

HiLASE Centre is pleased to invite you to attend the seminar

Photon counting with weak twin beams

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Investigations of mesoscopic twin beams containing typically several photon pairs using an iCCD camera with single-photon resolution will be discussed. Operation of the camera as a photon-number-resolving detector endowed with spatial resolution will be analyzed. Different types of reconstructions of the joint signal-idler photon-number distributions of weak twin beams will be discussed. Reconstruction of the joint signal-idler quasi-distributions of integrated intensities will be discussed. Different types of nonclassicality (entanglement) criteria will be introduced. The method of absolute detector calibration principally based on pairing of photons in twin beams will be presented.

Postselection by photon-number-resolving detection as a tool for generating (higher-order) sub-Poissonian states of light will be discussed based on the experimental results.

When: Wednesday, **05/06/2019** at **14:00**

Where: Seminar room, HiLASE Centre, Dolní Břežany, Za Radnicí 828