

IRTG-Seminar



John Sous

University of British Columbia, Vancouver

"A self-trapping transition for Peierls bipolarons"

A Polaron is a particle in a cloud of phonons. Bipolarons are bound states of two particles in a phonon cloud. Here, we present results for Peierls bipolarons. We find that phonon-mediated effects are non-trivial. In presence of strong bare interactions, the ground state has a rich phase diagram exhibiting non-analytic transitions, one of which is a quasi self-trapping transition.

UNI FREIBURG

Tuesday, October ^{25th}, 2016, 6:00 p.m., Room 023, University Computing Center, Hermann-Herder-Straße 10

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