Program: Online retreat 27 – 28 October 2020

Tuesday, 27 October 2020

09:00 – 09:05	(5)		Welcome words
09:05 – 09:30	(25)		Introduction of participants
Chair: Roser Valentí			
09:30 – 09:50	(10+10)	A01	Strong electron-lattice coupling in correlated intermetallic compounds near valence- and structural instabilities
09:50 – 10:10	(10+10)	A02	Uniaxial- and biaxial-strain-induced phase switching of itinerant AT_2X_2-type antiferromagnets
10:10 – 10:30	(10+10)	A03	Single crystal growth of correlated intermetallic compounds with strong electron-lattice coupling
10:30 – 10:50	(20)		Break
Chair: Jairo Sinova			
10:50 – 11:10	(10+10)	A04	Strain effects in thin films of correlated intermetallic compounds
11:10 – 11:30	(10+10)	A05	Interplay of lattice, charge and spin degrees of freedom from first principles
11:30 – 11:50	(10+10)	A06	Elastic effects in strongly correlated molecule-based systems with geometrical frustration
11:50 – 12:10	(10+10)	A07	Theoretical approaches to electron-phonon coupling in strongly correlated systems
12:10 – 12:30	(10+10)	A08	NV-center spectroscopy for strain sensing of non-collinear antiferromagnets
12:30 – 14:00	(90)		Lunch break
Chair: Jörg Schmalian			
14:00 – 14:20	(10+10)	A09	Control of relativistic magneto-elastoresistivity by electron-lattice and spin-orbit coupling
14:20 – 14:40	(10+10)	A10	Uniaxial stress-strain relationship of electronic materials in the non-linear regime
14:40 – 15:00	(10+10)	A11	Quantum materials with strong elastic coupling: critical elasticity, crystal grains and surfaces
15:00 – 15:30	(30)		Break
15:30 – 17:00	(90)		*Chat rooms* with focus specified in the morning sessions

Wednesday, 28 October 2020

Chair: Kira Riedl			
08:45 – 09:30	(45)	Z	Equal opportunities, international relations and young researchers
Chair: Anna Böhmer			
09:30 – 09:50	(10+10)	B01	Dynamics and noise of disordered strain-coupled electronic order
09:50 – 10:10	(10+10)	B02	Interplay of slow charge carrier dynamics and elastic effects in correlated multi-phase systems via noise spectroscopy
10:10 – 10:30	(10+10)	B03	Elastic Tuning of competing orders in correlated superconductors
10:30 – 10:50	(20)	Break	
Chair: Michael Lang			
10:50 – 11:10	(10+10)	B04	Momentum microscopy of strongly correlated systems under strain
11:10 – 11:30	(10+10)	B05	Correlations and relativistic effects in elastic tunable electronic systems
11:30 – 11:50	(10+10)	B06	Static and dynamic coupling of lattice and electronic degrees of freedom in magnetically ordered transition metal dichalcogenides
11:50 – 12:10	(10+10)	B07	Phonon-driven control of electronic properties in hybrid perovskites and organic charge-transfer salts
12:10 – 12:30	(10+10)	B08	Manipulation of broken-symmetry ground states by transient lattice distortions
12:30 – 12:50	(10+10)	possible B09N	Dynamics of strongly coupled electron-phonon systems
12:50 – 14:20	(90)		Lunch break
14:20 – 15:55	(95)		*Chat rooms* with focus specified in the morning sessions
15:55 – 16:00	(5)		Concluding remarks