

## **Poster list**

### **Wednesday, 27 January 2021**

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### **Thursday, 28 January 2021**

Poster session 2.1: Poster 185 - 245

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### III.1 European XFEL

1. MS-SPIDOC: Native mass spectrometry for single particle imaging  
*T. Kierspel, A. Kádek, K. Lorenzen and C. Uetrecht*
2. 3D printed microfluidic mixers and nozzles for structural biology  
*J. Knoska, R. Zahoor, M. Heymann, D. Oberthuer, P. Villanueva-Perez, G.E. Pena Murillo, S. Awel, L. Adriano, B. Sarler, S. Bajt and H.N. Chapman*
3. The SCS instrument optical laser delivery  
*L. Mercadier, R. Carley, R. Gort, N. Agarwal, C. Broers, J.T. Delitz, N. Gerasimova, D. Hickin, L. Le Guyader, G. Mercurio, A. Reich, J. Schlappa, M. Teichmann, B. Van Kuiken, A. Yaroslavtsev and A. Scherz*
4. Characterization of  $\mu\text{m}$ -focused FEL beam and MHz positional jitter at the SCS Instrument  
*G. Mercurio, C. Broers, R. Carley, J.T. Delitz, N. Gerasimova, L. Le Guyader, L. Mercadier, A. Reich, J. Schlappa, M. Teichmann, A. Yaroslavtsev, M. Cascella, K. Setoodehnia, M. Schneider, B. Pfau, S. Eisebitt, V. Vozda, V. Hajkova, L. Vysin, T. Burian, J. Chalupský, L. Juha, S.G. Alcock, I. Nistea, D. La Civita, D. Lomidze, A. Samartsev, M. Turcato, H. Sinn, M. Vannoni and A. Scherz*
5. Ultrafast dynamics in electronic band structure of optically excited epitaxial FeRh: X-ray absorption spectroscopy and density functional theory approach  
*N. Agarwal, L. le Guyader, J. Ander Arregi, R. Carley, A. Yaroslavtsev, I. Vaskivskiy, D. Turenne, R. Kurta, M. Izquierdo, G. Mercurio, L. Mercadier, R. Gort, N. Gerasimova, J. Schlappa, M. Teichmann, A. Reich, J.T. Delitz, C. Broers, M. Turcato, D. Lomidze, A. Samartsev, K. Setoodehnia, F. Erdinger, A. Castoldi, S. Maffessanti, M. Porro, S. Molodtsov, C. Back, H. Duerr, V. Uhler, A. Lichtenstein and A. Scherz*
6. Characterizing the structural landscape of a nanoparticle ensemble using single particle diffractive imaging  
*Y. Zhuang, A. Mall, T. Wollweber, P.L. Xavier, J. Bielecki, Z. Shen, B.J. Daurer, A.K. Samanta, S. Awel, R. Bean, A. Barty, T. Ekeberg, M. Bergemann, A.D. Estillore, K. Giewekemeyer, M.S. Hunter, M. Karnevskiy, R.A. Kirian, H. Kirkwood, H. Fangohr, Y. Kim, J. Koliyadu, H. Lange, R. Letruin, J. Lübke, T. Michelat, A.J. Morgan, N. Roth, T. Sato, M. Sikorski, F. Schulz, J.C.H. Spence, P. Vagovic, L. Worbs, O. Yefanov, F.R.N.C. Maia, D.A. Horke, J. Küpper, N.D. Loh, A.P. Mancuso, H.N. Chapman and K. Ayyer*
7. Femto-second holographic X-ray imaging with single FEL pulses  
*J. Hagemann, M. Vassholz, H. Hoeppe, M. Osterhoff, J.M. Rosselló, R. Mettin, F. Seiboth, A. Schropp, J. Möller, J. Hallmann, C. Kim, M. Scholz, U. Boesenberg, R. Schaffer, A. Zozulya, W. Lu, R. Shayduk, A. Madsen, C.G. Schroer and T. Salditt*
8. 2D Structure Determination via Fluctuation X-ray Scattering  
*T. Berberich, S. Molodtsov, A. Lichtenstein and R. Kurta*
9.  $\mu$ -second equilibrium and non-equilibrium dynamics probed at the European XFEL  
*F. Lehmkuhler, F. Dallari, A. Jain, M. Sikorski, J. Möller, L. Frenzel, I. Lokteva, G. Mills, M. Walther, F. Schulz, M. Dartsch, V. Markmann R. Bean, Y. Kim, P. Vagovic, A. Mancuso, A. Madsen and G. Grübel*
10. XFEL-Induced Synthesis of  $\epsilon$ -Iron Nitride at High Pressures  
*H. Hwang and Y. Lee on behalf of EuXFEL Community Proposal 2292*
11. The Unified Sample Workflow at the EuXFEL  
*C. Deiter, A. Kardoost and J. Schulz*

