

POSTERS SUBMITTED FOR THE POSTER SESSION  
User Meeting Plenary Session

Poster #	Name	First Name	Document Author(s)	Poster title
6	AGRESTINI	Stefano	S. Agrestini, C.-Y. Kuo, K. Chen, Y. Utsumi, D. Mikhailova, A. Rogalev, F. Wilhelm, T. Förster, A. Matsumoto, T. Takayama, H. Takagi, M. W. Haverkort, Z. Hu, and L. H. Tjeng	Probing the Jeff = 0 ground state and the Van Vleck paramagnetism of the Ir5+ ions in layered Sr2Co0.5Ir0.5O4
8	AKHKIAMOVA	Azaliia	Azaliia Akhkiamova*, Dimitri Ivanov, Alain Panzarella, Marie Capron, Peter van der Linden, Pierre Lloria, Martin Rosenthal, Diego Pontoni	Coupling lab-based AFMs with ultrafast in-situ Nanocalorimetry in view of building a lab-on-a-chip platform for characterization of nanogram-sized samples
33	AUMONIER	Sylvain	Sylvain Aumonier, Guillaume Gotthard, Gianluca Santoni, Gordon Leonard, David von Stetten, Antoine Royant	Towards millisecond monochromatic protein time-resolved X-ray crystallography at synchrotrons
81	AYALON	Elad	E. Ayalon, A. Cohen, A. Yosef-Hai, D. Levi-Hevroni, P. Fridman, A. Rack, M. P. Olbinado, D. Chapman, D. Eakins.	in-situ Radiography of Split Hopkinson Bar Dynamically Loaded Materials
59	BERRUYER	Camille	Camille Berruyer, Stéphanie Porcier, Paul Tafforeau	Investigation of an unusual Egyptian crocodile mummy by Synchrotron Microtomography
49	BOHIC	Sylvain	Florin Fus, Yang Yang, Hui Zhi Shirley Lee, Siden Top, Marie Carriere, Alexandre Bouron, Alexandra Pacureanu, Julio Cesar da Silva, Michele Salmain, Anne Vessiere, Peter Cloetens, Gerard Jaouen and Sylvain Bohic	Synchrotron radiation X-ray fluorescence nanoimaging reveal the intracellular localization of potent anticancer drug osmocenyl-tamoxifen derivative
41	BOLITHO	Elizabeth	E. M Bolitho, C. Sanchez-Cano, J. P. C. Coverdale, H. E. Bridgewater, P. Quinn, P. J. Sadler	Analysis of organo-osmium anticomplexes by nanofocussed XRF
76	BOUAMRANE	Faycal	Fayçal Bouamrane Paulo Da Silva	X-ray lithography and LIGA micro-structures for synchrotron beam lines
71	BOUDET	Nathalie	S. Arnaud, N. Blanc, N. Boudet, G. Chahine	BM02-D2AM a French CRG at the ESRF for Anomalous Diffraction and scattering in materials science

