, YOON Insong, BAE Jieun, KANG Sung-Oong(건국대)

**Dp-I-030**

**그래핀 주름의 형성 및 특성 연구** / 이미정, 이덕현, 최진식, 변익수, 이승웅, 박배호(건국대)

**Dp-I-031\***

**우리 주변에서 흔히 보는 약물 분자들에 대한 밀도 범함수론 연구**  
백상원, 이경민, 정지홍(세종과학고), 권대건, 이형준, 김건(경희대)

**Dp-I-032**

**Study of nano-scale photo-polymerized fullerene ( $C_{60}$ ) clusters**

**formed in solution droplet by using ultrasonic nebulizer unit**  
YE0 Seung Jun, CHO Dae Hee, PODe Ramchandra, AHN Jeung Sun  
(Department of Physics, Kyunghee University)

**Dp-I-033\***

**CHARGE STORAGE CHARACTERISTIC of COPPER VANADATE NANOWIRES BASED MIS CAPACITOR** / SHAHID Muhammad, SHAKIR Imran, 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University)

**Dp-I-034\***

편극 패턴된 강유전체 위에 광화학적 방법에 의한 금속 나노입자 증착에 관한 연구 / 박영식, 추 벤벤, 민치홍, 양우철(동국대)

**Dp-I-035**

금속-그래핀 계면장벽에 관한 연구 / 이윤희, 김윤중(고려대)

**Dp-I-036\***

**Enhanced Field Emission Properties of the Multi-Walled Carbon Nanotube Fiber** / SHIN Dong Hoon, SONG Yenan, SUN Yuning, SHIN Ji Hong, CHEN Guohai, LEE Cheol Jin(School of Electrical Engineering and Department of Micro/Nano Systems, Korea University, Seoul 136-713, Korea)

**Dp-I-037\***

**SINGAL CRYSTALLINE MoV<sub>2</sub>O<sub>8</sub> NANOWIRES Based SUPERCAPACITORS**  
SHAHID Muhammad, SHAKIR Imran, JANG ARang, JANG ARang, 강대준  
(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University)

**Dp-I-038\***

**Photo Conductivity of C<sub>60</sub> Composites decorated SWNT-FET**  
JEON Eun-Kyoung(Korea Research Institute of Chemical Technology, NanoBio Fusion Research Center), KIM Ju-Jin(Chonbuk National University, Department of Physics), SHEN Yanfei, NAKANISHI Takashi(Japan, National Institute for Materials Science), LEE Jeong-O(Korea Research Institute of Chemical Technology, NanoBio Fusion Research Center)

**Dp-I-039**

**Chirality strength between the E11 and the E22 transitions through the Near-Band-Edge-Excitation in CoMoCAT SWNTs** / 한혜선, 임용식(건국대), 이기주(충남대), J. Kono(Rice University)

**Dp-I-040\***

**Photocatalytic Properties of Single-Crystalline CuMoO<sub>4</sub> Nanorods**

SHAKIR Imran, SHAHID Muhammad, 강대준(BK21 Physics Research Division, Institute of Basic Sciences, Department of Energy Science, SKKU Advanced Institute of Nanotechnology, Sungkyunkwan University)

**Dp-I-041\***

**The effects of Pd in TiZrNi quasicrystals as a potential use of hydrogen storage application** / KIM jaeyong, CHOI Soo-bin, LEE Sang-hwa, KIM Euikwoun, LEE Jungmin, LEE Sangyong(Department of Physics, Hanyang University)

**Dp-I-042\***

**Effect of Mn doping and leakage current characteristics of thickness-controlled lead-free  $(K_{0.5}Na_{0.5})(Mn_xNb_{1-x})O_3$  thin films** / 김일원, 이선영, 석해진, 채송아, 김진수(울산대), 안창원, 황학인(전자부품연구원, 융합부품연구부, 성남 463-816), 배세환(동아대)

**Dp-I-043**

**Photovoltaic effect in the  $(K_{0.5}Na_{0.5})NbO_3$  and  $(K_{0.48}Na_{0.48}Li_{0.04})(Nb_{0.995}Mn_{0.005})O_3$  thin films** / 박정민, 석해진, 이선영, 김주성, 김진수(울산대), 안창원(전자부품연구원, 융합부품연구부), 진병문(동의대), 김일원(울산대)

**Dp-I-044\***

**Control of the electrical conductivity of  $KH_2PO_4$  by proton-beam irradiation** / LEE Cheol Eui, KWEON Jin Jung, LEE Kyu Won(Korea University, Department of Physics and Institute for Nano Science), LEE Kwang-Sei(Inje University, Department of Nano Systems Engineering), NOH S. J., KIM H. S.(Dankook University, Department of Applied Physics)

**Dp-I-045\***

**Comparison of the Dynamic Cluster Approximation with the Cellular Dynamical Mean-field Theory: Application to the One-dimensional Hubbard Model** / 고아라, 전건상(서울대)

**Dp-I-046\***

**Investigation of Magnetoelectric Coupling  $ACrV_2O_7$  (A=K, Rb)**  
JEON Byung-Gu(CeNSCMR, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea), NÉNERT Gwilherm(Institut Laue-Langevin, Boîte Postale 156, 38042 Grenoble Cedex 9, France), KIM Kee Hoon(CeNSCMR, Department of Physics and Astronomy, Seoul National University, Seoul 151-747, Korea)

**Dp-I-047\***

**Ferroelectric properties of Zn and Mn co-doped  $BiFeO_3$  thin films** / LEE M.H, PARK J.S, KIM D.J, CHO H.J, SUNG Y.S, KIM M.-H(School of Nano & Advanced Mat. Eng., Changwon Nat'l Univ., Gyeongnam 641-773,



Korea), CHO J.H.(Research Institute of Basic Sciences, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), KIM W.-J, DO D, KIM S.S, CHOI H.I.(Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), CHOI B.C (Department of Physics, Pukyong Nat'l Univ., Busan 608-737, Korea), SONG T.K (School of Nano & Advanced Mat. Eng., Changwon Nat'l Univ., Gyeongnam 641-773, Korea)

#### Dp-I-048\*

#### **Crystal structure and dielectric properties of Barium Titanate ( $\text{BaTiO}_3$ ) - Barium Ferrite( $\text{BaFe}_{12}\text{O}_{19}$ ) composite materials / KIM D. J.**

(School of Nano & Advanced Materials Engineering, Changwon National University, Gyeongnam 641-773, Korea), LEE M. H., PARK J. S., CHO H. J. (School of Nano & Advanced Materials Engineering, Changwon National University, Gyeongnam 641-773, Korea), SUNG Y. S., KIM M.-H.(School of Nano & Advanced Materials Engineering, Changwon National University, Gyeongnam 641-773, Korea), CHO J. H.(Research Institute of Basic Sciences, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), DO D., KIM S. S(Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), CHOI B. C. (Department of Physics, Pukyong Nat'l Univ., Busan 608-737, Korea), SONG T. K.(School of Nano & Advanced Materials Engineering, Changwon National University, Gyeongnam 641-773, Korea)

#### Dp-I-049

**Dielectric and piezoelectric properties of  $(\text{Na}_{0.88}\text{Li}_{0.12})(\text{Nb}_{1-x}\text{Ta}_x)\text{O}_3$  ceramics / CHO J. H., KIM D. J., CHO H. J., PARK J. S., LEE M. H., SUNG Y. S., KIM M.-H., SONG T. K.**(School of Nano & Advanced Materials Engineering, Changwon National University), KIM S. S.(Department of Physics, Changwon National University), CHOI B. C.(Department of Physics, Pukyong National University)

#### Dp-I-050\*

**Commensurate-Incommensurate Transition in  $^4\text{He}/\text{H}_2$  Monolayer Adsorbed on a  $\text{C}_{60}$  Fullerene / 신현덕, 권용경(건국대)**

#### Dp-I-051

**화학 용액 증착법으로 제조한  $(\text{Bi}_{0.9}\text{Dy}_{0.1})(\text{Fe}_{0.975}\text{A}_{0.025})\text{O}_{3-\delta}$  ( $\text{A}=\text{Mn}^{2+}, \text{Co}^{2+}, \text{Cr}^{3+}, \text{Ni}^{2+}, \text{Ti}^{4+}$ ) 박막의 특성 / 김상수, 김은선, 김진원, 김가현, 배유리, 도달현(창원대)**

#### Dp-I-052

**Electronic structure of  $\text{CeB}_4$  / KIM Junwon, KIM Kyoo, CHOI Hongchul, MIN B. I.**(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, KOREA)

#### Dp-I-053\*

**ARPES study on Quantum Critical Point of  $\text{NiS}_{2-x}\text{Sex}$**

한가람, 김창영, 김철, 송동준, 김용관, 정원식, 고윤영, 경원식, 최환영, 김범영, 부영건(연세대)

#### Dp-I-054

**Nd, Mn이 첨가된 BiFeO<sub>3</sub>박막의 전기적 특성** / 김상수, 배유리, 김진원, 김가현, 김은선, 도달현(창원대)

#### Dp-I-055

**Observation of Kink in the Electronic Structure of Sr<sub>2-x</sub>La<sub>x</sub>RhO<sub>4</sub>**

경원식, 김철, 송동준, 김용관, 정원식, 고윤영, 한가람, 최환영, 김범영, 부영건, 김창영(연세대), HIROSHI Eisaki, YOSHIDA Yoshiyuki(Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology)

#### Dp-I-056\*

**Effects of Cu, Bi substitution on Curie temperature and ferroelectric properties in BaTiO<sub>3</sub> lead-free ceramics** / CHO H.J, LEE M.H, PARK J.S, KIM D.J, SUNG Y.S, KIM M.-H(School of Nano & Advanced Materials Engineering, Changwon National University., Gyeongnam 641-773, Korea), CHO J.H(Research Institute of Basic Sciences, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), KIM S.S, DO D(Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), SONG T.K(School of Nano & Advanced Materials Engineering, Changwon National University., Gyeongnam 641-773, Korea)

#### Dp-I-057

**Intense green and red emission in wide-bandgap SrZrO<sub>3</sub> and SrHfO<sub>3</sub>** / PARK J. W., LEE D. J., KIM D. H., LEE Y. S(Department of physics, Soongsil University, Seoul 157-760, Republic of Korea)

#### Dp-I-058

**Local Structure of V(IV) Ions in V<sub>2</sub>O<sub>5</sub>-B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> Glasses** / 노태호, 김영훈, 강재필, 서용문, 최덕, 송승기(명지대)

#### Dp-I-059

**Multiferroic Properties of Chemically Modified BiFeO<sub>3</sub> Thin Films Grown by Pulsed Laser Deposition** / 김상수, 도달현, 배유리, 김은선, 김가현, 김진원, 이명환, 송태권(창원대)

#### Dp-I-060\*

**Thickness dependence electrical property for the bismuth ferrite thin film** / CHOI H. I.(Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), LEE M. H.(School of Nano & Advanced Mat. Eng., Changwon Nat'l Univ., Gyeongnam 641-773, Korea), KIM J. W., DO D, KIM S. S., KIM W. J.(Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), PARK J. S., KIM D. J., CHO H. J., SONG T. K.(School of Nano & Advanced Mat. Eng., Changwon Nat'l Univ., Gyeongnam 641-773, Korea)

**Dp-I-061**

**Dy, Mn을 첨가한 BiFeO<sub>3</sub> 박막의 성장과 전기적 특성** / 김상수, 김가현, 김진원, 김은선, 배유리, 도달현(창원대)

**Dp-I-062**

**Optical Properties of NiO<sub>x</sub> Thin Films** / HA Taewoo, LEE Kimoon, IM Seongil, KIM Jae Hoon(Institute of Physics and Applied Physics, Department of Physics, Yonsei University, Seoul 120-749 Korea)

**Dp-I-063\***

**Phase Transitions of Ionic Hubbard Model at Finite Temperatures**  
김아람, 전건상(서울대)

**Dp-I-064\***

**Electrical properties of chemical solution deposited Bi<sub>0.9</sub>A<sub>0.1</sub>Fe<sub>0.975</sub>Co<sub>0.025</sub>O<sub>3-δ</sub> (A=Dy, La, Gd) thin films** / 김상수, 김진원, 김가현, 김은선, 배유리, 도달현(창원대)

**Dp-I-065**

**Giant Strain in Textured Bi<sub>0.5</sub>(Na, K)<sub>0.5</sub>TiO<sub>3</sub>-BiAlO<sub>3</sub> Ceramics Fabricated by Reactive Templated Grain Growth Method** / 안창원(전자부품연구원, 융합부품연구부), 장기봉, ULLAH Aman, 최강호(울산대), 이대수, 정순중(한국전기연구원), 이재신(울산대), 황학인(전자부품연구원, 융합부품연구부), 김일원(울산대)

**Dp-I-066**

**Physical Properties of Transition Metal doped K<sub>3-x</sub>Na<sub>x</sub>Li<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> Ferroelectric Ceramics** / 전병익, 박준건, 김영환, 이종림(한국과학영재고), 최병춘(부경대)

**Dp-I-067**

**Domain switching에 의한 BiFeO<sub>3</sub> 박막의 응력과 domain orientation 분포의 변화** / 정진석, 이응구, 박정현(숭실대), 김태현(서울대)

**Dp-I-068\***

**Photoemission studies on electron doped cuprate Pr<sub>0.85</sub>LaCe<sub>0.15</sub>CuO<sub>4</sub> : revisiting the chemical pressure effect** / 부영건, 송동준, 경원식, 박승룡, 임춘식, 김철, 김용관, 최성균, 정원식, 고윤영, 최환영, 한가람, 김창영(연세대), YOSHIDA Yoshiyuki, EISAKI Hirosh(National Institute of Advanced Industrial Science and Technology), LU D. H., SHEN Z. X.(Department of Physics, Applied Physics and Stanford Synchrotron Radiation Laboratory)

**Dp-I-069**

**Effects of TiO<sub>2</sub> Buffer Layer on The Electric and Optical Properties of VO<sub>2</sub> Films on Glass Substrates Using Pulsed Laser Deposition**

DHO Joonghoe, LI Jian, WANG Chaojun(경북대)

**Dp-I-070\***

**Pressure Study On The Antiferromagnet CeAuSb<sub>2</sub> / SEO. Soonbeom**  
(Department of Physics, Sungkyunkwan University, Suwon 440-746, South Korea), **LEE. Hanoh**(Los Alamos National Laboratory, Los Alamos 87545, USA), **FISK. Z.**(Department of Physics and Astronomy, University of California at Irvine, CA 92697, USA), **THOMPSON. J.D.**(Los Alamos National Laboratory, Los Alamos 87545, USA), **PARK. Tuson**(Department of Physics, Sungkyunkwan University, Suwon 440-746, South Korea)

**Dp-I-071\***

**Development of capacitive dilatometer for ultra precision thermal expansion measurements / 최성일(성균관대)**

**Dp-I-072**

**Temperature evolution of Fermi surface in heavy fermion system CeIrIn<sub>5</sub> / 최홍철, 심지훈, 민병일(포항공대)**

**Dp-I-073**

**(1-x)BiFeO<sub>3</sub>-xDyMnO<sub>3</sub> (x=0~0.1) 고용체 박막의 구조와 전기적 특성 변화 / 김상수, 조경미, 도달현, 김진원, 김가현, 김은선, 배유리(창원대)**

**Dp-I-074**

**Observation of Ferroelectric Domain of Electronic Ferroelectric LuFe<sub>2</sub>O<sub>4</sub> Single Crystal by using EFM(Electrostatic Force Microscopy)**  
YANG Il Kyu, JEONG Yoon Hee(POSTECH, Department of Physics)

**Dp-I-075**

**Sinusoidal Scanning for High Speed Scanning Probe Microscopy**  
LEE S., POLOMOFF N. A., HUEY B. D.(Division of Physical Metrology, Korea Research Institute of Standards and Science)

**Dp-I-076\***

**Effects of Bi(Me)O<sub>3</sub> Substitution on ferroelectric transition temperature and piezoelectric properties in PLZT ceramics / PARK J.S, LEE M.H, CHO H.J, KIM D.J, SUNG Y.S, KIM M.-H**(School of Nano & Advanced Materials Engineering, Changwon National University., Gyeongnam 641-773, Korea), **CHO J.H**(Research Institute of Basic Sciences, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), **KIM S.S, DO D**(Department of Physics, Changwon Nat'l Univ., Gyeongnam 641-773, Korea), **CHOI B.C**(Department of Physics, Pukyong Nat'l Univ., Busan 608-737, Korea), **SONG T.K**(School of Nano & Advanced Materials Engineering, Changwon National University., Gyeongnam 641-773, Korea)

**Dp-I-077**

특이한 마디 구조를 갖는 초전도체에서의 불순물 효과 / 정현희, 김희상(숭실대)

**Dp-I-078**

**Study on a Possible Hexatic Order in Two-dimensional Vortex Liquids in High Temperature Superconductors** / PARK Hyunjoon, YEO Joonhyun(Konkuk Univ.)

**Dp-I-079**

**Temperature dependent APRES study on NbSe<sub>2</sub>** / 고윤영, 정원식, 김범영, 김용관, 한가람, 김철, 송동준, 경원식, 최환영, 부영건, 김창영(연세대)

**Dp-I-080\***

**Line Shape Analysis of ARPES Data on LiFeAs** / 김범영, 김용관, 김철, 송동준, 정원식, 고윤영, 경원식, 한가람, 최환영, 부영건, 김창영(연세대)

**Dp-I-081\***

**FeAs thin films on LaAlO<sub>3</sub>: MBE growth and properties**

DUONG VanThiet, HWANG Younghun, DANG DucDung, SHIN Yooleemi, DUONG AnhTuan, CHO Sunglae(울산대)

**Dp-I-082\***

**Gd와 Nb로 이루어진 두겹층의 근접효과** / 차국린, 정동호(서울대)

**Dp-I-083\***

**Single Crystal Growth Of SuperConductor NaFeAs And It's Physical Properties** / 민경임, 송유장, 홍종범(성균관대), 이규준, 정명화(서강대), 권용성(성균관대)

**Dp-I-084\***

**Polatrization Dependence of Detwinned Ba122 ARPES Data**

정원식, 김창영, 김철, 송동준, 김용관, 고윤영, 경원식, 한가람, 최환영, 김범영, 부영건(연세대)

**Dp-I-085**

**Comparative study of the flux pinning properties of SmFeAsO<sub>0.85</sub> and Fe<sub>2</sub>As<sub>2</sub>Ca<sub>4</sub>(Mg,Ti)<sub>3</sub>O<sub>y</sub> iron-based high T<sub>c</sub> superconductors synthesized by different methods** / AHMAD dawood, PARK In Suk, KIM G C(Pusan National University, Department of Physics), REN Zhi-An(Institute of Physics Chinese Academy of Sciences, National Laboratory for Superconductivity), KIM Y C(Pusan National University, Department of Physics)

**Dp-I-086\***

**Evidence For Nodes In The Overdoped Ba(Fe<sub>0.9</sub>Co<sub>0.1</sub>)<sub>2</sub>As<sub>2</sub>** / JU Sol,

JANG D.J., YANG Z.(Sungkyunkwan University), GOFRYK K.(Los Alamos National Laboratory), HONG J.B., HAN J.H., KWON Y.S.(Sungkyunkwan University), VEKHTER I.(Louisiana State University), RONNING F., THOMPSON J.D.(Los Alamos National Laboratory), PARK T.(Sungkyunkwan University)

**Dp-I-087\***

**Distribution Analysis of Local Current Density in Patterned YBCO Coated Conductors using Low-temperature Scanning Laser Microscopy** / PARK Sang Kook, CHO Bo Ram, RI Hyeong-Cheol(경북대)

**Dp-I-088**

**Magnetic properties of aligned high- $T_c$  superconductor( $Yb_{0.5}Y_{0.5}Ba_2Cu_3O_7$ )** / PARK in sok, AHMAD Dawood, KIM G C, KIM Y C(Pusan National University, Department of Physics)

**Dp-I-089\***

**Pseudo Gap Study Of Electron Doped Cuprates By Infra-red Spectroscopy** / 최환영, 송동준, 최규진, 김철, 김용관, 정원식, 고윤영, 경원식, 한가람, 김범영, 부영건, 홍태윤, 김재훈, 김창영(연세대), HIROSHI Eisaki(Advanced Industrial Science and Technology, Tsukuba, Japan)

**Dp-I-090**

**Distribution Analysis on Current Transport in Striated YBCO Coated Conductors using Low-temperature Scanning Hall Probe Microscopy** / CHO Bo Ram, PARK Sang Kook, RI Hyeong-Cheol(Kyungpook National University)

2010년 10월 20일 수요일 13:00 - 15:00

장소: 스키하우스

## Ep-I-001\*

**Studies of Doping Effects on The Energy Band of Organic Single Crystal Semiconductor TMTSF(Tetramethyltetraselenafulvalene)**

PARK Eul-doo, LEE I.J(Department of Physics, Chonbuk National University)

## Ep-I-002

**Graphite Oxide와 NaOH의 반응으로 인한 전기 전도도 변화 관찰 /** 성승우, 유민철, 이인열, 김길호(성균관대)

## Ep-I-003\*

**Acoustic Superlens with a  $\rho$ -negative Metamaterial /** LEE Seung Hwan, PARK Jong Jin(Institute of Physics and Applied Physics, Yonsei University), PARK Choon Mahn(AEE Center, Anyang University), SEO Yong Mun(Dept. of Physics, Myongji University), LEE Sam Hyeon, KIM Chul Koo(Institute of Physics and Applied Physics, Yonsei University)

## Ep-I-004\*

**The Realization of the Acoustic Surface Plasmons on a  $\rho$ -negative Metamaterial Slab /** PARK Jong Jin, LEE Seung Hwan(Institute of Physics and Applied Physics, Yonsei University), PARK Choon Mahn(AEE Center, Anyang University), SEO Yong Mun(Dept. of Physics, Myongji University), LEE Sam Hyeon, KIM Chul Koo(Institute of Physics and Applied Physics, Yonsei University)

## Ep-I-005\*

**피사체 크기 측정용 원거리 육안검사 장비개발 /** 박세휘, 김석원(울산대, 물리과), 하양(폭스텍)

## Ep-I-006

**Synthesis and Electrochemical Properties of Ti-doped LiFePO<sub>4</sub> Powders /** 홍경수, 하명규, 이진화, 정의덕(한국기초과학지원연구원 하이테크소재연구부), 양호순(부산대)

## Ep-I-007

**Synthesis and Red Luminescence of Sm<sup>3+</sup>-doped Strontium Sulfide Phosphors /** 홍경수, 하명규, 이진화, 정의덕(한국기초과학지원연구원 하이테크소재연구부), 양호순(부산대)

## Ep-I-008

**Lenard effect in boiling water /** PARK Bae-Sig, KIM Keun Mook, KANG

**Ep-I-009**

**Thermoluminescence of Sapphire / KIM Taekyu**(Jeonju National University of Education, Department of Science Education)

**Ep-I-010**

**Synthesis and Luminescence Study of  $\text{Sm}^{3+}$ -doped  $\text{CaTiO}_3$  Phosphors**

홍경수, 하명규, 이진화, 정의덕(한국기초과학지원연구원 하이테크소재연구부), 양호순(부산대)

**Ep-I-011**

**Synthesis and Red Luminescence of  $\text{Pr}^{3+}$ -doped  $\text{CaTiO}_3$  Phosphor under Ultraviolet Excitation / 홍경수, 하명규, 이진화, 정의덕**(한국기초과학지원연구원 하이테크소재연구부), 양호순(부산대)

**Ep-I-012**

**Evaluation of Thermal Transfer Standard Using a Josephson Sampling Voltmeter / 김문석, 김규태, 김완섭, 정연욱, 권성원, 김단비**(한국표준과학연구원)

**Ep-I-013**

**비표면적 순회평가(Round Robin Test) 결과 / 최병일, 김종철, 이상봉**(한국표준과학연구원)

**Ep-I-014**

**Raman spectroscopy 이용한 copper(II)-phthalocyanine(Cu-Pc)의 성장 방향 결정 특성에 관한 연구 / 김현숙, 강상백, 윤성현, 윤창선, 유수창**(군산대), 김미정(주)리뉴-에너지), 차덕준(군산대)

**Ep-I-015**

**Lenard effect in ultrasonic mist making / PARK Bae-Sig, KIM Keun Mook, KANG Sung-Min**(The University of Suwon, Dept. of Physics)

**Ep-I-016**

**Photophysical Properties of Highly Efficient Red-Emitting  $\text{CaTiO}_3:\text{Eu}^{3+}$  Phosphor under near Ultra-violet Excitation**

홍경수, 하명규, 이진화, 정의덕(한국기초과학지원연구원 하이테크소재연구부), 양호순(부산대)

**Ep-I-017**

**Ab initio Study of Adsorption Properties of Acetylsalicylic Acid on Single-walled Carbon and Boron Nitride Nanotubes / KWON Dae-Gyeon, KIM Gunn, KWON Young-Kyun**(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)



**Ep-I-018\*****Synthesis of the Super Bundled Thin Multi-Walled Carbon Nanotubes**

KIM bawl, LEE yeon ja, NOH jin woo(School of Electrical Engineering and Department of Micro/Nano Systems, Korea University, Seoul 136-713, Korea)

**Ep-I-019\*****Detection of mass variation on the micro mechanical resonator using dynamic flexural measurement /**

KIM Hakseong, YUN Hoyeol, JUNG Unseok, YU Nari, LEE SangWook(Division of Quantum Phases and Devices, School of Physics, Konkuk University)

**Ep-I-020\*****Detachment Rate measurement of DNA Mica-assisted Growth (MAG) Nanostructures /**

HWANG Sieun, LEE Junwye, AMIN Rashid, PARK Sungha(Sungkyunkwan University, Sungkyunkwan Advanced Institute of Nanotechnology (SAINT))

**Ep-I-021\*** **$\text{Er}^{3+}$ 와  $\text{Yb}^{3+}$ 이온이 첨가된  $\text{ZrO}_2$  나노형광체의 upconversion 형광특성연구 /**

노현미(동익대), 정중현(부경대), 최혜영, 김중환(동익대)

**Ep-I-022\*****Annealing Effects of Optical and Electrical Properties of N<sup>+</sup>-Implanted ZnO Nanorods /**

JIN Zhenlan(Division of Science Education and Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Korea), PARK C.-I.(Department of Physics and Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Korea), KIM B.-H.(Department of Nanobio Materials and Electronics, Gwangju Institute of Science and Technology, Gwanju 500-712, Korea), KWAK C.-H., SEO S.-Y., KIM S.-H. (Department of Materials Science and Engineering, Pohang University of Science and Technology, Pohang 790-784, Korea), HAN S.-W.(Division of Science Education and Institute of Fusion Science, Chonbuk National University, Jeonju 561-756, Korea)

**Ep-I-023\*****전기영동 방법을 이용한 나노 SnO2 입자의 나노 전극 부착 및 전기적 측정 /**

곽영렬, 이인열, 방성우, BINH Le Huy, WANG Jianwei, MAAZ K, NHUNG Tran Hong, LIM Cheng Guan, WANG Jun, LI Lijun, SULTANA Ishrat, 김길호(성균관대)

**Ep-I-024\*****전자빔 조사에 의한  $\text{V}_2\text{O}_5$  박막의 구조적, 광학적 특성 조사 /**

김인구, 오은지, 강만일, 김석원(울산대), 노태종, 류지욱(공주대)

**Ep-I-025\*****Hydrogen Adsorption on Various Transition-Metal-Atom-Contained**

**Molecular Structures: First-Principles Study** / LEE Changsun, KANG Seoung-Hun, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

**Ep-I-026\***

**Fabrication of a DNA Scaffold Cross-tile Grown on Mica Substrate and in Free Solution** / AMIN Rashid(Sungkyunkwan University, Sungkyunkwan Advanced Institute of Nanotechnology (SAINT)), AHN Sang Jung(Korea Research Institute of Standards and Science), KIM Byeonghoon(Sungkyunkwan University, Sungkyunkwan Advanced Institute of Nanotechnology (SAINT)), KULKARNI Atul(Sungkyunkwan University, School of Mechanical Engineering), LEE Junweye(Sungkyunkwan University, Sungkyunkwan Advanced Institute of Nanotechnology (SAINT)), VEERAPANDIAN Murugan, YUN Kyusik(Kyungwon University, College of Bionanotechnology), KIM Taesung(Sungkyunkwan University, School of Mechanical Engineering), LABEAN Thomas H.(Duke University, Departments of Computer Science, Chemistry, and Biomedical Engineering), PARK Sung Ha(Sungkyunkwan University, Sungkyunkwan Advanced Institute of Nanotechnology (SAINT))

**Ep-I-027\***

**실리콘 나노콘 구조체 제조 및 반사방지효과 연구** / 이동현, 이원우, 이정민, 박원일(한양대)

**Ep-I-028\***

**N-type Doping of Single-Walled Carbon Nanotubes using TMPD Organic Molecules** / HWANG Doo Hee, KOIZHAIGANOVA Raushan, YUN Ki Nam, JIN xio zhan, KIM Yonha, DETTLAFF-WEGLIKOWSKA Ursula, KIM Gyu Tae, ROTH Siegmard(School of Electrical Engineering and Department of Micro/Nano Systems, Korea University, Seoul 136-713, Korea)

**Ep-I-029\***

**Focused Beam Hard X-ray Lithography Processes for 100 nm Scale Feature Size** / LEE Su Yong, CHO In Hwa, KIM Jae Myung(School of Materials Science and Engineering, Gwangju Institute of Science and Technology), KANG Hyon Chol(Department of Advanced Materials Engineering and BK21 Education Center of Mould Technology for Advanced Materials and Parts, Chosun University), NOH Do Young(School of Materials Science and Engineering, Gwangju Institute of Science and Technology)

**Ep-I-030\***

**A Phase Diagram of Artificial DNA Nanostructure Analyzed by Mica Assisted Grown Crystals** / LEE Junweye, HWANG Sieun, AMIN Rashid, KIM Byeonghoon, PARK Sung Ha(Sungkyunkwan Advanced Institute of Nanotechnology, Sungkyunkwan university, BK21 Division and Department of Physics, Sungkyunkwan University)

**Ep-I-031\***

**The Molecular Adsorption of Caffeine and Nicotine on Single-Walled Carbon Nanotubes from First Principles** / LEE Hyung-Jun, KIM Gunn, KWON Young-Kyun(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

**Ep-I-032\***

**Electron Irradiation of PCBM on TiO<sub>2</sub> Nanoparticle Electrodes: Improved Performance in Photoelectrochemical Cells** / CHO Sung Oh, YOO Seung Hwa(KAIST 원자력 및 양자공학과), CHOI Jae Yeong(KSA of KAIST)

**Ep-I-033\***

**Solvothermal Synthesis and Spectroscopy of LaGaO<sub>3</sub>: Sm<sup>3+</sup> Nanophosphors** / FARZANA Siddique, CHUNG Jong Won, JEONG Jung Hyun(부경대)

**Ep-I-034\***

**Copper Ion Coordination on an Artificial 1D DNA Nano-track**

KIM Byeonghoon, AMIN Rashid(Sungkyunkwan University, Department of Physics and Sungkyunkwan Advanced Institute of Nanotechnology (SAINT)), KULKARNI Atul(Sungkyunkwan University, School of Mechanical Engineering), LEE Junwye(Sungkyunkwan University, Department of Physics and Sungkyunkwan Advanced Institute of Nanotechnology (SAINT)), KIM Sunho, ROH Yonghan(Sungkyunkwan University, SKKU Advanced Institute of Nanotechnology (SAINT) and School of Information and Communication Engineering), KIM Taesung(Sungkyunkwan University, School of Mechanical Engineering), PARK Sung Ha(Sungkyunkwan University, Department of Physics and Sungkyunkwan Advanced Institute of Nanotechnology (SAINT))

**Ep-I-035\***

**Effect of Thermal and Acid Purifications on the Characteristics of Transparent Conductive Films of Single-Walled Carbon Nanotubes** LEE seungho, GOAK Jeungchoon, LEE Chungyeol, LEE Naesung(세종대)

**Ep-I-036\***

**후 열처리에 따른 Nanorod구조 V<sub>2</sub>O<sub>5</sub> 박막의 특성조사** / 오은지, 김인구, 강만일, 김석원(울산대)

**Ep-I-037\***

**Controlling the Diameter of Single-Walled Carbon Nanotube Synthesized by Arc-Discharge** / LIU Na, JANG Dong Kyu(School of Electrical Engineering and Department of Micro/Nano Systems, Korea University, Seoul 136-713, Korea)

Ep-I-038\*

**Up and down-conversion luminescence behavior of  $\text{LiYO}_2$ :  $\text{Yb}^{3+}/\text{Tm}^{3+}$  nanophosphors** / CHUNG Jong Won, JEONG Jung Hyun(부경대), JANG Kiwan, LEE Ho Sueb(창원대), YI Soung Soo(신라대)

Ep-I-039\*

자기 조립된 나노 구슬 단분자막을 이용한 산화아연 나노튜브와 나노튜브-나노막대 하이브리드 네트워크구조 합성 / 이재석, 이동현, 박원일(한양대)