12. High spatial coherence and short pulse duration revealed by the Hanbury Brown and Twiss interferometry at the European XFEL  
*R. Khubbutdinov, N. Gerasimova, G. Mercurio, D. Assalauova, J. Carnis, L. Gelisio, A. Ignatenko, Y.Y. Kim, R. Kurta, D. Lapkin, O. Gorobtsov, A.P. Menushenkov, M. Scholz, A. Scherz and I.A. Vartanyants*
13. A Rapid Scanning Stage for the Instruments of the EuXFEL  
*C. Deiter, M. Kitel, E. Delmas and J. Schulz*
14. Simulations of Phonon Modes in Laser-Plasma Compressed Solids  
*O. Karnbach, P. Heighway, D. McGonegle, A. Comley, R. Rudd, G. Gregori and J. Wark*
15. Characterization of a laser-irradiated dense-plasma surface using a grazing-incidence X-ray scattering  
*M. Banjafar, L. Randolph, T.R. Preston, T. Yabuuchi, M. Makita, N.P. Dover, C. Rödel, S. Göde, Y. Inubushi, G. Jakob, J. Kaa, A. Kon, J.K. Koga, D. Ksenzov, T. Matsuoka, M. Nishiuchi, M. Paulus, F. Schon, K. Sueda, Y. Sentoku, T. Togashi, M. Vafae-Khanjani, M. Bussmann, T.E. Cowan, M. Kläui, C. Fortmann-Grote, A.P. Mancuso, T. Kluge, C. Gutt and M. Nakatsutsumi*
16. Reference-enhanced SPI with applications towards heterogeneity  
*A. Mall and K. Ayyer*
17. Monochromatic operation of the SASE3 beamline at European XFEL  
*N. Gerasimova, D. La Civita, L. Samoylova, M. Vannoni, R. Villanueva, R. Carley, R. Gort, L. Le Guyarder, D. Hickin, L. Mercadier, G. Mercurio, J. Schlappa, M. Teichman, A. Yaroslavtsev, A. Scherz and H. Sinn*
18. Pump-probe TR-SFX for Structural Dynamic Studies of Flexible Metal Organic Frameworks (MOFs) at the European XFEL  
*J.M. Martin-Garcia, J. Castells-Gil, J. Navarro and C. Marti-Gastaldo*
19. Observation of fluctuation-mediated picosecond nucleation of a topological phase  
*F. Büttner, B. Pfau, M. Böttcher, M. Schneider, G. Mercurio, C.M. Günther, P. Hessian, C. Klose, A. Wittmann, K. Gerlinger, L.-M. Kern, C. Strüber, C. von Korff Schmising, J. Fuchs, D. Engel, A. Churikova, S. Huang, D. Suzuki, I. Lemesh, M. Huang, L. Caretta, D. Weder, J.H. Gaida, M. Möller, T.R. Harvey, S. Zayko, K. Bagschik, R. Carley, L. Mercadier, J. Schlappa, A. Yaroslavtsev, L. Le Guyarder, N. Gerasimova, A. Scherz, C. Deiter, R. Gort, D. Hickin, J. Zhu, M. Turcato, D. Lomidze, F. Erdinger, A. Castoldi, S. Maffessanti, M. Porro, A. Samartsev, J. Sinova, C. Ropers, J.H. Mentink, B. Dupe, G. SD Beach and S. Eisebitt*
20. MooNpics – A European wide metrology round-robin test  
*S. Schmidtchen, I. Freijo Martin, M. Vannoni, E. Plönjes and H. Sinn*
21. F(ixed)GIPD - the only way of using AGIPD?  
*O. Yefanov, M. Galchenkova, D. Oberthuer and H.N. Chapman*
22. Surface dynamics of solids upon high intensity laser irradiation investigated by grazing-incidence x-ray scattering  
*L. Randolph, M. Banjafar, T. Preston, T. Yabuuchi, M. Makita, N. Dover, C. Rödel, S. Göde, Y. Inubushi, G. Jakob, J. Kaa, A. Kon, J. Koga, D. Ksenzov, T. Matsuoka, M. Nishiuchi, M. Paulus, F. Schon, K. Sueda, Y. Sentoku, T. Togashi, M. Vafae-Khanjani, M. Bussmann, T. Cowan, M. Kläui, C. Fortmann-Grote, A. Mancuso, T. Kluge, C. Gutt and M. Nakatsutsumi*
23. Optical Laser Capabilities and Applications at SPB/SFX  
*J. Koliyadu, R. Letrun, T. Sato, H. Kirkwood, J. Liu, M. Emons, T. Jezynski, N. Reimers, L. Lopez, C. Takem and A.P. Mancuso*
24. Reconstruction of 3D information from limited set of projections  
*O. Bernát*

25. The Effect of Intensity Fluctuations on Sequential X-ray Photon Correlation Spectroscopy at the X-ray Free Electron Laser Facilities  
*Y. Cao, D. Sheyfer, Z. Jiang, S. Maddali, H. You, B.-X. Wang, Z.-G. Ye, E.M. Dufresne, H. Zhou, G.B. Stephenson and S.O. Hruszkewycz*
26. Decreased Sample Consumption for Serial Femtosecond Crystallography with Electronically Induced Segmented Flow Injection  
*D. Doppler, M. Sonker, A. Egatz-Gomez, G. Nelson, J. Cruz Villarreal, R. Nazari, S. Zaare, D. Thifault, R. Fromme, S. Botha, T. Grant, P. Fromme, R. Kirian and A. Ros*
27. Liquid Jet Standardization and Characterization at European XFEL  
*J. Valerio and J. Schulz*
28. Time-resolved pump-probe experiments using the Pulsed Magnetic (PUMA) Field Setup at the MID Instrument  
*K. Kazarian, J. Moore, I. Lobato, K. Sukharnikov, C. Youngman, R. Schaffer, A. Zozulya, A. Rodriguez-Fernandez, U. Boesenberg, J. Hallmann, W. Lu, J. Moeller, M. Scholz, R. Shayduk, G. Gruebel and A. Madsen*
29. Optically driven control of 4f-spin and orbital state transitions in rare-earth metals  
*N. Thielemann-Kühn, T. Amrhein, W. Bronsch, S. Jana, N. Pontius, R.Y. Engel, P.S. Miedema, M. Beye, B.E. van Kuiken, M. Teichmann, R.E. Carley, L. Mercadier, A. Yaroslavtsev, G. Mercurio, L. Le Guyader, N. Agarwal, A. Scherz, P.M. Oppeneer, M. Weinelt and C. Schüssler-Langeheine*
30. Exploring stochastic XFEL pulses to study nonlinear X-ray processes  
*J. Szlachetko, W. Blachucki, J. Czapla-Masztafiak, A. Wach, J. Sa and Y. Kayser*
31. X-ray holography of laser-induced cavitation bubbles and shock waves with single FEL pulses  
*H.P. Hoeppe, M. Vassholz, J. Hagemann, J.M. Rosselló, M. Osterhoff, R. Mettin, T. Kurz, A. Schropp, F. Seiboth, C.G. Schroer, M. Scholz, J. Möller, J. Hallmann, U. Boesenberg, C. Kim, A. Zozulya, W. Lu, R. Shayduk, R. Schaffer, A. Madsen and T. Salditt*
32. CNN-based classification of diffraction patterns in Single Particle Imaging experiments  
*A. Ignatenko, F. Isensee, D. Assalauova, S.A. Bobkov, L. Gelisio, A.B. Teslyuk, V.A. Ilyin, SPI consortium @ LCLS, A. Aquila and I.A. Vartaniants*
33. Ultrafast probing of the atomic structure of supercooled liquid metals  
*J. Antonowicz, P. Zalden, K. Sokolowski-Tinten, C. Bressler, M. Chojnacki, G. Evangelakis, A.R. Fernandez, K. Fronc, W. Gawelda, K. Georgarakis, A.L. Greer, R.W.E. van de Kruijs, R. Kaminski, D. Khakhulin, D. Klinger, K. Kosyl, K. Kubicek, A. Olczak, P. Dziegielewski, N. Panagiotopoulos, M. Sikora, P. Sun, H. Yousef and R. Sobierajski*
34. SARS-CoV-2 Virion Samples for Single Particle Imaging at the European XFEL  
*D.V. Bagrov, G.S. Gluhov, M.G. Karlova, A.V. Moiseenko, D.S. Litvinov, M.P. Kirpichnikov, K.V. Shaitan, O.S. Sokolova, L.I. Kozlovskaya, A.A. Shishova, A.A. Kovpak, Y.Y. Ivin, A.N. Pinaeva, D.I. Osolodkin, A.A. Ishmukhametov and A.M. Egorov*
35. The SQS Scientific Instrument at the European XFEL: status and first results  
*T. Mazza, T. M. Baumann, R. Boll, A. De Fanis, S. Dold, P. Grychtol, M. Ilchen, A. Kishore, J. Montaña, V. Music, Y. Ovcharenko, N. Rennhack, D. Rivas, A. Rörig, P. Schmidt, S. Usenko, R. Wagner and M. Meyer*
36. Ultrafast soft X-ray absorption spectroscopy with shot-noise limited Beam-splitting off-axis zone plate scheme  
*L. Le Guyader, M. Beye, A. Eschenlohr, W. Schlotter, F. Döring, Ch. David, N. Agarwal, G. Mercurio, R. Carley, L. Mercadier, R. Gort, N. Gerasimova, J. Schlappa, M. Teichmann, A. Reich, A. Yaroslavtsev, B. van Kuiken, J-T. Delitz, C. Broers, D. Lomidze, A. Samartsev, K. Setoodehnia, F. Erdinger, A. Castoldi, S. Maffessanti, M. Porro, M. Turcato and A. Scherz*

