

Abstract Submitted
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Weakly interacting bosons in a periodic optical lattice¹ QINQIN
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We study an interacting boson gas in a periodic optical potential, with the goal of
understanding the properties of such a gas away from the Mott insulating regime at
large optical lattice depth. In particular, we analyze the density dependence of the
transition temperature as a function of optical lattice depth and the response to a
dynamical modulation of the optical lattice.

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