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## (POS-2) Benchmarking a Commercial Quantum Memory

*Tuesday 28 May 2024 17:45 (2 minutes)*

The quantum internet is an emerging quantum technology that will enable the networking of quantum computers and secure communications via quantum key distribution. A key element of this network is the quantum repeater which promises to mitigate loss intrinsic to fiber-based communication. Quantum repeaters require a quantum memory capable of high-fidelity storage and retrieval of quantum optical states. Recently, such quantum memories have become commercially available, but are awaiting “field-testing”. In this poster, we describe our work that seeks to test and verify the storage and retrieval of a Relative Intensity Squeezed state based on such a commercial quantum memory.

### Keyword-1

Quantum Memory

### Keyword-2

Squeezed light

### Keyword-3

**Primary author:** KUPCHAK, Connor

**Co-authors:** MACRAE, Andrew (University of Victoria); Prof. FIGUEROA, EDEN (Stony Brook University); MOHAMMAD KHANI, Jamal; Mr GREGORY, Kenny (University of Carleton)

**Presenter:** KUPCHAK, Connor

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