



## “Recent progress on thermo and photo(spin) switching of molecular nanomaterials”

Prof. Yann Garcia (Université Catholique de Louvain, Belgium)

### Course contents:

The lecture starts by an introduction to spin crossover science and introduces structural optical/magnetic properties relationships effective in the solid state. Physical methods are also covered with a focus on Mössbauer spectroscopy applied to chemical applications, differential scanning calorimetry and muon spin relaxation methods. Approaches to develop photomagnetic nanosystems are developed with a special emphasis on solid state organic photo and thermostiches. Potential applications, including process developments and current trends in nanosciences are also discussed.

### Syllabus of the lecture:

1. Spin crossover phenomena
2. Applications of the Mössbauer effect to chemical applications
3. Muon spin relaxation spectroscopy of spin transition materials: insights to dynamic phenomena
4. Photoswitchable coordination compounds
5. Functional magnetic nanomaterials: hybrid systems and potential applications

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
2015-01-26	poniedziałek	12.00-15.00	Sala 115 IMP PAN
2015-01-27	wtorek	12.00-15.00	Sala 115 IMP PAN
2015-01-28	środa	12.00-15.00	Sala 115 IMP PAN
2015-01-29	czwartek	12.00-15.00	Sala 115 IMP PAN
2015-01-30	piątek	12.00-15.00	Sala 115 IMP PAN