

laser cooling and trapping pdf

Laser cooling refers to a number of techniques in which atomic and molecular samples are cooled down to near absolute zero. ... In later proposals, laser trapping, a variant of cooling which requires both scattering and a dipole force, would be introduced. In the late 70s, ... Pdf; Cohen-Tanoudji, Claude (2011).

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Laser cooling and trapping of neutral atoms* William D. Phillips National Institute of Standards and Technology, Physics Laboratory, Atomic Physics Division, Gaithersburg, Maryland 20899 [S0034-6861(98)00603-5] INTRODUCTION In 1978, while I was a postdoctoral fellow at MIT, I read a paper by Art Ashkin (1978) in which he de-

Laser cooling and trapping of neutral atoms

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Cooling an atomic beam with a fixed frequency laser The dotted curve is the velocity distribution before cooling, and the solid curve is after cooling. Atoms from a narrow velocity range are transferred to a slightly narrower range centered on a lower velocity. before cooling after cooling Zeeman slower

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Laser cooling and trapping of neutral atoms is a rapidly maturing and yet still expanding area of physics

research that has seen dramatic new developments over the two decades. These include the

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