



**Colloquium
Dahlem Center for Complex Quantum Systems**

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**Spin and charge transport through magnetic molecules and
quantum dots**

Location: Hörsaal B (0.1.01)

Time: Monday, October 29th, 2012, 14:00 c.t.

Abstract:

Transport properties of magnetic molecules as well as magnetic quantum dots will be reviewed, with special emphasis on the low-temperature features due to Kondo correlations. The molecules/dots are generally connected to magnetic leads and the interplay of various interactions, including ferromagnetism in the leads, electron-electron interactions in the molecules/dots will be discussed. Current-induced switching of the molecule/dot spin due to a pulse of spin polarized current will also be considered.