

Workshop outline/location

ELASTIC TUNING AND RESPONSE OF ELECTRONIC ORDER

Workshop December 9th - 11th, 2019
 Schloss Waldthausen, Mainz, Germany

ORGANIZERS:
 Jörg Schmalian (Karlsruhe)
 Jairo Simova (Mainz)
 Roser Valentí (Frankfurt)

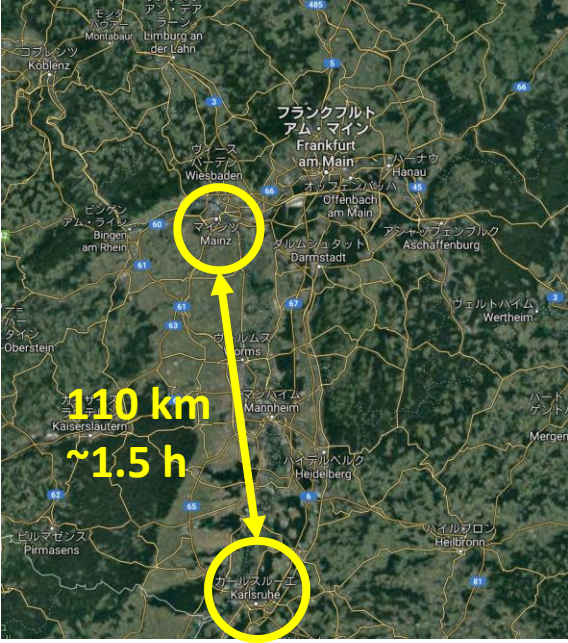
SP/CE

INVITED SPEAKERS:

Anna Köhner (KIT)	Holon Gohary (Mainz)	Michael Lang (Frankfurt)
Colin Strain (Johns Hopkins University)	Clifford Hicks (WPI)	Gil Lonzarich (Cambridge)
Stuart Brown (UCCLA)	Sagar Jha (CISAS)	Abhay Pasupathy (Columbia University)
Bernd Büchner (IPW)	Hosang Kim (Max Planck Institute for Polymer Research)	Wolfgang Weinzierl (KIT)
Rafael Fernandes (University of Minnesota)	Steven Allen Kivelson (Stanford)	Kristin Willa (KIT)
Ian R. Fischer (Stanford)	Kristin Klemm (Frankfurt)	Taner Yildirim (KIT)
Philipp Gegenwart (Augsburg)		

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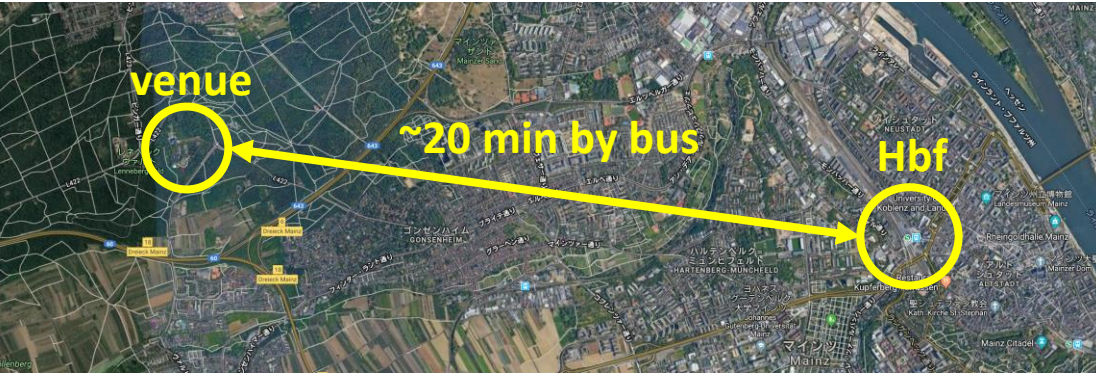
location



