



SFB/TRR 21 - Seminar

12. April 2011, Stuttgart

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### Dispersion interactions with Rydberg atoms

Dispersion interactions such as Casimir-Polder and van der Waals forces are manifestations of the ground-state fluctuations of the electromagnetic field. In my talk I will describe how they affect atoms in highly excited electronic states. In particular, I will explain the temperature (in-)dependence of Casimir-Polder shifts in Rydberg atoms and comment on general distance scaling laws.

**12. April 2011, 14:00 Uhr**

**Universität Stuttgart, NWZII, Raum 4.331  
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