



Contribution ID: 211

Type: **Talk (preferred)**

## Topologically optimized metasurface for characterizing two-photon distinguishability in a single shot

*Tuesday, 13 December 2022 17:15 (15 minutes)*

We propose and fabricate a static dielectric metasurface that enables single-shot characterization of the distinguishability between two photons with high transmission efficiency and tolerance to measurement noise.

**Primary author:** MA, Jinyong (Research School of Physics, The Australian National University, Canberra, ACT 2601, Australia)

**Co-authors:** Prof. SUKHORUKOV, Andrey (ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS), Research School of Physics, The Australian National University, Canberra, ACT 2601, Australia.); Dr ZHANG, Jihua (ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS), Research School of Physics, The Australian National University, Canberra, ACT 2601, Australia.); Mr LI, Neuton (ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS), Research School of Physics, The Australian National University, Canberra, ACT 2601, Australia.); Ms LUNG, Shaun (ARC Centre of Excellence for Transformative Meta-Optical Systems (TMOS), Research School of Physics, The Australian National University, Canberra, ACT 2601, Australia.)

**Presenter:** MA, Jinyong (Research School of Physics, The Australian National University, Canberra, ACT 2601, Australia)

**Session Classification:** Focus Session

**Track Classification:** Focused Sessions: Metaphotonics and Metasurfaces