Mainz Hbf



Mainz city



Workshop location

Workshop venue

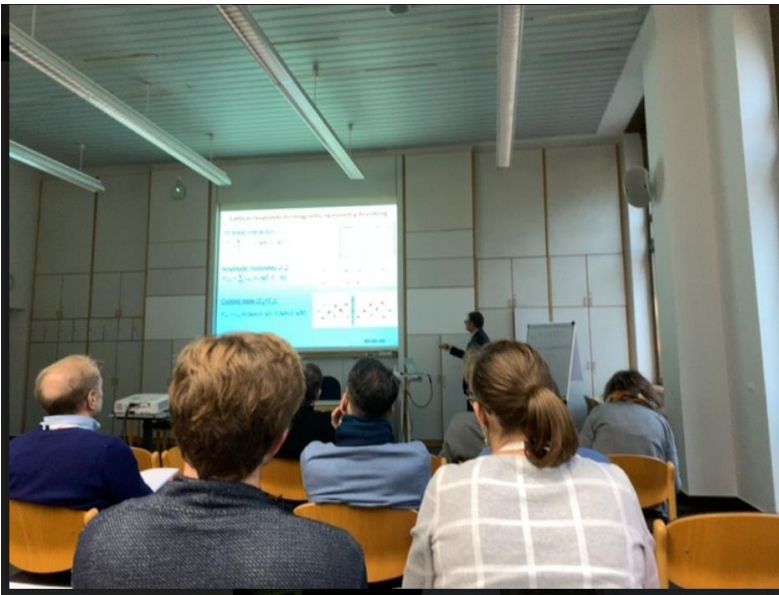


Bus stop



Workshop venue

Main conference room



Poster session room



Workshop schedule

Monday, December 9th

Morning Session Session Topic:

08:30	– Registration
08:50	
08:50	– Opening Remarks
09:00	
09:00	– Ian FISCHER, Stanford University
09:50	<i>Tutorial:</i>
10:00	– Abhay PASUPATHY, Columbia University
10:30	
10:30	– Coffee Break
10:50	
10:50	– Anna BÖHMER, KIT
11:20	<i>Tuning magnetism in iron-based superconductors</i>
11:30	– Bernd BÜCHNER, IFW
12:00	
12:00	– Lunch Break & Poster Session
14:30	

Afternoon Session Session Topic:

14:40	– Elena GATI, IOWA State University
15:10	<i>Effect of hydrostatic pressure and uniaxial stress on the competing phases in iron-based superconductors</i>
15:20	– Suguru HOSOI, Osaka University
15:50	<i>Elastoresistance measurements in nematic superconductors</i>
16:00	– Collin BROHOLM, Johns Hopkins University
16:30	
18:00	– Dinner
19:30	

Tuesday, December 10th

Morning Session Session Topic:

09:00	– Steven Allan KIVELSON, Stanford University
09:50	<i>Tutorial</i>
10:00	– Heejae KIM, Max Planck Institute for Polymer Research
10:30	<i>Nonlinear spectroscopic study of electron-phonon coupling</i>
10:30	– Coffee Break & Poster Session
10:50	
10:50	– Rafael FERNANDES, University of Minnesota
11:20	<i>Contrasting nematicity in rigid lattices and moiré superlattices</i>
11:30	– Kristin KLIEMT, University Frankfurt
12:00	<i>Advanced methods for single crystal growth of Eu- and Yb-based intermetallic systems</i>
12:00	– Lunch Break & Poster Session
14:30	

Afternoon Session Session Topic:

14:30	– Stephen ROWLEY, Cambridge
15:00	<i>Strong electron pairing in ferroelectric superconductors</i>
15:10	– Philipp GEGENWART, University of Augsburg
15:40	<i>Highly anisotropic strain dependence of quadrupolar Kondo systems</i>
15:50	– Wolfgang WERNSDORFER, KIT
16:20	
16:20	– Poster Session
17:30	
18:00	– Dinner
19:30	

Wednesday, December 11th

Morning Session Session Topic:

09:00	– Michael LANG, University of Frankfurt
09:50	<i>Critical elasticity and electronic ferroelectricity close to the Mott transition in (ET)₂X organics</i>
10:00	– Clifford HICKS, MPG
10:30	<i>Superconductors and magnets under uniaxial stress</i>
10:30	– Coffee Break
10:50	
10:50	– Helen GOMONAY, JGU
11:20	<i>Elastic manipulation of antiferromagnetic domain structure</i>
11:30	– Kristin WILLA, KIT
12:00	<i>Evidence for nematic superconductivity in the superconducting doped topological insulators NbxBi2Se3 and SrxBi2Se3</i>
12:00	– Lunch
14:30	

Afternoon Session Session Topic:

14:30	– Stuart BROWN, UCLA
15:00	
15:10	– Taner YILDIRIM, NIST
15:40	<i>Pressure and Strain Control of Crystal Symmetry, Fermi Surface Reconstruction and Superconductivity in Weyl semimetal MoTe2</i>
15:50	– Closing Remarks
16:00	