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## Optically Pumped Atoms

**longitudinal spin relaxation of optically pumped rubidium ...** - longitudinal spin relaxation of optically pumped rubidium atoms in solid parahydrogen sunil upadhyay,1 andrew n. kanagin,1 chase hartzell,1 tim christy,1 w. patrick arnott,1 takamasa momose,2 david patterson,3 and jonathan d. weinstein1,\* 1department of physics, university of nevada, reno, nevada 89557, usa 2department of chemistry, the university of british columbia, vancouver, british ... **optically pumped alkali magnetometers for biomedical ...** - optically pumped alkali magnetometers for biomedical applications l antoine weis physics department, university of fribourg, switzerland antoine.weis@unifr doi: 10.1051/epl/2012301 atomic magnetometers are novel sensitive devices for medical diagnosis. they use laser radiation to prepare spin-coherent atomic samples and to monitor **optically pumped microplasma rare gas laser - psicorp** - abstract: the optically pumped rare-gas metastable laser is a chemically inert analogue to three-state optically pumped alkali laser systems. the concept requires efficient generation of electronically excited metastable atoms in a continuous-wave (cw) electric discharge in flowing gas mixtures near atmospheric pressure. **spin-velocity correlations of optically pumped atoms - arxiv** - malism of the recent book optically pumped atoms by happer, jau and walker [12] (which we will refer to as opa) for handling the large amount of information needed to describe the spin-velocity correlations of optically pumped atoms. one of the best early descriptions of liouville space is given in the book by ernst et al. [13]. **optically polarized atoms ch 5 - the budker group** - optically polarized atoms marcis auzinsh, university of latvia dmitry budker, uc berkeley and lbl simon m. rochester, uc berkeley. 2 ... • in more complex atoms, an electron sees a more complicated potential • if we approximate the potential from nucleus and other electrons as centro- **optically pumped semiconductor lasers for atomic and ...** - optically pumped semiconductor lasers for atomic and molecular physics s. burd a,b, d. leibfried a,a.c.wilsona and d. j. wineland a a national institute of standards and technology, 325 broadway, boulder co, usa b department of physics, university of colorado, boulder co, usa abstract experiments in atomic, molecular and optical (amo) physics rely on lasers at many different wavelengths and **influence of laser noise on the optically pumped, atomic ...** - the optically pumped atomic-beam clock offers the potential for orders-of-magnitude improvement over conventional beam clocks. in part, this improvement stems from the use of diode lasers to efficiently prepare the atoms prior to entering the ramsey cavity region and then to efficiently probe the atoms after they have passed through the cavity. **preliminary investigation of a new optically pumped atomic ...** - broad atomic beam for the transport of optically pumped atoms from one end to the other with collimation given by the aspect ratio of the tube. at each end the rb "beam" is crossed by a laser. in each interaction region, the laser optically pumps atoms into one of the 5 2s hyperfine level s, **optically-pumped magnetometers for meg** - fig. 1 light from a circularly polarized laser beam optically pumps the rb atoms, while light from a second laser beam probes the magnetic field-dependent spin orientation through polarization rotation. both the transmission and polarimeter signal show a resonance as a function of magnetic field optically-pumped magnetometers for meg 995 **populations in optically-pumped atoms with circularly ...** - abstract: we present an analytical calculation of temporal evolution of populations for optically pumped atoms under the influence of weak, circularly polarized light. the differential equations for the populations of magnetic sublevels in the excited state, derived from rate equations, **fluorescent light shift in optically pumped cesium standards** - optically pumped atomic beam frequency standards that is not present in existing cesium standards. this shift can be quite large (parts in 10<sup>6</sup> while the atoms are directly exposed to a light beam intense enough to produce optical pumping [1]). but in an atomic beam the optical pumping and resonance **investigation of noble gas polarization using optically ...** - with optically pumped polarized rb atoms. studies of alkali metals other than rb have suggested that k may polarize 3he more efficiently. more efficient polarization would decrease the laser power needed to polarize the alkali metal, or alternatively, decrease the time needed to reach maximum polarization. this is desirable for maintaining high 3he **optically pumped atoms - download.e-bookshelf** - optically pumped atoms wiley-vch verlag gmbh & co. kga. 9783527629510g. william happer, yuan-yu jau, and thad walker. optically pumped atoms. related titles. hill, w. t., lee, c. light-matter interaction. atoms and molecules in external fields and nonlinearoptics. 2007 isbn 978-3-527-40661-6. riehle, f. **optically pumped atomic magnetometer - jst** - optically pumped atomic magnetometer: toward novel meg and mri systems tetsuo kobayashi department of electrical engineering, graduate school of engineering, kyoto university abstract: optically pumped atomic magnetometers (opams) using alkali metal vapors contained in glass cells have reached

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