## Abstract Submitted for the MAR16 Meeting of The American Physical Society

Exact Real-time Dynamics with non-equilibrium QMC QIAOYUAN DONG, ANDREY ANTIPOV, EMANUEL GULL, University of Michigan — We present an overview of recent methodological progress for non-equilibrium hybridization expansion diagrammatic Monte Carlo impurity solver and we examine the real-time dynamics of a correlated quantum dot in the mixed valence regime. We perform numerically exact calculations of currents and magnetic susceptibilities after a quantum quench from equilibrium by rapidly applying a bias voltage in a wide range of initial temperatures. We observe Kondo signatures both in transient regimes and in the steady state.

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