

Seminario SMFI

Prof. Andrey Kolovsky

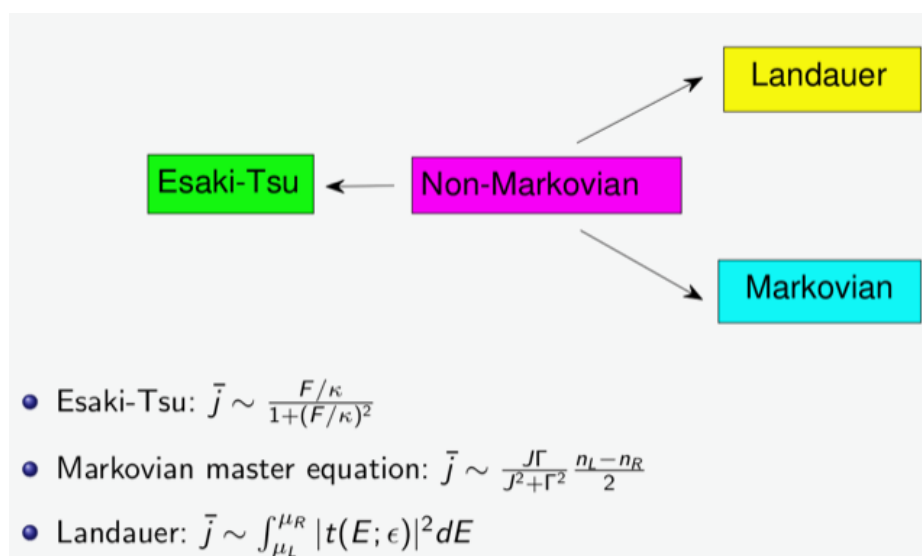
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terrà un seminario dal titolo

Two-terminal transport in biased lattices: transition from ballistic to diffusive current

Abstract:

We address quantum transport of non-interacting fermionic particle in the tight-binding chain which connects two particle reservoirs (the leads or contacts) with different chemical potentials. We unify within framework of the single model three different approaches for calculating the stationary current across the chain: Landauer's theory, the Esaki-Tsu theory for biased lattices, and Markovian master equation for the carriers' density matrix.



26/3/2025, ore 15:00, Aula Boltzmann (plesso fisica)