

## **Electron transport through single molecule magnets**

### **Abstract**

Single molecule magnets characterized by a large spin, a large longitudinal magnetic anisotropy barrier and transverse anisotropy terms have become famous in the last decade for showing quantum phenomena on a mesoscopic scale, the quantum tunneling of the magnetization.

We investigate how these unique molecular properties influence tunneling electrons in a transport setup in the regimes of weak and strong coupling between molecule and leads.