
Thermoelectric transport through quantum dot-quantum point contact systems

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Abstract

We show that thermo-electric transport through some Quantum Dot - single-mode Quantum Point Contact systems depends on the backscattering amplitude difference of the two "charge" Kondo channels. The appearance of new energy scales depending on this (these) difference(s) controls the crossover from Non-Fermi-liquid two-channel Kondo regime to Fermi-liquid single-channel Kondo one. We discuss windows of parameters for observation of NFL effects.

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