

**3^d International Conference of the
GRK 1621
September 9-11, 2019**

Time	Monday, Sept 9
08:30-09:00	Registration
09:00-09:10	Opening
S1: Electronic Correlations in Fe-based SC	
09:10-09:45	Gabriel Kotliar "Theory of the Normal and Superconducting State of the Iron Pnictides and Chalcogenides"
09:45-10:20	Ming Yi "The role of orbital physics in iron chalcogenide superconductors"
10:20-10:55	Andreas Kreisel "Superconducting pairing in iron-based superconductors: Beyond the s_{\pm} theme"
10:55-11:25	Coffee break
S2: Complex order in Fe-based SC	
11:25-12:00	Christoph Meingast "How to manipulate superconducting phases by reducing symmetry"
12:00-12:35	Aliaksei Charnukha "Quantum critical density-wave fluctuations in an optimally doped iron oxypnictide"
12:35-14:00	Lunch
14:00-14:25	Francesco Scaravaggi "Revisiting the phase diagram of $\text{LaFe}_{1-x}\text{Co}_x\text{AsO}$ via single crystals"
14:25-15:00	Nickolas Curro "Probing Electronic Nematicity in Correlated Electron Materials With NMR"
15:00-15:25	Aleena Anna Thomas "Towards the study of uniaxial strain in epitaxial $\text{FeSe}_x\text{Te}_{1-x}$ films"
15:25-15:55	Coffee break

S3: Heavy-Fermions	
15:55-16:30	Silke Bühler-Paschen "Nonmagnetic Weyl-Kondo semimetals"
16:30-16:55	Susanne Schulz "Emerging 2D-ferromagnetism and strong spin-orbit coupling at the surface of valence-fluctuating EuR_2Si_2 "
18:00	Dinner

Time	Tuesday, Sept 10
S4: Sr_2RuO_4 and TRSB Superconductivity	
09:00-09:35	Stuart Brown "Unconventional superconductivity in Sr_2RuO_4 , probed under stressed conditions"
09:35-10:10	Olivier Gingras "The Enigmatic Strontium Ruthenate: Superconducting Symmetries from First-Principles Calculations"
10:10-10:45	Adrian Hillier "Time Reversal Symmetry Breaking in Unconventional Superconductivity"
10:45-11:15	Coffee break
11:15-11:50	Manfred Sigrist "How to manipulate superconducting phases by reducing symmetry"
11:50-12:15	Carsten Timm "Bogoliubov Fermi Surfaces in Multiband Superconductors"
12:15-14:00	Lunch
14:00-14:25	Shrenanda Ghosh "Evidence for split superconducting and time-reversal symmetry breaking transitions in uniaxially stressed Sr_2RuO_4 "
14:25-15:00	Aline Ramires "Phenomenological constraints on the nature of the Sr_2RuO_4 superconducting order parameter"
15:00-15:25	Sebastian Molatta "Spatial modulation of the superconducting order parameter: A microscopic study of the FFLO state in an all-organic superconductor"
16:00-18:00 a steamboat trip	

19:00	Dinner
Time	Wednesday, Sept 11
S5: Unconventional Topology: Weyl Semimetals & Disordered Magnets	
09:00-09:35	Igor Böttcher "Interplay of topology and electron-electron interactions in Rarita-Schwinger-Weyl semimetals "
09:35-10:10	Fabian von Rohr "Chemistry of New Materials with Complex Electronic Properties: The Example of Black Phosphorus and its IV-VI Analogues"
10:10-10:35	Santanu Dey "Destruction of long-range order in non-collinear two-dimensional antiferromagnets by random-bond disorder"
10:35-11:05	Coffee break
S6: New Systems and High-Pressure Studies	
11:05-11:40	Anna Isaeva "Intrinsic magnetic topological insulators MnBi ₂ Te ₄ and MnBi ₄ Te ₇ "
11:40-12:05	Moaz Elghazali "Pressure-Induced superconductivity in PdSe ₂ & PdS ₂ "
12:05-12:30	M. O. Ajeesh "Tuning competing ground states in AFe ₄ X ₂ (A=Lu, Y Zr; X=Si, Ge) using external pressure
12:30-12:55	Sebastian Selter "Magnetic Anisotropy and Low Field Magnetic Phase Diagram of Quasi Two Dimensional Ferromagnet Cr ₂ Ge ₂ Te ₆ "
12:55-14:00	Lunch
14:00-14:10	Closing