37. SARS-CoV-2 Virion Samples for Single Particle Imaging at the European XFEL  
*D.V. Bagrov, G.S. Gluhov, M.G. Karlova, A.V. Moiseenko, D.S. Litvinov, M.P. Kirpichnikov, K.V. Shaitan, O.S. Sokolova, L.I. Kozlovskaya, A.A. Shishova, A.A. Kovpak, Y.Y. Ivin, A.N. Pinaeva, D.I. Osolodkin, A.A. Ishmukhametov and A.M. Egorov*
38. Femtosecond bond breaking and charge dynamics in ultracharged peptides  
*I. Eliah Dawod, N. Timneanu, A. Mancuso, C. Caleman and O. Grånäs*
39. Commissioning of the LPD Detector at the FXE Instrument  
*R.M. Wheeler, D. Doblaz Jimenez, M. Hart, D. Khakhulin, M. Kuster, C. Milne, M. Turcato, M. Veale, M. Wilson and H. Yousef*
40. Programmable DNA-Origami Molecular Scaffolds for Holographic Single-Particle Imaging  
*P.L. Xavier, N.C. Seeman and H.N. Chapman*
41. Femtosecond 3D Diffractive Imaging of Anisotropic Gold Nanoparticles with Soft X-ray Pulses at the EuXFEL  
*P.L. Xavier, K. Ayyer, J. Bielecki, A. Samanta, O. Yefanov, L. Gelisio, W. Brehm, F. Trost, A. Estillore, L. Worbs, J. Luebke, J. Knoska, Z. Meznar, S. Awel, G. Pena, H. Fleckenstein, L. Gumprecht, F. Maia, T. Ekeberg, A. Rode, Y. Ovcharenko, R. Boll, M. Ilchen, T. Bauman, S. Bajt, J. Kuepper, M. Meyer and H.N. Chapman*
42. Coherent Phonon Excitations in FePt Nanoparticles  
*D. Turenne, A. Yaroslavev, I. Vaskivkyi, M. Schneider, N. Zhou Hagström, J. Brock, D. Mukkattukavil, N. Agarwal, M. Guiseppe, B. Van Kuiken, V. Unni, R. Gort, R. Carley, Y. Takashi, S. Molodtsov, S. Eisebitt, A. Scherz, E. Jal, S. Bonetti and H. Dürr*
43. Coherent Correlation Imaging: High-resolution imaging of stochastic dynamics  
*C. Klose, F. Büttner, W. Hu, C. Mazzoli, I. Lemesh, J.M. Bartell, M. Huang, C.M. Günther, M. Schneider, A. Barbour, S.B. Wilkins, G.S.D. Beach, S. Eisebitt and B. Pfau*
44. Sample Environment for High Magnetic Field and Low Temperature at the MID Instrument  
*J.D. Moore, J. Schulz, A. Madsen and K. Kazarian*
45. Towards Direct Measurements of Temperature and Transport Properties in Warm Dense Matter: meV-IXS from single crystal diamond  
*A. Descamps, E.E. McBride, L.B. Fletcher, T.G. White, B. Witte, K. Appel, V. Cerantola, A. Comley, F. Condamine, C. Curry, J.H. Eggert, E. Galtier, M. Gauthier, D.O. Gericke, S. Goede, J. Hastings, O. Humphries, O. Karnbach, J.B. Kim, A. Lazicki, R. Loetzsch, D. McGonegle, G. Monaco, B. Nagler, B. Ofori-Okai, M. Oliver, C.A.J. Palmer, C. Plueckthun, T.R. Preston, R. Redmer, A. Rigby, C. Schoenwaelder, D.G. Senesky, C. Strohm, P. Sun, Th. Tschentscher, I. Uschmann, J.S. Wark, L. Wollenweber, U. Zastra, G. Gregori and S.H. Glenzer*
46. Beam conditioning X-ray optical components at the MID instrument of EuXFEL  
*A. Zozulya, U. Boesenberg, J. Hallmann, W. Lu, J. Moeller, A. Rodriguez-Fernandez, L. Samoylova, M. Scholz, R. Shayduk, M. Vannoni and A. Madsen*
47. The Femtosecond X-ray Experiments (FXE) Instrument of the European XFEL  
*P. Zalden, F. Ardana-Lamas, M. Biednov, D. Doblaz-Jimenez, W. Ehsan, P. Frankenberger, W. Gawelda, D. Khakhulin, M. Knoll, F. Otte, T.-K. Choi, Y. Jiang, F. Alves Lima, A. Rodriguez-Fernandez, V. Tiwari, H. Yousef and C. Milne*
48. Imaging Highly Charged Superfluid Helium Nanodroplets  
*A. Feinberg, R. Tanyag, F. Laimer, B. Senfftleben, M. Gatchell, S. O'Connell, S. Erukala, C. Saladrigas, B. Toulson, A. Hoffman, B. Kamerin, S. Dold, Y. Ovcharenko, T. Moeller, D. Rupp, O. Gessner, P. Scheier and A. Vilesov*
49. Machine Learning Powered by Principal Component Descriptors as the Key for Sorted Structural Fit of XANES  
*A. Martini, A.A. Guda, S.A. Guda, O.V. Safonova and A.V. Soldatov*

