



FRIMAT DAY 2016 – 7th of July

FRIMAT Day 2016 will take place in Péroilles 2, room A120

Final Scientific Program

8¹⁵ – 8²⁰ Welcome : B. Grobéty President Frimat

Research session 1

Session chair: B. Grobéty

8²⁰ – 8⁵⁰ O. Rifaie, AMI
Polymerisation as a tool for malaria diagnostic

8⁵⁰ – 9²⁰ D. Burnand, Chemistry Department
Poly(vinyl alcohol) as a biocompatible and versatile coating molecule for nanoparticles

9²⁰ – 9⁵⁰ A. Zenuni, Physics Department
Dense assemblies of fibroblast cells in suspensions

9⁵⁰ – 10²⁰ S. Colombo, Physics Department
Characterization of magnetic nanoparticles by means of atomic magnetometry

10²⁰ – 10⁴⁰ Coffee break

Research session 2

Session chair:

10⁴⁰ – 11¹⁰ St. Aebi, Physics Department
Photonic Bandgap Materials with Correlated Disorder

- 11¹⁰ – 11⁴⁰ E. Perret, Physics Department
Charge density wave in Nd_{1-y}(Ca_{1-x}Sr_x)_yMnO₃/YBa₂Cu₃O₇
heterostructures
- 11⁴⁰ – 12¹⁰ T. Jaouen, Physics Department Exciton confinement in 1T-
TiSe₂ charge density wave nanodomains by Ti self-doping
- 12¹⁰ – 12⁴⁰ P. Marsik, Physics Department
Terahertz Ellipsometry on Ultrathin Films
- 12⁴⁰ – 13⁵⁰ Lunch and poster presentation**
- 13⁵⁰ – 14⁰⁰ Poster award and closing remarks**

Poster program

- P1 Christoph Bisig, Pierre Comte, Jan Czerwinski, Andreas Mayer, Alke
Petri-Fink, Barbara Rothen-Rutishauser
Hazard assessment of Gasoline direct injection engine exhaust directly
exposed onto the surface of a 3D human lung model
- P2 Cédric Botter, Bernard Grobéty
SEM/TEM/EDS analyses of volcanic particles sampled over the
Erta'Ale lava lake, Ethiopia, using a remotely-controlled self-closing
sampler
- P3 Céline Calvino, Stephen Schrettl, Christoph Weder
Towards mechanochromic Materials Based on Non-Covalent
Interactions
- P4 Andrea Cerreta, Ivan Marozau, Laura Nuccio, and Christian Bernhard
Sprin polarized transport through multilayered superconducting
structures
- P5 Valentin Chabert, Katharina M. Fromm
Bacterial resistance to silver: The role of SilE protein
- P6 Paula Corcosa, Katharina Fromm
Creating bioinspired bimetallic complexes with silver and zinc for
synergistic antimicrobial activity
- P7 Michela Di Giannantonio, M. Ayer, E. Verde-Sesto, C. Weder,
Katharina M. Fromm
Ferrocene derivatives: new mechanophores for stimuli-responsive
materials
- P8 Anne-Cecile Ferahian, Sandor Balog, Christoph Weder, Lucas
Montero de Espinosa

Structure-property studies of isophthalic acid-pyridine (IPA-Py) based supramolecular polymers

- P9 Alba Finelli, Katharina M. Fromm
Multitopic precursors for oxide materials synthesis
- P10 Christoph Geers, Christophe Monnier, Federica Crippa, David Burnand, Marco Lattuada, Mathias Bonmarin, Alke Petri-Fink
A fast and objective approach to quantify the heating power of magnetic nanoparticles
- P11 Nelly Hérault, Veerabhadrarao Kaliginedi, Peter Broekmann, Katharina M. Fromm
TiO₂ nanocontainers and nanospheres as photocatalysts for photoelectrochemical water splitting
- P12 Karolina Korzeb, James Dolan, Ullrich Steiner, Ilja Gunkel
Controlled solvent annealing of triblock copolymer films: An in situ GISAXS study
- P13 Nazzani Francesco., Trappe Veronique
Characteristics of strong glass formers in charged microgel systems
- P14 L. Neumann, D. Balkenende, S. Coulibaly, S. Schrettl, B. Wilts, Y. Simon, C. Weder
The mechanoresponsive nature of metallo-supramolecular polymers
- P15 Sandy Sánchez, Antonio Abate
Inorganic materials for solar cells
- P16 Preston Sutton, M. Fischer, X. Hua, I. Gunkel, U. Steiner
Solid Polymer Electrolytes for Lithium Batteries
- P17 Milene Tan, Katharina M. Fromm
Design of poly(N-isopropylacrylamide)-silver nanocomposites for biomedical applications
- P18 Serhii Vasylevskyi, Prof. Katharina Fromm
Design of luminescent metal-organic frameworks (MOF's) of Zn(II) and Cd(II) with anthracene-based ligands
- P19 Jing Chen, Noémie Voutier, Katharina M. Fromm
Luminescence study of an anthracene derivative and its complexes with silver
- P20 Arbnor Zenuni
Dense assemblies of fibroblast cells in suspensions