Combined MQ Photonics Research Centre & Centre for Quantum Engineering Seminar



A/Prof Alex Solntsev University of Technology, Sydney Nonlinear quantum optics: from photonic chips to nanoscale

Quantum optics has a range of applications including secure communication, precise sensing, and ultrafast computing. Optical nonlinearities have long been used as a source of quantum light. Nowadays, nonlinear quantum photonics is undergoing rapid miniaturisation, moving from bulk optics, to photonic chips, and, more recently, to nano-scale components. This transition is what this talk is about.

When: 2 pm Wednesday 12 May 2021 (Sydney time) Multipurpose Room, 2.300 7WW Or zoom https://macquarie.zoom.us/j/85829287435



Alexander Solntsev graduated with a double degree in Physics and Education from the Lomonosov Moscow State University in 2009 and received a PhD from the Australian National University in 2013. He worked as a Postdoctoral Researcher and a Research Fellow at the ANU. In 2017 he joined UTS as a Senior Lecturer to establish a laboratory focused on nonlinear and quantum optics. In 2021 he was promoted to Associate Professor.