



# Spring-School

## Soft Matter Characterization

**Scope:** Learn new experimental approaches in soft matter characterization – state of the art high resolution imaging techniques and scattering experiments developed and used on JGU campus. Exchange experience with experts and fellow students. Develop new ideas for your own Master, Ph. D., or Postdoc project.

**Date: 17.2. - 20.2.2020**

### Confirmed Speakers:

- S. Ritz:** Confocal Microscopy
- C. Cremer:** Super-Resolution Microscopy I: Point Scanning based Methods
- M. Gelleri:** Super-Resolution Microscopy II: Single Molecule Localization Microscopy (SMLM)
- S. Seiffert:** Diffusion Coefficients by Fluorescence Recovery
- T. Palberg:** Dynamic Light Scattering in Transparent and Turbid Media
- U. Kolb:** Electron Microscopy and Crystallography
- S. Weber & R. Berger:** Scanning Force Microscopy: From Atoms to IR spectra
- H. Elmers:** Scanning Tunelling Microscopy and Spectroscopy: Electronic Information with Atomic Resolution
- M. Kersten & M. Rücker:** Tomographic Imaging for Geology
- M. Mezger:** X-Ray Reflectometry
- M. Wand:** Deep Convolutional Neural Networks for Image Processing

### Evening Lecture:

- P. Baumann:** Meiosis in Unisexual and Bisexual Lizards

**Venue:** INNdependence Hotel Mainz,  
Gleiwitzer Str. 4, 55131 Mainz  
(close to Pariser Tor)  
<https://inndependence.de>

**Deadline for registration:** 6.1.2020

**Costs:** 350 € (all inclusive)

**E-mail for registration and abstract submission:** [reibel@uni-mainz.de](mailto:reibel@uni-mainz.de)

Students with contributions relevant to the scope of the school are encouraged to present them as **posters** (please mention at registration and provide an abstract)

### Organizers:

- T. Palberg ([palberg@uni-mainz.de](mailto:palberg@uni-mainz.de))
- R. Berger ([berger@mpip-mainz.mpg.de](mailto:berger@mpip-mainz.mpg.de))
- P. Blümmler ([bluemler@uni-mainz.de](mailto:bluemler@uni-mainz.de))