OUT AND ABOUT

A research result on quantum transport of electrons in van der Waals trilayers by Frank Ceballos and colleagues was featured on the front page of NSF.gov, Daily Mail (UK) and a KU news release.

Prof. Hume Feldman was on a three week visit to the Institute for Astronomy at the University of Hawaii in Honolulu in December-January. He gave a talk titled “Funny Thing Happened on the Way to Convergence: The Cosmic Velocity Field.” He also visited the Mauna Kea Observatories on the Big Island of Hawaii.

Ian Lewis gave an invited talk "Higgs Physics in the Singlet Extended Standard Model" at Loopfest XV at the University of Buffalo in August and gave a talk "Fun With Singlets" at the workshop "Understanding the First Results from LHC Run II" at the Mainz Institute for Theoretical Physics in July, and a colloquium at the Math Department "The Higgs Boson as a Probe of New Physics" in December. Also, he gave seminars "New Physics in Double Higgs Production" at Minnesota in December and "Double Scalar Production at the LHC and Beyond" at Fermilab in March.


Michael Murray gave a talk about CMS photon - nucleus results at the Institute for Nuclear Theory in Seattle. The workshop was focussed on using photons produced in very high energy nuclear collisions to study the high energy limit of the strong nuclear force. While in Seattle Professor Murray also visit the Physics Education Group at the University of Washington and got to observe their teaching and interact with their faculty. Professor Murray also attended several workshops preparing for a new Electron Ion Collider at Pacific Northwest National Lab, Argon National Lab and Stony Brook University.

Theory student Gopolang Mohlabeng has accepted a position as a research associate at the high energy theory group at Brookhaven National Laboratory this fall.
Jeong Han Kim, a postdoc in high energy theory group, gave a seminar at the University of Florida in January. His title was "Prospects for measuring the form of the Higgs potential at a future 100 TeV proton-proton collider".

Prof. Kong gave lectures on LHC physics at Harish Chandra Institute (Feb 4-17, 2017). He was invited to 6th grade science class at Ingomar Middle School, Pittsburgh, PA and gave three lectures on "What is the Universe Made of?" (December 22, 2016). He was also invited for a colloquium entitled by "Searches for New Physics at the LHC Run II" at the University of Texas, Arlington, (December 7, 2016).

On January 2 John Ralston presented a talk "How Fundamental are YOUR constants?" at the APS conference on hadronic physics, GHP2017 held in Washington DC. On 15 February 15 he gave an invited talk on "Applied Quantum Tomography" at the workshop "Probing QCD in Photon-Nucleus Interactions at RHIC and LHC" held at the Institute of Nuclear Theory at the University of Washington in Seattle. KU theory graduate student John Martens also attended the meeting.

HONORS AND AWARDS

Graduate student Matt Sullivan received a DOE Office of Science Graduate Student Research Program award. This was a competitive award that provides funding to work with a DOE laboratory scientist. The competition was across all DOE lab disciplines and involved writing a proposal in conjunction with a lab scientist. Matt's proposal was entitled "Baryogenesis at the Large Hadron Collider" and he will be working with Sally Dawson at Brookhaven National Laboratory this August through December.

NEW FUNDING

RECENT PUBLICATIONS


“Identifying a new particle with jet substructures” Sung Hak Lim, Chengcheng Han, Doojin Kim, Minho Kim, Kyoungchul Kong, Myeonghun Park, JHEP 1701 (2017) 027


**Matthew Z. Bellus**, Ming Li, **Samuel D. Lane**, **Frank Ceballos**, Qiannan Cui, Xiao Cheng Zeng, and **Hui Zhao**, Type-I van der Waals heterostructure Formed by MoS2 and ReS2 Monolayers, *Nanoscale Horizons* (Cover Story) 2, 31-36 (2017).

ALUMNI NEWS

**DEPARTMENT NEWSLETTER--CALL FOR ITEMS:** Please send your items to Adrian Melott (melott@ku.edu). It's a lot easier to use them if you make them editor-ready: Group them according to the kind of item. Use plain text or Word. Don't number them. Don't say "I visited the Sheboygan Zoo." Use your name (third person). Etc…. 

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