

S/N	Proposal No.	Performed Proposal Title	Project Leader	Affiliation	Country	Type of Proposal	Beamline	Performed Shift
1	2017B8001	Direct observation of soft phonon mode dynamics in SrTiO ₃ through time-domain analysis of stimulated x-ray thermal diffuse scattering	Tai Chiang	University of Illinois	USA	SACLA General Proposal (Non-proprietary)	BL3	5
2	2017B8002 ¹⁾	Monitoring the R-T transition in hemoglobin by time-resolved serial femtosecond crystallography	Ilme Schlichting	Max Planck Institute for medical Research	Germany	SACLA General Proposal (Non-proprietary)	BL2	5
3	2017B8003	XFEL-CXDI experiments toward high-resolution structure analyses of biological specimens by signal enhancement and classification of phase-retrieved images	Masayoshi NAKASAKO	Keio University	Japan	SACLA General Proposal (Non-proprietary)	BL2	4
4	2017B8004	Research on interaction of SXFEL with matter for EUV ultra-precision nano-fabrication	Masaharu NISHIKINO	National Institutes for Quantum and Radiological Science and Technology	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
5	2017B8006	Visualizing femtosecond X-ray damage processes via an XFEL pump-harmonic XFEL probe scheme	Ichiro INOUE	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
6	2017B8008	Optical control of biological photoisomerisation using TR-SFX	Jasper vanThor	Imperial College London	UK	SACLA General Proposal (Non-proprietary)	BL3	3
7	2017B8011	C 1s photoelectron diffraction of rotational-wave-packet-controlled CO ₂ molecules	Shinichiro MINEMOTO	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
8	2017B8012	Time-resolved EXAFS studies of reaction intermediates in CO ₂ reduction photocatalytic reaction using Ir complex	Takeshi MORIKAWA	TOYOTA CENTRAL R&D LABS., INC.	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
9	2017B8013	Dislocation dynamics and carbon diffusion in steels using femto-second X-ray diffraction	Mitsuharu YONEMURA	NIPPON STEEL & SUMITOMO METAL CORPORATION	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
10	2017B8014	High throughput determination of intact structures of radiation-sensitive Cu and Fe metalloproteins using nanofabricated silicon nitride chips	Michael Hough	University of Essex	UK	SACLA General Proposal (Non-proprietary)	BL2	3
11	2017B8015 ¹⁾	High-resolution structure of photosystem II in the intermediate state of the oxygen-evolving and water-splitting reaction using fixed-target protein crystallography	Michihiro SUGA	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL2	4
12	2017B8019	Time-resolved electron transfer and fragmentation dynamics of metallo-endothelial fullerenes using hard x-rays at SACLA	Nora Berrah	University of Connecticut	USA	SACLA General Proposal (Non-proprietary)	BL3	5
13	2017B8020	Observation of photo-induced charge separation process of tungsten trioxide by femtoseconds time-resolved X-ray absorption spectroscopy	Kiyotaka ASAKURA	Hokkaido University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
14	2017B8021	Dynamic observation of electronic structure of photodissociating iodine-containing molecules by means of time-resolved electron spectroscopy using SX-FEL	Masaki OURA	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
15	2017B8022	Rapid structure determination system for drug-target proteins using the X-ray free electron laser	So IWATA	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	6
16	2017B8023	Femtosecond X-ray protein nanocrystallography on the chloride pumping mechanism of light-driven transport by a new type of chloride ion pump	Mikako SHIROUZU	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
17	2017B8024	Revealing the primary events in the photolysis of triruthenium dodecacarbonyl (Ru ₃ (CO) ₁₂) using femtosecond X-ray solution scattering	Hytcherl Ihee	Korea Advanced Institute of Science and Technology	Korea	SACLA General Proposal (Non-proprietary)	BL3	5
18	2017B8025 ¹⁾	Structural analysis of the intermediate states of photosystem II water-splitting reaction by pump-probe serial femtosecond crystallography	Jian-Ren SHEN	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
19	2017B8028	Development of femtosecond X-ray crystallography and its utilization in structural biology on biological macromolecules susceptible to radiation damage.	Hideo AGO	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	7
20	2017B8029	Femtosecond time-resolved XAFS study of rhenium complex for detecting transient electronic and molecular structures of the CO ₂ -reducing photocatalyst	Shin-ichi ADACHI	High Energy Accelerator Research Organization	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
21	2017B8031	Experiments of coherent controlled hard x-ray lasers	Hitoki YONEDA	The University of Electro-Communications	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
22	2017B8034	Search for X-ray coherent Raman scattering	Kenji TAMASAKU	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
23	2017B8035	Time-resolved Serial Femtoseconds Crystallography (TR-SFX) for Developing Optogenetics Tools	Osamu NUREKI	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
24	2017B8036	Structure determination of bovine heart cytochrome c oxidase at a reaction intermediate state by time-resolved SFX method	Atsuhiko SHIMADA	Gifu University	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