50. Understanding X-ray Absorption Spectra by Means of Descriptors and Machine Learning Algorithms  
*A.A. Guda, S.A. Guda, A. Martini, A.N. Kravtsova, A. Algasov, A. Bugaev, S.P. Kubrin, L.V. Guda and A.V. Soldatov*
51. Timing and X-ray pulse characterization at the Small Quantum Systems instrument of the European XFEL  
*P. Grychtol, D.E. Rivas, T.M. Baumann R. Boll, A. De Fanis, B. Erk, M. Ilchen, J. Liu, T. Mazza, J. Montaña, J. Müller, V. Music, Y. Ovcharenko, N. Rennhack, A. Rouzée, P. Schmidt, S. Schulz, S. Usenko, R. Wagner, P. Ziolkowski, H. Schlarb, J. Grünert, N. Kabachnik and M. Meyer*
52. Tracking equilibrium protein dynamics in solution using MHz X-ray Photon Correlation Spectroscopy  
*M. Reiser, A. Girelli, A. Ragulskaia, S. Das, S. Berkowicz, M. Bin, M. Ladd Parada, H. Poggemann, M.S. Akhundzadeh, A. Al-Masoodi, S. Timmermann, L. Randolph, Y. Chushkin, T. Seydel, U. Bösenberg, J. Hallmann, A. Madsen, J. Möller, A. Rodriguez-Fernandez, R. Rosca, R. Schaffer, M. Scholz, R. Shayduk, A. Zozulya, F. Schreiber, F. Zhang, F. Perakis and C. Gutt*
53. High-purity x-ray polarimetry for precision tests of fundamental physics  
*K.S. Schulze, B. Marx-Glowna, H. Bernhardt, B. Grabiger, R. Loetzsch, A.T. Schmitt, I. Uschmann, H.-P. Schlenvoigt, A.L. Garcia, L.G. Huang, Z. Konopkova, J.-P. Schwinkendorf, C. Strohm, T. Toncian, U. Zastra, T.E. Cowan, T. Stöhlker, R. Röhlberger and G.G. Paulus*
54. A hard X-Ray Split-and-Delay Unit for the HED Instrument at the European XFEL  
*D. Eckermann, S. Roling, M. Rollnik, K. Appel, L. Samoylova, H. Sinn, F. Siewert, Th. Tschentscher, F. Wahlert, U. Zastra and H. Zacharias*
55. New AGIPD Detectors and Developments for the European XFEL  
*J. Becker, A. Delfs, R. Dinapoli, S. Fridman, P. Göttlicher, H. Graafsma, D. Greiffenberg, H. Hirsemann, S. Jack, A. Klyuev, H. Krueger, M. Kuhn, S. Lange, T. Laurus, A. Marras, D. Mezza, A. Mozanica, J. Poehlsen, S. Rah, B. Schmitt, J. Schwandt, O. Shefer-Shalev, I. Sheviakov, X. Shi, S. Stern, U. Trunk and M. Zimmer*
56. Spatial incoherent diffraction via x-ray fluorescence  
*F. Trost, K. Ayyer and H. Chapman*
57. WavemiX: the international network for Nonlinear X-ray spectroscopies  
*C. Svetina, M. Beye, M. Chergui and C. Masciovecchio*
58. FEM heat load simulations of a cryo-cooled diamond channel cut monochromator for operation at the EuXFEL  
*K.R. Tasca, M. Vannoni, I. Petrov, D. La Civita, A. Rodriguez-Fernandez, A. Madsen, F. Yang and L. Samoylova*
59. Time-resolved spectroscopy at the SQS instrument: recent results  
*D.E. Rivas, T. Baumann, R. Boll, A. De Fanis, G. Geloni, P. Grychtol, M. Ilchen, J. Liu, T. Mazza, J. Montano, V. Music, Y. Ovcharenko, N. Rennhack, A. Rörig, P. Schmidt, S. Serkez, S. Usenko, R. Wagner and M. Meyer*
60. The two-color pump/probe setup at the European XFEL: first results  
*S. Serkez, D.E. Rivas, T. Baumann, R. Boll, A. De Fanis, W. Decking, L. Froehlich, N. Gerasimova, J. Grünert, P. Grychtol, M. Guetg, M. Huttula, M. Ilchen, S. Karabekyan, A. Koch, V. Kocharyan, Y. Koç, E. Kukk, J. Laksman, T. Maltezopoulos, T. Mazza, J. Montaña, V. Music, Y. Ovcharenko, N. Rennhack, A. Rörig, E. Saldin, P. Schmidt, E. Schneidmiller, M. Scholz, S. Tomin, S. Usenko, M. Vannoni, R. Wagner, T. Wohlenberg, M. Yurkov, I. Zagorodnov, G. Geloni and M. Meyer*
61. Karabo for Remote User Operation  
*G. Flucke, V. Bondar, C. Carinan, R. Costa, W. Ehsan, S. Esenov, R. Fabbri, D. Fulla Marsa, G. Giovanetti, D. Göries, S. Hauf, D. Hickin, A. Klimovskaia, A. Lein, J. Malka, D. Mamchuk, A. Parenti, R. Schaffer, A. Silenzi, D. Spruce, M. Staffehl, J. Szuba, K. Wrona and C. Youngman*

