

Theoriekolloquium

Am **26. November 2015** um **14.15 Uhr** in **W2 1-143** hält

Herr Prof. Dr. Ludwig Mathey (Hamburg)

einen Vortrag mit dem Titel

Probing superfluidity via laser stirring

In this talk I will present a recent study on the superfluid properties of a Li-6 cloud across the BEC-BCS transition probed via stirring with a laser beam, as reported in PRL 114, 095301 (2015). We demonstrate a quantitative understanding of the induced heating. Using both numerical and analytical methods, we identify the non-zero temperature, the circular motion of the stirrer and the geometry of the cloud as key factors influencing the magnitude of the critical velocity. A direct comparison to the experimental data shows excellent agreement.

Interessierte sind herzlich eingeladen.

gez. Prof. Dr. Martin Holthaus