Einladung zum „Laser-Seminar“

(gemeinsam von:
Forschungszentrum „OPTIMAS“ und Graduiertenkolleg 792)

Freitag, 21.05.2010, 10:15 Uhr, Raum 46/388

Es spricht:

Jun. Prof. Selim Jochim
MPI Heidelberg

über das Thema:

Few-body physics with an ultracold Fermi gas

Abstract:
In this talk I will present our studies of the three-body physics in gas of ultracold fermions, which turns out to be governed by the Efimov effect. It was predicted by V. Efimov in the 1970s that when interparticle interactions become resonant, a series of three-body bound states should exist that have a size much larger than the range of the interparticle interaction, leading to "universal" properties that do not depend on the microscopic details of the potential. Their existence was first confirmed in 2006 in experiments with ultracold Cesium atoms. In my talk I will present the first measurement of the binding energy of such bound states using a spectroscopic technique.

Der Gast wird betreut von Prof. Dr. M. Fleischhauer.

Gäste sind herzlich willkommen.