



SFB/TRR 21 - Colloquium

2. Juli 2010, Stuttgart

Florian Schreck

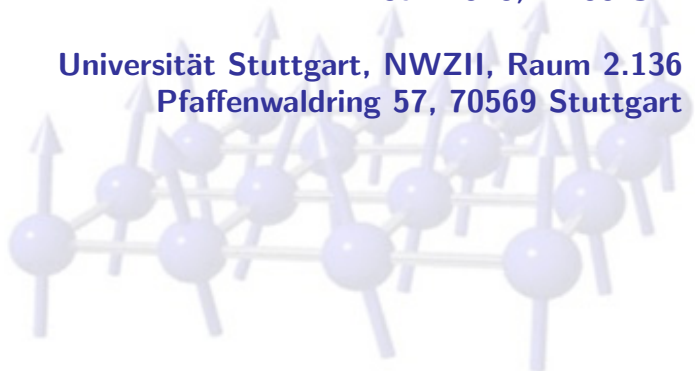
(Universität Innsbruck)

Ultracold atoms at IQOQI: ${}^6\text{Li}{}^{40}\text{K}$ Fermi mixtures & degenerate quantum gases of strontium

I will present two experiments, one exploring ${}^6\text{Li}{}^{40}\text{K}$ Fermi mixtures and the other quantum degenerate gases of strontium. The Fermi mixture experiment has the goal to create a new class of strongly interacting many-body quantum systems. We present first measurements indicating that the strongly interacting regime was reached. The second experiment will use the rich internal state structure of strontium for quantum computation and simulation. We recently created Bose-Einstein condensates and degenerate Fermi seas of strontium.

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