

Einladung
zum
Physikalischen Kolloquium
Montag, 30.05.2016
16:15 Uhr in N24/H13



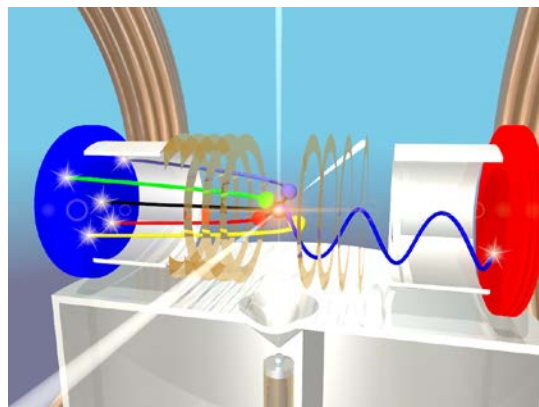
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Imaging wave function of few body systems: He dimers, trimers and the Efimov state of He_3

Two and three Helium atoms form very unusual and extreme quantum systems. Their typical extend is ten to hundred times bigger than radius of the atoms, the wavefunction lives almost completely in the classically forbidden tunneling region and the binding energy of these systems is about 8 orders of magnitude smaller than that of a normal molecule.

We will show how coincidence detection of charged fragments and super strong laser fields can be used to image the wave functions of these Helium quantum giants and will show the first experimental images of an Efimov state.

Figure: A COLTRIMS Reaction Microscope



Ab 16.00 Uhr Kaffee, Tee und Kekse vor dem Hörsaal H13

Organisation: Prof. Dr. F. Jelezko, Tel. 23750, Host: Prof. Dr. W. Schleich, Tel. 23080, off.: 23081