

The International Research Training Group “Imaging of Quantum Systems”

cordially invites you to a guest lecture by



Prof. Dr. Khabat Heshami
(University of Ottawa)

on

"Quantum information processing with quantum light"

The lecture takes place
on 12 November 2024 (Tuesday) at 4pm
in Lecture Hall II (Albert-Einstein-Straße 24).

Abstract: Processing information using quantum physics is believed to offer advantages in computing, sensing, and secure communication. Quantum states of light proved to be useful in demonstrating these applications of quantum information processing. In this talk, I will give you an overview of these applications and how quantum optics is utilized to in such demonstrations. This covers examples from quantum communication, quantum metrology, and generation of non-classical states for quantum computation. In the end, I will discuss the effect of loss on non-classical states of light and its significance.