## III.2 FLASH

62. Studying dissociation dynamics of the diamondoid adamantane using XUV-pump-XUV-probe femtosecond pulses  
*J. Peschel, S. Maclot, J. Lahl, H. Wikmark, F. Brunner, S. Indrajith, P. Rousseau, B.A. Huber, S. Diaz-Tendero, N.F. Aguirre and P. Johnsson*
63. Adaptive automatic differentiation based ptychography at FLASH  
*K. Kharitonov, M. Mehrjoo, M. Ruiz-Lopez, B. Keitel, S. Kreis and E. Plönjes*
64. Momentum microscopy of non-equilibrium energy flow in ferromagnetic nickel  
*V. Shokeen, M. Heber, N. Wind, L. Wenthaus, F. Pressacco, S. Mahatha, D. Kutnyakhov, K. Rossnagel, X. Wang, A. Yaroslavtsev, I. Vaskivskiy, H.-J. Elmers, G. Schönhense and H. Dürr*
65. Laboratory based time- and momentum-resolved photoemission experiments using time-of-flight momentum microscopy with HHG source  
*M. Heber, D. Kutnyakhov, N. Wind, F. Pressacco, M. Martins and K. Rossnagel*
66. Suppression of the vacuum space-charge effect in  $f_s$ -photoemission by a retarding electrostatic front lens  
*N. Wind, G. Schönhense, D. Kutnyakhov, F. Pressacco, M. Heber, S.Y. Agustsson, S. Babenkov, D. Vasilyev, O. Fedchenko, S. Chernov, L. Rettig, B. Schönhense, L. Wenthaus, G. Brenner, S. Dziarzhytski, S. Palutke, S.K. Mahatha, N. Schirmel, H. Redlin, B. Manschwetus, I. Hartl, Y. Matveyev, A. Gloskovskii, C. Schlueter, V. Shokeen, H. Duerr, T.K. Allison, M. Beye, K. Rossnagel, H.J. Elmers and K. Medjanik*
67. Direct observation of charge separation in an organic light harvesting system by femtosecond time-resolved XPS  
*F. Roth, M. Borgwardt, L. Wenthaus, J. Mahl, S. Palutke, G. Brenner, G. Mercurio, S. Molodtsov, W. Wurth, O. Gessner and W. Eberhardt*
68. EUV highly-focusing optics characterisation  
*M. Mehrjoo, M. Ruiz-Lopez, B. Keitel, E. Ploenjes, E. Ribak, D. Alj, G. Dovillaire, L. Li and P. Zeitoun*
69. CAMP@FLASH - An End-Station for Imaging and Electron and Ion-Spectroscopy and Pump-Probe Experiments  
*B. Erk, C. Papadopoulou, Atia-tul-noor, C. Passow, D. Ramm, J. Correa and the CAMP Collaboration*
70. Probing structure and magnetic ultrafast dynamic profiles by time resolved X-ray Resonant Magnetic Reflectivity  
*V. Chardonnet, M. Hennes, R. Jarrier, R. Delaunay, J. Lüning, N. Jaouen, C. Leveille, X. Liu, D. Schick, K. Yao, C. Von Korff Schmising, M. Kuhlmann, B. Vodungbo and E. Jal*
71.  $I_0$  monitor for x-ray free-electron laser pulses in the nJ regime  
*S. Palutke, G. Brenner, S. Dziarzhytski, M. Sinha, H. Weigelt, K. Baev and S. Düsterer*
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*S. Palutke, K. Baev, S. Klumpp, M. Martins, M. Meyer, M. Richter, A.A. Sorokin, T. Wagner, N. Gerken, M. Kuhlmann, M. Ruiz-Lopez and K. Tiedtke*
73. Development of a differential pumping station with high pressure gradient for FLASH 2020+  
*M. Degenhardt, M. Braune, S. Aref, F. Jastrow and K. Tiedtke*
74. TRIXS – The end station for time-resolved resonant inelastic soft X-ray scattering experiments at the free-electron laser FLASH  
*S. Dziarzhytski, M. Sinha, H. Weigelt, P. Miedema, R. Engel, J. Schunck, M. Rübhausen, M. Beye and G. Brenner*
75. Molecular imaging with TimePix3  
*H. Bromberger, S. Trippel, B. Erk, C. Passow, M. Johny, L. He and J. Küpper*

76. A novel synchronized HHG source for VUV-XUV pump-probe studies at FLASH2  
*E. Appi, C.C. Papadopoulou, J. Mapa, N. Wesavkar, C. Jusko, P. Mosel, S. Ališauskas, T. Lang, C.M. Heyl, B. Manschwetus, M. Braune, M. Brachmanski, H. Lindenblatt, F. Trost, S. Meister, P. Schoch, R. Treusch, R. Moshhammer, I. Hartl, U. Morgner and M. Kovacev*
77. Endstation for time-resolved x-ray photoemission spectroscopy at FELs  
*L. Wenthaus, D. Kutnyakhov, S. Palutke, H. Meyer, S. Gieschen and M. Beye*
78. An open-source and end-to-end workflow for multidimensional photoemission spectroscopy  
*R.P. Xian, Y. Acremann, S.Y. Agustsson, M. Dendzik, K. Bühlmann, D. Curcio, D. Kutnyakhov, F. Presacco, M. Heber, S. Dong, T. Pincelli, J. Demsar, W. Wurth, Ph. Hofmann, M. Wolf, M. Scheidgen, L. Rettig and R. Ernstorfer*
79. FLASH2020+: THz beamline upgrade  
*R. Pan, S. Gang, M. Temme and E. Plönjes*
80. An XUV and soft x-ray split-and-delay unit for FLASH2  
*M. Dreimann, S. Roling, D. Eckermann, I. Zadyraka, M. Kuhlmann, E. Plönjes-Palm, F. Wahlert, F. Rosenthal, M. Wöstmann and H. Zacharias*
81. Temporal characterization of SASE XUV FEL pulses at FLASH  
*R. Ivanov, I.J. Bermúdez Macias, J. Liu, G. Brenner, N.M. Kabachnik, M.V. Yurkov and S. Düsterer*
82. Soft X-ray Absorption Near-Edge Spectroscopy using Split-Beam Normalization at FLASH  
*R.Y. Engel*
83. FLASH2020+: Features of a new endstation at THz beamline  
*S. Gang, M. Temme and R. Pan*
84. Observation of a highly conductive warm dense state of water with ultrafast pump-probe free-electron-laser measurements  
*Z. Chen, X. Na, C.B. Curry, S. Liang, M. French, A. Descamps, D.P. DePonte, J.D. Koralek, J.B. Kim, S. Lebovitz, M. Nakatsutsumi, B.K. Ofori-Okai, R. Redmer, C. Roedel, M. Schörner, S. Skruszewicz, P. Sperling, S. Toleikis, M.Z. Mo and S.H. Glenzer*

### III.3 Other/external/theory

85. Numerical experiments using neural network algorithms to determine 3D - protein structures from the data of X-ray laser radiation diffraction from single particles  
*K.V.Shaitan, M.A. Lozhnikov, V.N. Novoseletsky, G.A. Armeev, A.V. Kudryavtsev, G.M. Kobelkov, A.K. Shaitan and M.P. Kirpichnikov*
86. SARS-CoV-2 Virion Samples for Single Particle Imaging at the European XFEL  
*D. Bagrov, G. Gluhov, M. Karlova, A. Moiseenko, D. Litvinov, M.P. Kirpichnikov K.V. Shaitan, O.S. Sokolova, L. Kozlovskaya, A. Shishova, A. Kovpak, Y. Ivin, A. Pinaeva, D.I. Osolodkin, A.A. Ishmukhametov and A.M. Egorov*
87. Three-dimensional coherent X-ray imaging of twinned domains in CsPbBr<sub>3</sub> perovskite nanoparticles  
*D. Dzhigaev, L. Marcal, Zh. Zhang, S. Sala, A. Björling, A. Mikkelsen and J. Wallentin*
88. Probing the UV-induced photochemistry of the L-Cysteine disulfide in aqueous solution via femtosecond X-ray absorption spectroscopy  
*M. Ochmann, J. Harich, R. Ma, J.H. Lee, D. Nam, S. Kim, I. Eom, M. Kim, Y. Kim, M. Gopannagari, D.H. Hong, T.K. Kim and N. Huse*
89. Isochoric melting with a free-electron laser studied via molecular dynamics simulations  
*A. D'souza*
90. Analyzing XAS spectra of Ru complexes using machine learning approaches  
*E. Kozyr, A. Bugaev, A. Guda, S. Guda and A.V. Soldatov*



