
Atom Chips

atom chip for bec interferometry - arxiv - atom chip for bec interferometry 2 atom chips are microfabricated devices that control electric, magnetic and optical fields in order to trap and manipulate cold atom clouds and bose-einstein condensates **superconducting atom chips: advantages and challenges** - v. dikovsky et al.: superconducting atom chips: advantages and challenges 249 2w b 0 z y x d i fig. 1. (left) superconducting strip carrying a current and placed in an external magnetic field. $z = 0$ is at the surface of the strip facing the atom trap. **optical cavities on atom chips - researchgate** - atom chips can be manufactured to provide arrays of miniature traps and guides, allowing for the simultaneous trapping and manipulation of a large number of spatially separated single atoms [35]. fig. **atomic waveguides for atom chips - arxiv** - based atom interferometers could be used to sense inertial fields or magnetic fields. successful development of miniature interferometers on atom chips would allow the development of very sensitive detectors based on the interference of matter waves in cold atom systems such as bose condensates or fermi degenerate gases. **12 fermions on atom chips - toronto ultra-cold atoms lab** - 12 fermions on atom chips marcius h.t. extavour, lindsay j. leblanc, jason mckeever, alma b. bardon, seth aubin, stefan myrskog, thorsten schumm, and joseph h. thywissen 12.1 introduction degenerate fermi gases (dfgs) earned their place at the leading edge of degenerate quantum gas research with the first demonstration of an atomic 40kdfgin ... **atom chips: matter waves in tailored micro potentials** claus zimmermann physikalisches institut der universität tübingen józsef fortágh sebastian kraft **mnl-1555 - atom on-chip - motherboard - super micro ...** - the information in this user's manual has been carefully reviewed and is believed to be accurate. the vendor assumes no responsibility for any inaccuracies that may be contained in this document, **design and fabrication of diffractive atom chips for laser ...** - design and fabrication of diffractive atom chips for laser cooling and trapping 1 3 page 3 of 6 172 here, the first line describes the diffraction from one elementary unit of the grating, as illustrated in fig. 3, while the last factor sums over the contribution from all n grating periods. the intensity distribution, obtained by squaring equa- **electric field sensing near atom chips using cold rydberg ...** - "atom chips" single wire with external bias field miniaturized trapping wires by fabricating them on a substrate - gives very high trapping gradients. atom clouds can be positioned by varying wire currents and bias field (which can be provided by wires). three wire guide review article: j. fortágh, c. zimmermann, rmp, 79, 235 (2007). **atom chip apparatus for experiments with ultracold ...** - presence of a nearby surface has also made atom chips a convenient testing ground of the casimir-polder force between an atom and a surface.8 in this paper, we present an atom chip-based apparatus that is well suited for studies of atom-surface forces, interferometry, transport in quasi-one-dimensional (1d) quantum **atom trap with the magnetic field of a vortex in a ...** - trapping neutral atoms in the field of a vortex pinned by a superconducting nano-disc vladimir sokolovsky, daniel rohrlich, baruch horovitz department of physics, ben gurion university of the negev, beersheba 84105, israel abstract atom chips made of superconducting material can generate magnetic traps with significantly reduced noise. **spin decoherence in superconducting atom chips** - spin decoherence in superconducting atom chips bo-sture k. skagerstam,^{1,*} ulrich hohenecker,² asier eiguren,² and per kristian rekda^{2,†} ¹complex systems and soft materials research group ...

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