Contribution submission to the conference Berlin 2015

Temperature dependent properties in the infinite-dimensional Hubbard model with a magnetic field — •Markus Dutschke[1], Liviu Chioncel[1,2], and Junya Otsuki[3] — [1]Theoretical Physics III, Center for Electronic Correlations and Magnetism, Institute of Physics, University of Augsburg, D-86135 Augsburg, Germany — [2]Augsburg Center for Innovative Technologies, University of Augsburg, D-86135 Augsburg, Germany — [3]Department of Physics, Tohoku University, Sendai 980-8578, Japan

We investigate the temperature and field dependence of the spectral function, the effective mass enhancement and the magnetisation of the infinite-dimensional Hubbard model in a magnetic field. We compare results for different interaction strengths at half-filling, near half-filling and quarter-filling. These are achieved by using dynamical mean-field theory (DMFT) with a continuous-time quantum monte carlo (CT-QMC) impurity solver and are compared with some NRG results.

Part:	**TT**
Type:	**Poster**
Topic:	**Correlated Electrons: Quantum Impurities, Kondo Physics**
Email:	**markus.dutschke@physik.uni-augsburg.de**