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62	BRAZ FERNANDES	Francisco Manuel	F.M. Braz Fernandes, E. Camacho, Y. El-Hachi, A.J. Cavaleiro, P. Sedmak, P. Inácio, T. Santos	Characterization of functionally graded wires of NiTi shape memory alloys
16	BROCCA	Paola	Paola Brocca, Emanuela di Cola, Valeria Rondelli, Massimo Aureli, Rosaria Bassi, Laura Cantù	Pathological lung mucus models and interaction with nanomedicines.
69	BRUETZEL	Linda	Jeff Davis, Julia Schmidt, Martin Huth, Linda Bruetzel, Heike Soltau, Lothar Strueder	High Speed, Simultaneous XRD-XRF Mapping with the Color X-ray Camera
12	CAPRON	Marie	M. Capron, A. Panzarella, A. Julien and D. Pontoni	Nano-scale mechanical properties of wood investigated by contact resonance atomic force microscopy
79	CELESTRE	Rafael	Rafael CELESTRE; Thomas ROTH; Sebastien BERUJON, Ray BARRETT;Manuel SANCHEZ DEL RIO	Compound refractive lenses: effects of figure errors on a partially coherent beam
45	CHAYANUN	Lert	Lert Chayanun, Gaute Otnes, Vilgailė Dagytė, Andrea Troian, Susanna Hammarberg, Damien Salomon, Magnus Borgström, Jesper Wallentin	Nanoscale mapping of carrier collection in single nanowire solar cells using X-ray beam induced current
73	COOK	Philip	Phil cook, Can Yıldırım, Mustafacan Kutsal, Karin Hüseyin, Karin Limburg, Yvette Heimbrand, Carsten Detlefs	Why are fish otoliths like tree trunks: An investigation of layered biomineral structures using DFXM, XRD, and XRF
43			J. C. da Silva, A. Silveira, K. Sauer, A. Lagrange, P. Cloetens, P. Zaslansky, B. Pokroy	Morphology and coarsening evolution of nanoporous gold characterized by Near-Field Ptychographic Tomography
44	DA SILVA	Julio Cesar	J. C. da Silva, A. Pacureanu, Y. Yang, S. Bohic, M. Salome, N. Blanc, G. Chahine, N. Boudet, J.-L. Hazemann, G. Beutier, F. Livet, P. Cloetens	Coherent X-ray nanoimaging at ID16A beamline of ESRF and prospects on French CRG beamlines
77	DACAPITO	Francesco	Francesco d'Acapito, Giovanni Orazio Lepore, Alessandro Puri, Alessio Laloni, Fabrizio La Manna, Eric Dettona, Aleksander De Luisa and Andrea Martin	The LISA beamline at ESRF
37	DE SAMBER	Björn	Björn De Samber, Nathalie Uwamahoro, Stijn Van Malderen, Linda Sandblat, Sylvain Bohic, Peter Cloetens, Constantin F. Urban, Laszlo Vincze	Nanoscale Chemical Imaging of Phagocytosis: A Battle for Metals between Host and Microbe
21	DEPERNET	Hadrien	Hadrien Depernet, Guillaume Gotthard, Sylvain Aumonier, Gordon Leonard, Antoine Royant.	Structural characterization of near infrared and GFP-like fluorescent proteins

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66	DRNEC	Jakub	Isaac Martens, Antony Vamvakeros, Raphael Chattot, Janne Pusa, Veijo Honkimaki, Dan Bizzotto, Simon Jacques, Federic Maillard and Jakub Drnec 1,*	From Atoms to Electrochemical Devices: Multiscale Characterization of an Operating Fuel Cell.
56	FANTIN	Andrea	A. Fantin, A. Manzoni, S. Kasatikov, G. O. Lepore, A. Puri, T. Scherb, G. Schumacher, J. Banhart, F. d'Acapito	From chaos to order: local structure in compositionally complex alloy Al <sub>8</sub> Co <sub>17</sub> Cr <sub>17</sub> Cu <sub>8</sub> Fe <sub>17</sub> Ni <sub>33</sub>
11	FARDIN	Luca	L. Fardin, L. Broche, G. Lovric, A. Mittone, A. Larsson, A. Bravin, S. Bayat	High-resolution dynamic lung imaging for elucidating the mechanisms of Ventilator-induced lung injury
53	FAVRE-NICOLIN	Vincent	Vincent FAVRE-NICOLIN	PyNX: the ESRF accelerated Coherent Imaging toolkit
18	FERNANDEZ MARTINEZ	David	David Fernandez-Martinez, Eaazhisai Kandiah, Magali Mathieu, Gordon Leonard	Structural studies of multispecific Antibody/Antigen complexes by cryo-EM
26	FERRER	Jean-Luc	J-L Ferrer, Y Sallaz-Damaz, C Berzin, P Jacquet, P Israel-Gouy, X Vernede, M Budayova-Spano, D Cobessi, F Borel	From FIP to FP2: a post-EBS automated beamline designed for a large range of macromolecular crystallography experiments
29	FOOS	Nicolas	N.Foos, U.Zander, C.Zubieta, G.Leonard, M.Nanao	Using Genetic Algorithm to Separate the wheat from the chaff
23	GARCIA-SAEZ	Isabel	I. Garcia-Saez, H. Menoni, R. Boopathi, M. S. Shukla, L. Soueidan, M. Noirclerc-Savoie, A. Le Roy, D.A. Skoufias, J. Bednar, A. Hamiche, D. Angelov, C. Petosa, S. Dimitrov	Chromatin structure & plasticity: structure of one and six nucleosomes bound to linker histone H1
42	GIRARD	Gaetan	Gaetan Girard	High-resolution imaging of strained nanostructures
20	GOTTHARD	Guillaume	Guillaume Gotthard, Joaquim Torra, Céline Lafaye, Luca Signor, Sylvain Aumonier, Cristina Flors, Xiaokun Shu, Santi Nonell, Antoine Royant	Tailing miniSOG: Structural Bases of the Complex Photophysics of a Flavin-Binding Singlet Oxygen Photosensitizing Protein
52	GRAMACCIONI	Chiara	C. Gramaccioni, Y.Yang, A. Pacureanu, A. Procopio, P. Valenti, L.Rosa, F. Berlutti, S. Bohic and P. Cloetens.	Nanoimaging of single human macrophage cells: 3D structural and chemical quantification.

