Abstract Submitted
for the TSS16 Meeting of
The American Physical Society

Manipulation of the spontaneous emission of atoms trapped in a harmonic trap ALEXANDER ANDKERSON, YURI ROSTOVTSEV, Department of Physics, University of North Texas — We consider an atom trapped in a harmonic trap. The evolution of excited atomic states is theoretically studied under adiabatic approximation. The emission spectra for trapped atoms are calculated. We have shown interference effects as well as trapping effect in a trap that has a size larger than the wavelength of radiation.

Yuri Rostovtsev
Department of Physics, University of North Texas

Date submitted: 26 Feb 2016 Electronic form version 1.4