25	2017B8038	Development of versatile methods for protein structural dynamics analysis using time-resolved serial femtosecond crystallography	Eriko NANGO	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
26	2017B8039	Femtosecond resonant x-ray study of the ultrafast interplay between excitonic, orbital and structural order in 1T-TiSe ₂	Urs Staub	Paul Scherrer Institut	Switzerland	SACLA General Proposal (Non-proprietary)	BL3	7
27	2017B8041	Time-resolved serial femtosecond crystallography of photocycle intermediates of the AR3 photoreceptor from Halorubrum sodomense	Isabel Moraes	Diamond Light Source	UK	SACLA General Proposal (Non-proprietary)	BL2	3
28	2017B8042	Dynamical observation of thermal propagation using X-ray interferometric imaging and hybrid fringe scanning method	Akio YONEYAMA	Hitachi, Ltd.	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
29	2017B8043	Time-resolved serial femtosecond crystallography studies of the photo-dissociation of carbon monoxide from the active site of the proton pump cytochrome oxidase.	Richard Neutze	University of Gothenburg	Sweden	SACLA General Proposal (Non-proprietary)	BL2	4
30	2017B8046	All-X-ray time-resolved diffuse scattering from phonons using split and delay	David Reis	Stanford University/SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	7
31	2017B8048	Retrieval of structural and spin changes during the recombination of nitric oxide (NO) to deoxy-Myoglobin in physiological solution	Majed Chergui	Ecole Polytechnique Fédérale de Lausanne	Switzerland	SACLA General Proposal (Non-proprietary)	BL3	7
32	2017B8050	Time and energy resolution of the rich molecular dynamics of thiophene and its halogenated derivatives	Edwin Kukk	University of Turku	Finland	SACLA General Proposal (Non-proprietary)	BL1	7
33	2017B8051	Study on high-pressure phase transition of carbon using compound targets: exploration of ultrahigh pressure polymorphs above 1 TPa	Norimasa OZAKI	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
34	2017B8052 ²⁾	Time-resolved crystallography of ultrafast light driven DNA repair by photolyases	Yoshitaka BESSHO	Academia Sinica	Taiwan, ROC	SACLA General Proposal (Non-proprietary)	BL2	3.5
35	2017B8055	Generalizing Time-resolved Crystallography: Temperature-Jump Studies of a Dynamic Enzyme	Michael Thompson	University of California, San Francisco	USA	SACLA General Proposal (Non-proprietary)	BL2	3
36	2017B8056	Transient nanoparticle core structural dynamics at the solid-to-plasma transition	Yoshiaki KUMAGAI	Argonne National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	7
37	2017B8059 ¹⁾	Elucidating spin-lattice structure correlations in multi-ferroics and spin crossover compounds by using a pulsed high magnetic field X-ray diffraction system	Hiroyuki NOJIRI	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
38	2017B8060	Time-resolved X-ray magnetic circular dichroism study of magnetization reversal dynamics in perpendicularly magnetized thin films with Pt atoms	Hiroki WADATI	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
39	2017B8061 ¹⁾	Bioimaging by Pulsed Coherent X-Ray Solution Scattering	Yoshinori NISHINO	Hokkaido University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
40	2017B8065	Interatomic Coulombic decay between heavy atoms in organic molecule	Tsukasa TAKANASHI	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
41	2017B8066	Two-color Detection of Mn K α Stimulated X-ray Emission Signals	Uwe Bergmann	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
42	2017B8067	Femtosecond time-resolved X-ray diffraction study of atomic displacement during the photo-induced superconducting transition in a FeSe crystal	Iwao MATSUDA	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
43	2017B8072	Characterization of Liquid Carbon by X-ray Scattering	Richard Saykally	University of California, Berkeley	USA	SACLA General Proposal (Non-proprietary)	BL3	3
44	2017B8074	Ultrafast spin dynamics at an interface of magnetic heterojunctions studied by resonant soft X-ray non-linear spectroscopy	Masato KOTSUGI	Tokyo University of Science	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
45	2017B8075	Crystal Mismatch Heating as a Mechanism for Ultrafast Melting	Nicholas Hartley	HZDR	Germany	SACLA General Proposal (Non-proprietary)	BL3	5
46	2017B8079	Liquid mixing jet experiments using protein microcrystals for time-resolved serial crystallography	Michihiro SUGAHARA	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
47	2017B8080	Transformation dynamics of forsterite by lattice slipping using time-resolved single crystal diffraction of XFEL	Takuo OKUCHI	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL3	2
48	2017B8081	Manipulation of nonlinear processes of atoms in EUV by ultrashort intense laser pulses	Mizuho FUSHITANI	Nagoya University	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
49	2017B8083	Development of time-resolved fluorescence spectroscopy with using superfluorescence	Hiroshi IWAYAMA	National Institutes of Natural Sciences	Japan	SACLA General Proposal (Non-proprietary)	BL1	5
50	2017B8085	Probing of oxygen induced intermediate states in Fe containing metalloenzymes	Jan Kern	Lawrence Berkeley National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL2	5

¹⁾ SACLA Research Proposals for Complementary Use with SPring-8, J-PARC/MLF or the K computer.

²⁾ Including the feasibility check beamtime (FCBT) of 0.5 shifts in assigned shift.