## **Kevin Wright**

(Dartmouth College, USA)

## **Superfluid Circuits of Ultracold Atoms**

Using "designer" optical potentials it is possible to create circuits of ultracold atomic gases with properties analogous to simple superconducting circuits. This talk will focus on results from several proof-of-principle experiments on a BEC "circuit" in a configuration that is analogous to a one-junction superconducting quantum interference device (SQUID). I will discuss some of the limits of this type of this device as a rotation sensor, and outline some other potential opportunities for studying quantum many-body physics with ultra-cold atoms in a ring geometry.

7. Februar 2014, 14:00 Uhr

Universität Ulm, Raum N25/H9 Albert-Einstein-Allee 11, 89081 Ulm

