



2014 Poster List

1.	Magnetic Resonance Force Microscopy <i>Corinne Kingsley, Hoang Nguyen, and Pamela Nasr</i>
2.	Observation of the Valley Hall Effect <i>Kin Fai Mak, Kathryn L. McGill, Prof. Jiwoong Park, and Prof. Paul L. McEuen</i>
3.	A Single-Molecule Approach to ZnO Defect Studies: Single Photons and Single Defects <i>Nicholas Jungwirth, Yun-Yi Pai, Hung-Shen Chang, Evan R. MacQuarrie, and Prof. Gregory Fuchs</i>
4.	Mechanical Spin Control of Nitrogen-Vacancy Centers in Diamond <i>Evan R. MacQuarrie, Tanay A. Gosavi, Nicholas Jungwirth, Austin M. Moehle, Prof. Sunil A. Bhave, and Prof. Gregory Fuchs</i>
5.	Imaging Magnetism Using the Time Resolved Anomalous Nernst Effect (Trane) <i>Jason Bartell, Darryl Ngai, Zhaoqi Leng, and Prof. Gregory Fuchs</i>
6.	Magnetic Behavior of Mosaic Hematite Crystals <i>Abby R. Goldman, Emily Asenath-Smith, and Prof. Lara A. Estroff</i>
7.	The Spin Hall Effect and its Application in Spintronics Devices <i>Chi-Feng Pai, Minh-Hai Nguyen, Carina Belwin, Luis Henrique Vilela Leao, Prof. Daniel C. Ralph, and Prof. Robert A. Buhrman</i>
8.	Reversal Mechanisms in Thin Perpendicular Magnetic Films <i>Grahm E. Rowlands, Praveen G. Gowtham, Prof. Daniel C. Ralph, and Prof. Robert A. Buhrman</i>
9.	Thickness Dependent Magnetoelastic Effects in the Ta/CoFeB/MgO System <i>Praveen Gowtham, Gregory M. Stiehl, Prof. Daniel C. Ralph, and Prof. Robert A. Buhrman</i>
10.	Spin Transfer Torque Generated by the Topological Insulator Bismuth Selenide <i>Alex Mellnik, Joon Sue Lee (Penn State), Anthony Richardella (Penn State), Jennifer L. Grab, Peter J. Mintun, Mark H. Fischer (Weizmann), Abolhassan Vaezi, Prof. Aurelien Manchon (Kaust), Prof. Eun-Ah Kim, Prof. Nitin Samarth (Penn State), and Prof. Daniel C. Ralph</i>

11.	Spin-Transfer Torques in Dual-Gated Bismuth Selenide Topological Insulator Devices <i>Jennifer L. Grab, Alex Mellnik, Anthony Richardella (Penn State), Nitin Samarth (Penn State), and Prof. Daniel C. Ralph</i>
12.	Giant Anomalous Hall Effect in the Non-Collinear Antiferromagnet IrMn₃ <i>Greg M. Stiehl, John T. Heron, Chris T. Nelson, Prof. Robert A. Buhrman, Prof. Darrell G. Schlomn, and Prof. Daniel C. Ralph</i>
13.	Valley Degeneracy Breaking in Monolayer MoSe₂ in Magnetic Fields <i>David MacNeill, Colin Heikes, Kin Fai Mak, Zachary Anderson, Prof. Paul L. McEuen, Prof. Jiwoong Park, and Prof. Daniel C. Ralph</i>
14.	Growth and the Anomalous Hall Effect of Metallic Antiferromagnetic Spin Density Waves <i>John T. Heron, Greg M. Stiehl, Chris T. Nelson, Elliot Padgett, Prof. Robert A. Buhrman, David A. Muller, Prof. Darrell G. Schlomn, and Prof. Daniel C. Ralph</i>
15.	Manipulation of Magnetic Insulators with Spin Torque from the Spin Hall Effect <i>Colin Jermain, Sriharsha Aradhya, Hanjong Paik, John Heron, Prof. Darrell G. Schlomn, Prof. Daniel C. Ralph, Katja Nowack (Stanford), Aaron Rosenberg (Stanford), and Prof. Kathryn Moler (Stanford)</i>
16.	Qubit Computation by Field Gradient Manipulation and ESR Induction-Detection of Spins at 95GHz: Current Plans <i>John Franck, Aharon Blank, Curt Dunnam, Boris Dzikovski, and Prof. Jack Freed</i>
17.	Synergy between Metal Oxide Nanofibers and Carbon Substrates for Rechargeable Lithium-Oxygen Batteries <i>Jun Yin, Jangwoo Kim, and Prof. Yong L. Joo</i>
18.	Highly Loaded Water-Based Electrospun Metal/Ceramic Nanofibers as a Robust Surface-Enhanced Raman Template <i>Jay H. Park, and Prof. Yong L. Joo</i>
19.	Processing-Property Relationships in PAN/Silica Composite Fibers for the Li-Ion Batteries <i>Soshana A. Smith, Jay H. Park, and Prof. Yong L. Joo</i>
20.	Highly-Stable Ternary Si/Graphene Nanoribbons/Carbon Fiber Anodes for Li-Ion Batteries <i>Yong Seok Kim, and Prof. Yong L. Joo</i>
21.	THz Generation in Antiferromagnetic NiO <i>Jared Strait, Parinita Nene, and Prof. Farhan Rana</i>