

Physikalisches Kolloquium



Thursday, 01.02.2024, 16:15, HS 100

Reception with coffee & cookies 16:00

(For university staff: please bring your own cup for sustainability reasons)

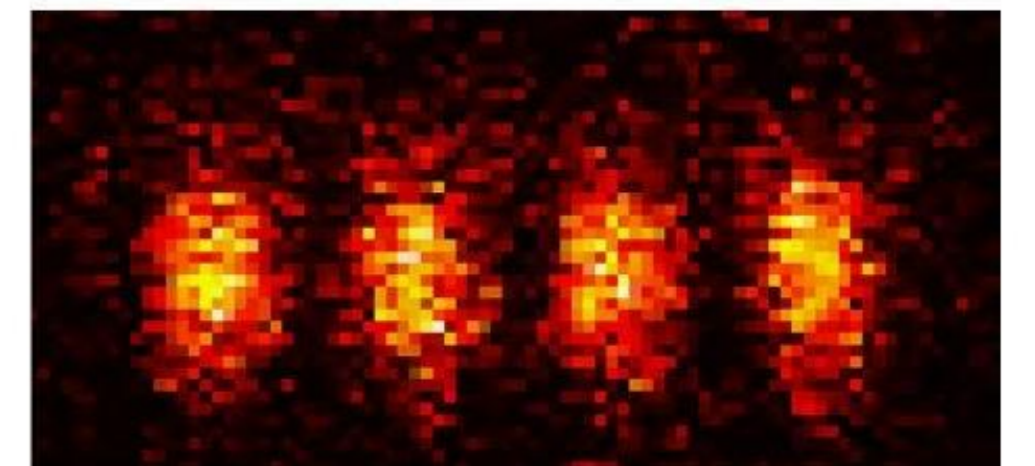
Prof. Dr. Dieter Meschede, Institut für Angewandte Physik,
Universität Bonn:

Quantum Technology: Passion for Precision Atom Control

Abstract

Quantum technology is expected to open new routes for technological developments around the world. The hardware for these technological endeavors will largely be based on photons, atoms, artificial atoms, and their interactions. Extremely tight and robust control of these quantum objects will be essential to transform concepts from academic research into real world applications --calling for the passion for precision which is essential and also enjoyable in experiments.

I will discuss advances obtained in controlling trapped atoms at the single and few particle level. Insight and application perspectives are ranging from fundamental questions such as the so called quantum speed limit, illustrations fostering a wavefunction camera, and applications for miniature optical resonators suitable for storing quantum information as well as serving on Mars missions.



All of you interested in physics are cordially invited!

Contact: Prof. Dr. Mohamed Benyoucef, Quantum Nano Photonics, More Information: uni-kassel.de/go/physikalisches_kolloquium