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Dynamical Mean-Field calculation of kinetic energy for the one-band doped Hubbard Model[1] ARMIN B. COMANAC, Columbia University Department of Physics, NY 10027 USA, LUCA DE' MEDICI, École Polytechnique - CPHT, F91128 PALAISEAU CEDEX FRANCE, ANDREW J. MILLIS, Columbia University Department of Physics, NY 10027 USA — We present a Dynamical Mean-Field calculation of the interaction, doping and temperature dependence of the kinetic energy for the one-band doped Hubbard model. We combine Quantum Monte-Carlo and an improved finite temperature Exact Diagonalization method to obtain results over a wide range of temperatures. The overlapping temperature region for the two methods enables an improved error estimation. The results are compared to recent experimental data.

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