

**Biomechanics with optical tweezers**

*Nathalie Westbrook, Laboratoire Charles Fabry de l'Institut d'Optique, Palaiseau*

**Combining spectral domain and full field optical coherence tomography for macro-to-micro in vitro imaging**

*Salvatore Azzollini, Institut de la Vision, Paris*

**Using engineered droplets to decipher how extracellular matrix transmits mechanical forces**

*Nicolas Harmand and Olga Vasiljevic, Laboratoire Jean Perrin, Paris*

**Microstrip diamond detector for online monitoring during synchrotron microbeam radiotherapy**

*Jayde Livingstone, Laboratoire de Physique Subatomique et de Cosmologie, Grenoble*

**Polyethylene glycol based brushes for medical applications: Synthesis and anti-fouling properties**

*Larissa Dos Santos Silva Araujo, Laboratoire Interdisciplinaire de Physique, Grenoble*

**Stuart-Landau Oscillator Models Transitory Phase- Amplitude Change in Cyanobacterial Circadian Clocks**

*Irina Mihalcescu, Laboratoire Interdisciplinaire de Physique, Grenoble*

**Suggestions from a medical side effects studies**

*Chen Xiaohong, Laboratoire Interdisciplinaire Carnot de Bourgogne, Dijon*

**1-d self-assembly of complex elastic molecules**

*Pawat Akarapattana, Laboratoire de Physique Théorique et Modèles Statistiques, Orsay*

**Deciphering surface colonization by *Pseudomonas aeruginosa***

*Mathieu Letrou, Laboratoire Interdisciplinaire de Physique, Grenoble*

**Détecteur gamma rapide dédié au contrôle en ligne de la protonthérapie par mesure de temps de vol**

*Adélie André, Laboratoire de Physique Subatomique et de Cosmologie, Grenoble*

**Frustrated self-assembly with multiple particle types**

*Pietro Caracciolo Di Torella, Laboratoire de Physique Théorique et Modèles Statistiques, Orsay*

**How do blood cells land on the vessel wall: experiment on model systems and modelling**

*Delphine Débarre, Laboratoire Interdisciplinaire de Physique, Grenoble*

**Investigating the role of cell wall mechanics in the orientation of cell division in brown algae**

*Doron Grossman, Institut de Génomique Fonctionnelle de Lyon, Lyon*

**Living Droplets: Cell Spreading as a Wetting Problem**

*Ali Alhadi Wahhod, Laboratoire Interdisciplinaire de Physique, Grenoble*

**Nanometric glass structures for studying cell membrane deformations**

*Agathe Lermant, Idylle Labs, Paris*

**Nuclear volume reduction under mechanical stress regulates nucleolus**

*Kenny Elias, Institute for Advanced Biosciences, Grenoble*

**Quantitative analysis of the mechanical properties of healthy and cancer lung tissue for the design of mechano-mimetic culture substrates**

*Alice Nicolas, Laboratoire des Technologies de la Microelectronique, Grenoble*

**Self-limiting self-assembly of particles with complex interactions**

*Vincent Ouazan-Reboul, Laboratoire de Physique Théorique et Modèles Statistiques, Orsay*

**Unveiling microtubule fracture dynamics: A comprehensive examination of the influence of lattice defects on the stability of microtubules**

*Amir Zablotsky, Laboratoire Interdisciplinaire de Physique, Grenoble*