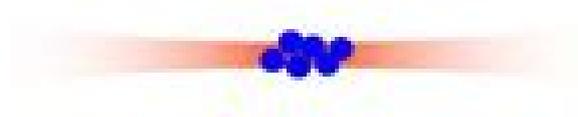


# Trapping neutral atoms



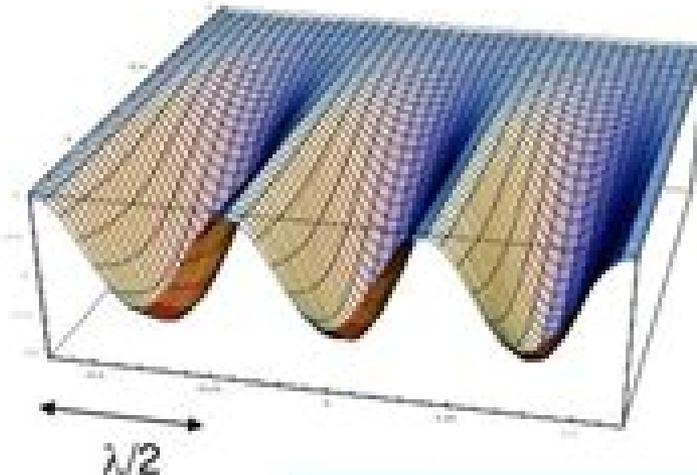
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Trapping : dipole force  
(intense laser)

Confinement : standing wave

=



**Optical lattice  
clocks**

Trap shifts

$\Delta > 10^{-10}$

reaching  $10^{-18}$ , effect must be controlled to within  $10^{-8}$

# Trapping Of Neutral Atoms

**James Jespersen, Jane Fitz-Randolph**



## Trapping Of Neutral Atoms:

Laser Cooling and Trapping of Neutral Atoms W. D. Phillips, NATIONAL BUREAU OF STANDARDS GAITHERSBURG MD ELECTRICITY DIV., 1984 Using laser cooling techniques we have produced a sample of stopped atoms with sufficiently large density and small velocity width to be useful for loading neutral atom traps Author *Trapping of Neutral Atoms* Nathan Newbury, Carl Edwin Wieman, 1998 Cooling and Trapping of Neutral Atoms Harold J. Metcalf, 1991 *Cooling and Trapping of Neutral Atoms* Harold Metcalf, 1994 **Magnetic Trapping of Neutral Atoms** Vanderlei Bagnato, Gregory Lafyatis, Alexander Martin, Eric Raab, Riyadh Ahman-Bitar, MASSACHUSETTS INST OF TECH CAMBRIDGE RESEARCH LAB OF ELECTRONICS., 1987 The program is to slow trap and cool neutral atoms Laser light is used to slow and cool atoms and magnetic forces are used to trap them Ultimately we hope to be able to trap atoms for days and cool them to temperatures on the order of 000001 K in addition to the interesting scientific and technical challenges involved in trapping and cooling atoms we hope to open several new lines of investigation with these cooled atoms Cold trapped atoms constitute a good system for studying collective phenomena such as Bose condensation low energy Na and Na Na and coherent optical effects the deBroglie wavelength can exceed the optical wavelength They also offer opportunities for performing ultra high resolution spectroscopy and are extremely promising candidates for a new generation of frequency standards Traps for Neutral Atoms David Pritchard, MASSACHUSETTS INST OF TECH CAMBRIDGE RESEARCH LAB OF ELECTRONICS., 1989 We have demonstrated two atom traps one magnetic and one using light forces In each case ours was the second trap of that type embodying significant new conceptual contributions which permitted tremendous advances over the previous trap of that type in each case by about 100000 in number trapped and 100 in time trapped Both of our designs have been used without improvement by other groups Meanwhile only one new trap has been demonstrated a light trap which performed less well than ours This suggest that major advances in atom traps will no longer appear with regularity JHD **AC Electric Trapping of Neutral Atoms** Sophie Schlunk, 2008 **Cooling and trapping of neutral atoms** Harold J. Metcalf, Peter van der Straten, 1994 **Nano-optical Traps for Neutral Atoms** Brian Miller Murphy, 2008 We present the theoretical basis for a novel nano optical trap for neutral atoms The trap utilizes plasmonic resonances of metallic nanoparticles to shape laser light fields in a subwavelength region The combination of the laser field and auxiliary electrostatic fields provides a trapping potential for atoms Blue detuned from atomic resonance the plasmon enhanced laser field strongly damps atomic motion A new method to efficiently calculate electric fields surrounding nanospheres is used to study the interaction between light and metallic nanostructures Theory and calculations for the modification of atomic properties such as excited state decay rates and energy levels due to the proximity of the nanostructure are presented The interaction between atoms and light fields including optical force damping and momentum diffusion are studied in detail These interactions are synthesized to design an atomic nanotrap whose properties including trapping potential lifetime and loading