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28	GRAY	Melissa	Melissa Gray	Nanotube Self-Assembly by DNA Minor Groove Binding Ligand DB921 via Alkali Halide Triggering
36	JOHANNES	Andreas	Andreas Johannes, Tilman Gruenewald, Martin Rosenthal, Carsten Ronning, Manfred Burghammer	Nano-Diffraction Imaging on VO <sub>2</sub> Microwires
35	JOITA PACUREANU	Alexandra	Alexandra Pacureanu, Jasper Maniates-Selvin, Aaron Kuan, Peter Cloetens, Wei Allen Lee	X-ray holographic nano-tomography to resolve neural circuits
63	KALANTZOPOULOS	Georgios	Georgios N. Kalantzopoulos, Daniel Rojo Gama, Dimitrios K. Pappas, Unni Olsbye, Karl Petter Lillerud, Pablo Beato, Lars F. Lundegaard*, David S. Wragg and Stian Svelle*	Real-time regeneration of a working zeolite monitored via operando space resolved X-ray diffraction & X-ray tomography: How coke flees the MFI framework
38	KIM	Chan	Chan Kim, Virginie Chamard, Jörg Hallmann, Thomas Roth, Wei Lu, Ulrike Boesenberg, Alexey Zozulya, Steven Leake, and Anders Madsen	Three-dimensional visualization of phase-ordering in an Fe-Al alloy by coherent X-ray Bragg ptychography
34	KRUPYANSKIY	Yury	Krupyanskiy Y., Loyko N., Kovalenko V., Tereshkina K., Sokolova O., Popov A.	CONDENSATION OF NUCLEOID IN ESCHERICHIA COLI CELLS AS A RESULT OF STARVATION.
post deadline			Y.Krupyanskiy, et al.	In cellulo nanocrystallization of nucleoid in bacteria and spores
post deadline			Krupyanskiy Y., et al.	Nanocrystallization of bacteria under stress
3	LA PORTA	Francesco	La Porta Francesco	In situ measurements of liquid copper catalyst for graphene growth
19	LABESSE	Gilles	Gilles Labesse, Muriel Gelin, Jean-François Guichou, Corinne Lionne	Structural enzymology to unravel conformational intermediates in therapeutic targets
75	LAPRAS	Christophe	C.Lapras, R. Verbeni, R. Barrett	CAL: The Crystal Analyser Laboratory
64	LEPORE	Giovanni Orazio	Luke L. George, Cristian Biagioni, Giovanni Orazio Lepore, Maria Lacalamita, Massimo D'Orazio, Giovanna Agrosi, Gian Carlo Capitani, Elena Bonaccorsi, Francesco d'Acapito.	The speciation of thallium in (Tl,Sb,As)-rich pyrite
70	LEVENSTEIN	Mark	Mark A. Levenstein, Clara Anduix-Canto, Yi-Yeoun Kim, Carlos González Niño, Manfred Burghammer, Nikil Kapur, and Fiona C. Meldrum	Evaluation of Nucleating Agents with a Microfluidic Serial Powder Diffraction Technique

