

December 17th, 2020 **Physics-Biology Interface**

Web conference

- ▶ 9:00am – 9:30am **Welcome**
- ▶ 9:30am – 10:10am Laser-Polarized xenon for biological applications: toward in vivo imaging - **Céline BOUTIN**, Iramis
- ▶ 10:10am – 10:50am Super-resolution microscopy to resolve the intimate organization of the synapse - **Eric HOSY**, Institut Interdisciplinaire de Neurosciences, Bordeaux
- ▶ 10:50am – 11:10am **Break**
- ▶ 11:10am – 11:45am Multiscale and multiphase organization of the transcriptome: insights from imaging and purification of endogenous RNA condensates - **Arnaud HUBSTENBERGER**, Institut de Biologie Valrose, Nice
- ▶ 11:45am – 12:20pm Complex dynamics and dynamic complexes: The essential role of intrinsic protein disorder studied by NMR spectroscopy - **Martin BLACKLEDGE**, Institut de Biologie Structurale, Grenoble
- ▶ 12:20pm – 13:00pm Selected short talks
- ▶ 13:00pm – 14:00pm **Lunch time**
- ▶ 14:00pm – 14:35pm Shaping lipid membranes with proteins and actin polymers: deciphering mechanisms with reconstituted systems, - **Patricia BASSEREAU**, Institut Curie, Paris
- ▶ 14:00pm – 14:35pm Shaping lipid membranes with proteins and actin polymers: deciphering mechanisms with reconstituted systems - **Patricia BASSEREAU**, Institut Curie, Paris
- ▶ 14:35pm – 15:10pm Elasticity from entanglements in branched actin - **Martin LENZ**, Laboratoire de Physique Théorique et Modèles Statistiques, Orsay
- ▶ 15:10pm – 15:50pm Selected short talks
- ▶ 15:50pm – 16:10pm **Break**

- ▶ 16:10pm – 16:45pm Spatial organization, dynamics and behaviour of single cells in complex communities - **Marcello NOLLMANN**, Centre de Biochimie Structurale, Montpellier
- ▶ 16:45pm – 17:20pm Real time control of gene expression and biological circuits - **Pascal HERSEN**, Institut Curie, Paris
- ▶ 17:20pm – 17:40pm Conclusions
- ▶ 17:40pm **Closure**

INSCRIPTION : <https://physicsbiology.sciencesconf.org>