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National Tsing Hua University Physicists Published Results in Disparate Disciplines in April 2012 Issues of Physical Review Letters

Hsinchu, June 7, 2012. Four groups of physicists representing disparate disciplines of surface and nanoscience, theoretical elementary particle physics, X-ray diffraction and quantum information from National Tsing Hua University (NTHU,) together with their collaborators in various universities, the National Synchrotron Radiation Research Center and the Academia Sinica in Taiwan, published their research findings in the top physics journal in April issues of 2012, *Physical Review Letters (PRL)*.

The titles, names of authors are as follows:

1. Chan, WY; Huang, HS; Su, WB; Lin, WH; Jeng, HT; Wu, MK; Chang, CS; "Field-Induced Expansion Deformation in Pb Islands on Cu(111): Evidence from Energy Shift of Empty Quantum-Well States," *PHYSICAL REVIEW LETTERS* Volume: 108 Issue: 14 Article Number: 146102, APR 6 2012 [DOI: 10.1103/PhysRevLett.108.146102]
2. Cheung, K; Yuan, TC; "Could the Excess Seen at 124-126 GeV Be due to the Randall-Sundrum Radion?" *PHYSICAL REVIEW LETTERS* Volume: 108 Issue: 14 Article Number: 141602, APR 6 2012. [DOI: 10.1103/PhysRevLett.108.141602]
3. Weng, SC; Lee, YR; Chen, CG; Chu, CH; Soo, YL; Chang, SL; "Direct Observation of Charge Ordering in Magnetite Using Resonant Multiwave X-Ray Diffraction," *PHYSICAL REVIEW LETTERS* Volume: 108 Issue: 14 Article Number: 146404, APR 5 2012 [DOI: 10.1103/PhysRevLett.108.146404]
4. Chen, YH; Lee, MJ; Hung, WL; Chen, YC; Chen, YF and Yu, IA; "Demonstration of the Interaction between Two Stopped Light Pulses,"

According to Dr. Ci-Ling Pan, Tsing-Hua Chair Professor and Chairman of the Physics Department of NTHU, *“the Department is proud that our colleagues, together with their students, post-doctoral fellows and collaborators from other institutions in Taiwan and abroad presented exciting results to the world in four disparate fields of physics in the top physics journal PRL.”*

“One of the four papers reported, authored by Professor Ite Yu and his collaborators on “the interaction between two stopped light pulses” was dubbed as the frozen light switch in the Research Highlight Section of Nature Physics (April 2012), another top science journal,” said Dr. Pan.

“I am very happy to see that four groups of physicists representing vastly different areas of physics research in NTHU have reported such exciting results in PRL,” said Dr. Da Hsuan Feng, Senior Vice President for Global Strategy, Development and Assessment.

“This is particularly exciting because as a physicist, I am well aware of how discriminating PRL is since its establishment in 1958 in publishing important results as a world class journal,” concluded Dr. Feng

About National Tsing Hua University (NTHU)

National Tsing Hua University is a research university with a long and proud tradition. Since the re-establishment in Hsinchu in 1956, the university has been known for her excellent academic programs as well as her spacious verdant campus. NTHU initially began in Taiwan with nuclear sciences studies, and gradually expanded to include general sciences and engineering; in the past twenty years, the social sciences and humanities, life sciences, information sciences, and management sciences were added. Over the last fifty-five years, NTHU has transformed herself into a comprehensive university and is recognized globally in many disciplines. There are thirteen Academia Sinica Academicians on the faculty, and sixteen professors awarded with various National Chair Professorships. Among the fifty thousand alumni, there is one Nobel Laureate Yuan Tseh Lee and twelve Academicians. The university development, with active participation from all staff members, has been built on a transparent and progressive platform, and the campus life is visibly permeated with vitality and enthusiasm, with the eight colleges complementing each other in scholastic endeavors. The per-student funding from the Ministry of Education's "Toward World-Class Universities Project" surpasses all other universities in Taiwan.

