



Contribution ID: 27

Type: **Talk (preferred)**

Dispersion Engineering for Complete Coherent Conversion

Thursday 15 December 2022 14:15 (15 minutes)

We show theoretically how to control coherent conversion between a narrowband pump photon and broadband photon pairs in nonlinear optical waveguides by tailoring frequency dispersion for broadband quantum frequency mixing.

Primary authors: SOLNTSEV, Alexander (University of Technology Sydney); BATALOV, Sergey (Ural Federal University); LANGFORD, Nathan (University of Technology Sydney); SUKHORUKOV, Andrey (The Australian National University)

Presenter: SOLNTSEV, Alexander (University of Technology Sydney)

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

Track Classification: ANZCOP: ANZCOP: Nonlinear optics and photonics