

Abstract Submitted
for the MAR06 Meeting of
The American Physical Society

Non-equilibrium conductance of a three-terminal quantum dot in the Kondo regime: Perturbative Renormalization Group NAYANA SHAH, ACHIM ROSCH, University of Cologne — Motivated by recent experiments, we consider a single-electron transistor in the Kondo regime which is coupled to three leads in the presence of large bias voltages. Such a steady-state non-equilibrium system is to a large extent governed by a decoherence rate induced by the current through the dot. As the two-terminal conductance turns out to be rather insensitive to the decoherence rate, we study the conductance in a three-terminal device using perturbative renormalization group and calculate the characteristic splitting of the Kondo resonance. The interplay between potential biases and anisotropy in coupling to the three leads determines the decoherence rate and the conditions for strong coupling.

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Date submitted: 27 Nov 2005

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