

# Current Topics in Biophysics and Complex Systems

Lecture Series offered by the GGNB doctoral program  
"Physics of Biological and Complex Systems"

WiSe 2021/22 Friday 10:15 – 11:45 a.m.

- 29.10.2021 Dr. Andreas Neef, MPI for experimental Medicine  
*Information Processing in Neurons: Molecules to Networks*
- 05.11.2021 Dr. Johannes Soeding, MPI for Biophysical Chemistry  
*Introduction to Bioinformatics*
- 12.11.2021 Dr. Marco Tarantola, MPI for Dynamics and Self-Organization  
*Mechanics and Dynamics of Biological Adhesion*
- 19.11.2021 Prof. Dr. Markus Zweckstetter, MPI for Biophysical Chemistry  
*Liquid-Liquid Phase Separation: Physical Chemistry Meets Biology*
- 26.11.2021 Dr. Jost Kollmeier, MPI for Biophysical Chemistry  
*Dynamic Magnetic Resonance Imaging*
- 03.12.2021 Prof. Dr. Marcus Müller, Institute for Theoretical Physics  
*Coarse-Grained Modelling of Soft and Biological Matter*
- 10.12.2021 Prof. Dr. Fred Wolf, Campus Institute for Dynamics of Biological Networks  
*Phase Transitions in Neural Circuits*
- 17.12.2021 Prof. Dr. Helmut Grubmüller, MPI for Biophysical Chemistry  
*Molecular Dynamics Simulations of Complex Systems*
- 14.01.2022 Prof. Dr. Florentin Wörgötter, Third Institute of Physics  
*Deep Learning: Applications in Physics and its Pitfalls*
- 21.01.2022 Dr. Philip Bittihn, MPI for Dynamics and Self-Organization  
*Emergent Dynamics in Multicellular Aggregates*
- 28.01.2022 Dr. Stefan Glöggler, MPI for Biophysical Chemistry  
*Signal-Enhanced Magnetic Resonance to Study Biological Systems*
- 04.02.2022 Prof. Dr. Christian Griesinger, MPI for Biophysical Chemistry  
*Structure and Dynamics of Intrinsically Disordered Proteins Important in Diseases*
- 11.02.2022 Prof. Dr. Marina Bennati, MPI for Biophysical Chemistry  
*Electron Spins for Structure and Function of Biomolecules*

**Online Lecture**  
please register by email to  
[imprs-pbcs@gwdg.de](mailto:imprs-pbcs@gwdg.de)  
Open to all interested  
students and PhD candidates!