91. Contrast and noise in incoherent diffraction imaging  
*L.M. Lohse, M. Vassholz and T. Salditt*
92. Kinetics of water crystallization in the monoolein/hemoglobin system according to X-ray diffraction data  
*I. Baranova, A. Angelova, W. Shepard, J. Andreasson and B. Angelov*
93. Hanbury Brown and Twiss interferometry at PAL-XFEL  
*Y. Y. Kim, R. Khubbutdinov, J. Carnis, S. Kim, D. Nam and I.A. Vartanyants*
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*J. Correa, A. Marras, C.B. Wunderer, V.Vardanyan, S. Lange, F. Krivan, V. Felk, I. Shevyakov, M. Hoesch, K. Bagschik, N. Guerrini, B. Marsh, I. Sedgwick, G. Causero, D. Giuressi, R.H. Menk, L. Stebel, A. Greer, T. Nicholls, U. Pedersen, N. Tartoni, H.J. Hyun, K.S. Kim, S.Y. Rah, F. Orsini, A. Dawiec, F. Buettner, B. Pfau, R.Battistelli, E. Ploenjes, M. Mehrjoo, K. Kharitonov, M. Ruiz-Lopez, R. Pan, S. Gang, B. Keitel and H. Graafsma*
95. PaNOSC Data Analysis and Visualisation Services  
*S. Brockhauser on behalf of PaNOSC*
96. Coherent control in H<sub>2</sub> molecules with VUV FEL pulses at FERMI  
*F. Holzmeier, M. Lucchini, T. Baumann, R. Wagner, M. Meyer, C. Callegari, M. Di Fraia, K. Prince, O. Plekan, E. Roussel, A. Gonzalez-Castillo, A. Palacios, F. Martin and D. Doweck*
97. Effect of Sc admixing on the scintillation properties of in Lu<sub>3</sub>(Al,Ga)<sub>5</sub>O<sub>12</sub>:Pr Single Crystals  
*K. Bartosiewicz, T. Horiai, A. Yoshikawa, S. Kurosawa, A. Yamaji and Y. Zorenko*
98. Numerical experiments using neural network algorithms to determine 3D - protein structures from the data of X-ray laser radiation diffraction from single particles  
*K.V. Shaitan, M.A. Lozhnikov, V.N. Novoseletsky, G.A. Armeev, A.V. Kudryavtsev, G.M. Kobelkov, A.K. Shaitan and M.P. Kirpichnikov*
99. Imaging ultrafast dynamical diffraction wavefronts in strained Si with coherent X-rays  
*A. Rodriguez-Fernandez, A. Diaz, A.H.S. Iyer, M. Verezhak, K. Wakonig, M.H. Colliander and D. Carbone*
100. Ordering and Crystallization in Trisilanolcyclohexyl Polyhedral Silsesquioxane Induced by Lateral Compression at the Air-Water Interface  
*U. Panday and R. Banerjee*
101. Commissioning of a compact X-ray emission spectrometer for the AXSIS facility. Application for manganese-based catalysis.  
*V. Mazalova and P. Fromme*
102. Structure and Morphology driven Significant difference in Magnetic Behaviour of Nanoparticles and Nanofibers of o-h LuFeO<sub>3</sub>  
*S. Chaturvedi, P. Shyam, M. Shirolkar, B. Sinha, S. Krishna S and S. Ogale*
103. Avoiding glitches in x-ray spectrum caused by single-crystal optical elements  
*N. Klimova, O. Yefanov and A. Sniguirev*
104. The new CrystFEL Graphical User Interface  
*T.A. White*
105. Development of a 6-Axis Sample Manipulator in Cryogenic Application  
*F. Liu, F. Wang, H. Wang, Z. Liu and Y. Chen*
106. DESY computing infrastructure and platform as a service for EOSC and PaNOSC and ExPaNDS  
*M. Schuh, P. Fuhrmann, A. Barty, S. Brockhauser, Y. Kemp, J. Reppin, H. Abdul Salam and C. Voss*
107. Optimized nanoparticle injectors for single-particle diffractive imaging experiments  
*L. Worbs, J. Lübke, A.D. Estillore, S. Welker, M. Amin, A.K. Samanta and J. Küpper*

108. Imaging electron dynamics with attosecond x-ray pulses. Theory perspective  
*D. Gorelova*
109. Design of a proof-of-principle experiment on THz SASE FEL at PITZ  
*X.-K. Li, M. Krasilnikov, N. Aftab, P. Boonpornprasert, M.-E. Castro-Carballo, N. Chaisueb, G. Georgiev, J. Good, M. Gross, C. Koschitzki, O. Lishilin, G. Loisch, A. Lueangaramwong, D. Melkumyan, R. Niemczyk, A. Oppelt, H. Qian, H. Shaker, G. Shu, F. Stephan and G. Vashchenko*
110. Control of (bio-) nanoparticles with external fields  
*J. Lübke, L. Worbs, S. Welker, M. Amin, A. Estillore, A. Samanta and J. Küpper*
111. Few-cycle OPCPA at 2  $\mu\text{m}$  with up to 100 W average power  
*J.H. Buss, I. Grguras, T. Golz, M. Prandolini, M. Schulz and R. Riedel*
112. Flat field soft X-ray spectrometer on spherical reflection zone plates  
*J. Probst, A. Borowski, A. Sokolov, F. Siewert, C. Braig and A. Erko*
113. An advanced workflow for the single particle imaging with the limited data at an X-ray free-electron laser  
*D. Assalauova, Y.Y. Kim, S. Bobkov, R. Khubbutdinov, M. Rose, R. Alvarez, J. Andreasson, E. Balaur, A. Contreras, H. DeMirci, L. Gelisio, J. Hajdu, M.S. Hunter, R.P. Kurta, H. Li, M. McFadden, R. Nazari, P. Schwander, A. Teslyuk, P. Walter, P.L. Xavier, C.H. Yoon, S. Zaare, V.A. Ilyin, R.A. Kirian, B.G. Hogue, A. Aquila and I.A. Vartanyants*
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*T.F. Keller, H. Noei, V. Vonk and A. Stierle*
115. Coherent Control in H<sub>2</sub> molecules with VUV FEL pulses at FERMI  
*F. Holzmeier, M. Lucchini, T. Baumann, M. Meyer, C. Callegari, M. Di Fraia, K. Prince, O. Plekan, E. Roussel, H. Bachau, A. González-Castrillo A. Palacios, F. Martín and D. Dowek*
116. Understanding conformational dynamics from macromolecular crystal diffuse scattering  
*P. Mazumder and K. Ayyer*
117. CMWS - Centre for Molecular Water Science  
*C. Goy*
118. ExPaNDS - The Benefits of Open Data  
*K. Roarty*
119. First lessons learned from the Pandemic & Triggered prospective actions  
*A. Smekhova and A. Vollmer*
120. Corrosion investigation of Inconel 713C superalloy in helium environment  
*M. Duchna, I. Cieřlik, J. Ferenc, D. Moszczyńska and J. Mizera*
121. Luminescent properties of Lu<sub>2</sub>O<sub>3</sub>:Tb nanopowders under synchrotron radiation excitation  
*T. Zorenko, E. Zych and Yu. Zorenko*
122. Luminescent properties of R<sub>2</sub>SiO<sub>5</sub> (R= Y and Lu) single crystalline films under synchrotron radiation excitation  
*V. Gorbenko, T. Zorenko and Yu. Zorenko*
123. Multiple sequential ionization of outer shells of krypton by intense femtosecond XUV pulses  
*M. Kiselev, M. Popova, E. Gryzlova, A. Zubekhin and A. Grum-Grzhimailo*
124. Observation of shock-induced protein crystal damage during MHz serial femtosecond crystallography  
*M.L. Grünbein, L. Foucar, A. Gorel, M. Hilpert, M. Kloos, K. Nass, G. Nass Kovacs, C.M. Roome, R.L. Shoeman, M. Stricker, S. Carbajo, W. Colocho, S. Gilevich, M. Hunter, J. Lewandowski, A. Lutman, J.E. Koglin, T.J. Lane, T. van Driel, J. Sheppard, S.L. Vetter, J.L. Turner, R.B. Doak, T.R.M. Barends, S. Boutet, A.L. Aquila, F.-J. Decker, I. Schlichting and C.A. Stan*

