"Recent progress on thermo and photo(spin) switching of molecular nanomaterials"

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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 developped with a special emphasis on solid state organic photo and thermoswitches. 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		Audytorium IMP PAN
2015-01-27	wtorek		Audytorium IMP PAN
2015-01-28	środa		Audytorium IMP PAN
2015-01-29	czwartek		Audytorium IMP PAN
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