Ep-I-040\*

**Calcination Process Dependence of Deformation Field Distribution in Zeolite Crystal** / CHA Wonsuk, PARK Hyun-jun, SONG SangHoon (Department of Physics and Interdisciplinary Program of Integrated Biotechnology, Sogang University), JEONG Nak Cheon, YOON Kyung Byung (Department of Chemistry, Sogang University), HARDER Ross(Advanced Photon Source, Argonne National Laboratory, USA), ROBINSON Ian K. (Department of Physics and Astronomy, University College London, UK), KIM Hyunjung (Department of Physics and Interdisciplinary Program of Integrated Biotechnology, Sogang University)

Ep-I-041\*

**Why is  $\text{Ca}_{32}$  enclosing  $\text{C}_{60}$  Magic Cluster?** / KOO Bon-Gil(Department of Physics and Research Institute for Basic Sciences, Kyung Hee University), WOO Sungjong(Korea Institute for Advanced Study), KWON Young-Kyun (Department of Physics and Research Institute for Basic Sciences, Kyung Hee University)

Ep-I-042

**$\text{SnO}_2$  박막의 이상 형상에 관한 연구** / 정진, 이봉주(조선대)

Ep-I-044

**Structural and Photoluminescent Property of  $\text{Eu}^{3+}$  ion activated  $\text{Y}_6\text{W}_x\text{Mo}_{(1-x)}\text{O}_{12}$  Nanocrystalline** / LI Huaiyong, CHUNG Jong Won(부경대), YANG Hyun Kyoung(동익대), JEONG Jung Hyun(부경대), JANG Kiwan, LEE Ho Sueb(창원대), YI Soung Soo(신라대)

Ep-I-045

**$\text{SiO}_2$ -coated carbon nanotube/polymer composite film의 유전특성** 김진영, 정동근(성균관대), 유세기(한국외국어대)

Ep-I-046

**Preparation and Characterization of monodispersed  $\text{TiO}_2$  nanocrystals by two phase approach** / QU Xuesong(부경대), YANG Hyun Kyoung(동익대), CHOI Byung Chun, JEONG Jung Hyun(부경대)

**Ep-I-047**

**Formation and Photoluminescence of Eu-Doped  $\text{Y}_2\text{O}_3\text{-H}_3\text{BO}_3$  Powders by Mechanical Alloying** / 공현식, 김현구, 송보미(조선대)

**Ep-I-048**

**Fabrication of  $\text{Li}_4\text{Ti}_5\text{O}_{12}$  microspheres for high performance lithium ion batteries** / 문병기, 정홍채, 박진영, G. Seeta RamaRaju, 정중현(부경대), 김중환, 최혜영(동의대)

**Ep-I-049**

**Doping Effect on the Transport Properties of Twist Bilayer Graphene**  
CHU Seung Wan(Department of Physics and Astronomy, Seoul National University), KIM Young Wook(Department of Physics, Pohang University of Science and Technology), LEE Sang Wook(Department of Physics, Konkuk University), KIM Jun Sung(Department of Physics, Pohang University of Science and Technology), PARK Yung Woo(Department of Physics and Astronomy, Seoul National University)

**Ep-I-050**

**Intaglio nanotemplate using atomic force microscopy** / 손종역, 신윤석, 박윤철, 송승우, 신영한(포항공대), 김철환, 조진형(부산대), 장현명(포항공대)

**Ep-I-051**

**Ni Nanowires Grown from Ni Thin Films on Si(100) by Using Thermal Annealing** / 주미연, 김진교(경희대)

**Ep-I-052**

**Preparation of mesoporous and monodisperse  $\text{ZrO}_2$  spheres as SOFC materials** / 문병기, 박진영, 정홍채, G. Seeta RamaRaju, 정중현(부경대), 김중환(동의대)

**Ep-I-053**

**Electrochemical Properties of Vertically Aligned Carbon Nanotube Electrode** / PARK Serin, CHANG Hyunju(NanoBio Fusion Research Center, Korea Research Institute of Chemical Technology), KANG Young-Gu(Device Materials Research Center, Korea Research Institute of Chemical Technology), LEE Jeong-O(NanoBio Fusion Research Center, Korea Research Institute of Chemical Technology)

**Ep-I-054**

**Giant superparamagnetic nanocomposites using ferritin** / JUNG J.H., HYUN Y.H., PARK S. Y., LEE Y. P.(Quantum Photonic Science Research Center and Department of Physics, Hanyang University), SHIN M. K., KIM S. J.(Center for Bio-Artificial Muscle and Department of Biomedical Engineering,

**Ep-I-055**

**Towards the realization of piezoelectric and dielectric driven nanowire resonators** / OH Byeong Gyun, KIM Young Duck, CHO Myung Rae(서울대)

**Ep-I-056**

**Carbon nanotube Schottky transistor sensor for nerve agent detection** / KWAK Jun-Hyuk, AHN Tae-Young, JUNG Young Sik, CHANG Hyunju(Korea Research Institute of Chemical Technology), CHOI Sun Kyung, SEO Byung Il(Agency for Defense Development), LEE Jeong-O(Korea Research Institute of Chemical Technology)

**Ep-I-057**

**Synthesis and upconversion luminescence properties of  $\text{LaGaO}_3$  :  $\text{Yb}^{3+}$ ,  $\text{Tm}^{3+}$  phosphors by high energy ball milling and solid state reaction** / YANG Hyun Kyoung(동익대), MOON Byung Kee, CHOI Byung Chun, JEONG Jung Hyun(부경대), KIM Jung Hwan(동익대)

**Ep-I-058**

**$\text{Gd}^{3+}$  sensitization effect on the luminescence properties of  $\text{Tb}^{3+}$  activated  $\text{Ca}_2\text{GdSi}_6\text{O}_{26}$  nanophosphors** / 문병기, G. Seeta RamaRaju, 박진영, 정홍채, 정중현(부경대)

**Ep-I-059**

**Fabrication of Cobalt Ferrite Nanoparticles and Au/Ni/Au Nanowires** / 김민수, 박영환, 곽영렬, SULTANA Ishrat, MAAZ K., 김길호(성균관대)

**Ep-I-060**

**Effects of Zn Content and Film Thickness on the Refractive Index of Zn-In-Sn-O film for Optical Waveguide-based Devices**  
허기석(한국생산기술연구원 나노기술집적센터), 차상준, 우정주(전남대)

**Ep-I-061**

**낮은 온도 조건에서의 CdSe 양자점 형광체의 합성과 광학적 특성 연구**  
김재호, 문희송, 손상호(경북대)

**Ep-I-062**

**이온빔 보조 전자빔 증착방법으로 성장시킨 ZnO 박막의 특성** / 차상준, 오정표(전남대), 허기석(한국생산기술연구원 나노기술집적센터), 우정주(전남대)

**Ep-I-063**

**Magneto-Transport Properties of Few-layer Graphene Film**

HONG Sung Ju, NAM Young Woo, YOO Jung Hoon(Department of Physics and Astronomy, Seoul National University), PARK Min(Graduate School of Convergence Science and Technology, Seoul National University), PARK Hye Jin(Max Planck Institute for Solid State Research, Solid State Research), PARK Yung Woo(Department of Physics and Astronomy, Seoul National University)

Ep-I-064

**Poly vinyl alcohol (PVA) assisted growth of superparamagnetic iron oxide nanoparticles and their characteristics with powder compaction** / CHUN JUNG HWAN, KIM DONG EON(POSTECH, PHYSICS department)

2010년 10월 21일 목요일 09:00-11:00

장소: 스키하우스

**Gp-II-001\***

셀로판지를 이용한 빛의 선택적 투과와 합성 분석 및 교육적 활용

홍동혁(남외초등학교), 김석원(울산대)

**Gp-II-002**스파크갭을 이용한 교육용 소형 스파크 챔버의 제작과 우주선 뮤온 검출  
에의 활용 / 김민성(한국교원대)**Gp-II-003**2010년 개정 한국과학영재학교 교육과정의 개정 전후 비교 / 김경대, 박  
선미, 김영환, 이종림, 이승국(KAIST부설 한국과학영재학교)**Gp-II-004\***초등 예비교사들이 갖는 열의 이동관련 개념에 대한 조사 / 박경은, 윤성현  
(한국교원대)**Gp-II-005**중학교 학생들의 마찰력에 대한 개념이해를 위한 한 가지 수업전략 제안  
홍성욱(대구대)**Gp-II-006**융합시대의 소양과 소통을 위한 초등 융합과학 프로그램 개발 기초 연구  
권난주(경인교육대)**Gp-II-007**컴퓨터 기반 실험(MBL)에 의한 소리의 진행속력 측정 / 김경대, 김현벽,  
신교홍, 진가배(KAIST부설 한국과학영재학교)**Gp-II-008\***골드버그장치 제작활동 수업이 전문계 고등학교 학생들의 물리 개념 형성  
에 미치는 영향 / 최민호, 김현주(한국교원대)**Gp-II-009\***Simulation study of cosmic ray air shower detector for the COREA  
prototype system / 이슬기, 권영준, 조우람, 김흥기, 신재익(연세대)**Gp-II-010**

Dependence of Experimental Tools in Straight and Reflection

KIM Taekyu(Jeonju National University of Education, Department of Science)



Education)

**Gp-II-011**

한국의 중학교 과학 영재 학생들과 일반 학생들의 첨단과학기술에 대한 인식 및 관련지식 수준 비교 연구 / 이승우(부산대), 박수경(경남대), 김범일, 김영민(부산대)

**Gp-II-012**

RL회로 코일을 통과하는 자석의 자유낙하현상 분석 / 김소연(한국항공우주연구원), 김종복(한국교원대)

**Gp-II-013\***

예비교사의 일반물리 실험 수업에서 데이터의 신뢰도 및 타당도 교육에 대한 요구 평가 / 김정희, 윤성현(한국교원대)

2010년 10월 21일 목요일 09:00-11:00

장소: 스키하우스

**Ip-II-001\***

**Nanoresonator Enabled Hysteresis Enhancement of Terahertz Transmission through Ultra-Thin VO<sub>2</sub> Film** / 김대식, 정영균, 경지수, BERNIEN Hannes, 김규환, 김현선(파장한계광학연구센터), 김봉준, 김현택(ETRI, MIT융합기술연구팀)

**Ip-II-002**

**반도체 포화 흡수 거울을 사용한 수동 Q-스위치 이터븀 첨가 전 광섬유 고리형 레이저** / LEE Hong, KIM yong pyung(경희대)

**Ip-II-003**

**소구경 중적외선 망원경의 유령광 분석과 설계보완** / 이종웅, 김상욱(청주대)

**Ip-II-004**

**가공 효율성을 고려한 CCD 카메라 광학계의 설계** / 이종웅, 신영성(청주대)

**Ip-II-005\***

**Quantification of hybridized DNA by using fluorescence lifetime spectroscopy** / SHIN Hyo-Sup, KIM Soo Yong(KAIST, Department of Physics), KIM Sok Won(University of Ulsan, Department of Physics)

**Ip-II-006**

**X-ray reflectivity를 이용한 흡수형 극자외선 노광공정용 이진마스크의 설계** / 박성진, 강희영, 황보창권(인하대)

**Ip-II-007**

**간섭 안정화 응용 통신파장 대역 광자 쌍의 양자 간섭 실험** / 조석범(한국전자통신연구원), 노태곤(경성대)

**Ip-II-008**

**Terahertz imaging (T-ray) with a Horn Antenna** / 김근주, 김정일, 전석기, 김재홍(한국전기연구원 첨단융합물리연구센터)

**Ip-II-009**

**3군 줌 렌즈 광학계 설계 및 민감도 분석** / 윤경환, 고정휘, 김세진, 김진모, 신원진, 최봉주, 김진영, 윤성로(국민대)

**Ip-II-010**

**The Electro-Optical Properties of PZT Film by Using Interferometric**

**Method /** 김진주, 황보창권(인하대)

**Ip-II-011\***

**Ni-NTA Coating을 이용한 Single Molecule Signal 관측 및 Lifetime 변화 분석 /** 이동근, 김수용(KAIST, 물리과), 김석원(울산대, 물리과)

**Ip-II-012\***

**Measurement of Accurate Shape and Size of a Single Fluorescence Bead by Composed Laser Scanning Fluorescence Confocal Microscope /** LEE yumi, PARK sewhi(university of ulsan, department of physics), JUNG sokhyun(KAIST, department of physics), KIM sok won (university of ulsan, department of physics)

**Ip-II-013\***

**Fluorescence Correlation Spectroscopy를 이용한 형광 Bead와 Quantum Dot 관찰 /** 한예슬, 김석원(울산대)

**Ip-II-014**

**광대역 광원용 광분산기의 설계 /** 마혜준, 이승석, 신용진, 최은서(조선대)

**Ip-II-015\***

**In-Line Mach-Zender Interferometer Based on a Polarization-Maintaining Fiber /** HAN Young-Geun, KIM Hyun-Joo(Department of Physics, Hanyang University)

**Ip-II-016\***

**Simultaneous Measurement of Ambient Index and Temperature by Using a Side-Polished Fiber Bragg Grating with a Polymer Overlay /** HAN Young-Geun, JUN Na-Ram, KIM Hyun-Joo(Department of Physics, Hanyang University)

**Ip-II-017\***

**단일모드 광섬유의 클래딩에 제조된 주기적 마이크로 ridge 구조 기반의 장주기 격자 특성 /** 한영근, 박상오, 권오장(한양대)

**Ip-II-018**

**지상 무인정찰용 이중대역 적외선 광학계 설계기법 연구 /** 송천호, 전갑송, 한정수(삼성탈레스), 성기열(국방과학연구소)

**Ip-II-019\***

**사그락 간섭계와 샘플링 브래그 격자를 이용한 다파장 스위치 기술**  
한영근, 심영보(한양대)

**Ip-II-020\***

**Measurement Technique for a Single Polarization State of a Single Polarization Fiber Based on Sagnac Loop Interferometer**

HAN Young-Geun, KWON Oh-Jang(Department of Physics, Hanyang University)

**Ip-II-021**

조절이 고려된 수정체의 굴절을 분포에 대한 연구 / 강은경, 황보창권(인하대), 박성찬(단국대)

**Ip-II-022**

**NaCaPO<sub>4</sub>** 모체물질에 첨가된 **Eu(2+,3+)**에 대한 광학적 성질 / 윤제호, 장기완, 이호섭(창원대), 이성수(신라대), 정중현(부경대)

**Ip-II-023**

**GdO<sub>3</sub> : Eu<sup>3+</sup>** 나노튜브의 제조법과 광학적 특성 / 배동현, 장기완, 이호섭(창원대, 물리학과), 정중현(부경대, 물리학과), 이성수(신라대, 광전자공학과)

**Ip-II-024**

**CaLa<sub>2</sub>ZnO<sub>5</sub>** 모체물질에 첨가된 **Eu<sup>3+</sup>**에 대한 광학적 특성 / 우현주, 장기완, 이호섭(창원대), 정중현(부경대), 이성수(신라대)

**Ip-II-025\***

시분해 **UV-NSOM**의 구축과 **InGaN/GaN** 양자우물구조의 형광 소멸 시간 측정 / 박경덕(고등광기술연구소), 정현(전북대), 김용환, 임상엽, 정문석(고등광기술연구소)

**Ip-II-026**

**Synthesis and Emission properties of host sensitized reddish-orange Ca<sub>3</sub>Y<sub>2</sub>Si<sub>3</sub>O<sub>12</sub>: Sm<sup>3+</sup> phosphors** / BANDI VENGALA RAO, GRANDHE BHASKAR Kumar, JANG kiwan, LEE Ho-Sueb(Changwon National University, Department of Physics), YI Soung-Soo(Silla University, Department of Photonics), JEONG Jung-Hyun(Pukyong National University, Department of Physics)

**Ip-II-027**

외부 산란패턴을 적용한 **LGP**의 휘도분포특성 연구 / 박소희, 이승석, 마혜준, 최은서, 신용진(조선대)

**Ip-II-028**

지상 무인정찰용 이중대역 적외선 광학계 열상창 코팅 기법 연구 / 이승휴(한국전광), 송천호, 전갑송(삼성탈레스), 성기열(국방과학연구소)

**Ip-II-029**

**RG-Phosphor**를 이용한 **47" TV용 Backlight Unit** 설계 / 김진모, 고정

휘, 김세진, 윤경환, 신원진, 최봉주, 김진영, 윤성로(국민대)

### Ip-II-030

구리족 원소(Cu, Ag, Au)가 도핑된  $\text{TiO}_2$  박막의 광학적, 구조적, 광촉매 특성 / 강영비, 편민욱, 한성홍(울산대)

### Ip-II-031

경사각으로 증착한  $\text{TiO}_2$  박막의 광학적, 구조적, 광활성 특성 / 편민욱, 성승기, 황성돈, 한성홍(울산대)

### Ip-II-032

Photocatalytic performance of  $\text{TiO}_2/\text{SiO}_x/\text{TiO}_x$  multi-layer / 성승기, 한성홍(울산대)

### Ip-II-033

Temperature dependence of closed mode resonance in terahertz metamaterial superlattice / 우제훈, 김은선, 강보영, 최은영, 이현희, 김정희, 이연의, 우정원(이화여대), 홍태윤, 김재훈(연세대)

### Ip-II-034

부분적인 광자수 얽힘과 간섭계의 위상정밀도 / 김현오, 김용수, 김태수(울산대)

### Ip-II-035\*

Measurement of diffusions coefficient of single molecules using software correlator / LEE Jaeran, KIM Sok Won(University of ulsan, Department of Physics)

### Ip-II-036\*

마이켈슨 간섭계를 이용한 레이저 파장 측정계의 제작 / 이태동, 표동완(금오공대)

### Ip-II-037

Anamorphic 렌즈 시스템을 이용한 IR 보안카메라 설계 / 고정휘(국민대), 박상영, 이선규, 김영수, 오승은(삼성탈레스), 김세진, 윤경환, 윤성로(국민대)

### Ip-II-038\*

Comparative study of ultrasonic cavities in water, solid and shell configurations / KWAK Hojeong, SHIN Younghoon, YANG Juhee, MOON Songky, LEE Soo-Young, AN Kyungwon(Seoul National University)

### Ip-II-039\*

고차조화파를 이용한 단일 펄스 연엑스선 현미경 이미지 획득 / 이경환, 박승범, 박종주, 김득수, 박주윤, 이재환, 남창희(KAIST, 결맞는 엑스선 연구단(CXRC), 물리학과)

**Ip-II-040\***

**Investigation of coherent properties of the undulator x-ray sources at PLS and SPring-8 /** 노도영(광주과학기술원), 김수남, 김찬(광주과학기술원 신소재공학부), 김윤희, MARATHE SHASHIDHARHA, 함선영(광주과학기술원 광공학응용물리학과)

**Ip-II-041**

**조리개를 포함한 공간주파수필터를 통과한 가우시안 빔의 모드특성 분석**  
문희현, 송승철, 배삼용(전남대 물리학과)

**Ip-II-042\***

**PPKTP type-II를 이용한 편광 얇힘 광원 생성과 이미징 /** 이희정, 문한섭, 김현오(부산대)

**Ip-II-043**

**적외선 광학 시스템의 MTF /** 이경묵(삼성탈레스)

**Ip-II-044**

**Investigation of Q-factor in two ring resonator system using FDTD simulation /** 정윤섭, 오경환(연세대)

**Ip-II-045**

**Influence of Response Functions of Photodiode and Amplifier on Output Current of a Balanced Homodyne Detector /** 배삼용, 문희현, 송승철, 윤선현(전남대)

**Ip-II-046**

**Dual Color Imaging of Multiplex CARS Microscopy Using a Supercontinuum Source /** 최대식, 이장혁(광주과기원), 오명규, 엄태중, 강훈수(고등광기술연구소), 고도경(광주과기원, 고등광기술연구소)

**Ip-II-047\***

**Design and demonstration of long-range reflective-type optical displacement sensors /** 임재인, 김승환, 정해원, 이승훈, 김경현(인하대 물리학과)

**Ip-II-048**

**적외선 레이저와 회전다면경을 이용한 전자칠판용 광학펜의 설계와 제작**  
김나래, 이상은, 송재준, 조재홍(한남대)

**Ip-II-049**

**Photonic crystal resonator with grid structure using wet process for terahertz wave applications /** KIM Jaehong, KIM Jung-II, JEON Seok-Gy, KIM Geun-Ju(Korea Electrotechnology Research Institute, Center for

**Ip-II-050\***

**Terahertz Single-pixel Coherent Diffraction Imaging / LEE**  
Hangyeol, LEE Kang Hee, AHN Jaewook(KAIST 물리학과)

**Ip-II-051**

**Hard X-ray Phase-Contrast Microscopy of Guard Cells at PLS**

KIM Yoonhee(Graduate Program of Photonics and Applied Physics, Gwangju Institute of Science and Technology, Gwangju, Korea), KIM Chan(Department of Materials Science and Engineering, Gwangju, Korea), TAE Giyoong(Graduate Program of Photonics and Applied Physics and Department of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju, Korea), KANG Hyon Chol(Department of Advanced Materials Engineering, Chosun University, Gwangju, Korea), NOH Do Young(Graduate Program of Photonics and Applied Physics and Department of Materials Science and Engineering, Gwangju Institute of Science and Technology, Gwangju, Korea)

**Ip-II-052**

**산란광의 간섭무늬를 이용한 포토마스트 결함 실시간 검출 시스템**  
이상은, 김나래, 한병헌, 조재홍(한남대)

**Ip-II-053**

**적외선 광학계 설계 / 신원진, 고정휘, 김세진, 김진모, 윤경환, 최봉주, 김진영, 윤성로(국민대), 김영수(삼성탈레스)**

**Ip-II-054**

**플라스틱 광학렌즈에 대한 착색염료의 확산계수에 관한 연구**  
정지현, 양석준, 이신의, 최성욱, 최은정(건양대)

**Ip-II-055**

**착색렌즈의 열처리에 따른 색채 변화 / 이선애, 유소영, 채성은, 최은정(건양대)**

**Ip-II-056**

**Analysis of Nonlinear Regime of Polarizing Enhancement Cavity Using Iketa Map / AN JUNGKWUEN(물리학과), KIM DONGEON(POSTECH, 물리학과)**

**Ip-II-057**

**편광과 공간 모드를 이용한 반가산기 (Optical half adder based on Polarization and Spatial mode) / LEE Chang-Hyuck, PARK Sang-jun, LEE Hye-suk, HWANGBO Chang Kwon, NOH Jaewoo(인하대)**

**Ip-II-058\***

**Dispersion Controlling Technique of Large Mode Area Fibers**

PARK Jiyoung, CHOI Honggu, OH Kyunghwan(Yonsei University, Physics Dept.)

**Ip-II-059\***

**Tailored Terahertz Pulses by Changing Shapes of Planar Meta-materials** / 이민우, 한대훈(한국과학기술원 물리학과), 최용제, 정기훈(한국과학기술원 바이오 및 뇌공학과), 안재욱(한국과학기술원 물리학과)



2010년 10월 21일 목요일 09:00-11:00

장소: 스키하우스

**Kp-II-001\***줄겔법과 스퍼터링 법으로 제작한 **p-n junction**의 비교 분석 / 김도형, 최원진(경북대)**Kp-II-002\*****Pt/Al2O3** 박막의 특성과 **ZnO/Pt/Al2O3** 성장 / 정의완, 이영민, 이세준, 유한태, 김득영(동국대)**Kp-II-003\***

붕소(B) 및 안티몬(Sb)이 도핑된 실리콘 나노결정의 시분해 광루미네센스 특성 및 태양전지 특성 관련 연구 / 신동열, 신동희, 박재희, 김성, 최석호(경희대 응용물리학과), 김경중(한국표준과학연구원 나노소재평가센터)

**Kp-II-004\***

비정질 실리콘 태양전지에 대한 장시간 성능예측 / 유종훈, 신동희, 김지희(고려대)

**Kp-II-005****SONOS** 비휘발성 기억 소자의 쓰기 동작 시 질화막 내의 전자와 정공의 포획 특성 / 김현우, 김경원, 김태환(한양대)**Kp-II-006\*****Tapering**이 없는 **Ge** 나노선의 활성화에너지 / 김정혁, 윤현식, 문소라, 정재훈, 김유리, 송만석, 김용(동아대), GAO Qing, JAGADISH Chennupati, 강정현(The Australian National University), CHEN Zhi Gang, ZOU Jin(The University of Queensland)**Kp-II-007****TANOS** 형태의 플래쉬 메모리 소자에서 셀의 간섭 방지층에서 발생하는 전기적 현상 / 장상현, 유주형, 김현우, 김태환(한양대)**Kp-II-008\*****Memory Margin Simulation of Capacitor-less Memory in strained Si on relaxed SiGe-on-insulator n-Metal-Oxide-Semiconductor Field-effect Transistor** / CHOI Min-Ha, PARK Kyung-Jin(Division of Electronics, Communications, and Computer Engineering, Hanyang University), SHIN Mi-Hee, KIM Seong-Je, SHIM Tae-Hun, PARK Jea-Gun(Advanced Semiconductor Materials & Devices Development Center, Hanyang University)

**Kp-II-009**

**Fringing field** 효과를 이용한 금속 공간층을 갖는 **metal-oxide-nitride-oxide-silicon** 낸드플래시 기억소자의 전기적 특성 / 성호 김, 주형 유, 태환 김(한양대)

**Kp-II-010**

**Formation of a Co-Ge-Si-O Mixed Layer as Charge Storage Node in MOS Memory Structure** / HAN Moonsep, KIM HyunSeung, JANG Seunghun, HANG Dongwoo(Department of Physics, University of Seoul.)

**Kp-II-011\***

**Flexible** 기판에 증착된 **Ga-doped ZnO** 박막의 광학적 · 전기적 특성 연구 / 이진용, 이영민(동국대), 이세준(동국대 양자기능반도체연구센터), 정의완, 고지현, 김득영(동국대 반도체학과)

**Kp-II-012\***

이온빔 스퍼터링 방법으로 제작한 Si 양자점/단결정 Si 이종접합구조 태양 전지의 광기전력 효과와 발광 특성의 상호관련 연구 / 박재희, 신동희, 신동열, 최석호(경희대 응용물리학과), 김경중(한국표준과학연구원 나노소재평가센터)

**Kp-II-013**

**CBD**법에 의해 성장된 **ZnSe** 박막의 결정구조와 전기적 특성 / 홍광준(조선대)

**Kp-II-014**

**Formation of MOIOS Memory Structure Based on Ge Condensation by Thermal Oxidation of SiGeO** / HAN Dongwoo, JANG Seunghun, KIM Hyunseung, KO Changhun, HAN Moonsep(Department of Physics, University of Seoul)

**Kp-II-015\***

**Memory Margin of Capacitor-less Memory-cell on Unstrained Si on Strained SiGe Layer-on-Insulator** / SONG Seung-Hyun, SHIN Mi-Hee, KIM Sung-Je, SHIM Tae-Hun, PARK Jea-Gun(Advanced Semiconductor Material and Device Development Center, Hanyang University)

**Kp-II-016**

**Defect state of Sb<sub>2</sub>S<sub>3</sub> nano-particles for inorganic-organic heterojunction solar cell** / LEE Dong Uk, PAK Sang Woo, KIM Eun Kyu (Quantum-function research Laboratory, Department of physics, Hanyang University), RHEE Jae Hui, SEOK Sang il(KRICT-EPFL Global Research Laboratory, Advanced Materials Division, Korea Research Institute of Chemical Technology)

**Kp-II-017**

**CuAlSe<sub>2</sub>** 에피레이어의 에너지 밴드갭의 온도 의존성과 전기적 특성 / 홍

광준(조선대)

### Kp-II-018

투명 폴리이미드 기반 Flexible LCD 소자 제작 / KIM GI HEON, LEE WON JAE(한국전자통신연구원), CAI JIE YU, CHOI KYUNG HO(한국생산기술연구원)

### Kp-II-019

A study on optimized stoichiometry of Bi(x)Se(1-x) prepared by multilayer deposition for phase change random access memory  
TAEHYEON Kim, JUHEYUCK Baeck, KWANGHO Jeong, MANNHO Cho (Institute of physics and applied physics and the graduate school of Yonsei University)

### Kp-II-020\*

계면 활성제를 사용한 electrodeposition을 통한 ZnO의 성장과 특성 연구 / 손재상, 김영삼, INAMDAR A. I., 임현식(동국대)

### Kp-II-021\*

Controlled Anodization and Etching Process for Highly-ordered Anodic Aluminum Oxide with High-throughput Fabrication  
조한꽃누리(성균관대), 최덕현(경희대), 김상우(성균관대)

### Kp-II-022

Deposition of a-GaInZnO thin film by RF sputtering at different substrate temperature / THAKUR Anup(Pohang Accelerator Laboratory, Pohang University of Science and Technology (POSTECH), Pohang 790-784, Korea. U.C.o.E, Punjabi University Patiala, Punjab - India), KANG Se-Jun (Department of Physics, POSTECH, Pohang 790-784, Korea.), BAIK Jae Yoon, LEE Ik-Jae, LEE Han-Koo, PARK Jaehun(Pohang Accelerator Laboratory, POSTECH, Pohang 790-784, Korea.), SHIN Hyun-Joon(Pohang Accelerator Laboratory and Department of Physics, POSTECH, Pohang 790-784, Korea.)

