



TRR 80 Sonderseminar

Am Freitag, den 26. Oktober um 14:00 Uhr

spricht

Prof. Dr. Martin Eckstein

**Max-Planck Department for Structural Dynamics at the University of
Hamburg, Center for Free-Electron Laser Science**

über das Thema

Nonthermal broken symmetry states in the strongly interacting Hubbard model

Strong sudden perturbations of the antiferromagnetic phase of the Hubbard model, e.g., by means of interaction quenches or photo-excitation, can induce a melting of the long-range order (LRO). However, even when the excitation density exceeds the energy that would be needed to heat the system above the Neel temperature, LRO can survive for very long times. In the talk I discuss the nature of these long-lived nonthermal symmetry broken states for weak [1] and strong interaction [2], as well as the crossover to the excitation regime in which LRO disappears already on fast timescales.

[1] N. Tsuji, M. Eckstein, Ph. Werner, arXiv:1210.0133.

[2] Ph. Werner, N. Tsuji and M. Eckstein, arXiv:1208.0743.

Gäste sind herzlich willkommen.

Der Vortrag findet im Seminarraum S-439 / Institut für Physik, Universität Augsburg statt.

Gastgeber: Dr. Marcus Kollar
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