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**Functional RG for the Single Impurity Anderson Model** MICHAEL KINZA, RWTH Aachen University, CARSTEN HONERKAMP, RWTH Aachen University, JUTTA ORTLOFF, Wuerzburg University — We present a functional Renormalization Group (fRG) approach to the Single Impurity Anderson Model at finite temperatures. Starting with the exact spectral function and interaction vertex of a small system (“core”) containing a correlated site, we switch on the hybridization with a non-interacting bath in the RG-flow and calculate spectra of the correlated site. Different truncations of the RG-flow-equations and choices of the core are compared and discussed. Furthermore we calculate the linear conductance as function of temperature and interaction strength.

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