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## Vortragsankündigung

**Donnerstag, den 29. November 2012, 17.15 h  
Hörsaal III, Physik-Department, Garching**

**Electronic properties of transition metal phthalocyanines:  
archetypes for organic semiconductors and molecular magnets**

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### **Abstract**

Transition metal phthalocyanines are a family of highly stable molecules, whose semiconducting properties are already used in industrial applications such as organic light emitting diodes or solar cells. In addition, they can harbor a number of transition metals in the center, which renders them molecular magnetic materials. As a consequence, they have been discussed also within the emerging field of molecular/organic spintronics. We have investigated the electronic properties of transition metal phthalocyanines and their interfaces using complementary spectroscopic techniques. It is shown that valuable information has been achieved with respect to the understanding of organic semiconductor interfaces, the magnetic ground state of the phthalocyanines as well as the formation of charge- and spin-transfer phthalocyanine couples.

*There will be coffee, tea, and cookies in front of the lecture hall at 17.00 h*