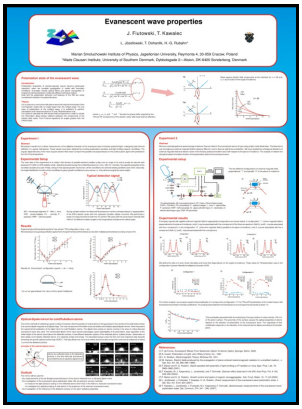
Forces exerted on atoms by a resonant electromagnetic evanescent wave

University of Birmingham - [PDF] Mie scattering and optical forces from evanescent fields: a complex



Description: -
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Notes: Thesis (Ph.D.) - University of Birmingham, Dept of Physics.
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Pseudomomentum transfer from evanescent waves to atoms measured by saturated absorption spectroscopy

Maier, Plasmonics: Fundamentals and Applications New York: Springer, 2007. Cleveland, OH: American Institute of Aeronautics and Astronautics.

OSA

Attempts to unify all forces into one come under the rubric of Grand Unified Theories GUTs , with which there has been some success in recent years. The solid curve is a Monte-Carlo simulation of the reflection.

An electromagnetic mirror for neutral atoms

We recommend using a citation tool such as. The spin momentum is added to the canonical or orbital momentum density, resulting in ,,,,,: Equations 3 and 4 are fundamental and hold true for various particles.

Woodward effect

After a variable storage time in the CAT, atoms were retrapped into the MOT and a fluorescence image was taken with a CCD camera. The two sites allow simultaneous measurements of these small effects to be separated from other natural phenomena, such as earthquakes.

Woodward effect

A simple theoretical description is provided to account for any saturation parameter in the interaction of an atom and evanescent field. Methods of digital video microscopy for colloidal studies. This new technology could rival the conventional fluorescence-activated cell sorting.

An electromagnetic mirror for neutral atoms

What is the ratio of the strength of the strong nuclear force to that of the electromagnetic force? As we will see, the basic forces are all thought to act through the exchange of microscopic carrier particles, and the characteristics of the basic forces are determined by the types of particles exchanged.

Evanescent wave mirror for cold atoms—A quasi

While earlier version of fiber-based laser traps exclusively used single mode beams, M. After the tapering process is complete the flame is removed and the tapered fiber mounted on a custom-made microscope slide containing a 300 mm deep slot. College Park, Maryland: published October 15, 1970.

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