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post deadline	LODINSKY	Eszter	Eszter Valeria Lodinsky Martine Moulin Edward Mitchell Trevor Forsyth Michael Haertlein Maria Papathanasopoulos	Crystallographic studies of Wild Type HIV-1 Subtype C Integrase and Drug Resistant Mutant Strains for Structure Determination
32	MATIAS	Pedro	Sónia Zacarias, Adriana Temporão, Philippe Carpentier, Inês A. C. Pereira, Pedro M. Matias	O <sub>2</sub> access to the active site of the [NiFeSe] hydrogenase from <i>Desulfovibrio vulgaris</i> Hildenborough
4	MATSARSKAIA	Olga	Alessandro Greco, Alexander Hinderhofer, Ibrahim Dar, Neha Arora, Jan Hagenlocher, Andrey Chumakov, Michael Grätzel, Frank Schreiber	Kinetics of Ion-Exchange Reactions in Hybrid Organic–Inorganic Perovskite Thin Films Studied by In Situ Real-Time X-ray Scattering
5			Giuliano Duva, Linus Pithan, Alexander Gerlach, Alexander Janik, Alexander Hinderhofer, Frank Schreiber	Smoothing of molecular semiconductor thin films by admixing of a strong acceptor. A real-time in situ study using X-ray scattering
15			Olga Matsarskaia, Stefano Da Vela, Felix Roosen-Runge, Gudrun Lotze, Johannes Möller, Alessandro Mariani, Fajun Zhang, Frank Schreiber	Fine-tuning protein phase separation by multivalent ions: A (TR-U)SAXS study
68	MICHAUD	Laurent	L. Michaud, C. Castan, P. Montméat, L. Gonon, V. H. Mareau, F. Fournel, S. Tardif, F. Rieutord	In Situ high strain measurement in silicon ultra-thin film on polymer
9	MUERER	Fredrik Kristoffer	F. K. Mürer, B. Chattopadhyay, A. Madathiparambil, K. R. B. Tekseth, M. Di Michiel, R. Mathiesen, K. Olstad, M. B. Lilledahl, D. W. Breiby	3D imaging of bone and cartilage by X-ray phase-contrast and tensorial diffraction tomography
post deadline	NEWBY	Emma	Emma Newby, Florent Bernaudat, Michael Lerche, Cyril Dian, Adam Round, Trevor Forsyth and Gordon Leonard.	Structural studies of the LysR transcription factor DntR in complex with promoter region DNA.
10	NICOLAS	Jan-David	Jan-David Nicolas, Marten Bernhardt, Susanne Schlick, Malte Tiburcy, Wolfram-Hubertus Zimmermann, Amara Khan, Frauke Alves, Karl Toischer, Paul Lingor, Karina Joppe, Tim Salditt	Multiscale X-Ray Analysis of Biological Cells and Tissues by Scanning Diffraction and Coherent Imaging

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67	OHSER	Joachim	Joachim Ohser, Dascha Dobrovolskij, André Liebscher, Claudia Redenbach, Sebastian Osteroth, Konrad Steiner, Joachim Schwämmle, Peter Menstell, Petra Haas	Analysis, Modelling and Simulation of Chromatographic Separation Processes
1	ORNEK	Cem	Cem Örneke, Marie Långberg, Jonas Evertsson, Gary Harlow, Weronica Linpé, Lisa Rullik, Francesco Carlà, Roberto Felici, Eleonora Bettini, Ulf Kivisäkk, Edvin Lundgren, Jinshan Pan	In-situ Synchrotron X-ray Study of Passive Film Degradation on Duplex Stainless Steel in Corrosive Environment
57	PETIT	Antoine	Antoine Petit, Samuel Tardif, Sylvia Pokam, Frédéric Mazon, François Rieutord	Imaging of dynamic fracture propagation in light-ion implanted Si wafers on ID19
58			Antoine Petit, Samuel Tardif, Tao Zhou, Frédéric Mazon, Joel Eymery, François Rieutord	In situ Full-Field Diffraction X-ray Microscopy of microcracks in light-ion implanted Si wafers on ID01
65	PETROV	Ilia	Liubov Samoylova, Ulrike Boesenberg, Aleksandr Chumakov, Vladimir Kaganer, Ilia Petrov, Thomas Roth, Rudolf Rüffer, Harald Sinn, Sergey Terentyev and Anders Madsen	Diffraction properties of a strongly bent diamond crystal used as dispersive spectrometer for XFEL pulses
39	PLASS	Christian	C. Plass, M. Ritzer, P. Schöppe, S. Schönherr, A. Johannes, G. Martínez-Criado, P. Jackson, R. Würz, C. S. Schnorr, C. Ronning	Combined In-Operando XBIC and XRF Nanoimaging on Cu(In,Ga)Se <sub>2</sub> Solar Cells with Rb Post Deposition Treatment
31	PONGRAC	Paula	Paula Pongrac, Mina T. Villafort Carvalho, Tânia S. Serra, Hiram Castillo-Michel, Katarina Vogel-Mikuš, Iztok Arčon, Luka Jeromel, Mitja Kelemen, Boštjan Jenčič, Anja Kavčič, Primož Vavpetič, Primož Pelicon in Mark G. M. Aarts	Cadmium localization and chemical environment in a cadmium bioindicator Gomphrena clausenii
51	PRADAS DEL REAL	Ana Elena	A.E. Pradas del Real, A. Pérez-Sanz, P. García-Gonzalo, H. Castillo-Michel, M.J. Gismera, M.A Vicente1 M.C Lobo	Cr stabilization in soils: dependence of pollution source and soil characteristics

