

Spontaneous Parametric Down-Conversion Beaming from a Lithium Niobate Nanostructured Resonator

Thursday, 6 February 2025 09:45 (15 minutes)

We report the design and fabrication of lithium niobate nanostructured resonators for enhancement and directional beaming of spontaneous parametric down-conversion photons. Preliminary measurements achieved photon-pair production rates up to 300 Hz/W at telecom wavelengths.

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Session Classification: Sessioni parallele

Track Classification: A6.2 Photons