### Kp-II-023

Study on trapping centers for photocurrent signal of CdIn<sub>2</sub>Te<sub>4</sub> single crystal grown by the Bridgman method / YOU Sangha, HONG Kwangjoon(Department of Physics Chosun University)

### Kp-II-024\*

The Photoluminescence and Photoreflectance Properties of CIGS Thin Films Grown by Three Stage Co-evaporation Process  
조현준, 김정화, 김중수, 배인호(영남대), 임명근, 성시준, 김대환(대구경북과학기술원 공공원천기술연구센터)

### Kp-II-025\*

SnO<sub>2</sub> 나노 입자를 분산한 폴리머를 사용한 유기 쌍안정성 소자의 메모리 효과와 전하 수송 메커니즘 / 객진구, 윤동열, 정재훈, 이대욱, 김태환(한양대)

#### Kp-II-026\*

기저진공도 변화에 따라 Molybdenum 박막의 비저항에 변화 연구

박효원, 정인승(연세대), 황우택((주)야스), 유승희, 남윤성, 김성인(연세대), 최명훈((주)야스), 유경화, 정광호, 백경선, 장수경(연세대)

#### Kp-II-027\*

P-type의 Graphite Oxide와 화학적 방법을 사용하여 변환한 n-type Graphite Oxide를 이용하여 p-n junction 소자 제작 및 특성 분석

김현익, 오광일, 이인열, 김길호(성균관대)

#### Kp-II-028

PLD법에 의해 성장된 ZnO 에피레이어의 결정구조와 에너지 밴드갭의 온도 의존성 / 홍광준(조선대)

#### Kp-II-029

불순물 분위기에서 열처리된 ZnO 박막의 광발광 엑시톤 에너지 / 홍광준(조선대)

#### Kp-II-030\*

펄스 레이저 증착법을 이용한  $\text{Si}_{0.95}\text{Fe}_{0.05}$  박막 증착과 물리적 특성 연구

서주영, 박상우, 송후영, 김은규(한양대)

#### Kp-II-031\*

Absorber Layer Characterization of  $\text{Cu}_2\text{ZnSnS}_4$  Based Thin Film Solar Cells Prepared by Pulsed Laser Deposition and Post  $\text{H}_2\text{S}$  Rapid Thermal Annealing / KIM Yong Soo, JEONG li-Kyo, CHOI Hak-Soon, SHIN Moon-Su, UM Ja Yoon, KIM Heonho(University of Ulsan, Dept. of Physics and Energy Harvest-Storage Research Center), Jihyun(Hanyoung Foreign Language High School)

#### Kp-II-032

$\text{ZnCdGa}_2\text{O}_4 : \text{Er}$  결정의 광학적 특성 / 최성휴(조선대), 김남오(조선이공대학, 전기과), 방태환(성화대학, 항공전기전자과)

#### Kp-II-033

코어-셸 나노입자들이 분포된 전도성 고분자 박막을 사용하여 제작한 유기 쌍안정 소자에서 셸이 메모리용량에 미치는 효과 / 이민호, 윤동열, 정재훈, 김태환(한양대), 유의덕, 김상욱(아주대)

#### Kp-II-034\*

Electrical properties of Phase Change Memory cell with device structure of  $\text{Bi}_2\text{Se}_3/\text{Gd}_2\text{O}_3/\text{SbSe}$  / 최해진, 김태현, 백주혁, 정광호, 조만호(연세대)

#### Kp-II-035

Growth condition dependence of optical properties of  $\text{Cu}_2$

**ZnSnSe<sub>4</sub> thin films grown by co-evaporation** / 박도영, 남다현, 정현식  
(서강대), 정성훈, 곽지혜, 안세진, 윤재호, 윤경훈(한국에너지기술연구원)

**Kp-II-036**

**Binding energy study from photocurrent signal of AgInS<sub>2</sub> / GaAs epilayers** / HONG Kwangjoon(Department of Physics, Chosun University)

**Kp-II-037**

**전도성 다이아몬드 생성 및 산화도에 따른 전기적 특성 연구** / 문성수, 안태준, 김현정(동국대), 정창구, 김태규(부산대)

**Kp-II-038**

**ZnGa<sub>2</sub>O<sub>4</sub> 및 ZnGa<sub>2</sub>O<sub>4</sub> : Mn 결정의 광학적 특성** / 최성휴(조선대), 김남오  
(조성이공대학, 전기과), 방태환(성화대학, 항공전기전자과)

**Kp-II-039\***

**WSi<sub>2</sub> nanocrystal memory with Al<sub>2</sub>O<sub>3</sub>/HfO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub>/HfO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> barrier engineered high-K tunnel layers** / LEE Hyo Jun, LEE Dong Uk, KIM Eun Kyu(Department of physics, Hanyang University), YOU Hee-Wook, CHO Won-Ju(Department of Electronic Materials Engineering, Kwangwoon University)

**Kp-II-040**

**CuGaTe<sub>2</sub> 에피레이어의 결정구조와 전기적 특성** / 이상열, 홍광준(조선대)

**Kp-II-041\***

**NiTiO<sub>3</sub> 구조의 비휘발성 메모리 소자로서의 적용 가능성 연구** / 김종민, 장병욱, INAMDAR A. I., 임현식, 정웅, 김형상(동국대)

**Kp-II-042**

**디스플레이용 플라스틱 기판의 Thermal 전처리 효과** / KIM GI HEON, LEE WON JAE(한국전자통신연구원)

**Kp-II-043**

**Growth and Characterization of ZnS Thin films Grown by using CBD Technique** / UM youngho, PARK seungmin, KIM hyungmin, PARK minsuck(Department of Physics, University of Ulsan)

**Kp-II-044\***

**Microstructure and dielectric function of Ge-doped SbTe thin films** / PARK Jun Woo, JANG Hyung Keun, LEE Hosun(Department of Applied Physics, Kyung Hee University), LEE Ju Ho, LEE Jeong Yong(Department of Materials Science and Engineering, KAIST), KANG Tae Dong

(Department of Physics, New Jersey Institute of Technology), JEONG Byoung-ki(Electronic Materials Center, Korea Institute of Science and Technology)

#### Kp-II-045

**Effect of  $\text{HfO}_2$  Interfacial Layer on Bipolar Resistive Switching Characteristics of  $\text{TiN}/\text{HfO}_2/\text{Al}_2\text{O}_3/\text{Pt}$  Structures** / 김종기, 나희도, 이성훈, 손현철(연세대)

#### Kp-II-046

**열증발식 동시증착법으로 제작된  $\text{CuGaSe}_2$  박막의 Cu/Ga 증발비율에 따른 광루미네선스 특성 연구** / 유승희, 박효원, 남윤성, 정인승, 정광호, 백경선, 장수경(연세대)

#### Kp-II-047\*

**Optical Characterizations of  $\text{CuInSe}_2$  Thin Films Prepared by Selenization of Sputter-deposited  $\text{CuIn}$  Thin Film with Se Vapor**  
남다현, 박도영, 정현식(서강대), 안세진, 윤재호, 곽지혜, 윤경훈, 문동권(한국에너지기술연구원 태양광연구단)

#### Kp-II-048\*

**Resistive Switching Characteristics of  $\text{TiO}_2$  with Controlling Defects at the Metal/oxide Interface** / 임동혁, 송진호, 조만호, 이두성, 고대홍, 김종기, 손현철(연세대)

#### Kp-II-049

**Structural, electrical and optical properties of AZO co-sputtered metal indium multilayer thin films prepared by using RF and DC magnetron sputtering** / UM youngho, KIM hyungmin, PARK seongmin, SEO junghyun, HWANG younghun(Physics, University of Ulsan)

#### Kp-II-050

**Inter-molecular Repulsions in Adsorbed Thiophene Monolayer on The  $\text{Si}(100)\text{-}2\times 1$**  / CHUNG Jinwook, LEE Han-Koo, KIM Ilyou, KIM Ki-jeong, KIM Hyeong-Do, SHIN Hyun-Joon, LEE Ik-Jae, KIM Bongsoo(포항공대)

#### Kp-II-051\*

**Tunneling Transport in a Tunnel Junction with Evanescent States Window at a Junction Interface** / 우현석, 전기영, 이민영, 정정문, 임현식, 정웅, 김형상(동국대)

#### Kp-II-052\*

**Annealing effect of  $\text{TiO}_2$  and Nb-doped  $\text{TiO}_2$  deposited by RF sputtering as a function of ambient gas** / 정권범, 박현우, 옥경철, 박진성(단국대)

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## Dp-III-091

**X-ray Resonant Magnetic Scattering Study of Temperature-dependent Gd Magnetization Depth Profiles in a Gd/Fe Multilayer** / KIM Jong Dae, LEE Dong Ryeol(Department of Physics, Soongsil University), CHOI Y., FREELAND J.W., JIANG J.S.(Argonne National Laboratory, Argonne, IL 60439, USA)

## Dp-III-092

**2차원 결합된 강자성체와 반강자성체에서의 스핀 방향 전이** / 홍상신, 권혁영, 원창연(경희대 물리학과)

## Dp-III-093

**Investigation of ferrimagnetic and ferroelectric properties of PZT-CFO composite film** / 도중희, 정동규(경북대)

## Dp-III-094

**자성체/초전도체 다층박막의 패턴 형태 변형에 따라 정상상태의 자기저항 변화** / 황태종, 감동호(영남대)

## Dp-III-095\*

**Nano-Oxide층을 포함한 Py/Pd 이중층에서의 Spin-pumping 효과**  
김덕호, 김홍현, 유천열(인하대)

## Dp-III-096\*

**Temperature hysteresis of magnetic domain volume in  $\text{CoCr}_2\text{O}_4$  investigated by NMR** / 이진원, 윤동영, 이순철(한국과학기술원 물리학과), 김인규, 김기훈(서울대)

## Dp-III-097\*

**$\text{FeGa}_2\text{O}_4$ 의 뢰스바우어 연구** / 김철성, 명보라, 김진모, 조현태, 고태준, 김삼진(국민대)

## Dp-III-098

**방사광 분광법을 이용한  $\text{Ca}_3\text{Co}_{2-x}\text{Rh}_x\text{O}_6$  산화물의 전자구조 연구**  
김대현, 이현진, 황지훈, 이기호, 이은숙, 강정수(가톨릭대), 박혜림, 정윤희(포항공대), 박병규, 김재영(포항가속기연구소)

## Dp-III-099

**웨이퍼 수준의 자기저항 박막 제작을 위한 균일한 일축자기장 분포를 갖**

는 기판 홀더의 설계 / 김선욱, 황도근(상지대)

**Dp-III-100\***

**The variation of Morin transition temperatures of hematite (0001) films by an epitaxial strain / 박성훈, 박재훈(포항공대 물리학과), 박병규, 김재영(포항공대 가속기연구소)**

**Dp-III-101**

**Large Magnetostriction of  $\text{Fe}_{1-x}\text{Zn}_x$  Alloy: Density Functional Study / YUN Won Seok, DORJ Odkhuu, HONG Soon Cheol(Dept. of Physics and Energy Harvest-Storage Research Center, Univ. of Ulsan)**

**Dp-III-102**

**Study of magnetic property of  $\text{Ba}_{0.7}\text{La}_{0.3}\text{Ti}_{1-x}\text{Fe}_x\text{O}_3$**

RAJAGUKGUK Reni, SHIN Dong Geun, LEE Bo Wha(Department of Physics, Hankuk University of Foreign Studies)

**Dp-III-103**

**Electron spin resonance study of ferromagnetism in graphite**

LEE Cheol Eui, KIM Do wan, LEE Kyu Won, KIM Jin Soo(Korea University, Department of Physics)

**Dp-III-104\***

**Structural, magnetic, and transport properties of CrAs thin films**

SHIN Yooleemi, HWANG Younghun, DANG DucDung, DUONG VanThiet, CHO Sunglae(울산대)

**Dp-III-105**

**Electronic Structures and Magnetic Properties of a Spin Chain Cobaltite System / KIM Bongjae, MIN B.I.(POSTECH, Physics)**

**Dp-III-106**

**Observing Low-spin States Of  $^{55}\text{Mn}^{3+}$  in Beta- $\text{MnO}_2$  by NMR (Nuclear Magnetic Resonance) / KIM Changsoo, JO Euna(KAIST,**

Department of physics), LEE Soonchil(KAIST, Department of Physics)

**Dp-III-107**

**Electronic Structures and Magnetism of Hexavalent 3d and 4d transition metal compounds :  $\text{K}_2\text{MO}_4$  ( $\text{M} = \text{Fe}, \text{Ru}$ ) / 김민재, 민병일(포항공대)**

**Dp-III-108\***

**외스바우어 분광법을 이용한  $\text{LiFePO}_4$  물질의 Spin reorientation 연구**  
김철성, 이찬혁, 이인규, 문승제, 김우철, 심인보(국민대)



**Dp-III-109\***

**Soft X-ray Resonance Scattering Experiment of Y-type Hexaferrite** / 노우석, 장호영, 박재훈(POSTECH, 물리학과), 천세환, 김기훈(서울대), 김재영, 박병규(포항가속기연구소)

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**Dzyaloshinskii-Moriya interaction을 고려한 이차원 자성시스템의 Stripe domain phase에 대한 연구** / 권희영, 부경미, 원창연(경희대)

**Dp-III-111**

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**Dp-III-112**

**Far-infrared properties of Dysprosium and Terbium Iron Garnet single crystals** / HONG Taeyoon, CHOI Kyujin(Department of Physics, Yonsei University, Seoul 120-749 Korea), SONG Ki Myung, HUR Namjung(Department of Physics, Inha University, Incheon 402-752 Korea), KIM Jae Hoon(Department of Physics, Yonsei University, Seoul 120-749 Korea)

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**Spatially resolved and layer-resolved magnetization reversals of disk-shaped Co/Cu/NiFe spin valves** / KIM Dong-Ok, LEE Dong Ryeol(Department of Physics, Soongsil University), CHOI Y., FREELAND J. W.(Argonne National Laboratory, Argonne, IL 60439, USA), METLUSHKO V.(Department of Electrical and Computer Engineering, University of Illinois at Chicago, Chicago, IL 60607, USA)

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**Off-axis sputtering으로 성장된 Eu<sub>0.5</sub>Sr<sub>0.5</sub>CoO<sub>3</sub> 박막의 물리적 성질과 anomalous Hall 효과에 대한 연구** / 우영수, 권대영, 김봉주, 진예령, 김복기(부산대)

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**Observation of Room Temperature Ferromagnetism in Pure ZnO Thin Films Grown Using rf-sputtering** / PRATAP SINGH Abhinav (Pohang Accelerator Laboratory), KUMAR Ravi(Centre for materials Science and Engineering), KIM J.-Y.(Pohang Accelerator Laboratory)

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**Phase Stabilization** / PARK Young an, SUNG Kil Dong, JUNG Jong Hoon, HUR Nam Jung(인하대)

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**Growth of Highly-Elongated BiFeO<sub>3</sub> Thin Films** / 우창수, 이진홍, 주강현(KAIST, Department of Physics), 양찬호(KAIST, Department of Physics, and Institute for the NanoCentury)

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**Ni<sub>0.2</sub>Cu<sub>0.6</sub>Zn<sub>0.2</sub>Fe<sub>2</sub>O<sub>4</sub> 물질의 Mössbauer분광 연구** / 이용혜, 박일진, 현성욱, 심인보, 김삼진, 김철성(국민대)

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**Radio-Frequency Shot Noise Measurement in a Magnetic Tunnel Junction with MgO Barrier** / 박정환, REHMAN Mushtaq(한국표준과학연구원), 이연섭, 민병철, 신경호(KIST), 류상완(전남대), 김정구(서울대), 송운, 정연욱(한국표준과학연구원)

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**The role of impurity in ferrite system with grain boundary**  
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**Unusual Magnetic Behaviors with Large Anisotropy and 1/3 Magnetization Plateau in CoV<sub>2</sub>O<sub>6</sub>** / PARK Sang-Youn, JANG Tae-Hwan (Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea), PARK Byeong-Gyu (Pohang Accelerator Laboratory, Pohang University of Science and Technology, Pohang 790-784, Korea), HONG Kun-Pyo (Korea Atomic Energy Research Institute, Daejeon 350-600, Korea), JEONG Yoon-Hee(Department of Physics, Pohang University of Science and Technology, Pohang 790-784, Korea)

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**Effect of structural distortion on ferrimagnetic order in Lu<sub>1-x</sub>LFe<sub>2</sub>O<sub>4</sub> (L=Y and Er; x=0.0, 0.1, and 0.5)** / NOH Han-Jin, SUNG Hojin, JEONG Jinwon, JEONG Jinhwan(전남대), KIM Sung Baek(국민대), KIM J. Y., CHO B. K.(광주과학기술원)

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**Charge-density wave and ferromagnetic transition of  $\text{SmNiC}_2$  under pressure** / WOO Bonghee, SEO Soonbeom, PARK Eunsung, JANG Dongjin, KIM Jinhee, KWON Yongseung(Department of Physics, Sungkyunkwan University, Suwon 440-746, South Korea), LEE Hanoh, J.D. Thompson (Los Alamos National Laboratory, Los Alamos, NM 87545, USA), PARK Tuson (Department of Physics, Sungkyunkwan University, Suwon 440-746, South Korea)

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**Unambiguous Ferromagnetic Shift observed in Electron Magnetic Resonance of  $\text{PbI}_2$  Powder** / LEE Chang Hoon(Polymer Science & Engineering, Chosun University), PARK Sung-Hun(Chemistry, University of Seoul)

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**SBA-15의 등온 흡탈착 곡선을 이용한 물성분석 / 김재용, 이상화, 김의권, 한요셉, 김성민, 박재구(한양대)**

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SHARMA Bharat Kumar, YUN Won Seok, KWON Oryong, HONG Soon Cheol(Dept. of Physics and Energy Harvest-Storage Research Center, Univ. of Ulsan)

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**Adsorption of Al/W(110) Studied by LEED and ISS / 최대선, 이인혁, 박미미, 김주환, 이정환, 김도형(강원대)**

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**Dielectric properties and electronic structures of Si/SiO<sub>2</sub>/HfO<sub>2</sub> slab from the first principle calculations / PARK Yongjin, KONG Ki-Jeong, CHANG Hyunju(NanoBio Fusion Research Center, Korea Research Institute of Chemical Technology, Daejeon)**

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**UHV에서의 수소 압력 측정 및 보정** / 이석관, 김희수, 김영미, 온연길, 편한별, 나주안, 최민식, 이주호, 임석호, 현준원(단국대), 정보현, 노승정(한국연구재단 핵융합단, 대전 305-350)

### Hp-III-010

**Study of sawtooth crash time scale in KSTAR plasmas with auxiliary heating** / M.-J. CHOI, G.S. YUN, W. LEE, J.B. KIM, H.K. PARK(POSTECH, Department of Physics)

### Hp-III-011

**Experimental Investigation of Microwave Imaging Reflectometry**  
남윤범, 홍인호, 김민우, 이우창, 윤건수, 김진철, 박현거(포항공대)

### Hp-III-012

**KSTAR Peripheral Density and ICRF Propagation** / S.J. Wang, J.G. Kwak, S.H. Kim, S.K. Kim(KAERI), C.Y. An(KAERI, Soongsil University)

### Hp-III-013

**Determination of the parameters in the Modified Rutherford Equation for Time-dependent Simulations of the Neoclassical Tearing Mode** / KIM Kyungjin(Department of Energy System Engineering, Seoul National University), TERZOLO Laurent(National Fusion Research Institute), PARK Y.S.(Department of Applied Physics and Applied Mathematics, Columbia University), NA Yong-su(Department of Energy System Engineering, Seoul National University)

### Hp-III-014\*

**Investigation of the ELM Size for Various ELM Types and Plasma Parameters in NSTX** / PARK Jin-Woo(Seoul National University, Department of Energy System Engineering), AHN Joon-Wook(Oak Ridge, Oak Ridge National Laboratory), NA Yong-Su(Seoul National University, Department of Nuclear Engineering)

### Hp-III-015\*

**공동형 열플라즈마 토치를 이용한 핵융합 플라즈마 대면 재료의 특성 평가용 열부하 장치 구축** / 김현수, 최재명, 이진영, 진영길, 김근호(서울대)

### Hp-III-016\*

**유도결합형 수소 플라즈마 이온원의 운전 주파수에 따른 단위자 수소 이온 밀도 생성 특성 관찰** / 허성렬, 김근호(서울대)

Hp-III-017

GPGPU를 이용한 PIC 시뮬레이션 속도 개선 방안 / 황석원, 이해준(부산대)

Hp-III-018\*

**Discharge Characteristics and Optical Diagnostics in Pulsed**

**Water Plasma** / 이희재, 이창호, 박병재(포항공대), 변영철(포항산업과학연구

원), 조무현(포항공대), 남궁원(포항가속기연구소)

Hp-III-019\*

플라즈마의 전자 에너지 분포 함수와 원자 발광 스펙트럼의 빛의 세기 비  
의 관계 연구 / 박설혜, 김근호(서울대)

Hp-III-020

빠른 내림 시간의 펄스에서 쉬스의 감소에 따른 주변부 플라즈마 밀도 분  
포의 변화 / 최재명, 김근호(서울대)

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장소: 스키하우스

**Jp-III-001****Entanglement Dynamics Of Four-Qubit Cluster State Under Dephasing** / 권영현, 장진호(한양대)**Jp-III-002****Double photoionization of two-electron atoms: a hybrid method**  
최낙렬, 이민호(금오공대)**Jp-III-003****Quantum reflection of helium atom beams from solid surfaces**

조범석, SCHEWE H.Cristian, MEIJER Gerard, SCHÖLLKOPF Wieland(Fritz-Haber-Institut der Max-Planck-Gesellschaft, Molecular Physics Department)

**Jp-III-004\*****Making a Narrow Linewidth External-Cavity-Diode-Laser Using an Optical Interference Filter** / YOON Yeojeong(Department of Physics, Myongji University), PEREIRA DOS SANTOS Franck(LNE-SYRTE, Observatoire de Paris), KIM Jaewan(Department of Physics, Myongji University)**Jp-III-005\*****광집계를 이용한 미세입자와 생체시료의 포획** / 최시연, 성백현, 권원미, 김재완(명지대)**Jp-III-006\*****Making Sealed Cell For Optical Tweezer** / 성백현, 권원미, 김재완(명지대)**Jp-III-007****채널 트론을 이용한 칼슘 이온 포획 신호 검출** / 박영호, 손병욱, 오명규, 고도경, 강훈수(광주과학기술원)**Jp-III-008****평행 다중반사 구성에 기반을 둔 고분해능 헤테로다인 마이켈슨 간섭계**  
이정민, 윤태현(고려대)**Jp-III-009****반도체 포화흡수 거울을 이용하여 수동모드 잠금된 전 정상 분산 이터븀 광섬유 레이저에서의 다중 펄스 발생**  
김진호, 윤태현(고려대)

**Jp-III-010\***

좁은 선폭을 갖는 온도 안정화된 고리형 광섬유 공진기 제작 및 레이저 주파수 안정화 연구 / 허은화, 윤태현(고려대)

**Jp-III-011\***

옥타브 스펙트럼과 1 GHz 반복률을 갖는 Ti : Sapphire 펄스초 모드잠금 레이저 광주파수 빔 발생 / 윤두성, 윤태현(고려대)

**Jp-III-012**

Yb 원자의 cascade 이광자 전이를 이용한 611 nm와 556 nm 파장을 갖는 광자쌍 발생 / 송민수, 윤태현(고려대)

**Jp-III-013\***

**The Second-Order Correlation of the Cavity-QED Microlaser near the Quantum Jump** / SONG Younghoon, SEO Wontaek, HONG Hyun-Gue, LEE Moonjoo, KIM Junki, AN Kyungwon(Department of Physics and Astronomy, Seoul National University)

**Jp-III-014\***

**The temperature measurement of trapped 85Rb atoms below a mirror surface(mirro-MOT) from time of flight absorption images** / 정대원, 박수진, 박형근, 정상목, 유훈, 김종복(한국과학영재학교)

**Jp-III-015\***

**Experimental Apparatus For Large  $^{23}\text{Na}$  Bose-Einstein Condensates** KWON Woo Jin, CHOI Jai yoon, HEO Myoung-Sun, SHIN yong-il(Department of Physics and Astronomy, Seoul National University)

**Jp-III-016**

**Magic Polarization for a Ground-state Hyperfine Transition in an Optical Trap** / 김휘동, 조동현(고려대)

**Jp-III-017\***

주파수 이용된 레이저를 이용하여 파라핀이 코팅된 Rb 증기셀에서의 EIA 신호 측정 / 호중 김, 한섭 문(부산대)

**Jp-III-018**

**Analytical calculation of the susceptibility for Doppler-broadened two-level atoms with non-cycling transition** / WON Jun Yeon, SEO Min Jeong, NOH Heung-Ryoul(전남대)

**Jp-III-019**

**Measurement of Transmittance Spectrum for an Arbitrarily Polarized Light in Rubidium** / SEO Min Jeong, WON Jun Yeon, NOH

**Jp-III-020\***

**Saturation of a transition between two levels in a three-level configuration** / 한혁상, 조동현(고려대)

**Jp-III-021\***

**Influence of spin delocalization on the singlet-triplet gap of diradicals generated in polyacenes: Density-functional theory calculations** / KIM Hyun-Jung, CHO Jun-Hyung(Department of Physics and Research Institute for Natural Sciences, Hanyang University)

**Jp-III-022**

**Application of the solid-state NMR for  $^1\text{H}$ ,  $^{13}\text{C}$  and  $^{29}\text{Si}$  in developing preceramics for SiC fiber** / HAN Doug young(Division of Magnetic Resonance, Korea Basic Science Institute, Seoul), KIM Se hun(Faculty of Science Education, Jeju National University, Jeju), HAN Junhee(Dept. of Physics, Korea University, Seoul), YOUNGHEE Kim(Korea Institute of Ceramic Engineering and Technology, Seoul)

**Jp-III-023**

**Difference of spin nutation behavior for the quadrupolar broadened NMR spectrum** / HAN Dougyoung(Division of Magnetic Resonance, Korea Basic Science Institute, Seoul), SEHUN Kim(Faculty of Science Education, Jeju National University, Jeju), HAN Junhee(Dept. of Physics, Korea University, Seoul)

2010년 10월 21일 목요일 13:25-15:25

장소: 스키하우스

## Kp-III-053

**MOCVD 법으로 성장된 u-GaN 박막의 열처리 온도에 따른 전기적 특성 조사** / 김기섭, 김문덕(충남대), 김송강(중부대), 이상태, 박병권(충남대)

## Kp-III-054

**MBE법으로 Si(111)기판을 이용한 InN양자점 성장과 광 특성 조사**  
이상태, 한서희, 유진아, 김문덕(충남대)

## Kp-III-055\*

**A chemically driven GaN nanostructure with improved internal / external quantum efficiency** / CHO Yong-Hoon, KIM Je-Hyung(KAIST), OH Chung-Seok(Synnex), KO Young-Ho, KO Seok-Min(KAIST)

## Kp-III-056

**고정집광렌즈를 이용한 고효율 III-V 태양광모듈 개발** / 김효진(한국광기술원 광에너지연구센터), 황성환(한국광기술원 나노광전융합연구센터), 정병호(남부대), 문미란(주) 지앤알)

## Kp-III-057

**Investigation of Quantum Efficiency in III-V Multi-Junction Solar Cells** / 김대환, 류한열(인하대)

## Kp-III-058\*

**타원편광분석법을 이용한 임의의 As 성분에 대한 InAsSb 화합물의 유전함수 분석** / 황순용, 김태중, 공태호, DIWARE M. S., ASPNES D. E., 김영동(경희대), 신상훈, 송진동(한국과학기술연구원 나노 융합 소자 센터)

## Kp-III-059

**In<sub>1-x</sub>Al<sub>x</sub>Sb alloys의 유전함수와 밴드 간 전이 분석** / 변준석, 윤재진, 정용우, ASPNES D. E., 김영동(경희대), 김혜정, CHANG Y. C.(Research Center for Applied Sciences, Academia Sinica, Taipei 115, Taiwan), 신상훈, 송진동(한국과학기술연구원 나노 융합 소자 센터)

## Kp-III-060

**PECVD 증착조건에 따른 InP 위에 증착된 SiNx의 굴절율 및 응력의 변화**  
김성민(한국광기술원 시험인증센터), 김효진(한국광기술원 광에너지연구센터), 유소영(한국광기술원 광에너지 연구센터)

## Kp-III-061

**The effect of substrate on carriers localization and luminescence**

**lifetime of InGaN/GaN light emitting diodes** / DONG Yanqun, KIM Ho-Jong, AHN Byung-Jun, KIM Tae-Soo, HONG Moon-Taek, LEE Jin-gyou, SONG Jung-Hoon(Department of Physics, Kongju National University), KIM Song-Mook(Korea Photonics Technology Institute)

**Kp-III-062**

**질화물계 LED의 광추출 효율 향상을 위해 Alumina powder를 이용한 ITO surface texturing과 n-GaN nanorods 형성** / 김승환, 선우영(전북대), 전성란, 송영호(한국광기술원, LED융합기술센터), 양계모(전북대)

**Kp-III-063**

**Al(In)GaN/InGaN MQW에서의 내부 양자효율 향상을 위한 Barrier 도핑 최적화에 관한 연구** / 송영호, 김승환, 김재관, 전성란(한국광기술원)

**Kp-III-064**

**GaN Nanostructures as Antireflection Coating** / 박현규, 김진교(경희대)

**Kp-III-065\***

**Fabrication of the catalyst free GaN nanorods on Si substrate grown by MOCVD** / KO Suk-Min, CHO Yong-Hoon(Department of Physics and Graduate School of Nanoscience & Technology (WCU), Korea Advanced Institute of Science and Technology (KAIST))

**Kp-III-066\***

**0.2  $\mu$ m AlGaIn/GaN High Electron Mobility Transistor (HEMT)에서의 온도에 따른 수송 현상 분석** / 이민영, 전기영, 임현식, 김형상(동국대), 노정현, 최홍구, 이준호, 한철구(전자부품연구원)

**Kp-III-067**

**서로 다른 유전 박막과 급속 열처리 과정을 통한 양자점의 선택적 에너지 밴드 제어** / 이홍석(광주과학기술원, 고등광기술연구소), RASTELLI Armando, KIRAVITTAYA Suwit, SCHMIDT Oliver G.(IFW Dresden, Institute for Integrative Nanosciences)

**Kp-III-068\***

**Electron transport through end-on metal contacts on GaN nanorods made by nano-patterning and dry-etching** / GO Heung-Seok(UNIST, 전기전자컴퓨터공학부)

**Kp-III-069**

**Controlled Preferred Orientation of a-plane GaN on SiO<sub>2</sub>-patterned r-plane Sapphire Substrates** / 신동규, 김진교(경희대)

**Kp-III-070**

**Effect of Indium Interruption Time on the Optical Properties of**



## **Self-assembled InAs Quantum Dots Grown on GaAs Substrate**

KIM Hee Yeon, RYU Mee-Yi(Department of Physics, Kangwon National University), KIM Jin Soo(Division of Advanced Materials Engineering, Chonbuk National University)

### **Kp-III-071**

#### **Nitridation-induced Transformation of In to InN Nanoshells**

정인희, 김진교(경희대)

### **Kp-III-072**

#### **Surface Morphology of AlN Buffer Layer and its Effect of GaN Grown on Si(111) Substrate by MOCVD / 임기영, 김종옥, 홍성기(전북대)**

### **Kp-III-073**

#### **Research on carrier distribution in active layer of InGaN/GaN blue light-emitting diode by capacitance-voltage measurement**

김태수, 김호중, 안병준, 동염균, 홍문택, 이진규, 송정훈(공주대), 문영부, 여환국, 최성철, 송재호((주)TheLEDs)

### **Kp-III-074\***

Zr 버퍼층 위에 성장된 GaN 나노구조의 XRD 특성 분석 / 김민지, 최윤정, 신민정, 전현수, 안형수, 이삼녕(한국해양대), 최석철, 이상걸(한국기초과학지원연구원 대구센터)

### **Kp-III-075\***

광소자의 투과율 향상을 위한 ITO 투명전극 두께의 최적화

LEE Dong-Seon, SEO Dongju(School of Information and Communications, Gwangju Institute of Science and Technology(GIST))

### **Kp-III-076**

#### **Study on the correlation between In localization and Stoke's shift of InGaN/GaN by photo-current and photoluminescence spectroscopies / 안병준, 김호중, 김태수, 동염균, 홍문택, 이진규(공주대), 문영부, 여환국, 최성철, 배덕규, 송재호((주)더리즈), 송정훈(공주대)**

### **Kp-III-077**

#### **Effect of Diffusion Enhancement of Ga Species on the Aspect Ratio Control of GaN Islands / 이상화, 김진교(경희대)**

### **Kp-III-078\***

#### **Broad-band light emitting In-rich InGaN/GaN multi-quantum well formed on GaN nano- and micro-scale pyramid structures**

KO Young-Ho(Department of Physics and Graduate School of Nanoscience & Technology (WCU), Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea), KIM Taek(Samsung Advanced Institute of Technology,

Yongin, Korea), KWON Bong-Joon, CHO Yong-Hoon(Department of Physics and Graduate School of Nanoscience & Technology (WCU), Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea)

**Kp-III-079**

**MOCVD로 성장한 GaN nanowires의 pre-heating 온도의존성**

양재열, 우시관, 오병성(충남대), 이형규(충북대), 김창수(한국표준과학연구원)

**Kp-III-080\***

**Nanoarchitecture Visible Light Emitting Diodes Fabricated on Si**

이철호, 홍영준, 김용진, 유진경(포항공대), 백현준(서울대), 전성란, 이승재(한국광기술원), 이규철(서울대)

**Kp-III-081\***

**Micro-patterning of Quantum Dots on Light Emitting Diodes**

CHO Yong-Hoon, ISNAENI. Isnaeni, LEE Kyu-Seung(KAIST)

**Kp-III-082**

**A weak ferromagnetic interaction of Co doped ZnS nanoparticles /**

SANGARAJU Sambasivam, KIM Saes Byul, LI Guojie, CHOI ByungChun, JEONG JungHyun(부경대)

**Kp-III-083\***

**Growth of Ga and N co-doped zinc oxide thin film with nitric oxide by laser ablation /**

KIM Useong, CHO Suyeon, MIN C.-H., KWON H.W., CHO D.Y., PARK W.G., OH S.J.(Department of Physics, Seoul National University, Seoul, Korea)

**Kp-III-084**

**Effect of MgO doping on the dielectric and optical properties of**

**ZnO /** 김삿별, LI Guo jie, 최병준, 정중현(부경대)

**Kp-III-085**

**CIGS 태양전지 내 형성된 Deep Level /** 권석재, 최인환(중앙대)

**Kp-III-086\***

**Growth and Characterization of CdS nanostructures**

김성수, 김상우(성균관대)

**Kp-III-087**

**Optical Property and Carrier Lifetime Study of Colloidal CdSe**

**Quantum Dots and Bandgap Difference Between Quantum Dots**

**and Quantum Rods /** GOSWAMI Syamanta, KIM TaeSoo, KUMAR Kiran,

KIM Eui Tai, OH Eunsoon(충남대)

**Kp-III-088**

**MOCVD를 이용한 ZnO:B 박막 성장** / 현동원, 최인환(중앙대), 최철환(LG이노텍)

**Kp-III-089\***

**Growth of High Quality ZnO Nanowires on Graphene** / PARK Hyun-Kyu, LEE Keun Young, KUMAR Brijesh(School of Advanced Materials Science and Engineering, Sungkyunkwan University), CHOI Won Mook, CHOI Jae-Young(Samsung Advanced Institute of Technology), KIM Sang-Woo(SKKU Advanced Institute of Nanotechnology (SAINT) and Center for Human Interface Nanotechnology (HINT), Sungkyunkwan University)

**Kp-III-090**

**Properties of the Mn-doped ZnO thin films grown by Pulsed Laser Deposition** / LI Guojie, KIM Saes Byul, CHOI Byung Chun, JEONG Jung Hyun(부경대)

**Kp-III-091\***

**Performance Enhanced Flexible Inverted Organic Solar Cells with ZnO Thin Films Prepared by Sol-Gel Method** / 박혜정, 이강혁, KUMAR Brijesh, 신경식(성균관대), 정순욱(금오공대), 김상우(성균관대)

**Kp-III-092**

**The Role of Carbon Doped in ZnO** / KIM Dong Hak, PARK Joon Won, LIM Daeyoung(Department of Applied Physics, Kyung Hee University)

**Kp-III-093**

**Study on the Resonant Tunneling Magnetoresistance Through a Mutiferroic Spintronic System** / 김남미, 김희상(송실대)

**Kp-III-094\***

**Surface plasmon-coupled emission-based highly sensitive prostate cancer protein chip using pegylated CdSe/ZnS Quantum dots as fluorophores** / CHO Yong-Hoon, JIN Li-Hua, LI Song-Mei(KAIST)

**Kp-III-095\***

**Doping-concentration-dependent resistance-switching memories of Cu-doped ZnO films** / 김민철, 임근용, 김창오, 최석호(경희대 응용물리학과)

**Kp-III-096\***

**수열합성법과 나노패터닝 공정을 이용한 ZnO 나노막대 어레이 제조 및 seed층의 결정구조에 따른 구조적 광학적 특성 평가** / 정해용, 박원일(한양대)

**Kp-III-097\***

**Inverted Organic Solar Cells with ZnO Nanowalls Prepared Using Wet Chemical Etching in a KOH Solution / 신경식, 김권호, KUMAR Brijesh, 박해정, 김상우(성균관대)**

