Day 1 – October 20 2016

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: Parallelization strategies for Quantum ESPRESSO*
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	*Electronic Energy Levels in Liquid Water*
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	H.P. Stimming	p06	*Non-local NLS of derivative type for modeling highly nonlocal optical nonlinearities*
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*