



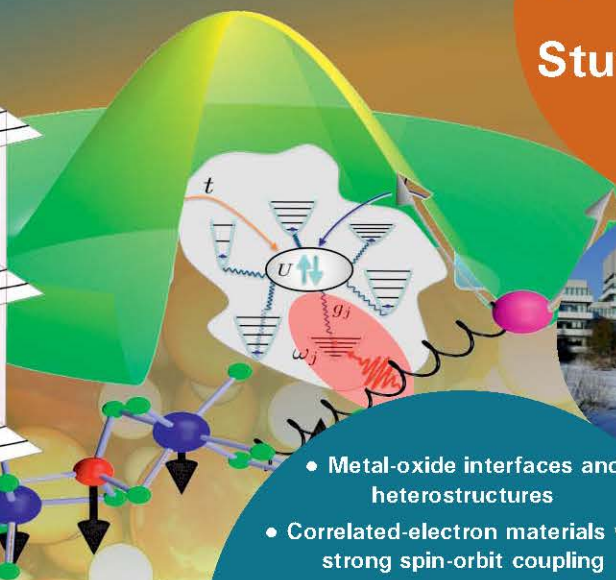
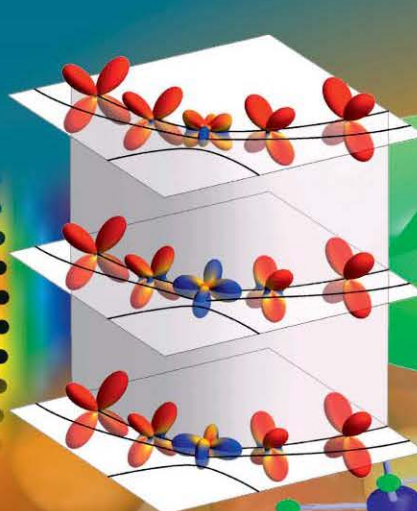
MAX PLANCK – UBC – UTokyo  
CENTRE FOR QUANTUM MATERIALS  
STUTTGART • VANCOUVER • TOKYO



# International Workshop on Frontiers of Research in Quantum Materials

Max Planck Institute for Solid State Research

December  
17<sup>th</sup> – 20<sup>th</sup>  
2017  
Stuttgart  
Germany



- Metal-oxide interfaces and heterostructures
- Correlated-electron materials with strong spin-orbit coupling
- High-temperature superconductivity
- Dynamical control of electron systems
- Topological phenomena in solids
- Spintronic materials and devices
  - Electronic properties of graphene-atom systems
  - Spin liquids
  - QHE

## LOCATION

Max Planck Institute  
for Solid State Research  
Lecture Hall 2D5  
Heisenbergstraße 1  
70569 Stuttgart  
Germany



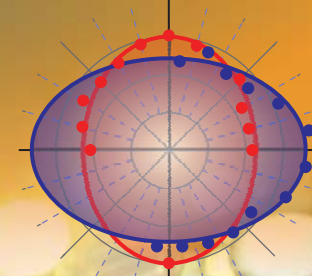
Organizers: Bernhard Keimer, Max Planck Institute for Solid State Research, Stuttgart  
Dirk Manske, Max Planck Institute for Solid State Research, Stuttgart

Registration: Sonja Balkema • Email: office-keimer@fkf.mpg.de



# International Workshop on Frontiers of Research in Quantum Materials

Max Planck Institute for Solid State Research



Monday, December 18<sup>th</sup>, 2017

Tuesday, December 19<sup>th</sup>, 2017

Wednesday, December 20<sup>th</sup>, 2017

	8:00 – 8:25	<b>Registration</b>
	8:25 – 8:30	<b>Bernhard Keimer</b> MPI for Solid State Research
<b>Dynamics I</b>	8:30 – 9:05	<b>Ryo Shimano</b> The University of Tokyo
	9:05 – 9:40	<b>Stefan Kaiser</b> MPI for Solid State Research
	9:40 – 10:15	<b>Benedikt Fauseweh</b> MPI for Solid State Research
	10:15 – 10:45	Coffee break
<b>Dynamics II</b>	10:45 – 11:20	<b>Shik Shin</b> The University of Tokyo
	11:20 – 11:55	<b>David Jones</b> UBC Vancouver
	12:00 – 13:30	Lunch
<b>Nanolectrics</b>	13:30 – 14:05	<b>Masashi Kawasaki</b> The University of Tokyo
	14:05 – 14:40	<b>Jurgen Smet</b> MPI for Solid State Research
	14:40 – 15:15	<b>Alireza Nojeh</b> UBC Vancouver
	15:15 – 15:45	Coffee break
<b>Thin films and surfaces</b>	15:45 – 16:20	<b>Christian Ast</b> MPI for Solid State Research
	16:20 – 16:55	<b>Robert Kiefl</b> UBC Vancouver
	16:55 – 17:10	<b>Ryan Day</b> UBC Vancouver
	17:10 – 17:25	<b>Pascal Nigge</b> UBC Vancouver
	17:25 – 18:15	Talks by UBC intern students
	18:30 – 21:00	Poster Session & Buffet Dinner

<b>Oxides</b>	8:30 – 9:05	<b>Liu Hao Tjeng</b> MPI for Chemical Physics of Solids
	9:05 – 9:40	<b>George A. Sawatzky</b> UBC Vancouver
	9:40 – 10:15	<b>Hiroki Wadati</b> The University of Tokyo
	10:15 – 10:45	Coffee break
<b>Superconductivity</b>	10:45 – 11:20	<b>Jochen Mannhart</b> MPI for Solid State Research
	11:20 – 11:55	<b>Mona Berciu</b> UBC Vancouver
	11:55 – 12:30	<b>Douglas Bonn</b> UBC Vancouver
	12:30 – 14:00	Lunch
<b>Unconventional magnetism</b>	14:00 – 14:35	<b>Eva Benckiser</b> MPI for Solid State Research
	14:35 – 15:10	<b>Andrew McFarlane</b> UBC Vancouver
	15:10 – 15:45	<b>Kentaro Kitagawa</b> The University of Tokyo
	15:45 – 16:15	Coffee break
<b>SOC &amp; Topology I</b>	16:15 – 16:50	<b>Hidenori Takagi</b> MPI for Solid State Research
	16:50 – 17:25	<b>Claudia Felser</b> MPI for Chemical Physics of Solids
	17:25 – 18:05	<b>Masao Ogata</b> The University of Tokyo
	19:00 – 21:00	Conference Dinner and Résumé

<b>SOC &amp; Topology II</b>	8:30 – 9:05	<b>Ian Affleck</b> UBC Vancouver
	9:05 – 9:40	<b>Masaki Oshikawa</b> The University of Tokyo
	9:40 – 10:15	<b>Roderich Moessner</b> MPI for the Physics of Complex Systems
	10:15 – 10:45	Coffee break
<b>Spintronics</b>	10:45 – 11:20	<b>Stuart Parkin</b> MPI of Microstructure Physics
	11:20 – 11:55	<b>Masamitsu Hayashi</b> The University of Tokyo
	11:55 – 12:30	<b>Joshua Folk</b> UBC Vancouver
	12:30 – 14:00	Lunch
	14:00 – 15:00	Meeting of Board Members

## PROGRAM

Lecture Hall 2D5

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