Dynamics of the strongly coupled polaron

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Host: Robert Seiringer

We study the time evolution of the strongly coupled polaron described by the Fröhlich Hamiltonian with large coupling constant α. We show that the time evolution of a particular class of Pekar product states is well approximated by the Landau-Pekar equations for times short compared to α^2. This is achieved by proving an adiabatic theorem for the Landau-Pekar equations. This is jointwork with Nikolai Leopold, Benjamin Schlein and Robert Seiringer.

Thursday, October 17, 2019 at 4 pm
Heinzel Seminar Room / Office Building West

This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage (note that the IST Shuttle times are highlighted in dark green):
https://ist.ac.at/wp-content/uploads/2019/03/IST_Shuttle_Bus_timetable.pdf
The IST Shuttle bus is marked IST Shuttle and has the Institute Logo printed on the side.