** SATELLITE WORKSHOP - Photon Science**

**15th Workshop on X-Ray Nano-Imaging of Biological and Chemical Systems at PETRA III**

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| **Tuesday, 21 January 2025** |  |
| The workshop gives attention to x-ray microscopy at various PETRA III beamlines with special emphasis on applications in biology and chemistry. Several scientific (multimodal) X-ray imaging highlights are presented with focus on the scanning X-ray microscopy beamlines P06, P10 and P05. Participants are encouraged to discuss future scientific opportunities for nano-imaging experiments at PETRA III and PETRA IV.The main part of the workshop is dedicated to presentations from our user community introducing the frontiers of data analysis to encourage lively discussions.  |

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|  Organisers: G. Falkenberg, F. Westermeier, C.G. Schroer | Contact: gerald.falkenberg@desy.de  |

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| **PROGRAMME**  |
|  |  |  | Chair: G. Falkenberg |
| 13:30 | Introduction |  | C.G. Schroer |
| 13:45 | Diamond-CRL, fast scanning mirrors and data analysis pipeline |  | K. Falch + J. Garrevoet |
| 14:15 | Nanoparticle distributions at sub- and cellular level |  | W. Parak |
| 14:45 | Optical and Electrical Nanoscopy of Semiconductor Devices |  | J. Barb |
| 15:15 | coffee break |  | Chair: F. Westermeier |
| 15:45 | Phase retrieval for full-field 3d imaging of biological tissues |  | Jens Lucht |
| 16:15 | Dynamic X-ray coherent diffraction analysis: Bridging the timescales between imaging and XPCS |  | Gerald Hinsley |
| 16:45 | A nanoscale view of the structure and deformation mechanism of mineralized shark vertebral cartilage |  | Vivian Merk |
| 17:15 | closing |  | C.G. Schroer |
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