

Thursday, 01 June 2023

★ 10:00 V01 - Nanoparticles: synthesis and interactions Luxembourg (Ground floor)

• Chairman : F. SCHEFFOLD (Fribourg, Switzerland)

10:00 • 2822 • Self-assembly of patchy colloids for photonics: colloidal diamond and chiral structures See abstract

> D. PINE (New York, United States)

10:45 • 2809 • Surface-topography quantification of DNA-functionalized colloids via super-resolution microscopy See abstract

> B. ROUHWAND (Eindhoven, Netherlands)

11:00 • 2810 • Patterned assembly of DNA coated colloids using UV/Blue light input See abstract

> B. MALHEIROS (Eindhoven, Netherlands)

11:15 • 2816 • Transient Binding Events on DNA Simulations See abstract

> R. RIVAS BARBOSA (Roma, Italy)

11:30 • 2821 • Probing temperature-responsivity of microgels by super resolution microscopy See abstract

> X. SHAULLI (Fribourg, Switzerland)

11:45 • 2813 • Unveiling the mechanism of laser trapping prepared Au nanoparticle swarming See abstract

> J-K. CHEN (Heverlee, Belgium)

★ 13:30 V02 - Super-resolution microscopy and nanoparticles Luxembourg (Ground floor)

• Chairman : P. ZIJLSTRA (Eindhoven, Netherlands)

13:30 • 2867 • tba See abstract

> B. PICHON (Strasbourg, France)

14:15 • 2819 • Super-resolution microscopy on nanoparticles: exploiting point-spread function deformations for precise localization See abstract

> T. HUIJBEN (Kongens Lyngby, Denmark)

14:30 • 2808 • Orienting single molecules in DNA origami constructs See abstract

> A. ADAMCZYK (Fribourg, Switzerland)

15:15 • 2814 • PSF distortion and mislocalization by dielectric nanoparticles in single-molecule microscopy See abstract

> M. FAHIM (Lyngby, Denmark)

15:30 • 2817 • Exploiting plasmon-fluorophore coupling for 3D localization microscopy See abstract

> S. MAHAJAN (Eindhoven, Netherlands)

15:45 • 2812 • Investigating proteins on the surface of nanoparticles with Cryo-Electron Microscopy See abstract

> I. HARLEY (Mainz, Germany)

★ 16:30 V03 - Biomedical applications of nanoparticles Luxembourg (Ground floor)

• Chairman : S. ROCHA (Leuven, Belgium)

16:30 • 2807 • Photosensitized nanoparticles for photodynamic therapy against cancer and microbial infections See abstract

> V. MARTÍNEZ-MARTÍNEZ (Bilbao, Spain)

17:15 • 2815 • Tracking the biological fate of functional nanoparticles in realistic cancer cell models: advances toward a more effective nanoparticle-based therapy See abstract

> P. CYBULSKI (Leuven, Belgium)

17:30 • 2820 • Nanoantenna enhanced single-molecule biosensing using transient DNA interactions See abstract

> V. LAMBERTI (Eindhoven, Netherlands)

17:45 • 2041 • Two-cycle Stöber protocol for the tailored synthesis and biotinylation of dual-color Silica Nanosystems for Biomedical Approaches See abstract

> M. RAMIREZ-MORALES (Lecce, Italy)

18:00 • 2811 • Tailoring polymer nanoparticle synthesis strategies to maximize the availability of reactive handles for covalent attachment of biomolecules See abstract

> F. MAZZOTTA (Mainz, Germany)

18:15 • 2818 • Cluster Based Immunoassay for Detection of Biomarkers See abstract

> S. GANDHI (Copenhagen, Denmark)