

# The 11<sup>th</sup> Surface Nano Science Workshop



## ★ Map

Address : 강원도 평창군 봉평면  
태기로 174

TEL : 1588-2828

## ★ Workshop Place



## ★ Contact

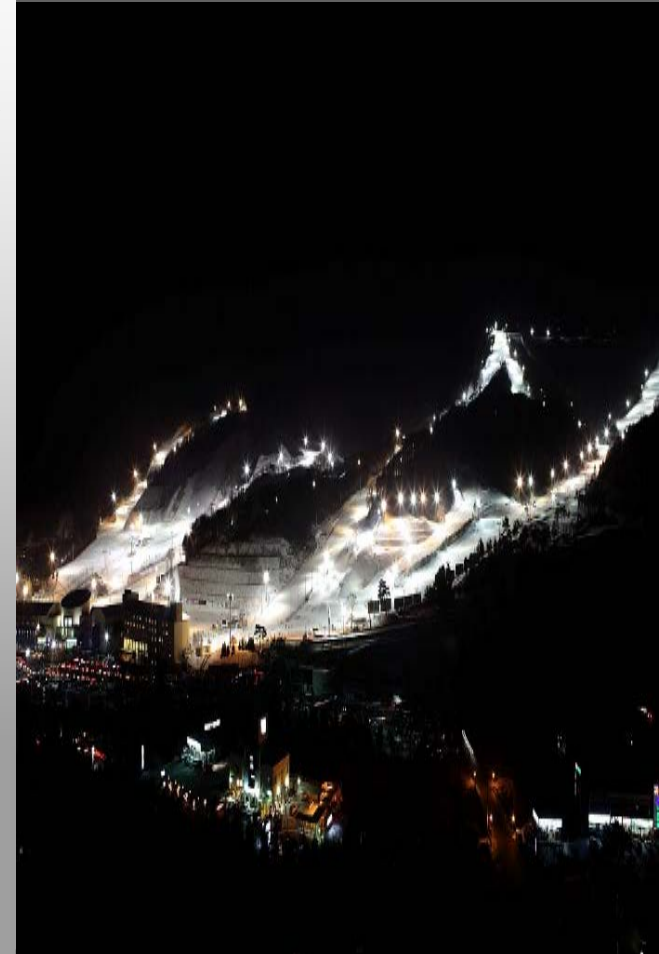
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## ★ Registration

Hotel 2<sup>nd</sup> floor Phoenix Ballroom

|                  |      |
|------------------|------|
| 학생:              | 20만원 |
| 일반A (1인실/가족형콘도): | 40만원 |
| 일반B (2인실):       | 30만원 |

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Feb. 14 ~ 16, 2015 at PHOENIX PARK

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POSTECH

# The 11th Surface Nanoscience Workshop Program

| 2. 14. Sat. (호텔 휘닉스볼룸) |  |   | 2. 15. Sun. (호텔 휘닉스볼룸) |                                 |   | 2. 16. Mon. (호텔 루비) |                                     |  |
|------------------------|--|---|------------------------|---------------------------------|---|---------------------|-------------------------------------|--|
| 13:50~<br>14:00        | Welcome Remark                           |   | 9:00~<br>9:45          | Bohm-Jung Yang<br>(RIKEN)       | Classification of three dimensional Dirac semimetals  | 9:00~<br>9:35       | Seung Ryong Park<br>(Incheon Univ.) | Interlayer-coupling quenching in MoS2 by hydrogen gas treatment                                    |
|                        |  |   | 9:45~<br>10:20         | Suk-Bum Chung<br>(IBS, SNU)     | Majorana zero mode in the perovskite oxide 2DEGs  | 9:35~<br>9:50       | Sung Joon Ahn<br>(SKKU)             | Electronic structure of single-crystal monolayer graphene on hydrogen-terminated germanium surface |
| 14:00~<br>14:45        | Shuji Hasegawa<br>(Univ. of Tokyo)       | Spin-split surface states and electronic/spin transport therein                         | 10:20~<br>10:40        | Coffee Break                    |   | 9:50~<br>10:05      | Doo Hee Cho<br>(IBS, POSTECH)       | Multiple-gap structure of the charge-density wave driven Mott insulator 1T-TaS <sub>2</sub>        |
| 14:45~<br>15:30        | Shengyong Qin<br>(Hefei Nat'l Lab, USTC) | STM/S and transport studies of quantum phenomena at low-dimensions                      | 10:40~<br>11:25        | K. T. Law<br>(HKUST)            | Majorana fermion induced selective equal spin Andreev reflections                                   | 10:05~<br>10:30     | Soo-hyon Phark<br>(SNU, IBS)        | Spin-resolved spectroscopic imaging of a nanoscale magnetic hetero-interface                       |
| 15:30~<br>15:45        | Coffee Break                             |   | 11:25~<br>12:00        | Minchul Lee<br>(Kyunghee Univ.) | Quantum resistor-capacitor circuit with Majorana fermion modes in chiral topological superconductor | 10:30~<br>10:45     | Coffee Break                        |  |
| 15:45~<br>16:30        | Takashi Uchihashi<br>(NIMS)              | Observation and control of superconductivity in silicon surface reconstructions         | 12:00~<br>12:35        | Jungpil Seo<br>(DGIST)          | Signatures of Majorana Fermions in Ferromagnetic Atom Chains on a Superconductor                    | 10:45~<br>11:20     | Yeongkwan Kim<br>(ALS, LBNL)        | Manipulating underlying electronic structure through surface electron doping                       |
| 16:30~<br>17:15        | Sung-Kwan Mo<br>(ALS, LBNL)              | Growth and electronic structure investigation of MoSe <sub>2</sub> and WSe <sub>2</sub> | 12:40~<br>14:00        | Lunch (풍경마루)                    |   | 11:20~<br>11:35     | Jae Whan Park<br>(POSTECH)          | Double-layer model for the hexagonal In/Si(111)-(√7×√3)  |
| 17:20                  | Group photo                              |   | 14:00~<br>18:00        | Ski Time I                      |   | 11:35~<br>11:50     | Sun-Woo Kim<br>(Hanyang Univ.)      | Effects of doping and stress on the phase transition of In/Si(111)                                 |
| 17:20~<br>19:00        | Poster Session (호텔 에메랄드)                 |   | 18:00~<br>19:00        | Dinner (풍경마루)                   |   | 11:50~<br>12:05     | In Kyung Song<br>(IBS, POSTECH)     | Realization of a strained atomic wire superlattice   |
|                        |  |   | 19:30~<br>20:05        | Hyo Won Kim<br>(SAIT)           | Graphene-metal interaction revealed by scanning tunneling microscopy                                | 12:05~<br>12:30     | Se Gap Kwon<br>(POSTECH)            | New structural model for the Au chain on Si(111)-(5×2)   |
|                        |  |   | 20:05~<br>20:40        | Choongyu Hwang<br>(PNU)         | Many-body interactions in graphene studied by ARPES   | 12:30               | Closing Remark                      |  |
| 19:00~<br>21:00        | Banquet (호텔 연회장)                         |   | 20:40~<br>21:15        | Jun Sung Kim<br>(POSTECH)       | Valley-polarized interlayer conduction of anisotropic Dirac fermions in SrMnBi <sub>2</sub>         |                     | Ski Time II                         |  |