

Center for Emergent Superconductivity Junior Workshop

Monday, November 14, 2016

Monday - 11/14

08:00 am – 08:55 am

**Breakfast (Theater Lobby)
(Lecture Hall 2)**

08:55 am – 09:00 am

Peter D. Johnson (Welcome, Introduction)

Chair: Ruidan Zhong(BNL)

09:00 am - 10:00 am

Ivan Bozovic (BNL): “Why is Tc in cuprates so high?”

10:00 am - 10:30 am

Haijie Chen (Northwestern) “Exploration of superconductivity in CDW materials”

10:30 am -11:00 am

Aifeng Wang (BNL): “Critical current density and vortex pinning in tetragonal $\text{FeS}_{1-x}\text{Se}_x(x=0,0.06)$ ”

11:00am - 11:20 am

Coffee break (Theater Lobby)

11:20 am - 11:50 am

Hu Miao (BNL): “Precursor charge density waves in $\text{La}_{1.875}\text{Ba}_{0.125}\text{CuO}_4$ ”

Chair: Peter Sprau(Cornell)

11:50am - 12:30 pm

Alexei Koshelev (ANL): “Optimizing vortex pinning with large-scale simulations”

12:30pm - 01:00 pm

Kok Wee Song (ANL): “Surface nematic order in iron-pnictide”

01:00 pm -02:30 pm

Lunch (Theater Lobby)

02:30pm - 03:00 pm

Serena Eley (LANL): “Universal limit on vortex creep in superconductors”

Chair: Ankita Bhutani(UIUC)

03:00 pm – 03:40pm

Lucas Wagner (UIUC): “How much can we trust quantum simulations anyway?”

03:40 pm – 04:00pm

Coffee break (Theater Lobby)

04:00 pm – 04:30pm

Ali Abdullah Hussain (UIUC): “Marginal Fermi Liquid Scaling in the Normal State of Optimally-doped Bi-2212”

04:30 pm – 05:00pm

Chandan Setty (UIUC): “Non-Fermi liquid behavior from partial nesting in multi-orbital superconductors”

05:00 pm - 05:30pm

Ankita Bhutani (UIUC): “Effect of ionicity on magnetism of K_2MnS_2 ”

05:30 pm – 06:00 pm

Free time to walk/ride to Hilton Garden Inn for Reception

06:00 pm – 08:00 pm

Welcome Reception (Hilton Garden Inn)