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Nonequilibrium dynamics of
electron-phonon coupled systems

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I will explain a formalism which allows to simulate the time-evolution of the Holstein-Hubbard model within the framework of dynamical mean field theory. The system may be driven out of equilibrium by parameter quenches or by the application of electric fields. I will illustrate the method with simulations of the photo-doping and dielectric breakdown of a Mott insulator with strong electron-phonon coupling. The phonons lead to a rapid cooling of the field-excited carriers and to a reconstruction of the spectral function in the gap region.

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