

Fachbereich Physik Institut für Theoretische Physik

CONDENSED MATTER THEORY SEMINAR

Subject:Dynamics of the Fermi-Hubbard modelSpeaker:Prof. Dr. Ralf Schützhold (Direktor Institut für Theoretische Physik, Helmholtz-
Zentrum Dresden-Rossendorf (HZDR))Date & time:Friday, 12thth of January 2024 at 3:15 p.m.Venue:Room 01.114

Abstract:

Understanding strongly interacting quantum many-body systems -- in particular out of equilibrium -- is one of the major challenges of contemporary physics. As the "drosophila" of such systems, we study the Fermi-Hubbard model. Via the hierarchy of correlations (supplemented by other ethods), we discuss the creation, propagation and effective interaction of the associated quasi-particles in the form of doublons and holons.