



Contribution ID: 98

Type: **Talk (preferred)**

Superresolution measurements and the quantum Gouy phase in transverse-spatial N00N states

Tuesday 13 December 2022 14:45 (15 minutes)

By structuring the spatial profile of single photons, we were able to demonstrate different types of quantum advantages in metrological applications. This method also enabled an investigation into a new type of quantum state evolution with possible future applications.

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Session Classification: Australian and New Zealand Conference on Optics and Photonics

Track Classification: ANZCOP: ANZCOP: Quantum optics