rates are further analyzed *A Laser Trap for Neutral Atoms* William C. Stwalley, IOWA UNIV IOWA CITY., 1988 The purpose of this project is to construct and study a laser trap for neutral atoms initially potassium K At low densities such a trap could be used to address a number of fundamental questions e.g. the interaction of an individual atom with an electromagnetic field collision dynamics and recombination We have studied the feasibility and imitations of a purely laser trap concept a corner cube trap for trapping neutral K atoms The confinement of the atoms in the two dimensions perpendicular to the laser is provided in the cavity of a newly constructed high power alexandrite laser operating in the CW TEM 01 mode doughnut mode tuned slightly to the blue side of the resonance line of the K atom By reflecting the TEM 01 laser back on itself with two mirrors one caps the ends of the cylindrical trap resulting in a slightly weaker end plug

Keywords Laser trap Neutral atom trap Multiphoton ionization Atomic recombination MJM [Laser Cooling and Trapping of Neutral Atoms](#) C. S. Adams, Riis. E., 1997 **Laser Cooling and Magnetic Trapping of Neutral Atoms** Sung-Leung Ivan So, 1986 *An Electric Trap for Neutral Atoms* Patrick Windpassinger, 2005 **From Sundials to Atomic Clocks** James Jespersen, Jane Fitz-Randolph, 1999-01-01 Clear and accessible introduction to the concept of time examines measurement historic timekeeping methods uses of time information role of time in science and technology and much more Over 300 illustrations **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), 1988 **Handbook of Optics Third Edition, 5 Volume Set** Optical Society of America, 2010-05-18 The most comprehensive and up to date optics resource available Prepared under the auspices of the Optical Society of America the five carefully architected and cross referenced volumes of the Handbook of Optics Third Edition contain everything a student scientist or engineer requires to actively work in the field From the design of complex optical systems to world class research and development methods this definitive publication provides unparalleled access to the fundamentals of the discipline and its greatest minds Individual chapters are written by the world's most renowned experts who explain illustrate and solve the entire field of optics Each volume contains a complete chapter listing for the entire Handbook extensive chapter glossaries and a wealth of references This pioneering work offers unprecedented coverage of optics data techniques and applications Volume I covers geometrical and physical optics polarized light components and instruments Volume II covers design fabrications testing sources detectors radiometry and photometry Volume III all in full color covers vision and vision optics Volume IV covers optical properties of materials nonlinear optics and quantum optics Volume V covers atmospheric optics modulators fiber optics and x ray and neutron optics Visit [www.HandbookofOpticsOnline.com](http://www.HandbookofOpticsOnline.com) to search all five volumes and download a comprehensive index *Trapped Particles and Fundamental Physics* S.N. Atutov, R. Calabrese, L. Moi, 2002-03-31 Fundamental physics with trapped particles ions atoms or molecules represents one of the most challenging and promising fields of investigation with impressive results during this last decade The use of both particle trapping and laser cooling techniques together with traditional techniques of atomic

physics represents a powerful tool of investigation for a wide range of fields. Experiments spanning very high resolution spectroscopy to Bose-Einstein condensation tests of the Standard Model of electroweak interactions to precise mass measurements, detailed analysis of decay to QED tests have been presented by leading scientists who reported the most recent results and discussed the perspectives in the different fields. During the ten working days of the School, 39 lectures, 6 seminars and two poster sessions have been organized by offering to the attendants a complete picture of the present research status about the new frontiers of atomic physics. L. Caneschi gave a general overview of the Standard Model of electroweak interactions. He pointed out the achievements and the limits of validity of the model. *Publications of the National Institute of Standards and Technology 1988 Catalog* Rebecca J. Pardee, National Institute of Standards and Technology (U.S.), 1989. [A Quasi-electrostatic Trap for Neutral Atoms](#) Hans Engler, 2000. [Publications](#) United States. National Bureau of Standards, 1989.

## Unveiling the Magic of Words: A Report on "**Trapping Of Neutral Atoms**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Trapping Of Neutral Atoms**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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