

Fachbereich Physik Institut für Theoretische Physik

SPECIAL CONDENSED MATTER THEORY SEMINAR

Subject:	Quantum transport and polaron formation in electron-phonon-coupled heterojunctions
Speaker:	Christian Bick (ITP, Leibniz Universität Hannover)
Date & time:	Thursday, November 7 th , 2019 at 2:00 p.m.
Venue:	Seminar room 1.101

In this talk a one dimensional lattice with possible phonon interactions, as described in the Holstein model, is being discussed with respect to electronic transport. This method is using the time-evolving block decimation algorithm (TEBD) with local basis optimisation. The talk will introduce the TEBD algorithm, show its technical limitations and present the results of the investigation.