

Day 1 – October 20 2016

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09:00 - 09:10	G. Kresse	p01	Welcome Words
09:10 - 09:40	T. Schäfer	p02	Quartic scaling MP2 for periodic systems
09:40 - 10:10	M. Wolloch	p09	Impact of lattice dynamics on the phase stability of metamagnetic FeRh: Bulk and thin films
10:10 - 10:40			Coffee Break
10:40 - 11:20	A. de Vita	guest	Materials Chemomechanics by Inference-Boosted First Principles Modelling
11:20 - 12:00	S. de Gironcoli	guest	Teaching new tricks to an old dog
12:00 - 13:30			Lunch Break@Pizza Riva
13:30 - 14:10	R. Valenti	guest	Challenges in designing correlated materials with topological phases
14:10 - 14:40	A. Tröster	p07	Landau theory meets DFT: the tetragonal-to-cubic high pressure phase transition of lead titanate
14:40 - 15:20	E. Locatelli	p14	Star - long chain mixtures: a novel coarse-graining approach
15:20 - 15:50			Coffee Break
15:50 - 16:20	A. Pasquarello	guest	TBA
16:20 - 16:50	F. Lackner	p05	Time-dependent two-particle reduced density matrix theory: Application to high-harmonic generation
17:00 - 18:00			General Meeting (members only)
18:30 -			Dinner @Aera

Day 2 – October 21 2016

09:00 - 09:30	M. Sorantin	p03	Towards "Mott solar cells": Impact ionisation processes in the periodic steady state of a driven Hubbard chain
09:30 - 10:00	D. Bauernfeind	p04	Fork Tensor Product States - Efficient Three Orbital Real Time DMFT Solver
10:00 - 10:30	D. Suess	p12	Interaction of Spintransport and Magnetization Dynamics
10:30 - 11:00	ТВА	p06	ТВА
11:00 - 11:30			Coffee Break
11:30 - 12:00	G. Menzl	p13	Cavitation in water under tension
12:00 - 12:30	Th. Schäfer	p15	The physics underlying electronic spectra: from parquet decomposition to fluctuation diagnostics
12:30 - 13:00	G. Li	p16	High-frequency asymptotics of the vertex function: diagrammatic parametrization and algorithmic implementation



Venue

All lectures take place at the "Sky Lounge" at the Faculty of Mathematics, (Oskar-Morgenstern-Platz 1, 1090 Vienna, Google Maps). The Sky Lounge is on the 12th floor. The lecture hall is well equipped with a beamer (VGA & HDMI) and a laptop that can be used. Make sure you bring your adapters/flashdrive. WLAN access via *eduroam* (you can also ask Katharina Simma for a temporary ID).

Registration

When you arrive at the location, please pick up your ID badge and sign in with Katharina Simma before entering the lecture hall. Keep your ID badge clearly visible at all times (especially during the coffee-breaks and during the meals). Finally, please do not forget to return your ID badge before you leave. Thank you in advance.

Lunch

The Lunch on Thursday will take place in the *Pizza Riva* (Schlickgasse 2, 1090 Wien, <u>Google Maps</u>), We made a reservation for all participants. Please wear your ID badge visibly.

Dinner

The dinner on Thursday will take place in the <u>Aera</u> (Gonzagagasse 11 / Ecke Werdertorgasse, 1010 Wien, <u>Google Maps</u>).

Accommodation

Our guests are accommodated at *Hotel Boltzmann* (<u>www.hotelboltzmann.at/</u>, Boltzmanngasse 8, 1090 Wien, <u>Google Maps</u>)

