

Correlated electron effects in transition metal compounds, August 13 - 17, 2012

Room 311, Brimacombe Building, 2355 East Mall, Vancouver, BC

Time	Monday, August 13	Time	Tuesday, August 14	Time	Wednesday, August 15	Time	Thursday, August 16	Time	Friday, August 17
10:00 – 12:00	<p><i>General molecule formation</i></p> <p>Daniel Khomskii: Formation of "metallic clusters" in insulating matrix</p> <p>George Sawatzky: Molecule formation in solids (O Octahedra in RENiO3)</p>	10:00 – 13:00	<p><i>Continued discussion on superconductors</i></p> <p>Steve Johnston: STM/STS on the pnictides, a DFT perspective</p> <p>Giorgio Levy: ARPES on LiFeAs and DFT</p> <p>Shun Chi: DFT calculations of As position (magnetic vs non magnetic)</p> <p>Bart Ludbrook: work on MgB2</p>	10:00 – 13:00	<i>Continued discussions</i>		<i>To be announced</i>		<i>To be announced</i>
12:00 – 13:00	Igor Mazin: Quasimolecular electronic structure of Na2IrO3 <u>Hennings 318</u>								
13:00 – 14:00	Lunch break	13:00 – 14:00	Catered lunch	13:00 – 14:00	Lunch break		Lunch break		Lunch break
14:00 – 17:00	<p><i>Continued general and molecule formation discussion</i></p> <p><i>Discussion on superconductors electronic structure etc.</i></p> <p>Ricardo Comin: Iridates ARPES , spin orbit, U, DFT</p> <p>Igor Mazin: S+,+ vs S+- in Fe pnictides</p> <p>Shun Chi and Stephanie Grothe: STM work on LiFeAs (published paper with Yan) and new data (defects and QPI)</p> <p>Ilya Elfimov: Impurities in FeSe (band structure, Fermi surfaces, Lindhard function)</p> <p>Giorgio Levy: Resonant photoemission paper (Co substitution in CaFe2As2)</p>	14:00 – 17:00	<p>Mona Berciu: one and two Fermions in a ferromagnet (Exact Solutions) and relation to Cuprates</p> <p>Anamitra Mukherjee: A continued fraction approach to calculating two particle impurity lattice Green's Functions</p> <p>Daniel Khomskii: Novel states close to Mott transitions</p> <p>George Sawatzky: Atomic polarizabilities and nearest neighbor coulomb interactions (perhaps monolayer of FeSe on STO or Se on STO: ideas for new systems?)</p>	14:00 – 17:00	<i>Continued discussions</i>	14:00 – 15:00	Daniel Khomskii: Spontaneous currents, dipoles and monopoles in frustrated Mott insulators <u>Hennings 318</u>		<i>To be announced</i>
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