

ultra-cold atoms in a cryogenic environment - atomchip - call for a phd thesis. ultra-cold atoms in a . cryogenic environment. contact: prof. jörg schmiedmayer , schmiedmayer@atomchip. or dr. stephan schneider ...

production and detection of cold antihydrogen atoms - cold atoms and anti-atoms, such as hydrogen and anti-hydrogen, could form the basis of a new precise test, as cpt invariance implies that they must have the same spectrum.

optical lattices with micromechanical mirrors - unibas - vacuum (as required for experiments with cold atoms) with a cryogenic environment (as required for micromechanical systems) and a high-precision optical cavity.

creating long-lived neutral-atom traps in a cryogenic ... - atoms. these traps exist in a sealed cryogenic environment with a temperature near 4 k, where the these traps exist in a sealed cryogenic environment with a temperature near 4 k, where the background gas pressure can be extremely low.

cold collisions of alkali atoms in a laser field - tu/e - chapter 1 introduction the field of "cold atomic collisions" was initiated around 1980 in connection with the study of spin-polarized atomic hydrogen in a cryogenic environment [1].

physics with cold molecules using buffer gas cooling - buffer gas cooling use inert gas in cryogenic environment to cool via collisions can be used to make cold atoms or molecules in a cell or beam

continuous lithium atomic beam source for cryogenic ... - abstract we have created an atomic beam source of lithium atoms for use in a cryogenic environment. this beam source is expected to provide a flux of 10¹⁸ atoms/s.

internally cold ions in the cryogenic storage ring - internally cold ions in the cryogenic storage ring oldrich novotny for the csr team max planck institute for nuclear physics, heidelberg, germany

the buffer gas beam: an intense, cold, and slow source for ... - the buffer gas beam: an intense, cold, and slow source for atoms and molecules nicholas r. hutzler, 1,hsin-i lu,1,2, yand john m. doyle z 1harvard university department of physics, 17 oxford street, cambridge, ma 02138 usa

physics with colder molecular ions: the heidelberg ... - in the following, we describe in short the plans which are presently being pursued at the max-planck institute for nuclear physics, heidelberg, for building a next generation, cryogenic storage ring (csr).

deep superconducting magnetic traps for neutral atoms and ... - capture magnetic atoms and molecules cooled in a cryogenic buffer gas. achieving this depth achieving this depth requires that the repulsive force between the coils ~which can exceed 30 metric tons! be contained.

a moving magnetic trap decelerator: a new source for cold ... - the first method provides atoms and molecules trapped in a difficult to access cryogenic environment, whereas the low temperature achieved in an adiabatic expansion comes at the expense of a high mean velocity.

viewpoint sensing magnetic fields with a giant quantum wave - viewpoint sensing magnetic fields with a giant quantum wave a refined version of a bose-einstein-condensate microscope detects static magnetic fields

cryogenic buffer-gas loading and magnetic trapping of crh ... - cryogenic buffer-gas loading and magnetic trapping of crh and mnh molecules michael stoll,1 joost m. bakker,2,3 timothy c. steimle,4 gerard meijer,1 and achim peters2

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