



Workshop “Strongly correlated materials – perspectives, challenges and dreams”

25 – 26 February 2020

Program

Tuesday 25 February 2020

10:50 – 11:00	Seminar rooms 1-3	Andrew P. Mackenzie MPI CPfS, Dresden <i>Welcome</i>
11:00 – 11:30		Daniel I. Khomskii Universität zu Köln <i>Jahn-Teller effect and spin-orbit coupling: friends or foes?</i>
11:30 – 12:00		Hidenori Takagi MPI FKF, Stuttgart <i>Spins, charges and orbitals on frustrated lattices in complex vanadates</i>
12:00 – 12:30		Discussion
12:30 – 12:40	Wintergarden	Photo
12:40 – 13:30	Seminar room 5	Lunch break
13:30 – 14:00	Seminar rooms 1-3	Eteri Svanidze MPI CPfS, Dresden <i>Design of new strongly correlated materials</i>
14:00 – 14:30		Antoine Maignan ENSICAEN/CNRS, Caen, France <i>The new $Fe_4A_2O_9$ ($A=Nb$ or Ta) magnetoelectric oxides: peculiar role of divalent iron in the "429"</i>
14:30 – 15:00		Discussion
15:00 – 15:30		Coffee break



15:30 – 16:00	Seminar rooms 1-3	Alannah Hallas University of British Columbia, Vancouver, Canada <i>Metallic and non-metallic duality in the 4d pyrochlore $\text{Lu}_2\text{Rh}_2\text{O}_7$</i>
16:00 – 16:30		Priscila F.S. Rosa Los Alamos National Laboratory, USA <i>Emergent phenomena in novel f-electron materials</i>
16:30 – 17:00		Discussion Departure for dinner
Workshop Dinner		
followed by		<i>Advancing Science through materials development – an open discussion</i>

Wednesday 26 February 2020

9:00 – 9:30	Seminar rooms 1-3	George A. Sawatzky University of British Columbia, Vancouver, Canada <i>The electronic structure of NdNiO_2 as compared to the high T_c cuprates</i>
9:30 – 10:00		Masahiko Isobe MPI FKF, Stuttgart <i>Searching for Exotic Oxides — Using high-pressure synthesis —</i>
10:00 – 10:30		Discussion
10:30 - 11:00		Coffee break
11:00 – 11:30	Seminar rooms 1-3	Philipp Hansmann MPI CPfS, Dresden <i>Dawn of the nickel age? On the continued efforts to design a cuprate analogue</i>
11:30 – 12:00		Maurits W. Haverkort Universität Heidelberg <i>Life-time and coherent excitations of quasi-particles in correlated electron systems</i>
12:00 – 12:30		Discussion



12:30 - 13:30	Seminar room 5	Lunch break
13:30 – 14:00	Seminar rooms 1-3	Zachary Fisk University of California, Irvine, USA <i>The Chemistry of Superconducting Materials: a Physicist's View</i>
14:00 – 14:30		Discussion