

Abstract Submitted
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Laser Cooling by Stimulated Emission ROBINJEET SINGH,
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pore, PETR ANISIMOV, Los Alamos National Laboratory, HAROLD METCALF,
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We present a laser cooling schemes based on the stimulated emission of the two level
atoms, by the bichromatic field. The improved efficiency of the scheme is suggested
by the Carnot-like thermal cycle. The controllability of the stimulated and the cool-
ing of the internal degrees of freedom of the atom are the strong candidates for
enabling us to expand the scheme to more complex atoms as well as the molecules.

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