



Physikalisches Kolloquium

Simon White, MPIA Garching

»The (very) small-scale structure of dark matter halos«

Einführung: G. Drexlin

I will present results from the Aquarius Project, the largest and most comprehensive set of simulations of the formation of the dark halo of our own Milky Way galaxy ever carried out. This programme allows the structure predicted by the standard Lambda CDM model of structure formation to be studied in unprecedented detail. It has often been claimed that the signal in direct and indirect dark matter searches depends on structure which is orders of magnitude below the resolution limit of even the largest simulations. I will describe new techniques that allow the detailed properties of this structure to be studied, and I will explain why its effects can, in fact, be neglected.

**Freitag, 24.10.2008, 17 Uhr c.t.,
Universität Karlsruhe (TH), Otto-Lehmann-Hörsaal, Physik-Flachbau (Geb. 30.22).
Anschließend Nachsitzung im Gastdozentenhaus „Heinrich Hertz“**