125. In-situ Investigation of Sputter Deposition Electrodes on Different Layers of Non-Fullerene Organic Solar Cell  
*X. Jiang, S. Schaper, M. Gensch, M. Schwartzkopf, O. Polonskyi, T. Strunskus, J. Drewes, S.V. Roth and P. Mueller-Buschbaum*
126. Numerical experiments using neural network algorithms to determine 3D - protein structures from the data of X-ray laser radiation diffraction from single particles  
*K.V.Shaitan, M.A. Lozhnikov, V.N. Novoseletsky, G.A. Armeev, A.V. Kudryavtsev, G.M. Kobelkov, A.K. Shaitan and M.P. Kirpichnikov*
127. ExPaNDS - Understanding more about our Project  
*K. Roarty*
128. Nanoscale transient magnetization gratings created and probed by femtosecond extreme ultraviolet pulses  
*D. Ksenzov, A. A. Maznev, V. Unni, F. Bencivenga, F. Capotondi, A. Caretta, L. Foglia, M. Malvestuto, C. Masciovecchio, R. Mincigrucci, K.A. Nelson, M. Pancaldi, E. Pedersoli, L. Randolph, H. Rahmann, S. Urazhdin, S. Bonetti and C. Gutt*
129. Spatial-frequency features of the radiation produced by a stepwise tapered undulator  
*A. Trebushinin, S. Serkez, M. Veremchuk, Y. Rakshun and G. Geloni*
130. Longtime Return Current Pulse Model to explain the  $m=0$  Instability in Laser Plasma Interactions  
*L. Yang, L. Huang, H. Takabe, K. Zeil, M. Rehwald, T. Kluge, U. Schramm and T. Cowan*
131. Investigating mechanisms of state (de) localisation in highly ionized and dense plasmas  
*T. Gawne, P. Hollebon, G. Perez-Callejo, O. Humphries, J. Wark and S. Vinko*
132. Local structure in isomorphous  $\text{NiWO}_4\text{-ZnWO}_4$  solid solutions revealed by EXAFS Spectroscopy and Reverse Monte Carlo Simulations  
*G. Bakradze, A. Kalinko and A. Kuzmin*
133. Comparison of methods of resolution estimation for 3D reconstructions in single-particle imaging experiments on X-Ray free-electron lasers (XFELs)  
*K. Ikonnikova*
134. Local order determines dynamics close to the glass transition  
*F. Lehmkuhler, B. Hankiewicz, M.A. Schroer, L. Müller, B. Ruta, D. Sheyfer, M. Sprung, K. Tono, T. Katayama, M. Yabashi, T. Ishikawa, C. Gutt and G. Grübel*
135. Penning spectroscopy and structure of acetylene oligomers in He nanodroplets probed by EUV photons  
*S. Mandal, R. Gopal, M. Shcherbinin, A. D'Elia, H. Srinivas, R. Richter, M. Coreno, B. Bapat, M. Mudrich, S. R. Krishnan and V. Sharma*
136. X-Ray Measurements of Red Blood Cells in Continuous Flow and in an Optical Stretcher  
*J. Burchert, G. Brehm, R. Graceffa, M. Burghammer, S. August, R. Stange, F. Westermeier and S. Köster*
137. A community platform for just atomic calculations (JAC)  
*S. Fritzsche*
138. The geometry of Co(II) and Ni(II) and Cu(II) complexes with chlorophenoxy herbicides determined by XAS and UV-Vis spectroscopies  
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139. Laser-induced ultrafast insulator-metal transition in  $\text{BaBiO}_3$   
*A. Lukyanov, V. Neverov, Y. Zhumagulov, A. Menushenkov, A. Krasavin and A. Vagov*
140. A high-speed imaging detector for diffraction-limited SRs and CW-FELs  
*A. Marras, A. Klyuev, T. Laurus, D. Pennicard, U. Trunk, C.B Wunderer, T. Hemperek, T. Kamilar, H. Krueger, T. Wang and H. Graafsma*

