Dominica Quasi-Photon Storage

Here, we present an experimental demonstration of QLS on a photonic chip leveraging the large SBS gain of chalcogenide glass, achieving

Photon Queue is developing quantum memories that leverage simple and scalable linear optics to create one of the best photon-storage

The optical characteristics and applications of the quasicrystal, a special form of aperiodic engineered structure, are explored in this Review article.

Storing and delaying optical signals is key for signal processing and control in many microwave photonics, quantum and classical communication systems. Hence, scientists proposed

Now researchers with the Photonics Initiative at the Advanced Science Research Center (ASRC) at The Graduate Center, CUNY have developed a new protocol for storing and releasing a single photon in ...

The Dominica Schools Microgrid Project serves as a proof point for how solar and storage systems can preserve community vibrancy by bolstering energy resilience amid intensifying climate

The Dominican Republic has launched a tender for up to 600 MW of solar and wind capacity, requiring projects to include at least four hours of

We study the single particle and collective dynamics of a storage ring where the momentum compaction is made small to make it nearly isochronous, to reduce the bunch length and increase

Here we report the storage and retrieval of single photons in a ground-state atomic vapor cell quantum memory. Our memory scheme suppresses readout noise by exploiting polarization selection rules in

We prepare five separated 10-GHz atomic frequency combs (AFCs) simultaneously in Er3+-doped fiber, then

demonstrate temporally- and spectrally-multiplexed storage of telecom-band single-photons up

Abstract: Quantum storage of 147 temporal modes at telecom-band is experimentally demonstrated by using a fiber-pigtailed laser-written Er 3+ : LiNbO 3 waveguide.

In our work we demonstrate storage and retrieval of single photons at high bandwidth in a room-temperature platform, consisting of a single-photon source based on spontaneous parametric

Their idea was to conditionally prepare single photons by measuring one member of a spontaneously emitted photon pair and storing the remaining conditionally prepared photon until a predetermined

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

The ability to achieve controlled, deterministic interac- tions between photons and atomic media constitutes an important resource in applications ranging from quantum information processing to ...

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