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MATHEMATIKKOLLOQUIUM

Das Institut für Mathematik lädt zu folgendem Vortrag ein:

Marco Caliari

Universität Verona, Italien

Location and phase segregation of ground states for 2D Gross-Pitaevskii systems

We consider a system of Gross-Pitaevskii equations in \mathbb{R}^2 modelling a mixture of two Bose-Einstein condensates with repulsive interaction. We aim to study the qualitative behaviour of ground-state solutions on the basis of recent numerical investigations. We allow two different harmonic off-centered potential functions and study the spatial pattern of the solutions within the Thomas-Fermi approximation as well as the phase segregation phenomena within the large interaction regime.

Zeit: Dienstag, den 08. Januar 2008 um 17:15 Uhr

Ort: Viktor-Franz-Hess-Haus, Technikerstraße 25, HS D

Mechthild Thalhammer

Gäste sind herzlich willkommen!