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55	RACK	Alexander Oliver	A. Rack, E.Boller, V. Fernandez, M. P. Olbinado, P. Tafforeau	The refurbished ID19 beamline: a versatile station for synchrotron-based (time-resolved) full-field hard X-ray microimaging
2	REVENANT	Christine	C. Revenant	Anomalous grazing-incidence small-angle X-ray scattering
48	RITZER	Maurizio	Spatially resolved distribution and structure of Ge in Cu <sub>2</sub> ZnSnSe <sub>4</sub> thin film solar cells	Maurizio Ritzer, Sven Schönherr, Christian Plass, Philipp Schöppe, Andreas Johannes, Sergio Giraldo, Galina Gurieva, Gema Martínez-Criado, Susan Schorr, Edgardo Saucedo, Claudia S. Schnohr, Carsten Ronning
13	ROMANO	Mariele	Mariele Romano, Giacomo E. Barbone, Alberto Mittone, Stefan Bartzsch, Lucie Sancey, Alberto Bravin, Paola Coan	High resolution X-ray phase contrast imaging for studying MRT effects on 9L glioblastoma in rats
47	ROSENTHAL	Martin	Martin Rosenthal, Edward T. Samulski, Manfred Burghammer and Dimitri A. Ivanov	Chiral polymer crystals: beyond Left and Right
14			Aleksey Melnikov, Martin Rosenhal and Dimitri A. Ivanov	Heating-Rate versus Crystallization-Temperature Reorganization Diagram (HR-CT-R) for Thermal Analysis of Semicrystalline Polymers
78	SANCHEZ DEL RIO	Manuel	Manuel Sanchez del Rio and David Paganin	Coherence vortices in the Cross Spectral Density. Something to consider in diffraction and imaging?
74	SHEPPARD	Thomas	Johannes Becher, Thomas Sheppard, Debora Motta Meira, Dario Ferreira Sanchez, Dmitry Doronkin, Sakura Pascarelli, Jan-Dierk Grunwaldt	Operando Spectrotomographic 3D Imaging of Heterogeneous Catalysts with Energy-Dispersive XAS
24	TEWS	Ivo	Tews I	Towards low dose serial crystallography applications
25			Moritz M. Machelett†, Despo Polyviou‡, Andrew Hitchcock, Alison J. Baylay, Fraser MacMillan, C. Mark Moore, Thomas S. Bibby and Ivo Tews	Iron homeostasis on marine cyanobacteria of global significance
82	TORCHIO	Raffaella	R.Torchio and N. Sevelin-Radiguet	High Power Laser Facility coming to life

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27	TULLY	Mark	Mark Tully, Martha Brennich and Petra Pernot	THE RISE OF BIOSAXS AT THE ESRF: BEAMLINE BM29
80	VERBENI	Roberto	R. Verbeni, C. Lapras	CAL production for multi-analyser crystal spectrometers at the ESRF
72	VIGANO	Nicola	Nicola Viganò, Wolfgang Ludwig	Orientation resolved Topo-tomography, and super-resolved multi-modal 3D orientation reconstructions
46	VLASOVA	Mariia	Mariia Vlasova, D. A. Ivanov, M. Burghammer, and M. Rosenthal	Fast chip calorimetry combined with millisecond time resolved X-ray micro diffraction @ID13: PEEK double-melting behavior
50	YANG	Yang	Yang Yang, Kejie's Student, Kai Zhang, Sang-Jun Lee, Linqin Mu, Crystal K. Walters, Stephanie Spence, Zhengrui Xu, Chenxi Wei, Qingxi Yuan, Young-Sang Yu6, Xianghui Xiao, Piero Pianetta, Peter Cloetens, Jun-Sik Lee, Kejie Zhao, Feng Lin, Yijin Liu	Hierarchically Heterogeneous Electro-Chemo-Mechanical Coupling Effects in Composite Battery Electrodes
60	YILDIRIM	Can	C. Yildirim, N. Mavrikakis, P.K Cook, H.F. Poulsen, W. Saikaly, , A. Vaugeois, M. Kutsal, R.Hubert, M. Gauvin and C. Detlefs	Dark Field X-ray Microscopy of the Interaction of Sn with Dislocations in Recovery of Deformed Fe-Si alloys
61			C. Yildirim, D. Brellier, E. Gout, A. Pagot1, T.N. Tran Thi Caliste, J. Baruchel, and P. Ballet	BRAGG DIFFRACTION IMAGING OF CdZnTe SINGLE CRYSTALS
40	ZATTERIN	Edoardo	E. Zatterin, M. Hadjimichael, S. J. Leake, P. Zubko	Switching of ferroelectric superdomains probed in-situ by X-ray nanodiffraction