STRANGE METALS WORKSHOP, JULY 28-30

Wednesday, July 28, 2021

Chair: Subir Sachdev, Harvard University

10:00 -10:40 Anaëlle Legros, Johns Hopkins University

"**Observation of cyclotron resonance and measurement of the cyclotron mass in $La_{2-x}Sr_xCuO_4$**"

10:40-11:20 Aavishkar Patel, UC Berkeley

"**Many-body energy invariant for *T*-linear resistivity**"

Break 30 mins

11:50-12:30 Dominic Else, MIT

"**Critical drag as the mechanism for resistivity in strange metals**"

12:30-1:10 Rick Greene, UMD

"**Strange metal transport in electron-doped cuprates**"

Break 30 mins

Chair: Philip Phillips, UIUC

1:40-2:20 Peter Abbamonte, UIUC

"**The current situation with plasmons and MFL-like fluctuations in strange metals**"

2:20-3:00 Aharon Kapitulnik, Stanford Univ.

"**Thermal diffusivity above the Mott-Ioffe-Regel limit**"

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Thursday, July 29, 2021

Chair: Johnpierre Paglione, UMD

10:00-10:40 Silke Paschen, TU Vienna

"**Superconductivity in an extreme strange metal**"

10:40-11:20 James Analytis, UC Berkeley

"**Evidence for a delocalization quantum phase transition without symmetry breaking in $CeCoIn_5$**"

Break 30 mins

11:50-12:30 Antoine Georges, Flatiron

"Doped SYK models, skewed Planckian metals and the Seebeck effect"

12:30-1:10 Jake Ayres, Bristol

"Magnetoresistance scaling across p^* in hole-doped cuprates"

Break 30 mins

Chair: Nigel Hussey, Bristol/Radboud

1:40-2:20 Ivan Bozovic, Yale/BNL

"Strange metal behavior in LSCO"

2:20-3:00 Brad Ramshaw, Cornell

"**Isotropic Planckian Scattering in Optimally Doped Cuprates**"

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Friday, July 30, 2021

Chair: Cyril Proust, LNCMI Toulouse,

10:00-10:40 Wei Ku, Shanghai

"**Transport properties of an emergent Bose liquid: bad metal, strange metal, and weak insulator, all in one system**"

10:40-11:20 Erik van Heumen, Amsterdam

"**Disentangling the collective response of Cuprates with optical spectroscopy**"

11:20- 12:00 Pablo Jarillo-Herrero, MIT

"**Strange metal in magic angle graphene**"

Break 30 mins

Chair: Todadri Senthil, MIT

12:30-1:10 Jan Zaanen, Leiden

"Umklapp scattering in local quantum critical metals"

1:10-1:50 Chandra Varma, UCR/Berkeley

"Quantum-critical conductivity on a lattice"

2:00 - 3:00 General Discussion

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