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A promising approach for multi-qubit quantum registers is to use optically addressable spins to control multiple dark electron-spin defects in the environment. While recent experiments have observed signatures of coherent interactions with such dark spins, it is an open challenge to realize the individual control required for quantum information processing. Here we demonstrate the ...

#### Entanglement of dark electron-nuclear spin ... - arxiv.org

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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. This leads to explicit expressions which are bilinear

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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**

In condensed matter physics, a quantum spin liquid is an unusual phase of matter that can be formed by interacting quantum spins in certain magnetic materials. Quantum spin liquids (QSL) are generally characterized by their long-range quantum entanglement, fractionalized excitations, and absence of ordinary magnetic order.. The quantum spin liquid state was first proposed by physicist Phil ...

### **Quantum spin liquid - Wikipedia**

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We consider transformation from a closed to an open spin chain and vice versa produced by changing single link strength in a pair of neighboring spins. We show that in the non-adiabatic time domain fidelity of such a process can be increased by proper choosing of the control function for spin-spin exchange coupling. We obtain this function for an antiferromagnetic quantum Ising chain and ...

### **Non-adiabatic transformation of a spin ... - arxiv-vanity.com**

Low-temperature muon spin-lattice relaxation measurements in the non-Fermi-liquid heavy-fermion alloys  $\text{UCu}_{5-x}\text{Pd}_x$ ,  $x=1.0$  and  $1.5$ , indicate inhomogeneously distributed f-electron spin fluctuation rates, and exhibit a time-field scaling of the muon relaxation function indicative of long-lived spin correlations. In  $\text{UCu}_4\text{Pd}$  the scaling exponent  $\gamma$  is small and temperature independent. In  $\text{UCu}_{3.5}\text{Pd}_1$  ...

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