

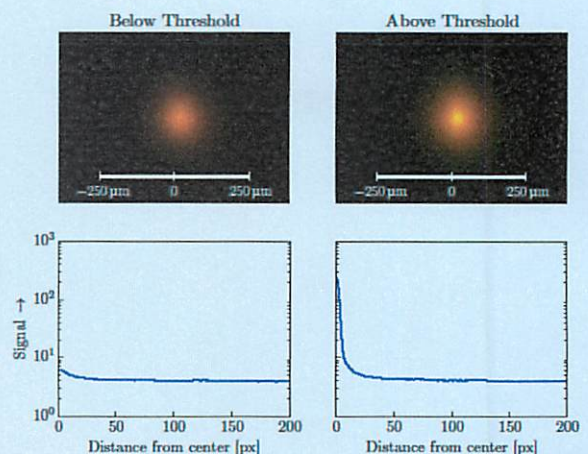
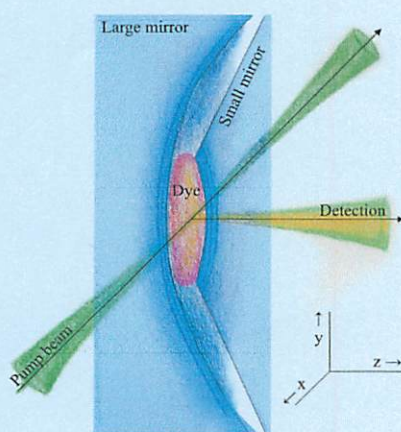
Kolloquium des SFB/TR 49 gemeinsam mit Theoretisch-Physikalischem Kolloquium

Donnerstag, den 22.06.2017 um 15:30 Uhr in Raum 46-576

Interactions and polarization of a Bose-Einstein condensate of light

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Since the first achievement of Bose-Einstein condensation in atomic vapors, the phenomenon has been an intense subject of study. More recently, Bose-Einstein condensation has been studied in other systems, such cavity exciton-polaritons, magnons and most recently microcavity photons. What these novel systems have in common is that they occur in a quasi-equilibrium and are, for the most part, (much) more weakly interacting than their atomic counterparts. I will discuss our work on Bose-Einstein condensation of photons in a dye-filled microcavity, as was pioneered by the group of Martin Weitz. I will specifically discuss two experiments. In one experiment, we investigate the condensate size in an effort to learn more about the effect of interactions of the photons in the condensate. In the other experiment, we study the polarization behavior of the condensate using an imaging polarimeter, that allows us to spatially resolve the Stokes-parameters of the condensate on a single-shot basis. In my talk, I will show the more recent results of these two ongoing experiments.



Gäste sind herzlich willkommen.

Die Dozenten der Theoretischen Physik