The Vienna Doctoral Programme on Complex Quantum Systems invites you to a

Seminar Talk

by

Xiaosong Ma

School of Physics, Nanjing University

Harnessing single photons in quantum technology

Quantum technology employs the 'spooky' phenomena of quantum physics such as superposition, randomness and entanglement to process information in a novel way. Quantum photonics provides a promising path for both delivering quantum-enhanced technologies and exploring fundamental physics.

In this talk, I will introduce our recent work on quantum delayed-choice experiment based on multiphoton entangled states, which shows that a photon can not only be a particle or wave, but the superposition of them, even under Einstein's locality condition. In the second part of my talk, I will present our recent endeavors in developing functional nodes for quantum information processing based on integrated optics architecture and their potential applications in a metropolitan fiber network.

Monday, 4 June, 2018

17:00h get-together with coffee and snacks!

Hlawka Hörsaal (HS 9), Gußhausstraße 27-29, 1040 Vienna

Hosted by: Anton Zeilinger