

PDSTM2010

Program

6th February (Sat)

Chair Yutaka Moritomo

10:00-10:20 Opening Remarks

Hiroki Oshio (Univ. Tsukuba)

Osamu Shimomura (KEK)

10:20-11:00 IL-1 **Jean-François Létard** (Université Bordeaux 1, France)

What happens when t (liesst) reaches, or over passes $t_{1/2}$? An interplay between kinetically slow thermal transition and metastable high-spin state relaxation

11:00-11:40 IL-2 **Shinya Koshihara** (Tokyo Institute of Technology)

Dynamics of cooperative lattice-charge (spin) coupled phenomena induced by fs laser light irradiation studied by 100 ps time-resolved X-ray diffraction

11:40-12:20 IL-3 **Sébastien Pillet** (Nancy Université, France)

Dynamics of photo-induced crystallographic phase transition in spin crossover materials

12:20-13:40 *Photo and Lunch*

Chair Kosmas Prassides

13:40-14:20 IL-4 **Kamel Boukheddaden** (Université de Versailles, France)

New paradigm in the electronic and structural multistability of the photo-magnetic Prussian blue analog $K_{0.3}Co[Fe(CN)_6]_{0.77} \cdot 3.6H_2O$

14:20-15:00 IL-5 **Yutaka Moritomo** (University of Tsukuba)

Hole-doping and functionality of Prussian blue junction

15:00-15:40 IL-6 **Shunsuke Nozawa** (KEK)

Investigation of dynamic behavior in Prussian Blue analogs by Picosecond Time-Resolved XAFS

15:40-16:00 *Coffee Break*

Chair Hiroko Tokoro

16:00-16:40 IL-7 **Seiji Miyashita** (The university of Tokyo)

Cooperative dynamics and threshold phenomena with long-range interactions

16:40-17:20 IL-8 **Masamichi Nishino** (NIMS)

Nontrivial effects of the boundary condition for ordering in spin-crossover phenomena

17:20-18:40 *Poster Session*

7th February (Sun)

Chair **Shin-ichi Ohkoshi**

9:20-10:00 IL-9 **Kosmas Prassides** (University of Durham, UK)
Atypical responses of metal polycyanide networks to external stimuli

10:00-10:40 IL-10 **Kenichi Kato** (Sping8)
Molecular Interaction in Photo-Induced Phase Transition Materials visualized by electrostatic potential analysis

10:40-11:00 *Coffee Break*

Chair **Azzedine Bousseksou**

11:00-11:40 IL-11 **Marylise Buron** (Université de Rennes, France)
Probing consecutive steps of photoinduced switching dynamics by time-resolved X-ray diffraction in a Fe(III) spin-crossover material

11:40-12:20 IL-12 **Lionel Salmon** (CNRS Laboratoire de Chimie de Coordination, France)
Recent results on spin crossover nanoparticles

12:20-13:40 *Lunch*

Chair **Jean-François Létard**

13:40-14:20 IL-13 **Shin-ichi Ohkoshi** (The university of Tokyo)
Novel magnetic functionalities on cyano-bridged metal assemblies and ϵ -iron oxide

14:20-15:00 IL-14 **Corine Mathonière** (Université Bordeaux 1, France)
Photomagnetic mixed-valence compounds : Molecules and Nanoparticules

15:00-15:40 IL-15 **Barbara Sieklucka** (Jagiellonian University, Poland)
Magnetic properties vs. network dimensionality of cerium(III)-octacyanotungstate(V) compounds

15:40-16:00 *Coffee Break*

Chair **Corine Mathonière**

16:00-16:40 IL-16 **Azzedine Bousseksou** (CNRS Laboratoire de Chimie de Coordination, France)
Spin crossover molecular materials: from molecules to thin films to nanostructuration to devices

16:40-17:20 IL-17 **Koichiro Tanaka** (Kyoto University)
Dynamical separation of two coupled orders in the relaxation process from the photo-induced state in spin-crossover complex

17:20-18:00 IL-18 **Franz Renz** (University of Hannover, Germany)
Nitroprussiat combined with spin-crossover and other molecular switching effects

19:00-21:00 *Banquet*

8th February (Mon)

Chair Seiji Miyashita

9:20-10:00 IL-19 **Hiroko Tokoro** (The university of Tokyo)

Novel transition phenomena in cyano-bridged metal assemblies

10:00-10:40 IL-20 **Norimichi Kojima** (The university of Tokyo)

Concert phenomenon coupled with rapid spin equilibrium and charge transfer in iron mixed-valence system, $(C_nH_{2n+1})_4N[Fe(II)Fe(III)(mto)_3](n = 3, 4; mto = C_2O_3S)$

10:40-11:20 IL-21 **Hiroki Oshio** (University of Tsukuba)

Multiple bistability of metal complex systems

11:20-11:30 Concluding Remarks