

LENS/CMP Seminars – 2014

Date	Speaker	Title	Host
January 13	SPRING SEMESTER COMMENCES		
January 17	Open		
January 24	Lane Martin, University of Illinois at Urbana-Champaign	<u>"The Science and Engineering of Functional Complex Oxide Thin Films"</u>	Shixiong Zhang
January 31	Zohar Nussinov, Washington University	<u>"Avoided criticality in metallic glasses"</u>	Gerardo Ortiz
February 7	Zhe-Yu Jeff Ou, IUPUI	<u>"Quantum Metrology with Nonlinear Interferometers"</u>	Gerardo Ortiz and Mike Snow
February 14	Open		
February 21	Aaron Finck, University of Illinois, Urbana-Champaign	<u>"Phase transitions and Majorana bound states in engineered topological superconductors"</u>	Herb Fertig
February 28	Luis Brey, CSIC, Madrid	<u>"Tunneling transport in graphene-hBN monolayer-graphene trilayer structure"</u>	Herb Fertig
March 7	NO MEETING - APS MARCH MEETING		
March 14	Min-Chul Cha, Hanyang University	<u>"Superconductor-Insulator Transition in Disordered Two-Dimensional Systems"</u>	Herb Fertig
March 15-23	SPRING BREAK		
March 28	Nayana Shah, University of Cincinnati	<u>"Transport signatures of Majorana fermions in a one-dimensional topological superconductor connected to leads"</u>	Babak Seradjeh
April 4	Jiunn-Yuan Li, National Chiao Tung University	"Long range ferromagnetic order and charge modulation in the $\text{YBa}_2\text{Ca}_3\text{O}_{7-x}/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ heterostructures"	Chi-Ken Lu
April 11	Chen Yang, Purdue University	<u>"Functional Nanomaterials for Photonic and Biomedical Applications"</u>	Shixiong Zhang
April 18	Vitalij K. Pecharsky, Iowa State University - Ames	<u>"Advanced magnetocaloric effect materials. An overview."</u>	Dave Baxter
April 25	Kai Sun, University of Michigan.	<u>"Topological Kondo insulators and Topological Crystalline Kondo Insulators"</u>	Babak Seradjeh
May 2	Ivar Martin, Argonne National Lab	<u>"Spontaneous Quantum Hall Effect and Fractionalization in Itinerant Chiral Magnets"</u>	Herb Fertig

May 5-9	FINALS WEEK		
August 25	FALL SEMESTER COMMENCES		
August 29	NO SEMINAR SCHEDULED		
September 5	Herb Fertig, IU Physics	"Informal Talk on the $\nu=0$ Quantum Hall Effect in Graphene"	
September 12	Marcel Franz, University of British Columbia	<u>"Self-organized topological state with Majorana fermions"</u>	Babak Seradjeh
Thursday, September 18	Casey Miller, University of South Florida	<u>"Magnetocaloric Effect in Thin Films and Heterostructures"</u>	Herb Fertig
September 26	NO SEMINAR SCHEDULED		
October 3	Gerardo Ortiz, IU Physics	"Many-body characterization of topological superfluids"	
October 10-13	FALL BREAK		
October 17	Mark Dykman, Michigan State University	<u>"Quantum heating and switching via quantum activation in periodically driven systems"</u>	Herb Fertig
October 24	Anatoli Polkovnikov, Boston University	<u>"Emergent non-adiabatic dynamics and geometric response in interacting systems"</u>	Gerardo Ortiz
October 31	Rashid Williams-Garcia, IU Physics	<u>"Phase Transitions in the Brain"</u>	Gerardo Ortiz
November 7	Haidong Zhou, University of Tennessee	<u>"Perturbation effects on magnetic ground states in Yb-pyrochlores"</u>	Shixiong Zhang
Wednesday, November 12	Arijit Kundu, IU Physics	<u>"Topology and Transport in Periodically Driven Systems"</u>	Herb Fertig
November 21	Zhen Li, IU Physics	"Strain Engineering of Topological Crystalline Insulator SnTe Nanowires"	Shixiong Zhang
November 22-December 1	THANKSGIVING BREAK		
December 5	Mostafa Tanhayi Ahari, IU Physics	"Dynamics of Majorana modes in topological superconductors"	Herb Fertig
December 12	Hao Feng, IU Physics	<u>"Thermoresponsive NIPAAm coatings for surface-tunable micro-scaffolds"</u>	Roger Pynn
December 15-19	FINALS WEEK		