**Kp-III-098\***

**Bi를 촉매로 저온에서 성장한 CdSe/CdS nanowire / 윤현식, 김정혁, 문소라, 김경호, 정재훈, 김유리, 송만석, 김용(동아대 물리학과), TAN H. H, JAGADISH C(The Australian National University), CHEN Zhi Gang, ZOU Jin(The University of Queensland)**

**Kp-III-099**

**ZnS와 ZnSe박막에서 Mn 조성비에 따른 광학적 특성 연구 / 김대중, 최용대(목원대), 이종원(한밭대), 빈석민, 김창수(표준과학연구원, 재료측정표준센터), 유평열(순천대)**

**Kp-III-100\***

**2차 성장에 의한 CdSe 가지가 있는 수직의 Ge 나노선 성장 / 문소라, 윤현식, 김정혁, 정재훈, 김유리, 김용(동아대), GAO Q., TAN H. H., JAGADISH C.(The Australian National University), ZOU J., CHEN Z.(The University of Queensland)**

**Kp-III-101\***

**Selective growth of ZnO nanorods on SiO<sub>2</sub>/Si substrates using a graphene buffer layer / 신경식(성균관대), 최원목, 이효성(삼성종합기술원), 최덕현(경희대), 김기홍, 신현진, 윤선미, 최재영(삼성종합기술원), 김상우(성균관대)**

**Kp-III-102\***

**High Quality ZnO Thin Films Growth Using Mist-CVD for Inverted Organic Solar cells / 김권호, 신경식, KUMAR Brijesh(성균관대), 김경국(한국산업기술대), 김상우(성균관대)**

**Kp-III-103**

**Surface Plasmon Resonance Spectroscopy Measurements of Ultra Thin MgO Insulating Barrier Developed by RF-Sputtered and Remote Oxidation Process**

AN Gwanguk, LEE jabin, HONG jinpyo(Department of Physics, Hanyang University)

**Kp-III-104**

**Observation of lattice constant of ZnO nanowires grown on AZO seed layers / LEE Sanghyo, LEE Junseok, NAM Hyewon, KO Wonbae, HONG JinPyo(Dep. of Physics, Hanyang Univ.)**

**Kp-III-105**

**Stable resistive switching of  $\text{TiO}_2$  film with various oxygen contents in Pt/ $\text{TiO}_2$ /Pt structure** / BAE Yoon Cheol, LEE Ah Rahm(Hanyang University, Division of nanoscale semiconductor engineering), KWAK June Sik, HONG Jin Pyo(Hanyang University, Department of Physics)

**Kp-III-106\***

**Stable p-type Li-doped ZnO nanowires** / LEE JunSeok, NAM HyeWon, LEE SangHyo, KO WonBae, HONG JinPyo(Hanyang University, Department of Physics)

**Kp-III-107**

**Role of The Inserted Titanium Oxynitride Thin Film for Highly Stable Uni-polar Resistance Switching Characteristics** / LEE Ah Rahm(Hanyang University, Division of Nanoscale Semiconductor), KWAK June Sik(Hanyang University, Department of Physics), BAE Yun Ceol(Hanyang University, Division of Nanoscale Semiconductor), HONG Jin Pyo(Hanyang University, Department of Physics)

**Kp-III-108**

**Enhanced Structural and Magnetic Characteristics of [Co/Pt]<sub>n</sub> Multi Layers for Perpendicular Magnetic Anisotropy Materials** LEE JaBin, AN GwangGuk, HONG JinPyo(Novel Functional Materials and Device Lab., Department of Physics, Hanyang University)

**Kp-III-109**

**Enhanced vertical alignment of ZnO nanowire arrays grown on different seed layers** / NAM HyeWon, LEE JunSeok, LEE SangHyo, KO WonBae(Department of Physics, Hanyang University)

**Kp-III-110**

**Cathode Luminescence Properties of Li-doped ZnO Nanowires** KO Wonbae, LEE Junseok, NAM Hyewon, HONG Jinpyo(Department of Physics, Hanyang University)

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**Cp-IV-001****Pu/Cm ratio determination with Gamma-ray Spectroscopy**

PARK Se-Hwan, EOM Sung-Ho, SHIN Hee-Sung, KIM Ho-Dong(Korea Atomic Energy Research Institute)

**Cp-IV-002****Quantum dot을 첨가한 플라스틱 섬광체 개발 / 박정민, 김홍주, 김도형, 박형우, 소중호, 황용석, 김민정, 오명진(경북대), 김성환(청주대)****Cp-IV-003****중성자 선속 측정용 Long counter에 대한 Monte Carlo Modelling**

박중헌, 김기동, 우형주(한국지질자원연구원)

**Cp-IV-004****Design of Neutron Production Target for KAERI TOF Facility**

SONG Tae-Yung, PARK Se-Hwan, BYUNG CHEOL Lee, YOUNG-OUK Lee (Korea Atomic Energy Research Institute)

**Cp-IV-005\*****광-PIN 다이오드 센서와 섬광물질을 결합한 검출기의 특성과 방사선 손상에 의한 전기적 특성변화 / 배재범, 가동하, 김현옥, 김홍주, 박환배, 현호정(경북대)****Cp-IV-006****Bench marking of production cross sections calculation for projectile fragmentation using three Monte Carlo code : GEANT4, FLUKA and PHITS**

SHIN JaeWon, HONG Seung-Woo (Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea)

**Cp-IV-007****Spin polarization response functions in  $(e, e' p)$  reaction / KIM Kyungsik, KO Yongkyu(한국항공대)****Cp-IV-008****Importance of The Doppler Effect for The Precision Measurement of The  $^{29}\text{Si}$  Binding Energy**

KO Yongkyu, KIM kyungsik(Korea Aerospace University, School of Liberal Arts and Science)

**Cp-IV-009**

**Search for new resonance peaks in  $^{155}\text{Gd}$  and  $^{157}\text{Gd}$**  / KANG Yeong-Rok, RO tae-Ik(Dong-A Univ.), LEE ManWoo, KIM Guinyun(Kyungpook Nat. Univ.), D.P Barry, M.J Rapp, D WILLIAMS, Y Danon(RPI)

**Cp-IV-010\***

**Resonance Parameter Measurements and Analysis of  $^{162}\text{Dy}$ ,  $^{164}\text{Dy}$ .**  
KIM Hyo Jin, KANG Y.R, RO T.I(Dong-A Univ), LEE M.W, KIM G.N(Kyungpook Nat. Univ), LEE J.H(Dong-eui Univ), LEE S.Y(Dongseo Univ), D.P Barry, M.J Rapp, D. Williams, Y. Danon(RPI)

**Cp-IV-011**

**Calculation of spallation neutron spectra with Monte Carlo codes** / 신재원, 홍승우, 김도윤, 박상인, 김영선(성균관대)

**Cp-IV-012**

**A Study on the Characteristics of Beryllium Isotopes by Using Extended Optical Model Analyses at Near-coulomb-barrier Energies** / 이수연(동의대), 소운영(강원대)

**Cp-IV-013\***

**Neutron Capture Measurement and Resonance Parameter Analysis of  $^{161}\text{Dy}$ ,  $^{163}\text{Dy}$  at the RPI LINAC** / CHOI H.Y, KANG Y.R, RO T.I(Dong-A Univ), LEE M.W, KIM G.N(Kyungpook Nat. Univ), LEE J.H(Dong-eui Univ), LEE S.Y(Dongseo Univ), D.P Barry, M.J Rapp, D. Williams, Y. Danon(RPI)

**Cp-IV-014**

**Analysis of Neutron Beam Test with a hadron calorimeter in K0to J-parc E14** / 고재우, 김용주, 우종관(제주대 물리학과), 안정근, 백광운(부산대 물리학과), 이호상(서울대), 임계엽(KEK), 김은주(전북대 물리교육학과), 정명신(한양대)

**Cp-IV-015**

**The study of trap parameters of thermoluminescence glow peaks in quartz** / HONG Duk-Geun(Department of Physics, Kangwon National University), KIM Ki-Bum(Cyclotron Research Institute, Kangwon National University)

**Cp-IV-016**

**Bound states in  $L=0$  case using the modified Woods-Saxon potential** / 이수연(동의대), 소운영(강원대)

**Cp-IV-017**

**The result of network diagnosis with TRD super-modules in**

**ALICE experiment / KIM Minwoo**(Nuclear Physics Lab. at Yonsei Univ.)

**Cp-IV-018**

**Yrast energies in even-even nuclei and the N<sub>p</sub>N<sub>n</sub> scheme**

KIM Dooyoung, CHA Dongwoo(Inha University. Department of physics)

**Cp-IV-019**

**양성자사업단에서 운영중인 이온빔 장치 가동시 발생하는 X-선 분석**

나세진, 정명환, 길재근, 김형진, 김계령(한국원자력연구원)

**Cp-IV-020**

**Nal-검출기의 반응함수 분석 / 맹성진, 이상훈**(경북대)

**Cp-IV-021**

**전자빔 조사를 이용한 TiO<sub>2</sub> 광촉매의 물분해 특성 변화 / 금종민**(KAIST),

강민구, 김동진, 김도현, 성재호(한국과학영재학교), 조성오(KAIST)

**Cp-IV-022**

**Simulation of a <sup>60</sup>Co therapy unit using GEANT4 / SHIN JaeWon**

(Department of Physics, Sungkyunkwan University, Suwon 440-746, Korea), LEE

Chung-II(Department of Biomedical Engineering, the Catholic University of

Korea), HONG Seung-Woo(Department of Physics, Sungkyunkwan University,

Suwon 440-746, Korea), SUH Tae-Suk(Department of Biomedical Engineering,

the Catholic University of Korea), HAHN I.S(Department of Science Education,

Ewha Woman's University, Seoul 120-750)

**Cp-IV-023\***

**Heat flow studies in low temperature detectors / 김일환, 김용함, 이**

민규, 이경범, 이상준, 이준서, 장용식, 윤원식, 김민성(한국표준과학연구원)

**Cp-IV-024\***

**Development of Cryogenic Alpha Spectrometers Using Metallic**

**Magnetic Calorimeters / 장용식**(경북대), 김민성, 김용함, 김일환, 윤원식,

이경범, 이민규, 이상준, 이준서(한국표준과학연구원), 이형철(경북대)



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## Fp-IV-001

강우량이 하천 그물망의 유량 분포에 미치는 영향 / 채희승, 김엽, 육순형, 박주용(경희대)

## Fp-IV-002

**Properties and A Model of the Plant-Pollinator Networks**

LEE Jae Woo, LEE Deok-sun, MAENG Seong Eun(인하대)

## Fp-IV-003

다중 k-평균 알고리즘을 이용한 복잡계 네트워크의 모듈 분석

김은연, 고태욱(국가수리과학연구소, 계산수리과학연구부, 뇌기능판독팀)

## Fp-IV-004\*

**Overlapping communities in complex networks** / 김영도, 정하웅

(KAIST, 물리학과)

## Fp-IV-005

생물학적 종의 상호작용 구조와 다양성의 발현 / 한범희, 김엽, 육순형(경희대)

## Fp-IV-006

**Efficiency of the information flow in volume spaces** / 이선영, 김민

재, 김수용(한국과학기술원, 물리학과), 김경식(부경대)

## Fp-IV-007\*

**Confinement Effect on Dielectric Relaxations in 3wt% of Water-Galactose Mixture** / SHIN Dong-Myeong, KWON Hyun-Joung, KIM

Hyung Kook, HWANG Yoon-Hwae(Pusan National University, Department of Nanomaterials Engineering & Department of Nanofusion Technology)

## Fp-IV-008\*

**Core-Periphery Disparity in Fractal Behavior of Complex**

**Networks** / MOON Joon-Young, LEE Dong-Myung(POSTECH, Dept. of Physics), KOOLEN Jack H.(POSTECH, Dept. of Mathematics), KIM Seunghwan(POSTECH, Dept. of Physics)

## Fp-IV-009

**Evolution of the Inherent Structure in Korean Financial Markets**

안상현, 임규창, 김수용(한국과학기술원, 물리학과), 김경식(부경대)

Fp-IV-010

**Nonlocally-correlated Parallel Search Algorithm Inspired by Slime Mold Amoeba** / KIM Song-Ju, AONO Masashi, HARA Masahiko  
(RIKEN-HYU Collaboration Research Center, RIKEN Advanced Science Institute)

Fp-IV-011

**Effect of clustering analysis on optimal portfolio theory in financial markets** / 오갑진, 임규빈(조선대)

Fp-IV-012

**Measuring market efficiency of agricultural products in Korean market** / 김홍석(포항공대), 오갑진(조선대), 김승환(포항공대)

Fp-IV-013

**Diffusive epidemic process with hard-core interaction on complex networks** / KIM Junghwa, KWON Sungchul, KIM Yup(경희대)

Fp-IV-014

**Explosive Percolation on Square Lattice** / CHOI Woosik, YOOK Soon-Hyung, KIM Yup(경희대)

Fp-IV-015\*

**Ising Model on the Fractal Hierarchical Scale-Free Lattices**  
MOON Joon-Young, PARK Mijin, KIM Seunghwan(POSTECH, Dept. of Physics)

Fp-IV-016

**Role of temperature in critical behavior of the CLG and its universality issue** / KWAK Wooseop(Department of Physics, Chosun University), HA Meesoon(Department of Physics, KAIST)

Fp-IV-017

**The relation between Eq-RC model and CNRSOS model on fractal substrates** / 김진민, 김대호(숭실대 물리학과)

Fp-IV-018\*

**A experiment of fluctuating interface in homogeneous media**  
SHIN Ho Sim, JUNG Na Ri, KIM Hyun-Joo(Korea National University of Education, Department of Physics Education)

Fp-IV-019

**입자간 순수 반발상호작용에 의해 일어나는 2차원에서의 자발적 구조형성**  
정희승, 권희영, 홍상신, 부경미, 원창연(경희대)

Fp-IV-020\*

**Higher Order Propagators for Path-integral Monte Carlo Study:**

**Application to Quantum Quadrupolar Rotors / 박성진, 권용경(건국대)**

**Fp-IV-021**

**Sensory Information Pathway On The Macaque Cortical Network**

LEE Soo-hyun(포항공대 물리학과)

**Fp-IV-022**

**Maze Solving by Two-dimensional Nonlinear Fabry-Perot**

**Interferometer / OKABAYASHI Youichi, ISOSHIMA Takashi, KIM Song-Ju,**

**NAMEDA Etsushi, HARA Masahiko(RIKEN-HYU Collaboration Research Center, RIKEN Advanced Science Institute)**

**Fp-IV-023**

**Dynamics of Noise Driven Excitable Neuronal System On The**

**Macaque Cortical Network / LEE Dongmyeong(Department of Physics,**

**Pohang University of Science and Technology), KWON Okyu(Asia Pacific Center**

**for Theoretical Physics, Pohang), KIM Seunghwan, LEE Sang-Gui(Department**

**of Physics, Pohang University of Science and Technology)**

**Fp-IV-024**

**Surface Conditions for a Self-Running Oil Droplet / NAMEDA**

**Etsushi, OKABAYASHI Youichi, ISOSHIMA Takashi, HARA Masahiko(RIKEN-**

**HYU Collaboration Research Center, RIKEN Advanced Science Institute)**

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**Hp-IV-021****레이저 플라스마 입자 신호의 외부 전기장에 따른 특성 분석**

박상순, 이성만, 김경남, 차형기(한국원자력연구원)

**Hp-IV-022****Current activities of integrated research support in the field of fusion energy development and national user facilities in NRF**

BAE Song-Hyo(National Research Foundation)

**Hp-IV-023****핵융합기초 및 인력양성지원사업 성과분석 조사 / 노유진, 정보현, 김임경, 배성호, 노승정(한국연구재단)****Hp-IV-024****양성자빔을 이용한 Ag 나노입자 제조 / 길재근, 김계령, 정명환, 나세진(한국원자력연구원 양성지기반공학기술개발사업단)****Hp-IV-025\*****Surface Modification of Polyimide and PET film by Plasma Source Ion Implantation / 박병재, 김지현, 조무현, 남궁원(포항공대), 김상중, 유효열(다원시스)****Hp-IV-026****N<sub>2</sub>-Ar 유도결합 플라스마에서 E-H mode transition 특성 연구**

이영욱, 이혜란, 정태훈(동아대)

**Hp-IV-027****E-H mode transition에 따른 Ar-O<sub>2</sub> 유도 결합 플라스마의 특성연구**

이영욱, 이혜란, 정태훈(동아대)

**Hp-IV-028****공급된 파워의 세기와 유량의 변화가 박막의 결정성 미치는 영향**

이봉주, 정진(조선대)

**Hp-IV-029****스퍼터를 이용한 Al/ZnO<sub>2</sub> 박막의 성장 조건에 관한 연구 / 이봉주, 정진(조선대)****Hp-IV-030****기판온도와 증착시간의 변화가 ZnO<sub>2</sub> 입자 형태에 미치는 효과 / 이봉주**

(조선대)

#### Hp-IV-031

RF Sputter를 이용한 ZnO<sub>2</sub> 박막에 미치는 변수에 관한 연구 / 이봉주(조선대)

#### Hp-IV-032\*

Measurement of EUV emissions and plasma diagnostics in a coaxial electrodes with Argon and Ne-Xe(30%) gas for EUV lithography / 최은하, 이승희, 홍영준, 엄환섭(광운대)

#### Hp-IV-033\*

Comparisons between hybrid simulation and PIC/MCC simulation in dual frequency capacitively coupled plasma / 이재구, 김정형(포항공대)

#### Hp-IV-034\*

PIC simulation Code development of Capillary discharge for LWFA / 신동원, 허민섭(울산과학기술대), 석희용(광주과학기술원)

#### Hp-IV-035\*

Terahertz radiation emitted from laser-induced plasmas / 석희용(광공학응용물리제학부, 고등광기술연구소, 광주과학기술원), 장도근, 김진주, 남인혁(광공학응용물리제학부, 광주과학기술원)

#### Hp-IV-036

RF-Magnetron sputtering 방법으로 증착한 금속 PCB용 AlN 절연층의 열처리 효과 / 박정식, 장지원, 김동영, 서성보, 배강, 손선영(대구가톨릭대), 김용모, 김갑석(KI-Ximax), 김화민(대구가톨릭대)

#### Hp-IV-037

Unstructured grid에 대한 Poisson's equation solver 개발 / 송인철, 배효원, 김동현, 이호준, 이해준(부산대)

#### Hp-IV-038

플라즈마 처리에 의한 원뿔형 다중벽 탄소나노튜브 다발의 전계방출 특성  
임선택, 김곤호(서울대)

#### Hp-IV-039\*

상압플라즈마를 이용한 대면재 용사 코팅법 개발 / 진영길(서울대)

#### Hp-IV-040\*

대기압 아르곤 마이크로웨이브 플라즈마 방전에서 스트리머 채널 형성에 대한 기초연구 / 이진영, 김곤호(서울대)

**Hp-IV-041\***

플라즈마를 이용한 수핵분해에 대한 분해효율 증대연구 / 윤성영, 장윤창, 김곤호(서울대)

**Hp-IV-042\***

고주파 용량성 결합 플라즈마 장치(CCP)의 전극 위상차에 따른 플라즈마 발생 특성 변화 연구 / 최명선, 이석환, 김곤호(서울대)

**HP-IV-043\***

**Effects of Wigglers and Undulators on the Beam Dynamics for the PLS-II** / 이충희, 김정기, 신승환, 윤무현(포항공대)

**Hp-IV-044\***

고전압 펄스 시스템 ‘천둥’을 이용한  $N_2$ ,  $SF_6$  혼합기체에서의 체적 및 표면방전 현상 연구 / 최은하, 변용성, 송기백, 엄환섭(광운대)

**Hp-IV-045**

**Low Charge Emittance Study of PAL X-FEL Injector** / 임창묵(POSTECH), 강흥식(PAL), 고인수(POSTECH)

**Hp-IV-046**

**Simulation Study on the Emittance Increase due to RF Asymmetry** / 채문식, 박용운, 고인수(포항공대)

**Hp-IV-047**

**Simulation Study of Atto-second X-ray Free Electron Laser** / 강흥식(포항가속기연구소)

**Hp-IV-048**

**High Power Beam Test of a 1.6-Cell Photocathode RF Gun at Pohang Accelerator Laboratory** / HONG JUHO, MOON SUNG-IK, PARC YOUNG-WOON, KO IN SOO, CHO MOOHYUN(POSTECH), PARK SUNG-JU, KIM CHANGBUM, PARK YOUNG-JUNG, KIM SEUNG-HWAN, NAMKUNG WON(Pohang Accelerator Laboratory)

**Hp-IV-049**

우라늄 +32, +33, +34가 전하 상태 이온의 RFQ 동시 가속에 대한 기초 연구 / 조용섭, 장지호, 권혁중, 김한성(한국원자력연구원 양성자기반공학기술개발사업단), 이용영, 고승국(한국가속기및플라즈마연구협회)

**Hp-IV-050**

**A Ray Tracing Analysis of Low Energy Electron and Positron Beam** / 김재홍, 박연수, 양태건(한국원자력의학원, 가속기이용기술개발팀)

#### Hp-IV-051

**Vertical Test of Five-Cell SRF Cavity for PEPF / KIM Han-Sung, KWON Hyeok-Jung, SEOL Kyung-Tae, CHO Yong-Sub(Korea Atomic Energy Research Institute)**

#### Hp-IV-052

**Design And Characterization Of The New Button Type Beam Position Monitor System For PLS-II / LEE so jeong, HONG ju ho (POSTECH), KIM chang bum, KIM do tae, PARK hong jip(PAL), KO in soo(POSTECH)**

#### Hp-IV-053

**포항방사광가속기 5C1 빔라인의 미세형광 실험 / 길계환, 장성덕, 최효진, 임재홍, 황정연(포항가속기연구소)**

#### Hp-IV-054

**20MeV Proton Beam Phase Measurement by Using BPM**

KWON Hyeok-Jung, SEOL Kyung-Tae, MIN Kyung-Jean, KIM Han-Sung, SONG Young-Gi, JANG Ji-Ho, CHO Yong-Sub(KAERI)

#### Hp-IV-055

**Transient Beam Loading Compensation in L-band Pulsed RF Linac with Intense Electron Beam / 김상훈, 양해룡, 장성덕, 손윤규(포항공대), 오종석(국가핵융합연구소), 조무현, 남궁원(포항공대), 이강옥, 정기형(KAPRA)**

#### Hp-IV-056

**Conceptual Design of Superconducting Driver Linac for KoRIA**

김상훈, 장재호, 양해룡, 조무현, 남궁원(포항공대), 고승국(울산대), 최은미(울산과학기술대), 이강옥, 정기형(KAPRA)

#### Hp-IV-057

**Numerical study of nonlinear electron trajectory in a harmonic wiggler magnetic field / KIM Ki-Bum(Cyclotron Research Institute, Kangwon National University), NAM Soon-Kwon(Department of Physics, Kangwon National University)**

#### Hp-IV-058\*

**Study of the optical configurations due to variable  $\beta^*$  at the different IP at KEK-ATF2 beam line / JANG Si-Won(KNU), PHILIP Bambade(LAL)**

#### Hp-IV-059

**Commissioning of C-band Standing-wave Accelerator for Compact X-ray Source / 양해룡, 김상훈, 박성주(포항공대), 오종석(국가핵융합연구소),**

이강욱, 정기형(한국 가속기 및 플라즈마 연구협회), 조무현, 남궁원(포항공대)

**Hp-IV-060**

**Measurement of Beam Profile and Emittance Using Wire Scanner for the PEPF 20MeV linac** / 홍진석, 윤상필, 김대일, 김한성, 장지호, 권혁중, 조용섭(한국원자력연구원), 노승정(단국대)

**Hp-IV-061**

**Preliminary Design of the Strip-line BPM for the PEPF Proton Linac Beam Line** / 민경진, 박범식, 권혁중, 조용섭(한국원자력연구원)

**Hp-IV-062\***

**Results of beam tests of S-band BPM for KEK-ATF2** / HEO Aeyoung, KIM Eun-San, KIM Hyoung-Suk, SON Dong-Chul(Kyungpook National University), HONDA Yosuke, TAUCHI Toshiaki(High Energy Accelerator Research Organization), LYAPIN Alexey(University College London), BOOGERT Stewart Takashi(Royal Holloway, University of London)

**Hp-IV-063\***

**Interferometric method for measurement of electron density profile inside gas-filled discharge capillary plasma** / JANG Dong G., SUK Hyyong, KIM Min-Seok, JANG Do G.(Graduate Program of Photonics and Applied Physics, Gwangju Institute of Science and Technology), OH Seong Y (Advanced Photonics Research Institute, Gwangju Institute of Science and Technology)

**Hp-IV-064\***

**A Monte carlo Simulation of Bremsstrahlung radiation of Ta converter using laser accelerated electron beam** / LEE Ho Hyoung(KAIST, 물리학과), PARK Seong Hee, JEONG Young Uk, LEE Ki Tae(KAERI), SEO Hee(hanyang University), SHIM Hyun Ha(Korea University), MIN Kyoung Wook(KAIST, 물리학과)

**Hp-IV-065\***

**C-band Constant-impedance Accelerating Structure for PAL-XFEL Linacs** / 이창호, 이희재, 김상훈, 조무현(포항공대), 남궁원(포항가속기연구소)

**Hp-IV-066\***

**Geometry Optimization of Superconducting RF Cavities in KoRIA Driver Linac** / 장재호, 김상훈, 양해룡(포항공대), 최은미(울산과학기술대), 조무현, 남궁원(포항공대), 고승국(울산대), 이강욱, 정기형(KAPRA)

**Hp-IV-067\***

**An injector optimization for high beam transmission rate and injection rate** / 김혜진, 장시원, 김은산(경북대)



**Hp-IV-068\*****X-ray generation with periodically varying plasma density capillary**

DO DUY Tho, SUK Hyyong(Graduate Program of Photonics and Applied Physics, Gwangju Institute of Science and Technology, Gwangju 500-712, Republic of Korea), HUR Min Sup(Department of Electrical and Engineering, UNIST, 100 Banyeon-ri, Eonyang-eup, Ulju-gun, Ulsan Metropolitan City, Republic of Korea), SIRUSI ARVIJ Ali(Graduate Program of Photonics and Applied Physics, Gwangju Institute of Science and Technology, Gwangju 500-712, Republic of Korea)

**Hp-IV-069****Beam selection and matching simulation in a low energy beam transport for a heavy ion linac / JANG Ji-ho, CHO Yong-sub, KWON Hyeok-Jung(KAERI)****Hp-IV-070**

**Design of the Injection System for the PLS-II / KIM MunGyung, SHIN Seunghwan, HWANG Il Moon(포항가속기연구소)**

**Hp-IV-071\*****Thermal Stability of Constant-impedance Accelerating Structure**

이창호, 김상훈, 이희재, 장재호, 조무현(포항공대), 남궁원(포항가속기연구소)

**Hp-IV-072\*****Properties of helium-filled capillary discharge plasma for laser-plasma acceleration / KIM Min-Seok, JANG Do-Geun(Gwangju Institute of Science and Technology, Graduate Program of Photonics and Applied Physics), UHM Han S.(Kwangwoon University, Kwangwoon Academy of Advanced Studies), HWANG Seok Won(Pusan National University, Department of Electrical Engineering), SUK Hyyong(Gwangju Institute of Science and Technology, Graduate Program of Photonics and Applied Physics, Advanced Photonics Research Institute)****Hp-IV-073\*****질소 기체를 이용한 대기압 플라즈마 젯의 표면 처리 연구**

조혜민, 김선자, 정태훈, 배세환(동아대)

**Hp-IV-074\*****Shaping of an Ultraintense Laser Pulse by Using a Thin Foil**

NAM Inhyuk(Graduate Program of Photonics and Applied Physics, Gwangju Institute of Science and Technology, Gwangju 500-712, Republic of Korea), V. KULAGIN VICTOR(Advanced Photonics Research Institute, Gwangju Institute of Science and Technology), HUR Min sup(Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea), SUK Hyyong(Graduate Program of Photonics and Applied Physics, Gwangju Institute of Science and Technology, Gwangju 500-712, Republic of Korea)

2010년 10월 21일 목요일 16:00-18:00

장소: 스키하우스

**Lp-IV-001\*****Telescope camera calibration using Xe and YAP sources in TA Experiment / 신복균, 조은정, 김지현, 김향배, 천병구(한양대)****Lp-IV-002****Radio Imaging at the Ultrasoft to Low states in X-ray Transients**  
KIM Soon-Wook(Korea Astronomy and Space Science Institute), KIM Jeong-Sook(Kyunghee University & Korea Astronomy and Space Science Institute)**Lp-IV-003\*****Simulation of simultaneous events by COREA Prototype System**  
KIM hongki, KWON youngjoon, CHO wooram, LEE seulgi(연세대), LIM sunin, NAM shinwoo, YANG Jongman(이화여대), SHIN jaeik(연세대)**Lp-IV-004\*****Air Shower Core Correction of The Large Ground Array for Cosmic Ray Observation / 조우람, 권영준(연세대 물리학과)****Lp-IV-005****Structure of 22 GHz Masers in Star-forming Regions / KIM Soon-Wook(Korea Astronomy and Space Science Institute), KIM Jeong-Sook(Kyunghee University & Korea Astronomy and Space Science Institute)****Lp-IV-006****Virtex-5 Field Programming Gate Array (FPGA)에서 구현된 First-In First-Out (FIFO)간의 내방사선 성능 비교 / 고대호, 심은섭, 이승현, 이성세, 박종오(한국항공우주연구원)****Lp-IV-007\*****Simulation study of cosmic ray air shower detector for the COREA prototype system / SHIN Jae-ik, KIM Hongki, LEE Seulgi, CHO Wooram, KWON Youngjoon(Yonsei University), LIM Sunin, NAM Shinwoo, YANG Jongman(Ewha Womans University)**

2010년 10월 22일 금요일 09:00-11:00

장소: 스키하우스

**Bp-V-001\*****CS Scanning in the OPERA Experiment** / KIM Ji Hyun, YOON Chun Sil, PARK Byung Do, SONG Jin Sop, PARK In Gon(GNU), KIM Sung Hyun(CNU)**Bp-V-002****Heavy Flavor Physics in LHC era** / 조기현, 남수현, 김정현, 김영진, 배태길(KISTI, 고에너지물리연구팀)**Bp-V-003****SUSY search with trilepton channel from 7 TeV collision at CMS experiment, LHC** / KIM Zero, KIM Jae Yool, LIM In Taek, SONG Sanghyeon, RO Sangryul(Institute for Universe and Elementary Particles, Chonnam National University)**Bp-V-004****FEB LB pulse test of the Endcap RPC at CMS, CERN** / 최영규, 최영일, 조용진(성균관대)**Bp-V-005\*****Density Measurement of Liquid scintillator at RENO** / 서승원, 김병찬, 주경광, 여인성, 김성현, 김재률, 임인택, 장지승, 정인석, 최을임(전남대), 김현수(전북대), 김우영, 도호석, 사무엘 스테파난, 오영도, 세르게이 체보타료프(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대), 강보라, 김동구, 김수봉, 박정식, 신진욱, 양병수, 이재승, 최선호, 최원국(서울대), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), N. Danilov, YU Krylov, G. Novikova, E. Yanovich (INR/IPCE)**Bp-V-006****Prompt analysis for RPC detector in CMS experiment**

서현관, 이종석, 최영일(성균관대)

**Bp-V-007\*****The Performance of Scintillator-based Electromagnetic calorimeter using Test Beam** / KHAN Adil, KIM DongHee, UOZUMI Satoru, KONG Daejung, OH YoungDo, KIM Jieun(WCU Collider Physics Research Kyungpook National University), TAKESHITA Thoru, KOTERA katsushige, NISHIYAMA Miho, SHUNSKKE Tozuka(Shinshu University), KAWAGOWE kiyotomo(Kobe University), FUMIHIKO ukegawa(Tskuba University), SEFKO felix, KAPLAN Alexander(Desy)

**Bp-V-008**

**Analysis of the pileup events in 7 TeV collision data**

NAM Soon-Kwon, HEO Seong-Gu(Kangwon National University)

**Bp-V-009**

**Status of HLT data certification at CMS /** SONG Sanghyeon, KIM

Zero, KIM Jaeyool, LIM Intaek(Chonnam national university), RO Sangryul

(Kyunpook national university)

**Bp-V-010**

**Discovery potential of Doubly Charged Higgs decay to e-mu at**

**CMS experiment /** 고정환, 유인태(성균관대)

**Bp-V-011**

**Neutron background study induced by the cosmic muons in the**

**RENO experiment /** 백승록(성균관대), 김우영, 도호석, 사무엘 스테파난, 오

영도, 세르게이 체보타료프(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산

대), 박강순(서경대), 장한일(서강정보대), 강보라, 김동구, 김수봉, 박정식, 신진

욱, 양병수, 이재승, 최선희, 최원국(서울대), 백승록, 유인태, 최영일(성균관대),

강운구, 김영덕, 마경주, 전은주(세종대), 김병찬, 김성현, 김재률, 주경광, 여인

성, 임인택, 장지승, 정인석, 최을임, 김현수(전남대)

**Bp-V-012**

**Wprime to Electron and Neutrino Search at CMS /** 장성현, 손태진,

공대정, 김지은, UOZMI Satoru, KAMON Teruki, 김동희(WCU), MALBERTI

Martina(INFN, Milano), HOEPFNER Kerstin(RWTH, Aachen)

**Bp-V-013**

**CMS software Validation for High pT Electrons Selection**

**Algorithm /** 손태진, 김동희, 오영도, 장성현, 공대정, 김지은, KHAN Adil,

UOZUMI Satoru, KAMON Teruki(WCU), MALBERTI Martina(INFN Sezione di

Milano), ARNAUDI Gay(ULB)

**Bp-V-014**

**The azimuthal angle studies of MPT and MHT in LHC 7TeV**

**collision data /** NAM Soon-Kwon, HEO Seong-Gu(Kangwon National

University)

**Bp-V-015\***

**Higgs Mass Reconstruction in Dileptonic W Decays with**

**CMSSW /** 견두연, 이병훈(성균관대), 조영권, 최수용(고려대)

**Bp-V-016**

**Shower Containment Correction Studies for CMS Electro-**

**magnetic Calorimetry /** 공대정, 김동희, 장성현(WCU Collider Physics

Research, Kyungpook National University), COCKERILL David(RAL), LEDVOSKOY Alexander(Univiersity of Virginia)

### Bp-V-017

#### New Inversion Method of Moments of Photon Structure Function

KIM Sun Myong, JANG Hun, BOK Eun(Department of Physics, Yonsei University)

### Bp-V-018

#### Gd Loading in the RENO Liquid Scintillator / 강보라, 김동구, 김수봉,

신진욱, 이재승, 양병수, 최원국, 최선호(서울대), 김우영, 도호석, 스테파난 사무엘, 오영도, 체보타료프 세르게이(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대학), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), 김병찬, 김성현, 김재률, 주경광, 여인성, 임인택, 장지승, 정인석, 최을임(전남대), 김현수(전북대), N Danilov, YU Krylov, G Novikova, E Yanovich(INR/IPCE)

### Bp-V-019\*

#### Measurement of Optical Parameters in the RENO Liquid Scintillators / YEO Insung(전남대)

### Bp-V-020

#### Measurement of the Refractive Index of LAB-based Liquid Scintillator and Acrylic at RENO / 여인성(전남대)

### Bp-V-021

#### RENO DAQ System / 양병수, 강보라, 김동구, 김수봉, 박정식, 신진욱, 이재

승, 최선호, 최원국(서울대), 김우영, 도호석, 스테파난 사무엘, 오영도, 체보타료프 세르게이(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), 김병찬, 김성현, 김재률, 주경광, 여인성, 임인택, 장지승, 정인석, 최을임(전남대), 김현수(전북대), DANILOV N., KRYLOV YU, NOVIKOVA G., YANOIVCH11 E.(INR/IPCE)

### Bp-V-022

#### New Results from RENO Mockup Detector / 박정식, 강보라, 김동구,

김수봉, 신진욱, 이재승, 양병수, 최원국, 최선호(서울대), 김우영, 도호석, 스테파난 사무엘, 오영도, 체보타료프 세르게이(경북대), 박인곤(경상대), 박명렬(동신대), 안정근(부산대), 박강순(서경대), 장한일(서강정보대), 백승록, 유인태, 최영일(성균관대), 강운구, 김영덕, 마경주, 전은주(세종대), 김병찬, 김성현, 김재률, 주경광, 여인성, 임인택, 장지승, 정인석, 최을임(전남대), 김현수(전북대), N Danilov, YU Krylov, G Novikova, E Yanovich(INR/IPCE)

### Bp-V-023\*

#### Understanding $^{134}\text{Cs}$ Background in CsI(Tl) Crystals / 이재금, 김선기,

방형찬, OLSEN S.L., 명성숙, 이명재, 김승천, 최정훈, 이주희, 이상준, 류수, 성일수, 김경원(서울대), 김영덕, 강운구, 이정일(세종대), 김홍주, 소중호(경북대), 권영준, 황명진(연세대), 한인식(이화여대), YUE, Q., LI, J., LI, Y.J.(Tsinghua Univ.)

