



Dominica Quasi-Photon Storage

Deterministic storage and retrieval of telecom light from aIn this work, we experimentally demonstrate the storage and active recall of deterministic telecom light emitted from a semiconductor QD single- photon source in a hot Exponential Improvement in Photon Storage Fidelities Using We find numerically that selectively radiant states allow for a photon storage error that scales exponentially better with the number of atoms than previously known bounds. Many quantum information On-demand storage and retrieval of single photons from a Here, we demonstrate on-demand storage and retrieval of single photons from a semiconductor quantum dot device in a room-temperature atomic vapor memory. Storing single photons emitted by a quantum memory on a highly Here we demonstrate storage and retrieval of a paired and synchronizable single photon in a highly nonlinear medium based on excited Rydberg atomic states of a cold atomic Deterministic Photon Storage and Readout in aIn this paper, a single-photon buffering device composed of a quantum dot doped with a single Mn atom in a cavity is theoretically proposed. A method to detain a single cavity photon as an excitation of the dot is presented. Light storage for one second in room-temperature Here we present and experimentally demonstrate a storage scheme that is insensitive to spin-exchange collisions, thus enabling long storage times at high atomic densities. Low-noise quantum memory for quasi-deterministic single A quantum repeater architecture based on the use of deterministic single-photon sources and absorptive ensemble-based quantum memories was proposed to overcome this limitation [2]. Raman Storage of Quasideterministic Single Photons Generated We demonstrate the storage and retrieval of an on-demand single photon generated by a collective Rydberg excitation in a low-noise Raman quantum memory located Highly efficient storage of cavity SPDC single In this paper, we explore the combination of an ultralow spectral bandwidth source of single photons from cavity-enhanced spontaneous parametric down-conversion with a hot gas-ensemble Deterministic storage and retrieval of telecom light In this work, we experimentally demonstrate the storage and active recall of deterministic telecom light emitted from a semiconductor QD single-photon source in a hot rubidium vapor quantum memory terministic storage and retrieval of telecom light from aIn this work, we experimentally demonstrate the storage and active recall of deterministic telecom light emitted from a semiconductor QD single- photon source in a hot Exponential Improvement in Photon Storage Fidelities Using We find numerically that selectively radiant states allow for a photon storage error that scales exponentially better with the number of atoms than previously known bounds. Storing single photons emitted by a quantum memory on a highly Here we demonstrate storage and retrieval of a paired and synchronizable single photon in a highly nonlinear medium based on excited Rydberg atomic states of a cold atomic Deterministic Photon Storage and Readout in a In this paper, a single-photon buffering device composed of a quantum dot doped with a single Mn atom in a cavity is theoretically proposed. A method to detain a single cavity photon as an Light storage for one second in room-temperature alkali vaporHere we present and experimentally demonstrate a storage scheme that is insensitive to spin-exchange collisions, thus enabling long storage times at high atomic densities. Highly efficient storage of cavity SPDC



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