Einladung
zum
Physikalischen Kolloquium

Montag, 21.10.2013
16:15 Uhr in N24/H13

Prof. Dr. Michael Drewsen
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Single molecular ions:
Molecular physics at the most fundamental level
The past two decades there has been a tremendous progress in experiments with single trapped atomic ions. Presently, e.g., the most precise optical frequencies have been measured with single atomic ions, and the furthest advances towards the realization of practical quantum computing are based on single ionic species. Experiments with single molecular ions have likewise made impressive advances the past years, e.g., with the demonstration of single ion reaction experiments, and with the development of internal state preparation methods suitable for single ions. Besides reviewing some single molecular ion experiments carried out at Aarhus University, I will discuss the perspectives for the next generation of single molecular ion experiments including femtosecond-laser internal state manipulation and ultracold ion chemistry, i.e. chemistry in the microkelvin regime.

Ab 15.45 Uhr Kaffee, Tee und Kekse vor dem Hörsaal H13

Organisation: Prof. Jelezko Tel.: 23750
Host: Prof. Plenio Tel.: 22900, off: 22911