#### Bp-V-024\*

##### **Study of the Quenching Factor and the Channeling Effect in CsI(Tl) and NaI(Tl) Crystals**

이주희, 김선기, 방형찬, OLSEN S.L. 명성숙, 이명재, 김승천, 최정훈, 이상준, 류수, 이재금, 성일수, 김경원(서울대), 김영덕, 강운구, 이정일(세종대), 김홍주, 소중호(경북대), 권영준, 황명진(연세대), 한인식(이화여대), YUE .Q. LI .J. LI. Y.J.(Tsinghua University)

#### Bp-V-025

##### **Preliminary Studies of $B^+ \rightarrow l^+ \nu$ Purely Leptonic Decays at Belle**

권영준, 최경산(연세대)

#### Bp-V-026

##### **Study of $B^0 \rightarrow l^+ \tau^-$ using Untagged Method at Belle / 손영수, 권**

영준(연세대)

#### Bp-V-027\*

##### **Study of $B_s \rightarrow \bar{K}^0 K^{*+}$ Rare B meson decays / 고영문, 윤노 유지, 천**

병구(한양대)

#### Bp-V-028\*

##### **Study of Cascade<sub>C</sub> to Cascade<sup>+</sup> $\Lambda^0$ Charmed Baryon**

Weak Decay / 김성현, 윤노 유지, 천병구(한양대)

#### Bp-V-029

##### **Study of $B \rightarrow Xs \gamma$ Inclusive with Full Reconstruction**

Method at Belle / LIM Cholong, KWON Youngjoon(Yonsei University)

#### Bp-V-030

##### **Fabrication of CDC Test Chamber for the Belle-II Experiment**

김경태, 김재박, 문현기, 이철원, 원은일(고려대)

#### Bp-V-031

##### **3D tracking for the trigger in the Belle-II experiment / 김재박, 김**

경태, 원은일, 고병록(고려대), IWASAKI Yoshihito(KEK)

#### Bp-V-032\*

##### **Grid 환경을 위한 Belle cluster 구축 프로그램 개발과 테스트 / 유병수**

(경상대), 김정현, 조기현(KISTI 슈퍼컴퓨팅본부), 최수경(경상대)

**Bp-V-033**

**Study of Single-sided 3D Silicon Sensor Using Simulation**

서지웅, 유인태(성균관대), 최수용(고려대)

**Bp-V-034**

**CAU MWPC의 신호 분석 / 이지훈, 김시연(중앙대)**

**Bp-V-035**

**Test Results of Prototype Transition Radiation Detector / KIM**

Kyung Sook, LEE Man Woo, KIM Guinyun, KIM Kwangsoo(Center for High Energy Physics, Kyungpook National University, Daegu, South Korea), COMMICHAU Volker, VON GUNTEN Hanspeter, LUSTERMANN Werner, ROESER Ulf, HERRMANN Paul, VIETER Gert M.(ETH Zurich, Labor fuer Hochenergiephysik, Zurich Switzerland)

**Bp-V-036**

**GEM 검출기를 이용한 전자빔 프로파일 측정 / 김일곤, 유동선, 김곤우, 하성용, 추문식, 이은성, 윤득열(창원대)**

**Bp-V-037\***

**Characteristics of PLS 1B2 X-ray Microscopy Beamline / JANG**

Sung Duck, LIM Jae-Hong, KIM Hyo Yun, HUANG Jung Yun, GIL KyeHwan(PAL/POSTECH), CHO Moo-Hyun(POSTECH)

2010년 10월 22일 금요일 09:00-11:00

장소: 스키하우스

**Dp-V-173****Preparation of Transparent Conducting  $\text{CuAlO}_2$  Thin Films by Pulsed Laser Deposition**

배종성, 윤장희, 진종성, 홍경수, 정의덕, 김종필(한국기초과학지원연구원, 부산센터)

**Dp-V-174\*****The Effect of Water Displacement on Near-Infrared Measurements of Glucose in Aqueous Solutions / 황정식, 정영의, 성영찬, 박선영(부산대)****Dp-V-175**중저온용 고체산화물 연료전지 연료극  $\text{Ni}_{1-x}\text{Fe}_x\text{O}/\text{YSZ}$  제조 및 특성 연구  
김영훈, 박선후, 송철호, 김맥, 양용석(부산대)**Dp-V-176\*****Semiconductor characteristic of  $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$  epitaxial film**

SUNGWOO Jo, HYOSANG Kwon, SUNGMIN Park, DOYOUNG Park, JIHWAN Hwang, HYEONSIK Cheong, GWANGSEO Park(Department of Physics, Sogang university)

**Dp-V-177****First principles electronic structure study of high density Bi ternary compounds for thermoelectrics application / TRAN VAN QUANG(Department of Physics, Ajou University, Suwon 443-479), MIYOUNG KIM, HANJO LIM(Division of Energy System Research, Ajou University, Suwon 443-479)****Dp-V-178\*****Effects of PZT buffer layer on phase formation and electrical properties of sol-gel derived  $0.67\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $0.33\text{PbTiO}_3$  thin films / YANG Sun A, CHO Sam Yeon, BU Sang Don(Chonbuk National University, Department of Physics)****Dp-V-179\*****Charge Carrier Transport through Nano-Aperture in Ferroelectric Thin Film of Metal/Insulator(Ferroelectric/Normal insulating)/Metal Junction: Finite Element electrostatic Modeling / 전영은(울산과학기술대)**



**Dp-V-180**

**Thermoelectric properties of tetragonal  $\text{SrCu}_2\text{O}_2$**  / TAMBUNAN OCTOLIA TOGIBASA, KIM Jaeyeong, LEE Bo Wha, JUNG Chang Uk, LIU Chunli(Department of Physics, Hankuk University of Foreign Studies), KIM Il-Ho (Department of Material Science and Engineering, Chungju National University)

**Dp-V-181**

**Thermoelectric effect of  $\text{CeTe}_{2-x}\text{Sb}_x$  single crystals**

KWON Yong Seung, LEE Kyung Eun, MIN Byeong Hun(성균관대)

**Dp-V-182\***

**양성자가 조사된  $\text{Bi}_2\text{Te}_3$ 의 열전효과** / 김진희, 권용성(성균관대), 한준웅(한국 원자력의학원)

**Dp-V-183\***

**$\text{BaTiO}_3$ 와  $\text{Ba}_{1-x}\text{Ca}_x\text{TiO}_3$  강유전체 단결정의 상유전상에서의 탄성 특성 연구** / 김태현(한림대), KOJIMA Seiji(University of Tsukuba, Institute of Materials Science), 박기복(울산과학기술대), 김성백(국민대), 고재현(한림대)

**Dp-V-184**

**High sensitivity ESR by Magnetic Resonance Force Microscopy**

SAUN Seung-Bo, WON Soonho, LEE SangGap, LEE Soonchil(KAIST)

**Dp-V-185**

**Optical properties of  $\text{CuGaSe}_2$  thin films on various substrates**

SEO Y. K., LEE Y. S.(Soongsil University, Department of physics), JEONG A. R., JO W.(Ewha Womans University, Department of physics)

**Dp-V-186**

**P-type electrical conduction and physical properties of  $\text{Cu}_2\text{O}$  ceramics** / KIM Jong-Pil, SEO Hoe-Joo, JIN Jong Sung, YOON Jang-Hee, JEONG Euh Duck, HONG Kyong-Soo, BAE Jong-Seong(Korea Basic Science Institute Busan Center)

**Dp-V-187**

**리튬 이차전지 양극 활용을 위한  $x\text{Li}-y\text{FeMnO}_3$ 계의 열적/전기적 특성 연구** / 최현우, 고재현, 송철호, 김맥, 양용석(부산대)

**Dp-V-188**

**High-Temperature Phase Transformation in  $\text{Rb}_3\text{H}(\text{SO}_4)_2$  by X-ray Powder Diffraction : Objection to the Superprotonic Phase Transition in the Bulk** / OH In-Hwan(Neutron Science Division, Korea Atomic Energy Research Institute), LEE Kwang-Sei(Department of Nano Systems Engineering, Center for Nano Manufacturing, Inje University), PRINZ Sebastian (Institute fuer Kristallographie, RWTH Aachen)

Dp-V-189

**Mn(Co)를 첨가한 다강체 BiFeO<sub>3</sub>의 구조 및 전기적 특성**

최현우, 심동현(부산대), 임영훈(세명대), 윤수종, 양용석(부산대)

Dp-V-190

**중성자 산란 실험을 이용한 비납계 강유전체 Bi<sub>0.5</sub>(Na<sub>1-x</sub>K<sub>x</sub>)<sub>0.5</sub>TiO<sub>3</sub>의 A-site**

**국소 구조 연구 / 김선화, 정일경(부산대), 김일원, 안창원(울산대)**

Dp-V-191\*

**Step overflow of SrRuO<sub>3</sub> thin film / JIHWAN Hwang, SUNGMIN Park,**

**HYOSANG Kwon, SUNGWOON Jo, GWANGSEO Park(Department of Physics,**

**Sogang university)**

Dp-V-192

**GNP법을 이용한 중저온용 고체산화물 연료전지 공기극 La<sub>0.6</sub>Sr<sub>0.4</sub>(Co,M)**

**O<sub>3</sub> (M=Fe, Ni) 제조 및 특성 연구 / 김맥, 송철호, 최현우, 김영훈, 양용석**  
(부산대)

Dp-V-193\*

**Impedance spectroscopy of Pb(Sc<sub>1/2</sub>Nb<sub>1/2</sub>)O<sub>3</sub> ceramics prepared by**

**oxide mixing methods / 현준원, 변재덕, 김연중, 김강배, 윤미영, 류근재**  
(단국대)

2010년 10월 22일 금요일 09:00-11:00

장소: 스키하우스

## Ep-V-065\*

**근자외선 LED에 응용하기 위한  $\text{NaR}(\text{MoO}_4)_2:\text{Eu}^{3+}$  ( $\text{R}=\text{Y, Gd, La}$ ) 적색 형광체 분말특성 연구** / 박성욱, 문병기, 최병춘, 정중현(부경대), 배종성(기초과학지원연구원, 부산센터)

## Ep-V-066\*

**Electromagnetically-Induced Transparency In Symmetric And Asymmetric Metamaterials Based On The Second-Order Magnetic Plasmon Resonance** / X. R. Jin, Y. H. Lu, H. Y. Zheng (Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, Korea), J. Y. Rhee (Department of Physics, Sungkyunkwan University, Korea), Y. P. Lee (Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, Korea)

## Ep-V-067\*

**Synthesis and luminescence properties of  $\text{Sm}^{3+}$  and  $\text{Eu}^{3+}$  codoped lanthanum tungstate phosphor for W-LEDs** / CHEN Yeqing, PARK Sung Wook(부경대), YANG Hyun Kyoung(동의대), JEONG Jung Hyun(부경대)

## Ep-V-068\*

**Coupling Effects In Metamaterials For Highly Dispersive Transparency** / J. W. Park, V. T. T. Thuy, N. T. Tung (Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, Korea), J. Y. Rhee (Department of Physics, Sungkyunkwan University, Korea), Y. P. Lee (Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, Korea)

## Ep-V-069

**Luminescent properties of  $\text{GdPO}_4:\text{Ce}^{3+}, \text{Tb}^{3+}$**  / CAO Chunyan, CHEN Yeqing(부경대), YANG Hyun Kyoung(동의대), MOON Byung Kee, CHOI Byung Chun, JEONG Jung Hyun(부경대)

## Ep-V-070

**Record-high output power from photonic crystal band-edge lasers** / SUNGHWAN Kim, SUNGMO Ahn, JEONGKUG Lee, HEONSU Jeon (Department of Physics and Astronomy, Seoul National University)

## Ep-V-071

**Optical Cooling and Self-excitation of an Ultrasoft Silicon Cantilever**

**at 15 K /** CHOI heonhwa(Center of Emerging Measurement Standards, Korea Research Institute of Standards and Science, Daejeon, Korea ; Department of Nano Science, University of Science and Technology, Daejeon, Korea), KIM yunwon (Center of Emerging Measurement Standards, Korea Research Institute of Standards and Science, Daejeon, Korea ; Department of Display and Semiconductor Physics, Korea University, Jochiwon, Chungnam, Korea), KIM jiyong(Center of Emerging Measurement Standards, Korea Research Institute of Standards and Science, Daejeon, Korea), LEE soongul(Department of Display and Semiconductor Physics, Korea University, Jochiwon, Chungnam, Korea), CHOI jaehyuk(Center of Emerging Measurement Standards, Korea Research Institute of Standards and Science, Daejeon, Korea ; Department of Nano Science, University of Science and Technology, Daejeon, Korea)

**Ep-V-072**

**Enhanced Photoluminescence from Photonic Crystal Light-emitting Structures /** 민경택, 최윤경, 김한빛, 전현수(서울대)

**Ep-V-073**

**Relaxed Condition For The Magnetic Component Of Meta-materials /** V. T. T. Thuy, J. W. Park, X. R. Jin, Y. P. Lee(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, 133-791 Korea)

**Ep-V-074\***

**Electrical Properties of Al-doped ZnO Thin Film by Pulsed Laser Deposition /** 차국린, 문효식, 이승관(서울대)

**Ep-V-075\***

**B, BF<sub>2</sub> 이온 주입시 beam current에 따른 Si(100)의 표면 특성 변화**  
김형인, 정영완, 허나리, 강석태(연세대)

**Ep-V-076\***

**The study of out-diffusion of In and P atoms of atomic-layer-deposited HfO<sub>2</sub> film on n-InP (001) /** KANG Yu-Seon, KIM Chung-Yi, CHO Mann-Ho(Yonsei univ. physics), CHUNG Kwun-Bum(Dankook univ. physics), KIM Hyung-Sub(Sungkunkwan univ. physics), LEE Tae-geol(Korea Research Institute of Standards and Science (KRISS)), KO Dae-Hong(Yonsei univ. ceramic)

**Ep-V-077**

**Optical properties of the (Y, Gd)BO<sub>3</sub>:Eu<sup>3+</sup> phosphor by dual-coating of oxide nano-particles /** 서정현, 손상호(경북대)

**Ep-V-078**

**XRR을 이용한 HfO<sub>2</sub> 박막의 구조특성 분석 /** 빈석민, 유병윤(충남대), 김창

수(한국표준과학연구원), 오병성(충남대)

#### Ep-V-079

**New Ambient Pressure Photoemission Endstation at ALS Beamline 9.3.2** / MUN Bongjin, GRASS Michael(한양대), KARLSSON Patrik(VG Scienta), AKSOY Funda, HUSSAIN Zahid, ZHI Liu(Advanced Light Source, Lawrence Berkeley National Lab), LUNDQVIST Måns, WANNBERG Björn(VG Scienta)

#### Ep-V-080

**TiO<sub>2</sub> 광전극의 산화물 코팅에 따른 DSSC의 특성 연구** / 이호석, 최석철, 손상호(경북대)

#### Ep-V-081

**가스센서용 WO<sub>3</sub> 박막의 제작 및 특성 연구** / 오철민, 배가람, 장은혜, 김진영, 강준희(인천대)

#### Ep-V-082

**Electrical Breakdown near the Contact between Metal and Dielectric** / 정문성, 금관필, 구자훈, 장유진, 천중필(울산대)

#### Ep-V-083

**X-선 반사율 측정법을 이용한 이온빔 스퍼터 박막의 특성평가**  
유병윤, 빈석민(충남대), 김창수(한국표준과학연구원), 오병성(충남대)

#### Ep-V-084

**전자빔(Electron-beam)을 이용한 PTFE 박막의 소수성 조절**  
조대희, 차정옥, 안정선(경희대)

#### Ep-V-085

**CdS:Cu 박막의 구조와 광학적 특성** / 서동주, 박정복, 오상미, 김고은, 이소리, 박정희(조선대), 김건호(경상대)

#### Ep-V-086\*

**Magnetic-Reversal Studies Of Co/Ni Bilayered Anti-Dot Arrays**  
N. G. Deshpande, M. S. Seo, J. M. Kim, S. J. Lee(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, 133-791 Korea), J. Y. Rhee(Department of Physics, Sungkyunkwan University, Korea), K. W. Kim(Department of Information Display, Sunmoon University, Asan, Korea), Y. P. Lee(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, 133-791 Korea)

#### Ep-V-087\*

**Study of unexpected spin-dependent transport phenomena in granular TbN-Co films**

CHOI changho(Department of physics, sogang university), KIM Taewon(Department of Advanced Materials Engineering, Sejong University), LEE Kyujoon(Department of physics, sogang university), YOON Jungbum, YOU Chun-Yeol(Department of Physics, Inha University), JUNG Myung-Hwa(Department of Physics, Sogang University)

**Ep-V-088\***

**열처리 시 산소 분압에 따른 Co 도핑된 PbPdO<sub>2</sub> 박막의 특성 변화 /** 추성민, 이규준, 박성민(서강대), 조영훈(한국기초과학지원연구원 나노물성팀), 박광서, 정명화(서강대)

**Ep-V-089\***

**Pb계 산화물의 열전 특성 /** 김수현, 이규준, 추성민(서강대 물리학과), SAIGA Yuta, TOSHIRO Takabatake(Hiroshima university ADSM), 정명화(서강대 물리학과)

**Ep-V-090**

**Dynamics Of Spin Glass In ZnFe<sub>2</sub>O<sub>4</sub> Nanoparticles /** Y. Ying, J. M. Kim, Y. P. Lee(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, 133-791 Korea)

**Ep-V-091**

**Magneto-Transport Studies of 2-Dimensional Spin-Photonic Crystal of Co/Ni Circular Anti-Dots /** M. S. Seo, N. G. Deshpande, S. J. Lee, Y. P. Lee(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, 133-791 Korea), J. Y. Rhee(Department of Physics, Sungkyunkwan University, Korea), K. W. Kim(Department of Information Display, Sunmoon University, Asan, Korea)

**Ep-V-092**

**Graphite Oxide의 수소 가스 센스 응용 /** 홍혁기, 방성우, 이인열, WANG Jianwei, 김길호(성균관대)

**Ep-V-093**

**Temperature-Dependent Magnetoresistance In ZnO Thin Film**  
D. F. Wang, V. T. T. Thuy, J. M. Kim, M. S. Seo, Y. P. Lee(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, Korea)

**Ep-V-094**

**Diffacted Magneto-Optical Kerr Effect Of Two-Dimensional Co Anti-Dot Structure /** H. Y. Zheng, N. G. Deshpande, Y. H. Lu, X. R. Jin(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, 133-791 Korea), J. Y. Rhee(Department of Physics, Sungkyunkwan University, Korea), Y. P. Lee(Quantum Photonic Science Research Center and Physics Department, Hanyang University, Seoul, 133-791 Korea)

**Ep-V-095\***

**CNT network field effect transistor and dielectrophoretic manipulation for bacteria detection** / PARK Dong-Won(Korea Research Institute of Chemical Technology, NanoBio Fusion Research Center), KIM Beom Soo(Chungbuk National University, Department of Chemical Engineering), KONG Ki-jeong, CHANG Hyunju, LEE Jeong-O(Korea Research Institute of Chemical Technology, NanoBio Fusion Research Center)

**Ep-V-096\***

**나노 플라워 tungsten oxid(WO3)를 이용한 전기 변색** / 김도형, 김도윤 (경북대)

**Ep-V-097\***

**Top-gated ZnO Nanowire Transistors and Logic Inverter with Stability-Improved Channel/Dielectric interface** / 임성일, 이영택, 이광현, 하룡, 최현진(연세대)

**Ep-V-098\***

**Simple Fabrication Of Single-wall Carbon Nanotube Network Field Effect Transistors By Using The Scotch Tape** / KIM Yongha, JOO Min Kyu, JEON Dae-Young, KANG Pilsoo, KIM Jae-Sung, ROTH Siegmar, DETTLAFF-WEGLIKOWSKA Urszula, KIM Gyutae(School of Electrical Engineering, Korea University)

**Ep-V-099\***

**Exploration of Mobility as a Function of Channel Length in Thin Film Transistor Based on SWNT Networks** / JUNG Younsu, OH Hwangyou (Printed Electronics in World Class University Program, Suncheon National University), JUNG Minhun(Depratment of Chemical Engineering, Suncheon National University), LEE Kwangyoung, JUNG Kyunghwan(Printed Electronics in World Class University Program, Suncheon National University), LIM Soyeon, KIM Daeae(Paru Printed Electronics Research Institute, PARU Co. Ltd.), CHO Gyoujin(Printed Electronics in World Class University Program, Suncheon National University)

**Ep-V-100\***

**Photo-Thermoelectric Generator with a Water Heating System**

LEE Kang Hyuck, PARK Hyun-Kyu(School of Advanced Materials Engineering & Science, Sungkyunkwan University, 300 Cheoncheon-dong, Jangan-gu, Suwon 440-746, Republic of Korea), KIM Sungjin(School of Advanced Materials and System Engineering, Kumoh National Institute of Technology, 1 Yangho-dong, Gumi, Gyeongbuk 730-701, Korea), KIM Sang-Woo(School of Advanced Materials Engineering & Science, Sungkyunkwan University, 300 Cheoncheon-dong, Jangan-gu, Suwon 440-746, Republic of Korea)

**Ep-V-101\***

**사각형의 조도분포를 형성하는 LED 조명에 대한 연구** / 이병우, 고재현(한림대)

**Ep-V-102\***

**Logic inverter based on ZnO-TFTs with work function difference of top gate electrodes /** 임성일, 류보람, 박찬호, 이영택(연세대), 한기복, 성명모(한양대)

**Ep-V-103\***

**Semi-transparent p-NiO<sub>x</sub>/n-ZnO diode for the UV Photo Detector**  
LEE Kyungha, LEE Kwanghyun, IM Seongil(연세대)

**Ep-V-104\***

**A New Floating Gate Memory Device Made of MEMS bridge switch and Carbon Nanotube Field Effect Transistor /** PARK Seung Joo(Department of Nano Science and Technology, Seoul National University), LEE Sang Wook(Department of Physics, Konkuk University), CAMPBELL Eleanor E. B.(School of Chemistry, Edinburgh University), BAEK Seung Jae (Department of Nano Science and Technology, Seoul National University), PARK Yung Woo(Department of Physics and Astronomy, Seoul National University)

**Ep-V-105\***

**High Resolution Photonic Force Microscope Using Fluorescence Resonance Energy Transfer /** CHO Yong-Hoon, HEO Seung-Jin, KIM Kipom(KAIST)

**Ep-V-106\***

**온도 변화에 의한 레이저 빛의 편향을 이용한 액체의 열확산도 측정**  
정주호, 김석원(울산대)

**Ep-V-107\***

**The mechanical properties of ZnO wire measured by resonance frequency measurement system /** UNSEOK JUNG, JINKYUNG LEE, HAKSUNG KIM, SANGWOOK LEE(Division of Quantum Phases & Devices, School of Physics, Konkuk University)

**Ep-V-108\***

**The Effect of Al<sub>2</sub>O<sub>3</sub> Insulator Layer in Artificial Bilayer Graphene**  
YUN Hoyeol(Division of Quantum Phases & Devices, School of Physics, Konkuk University), KIM Youngwook(Department of physics, Pohang University of Science and Technology), SEO Sunae(Samsung Advanced Institute of Technology), SEO Miri, KANG Daeyun(Division of Quantum Phases & Devices, School of Physics, Konkuk University), KIM Jun sung(Department of physics, Pohang University of Science and Technology), LEE Sangwook(Division of Quantum Phases & Devices, School of Physics, Konkuk University)

**Ep-V-109\***

**광음향 측정법을 이용한 Sn-3.0Ag-0.5Cu 솔더볼의 열확산도 측정 /** 추민



우, 김석원(울산대)

#### Ep-V-110

전자 주입층 lithium-carbonate를 이용한 유기 발광 소자의 효율 향상 및 수명에 관한 연구 / 목량근, 김태완, 한원근(홍익대), 장경욱(경원대), 홍진웅(광운대)

#### Ep-V-111

**Annealing Effect On External Quantum Efficiency Of P3HT: PCBM Bulk Hetero Junction Solar Cells** / AN Jong Deok(Department of Chemistry, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea, Konkuk University-Fraunhofer Next Generation Solar Cell Research Center, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), LEE Myoung Hee, PARK Hoon(Konkuk University-Fraunhofer Next Generation Solar Cell Research Center, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), OH Sang Min(Department of Chemistry, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), IM Chan(Department of Chemistry, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea, Konkuk University-Fraunhofer Next Generation Solar Cell Research Center, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea)

#### Ep-V-112

정공수송층과 발광층 계면에 나타나는 exciplex발광을 이용한 유기발광 소자의 색 변환 / 이광섭, 추동철, 김태환(한양대)

#### Ep-V-113

**Difference of memory margin by polymer mobility for Nonvolatile Polymer Memory-cells** / LEE Jung-Nam, LEE Jong Dae, SEUNG Hyun Min, KWON Kyoung-Cheol, LIM Jae-Sung, PARK jea-gun(Hanyang University, Electronics Computer Engineering)

#### Ep-V-114

고분자 비에 따른 다공성 박막 발광층을 사용한 혼성 백색 유기발광 소자의 광학적 성질 변화 / 고요섭, 전영표, 추동철, 김태환(한양대)

#### Ep-V-115

**Reusable Microfluidic Electrochemical DNA Sensor** / 조해명, 이은철(경원대)

#### Ep-V-116

**Study on Annealing Effect Upon P3HT:PCBM Blend Films**

LEE Myoung Hee, LEE Sun Ae(Konkuk University-Fraunhofer Next Generation Solar Cell Research Center, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), AN Jong Deok(Department of Chemistry, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), PARK Hoon(Konkuk

University-Fraunhofer Next Generation Solar Cell Research Center, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), IM Chan(Department of Chemistry, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea)

#### Ep-V-117

무기물 이중 전자주입층을 사용한 녹색 유기발광소자의 계면쌍극자 효과에 의한 전자주입 효율 향상 메커니즘 / 황정현, 추동철, 김태환(한양대), 서지현, 김영관(홍익대)

#### Ep-V-118

수중 초음파 통신을 위한 음파의 컨트롤러의 제작 및 설계 / 박한영, 김진영, 강준희(인천대)

#### Ep-V-119

Real-time Vacuum UV Spectroscopic Ellipsometer를 이용한  $ZrO_2$ 의 결정화 연구 / 정재욱, 박준호, 경재선, 천혁녕, 안일신(한양대)

#### Ep-V-120

다중 이중구조의 전자수송구조를 사용한 유기 발광소자에서 발광 효율 향상 / 박수형, 추동철, 김태환(한양대), 김영관(홍익대)

#### Ep-V-121

감마선 영상을 위한 LYSO 섬광검출기 특성 연구 / 주관식, 전상준, 박진훈, 문혜진(명지대)

#### Ep-V-122

Study on the Design of Superconducting Magnet for Levitation Experiment / 원성식, 김동락, 최연석(한국기초과학지원연구원 물성과학연구부)

#### Ep-V-123

$Li^+$ 가 첨가된  $KNbO_3:Eu^{3+}$  형광체 분말의 형광특성 / 이성수, 이동기, 정진우(신라대), 장기완, 이호섭(창원대), 정중현(부경대)

#### Ep-V-124

Annealing Effect On External Quantum Efficiency Of P3HT: PCBM Bulk Hetero Junction Solar Cells / AN Jong Deok(Department of Chemistry, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), LEE Sun Ae, LEE Myoung Hee, PARK Hoon(Konkuk University-Fraunhofer ISE Next Generation Solar Cell Research Center, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea), IM Chan(Department of Chemistry, Konkuk University, 1 Hwayang-dong, Gwangjin-gu, Seoul 143-701, Korea)

#### Ep-V-125

Gas Electron Multiplier 검출기의 방사선 영향

박광준(한국원자력연구원), PARK Seongtae, WHITE Andrew, YU Jaehoon(UTA),

신희성(한국원자력연구원)

#### Ep-V-126

**Current overflow observed during electrometer calibration by use of a capacitive low current source / 김단비, 이철영, 김완섭, 김문석, 김규태(한국표준과학연구원)**

#### Ep-V-127

**컴퓨터 시뮬레이션을 이용한 탄소나노구조 위에 아미노산의 흡착 특성 및 상호작용에 대한 이론 연구 / 김수신, 조용우, 안세웅, 이승훈, 천세화(경기대학교), 박소라(경희대), 김민수(경기과학고), 권영균(경희대)**



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## **학부생 작품발표회**



1차 : 2010년 10월 21일(목) 16:00-18:00

장소 : 스키하우스

2차 : 2010년 10월 22일(금) 09:00-11:00

장소 : 스키하우스

### 수도권-1

고급물리실험용 소형 drift chamber / 문현기, 이동현, 이철원, 이보현, 원은일(고려대)

### 수도권-2

Physical properties of Ce-doped ZrO<sub>2</sub> film : Study of first principle / 정광식, 조만호(연세대)

### 수도권-3

백색광 간섭계를 이용한 절대 굴절률 측정 및 정밀 회전각 측정 / 윤효근, 김경현(인하대)

### 수도권-4

XRR을 이용한 박막의 밀도와 표면거칠기 측정 및 광학계 설계 / 이승훈, 황보창권(인하대)

### 수도권-5

일차원 옷놀이의 필승전략 : 잡을까, 업을까? / 심하성, 김승재, 양성규, 김형석, 김범준(성균관대)

### 수도권-6

라만분광학을 이용한 그래핀의 열전도도 측정 / 이재웅, 정현식(서강대)

