

Invitation to IQST Seminar

on Wednesday, February 13th, 2019, 9.30am
University of Stuttgart
Allmandring 3
Room 0.003

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Chekhova Research Group

Title: Non-classical multi-photon light from clusters of colloidal quantum dots

Abstract: We study non-classical features of multi-photon light emitted by clusters of single-photon emitters. As signatures of non-classicality, we use violation of inequalities for normalized correlation functions of different orders or the probabilities of multi-photon detection. In particular, for clusters of 2–14 colloidal CdSe/CdS dot-in-rods we observe anti-bunching and non-classicality of up to the fourth-order. Surprisingly, violation of certain classical inequalities gets even more pronounced for larger clusters.

Host: Prof. Dr. Stefanie Barz, FMQ; University of Stuttgart