

Room: Media Room (Staudinger Weg 7: 03 – 431)

Time: Talk 11:00 st

Date: 14.09.2015

Frontier of Quantum Molecular Spintronics Based on Single-Molecule Magnets: Toward Green IT Innovation

Prof. Masahiro Yamashita

Department of Chemistry

Tohoku University/ Japan

Spintronics is based on the freedom of charge and spin of the electron. The inorganic bulk magnets are usually used in the spintronics so far. In my research on spintronics, we usually use the single-molecule magnets, which are new quantum nano-magnets in this century. In my lecture, I will focus on the single-molecule memory, Kondo effects, giant magnetoresistance (GMR), tunneling magnetoresistance (TMR), field effect transistor (FET), single-ion magnet encapsulated in carbon nano-tube, etc.

All interested are cordially welcome!

Dr. Frederick Casper
Tel.: 06131/39-24403
Email: spinnet@uni-mainz.de