### 수도권-7

간단한 입자 검출기와 신호처리 장치 제작 및 이를 이용한 우주선 검출 실험 / 오민지, 이은정, 장지현, 조윤애, 채민정, 남지우(이화여대)

### 수도권-8

다선비례(multi-wire proportional chamber) 입자검출기 제작 / 박헌정, 심혜림, 이재준, 조종희, 김시연(중앙대)

### 수도권-9

Labview를 통한 Simple STM 구현 / 여종훈, 곽인섭, 이근섭(인하대)

### 수도권-10

Intrinsic Curvature Analysis of DNA Nano Structure / 김승재, 박성하(성균관대)

### 수도권-11

반-경험적 질량공식의 짝짓기항에 대한 질량수 의존성 / 김병노, 박가영, 강물빛, 차동우(인하대)

### 수도권-13

**Ab initio study of adsorption properties of acetylsalicylic acid on single-walled carbon and boron nitride nanotubes** / 권대건, 권영균, 김건(경희대)

### 강원 · 제주권-1

**LED TV용 백라이트의 광학 특성 평가 및 시뮬레이션 연구** / 정수성, 박민우, 김수진, 김재현, 정용웅, 고재현(한림대)

### 강원 · 제주권-2

**신경계에서 결맞은 집단 동역학** / 김영남, 김상윤(강원대)

### 충청권-1

**Zinc oxide 나노 입자 합성과 TEM을 이용한 미세구조 분석** / 국수근, 김영준, 손동락, 이정용(한국과학기술원)

### 충청권-2

**교류 테슬라 코일** / 김선대, 장동민, 전현규, 유현, 노창재, 김동현(충북대)

### 충청권-3

**Rubens' Tube(루벤스 튜브)** / 신인섭, 이선형, 김승태, 서현덕, 이한범, 유재영, 정진수(충북대)

### 충청권-4

**NI ELVES를 이용하여 분석한 선형소자(저항)와 비선형소자(LED) 복합회로의 전기적 특성조사** / 홍문택, 이진규, 송정훈(공주대)

### 충청권-5

**전자칠판용 광학펜의 형상 설계 및 성능비교** / 송재근, 이근재, 한병현, 조재홍(한남대)

### 호남권-1

**Status of Calibration for CMX Drift Velocity** / 신창동, 주경광(전남대)

### 호남권-2

**Density Measurement of Liquid scintillator for Reactor Neutrino Experiment** / 서승원, 주경광(전남대)

### 호남권-4

**ITO층에 적층된 Zn 박막의 성장과정과 표면관찰** / 김경철, 김인선, 황윤경, 김대은, 차덕준(군산대)

### 호남권-5

**주사식전자현미경에 의한 다양한 형태의 사진 소개** / 김진, 민관식, 양미현, 김경수, 차덕준(군산대)



### 호남권-6

**LabVIEW** 를 활용한 물리교육기기의 개발 - 중력가속도 / 최설아, 조주미, 최윤정, 정윤정, 윤성현(군산대)

### 영남권-1

홀 효과(Hall Effect) 측정 장치의 제작 및 성능 실험 / 김병건, 이민성, 도중회(경북대)

### 영남권-2

**Dual prism sheet** 를 대체할 **MLA sheet** 제작 / 임교성, 전화준, 전가희, 권진혁(영남대)

### 영남권-3

**ZnCoO** 분말에서의 이차상 생성에 따른 수소 매개 강자성 효과 발현 연구  
서승완, 정세영(부산대)

### 영남권-4

물리적 기법을 이용한 이온화도 측정 / 서동필, 김동규, 장우영, 박현웅(경북대)

### 영남권-5

초전도 레일 회전 실험 / 정문규, 정은재, 박병채, 이시원, 이형철(경북대)

### 영남권-7

**Characteristics of Cuprous and Cupric Oxide Thin Films Prepared by Pulsed Laser Deposition**

최학순, 신문수, 엄자윤, 김용수(울산대)

### 영남권-8

**Spark Chamber** 제작[:] **progress report** / 엄종식, 이용진, 유인권(부산대)

### 영남권-9

확산형 안개상자의 제작과 이를 이용한 방사선의 궤적 관찰 / 허창기, 이주영, 장우영, 김귀년(경북대)

### 영남권-10

포토 핀 다이오드를 이용 빛을 전기신호로 변환하는 광 검출기 개발  
강국현, 박희민, 김보배, 전해빈, 박환배(경북대)

### 영남권-11

**Water based 액체섬광검출기** / 이주영, 김홍주(경북대)

### 영남권-12

**Eu<sup>2+</sup>**의 함량에 따른 **Ba<sub>1-x</sub>Si<sub>2</sub>O<sub>5</sub> : Eu<sub>x</sub><sup>2+</sup>** 세라믹 제작 및 특성 연구  
이재현, 오주현, 정중현(부경대)

#### 영남권-14

다결정격자에서의 전자회절실험 및 분석 / 윤찬수, 이상익, 이화경, 박호영, 정경윤(경성대)

#### 영남권-15

Solvothermal 방법을 이용한  $GdVO_4:Eu^{3+}$  산화물 나노분말의 합성과 소결온도에 따른 특성연구 / 김솔, 오근녕, 정중현(부경대)

#### 영남권-16

고해상도 의료용 초음파 트랜듀서 제작 / 윤주호, 오진우, 구자성, 오정환(부경대)

#### 영남권-17

The combinational effect of Zn and H on electrical properties in amorphous  $InGaZnO$  / 정지은, 정세영(부산대)

#### 영남권-18

VCSEL 직접변조를 이용한 Coherent population trapping / 이상민, 문한섭(부산대)

#### 영남권-19

높은 정확도의 격자 분광기 제작 / 신정현, 문한섭(부산대)

#### 영남권-20

플라즈마 직류 글로 방전관 / 최문석, 이형철(경북대)

#### 영남권-21

Performance test of fine strip scintillator / 박민석, 이정은, 최재윤, 김동희, 우오즈미 사토루(경북대)

#### 영남권-22

Laser calibration system for the RENO experiment / 장종혁, 신은지, 김태호, 김우영(경북대)

#### 영남권-23

Haidinger 무늬가 보이는 평판의 양면은 완벽하게 평행할까? / 차민령, 최희주, 김병주, 신민재, 차명식(부산대)

#### 영남권-24

포항공과대학교-일반물리강의개선 사업 / 정윤희, 유창모, 조무현, 김동언, 조경현, 이상귀, 이종덕, 이용훈, 최지훈, 최정옥, 고진주, 김선화, 권용태, 정윤희(포스텍)

## 영남권-25

**Jumping Ring, High Road & Low Road** / 오태구, 정장균, 이진원, 도의환, 조자원, 한민규, 이종인, 류세희, 양우인, 권창일, 정유빈, 조도형, 최성진, 최순욱, 정윤희(포스텍)



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**발표자 색인**



# 가

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 강대준 DG-58, DG-59,  
 DG-60, Dp-I-005,  
 Dp-I-016, Dp-I-020,  
 Dp-I-033, Dp-I-037,  
 Dp-I-040  
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 강흥식 Hp-IV-047  
 강흥식 Hp-IV-045  
 강희영 lp-II-006  
 견두연 Bp-V-015  
 경원식 Dp-I-053, Dp-I-084  
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 경재선 Ep-V-119  
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 고요섭 Ep-V-114  
 고윤영 Dp-I-053, Dp-I-084  
 고윤영 Dp-I-089  
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 곽종구 Hp-III-006  
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 김갑석 Hp-IV-036  
 김갑진 Dp-III-134  
 김강배 Dp-V-193  
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 김경국 Kp-III-102  
 김경남 Hp-IV-021  
 김경대 Gp-II-003  
 김경대 Gp-II-007  
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 김경태 Bp-V-030  
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 김경현 Ip-II-047  
 김경호 Kp-III-098  
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 김곤우 Bp-V-036  
 김곤준 HF-05(초)  
 김곤호 Hp-IV-041  
 김곤호 Hp-IV-040  
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 김관수 JG-09  
 김권호 Kp-III-097, Kp-III-102  
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 김규태 Ep-I-012, Ep-V-126  
 김규환 Ip-II-001  
 김규환 GG-07  
 김근주 Ip-II-008  
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 김기섭 Kp-III-053  
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 김대식 Ip-II-001  
 김대일 Hp-IV-060  
 김대중 Kp-III-099  
 김대현 Dp-III-139  
 김대현 Dp-III-098  
 김대호 Fp-IV-017  
 김대환 Kp-II-024  
 김대환 Kp-III-057  
 김덕호 Dp-III-095  
 김도윤 Dp-I-007, Ep-V-096  
 김도윤 Cp-IV-011  
 김도현 Cp-IV-021  
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 김동락 Ep-V-122  
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김동현 Hp-IV-037  
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 김동호 Dp-III-094  
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 김득수 Ip-II-039  
 김득영 KG-14, Kp-II-002  
 김득영 Kp-II-011  
 김만원 Dp-III-150  
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 김미정 Ep-I-014  
 김민성 Gp-II-002  
 김민성 Cp-IV-023, Cp-IV-024  
 김민수 Ep-I-059  
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 김민우 Hp-III-011  
 김민재 Dp-III-107  
 김민재 Fp-IV-006  
 김민정 Cp-IV-002  
 김민지 Kp-III-074  
 김민철 Kp-III-095  
 김범규 Dp-I-003  
 김범영 Dp-I-053, Dp-I-084  
 김범영 Dp-I-089  
 김범영 Dp-I-055, Dp-I-079  
 김범영 Dp-I-080  
 김범일 Gp-II-011  
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 김삼진 Dp-III-119  
 김삼진 Dp-III-097  
 김상곤 KG-18  
 김상균 Dp-I-011  
 김상수 Dp-I-051, Dp-I-054,  
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 김상우 Kp-II-021  
 김상욱 Kp-II-033  
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 김상중 Hp-IV-025  
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 김석원 Ep-I-024, Ep-I-036  
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 김선경 IG-01(초)  
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 김성 Kp-II-003  
 김성규 Hp-III-006  
 김성민 Kp-III-060  
 김성민 Dp-III-155  
 김성백 Dp-III-139  
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 KF-01(초)  
 김성수 Kp-III-086  
 김성원 GG-01  
 김성인 Kp-II-026  
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 김성현 Bp-V-028  
 김성호 Kp-II-009  
 김성환 Dp-I-002  
 김성환 Cp-IV-002  
 김세진 Ip-II-009, Ip-II-029,  
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 김성현 BG-23  
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 김소은 Dp-I-004  
 김송강 Kp-III-053  
 김수남 IG-11  
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 김수용 Fp-IV-006, Fp-IV-009  
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 김수현 Ep-V-089  
 김승진 GG-06  
 김승천 BG-05  
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 김승환 A-04  
 김승환 Ip-II-047  
 김승환 Kp-III-062  
 김승환 Fp-IV-012  
 김승환 Kp-III-063  
 김시연 Bp-V-034  
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 김아람 Dp-I-063  
 김억봉 IG-03  
 김연중 Dp-V-193  
 김엽 Fp-IV-001, Fp-IV-005  
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 김영미 Hp-III-009  
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 김영삼 Kp-II-020  
 김영선 Cp-IV-011  
 김영수 Ip-II-037, Ip-II-053  
 김영임 HG-04  
 김영진 BG-41  
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 김영훈 Dp-I-058  
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 김용 Kp-III-098  
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 김용관 Dp-I-089  
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 김용관 Dp-I-080  
 김용균 CG-17  
 김용모 Hp-IV-036  
 김용수 Ip-II-034  
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 김유석 Dp-I-002  
 김유진 EG-18  
 김윤중 Dp-I-035  
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 김은선 Dp-I-051, Dp-I-054,  
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 김인규 Dp-III-096  
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 김일곤 Bp-V-036  
 김일수 Dp-I-004  
 김일원 Dp-V-190  
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 김재삼 Dp-III-172  
 김재성 DG-71, DG-76  
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| CHOI H.I        | Dp-I-047    | CHOI Jin Sik     | Dp-I-029   |

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 CHOI Jinsik Dp-I-024  
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 CHOI Jinsik EG-29  
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 CHOI K.-Y. Dp-III-145  
 CHOI Kiwoon PA-12  
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 CHOI KwangYong Dp-III-129  
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 CHOI KYUNG HO Kp-II-018  
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 CHOI Soo-bin Dp-I-041  
 CHOI Sun Kyung Ep-I-056  
 CHOI Sung-Min PD-04(초)  
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 CHOI Sungwoo KG-16(초)  
 CHOI Suyong BG-10  
 CHOI Won Mook Kp-III-089  
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 CHOI Y. Dp-III-091,  
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 CHOI Yong Chan DG-16  
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 COKK C.J. KG-15  
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 D. F. Wang Ep-V-093  
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 DALAL Naresh Dp-III-129  
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 DEGUCHI Kazuhiko  
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 DETTLAFF-WEGLIKOWSKA  
 Ursula Ep-I-028  
 DETTLAFF-WEGLIKOWSKA  
 Urszula Ep-V-098  
 DEWEESE Joseph E.  
 DG-03  
 DHO ho seog CG-05  
 DHO Joonghoe Dp-I-069  
 DIENER Peter LG-02  
 DIWARE M. S. Kp-III-058  
 DO D Dp-I-056,  
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 DO D Dp-I-047,  
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 DO D. Dp-I-048  
 DO SeungHwan Dp-III-129  
 DO DUY Tho Hp-IV-068  
 DOE Changwoo DG-01  
 DOH Yong-Joo DG-47  
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 DOH Yong-Joo PC-10(초)  
 DOMIER C. W. Hp-III-001  
 DONG Yanqun Kp-III-061  
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 DONG-WON Park EF-02(초)  
 DONG-YU Kim EG-23  
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E Yanoivch BG-23  
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 E. Feibuch Hp-III-003  
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 E. Yanovich BG-21,  
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 EISAKI Hirosh Dp-I-068  
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 EOM C. B. DG-52  
 EOM M. J. PC-14(초)  
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 FARAONE Antonio  
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 FARZANA Siddique  
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 FISK, Z. Dp-I-070  
 FLANAGAN K. CG-21(초)  
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 FORTIN J. -Y. FG-18  
 FREELAND J. W. Dp-III-113  
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 FUJITA Kunihiro CS-12(초)  
 FULDE Peter A-02  
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 FURDYNA J.K. KG-05  
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 G. Seeta RamaRaju Ep-I-048,  
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 G. Yun Hp-III-002  
 G.S. YUN Hp-III-010  
 GANG Byung-Hui CS-04  
 GAO Li Gang EG-25  
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 GAO Q. Kp-III-100  
 GAO Qing Kp-II-006  
 GHIM Jin Soo DG-27  
 GIL KyeHwan Bp-V-037  
 GIM Gi-Hong Dp-III-138  
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 GOAK Jeung Choon EG-24  
 GOAK Jeungchoon Ep-I-035  
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 GOFRYK K. Dp-I-086  
 GOH Jung Suk DG-29  
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 GOSWAMI Syamanta Kp-III-087  
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 GRASS Michael Ep-V-079  
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 H. Y. Hwang Dp-III-158  
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 H.G. Lee Hp-III-002  
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 HA Bae-Yeun FG-04  
 HA Eunja CG-09  
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 HA Jang-Ho CS-04  
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 HA Taekjip DG-02  
 HA Taewoo Dp-I-062  
 HAHN I.S Cp-IV-022  
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 HAKSUNG KIM Ep-V-107  
 HAN Dongwoo Kp-II-014  
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 HAN G.R. DG-23  
 HAN J.H. Dp-I-086  
 HAN Jae-Min CS-09  
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 HAN Jung Hoon DG-39  
 HAN Jung Hoon PC-08(초)  
 HAN Junhee Jp-III-022,  
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 HAN Moonsep Kp-II-014  
 HAN Moonsep Kp-II-010  
 HAN S.-W. Ep-I-022  
 HAN Sang Wook KG-08  
 HAN Sung-Guk FG-11  
 HAN Tao BG-06  
 HAN Yoonsung EF-10(초)  
 HAN Young-Geun Ip-II-015,  
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 HANAGURI Tetsuo PC-02(초)  
 HANG Dongwoo Kp-II-010  
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 HEEGER Alan J. DG-56(초)  
 HEO Aeyoung Hp-IV-062  
 HEO Kwang DG-61  
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 HEO Seung-Jin Ep-V-105  
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 HIDETOSHI Kubo PD-03(초)  
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 HONG Jin Pyo Kp-III-105,  
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 HONG Jongil EF-10(초)  
 HONG ju ho Hp-IV-052  
 HONG JUHO Hp-IV-048  
 HONG Kun-Pyo Dp-III-122  
 HONG Kwangjoon  
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 HONG Sahwan Dp-I-029  
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 HONG Seung Hwan  
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 HONG seunghun EF-04(초)  
 HONG Seunghun DG-61  
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HUANG Jung Yun  
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HUR Min Sup Hp-IV-068

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HUR Nam Jung Dp-III-117

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HWANG Doo Hee  
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HWANG I. R Dp-I-021

HWANG Il Moon Hp-IV-070

HWANG In Rok Dp-I-029

HWANG Inrok EG-29

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HWANG Jin-Heui DG-65

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HWANG Sungmin  
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HWANG Yoon-Hwae  
Fp-IV-007

HWANG Younghun  
Dp-I-081,  
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HWANG younghun  
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HWANGBO Chang Kwon  
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HWNAG Nong-Moon  
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HYEONSIK Cheong  
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HYUN Young-Hwan  
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HYUNJU Chang EF-02(초)

IIZUKA Takuya DG-26

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| ISHIDA Shigeyuki    | DG-35   |
| ISHIDA Taku         | PB-09   |
| ISHIKI Goro         | BG-15(초)  |
| ISHIZUKA S          | KG-16(초)  |
| ISMAIL Agustina     | Dp-III-126  |
| ISNAENI, Isnaeni    | Kp-III-081  |
| ISOSHIMA Takashi    | Fp-IV-022,<br>Fp-IV-024                                       |
| IWASAKI Yoshihito   | Bp-V-031  |
| J. Kim              | Hp-III-002  |
| J. Kono             | Dp-I-039  |
| J. Lee              | Hp-III-002  |
| J. M. Kim           | Ep-V-086,<br>Ep-V-090   |
| J. M. Kim           | Ep-V-093  |
| J. W. Park          | Ep-V-073  |
| J. W. Park          | Ep-VI-068   |
| J. Y. Rhee          | Ep-V-066,<br>Ep-V-086,<br>Ep-V-091,<br>Ep-V-094,<br>Ep-VI-068 |
| J.B. Kim            | Hp-III-003  |
| J.B. KIM            | Hp-III-010  |
| J.D. Thompson       | Dp-III-125  |
| J.G. Kwak           | Hp-III-012  |
| JAESUNG HWANG       | DG-66   |
| JAGADISH C          | Kp-III-098  |
| JAGADISH C.         | Kp-III-100  |
| JAGADISH Chennupati | Kp-II-006   |
| JAHING Junghoon     | EG-38   |
| JAHING Junghoon     | EG-06   |
| JANG ARang          | Dp-I-037,<br>Dp-I-037   |

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| JANG D.J.       | Dp-I-086                |
| JANG Do G.      | Hp-IV-063               |
| JANG Do-Geun    | Hp-IV-072               |
| JANG Dong G.    | Hp-IV-063               |
| JANG Dong Hyun  | DG-08                   |
| JANG Dong Kyu   | Ep-I-037                |
| JANG Dong-Hyun  | DG-62                   |
| JANG Dong-Hyun  | KG-02                   |
| JANG Dongjin    | Dp-III-125              |
| JANG Dongjin    | PC-05(초)                |
| JANG Hun        | Bp-V-017                |
| JANG Hyung Keun | Kp-II-044               |
| JANG Ji-Ho      | Hp-IV-054               |
| JANG Ji-ho      | Hp-IV-069               |
| JANG Kiwan      | Ep-I-038,<br>Ep-I-044   |
| JANG kiwan      | Ip-II-026               |
| JANG S.-Y.      | DG-11                   |
| JANG Seunghun   | Kp-II-014               |
| JANG Seunghun   | Kp-II-010               |
| JANG Si-Won     | Hp-IV-058               |
| JANG Sung Duck  | Bp-V-037                |
| JANG T.-H.      | DG-37(초)                |
| JANG Tae-Hwan   | Dp-III-122              |
| JANG Z. H.      | Dp-I-028,<br>Dp-III-145 |
| JANG, D. Y.     | CS-05                   |
| JAVANAINEN Juha | JG-06                   |
| JE Soong-Geun   | Dp-III-138              |
| JEAN J.H        | Dp-I-021                |
| JEON Byung Chul | DG-50                   |
| JEON Byung-Gu   | Dp-I-046                |
| JEON Chanil     | FG-04                   |
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| JEON Dae-Young  | Ep-V-098                |
| JEON Eun-Kyoung | Dp-I-038                |

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 JEON Sang-Jean HG-07  
 JEON Seok-Gy Ip-II-049  
 JEON Seong-Ran EG-16  
 JEONG A. R. EG-40  
 JEONG A. R. DG-74  
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 JEONG Byoung-ki Kp-II-044  
 JEONG Dongchan DG-41  
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 JEONG Euh Duck  
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 JEONG Hae Kyung  
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 JEONG Hawoong FG-12  
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 JEONG li-Kyo Kp-II-031  
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 JEONG Jung Hyun  
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 JEONG Jung Hyun  
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 JEONG JungHyun  
 Kp-III-082  
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JEONG Kwangho EG-34  
 JEONG Minki DG-48  
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 JEONG Soomin LF-01  
 JEONG Sukmin Dp-III-156  
 JEONG Y. H. DG-37(초)  
 JEONG Yong-Min Dp-I-015,  
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 JEONG Yoon Hee Dp-I-074  
 JEONG Yoon-Hee Dp-III-122  
 JEONG Young Uk  
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 JEONG-AH Seo FG-08  
 JEONGKUG Lee Ep-VI-070  
 JHE Wonho JG-20  
 JHE Wonho EG-06  
 JHI Seung-Hoon DG-19  
 JI Hyo-Seok DG-27  
 JI S. DG-37(초)  
 JIANG J.S. Dp-III-091  
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 JIHWAN Hwang Dp-V-176,  
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 JIN Li-Hua Kp-III-094  
 JIN xio zhan Ep-I-028  
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 JIN HO Kim EG-23  
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 JO Euna Dp-III-106  
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| JO Sanghyun       | PC-10(초)   |                 | Dp-III-171 |
| JO Sanghyun       | DG-17      | JUNG Unseok     | Ep-I-019   |
| JO W              | EG-40      | JUNG W.S.       | DG-23      |
| JO W.             | DG-54      | JUNG Woosung    | DG-14      |
| JO W.             | DG-74      | JUNG Woosung    | DG-13      |
| JO W.             | Dp-V-185   | JUNG Young Sik  | Ep-I-056   |
| JO William        | PC-03(초)   | JUNG Youngkyun  |            |
| JO Y.             | DG-39      |                 | FG-04      |
| JOHNER albert     | FG-06      | JUNG Younsu     | Ep-V-099   |
| JOO Chirlmin      | DG-02      | JUNG, Soon-Gil  | PC-13(초)   |
| JOO Jinsoo        | EF-03(초)   | JUNGMIN Bae     | EG-35      |
| JOO Min Kyu       | Ep-V-098   | K. W. Kim       | Ep-V-086,  |
| JU Sol            | Dp-I-086   |                 | Ep-V-091   |
| JUHEYUCK Baeck    |            | KABEYA Noriyuki | PC-09(초)   |
|                   | Kp-II-019  | KADONO Ryosuke  | PB-05      |
| JUN Na-Ram        | Ip-II-016  | KAHNG B.        | FG-14      |
| JUNG Chang Uk     | Dp-V-180   | KAHNG Byungnam  |            |
| JUNG In-II        | PD-08(초)   |                 | FG-17      |
| JUNG J.H.         | Ep-I-054   | KAHNG Byungnam  |            |
| JUNG Jong Hoon    | Dp-III-117 |                 | EG-27      |
| JUNG Kyunghwan    |            | KAMON Teruki    | Bp-V-012   |
|                   | EG-21,     | KAMON Teruki    | Bp-V-013   |
|                   | Ep-V-099   | KAMON Teruki    | BG-03      |
| JUNG M. H.        | EF-09(초)   | KANG Bo Soo     | EG-27      |
| JUNG Minhun       | EG-21      | KANG Bo Soo     | EG-29      |
| JUNG Minhun       | Ep-V-099   | KANG Byeongwon  |            |
| JUNG Myung Hwa    |            |                 | PC-04(초)   |
|                   | PC-04(초)   | KANG Daeyun     | Ep-V-108   |
| JUNG Myung Hwa    |            | KANG Gungwon    | LG-02,     |
|                   | DG-27      |                 | LG-04      |
| JUNG Myung-Hwa    |            | KANG Heung Sik  | HF-06,     |
|                   | Ep-V-087   |                 | HF-07      |
| JUNG Myung-Hwa    |            | KANG Hoju       | DG-04      |
|                   | PC-11(초)   | KANG Hoon Soo   | CS-10      |
| JUNG Na Ri        | Fp-IV-018  | KANG Hoonsoo    | HF-01      |
| JUNG Seung Il     | Dp-I-001   | KANG Hyon Chol  | Ep-I-029   |
| JUNG Seung-Ryoung |            | KANG Hyon Chol  | Ip-II-051  |
|                   | DG-03      | KANG Myung Ho   | DG-63,     |
| JUNG sokhyun      | Ip-II-012  |                 | DG-69,     |
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 KANG Seen-Woong  
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 KANG Se-Jun Kp-II-022  
 KANG Seogon CG-28  
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 KANG Young-Gu Ep-I-053  
 KANG Yuri LG-05  
 KANG Yu-Seon Ep-V-076  
 KANG, Won Nam PC-13(초)  
 KANG. B. H. CS-05

KAO Chung-Wen  
 CG-26  
 KAPLAN Alexander  
 Bp-V-007  
 KARLSSON Patrik  
 Ep-V-079  
 KAWAGOWE kiyotomo  
 Bp-V-007  
 KAWAI Tomoji Dp-I-017  
 KEI KOTAKE Kei LS-06  
 KEUM Yong-Yeon  
 LF-01  
 KHAN Adil Bp-V-013  
 KHAN Adil Bp-V-007  
 KHANDAKER M.U.  
 CG-14  
 KHIM S. H. DG-39  
 KHYM S. DG-09  
 KI Dong-Keun DG-17  
 KIM A ram CS-06  
 KIM Andrey CG-05  
 KIM B. J. DG-72  
 KIM B.-H. Ep-I-022  
 KIM bawl Ep-I-018  
 KIM Beom Hyun DG-05  
 KIM Beom Jun FG-05  
 KIM Beom Soo Ep-V-095  
 KIM BeomJun FG-11  
 KIM Bongjae Dp-III-105  
 KIM Bongsoo Kp-II-050  
 KIM Bongsu EG-06  
 KIM Byeonghoon Ep-I-030  
 KIM Byeonghoon Ep-I-034  
 KIM Byeonghoon Ep-I-026  
 KIM Byoungchul CG-20  
 KIM C. DG-23  
 KIM C. DG-72  
 KIM Chan Ip-II-051  
 KIM Chan Hyeong  
 PD-08(초)



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| KIM chang bum  | Hp-IV-052  |
| KIM Chang Jung | EG-27      |
| KIM CHANGBUM   | Hp-IV-048  |
| KIM Changsoo   | Dp-III-106 |
| KIM Cheol-Joo  | Dp-I-010   |
| KIM Chul       | DG-23      |
| KIM Chul       | DG-72      |
| KIM Chul Koo   | EG-11      |
| KIM Chul Koo   | EG-12,     |
|                | EG-13,     |
|                | Ep-I-003,  |
|                | Ep-I-004   |
| KIM Chung-Yi   | Ep-V-076   |
| KIM D.         | FG-14      |
| KIM D. H.      | Dp-I-057   |
| KIM D. J.      | Dp-I-060   |
| KIM D. J.      | Dp-I-049   |
| KIM D. J.      | Dp-I-048   |
| KIM D.J        | Dp-I-047   |
| KIM D.J        | Dp-I-056   |
| KIM D.J        | Dp-I-076   |
| KIM Dae        | Ep-V-099   |
| KIM Do Gyun    | CG-19      |
| KIM Do Gyun    | CG-15      |
| KIM do tae     | Hp-IV-052  |
| KIM Do wan     | Dp-III-103 |
| KIM Dogyun     | PD-03(초)   |
| KIM DONG EON   | HF-07      |
| KIM DONG EON   | Ep-I-064   |
| KIM Dong Hak   | Kp-III-092 |
| KIM DONGEON    | Ip-II-056  |
| KIM DongHee    | Bp-V-007   |
| KIM DongHee    | PA-02      |
| KIM Dong-Ok    | Dp-III-113 |
| KIM Dong-Rak   | CS-04      |
| KIM Dong-Seok  | EG-33      |
| KIM Dong-Uk    | EG-16      |
| KIM Dong-Wook  | EG-28      |
| KIM Dongyoo    | DG-07      |
| KIM Dooyoung   | Cp-IV-018  |

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| KIM E.         | DG-54      |
| KIM Eok Su     | KG-11      |
| KIM Eui Tai    | Kp-III-087 |
| KIM Euikwoun   | Dp-I-041   |
| KIM Eun Kyu    | Kp-II-039  |
| KIM Eun Kyu    | Kp-II-016  |
| KIM Eunhee     | CG-03      |
| KIM Eun-San    | Hp-IV-062  |
| KIM G C        | Dp-I-085,  |
|                | Dp-I-088   |
| KIM G.N        | Cp-IV-010, |
|                | Cp-IV-013  |
| KIM G.N.       | BG-04      |
| KIM Geun-Ju    | Ip-II-049  |
| KIM GI HEON    | Kp-II-018, |
|                | Kp-II-042  |
| KIM Gon-Ho     | HG-07      |
| KIM Gracia     | PC-03(초)   |
| KIM Guinyun    | Bp-V-035   |
| KIM Guinyun    | CG-13,     |
|                | CG-14      |
| KIM Guinyun    | Cp-IV-009  |
| KIM Gunn       | DG-42,     |
|                | Ep-I-017,  |
|                | Ep-I-031   |
| KIM Gwang-Hee  | Dp-III-136 |
| KIM Gyu Tae    | Ep-I-028   |
| KIM Gyu Tae    | EF-06(초)   |
| KIM Gyu-Hyeong | Dp-III-156 |
| KIM Gyutae     | Ep-V-098   |
| KIM H. S.      | Dp-I-044   |
| KIM H. S.      | Dp-III-130 |
| KIM H.J.       | BG-36      |
| KIM Hakseong   | Ep-I-019   |
| KIM Hanchul    | DG-45      |
| KIM Hang Bae   | LG-09      |
| KIM Han-Sung   | Hp-IV-054  |
| KIM Han-Sung   | Hp-IV-051  |
| KIM Hee Yeon   | Kp-III-070 |

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| KIM Hee-Il     | LG-02                   |
| KIM Heonho     | Kp-II-031               |
| KIM Ho-Dong    | Cp-IV-001               |
| KIM Ho-Jong    | Kp-III-061              |
| KIM hongki     | Lp-IV-003               |
| KIM Hongki     | Lp-IV-007               |
| KIM Hyeong-Do  | Kp-II-050               |
| KIM Hyery      | DG-57                   |
| KIM Hyo Jin    | Cp-IV-010               |
| KIM Hyo Yun    | Bp-V-037                |
| KIM hyojung    | Dp-III-152              |
| KIM Hyoung-Suk | Hp-IV-062               |
| KIM Hyun       | JG-14                   |
| KIM Hyun Chul  | CG-27                   |
| KIM Hyun Jin   | KG-12                   |
| KIM Hyun Suk   | Dp-I-022                |
| KIM Hyung Kook | Fp-IV-007               |
| KIM Hyung-Jin  | BG-39                   |
| KIM hyungmin   | Kp-II-043               |
| KIM hyungmin   | Kp-II-049               |
| KIM Hyung-Sub  | Ep-V-076                |
| KIM Hyun-Joo   | Ip-II-015,<br>Ip-II-016 |
| KIM Hyun-Joo   | Fp-IV-018               |
| KIM Hyunjung   | Ep-I-040                |
| KIM Hyunjung   | Dp-III-154              |
| KIM Hyun-Jung  | Jp-III-021              |
| KIM Hyunseung  | Kp-II-014               |
| KIM HyunSeung  | Kp-II-010               |
| KIM Hyunyong   | CG-28                   |
| KIM Ian-Woo    | BG-06                   |
| KIM Il-Ho      | Dp-V-180                |
| KIM Ilyou      | Kp-II-050               |
| KIM In Gyu     | CS-08                   |
| KIM J. B.      | Hp-III-001              |
| KIM J. S.      | DG-54                   |
| KIM J. W.      | Dp-I-060                |
| KIM J. Y.      | Dp-III-124              |
| KIM J.S        | Dp-I-021                |
| KIM J.-Y.      | Dp-III-115              |

