

Abstract Submitted
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Emission spectrum of atoms in a harmonic trap POOJA SINGH,
YURI ROSTOVTSEV, University of North Texas — We consider an excited atom
in a harmonic trap. The evolution of quantum atomic states is theoretically studied
under adiabatic approximation. The emission spectra for trapped atoms are calcu-
lated. We have show interference effects as well as trapping effect in a trap that has
a size larger than the wavelength of radiation.

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