



SFB/TRR 21 - Seminar

18. Mai 2011, Stuttgart

## Matthias Scholl

(Universität Kaiserslautern)

### Dissipative defects in Bose-Einstein condensates

We study the evolution of a Bose-Einstein condensate subjected to a local dissipative defect. In our experiment, we locally remove atoms from the cloud by ionizing them with a focussed electron beam. By analyzing the time resolved ion signal, we explore the decay dynamics of the BEC. Theoretically, we model the decay by a numerical simulation of the Gross-Pitaevskii equation with an imaginary potential.

18. Mai 2011, 14:00 Uhr

Universität Stuttgart, NWZII, Raum 3.331  
Pfaffenwaldring 57, 70569 Stuttgart