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| KIM Jae Hoon   | Dp-III-112              |
| KIM Jae Hoon   | Dp-I-062                |
| KIM Jae Myung  | Ep-I-029                |
| KIM Jae Wook   | DG-39                   |
| KIM Jae Yool   | Bp-V-003                |
| KIM Jaehong    | Ip-II-049               |
| KIM Jae-Sung   | Ep-V-098                |
| KIM Jaewan     | JG-12                   |
| KIM Jaewan     | Jp-III-004              |
| KIM Jaeyeong   | Dp-III-126,<br>Dp-V-180 |
| KIM jaeyong    | Dp-I-041                |
| KIM Jaeyool    | Bp-V-009                |
| KIM Je-Hyung   | Kp-III-055              |
| KIM Jeong Hyuk | DG-12                   |
| KIM Jeong-Sook | Lp-IV-002,<br>Lp-IV-005 |
| KIM Ji Hyoun   | JG-20                   |
| KIM Ji Hyun    | BG-01(초),<br>Bp-V-001   |
| KIM Ji Hyun    | CG-27                   |
| KIM Jieun      | Bp-V-007                |
| KIM Ji-Hoon    | KG-04                   |
| KIM Ji-hyun    | LG-09                   |
| KIM Jin Soo    | Kp-III-070              |
| KIM Jin Soo    | Dp-III-103              |
| KIM Jinhee     | Dp-III-125              |
| KIM Jinhee     | KG-02                   |
| KIM Jin-Soo    | Dp-I-024                |
| KIM Jin-Soo    | Dp-I-029                |
| KIM Jin-soo    | Dp-I-025                |
| KIM Jin-soo    | EG-29                   |
| KIM jiyong     | Ep-V-071                |
| KIM Jong Dae   | Dp-III-091              |
| KIM Jong Min   | KG-11,<br>KG-12         |
| KIM Jong Won   | CG-15                   |
| KIM Jong-Pil   | Dp-III-157,<br>Dp-V-186 |
| KIM Jong-Pil   | Dp-I-015,               |

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|               | Dp-I-018   | KIM Kwang Soo   | CG-13      |
| KIM Jongwon   | PD-03(초)   | KIM Kwangsoo    | Bp-V-035   |
| KIM Jong-Won  | CG-19      | KIM Kwangsoo    | CG-14      |
| KIM Joo-Hyung | EG-33      | KIM Kye-Ryung   | PB-06      |
| KIM Joon Yeon | CG-19      | KIM Kyoo        | Dp-I-052   |
| KIM Joon Yeon | CG-15      | KIM Kyung Kiu   | BG-30      |
| KIM Joonkon   | CS-09      | KIM Kyung Sook  | Bp-V-035   |
| KIM Juin      | FG-04      | KIM Kyung Yeon  | DG-31      |
| KIM Ju-Jin    | Dp-I-038   | KIM Kyung-il    | CG-07      |
| KIM Ju-Jin    | Dp-I-023   | KIM Kyungjin    | Hp-III-013 |
| KIM Jun Sung  | Ep-I-049   | KIM Kyung-Joong |            |
| KIM Jun sung  | Ep-V-108   |                 | DG-15      |
| KIM Jun Sung  | PC-14(초)   | KIM Kyungkon    | KF-04(초)   |
| KIM Jung Hwan | Ep-I-057   | KIM Kyungsik    | Cp-IV-007  |
| KIM Junghwa   | Fp-IV-013  | KIM Kyungsik    | CG-09      |
| KIM JungHyun  | BG-40      | KIM kyungsik    | Cp-IV-008  |
| KIM Jung-II   | Ip-II-049  | KIM Kyung-Sook  | CG-13      |
| KIM Jung-Joo  | EG-33      | KIM kyung-sook  | CG-14      |
| KIM Jung-Ryul | JG-16      | KIM M.          | EG-40      |
| KIM Jungsang  | JG-03      | KIM M. W.       | Hp-III-001 |
| KIM Jungwon   | HF-08      | KIM M.-H        | Dp-I-047   |
| KIM Junki     | Jp-III-013 | KIM M.-H        | Dp-I-056   |
| KIM Junwon    | Dp-I-052   | KIM M.-H        | Dp-I-076   |
| KIM Jun-Yeon  | PB-06      | KIM M.-H.       | Dp-I-048   |
| KIM K. H.     | Dp-III-145 | KIM M-H.        | Dp-I-049   |
| KIM K.H.      | DG-23      | KIM Minkook     | DG-14      |
| KIM Kab-Jin   | Dp-III-138 | KIM min-kook    | DG-44      |
| KIM Kee Hoon  | DG-39      | KIM Minkyoo     | BG-18      |
| KIM Kee Hoon  | DG-38      | KIM Min-Seok    | HF-01      |
| KIM Kee Hoon  | Dp-I-046   | KIM Min-Seok    | Hp-IV-063  |
| KIM Keun Mook | Ep-I-008,  | KIM Min-Seok    | Hp-IV-072  |
|               | Ep-I-015   | KIM Minseong    | Dp-III-160 |
| KIM Keun Su   | DG-72      | KIM Minwoo      | Cp-IV-017  |
| KIM Ki-Bum    | Cp-IV-015  | KIM MunGyung    | Hp-IV-070  |
| KIM Ki-Bum    | Hp-IV-057  | KIM S. J.       | Ep-I-054   |
| KIM Kidong    | CS-11      | KIM S. S        | Dp-I-048   |
| KIM Ki-jeong  | Kp-II-050  | KIM S. S.       | Dp-I-060   |
| KIM Ki-jeong  | Dp-I-009   | KIM S. S.       | Dp-I-049   |
| KIM Kipom     | Ep-V-105   | KIM S.H.        | DG-23      |
| KIM Kui-Young | PB-06      | KIM S.-H.       | Ep-I-022   |

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| KIM S.K.       | BG-36      |
| KIM S.S        | Dp-I-056,  |
|                | Dp-I-076   |
| KIM S.S        | Dp-I-047   |
| KIM Saes Byul  | Kp-III-090 |
| KIM Saes Byul  | Kp-III-082 |
| KIM Sang Wook  | FG-01      |
| KIM SangHo     | CG-08      |
| KIM Sangrak    | FG-16      |
| KIM Sang-Woo   | Ep-V-100   |
| KIM Sang-Woo   | Kp-III-089 |
| KIM Sang-Woo   | KG-12      |
| KIM Sang-Woo   | KG-11      |
| KIM Se hun     | Jp-III-022 |
| KIM Seon Hyo   | KG-08      |
| KIM Seong Min  | KG-12      |
| KIM Seong-Je   | Kp-II-008  |
| KIM Seunghwan  | Fp-IV-023  |
| KIM Seunghwan  | Fp-IV-008, |
|                | Fp-IV-015  |
| KIM SEUNG-HWAN |            |
|                | Hp-IV-048  |
| KIM Seungjae   | EG-03      |
| KIM Seyong     | PA-06      |
| KIM Shinhee    | DG-09      |
| KIM Sok Won    | Ip-II-005  |
| KIM sok won    | Ip-II-012  |
| KIM Sok Won    | Ip-II-035  |
| KIM Song-Ju    | Fp-IV-010, |
|                | Fp-IV-022  |
| KIM Song-Mook  | Kp-III-061 |
| KIM Soo Min    | Dp-I-009   |
| KIM Soo Yong   | Ip-II-005  |
| KIM Soo-Bong   | PB-10      |
| KIM Soon-Wook  | Lp-IV-002, |
|                | Lp-IV-005  |
| KIM Su Mi      | PD-08(초)   |
| KIM Sun Kee    | BS-04(초)   |
| KIM Sun Myong  | Bp-V-017   |
| KIM Sung Baek  | Dp-III-124 |

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| KIM Sung Hyun  | BG-01(초),  |
|                | Bp-V-001   |
| KIM Sunghwan   | EG-16      |
| KIM Sung-Je    | Kp-II-015  |
| KIM Sungjin    | Ep-V-100   |
| KIM Sung-Won   | LG-05      |
| KIM Sunho      | Ep-I-034   |
| KIM T. H.      | DG-52      |
| KIM Tae Heon   | DG-50      |
| KIM Tae Sang   | KG-11      |
| KIM Taehyun    | JG-03      |
| KIM Taek       | Kp-III-078 |
| KIM Taekyu     | Ep-I-009,  |
|                | Gp-II-010  |
| KIM Taekyung   | BG-31      |
| KIM TaeSoo     | Kp-III-087 |
| KIM Tae-Soo    | Kp-III-061 |
| KIM Taesung    | Ep-I-026,  |
|                | Ep-I-034   |
| KIM Taewon     | Ep-V-087   |
| KIM Tai Hoon   | KG-02      |
| KIM TaiHoon    | DG-08      |
| KIM Useong     | Kp-III-083 |
| KIM W. J.      | Dp-I-060   |
| KIM W. M.      | DG-54      |
| KIM W.-J       | Dp-I-047   |
| KIM Wookrae    | JG-16      |
| KIM wooyoung   | CG-05      |
| KIM Y C        | Dp-I-085   |
| KIM Y C        | Dp-I-088   |
| KIM Y. K.      | DG-72      |
| KIM Y.D.       | BG-36,     |
|                | CG-18      |
| KIM Y.H.       | CG-18      |
| KIM Y.H.       | BG-36      |
| KIM Y.K.       | DG-23      |
| KIM Y.S        | Dp-I-021   |
| KIM Yeon Soo   | Dp-I-029   |
| KIM Yeon soo   | Dp-I-025   |
| KIM yong pyung | Ip-II-002  |

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| KIM Yong Soo       | Kp-II-031               |
| KIM Yongha         | Ep-V-098                |
| KIM Yonghee        | JG-20                   |
| KIM Yong-Kyun      | CS-02                   |
| KIM Yong-Su        | IG-12                   |
| KIM Yonha          | Ep-I-028                |
| KIM Yoonbai        | BG-31,<br>BG-34         |
| KIM Yoonhee        | Ip-II-051               |
| KIM Yoon-Ho        | IG-12                   |
| KIM Young Duck     | Ep-I-055                |
| KIM Young Duck     | DG-61                   |
| KIM Young Duck     | Dp-I-019                |
| KIM Young Wook     | Ep-I-049                |
| KIM Young-Kee      | A-01                    |
| KIM YOUNGMAN       | BG-29                   |
| KIM Youngman       | BG-30                   |
| KIM Youngwook      | Ep-V-108                |
| KIM yunwon         | Ep-V-071                |
| KIM Yup            | Fp-IV-013,<br>Fp-IV-014 |
| KIM Zero           | Bp-V-009                |
| KIM Zero           | Bp-V-003                |
| KIM, Dong Ho       | PC-13(초)                |
| KIM, Y. K.         | CS-05                   |
| KIMURA Shin-ichi   | DG-26                   |
| KIRAVITTAYA Suwit  | Kp-III-067              |
| KISS Takanobu      | PC-03(초)                |
| KLINE Steven R.    | DG-01                   |
| KNOERNSCHILD Caleb | JG-03                   |
| KO Changhun        | Kp-II-014               |
| KO Che Ming        | CG-24(초)                |
| KO Dae-Hong        | Ep-V-076                |
| KO In Soo          | HF-02                   |
| KO IN SOO          | Hp-IV-048               |
| KO in soo          | Hp-IV-052               |
| KO Jaesung         | EG-17                   |

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| KO Seok-Min           | Kp-III-055                   |
| KO Seung - Kook       | CS-03                        |
| KO Suk-Min            | Kp-III-065                   |
| KO Wonbae             | Kp-III-104                   |
| KO WonBae             | Kp-III-109                   |
| KO Wonbae             | Kp-III-110                   |
| KO WonBae             | Kp-III-106                   |
| KO Yongkyu            | Cp-IV-007                    |
| KO Yongkyu            | Cp-IV-008                    |
| KO Young-Ho           | Kp-III-078                   |
| KO Young-Ho           | Kp-III-055                   |
| KO Yumi               | BG-30                        |
| KOH Eui-Kwan          | Dp-III-146                   |
| KOH Seoktae           | LG-06                        |
| KOH Y.Y.              | DG-23                        |
| KOIZHAIGANOVA Raushan | Ep-I-028                     |
| KOJI Noda             | PD-05(초)                     |
| KOJIMA Seiji          | Dp-V-183                     |
| KOLEV Nikolay         | BG-03                        |
| KOMAKI H              | KG-16(초)                     |
| KONG Daejung          | Bp-V-007                     |
| KONG Ki-jeong         | Ep-V-095                     |
| KONG Ki-Jeong         | Dp-III-164                   |
| KOO Bon-Gil           | Ep-I-041                     |
| KOO Tae-Yeong         | HF-06                        |
| KOO Tae-Yeong         | HF-11                        |
| KOOLEN Jack H.        | Fp-IV-008                    |
| KORTZ Ulich           | Dp-III-129                   |
| KOTERA katsushige     | Bp-V-007                     |
| KREMER R. K.          | PC-14(초)                     |
| KRISLOCK Abram        | BG-03                        |
| KRYLOV Yu             | BG-24                        |
| KRYLOV YU             | BG-25,<br>BG-26,<br>Bp-V-021 |
| KULKARNI Atul         | Ep-I-026,                    |

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 Kp-III-097,  
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 KUMAR Brijesh Kp-III-089  
 KUMAR Kiran Kp-III-087  
 KUMAR Ravi Dp-III-115  
 KUMAR Sandeep HF-07  
 KUZNETSOV Viacheslav  
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 KWAK C.-H. Ep-I-022  
 KWAK Chang Ha KG-08  
 KWAK Hojeong Ip-II-038  
 KWAK Hojeong FG-01  
 KWAK June Sik Kp-III-105,  
 Kp-III-107  
 KWAK Jun-Hyuk Ep-I-056  
 KWAK Wooseop Fp-IV-016  
 KWANGHO Jeong Kp-II-019  
 KWEON Jin Jung Dp-I-044  
 KWON Bong-Joon  
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 KWON Dae-Gyeon  
 Ep-I-017  
 KWON H. W. FG-18  
 KWON H.W. Kp-III-083  
 KWON Hyeok-Jung  
 Hp-IV-054,  
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 KWON Hyeok-Jung  
 Hp-IV-051  
 KWON Hyun Woong  
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 KWON Hyun-Joung  
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 KWON Kyoung-Cheol  
 Ep-V-113  
 KWON Oh-Jang Ip-II-020  
 KWON Okyu Fp-IV-023  
 KWON Oryong Dp-III-161

KWON Se Gab Dp-III-171  
 KWON Sungchul Fp-IV-013  
 KWON T.Y. JG-12  
 KWON Woo Jin Jp-III-015  
 KWON Y.S. DG-23  
 KWON Y.S. Dp-I-086  
 KWON Yong Seung  
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 KWON Yong Seung  
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 KWON Yong Seung  
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 KWON Yongseung  
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 KWON Young Kwan  
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 KWON Younghun  
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KYUNG W.S. DG-23  
 KYUNG SOOK KIM  
 BG-37  
 LABEAN Thomas H.  
 Ep-I-026  
 LE M. D. DG-37(초)  
 LEDVOSKOY Alexander  
 Bp-V-016  
 LEDWIG Tim CS-15(초)  
 LEE Ah Rahm Kp-III-107  
 LEE Ah Rahm Kp-III-105  
 LEE Bo Wha Dp-III-102,  
 Dp-III-126,  
 Dp-V-180  
 LEE Bum-Hoon BG-17  
 LEE Bum-Hoon BG-18  
 LEE Byung Cheol  
 PD-06(초)  
 LEE Byung Yang Dp-I-019  
 LEE Chang Hoon Dp-III-133,  
 Dp-III-137,  
 Dp-III-146  
 LEE Chang-Eun EG-33  
 LEE Chang-Hee PB-03  
 LEE Chang-Hwan  
 LS-08  
 LEE Changhyoup  
 JG-17,  
 JG-18,  
 JG-19  
 LEE Chang-Hyuck  
 Ip-II-057  
 LEE Chang-Mook  
 DG-75  
 LEE Changsun Ep-I-025  
 LEE Chang-Won Dp-III-138  
 LEE Cheol Eui Dp-III-152  
 LEE Cheol Eui Dp-III-130  
 LEE Cheol Eui Dp-III-147  
 LEE Cheol Eui Dp-III-149

LEE Cheol Eui Dp-III-103  
 LEE Cheol Eui Dp-I-044  
 LEE Cheol Jin Dp-I-001,  
 Dp-I-036  
 LEE Choong Hun DG-12,  
 Dp-I-022  
 LEE Chun Sik PD-08(초)  
 LEE Chung-II Cp-IV-022  
 LEE Chungyeol Ep-I-035  
 LEE Chungyeol EG-04  
 LEE D DG-11  
 LEE D. J. Dp-I-057  
 LEE D,H Dp-I-021  
 LEE D.-S FG-14  
 LEE Daesu DG-52  
 LEE Daesu DG-50  
 LEE Deok-sun Fp-IV-002  
 LEE Dong Ryeol Dp-III-091,  
 Dp-III-113  
 LEE Dong Uk Kp-II-039  
 LEE Dong Uk Kp-II-016  
 LEE Donghun Dp-I-010  
 LEE Dongmyeong  
 Fp-IV-023  
 LEE Dong-Myung  
 Fp-IV-008  
 LEE Dong-Seon Kp-III-075  
 LEE Eok kyun Dp-III-121  
 LEE Eunmo Dp-III-147  
 LEE Eunmo Dp-III-149  
 LEE Eunsongyi EG-28  
 LEE Gil-Ho DG-46,  
 DG-47  
 LEE Gil-Ho PC-10(초)  
 LEE Gun-Do DG-40  
 LEE Hakjoon KG-05  
 LEE Han Sung EG-24  
 LEE Hangyeol Ip-II-050  
 LEE Han-Koo Dp-I-027,  
 Kp-II-050

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| LEE Han-Koo    | Kp-II-022               |
| LEE Hanoh      | Dp-III-125              |
| LEE H-G.       | PC-05(초)                |
| LEE Ho Hyoung  | Hp-IV-064               |
| LEE Ho Sueb    | Ep-I-038,<br>Ep-I-044   |
| LEE Hong       | Ip-II-002               |
| LEE Hosik      | DG-32                   |
| LEE Ho-Sueb    | Ip-II-026               |
| LEE Hosun      | Kp-II-044               |
| LEE Hu-Jong    | DG-41                   |
| LEE Hu-Jong    | DG-46,<br>DG-47         |
| LEE Hu-Jong    | PC-10(초)                |
| LEE Hu-Jong    | DG-17                   |
| LEE Hye-suk    | Ip-II-057               |
| LEE Hyo Jun    | Kp-II-039               |
| LEE Hyun Jung  | Hp-III-005              |
| LEE Hyunbok    | EG-34                   |
| LEE Hyung Mok  | LG-04                   |
| LEE Hyungjun   | DG-33                   |
| LEE Hyung-Jun  | Ep-I-031                |
| LEE Hyun-Seung | Dp-I-010                |
| LEE Hyun-sook  | PC-05(초)                |
| LEE Hyun-Sook  | PC-04(초)                |
| LEE Hyun-Uk    | Dp-III-157              |
| LEE Hyun-Uk    | Dp-I-008                |
| LEE Hyun-Uk    | Dp-I-015,<br>Dp-I-018   |
| LEE I,J        | Ep-I-001                |
| LEE Ik-Jae     | Dp-I-027,<br>Kp-II-050  |
| LEE Ik-Jae     | Kp-II-022               |
| LEE J. S.      | DG-37(초)                |
| LEE J.H        | Cp-IV-010,<br>Cp-IV-013 |
| LEE J.I.       | BG-36                   |
| LEE J.M.       | BG-36                   |
| LEE J.S.       | CG-18                   |

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|----------------|---------------------------|
| LEE jabin      | Kp-III-103                |
| LEE JaBin      | Kp-III-108                |
| LEE Jae Sung   | PD-08(초)                  |
| LEE Jae Sung   | EG-27                     |
| LEE Jae Woo    | Fp-IV-002                 |
| LEE Jae-Chul   | Dp-III-138                |
| LEE Jaeran     | Ip-II-035                 |
| LEE Jai-Hyung  | JG-16                     |
| LEE Jei Hyun   | EG-34                     |
| LEE Jeong Yong | Kp-II-044                 |
| LEE Jeongkug   | EG-16                     |
| LEE Jeong-O    | EF-02(초)                  |
| LEE Jeong-O    | Ep-I-056                  |
| LEE Jeong-O    | Dp-I-038,<br>Ep-V-095     |
| LEE Jeong-O    | Dp-I-023,<br>Ep-I-053     |
| LEE Jeong-O    | PC-10(초)                  |
| LEE Jhinhwan   | PC-01(초)                  |
| LEE Ji-Hwan    | DG-01                     |
| LEE Jihyun     | Kp-II-031                 |
| LEE Jin Seok   | EG-05                     |
| LEE Jin-gyou   | Kp-III-061                |
| LEE Jinhyoung  | JG-17,<br>JG-18,<br>JG-19 |
| LEE Jinwoo     | DG-02                     |
| LEE Jong Dae   | Ep-V-113                  |
| LEE Jong Man   | CG-20                     |
| LEE Jong-Ho    | EG-33                     |
| LEE Jongseok   | BG-10                     |
| LEE Joo Kyung  | Dp-I-017                  |
| LEE Ju Hahn    | PD-08(초)                  |
| LEE Ju Hahn    | CS-06                     |
| LEE Ju Ho      | Kp-II-044                 |
| LEE Jungjai    | BG-32                     |
| LEE Jungmin    | Dp-I-041                  |
| LEE Jung-Nam   | Ep-V-113                  |
| LEE Jun-Hae    | DG-14                     |
| LEE Jun-Hae    | DG-13                     |



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| LEE Junseok     | Kp-III-104 | LEE M. H.      | Dp-I-048   |
| LEE JunSeok     | Kp-III-109 | LEE M.H        | Dp-I-047   |
| LEE Junseok     | Kp-III-110 | LEE M.H        | Dp-I-056   |
| LEE JunSeok     | Kp-III-106 | LEE M.H        | Dp-I-076   |
| LEE Junwye      | Ep-I-030   | LEE M.J.       | BG-36      |
| LEE Junwye      | Ep-I-034   | LEE M.K.       | CG-18      |
| LEE Junwye      | Ep-I-026   | LEE M.K.       | BG-36      |
| LEE Junwye      | Ep-I-020   | LEE M.W        | Cp-IV-010, |
| LEE K.B.        | CG-18      |                | Cp-IV-013  |
| LEE K.B.        | BG-36      | LEE Man Woo    | Bp-V-035   |
| LEE K.S.        | JG-12      | LEE Manhee     | EG-38      |
| LEE Kang Hee    | Ip-II-050  | LEE Manhee     | EG-06      |
| LEE Kang Hyuck  | Ep-V-100   | LEE Manwoo     | CG-13,     |
| LEE Kang-Hyuck  | KG-11      |                | CG-14      |
| LEE Keun Young  | Kp-III-089 | LEE ManWoo     | Cp-IV-009  |
| LEE Keun Young  | KG-11      | LEE Min Kie    | CG-20      |
| LEE Ki Tae      | Hp-IV-064  | LEE Min-Ho     | JG-05      |
| LEE Kimoon      | Dp-I-062   | LEE Min-Jae    | DG-01      |
| LEE Kunyoung    | EG-06      | LEE Moonjoo    | Jp-III-013 |
| LEE Kwanghyun   | Ep-V-103   | LEE Myoung Hee |            |
| LEE Kwang-Sei   | Dp-V-188   |                | Ep-V-124   |
| LEE Kwang-Sei   | Dp-I-044   | LEE Myoung Hee |            |
| LEE Kwangyong   | EG-21      |                | Ep-V-111,  |
| LEE Kwangyoung  | Ep-V-099   |                | Ep-V-116   |
| LEE Kyoung Beom |            | LEE Myoung-Jae | EG-27      |
|                 | CG-20      | LEE Myung-Jae  | EG-29      |
| LEE Kyu Joon    | DG-27      | LEE Naesung    | Ep-I-035   |
| LEE Kyu Won     | Dp-III-152 | LEE Naesung    | EG-04,     |
| LEE Kyu Won     | Dp-III-130 |                | EG-17,     |
| LEE Kyu Won     | Dp-III-103 |                | EG-24      |
| LEE Kyu Won     | Dp-I-044   | LEE Nam Hoon   | DG-24      |
| LEE Kyujoon     | Ep-V-087   | LEE S.         | Dp-I-075   |
| LEE Kyung Eun   | Dp-V-181   | LEE S.B.       | JG-12      |
| LEE Kyung Sei   | CG-27      | LEE S.-H.      | DG-37(초)   |
| LEE Kyungha     | Ep-V-103   | LEE S.J.       | BG-36      |
| LEE Kyung-Min   | DG-55      | LEE S.Y        | Cp-IV-010, |
| LEE Kyu-Ok      | EG-33      |                | Cp-IV-013  |
| LEE Kyu-Seung   | Kp-III-081 | LEE Sam Hyeon  | EG-11      |
| LEE M. H.       | Dp-I-060   | LEE Sam Hyeon  | EG-12,     |
| LEE M. H.       | Dp-I-049   |                | EG-13,     |

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|----------------|------------|---------------|------------|
|                | Ep-I-003,  | LEE Su Houg   | CG-24(초)   |
|                | Ep-I-004   | LEE Su Yong   | Ep-I-029   |
| LEE Sang Wook  | Ep-I-049,  | LEE Sun Ae    | Ep-V-124   |
|                | Ep-V-104   | LEE Sun Ae    | Ep-V-116   |
| LEE Sang Wook  | EF-07(초)   | LEE Sungeun   | BG-10      |
| LEE Sang Yoon  | KG-11      | LEE Sung-Ho   | KG-04      |
| LEE Sang-Bum   | FG-01      | LEE Sung-Ik   | PC-04(초)   |
| LEE SangGap    | Dp-V-184   | LEE Sung-Ik   | PC-05(초)   |
| LEE Sang-Gui   | Fp-IV-023  | LEE T. H.     | Dp-I-028,  |
| LEE Sanghoon   | KG-05      |               | Dp-III-145 |
| LEE Sanghoon   | DG-09      | LEE Tae-geol  | Ep-V-076   |
| LEE Sanghwa    | DG-02      | LEE W.        | Hp-III-001 |
| LEE Sanghwa    | DG-03      | LEE WON JAE   | Kp-II-018, |
| LEE Sang-hwa   | Dp-I-041   |               | Kp-II-042  |
| LEE Sanghyo    | Kp-III-104 | LEE Y. P.     | Ep-I-054   |
| LEE SangHyo    | Kp-III-109 | LEE Y. S      | Dp-I-057   |
| LEE SangHyo    | Kp-III-106 | LEE Y. S.     | EG-40      |
| LEE Sangkyung  | JG-10      | LEE Y. S.     | Dp-V-185   |
| LEE SangWook   | Ep-I-019   | LEE Y. W.     | DG-37(초)   |
| LEE Sangwook   | Ep-V-108   | LEE yeon ja   | Ep-I-018   |
| LEE Sangyeop   | KG-05      | LEE Y-O       | CG-14      |
| LEE Sangyong   | Dp-I-041   | LEE Young Hee | Dp-I-009   |
| LEE Seok-Hwan  | HG-07      | LEE Young Joo | Dp-III-121 |
| LEE seulgi     | Lp-IV-003  | LEE Young-Ouk | CS-11      |
| LEE Seulgi     | Lp-IV-007  | LEE Young-Ouk | CG-13      |
| LEE Seung Hwan |            | LEE Younjoo   | DG-68      |
|                | EG-12,     | LEE yumi      | lp-II-012  |
|                | EG-13,     | LEE, Nam Hoon | PC-13(초)   |
|                | Ep-I-003,  | LEE, Hanoh    | Dp-I-070   |
|                | Ep-I-004   | LEMMENS Peter | Dp-III-129 |
| LEE seungho    | Ep-I-035   | LI .J         | Bp-V-024   |
| LEE Shin Buhm  | EG-27      | LI .Y.J       | Bp-V-024   |
| LEE so jeong   | Hp-IV-052  | LI Guo jie    | Kp-III-084 |
| LEE Soo-hyun   | Fp-IV-021  | LI Guojie     | Kp-III-090 |
| LEE Soonchil   | Dp-V-184   | LI Guojie     | Kp-III-082 |
| LEE Soonchil   | Dp-III-106 | LI Huaiyong   | Ep-I-044   |
| LEE soongul    | Ep-V-071   | LI J.         | BG-36      |
| LEE Soo-Young  | lp-II-038  | LI J.         | BG-05      |
| LEE Soo-Young  | FG-01      | LI j.         | BG-35      |
| LEE Su Houg    | CG-07      | LI Jian       | Dp-I-069   |

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| LI Jin             | BG-02(초)           |
| LI Lijun           | Ep-I-023           |
| LI Song-Mei        | Kp-III-094         |
| LI X.              | BG-36              |
| LI Y.J.            | BG-05              |
| LI y.j.            | BG-35              |
| LI, J.             | Bp-V-023           |
| LI, Y.J.           | Bp-V-023           |
| LIM Cheng Guan     | Ep-I-023           |
| LIM Cholong        | Bp-V-029           |
| LIM Daeyoung       | Kp-III-092         |
| LIM H. J.          | DG-54              |
| LIM Hyang-Tag      | IG-12              |
| LIM Hyunjin        | EG-05              |
| LIM In Taek        | Bp-V-003           |
| LIM Intaek         | Bp-V-009           |
| LIM Jae-Hong       | Bp-V-037           |
| LIM Jae-Sung       | Ep-V-113           |
| LIM James          | JG-18,<br>JG-19    |
| LIM Jongseok       | JG-10              |
| LIM Sooil          | LG-04              |
| LIM Sooin          | JG-16              |
| LIM Soyeon         | EG-21,<br>Ep-V-099 |
| LIM sunin          | Lp-IV-003          |
| LIM Sunin          | Lp-IV-007          |
| LIU .X             | KG-05              |
| LIU Chunli         | Dp-V-180           |
| LIU Jingling       | Dp-I-005           |
| LIU Na             | Ep-I-037           |
| LIU X.             | DG-09              |
| LO Young-Seop      | Dp-I-023           |
| LOMBARDO M.-P.     | PA-06              |
| LU D. H.           | Dp-I-068           |
| LUHMANN, JR. N. C. | Hp-III-001         |
| LUNDQVIST M ns     | Ep-V-079           |

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| LUSTERMANN Werner     | Bp-V-035                              |
| LUU Tran Trung        | IG-03                                 |
| LYAPIN Alexey         | Hp-IV-062                             |
| LYO In_Whan           | Dp-III-160                            |
| LYO In-whan           | DG-68                                 |
| M. Kim                | Hp-III-003                            |
| M. S. Seo             | Ep-V-086,<br>Ep-V-091                 |
| M. S. Seo             | Ep-V-093                              |
| M.J Rapp              | Cp-IV-009,<br>Cp-IV-010,<br>Cp-IV-013 |
| M.-J. CHOI            | Hp-III-010                            |
| MAAZ K                | Ep-I-023                              |
| MAAZ K.               | Ep-I-059                              |
| MAENG Seong Eun       | Fp-IV-002                             |
| MAJIMA Yutaka         | EG-21                                 |
| MALBERTI Martina      | Bp-V-013                              |
| MALBERTI Martina      | Bp-V-012                              |
| MAN WOO LEE           | BG-37                                 |
| MANNHO Cho            | Kp-II-019                             |
| MANN-HO Cho           | EG-35                                 |
| MARATHE Shashidharha  | IG-11                                 |
| MARATHE SHASHIDHARHA  | Ip-II-040                             |
| MARQUES Carlos Manuel | FG-06                                 |
| MATSEKH Arkadiy       | PC-03(초)                              |
| MATSUBARA K           | KG-16(초)                              |
| MATSUDA S.            | CS-12(초)                              |
| MAUNZ Peter           | JG-03                                 |
| MEIJER Gerard         | Jp-III-003                            |
| MEIJER Gerard         | JG-02(초)                              |

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| MENDELS Philippe   |            | MUN Bongjin       | Ep-V-079   |
|                    | DG-48      | MYUNG S.S.        | BG-36      |
| MENY Christian     | DT-01(초)   | N Danilov         | BG-23,     |
| METLUSHKO V.       | Dp-III-113 |                   | Bp-V-018,  |
| MILMAN Evgeniy     | CG-05      |                   | Bp-V-022   |
| MIN B. I.          | DG-05      | N NERT Gwilherm   |            |
| MIN B. I.          | Dp-I-052   |                   | Dp-I-046   |
| MIN B.I.           | Dp-III-105 | N. Danilov        | BG-21,     |
| MIN Boo Ki         | HG-03      |                   | BG-22,     |
| MIN Byeong Hun     | Dp-V-181   |                   | Bp-V-005   |
| MIN Byoung-Chul    |            | N. G. Deshpande   | Ep-V-086,  |
|                    | EF-08(초)   |                   | Ep-V-091,  |
| MIN C.-H.          | Kp-III-083 |                   | Ep-V-094   |
| MIN Kyoung Wook    |            | N. T. Tung        | Ep-VI-068  |
|                    | Hp-IV-064  | NA S. W.          | PC-14(초)   |
| MIN Kyung-Jean     | Hp-IV-054  | NA Yong-su        | Hp-III-013 |
| MIYOUNG KIM        | Dp-V-177   | NA Yong-Su        | Hp-III-014 |
| MOON Byung Kee     |            | NAGAMIYA Shoji    | PB-02      |
|                    | Ep-I-057,  | NAKAJIMA Kenji    | PB-04      |
|                    | Ep-V-069   | NAKAMURA Shin     | CS-16(초)   |
| MOON Chang Bum     |            | NAKANISHI Takashi |            |
|                    | CS-06      |                   | Dp-I-038   |
| MOON Chang-Youn    |            | NAM Hyewon        | Kp-III-104 |
|                    | DG-20      | NAM HyeWon        | Kp-III-109 |
| MOON Dong Ho       | CG-27      | NAM Hyewon        | Kp-III-110 |
| MOON Geol          | JG-20      | NAM HyeWon        | Kp-III-106 |
| MOON Jisoo         | DG-20      | NAM In-Huk        | HF-01      |
| MOON Jisun         | DG-56(초)   | NAM Inhyuk        | Hp-IV-074  |
| MOON Joon-Young    |            | NAM S.H.          | HF-06,     |
|                    | Fp-IV-008, |                   | HF-07      |
|                    | Fp-IV-015  | NAM shinwoo       | Lp-IV-003  |
| MOON Jun Young     |            | NAM Shinwoo       | Lp-IV-007  |
|                    | CS-06      | NAM Siyoung       | BG-17      |
| MOON Songky        | Ip-II-038  | NAM Soo-hyeon     | BG-09      |
| MOON Songky        | FG-01      | NAM Soon-Kwon     |            |
| MOON SUNG-IK       | Hp-IV-048  |                   | Hp-IV-057  |
| MORIYAMA Shigetaka |            | NAM Soon-Kwon     |            |
|                    | BS-01(초)   |                   | Bp-V-008,  |
| MOSTOVOY M.        | DG-37(초)   |                   | Bp-V-014   |
| MOUNT Emily        | JG-03      | NAM Y.            | Hp-III-001 |

