

Scientific days of the Active Plasmonics GDR - Marseille July 10-12th

Day 1 Monday July 10th

- 14:45 *Registration desk opening*
- 15:30 Welcome introduction words by GDR
- 15:35 Organization and logistics - Jérôme Wenger
- 15:40 **Plenary: Beniamino Sciacca, CINaM**
Bottom-up plasmonic metasurfaces à la carte
- 16:15 **Wajdi Chaabani**, ITODYS, Paris
Self-Assembly of Anisotropic Plasmonic Nanoparticles in Confinement
- 16:35 **David Grosso**, CINaM, Marseille
Direct NIL patterning of sol-gel based metal oxides, with controlled refractive index from 1.2 to 2.7; applications in optics, photonics, and sensing
- 16:55 **Pascal Cheng**, ITODYS, Paris
Aluminum metasurfaces with high quality factors and spectral tunability
- 17:15 *Short Break*
- 17:30 **AfterConf event #1**
Fresnel-Arago experiment live demo
- 18:00 *End*

Day 2 Tuesday July 11th

- 8:45 *Registration desk opening*
- 9:15 **Plenary: Eric LeMoal, ISMO, Paris Saclay**
Plasmonics and nanophotonics with inelastic tunneling electrons
- 9:50 **Julien Gabelli**, LPS, Orsay
Role of optical rectification in photon-assisted tunneling current
- 10:10 **Ali Dabbous**, PPSM, Gif sur Yvette
Plasmon-mediated photoelectrochemical transformations of tetrazine derivatives followed by Fluorescence microscopy coupled with SEM

- 10:30 *Coffee Break*
- 11:05 **Sebastien Bidault**, Institut Langevin, Paris
DNA nanotechnology as a playground for plasmonics
- 11:25 **Prithu Roy**, Institut Fresnel, Marseille
Ultraviolet Resonant Nanogap Antennas from Rhodium Nanocubes for Enhancing Protein Intrinsic fluorescence
- 11:45 **Aicha Azziz**, IMMM, Le Mans
Observation of DNA strand interaction with SERS
- 12:05 **Peeranuch Pongriping**, CINaM, Marseille
Gap-plasmon crystallography
- 12:25 *Lunch break*
- 13:30 **AfterConf event #2 Round table discussion: soft skills in and outside science**
- 14:00 *Mini break restart*
- 14:10 **Plenary: Guillaume Baffou, Institut Fresnel**
Optical wavefront microscopy in nanophotonics and thermoplasmonics
- 14:45 **Celia Arib**, IMMM, Le Mans
Study of thermoplasmonic properties of AuNPs in visible and near infrared region
- 15:05 **Jean-François Bryche**, LN2, Sherbrooke
Heat Transfer inside Cross-shaped Nanoparticles
- 15:25 *Coffee Break*
- 16:00 **Ekaterina Podlesnaia**, IPHT, Jena
Optimizing the synthesis of gold nanotriangles and evaluating their potential in LSPR sensing
- 16:20 **Qiqian Liu**, IMMM, Le Mans
The Presence of Uncoated Nanoparticle Aggregates Determine the Phase of Phosphatidylcholine Lipids as Evidenced by Vibrational Spectroscopies

- 16:40 **Kartikey Pandey**, ITODYS, Paris
Surface Lattice modes for biosensing
- 17:00 **Benjamin Demirdjian**, CINaM, Marseille
FDTD calculations: a crucial tool to predict and interpret LSPR experimental results
- 17:20 *Short Break*
- 17:35 **AfterConf event #3 Effective communication for scientists: tips & tricks**
- 18:20 *End*

Day 3 Wednesday July 12th

- 9:15 **Plenary: Anne-Laure Baudrion, UTT, Troyes**
Nonlinear optical sensing in arrays of plasmonic nanoparticles
- 9:50 **Sarra Gam**, ITODYS, Paris
Molecular Imprinted polymer on plasmonic surfaces
- 10:10 **Jean-François Bryche**, LN2, Sherbrooke
Spatially-Localized Functionalization on Nanostructured Surfaces for Enhanced Plasmonic Sensing Efficacy
- 10:30 *Coffee Break*
- 11:05 **Igor Ozerov**, CINaM, Marseille
Fabrication of plasmonic metasurfaces for fluorescence nanoscopy
- 11:25 **Quanbo Jiang**, UTT, Troyes
Go beyond the limitations for trapping objects from micro to nanosize
- 11:45 **Jerome Wenger**, Institut Fresnel, Marseille
Improving single molecule fluorescence detection with zero-mode waveguides
- 12:05 **Scientific round table discussion: perspectives for active plasmonics**
- 12:35 Concluding words by GdR
- 12:40 *End*