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#### What Is Spin Arxiv

This is a late answer to question #79 by R.I. Khrapko, "Does plane wave not carry a spin?," Am. J. Phys. /69/, 405 (2001), and a complement (on gauge invariance, massive spin 1 and 1/2, and massless spin 2 fields) to the paper by H.C. Ohanian, "What is spin?," Am. J. Phys. /54/, 500–505 (1985). In particular, it is confirmed that "spin" is a classical quantity which can be calculated for any ...

#### [physics/0308027] What is spin? - arXiv.org e-Print archive

What Is Spin Arxiv Donate to arXiv. Please join the ... In particular, it is confirmed that "spin" is a classical quantity which can be calculated for any field using its definition, namely that it is just the non-local part of the conserved angular momentum. [physics/0308027] What is spin? - arXiv.org e-Print archive

#### What Is Spin Arxiv

Donate to arXiv. Please join the ... We find that spin plays an important role in the growth of early SMBHs, and the constraints on seed mass and super-Eddington accretion fraction strongly depend on the assumed accretion history. If the accretion is coherent with single (or a small number of) episode(s), leading to high spins for the majority ...

#### Effects of spin on constraining the seeds and ... - arxiv.org

Hybrid spin-mechanical setups offer a versatile platform for quantum science and technology, but improving the spin-phonon as well as the spin-spin couplings of such systems remains a crucial challenge. Here, we propose and analyze an experimentally feasible and simple method for exponentially enhancing the spin-phonon, and the phonon-mediated spin-spin interactions in a hybrid spin-mechanical ...

#### Enhancing spin-phonon and spin-spin ... - arXiv.org

Abstract: Spin and orbital freedoms of electrons traveling on spin-resolved quantum Hall edge states (quantum Hall ferromagnets) are maximally entangled. The unitary operations on these two freedoms are hence equivalent, which means one can manipulate the spins with non-magnetic methods through the orbitals.

#### Gate controlled unitary operation on flying spin qubits in ...

We place theoretical constraints on the leading deviations to four-fermion standard model interactions. Invoking S-matrix analyticity, partial wave unitarity, and UV improvement of the amplitude, we develop new dispersion relations that imply a positivity condition on dimension-six fermionic operators. For the SMEFT, positivity charts the boundary of the consistent theory, including a pattern ...

#### Signs, Spin, SMEFT: Positivity at Dimension Six - arxiv.org

Magnetic field of rotating pulsar might be so strong that the equation of state (EOS) of neutron star (NS) matter is significantly affected by the spin polarization of baryons. In the present work, the EOS of the spin-polarized nuclear matter is investigated in the nonrelativistic Hartree-Fock formalism, using a realistic density dependent nucleon-nucleon interaction with its spin and spin ...

#### Spin-polarized s̄s-stable neutron star matter ... - arxiv.org

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#### [2010.10420] Curvature tensors of higher-spin gauge ...

n improved laboratory bound on the exotic spin- and velocity-dependent interaction at micrometer scale is established with a single electron spin quantum sensor. The single electron spin of a near-surface nitrogen-vacancy center in diamond is utilized as the quantum sensor and a vibrating half-sphere lens is taken as the source of the moving nucleons. The exotic interaction between the ...

#### Experimental Constraint on an Exotic Parity-Odd Spin- and ...

In the case of spin-half,  $\Psi$  takes values in  $C^2$ , the spinors, and rotations act on the spinors (in a new way unlike the normal action of rotation on vectors and tensors, including the fact that it is a double-cover of the rotation group that acts, the usual rotations act only up to minus-sign problems).

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#### What Is Spin Arxiv - dc-75c7d428e907.tecadmin.net

The spin Hall effect (SHE) is a transport phenomenon predicted by Russian physicists Mikhail I. Dyakonov and Vladimir I. Perel in 1971. It consists of the appearance of spin accumulation on the lateral surfaces of an electric current-carrying sample, the signs of the spin directions being opposite on the opposing boundaries.In a cylindrical wire, the current-induced surface spins will wind ...

#### Spin Hall effect - Wikipedia

Abstract: Photovoltaic effect, e.g., solar cells, converts light into DC electric current. This phenomenon takes place in various setups such as in noncentrosymmetric crystals and semiconductor pn junctions. Recently, we proposed a theory for producing DC spin current in magnets using electromagnetic waves, i.e., the spin-current counterpart of the solar cells.