



Contribution ID: 177

Type: **Poster**

Infrared-to-Telecom Frequency Conversion in an Atom-Filled Hollow-Core Fibre

Tuesday 13 December 2022 18:45 (15 minutes)

We characterise near-IR to telecom frequency conversion via four-wave mixing in a rubidium-filled hollow-core fibre to allow for information transfer between efficient quantum memories within a fibre-based quantum network.

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Session Classification: Poster session

Track Classification: ANZCOP: ANZCOP: Nonlinear optics and photonics