NAM Young Woo Ep-I-063  
 NAMEDA Etsushi Fp-IV-022,  
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 NAMKUNG Won HF-06  
 NAMKUNG WON Hp-IV-048  
 NARAYANAN Suresh  
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 NGUYEN Thi Minh Hien  
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 NHUNG Tran Hong  
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 NI Andrey CG-05  
 NIAZ Mansoor GG-05  
 NIELSEN Marina CG-24(초)  
 NIKI S KG-16(초)  
 NISHIYAMA Miho Bp-V-007  
 NOEK Rachel JG-03  
 NOGARET Alain DG-57  
 NOH Do Young Ip-II-051  
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 NOH Han-Jin Dp-III-124  
 NOH Heung-Ryoul  
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 NOH Heung-Ryoul  
 Jp-III-018,  
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 NOH Hyeon-Kyun  
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 NOH Hyeon-Kyun  
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 NOH Jaewoo Ip-II-057  
 NOH jin woo Ep-I-018  
 NOH Ji-young DG-45  
 NOH S. J. Dp-I-044  
 NOH S. J. Dp-III-130  
 NOH T. H. DG-52  
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 NOH Tae Won EG-27  
 NOHARA Minoru PC-12(초)  
 NOJIRI Hiroyuki Dp-III-129

NOJIRI Mihoko BS-02(초)  
 NOVELLO Mario LS-02  
 NOVIKOVA G BG-24  
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 OBA N. CS-12(초)  
 OBATA Toshiaki DG-18  
 ODKHUU Dorj Dp-III-123  
 OH Byeong Gyun  
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 OH Byung-Hoon CS-04  
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 OH Dong-Hwa DG-64  
 OH Eunsoon Kp-III-087  
 OH G.T Dp-I-021  
 OH Gwangtaek Dp-I-024  
 OH Gwangtaek Dp-I-029  
 OH Hwangyou EG-21,  
 Ep-V-099  
 OH Hyun Joo HG-03  
 OH Hyungju DG-23  
 OH Hyungju DG-21,  
 DG-22  
 OH In-Hwan Dp-V-188  
 OH Kyunghwan Ip-II-058  
 OH Pil Jae CG-20  
 OH S.J. Kp-III-083  
 OH Sang Min Ep-V-111  
 OH Sang-Soo PC-03(초)  
 OH Seong Y Hp-IV-063  
 OH Seong Yong HF-01  
 OH Su-Young DG-11  
 OH Yoon Seok DG-38  
 OH Young Jun DG-65  
 OH YoungDo Bp-V-007  
 OH Youngdo BG-03  
 OHINISHI Akira CG-24(초)  
 OHNO Takahisa DG-32

OKABAYASHI Youichi

Fp-IV-022,

Fp-IV-024

OKKYUN SEO DG-66

OKTAY M.B. PA-06

OKUMURA Teppei

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OLSEN .S.L Bp-V-024

OLSEN S. BG-36

OLSEN S.L. BG-05

OLSEN S.L. BG-35,  
Bp-V-023

OLSEN Stephen BG-08

OM Suwal IG-08

OSAKI Eisuke PC-09(초)

OSHEROFF Neil DG-03

PAK Eun Sick Dp-III-157

PAK Sang Woo Kp-II-016

PARC Yong Woon

HF-02

PARC YOUNG-WOON

Hp-IV-048

PARK B.H Dp-I-021

PARK Bae Ho Dp-I-029

PARK Bae Ho Dp-I-017

PARK BAE HO Dp-I-025

PARK Baeho EG-29

PARK Bae-Sig Ep-I-008,  
Ep-I-015

PARK Byeong-Gyu

Dp-III-122

PARK Byung Do BG-01(초),  
Bp-V-001

PARK C.-I. Ep-I-022

PARK Chang In KG-08

PARK Chawon CG-28

PARK Chong-Yun

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Ep-I-004

PARK D. Y. EG-40

PARK Dongho LG-03

PARK Dong-Won Ep-V-095

PARK Eul-doo Ep-I-001

PARK Eunsung DG-24

PARK Eunsung Dp-III-125

PARK Gangseo PC-11(초)

PARK Gi-Hyun CS-04

PARK H. BG-36

PARK H. K. Hp-III-001

PARK H. T Hp-III-005

PARK H.K. BG-04

PARK hong jip Hp-IV-052

PARK Hoon Ep-V-124

PARK Hoon Ep-V-111,  
Ep-V-116

PARK Hye Jin Ep-I-063

PARK Hyunjoon Dp-I-078

PARK Hyun-jun Ep-I-040

PARK Hyun-jun Dp-III-154

PARK Hyun-Kyu Ep-V-100

PARK Hyun-Kyu Kp-III-089

PARK In Gon BG-01(초),  
Bp-V-001

PARK in sok Dp-I-088

PARK In Suk Dp-I-085

PARK Inkyu PA-04

PARK Inkyu CG-28

PARK J. S. Dp-I-060

PARK J. S. Dp-I-049

PARK J. S. Dp-I-048

PARK J. W. Dp-I-057

PARK J.-N. Dp-III-145

|                |   |
|----------------|---|
| PARK J.S       | Dp-I-047                                  |
| PARK J.S       | Dp-I-056                                  |
| PARK J.S       | Dp-I-076                                  |
| PARK Jae Whan  | DG-63                                     |
| PARK Jaehun    | Kp-II-022                                 |
| PARK Jae-Hyun  | DG-17                                     |
| PARK Jae-Won   | PB-06                                     |
| PARK Jea-Gun   | Kp-II-015                                 |
| PARK Jea-Gun   | Kp-II-008                                 |
| PARK jea-gun   | Ep-V-113                                  |
| PARK Je-Geun   | PB-01                                     |
| PARK Ji-Hoon   | DG-13                                     |
| PARK Jinwoo    | Dp-III-159                                |
| PARK Jinwoo    | Dp-III-168                                |
| PARK Jin-Woo   | Hp-III-014                                |
| PARK Jiyoung   | Ip-II-058                                 |
| PARK Jong Jin  | EG-12,<br>EG-13,<br>Ep-I-003,<br>Ep-I-004 |
| PARK Joon Won  | Kp-III-092                                |
| PARK Joon-Suh  | DG-28                                     |
| PARK Jun Kue   | Dp-III-130                                |
| PARK Jun Woo   | Kp-II-044                                 |
| PARK Jung Ho   | KG-04                                     |
| PARK Kyung-Jin | Kp-II-008                                 |
| PARK Mijin     | Fp-IV-015                                 |
| PARK Min       | Ep-I-063                                  |
| PARK Min-Seok  | PC-04(초)                                  |
| PARK minsuck   | Kp-II-043                                 |
| PARK S         | EF-09(초)                                  |
| PARK S. Y.     | Ep-I-054                                  |
| PARK S.E.      | JG-12                                     |
| PARK Sang Kook | Dp-I-087                                  |
| PARK Sang Kook | Dp-I-090                                  |
| PARK Sang-Joon | HG-07                                     |
| PARK Sang-jun  | Ip-II-057                                 |
| PARK Sangnam   | CG-28                                     |

|                |                         |
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| PARK Sang-Youn | Dp-III-122              |
| PARK Se-Hwan   | Cp-IV-001,<br>Cp-IV-004 |
| PARK Se-Hwan   | CS-09                   |
| PARK Seong Hee | Hp-IV-064               |
| PARK seongmin  | Kp-II-049               |
| PARK Seongtae  | Ep-V-125                |
| PARK Serin     | Ep-I-053                |
| PARK Seung Joo | Ep-V-104                |
| PARK Seungkeun | CG-27                   |
| PARK seungmin  | Kp-II-043               |
| PARK sewhi     | Ip-II-012               |
| PARK Sora      | DG-42                   |
| PARK So-Young  | Dp-I-008                |
| PARK Sung Ha   | PD-07(초)                |
| PARK Sung Ha   | Ep-I-030                |
| PARK Sung Ha   | Ep-I-034                |
| PARK Sung Ha   | Ep-I-026                |
| PARK Sung Wook | Ep-V-067                |
| PARK Sungha    | EG-03                   |
| PARK Sungha    | Ep-I-020                |
| PARK Sung-Hun  | Dp-III-133              |
| PARK SUNG-JU   | Hp-IV-048               |
| PARK T.        | Dp-I-086                |
| PARK Tae Soon  | CG-20                   |
| PARK Tae-sun   | CS-04                   |
| PARK Tuson     | DG-24                   |
| PARK Tuson     | Dp-III-125              |
| PARK W.G.      | Kp-III-083              |
| PARK Woo Yoon  | CS-08                   |
| PARK Y. B.     | Hp-III-005              |
| PARK Y.S.      | Hp-III-013              |
| PARK Yongjin   | Dp-III-164              |
| PARK Young an  | Dp-III-117              |
| PARK Young Jun | KG-12                   |
| PARK Young-Ho  | CS-10                   |

# PARK YOUNG-JUNG

|                                 |                                    |
|---------------------------------|------------------------------------|
|                                 | Hp-IV-048                          |
| PARK Yun Daniel                 | DG-61                              |
| PARK Yun Daniel                 | EF-05(초)                           |
| PARK Yun Daniel                 | DG-62                              |
| PARK Yun Daniel                 | Dp-I-019                           |
| PARK Yun Daniel                 | DG-08                              |
| PARK Yun Daniel                 | KG-02                              |
| PARK Yung Woo                   | Ep-I-049,<br>Ep-I-063,<br>Ep-V-104 |
| PARK, Tuson                     | Dp-I-070                           |
| PASHKOVSKIY Vasily              | HG-07                              |
| PEREIRA DOS SANTOS              |                                    |
| Franck                          | Jp-III-004                         |
| PHENIX Forward Upgrade<br>Group | CG-17                              |
| PHILIP Bambade                  | Hp-IV-058                          |
| PHILIPPE Regreny                | IG-01(초)                           |
| PILGUN OH                       | DG-66                              |
| PINCUS Philip A.                | DG-01                              |
| PIORO-LADRIERE Michel           | DG-18                              |
| PODE Ramchandra                 | Dp-I-032                           |
| POLOMOFF N. A.                  | Dp-I-075                           |
| POLYAKOV Maxim                  | CS-17(초)                           |
| PRATAP SINGH Abhinav            | Dp-III-115                         |
| PRINZ Sebastian                 | Dp-V-188                           |
| PUSHPENDRA Kumar                | Dp-III-129                         |
| QU Xuesong                      | Ep-I-046                           |
| RA Young-Sik                    | IG-12                              |
| RAGUNATHAN Kaushik              | DG-02                              |

# RAJAGUKGUK Reni

|                  |                         |
|------------------|-------------------------|
|                  | Dp-III-102              |
| RAMESH R.        | DG-38                   |
| RASTELLI Armando | Kp-III-067              |
| REE Moonhor      | HF-06                   |
| REHMAN Mushtaq   | Dp-III-120              |
| REN Zhi-An       | Dp-I-085                |
| RHEE Chunghi     | PD-01(초)                |
| RHEE Jae Hui     | Kp-II-016               |
| RHO JaeHoon      | DG-67                   |
| RI Hyeong-Cheol  | Dp-I-087                |
| RI Hyeong-Cheol  | Dp-I-090                |
| RIM Chaiho       | BG-15(초)                |
| RO Sangryul      | Bp-V-003                |
| RO Sangryul      | Bp-V-009                |
| RO T.I           | Cp-IV-010,<br>Cp-IV-013 |
| RO tae-Ik        | Cp-IV-009               |
| ROBINSON Ian K.  | Ep-I-040                |
| ROESER Ulf       | Bp-V-035                |
| ROH Yonghan      | Ep-I-034                |
| RONNING F.       | Dp-I-086                |
| ROTENBERG Eli    | DG-72                   |
| ROTH Siegmar     | Ep-I-028                |
| ROTH Siegmar     | Ep-V-098                |
| ROTHEMUND Paul   | EG-03                   |
| RUFFINI Remo     | LS-01                   |
| RULE K.          | DG-37(초)                |
| RYAN S.          | PA-06                   |
| RYOU Junga       | Dp-III-159              |
| RYU Byungki      | DG-53                   |
| RYU Byungki      | DG-65                   |
| RYU Geonmo       | CG-28                   |
| RYU Junghee      | JG-18,<br>JG-19         |
| RYU Mee-Yi       | Kp-III-070              |



|                      |                       |
|----------------------|-----------------------|
| RYU Min Sang         | CS-02                 |
| RYU, M. S.           | CS-05                 |
| S. H. Chun           | DG-39                 |
| S. J. Lee            | Ep-V-086,<br>Ep-V-091 |
| S.H. Kim             | Hp-III-012            |
| S.J. Wang            | Hp-III-012            |
| S.K. Kim             | Hp-III-012            |
| SAGARA K.            | CS-12(초)              |
| SAIGA T.             | EG-32                 |
| SAIGA Yuta           | Ep-V-089              |
| SAITO Riichiro       | DG-41                 |
| SANDERS G.D.         | KG-15                 |
| SANGARAJU Sambasivam | Kp-III-082            |
| SANGCHUL Lee         | EG-23                 |
| SANGHOON UHM         | DG-66                 |
| SANGWOOK LEE         | Ep-V-107              |
| SATO Noriaki K.      | PC-09(초)              |
| SATO Y.              | BG-36                 |
| SAUN Seung-Bo        | Dp-V-184              |
| SCH LLKOPF Wieland   | Jp-III-003            |
| SCH LLKOPF Wieland   | JG-02(초)              |
| SCHEWE H.Cristian    | Jp-III-003            |
| SCHMIDT Oliver G.    | Kp-III-067            |
| SCHUKRAFT Juergen    | PA-11                 |
| SEFKO felix          | Bp-V-007              |
| SEHUN Kim            | Jp-III-023            |
| SEKIHARA Takayasu    | CG-24(초)              |
| SEO Byung Il         | Ep-I-056              |
| SEO Dongju           | Kp-III-075            |
| SEO Eunsung          | BG-11                 |
| SEO Hee              | PD-08(초)              |
| SEO Hee              | Hp-IV-064             |

|                 |  |
|-----------------|--|
| SEO Hoe-Joo     | Dp-V-186   |
| SEO junghyun    | Kp-II-049  |
| SEO Jung-Tak    | DG-13  |
| SEO Ju-Seok     | KG-12  |
| SEO Min Jeong   | Jp-III-018,<br>Jp-III-019                            |
| SEO Miri        | Ep-V-108   |
| SEO S.-Y.       | Ep-I-022   |
| SEO Soo Young   | KG-08  |
| SEO Soonbeom    | Dp-III-125   |
| SEO Sunae       | Dp-III-138,<br>Ep-V-108                              |
| SEO Wontaek     | Jp-III-013   |
| SEO Y. K.       | EG-40  |
| SEO Y. K.       | Dp-V-185   |
| SEO Yong Mun    | EG-11,<br>EG-12,<br>EG-13,<br>Ep-I-003,<br>Ep-I-004  |
| SEO Yongho      | EG-22  |
| SEO YUNSEOK     | BG-29  |
| SEO. Soonbeom   | Dp-I-070   |
| SEOK Sang il    | Kp-II-016  |
| SEOK-IN Na      | EG-23  |
| SEOL Kyung-Tae  | Hp-IV-054  |
| SEOL Kyung-Tae  | Hp-IV-051  |
| SEON Oksu       | BG-07  |
| SEONG-JU Park   | EG-23  |
| SERIN Park      | EF-02(초)   |
| SEUNG Hyun Min  | Ep-V-113   |
| SHAHID Muhammad | DG-58,<br>DG-59,<br>DG-60,<br>Dp-I-005,<br>Dp-I-016, |

|                     |            |                   |             |
|---------------------|------------|-------------------|-------------|
|                     | Dp-I-020,  | SHIN jaeik        | Lp-IV-003   |
|                     | Dp-I-033,  | SHIN Jae-ik       | Lp-IV-007   |
|                     | Dp-I-037,  | SHIN JaeWon       | Cp-IV-006,  |
|                     | Dp-I-040   |                   | Cp-IV-022   |
| SHAKIR Imran        | DG-58,     | SHIN Ji Hong      | Dp-I-001,   |
|                     | DG-59,     |                   | Dp-I-036    |
|                     | DG-60,     | SHIN Jihoon       | EG-03       |
|                     | Dp-I-005,  | SHIN Jinsik       | KG-05       |
|                     | Dp-I-016,  | SHIN Kyung-Ho     | Dp-III-138  |
|                     | Dp-I-020,  | SHIN Kyung-Ho     | EF-08(초)    |
|                     | Dp-I-033,  | SHIN M. K.        | Ep-I-054    |
|                     | Dp-I-037,  | SHIN Mi-Hee       | Kp-II-015   |
|                     | Dp-I-040   | SHIN Mi-Hee       | Kp-II-008   |
| SHARMA Bharat Kumar |            | SHIN Moon-Su      | Kp-II-031   |
|                     | Dp-III-161 | SHIN R. H.        | DG-74       |
| SHEN Yanfei         | Dp-I-038   | SHIN Seunghwan    | Hp-IV-070   |
| SHEN Z. X.          | Dp-I-068   | SHIN Seunghwan    | HF-07       |
| SHIGETO Kabuki      | PD-03(초)   | SHIN Yong-il      | JG-15       |
| SHIM Hyun Ha        | Hp-IV-064  | SHIN yong-il      | Jp-III-015  |
| SHIM Ji Hoon        | DG-27      | SHIN Yooleemi     | Dp-I-081,   |
| SHIM Seung Bo       | KG-02      |                   | Dp-III-104, |
| SHIM Tae-Hun        | Kp-II-015  |                   | Dp-III-132  |
| SHIM Tae-Hun        | Kp-II-008  | SHIN Younghoon    | lp-II-038   |
| SHIN Bong Gyu       | DG-64      | SHIN Younghoon    | FG-01       |
| SHIN Dong Geun      | Dp-III-102 | SHIN Yun-Sok      | Dp-I-010    |
| SHIN Dong Hoon      | Dp-I-001,  | SHIN Yun-Sok      | DG-18       |
|                     | Dp-I-036   | SHUNSKE Tozuka    |             |
| SHIN Donghan        | DG-21,     |                   | Bp-V-007    |
|                     | DG-22      | SHUNSUKE Kurosawa |             |
| SHIN Dong-Myeong    |            |                   | PD-03(초)    |
|                     | Fp-IV-007  | SUJIN SUNG        | DG-66       |
| SHIN Hee-Sung       | Cp-IV-001  | SILVA Antonio     | CS-15(초)    |
| SHIN Ho Sim         | Fp-IV-018  | SIM Kwang-Souk    |             |
| SHIN Hyeonjoon      | BG-17      |                   | CG-27       |
| SHIN Hyo-Sup        | lp-II-005  | SIN SANG-JIN      | BG-29       |
| SHIN Hyun-Joon      | Kp-II-022  | SINCLAIR D.K.     | PA-06       |
| SHIN Hyun-Joon      | Dp-I-027,  | SIRUSI ARVIJ Ali  |             |
|                     | Kp-II-050  |                   | Hp-IV-068   |
| SHIN Hyun-Jun       | EF-10(초)   | SKULLERUD J.-I.   | PA-06       |
| SHIN IKJAE          | BG-29      | SO J.H.           | BG-36       |

SOCHICHIU Corneliu BG-34

SON Chang Hee DG-50

SON D. BG-04

SON Dong-Chul Hp-IV-062

SON J.W Dp-I-021

SON Ji-Su KG-04

SON Jong Wan Dp-I-017

SON K. Dp-I-028

SON Young-Woo DG-19

SON Young-Woo DG-33

SON Young-Woo DG-41

SONG D. J. DG-72

SONG D.J. DG-23

SONG Hooyoung KG-04

SONG J.H. CG-18

SONG Jin Sop BG-01(초),  
Bp-V-001

SONG Jung-Hoon Kp-III-061

SONG Ki Myung Dp-III-112

SONG M. EG-40

SONG N. H. Hp-III-005

SONG SangHoon Ep-I-040

SONG sanghoon Dp-III-154

SONG Sanghyeon Bp-V-009

SONG Sanghyeon Bp-V-003

SONG Seung-Hyun Kp-II-015

SONG T. K. Dp-I-060

SONG T. K. Dp-I-049

SONG T. K. Dp-I-048

SONG T.K Dp-I-047

SONG T.K Dp-I-056

SONG T.K Dp-I-076

SONG Tae Kwon DG-50

SONG Tae-Yung Cp-IV-004

SONG Tae-Yung CS-11

SONG Yenan Dp-I-001,  
Dp-I-036

SONG Yoo Jang DG-26

SONG Yoo Jang DG-27

SONG Young-Gi Hp-IV-054

SONG Younghoon Jp-III-013

STANTON C.J. KG-15

SUBRAMANIAM Nagarajan  
Ganapathi KG-09

SUH B. J. Dp-I-028,  
Dp-III-145

SUH Tae-Suk Cp-IV-022

SUK Hyyong HF-01

SUK Hyyong Hp-IV-063

SUK Hyyong Hp-IV-068,  
Hp-IV-074

SUK Hyyong Hp-IV-072

SULTANA Ishrat Ep-I-023

SULTANA Ishrat Ep-I-059

SUN Yuning Dp-I-001,  
Dp-I-036

SUNG Hojin Dp-III-124

SUNG Kil Dong Dp-III-117

SUNG Nark Eon Dp-I-027

SUNG Y. S. Dp-I-049

SUNG Y. S. Dp-I-048

SUNG Y.S Dp-I-047

SUNG Y.S Dp-I-056

SUNG Y.S Dp-I-076

SUNGHWAN Kim Ep-VI-070

SUNGMIN Park Dp-V-176,  
Dp-V-191

SUNGMO Ahn Ep-VI-070

SUNGWOO Jo Dp-V-176,  
Dp-V-191

TADASHI KAMBARA PD-02(초)

TAE Giyoong Ip-II-051

TAEHYEON Kim Kp-II-019

TAKABATAKE T. EG-32  
 TAKAGI Hidenori PC-12(초)  
 TAKAMI Tomohide  
    Dp-I-017  
 TAKESHITA Thoru  
    Bp-V-007  
 TAKHEE Lee EG-23  
 TAMBUNAN OCTOLIA  
 TOGIBASA Dp-V-180  
 TAMPO H KG-16(초)  
 TAMURA nobuyuki  
    PC-09(초)  
 TAN H. H Kp-III-098  
 TAN H. H. Kp-III-100  
 TANAKA Kazuhiro  
    PB-07  
 TANIDA K. BG-36  
 TANIGUCHI M. CS-12(초)  
 TARUCHA Seigo DG-18  
 TAUCHI Toshiaki  
    Hp-IV-062  
 TERANISHI T. CS-12(초)  
 TERZOLO Laurent  
    Hp-III-013  
 THAKUR Anup Kp-II-022  
 THOMPSON J.D. Dp-I-086  
 THOMPSON. J.D. Dp-I-070  
 TOBIAS B. Hp-III-001  
 TOKURA Yasuhiro  
    DG-18  
 TOLMACHEV Yury  
    HG-07  
 TONELLI Guido PA-10  
 TORU Tanimori PD-03(초)  
 TOSHIRO Takabatake  
    Ep-V-089  
 TRAN VAN QUANG  
    Dp-V-177  
 TRANG Nguyen Thi Hong  
    Dp-I-016

UCHIDA shinichiro  
    DG-35  
 UHM Han S HF-01  
 UHM Han S HG-03  
 UHM Han S. Hp-IV-072  
 UHM Lucas, Z. H.  
    LF-01  
 ULLAH Aman Dp-I-065  
 UM Ja Yoon Kp-II-031  
 UM Jaegon FG-11  
 UM youngho Kp-II-043  
 UM youngho Kp-II-049  
 UNSEOK JUNG Ep-V-107  
 UOZMI Satoru Bp-V-012  
 UOZUMI Satoru Bp-V-013  
 UOZUMI Satoru Bp-V-007  
 V. KULAGIN VICTOR  
    Hp-IV-074  
 V. T. T. Thuy Ep-V-073  
 V. T. T. Thuy Ep-V-093,  
    Ep-VI-068  
 VAN TOL Hans Dp-III-129  
 VEERAPANDIAN Murugan  
    Ep-I-026  
 VEKHTER I. Dp-I-086  
 VERESHCHAGIN Gregory  
    LS-04  
 VIETER Gert M. Bp-V-035  
 VON GUNTEN Hanspeter  
    Bp-V-035  
 VOSS Rudiger PA-09  
 W. Lee Hp-III-002  
 W. LEE Hp-III-010  
 WANG Cai-Zhuang  
    DG-40  
 WANG Chaojun Dp-I-069  
 WANG Jianwei Ep-I-023  
 WANG Jianwei Ep-V-092  
 WANG Jun Ep-I-023  
 WANG Zhenxing Dp-III-129

WANNBERG Bj rn Ep-V-079  
WATANABE Gentaro JG-01(초)  
WHITE Andrew Ep-V-125  
WINFREE Erik EG-03  
WON Jun Yeon Jp-III-018,  
Jp-III-019  
WON Mi-Sook Dp-III-157  
WON Soonho Dp-V-184  
WOO Bonghee DG-24  
WOO Bonghee Dp-III-125  
WOO Seungwoo DG-41  
WOO Sungjong DG-19  
WOO Sungjong Ep-I-041  
WOO Y.D. KG-16(초)  
WOOJIN Park EG-23  
WOO-JUNG Lee EG-35  
X. R. Jin Ep-V-073,  
Ep-V-094  
X. R. Jin Ep-V-066  
XUE She-Sheng LS-03  
Y Danon Cp-IV-009  
Y. Danon Cp-IV-010,  
Cp-IV-013  
Y. Ying Ep-V-090  
Y. H. Lu Ep-V-094  
Y. H. Lu Ep-V-066  
Y. P. Lee Ep-V-073,  
Ep-V-086,  
Ep-V-090,  
Ep-V-091,  
Ep-V-094  
Y. P. Lee Ep-V-066,  
Ep-V-093,  
Ep-VI-068  
YABANA Kazuhiro DG-55  
YAKHSHIEV Ulugbek CG-02

YAMADA A KG-16(초)  
YAMADA Shoichi LS-05  
YAMAGUCHI H. CS-12(초)  
YANG Chan Uk DG-08  
YANG Chanuk KG-02  
YANG H. L. Hp-III-005  
YANG Heok Dp-III-121  
YANG Hyoung Woo DG-58  
YANG Hyun Kyoung Ep-I-044,  
Ep-I-046,  
Ep-I-057,  
Ep-V-067,  
Ep-V-069  
YANG Hyun Seok BG-32  
YANG I. K. DG-37(초)  
YANG Il Kyu Dp-I-074  
YANG In-Sang DG-11  
YANG Jee Eun Dp-III-157  
YANG Jeonghwa DG-07  
YANG Jongman Lp-IV-003  
YANG Jongman Lp-IV-007  
YANG Juhee Ip-II-038  
YANG Juhee FG-01  
YANG Sang Mo DG-50  
YANG Sun A Dp-V-178  
YANG Sung-Chul CG-13  
YANG Z. Dp-I-086  
YANOIVCH11 E. Bp-V-021  
YANOVICH E BG-24  
YANOVICH E. BG-25,  
BG-26  
YASUI Shigehiro CG-24(초)  
YAZAKI Koichi CG-24(초)  
YEO Insung Bp-V-019  
YEO Joonhyun Dp-I-078  
YEO Seung Jun Dp-I-032  
YEOM Dong-Sun EG-21

|                  |                         |
|------------------|-------------------------|
| YI H.            | DG-39                   |
| YI Soung Soo     | Ep-I-038,<br>Ep-I-044   |
| YI Soung-Soo     | Ip-II-026               |
| YI Su Do         | FG-05                   |
| YI Yeonjin       | EG-34                   |
| YOO Hyang Keun   | EG-27                   |
| YOO Jaegwon      | CS-11                   |
| YOO Jung Hoon    | Ep-I-063                |
| YOO Kwang-Dong   | EG-33                   |
| YOO Kyung-Hwa    | EF-01(초)                |
| YOO Sangun       | Dp-III-144              |
| YOO Seokwon      | JG-19                   |
| YOO Seung Hwa    | Ep-I-032                |
| YOO Sungmi       | JG-06                   |
| YOO Taehee       | DG-09                   |
| YOO, In-Kwon     | PA-05                   |
| YOOK Soon-Hyung  | Fp-IV-014               |
| YOON Choon Sup   | DG-04                   |
| YOON CHOONGJAE   | CS-14(초)                |
| YOON Chun Sil    | BG-01(초),<br>Bp-V-001   |
| YOON Duhee       | DG-41                   |
| YOON Euijoon     | DG-40                   |
| YOON I. S        | Dp-I-021                |
| YOON Insong      | Dp-I-029                |
| YOON In-song     | Dp-I-025                |
| YOON J. H.       | DG-74                   |
| YOON Jae Hyun    | DG-27                   |
| YOON Jang-Hee    | Dp-III-157,<br>Dp-V-186 |
| YOON Jungbum     | Ep-V-087                |
| YOON Kyung Byung | Ep-I-040                |
| YOON Moon Jee    | DG-50                   |

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| YOON S            | EG-40  |
| YOON Yeojeong     | Jp-III-004   |
| YOON-HWAE Hwang   | FG-08  |
| YOSHIDA Yoshiyuki | DG-72  |
| YOSHIDA Yoshiyuki | Dp-I-055   |
| YOSHIDA Yoshiyuki | DG-35  |
| YOSHIDA Yoshiyuki | Dp-I-068   |
| YOU C.-Y.         | EF-09(초)   |
| YOU Chun-Yeol     | Ep-V-087   |
| YOU Hee-Wook      | Kp-II-039  |
| YOU Sangha        | Kp-II-023  |
| YOUNGHEE Kim      | Jp-III-022   |
| YOUNG-OUK Lee     | Cp-IV-004  |
| YU Chungjong      | HF-06  |
| YU Dai-Hyuk       | CS-10  |
| YU Intae          | PA-01  |
| YU Jaehoon        | Ep-V-125   |
| YU Krylov         | BG-21,<br>BG-22,<br>BG-23,<br>Bp-V-005,<br>Bp-V-018,<br>Bp-V-022 |
| YU Nari           | Ep-I-019   |
| YUASA S           | EF-09(초)   |
| YUE .Q            | Bp-V-024   |
| YUE Q.            | BG-05  |
| YUE q.            | BG-35  |
| YUE, Q.           | Bp-V-023   |
| YUN C.-K          | FG-14  |
| YUN Chong Cheoul  | CG-19  |
| YUN Chong Cheoul  | CS-06  |

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| YUN G. S.      | Hp-III-001                               |
| YUN Hoyeol     | Ep-I-019                                 |
| YUN Hoyeol     | Ep-V-108                                 |
| YUN Ki Nam     | Ep-I-028                                 |
| YUN Kyusik     | Ep-I-026                                 |
| YUN Won Seok   | Dp-III-101,<br>Dp-III-123,<br>Dp-III-161 |
| YUN Young-Duck | Dp-I-027                                 |
| YUNG HO Kahng  | EG-23                                    |
| ZHAO Bum Suk   | JG-02(초)                                 |
| ZHENG H.       | DG-38                                    |
| ZHI Liu        | Ep-V-079                                 |
| ZOU J.         | Kp-III-100                               |
| ZOU Jin        | Kp-II-006,<br>Kp-III-098                 |





## 한국물리학회 회보 제28권 제2호

인 쇄 2010년 10월 13일  
발 행 2010년 10월 20일

발행인 이영백  
사단법인 한국물리학회

발행처 서울특별시 강남구 역삼동 635-4  
Tel. 02-556-4737(대표전화)  
Fax. 02-554-1643  
Homepage: <http://www.kps.or.kr>  
e-mail: [office@kps.or.kr](mailto:office@kps.or.kr)

인쇄인 좋은생각좋은사람들  
경기도 고양시 일산동구 백석동 1324  
동문굿모닝타워2차 806호  
Tel. 031-902-3105~6  
Fax. 031-902-3158

