

Abstract Submitted  
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**Ultra cold atoms in a Time-Modulated One-Dimensional Optical Lattice Plus Harmonic Potential** SAADET BURGU, CEM YÜCE — We study the quantum dynamics in a time-modulated one-dimensional optical lattice plus a parabolic potential using the tight-binding approximation. We solve the dynamic equation describing the atomic motion. We report dynamic localization of a Bose-Einstein condensate in a shaken optical lattice.

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