141. Ultrafast time-resolved x-ray absorption spectroscopy of ionized urea and its dimer through *ab initio* nonadiabatic dynamics  
*Y. Shaky, L. Inhester, C. Arnold, R. Welsch and R. Santra*
142. Electronic and structural effects at the Zn K-edge by time-resolved X-ray absorption spectroscopy  
*T. C. Rossi, C. Dykstra, T. Haddock, R. Wallick, J. H. Burke, C. Gentle, G. Doumy, A.-M. March and R.M. van der Veen*
143. Observation of laser-excited THz phonon modes in orthorhombic MnAs via time-resolved x-ray diffraction  
*F. Vidal, Y. Zheng, L. Lounis, L. Coelho, C. Laulhé, C. Spezzani, A. Ciavardini, H. Popescu, E. Ferrari, E. Allaria, J. Ma, H. Wang, J. Zhao, M. Chollet, M. Seaberg, R. Alonso-Mori, J.M. Glowina, M. Eddrief and M. Sacchi*
144. Spontaneous cycloidal order mediating a spin-reorientation transition in a polar metal  
*C.D. Dashwood, L.S.I. Veiga, Q. Faure, J.G. Vale, D.G. Porter, S.P. Collins, P. Manuel, D.D. Khalyavin, F. Orlandi, R.S. Perry, R.D. Johnson and D.F. McMorrow*
145. Structural characterization of ClpP and PBPs from *Staphylococcus epidermidis* - central and vital enzymes in bacterial- virulence and stress survival and antibiotic resistance  
*B.A. Franca, M. Schwinzer, M. Perbandt and Ch. Betzel*
146. Kinematics of plasticity-induced texture evolution for uniaxial shock or ramp compression  
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147. Lab-based X-ray spectroscopy setup for measurements of liquid samples  
*R. Fanselow, W. Stańczyk, W. Błachucki, A. Wach, J. Czapla-Masztafiak, W. Kwiatek and J. Szlachetko*
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150. Superfluorescence of multilevel compact system: exact solution and stochastic modelling  
*V. Sukharnikov and A. Benediktovitch*
151. Status of the THz@PITZ Project - Beam Line Design and Instrumentation  
*T. Weilbach, P. Boonpornprasert, G.Z. Georgiev, M. Gross, G. Koss, M. Krasilnikov, X.K. Li, A. Luan-garamwong, F. Mueller, A. Oppelt, S. Philipp, H. Qian, F. Stephan and L. Van Vu*
152. Structure and design of electronic ink by X-ray scattering with synchrotron light  
*X. Li, Z. Liu, Z. Zhou, H. Gao, G. Liang, D. Rauber, C.W.M. Kay and P. Zhang*
153. PoFEL beamlines and latest development  
*K. Szamota-Leandersson, R. Nietubyć, P. Czuma, P. Krawczyk, J. Krzywiński, M. Staszczak, J. Szewinski, W. Bal, J. Poznanski, R. Kotuniak, A. Bartnik, H. Fiedorowicz, K. Janulewicz, P. Wachulak, N. Pałka, P. Zagrajek and J. Sekutowicz*
154. Ultrafast dynamics and scattering of organic liquids induced by XFELs  
*K. Patra, C. Coleman and N. Timneanu*
155. Multivariate curve resolution analysis of operando XAS data for the investigation of the lithiation mechanisms in high entropy oxides  
*F. Tavani, M. Fracchia, N. Pianta, P. Ghigna, E. Quartarone and P. D'Angelo*
156. Superionic states in compound insulators produced by extreme electronic excitation  
*R.A. Voronkov, N. Medvedev and A.E. Volkov*

157. In situ GISAXS/GIWAXS investigation of  $\beta$ -sheet mediated biotemplating in  $\text{TiO}_2$ : $\beta$ -lactoglobulin films during spray deposition  
*J.E. Heger, W. Chen, S. Yin, C.J. Brett, W. Ohm, S.V. Roth and P. Müller-Buschbaum*
158. Study of materials in the VUV  
*S. Espinoza, F. Samparisi, M. Zahradnik, M. Albrecht, O. Finke, R. Antipenkov, O. Hort, M. Rebarz, L. Poletto, J. Nejdil and J. Andreasson*
159. SARS-CoV-2 Virion Samples for Single Particle Imaging at the European XFEL  
*D. Bagrov, G. Gluhov, M. Karlova, A. Moiseenko, D. Litvinov, M. Kirpichnikov, K. Shaitan, O. Sokolova, L. Kozlovskaya, A. Shishova, A. Kovpak, Y. Ivin, A. Piniava, D. Osolodkin, A. Ishmukhametov and A. Egorov*
160. Imaging coupled electron-hole dynamics in molecules with time- and angular-resolved photoelectron spectroscopy  
*M. Reuner and D. Popova-Gorelova*
161. PETRA IV - The Ultimate 3D X-ray Microscope  
*R. Bartolini, Ch. G. Schroer, I. Agapov, K. Baev, K. Bagschik, A. Brauer, R. Brinkmann, M. Hüning, S. Klumpp, I. Pfeffer, O. Seeck, R. Wanzenberg, H.-C. Wille, W. Leemans and E. Weckert*
162. Influence of the SASE pulse's temporal profile to energy and time distribution of photoelectrons in water target  
*W. Blachucki and J. Szlachetko*
163. Role of the depolarization and decay of a quantum state on coherent control in bi-chromatic ionization  
*E.V. Gryzlova, M.M. Popova, M.D. Kiselev and A.N. Grum-Grzhimailo*
164. Examination of prospective chemotherapeutics with the use of the X-ray Absorption Spectroscopy  
*W. Stanczyk, J. Czapla-Masztafiak, J. Szlachetko, W. Blachucki, A. Wach, R. Fanselow and W.M. Kwiatek*
165. Study of crystal-field effects induced by thermal oxidation of titanium  
*A. Wach, K. Wojtaszek, W. Blachucki, K. Tyrala, M. Nowakowski, M. Zajac, J. Stepien, W. Stanczyk, J. Czapla-Masztafiak, W.M. Kwiatek and J. Szlachetko*
166. Perspectives for single-particle imaging of hydrated proteins with an X-ray Free-Electron Laser  
*J.C. E, M. Stransky, Z. Jurek, C. Fortmann-Grote, L. Juha, R. Santra, B. Ziaja and A.P. Mancuso*
167. Multimodal X-ray Imaging to investigate Breast cancer  
*A.L.C. Conceicao, S. Haas, M. Antoniassi, V. Müller, E. Burandt and M. Mohme*
168. Observation of water dynamics in the  $\text{Mg}^{2+}$  coordination at the active site in hen egg white lysozyme  
*D.B. Lee, E.J. Kim, K.H. Nam, J. Lee, J.D. Jo, J.H. Park, M.S. Hunter, S. Boutet, M.S. Chung and K.H. Kim*
169. The wayforlight portal for the users of European Light Sources  
*C. Blasetti and et al.*
170. Numerical experiments using neural network algorithms to determine 3D - protein structures from the data of X-ray laser radiation diffraction from single particles  
*K.V.Shaitan, M.A. Lozhnikov, V.N. Novoseletsky, G.A. Armeev, A.V. Kudryavtsev, G.M. Kobelkov, A.K. Shaitan and M.P. Kirpichnikov*
171. Single-Shot Absorption Spectroscopy at XFELs  
*M. Harmand, M. Cammarata, M. Chollet, A.G Krygier, H.T. Lemke and D.Zhu*
172. Customized 2D and 3D Multilayer Deposition on Flexible Length Scales  
*M. Ramin Moayed, K. Schlage, A. Siemens, C. Adolff, L. Bocklage, S. Willing, J. Lütjens, T. Gurieva and R. Röhlberger*

173. Activation procedure for Pt- and Pd-functionalized UiO-67 metal-organic framework  
*A.L. Bugaev, A.A. Skorynina, A.V. Soldatov, A. Lazzarini, U. Olsbye, K. P. Lillerud and S. Bordiga*
174. Denoising and Demasking Diffraction Patterns with Neural Networks  
*A. Bellisario and T. Ekeberg*
175. Polarization sensitive IR-pump X-ray-probe spectroscopy  
*J-C. Liu, V. Savchenko, V. Kimberg, M. Odellius and F. Gel'mukhanov*
176. X-ray-induced evolution of solids simulated with a hybrid MC/MD/DFTB approach  
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