SACLA

2018B Performed Proposals

1Shift =12Hours

S/N	Proposal No.	Performed Proposal Title	Project Leader	Affiliation	Country	Type of Proposal	Beamline	Performed Shift
1	2018B8001	Imaging Ion Channels in Action	Raymond Sierra	Stanford Linear Accelerator Center	USA	SACLA General Proposal (Non-proprietary)	BL2	3
2	2018B8003	Femtosecond time-resolved X-ray absorption spectroscopy of N-doped TiO2 nanoparticle	Takeshi Morikawa	TOYOTA CENTRAL R&D LABS., INC.	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
3	2018B8008	Signal generation in Bacteriophytochromes studied by Serial Femtosecond Crystallography	Sebastian Westenhoff	University of Gothenburg	Sweden	SACLA General Proposal (Non-proprietary)	BL3	5
4	2018B8011	Verification of lattice distortions at the photo-induced insulator-to-metal transition in an exitonic insulator Ta_2NiSe_5	Yuya Kubota	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
5	2018B8013	Dislocation dynamics and carbon diffusion in steels using femto−second X-ray diffraction	Mitsuharu Yonemura	NIPPON STEEL CORPORATION	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
6	2018B8014	Energy-dependent survival times and rich molecular dynamics of thiophene molecules.	Edwin Kukk	University of Turku	Finland	SACLA General Proposal (Non-proprietary)	BL1	7
7	2018B8015	Femtosecond time-resolved X-ray solution scattering study of metal complexes for understanding solvent reorganization processes during photo-induced electron transfer reaction	Shin-ichi Adachi	High Energy Accelerator Research Organization	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
8	2018B8016[2)]	Dynamic structure determination of a photosensitizer protein using a femtosecond X-ray free electron laser	Jiangyun Wang	Insitute of Biophysics	China	SACLA General Proposal (Non-proprietary)	BL2	1.5
9	2018B8018	Time-resolved serial femtosecond crystallography of photocycle intermediates of the AR3 photoreceptor from Halorubrum sodomense	Isabel Moraes	National Physical Laboratory	UK	SACLA General Proposal (Non-proprietary)	BL2	3
10	2018B8019	Time-resolved serial femtosecond crystallography to reveal dynamical properties including hydrolysis reaction of oncogene pruduct H-Ras protein	Fumi Shima	Kobe University	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
11	2018B8023	Non-linear X-ray spectroscopy using two-color XFEL beams	Ichiro Inoue	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
12	2018B8024	Elucidating adduct-isolation mechanism of gas molecular in hemoglobin by femtosecond time-resolved measurements in x-ray spectroscopic methods	Shunsuke Nozawa	High Energy Accelerator Research Organization	Japan	SACLA General Proposal (Non-proprietary)	BL3	4.8
13	2018B8025[1)]	Single Particle Imaging with 100-nm Focused XFEL by Pulsed Coherent X-Ray Solution Scattering	Yoshinori Nishino	Hokkaido University	Japan	SACLA General Proposal (Non-proprietary)	BL2	7
14	2018B8026	Development of Coherent Soft X-ray Imaging method for Observation of Ultra-high Speed Spin Dynamics	Yuichi Yamasaki	National Institute for Materials Science	Japan	SACLA General Proposal (Non-proprietary)	BL1	6.5
15	2018B8027	Sub-10nm XFEL focusing with large-NA multilayer focusing mirrors	Kazuto Yamauchi	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL3	7
16	2018B8028	Electron-ion coincidence spectroscopy of two-color XUV-NIR nonlinear atomic processes	Mizuho Fushitani	Nagoya University	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
17	2018B8029[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
18	2018B8030	Polarized femtosecond time-resolved EXAFS Studies of the Structural and Electronic Dynamics in Coenzyme B12 and its Analogs	James Penner-Hahn	University of Michigan	USA	SACLA General Proposal (Non-proprietary)	BL3	5
19	2018B8031[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
20	2018B8037	Spectrum and spatial mode control with cavity type hard x-ray laser with resonant Bragg crystals	Hitoki Yoneda	The University of Electro-Communications	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
21	2018B8038	Structural evaluation of Tetrabutylammonium bromide (TBAB) supercooled aqueous solution	Hironobu Machida	Panasonic Corporation	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
22	2018B8039	Analysis of structure transformation process from ringwoodite to forsterite for finding quench condition of natural dense silicate structures	Takuo Okuchi	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL3	2
23	2018B8040	Photo-induced magnetization dynamics observed by element-specific time-resolved magneto optical Kerr effect measurement	Masato Kotsugi	Tokyo University of Science	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
24	2018B8041	Molecular dynamics of water using split-and-delay X-ray speckle visibility spectroscopy	Yuya Shinohara	University of Tennessee, Knoxville	USA	SACLA General Proposal (Non-proprietary)	BL3	6.9
25	2018B8042	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	6.8
26	2018B8045	Ultrafast photoelectron diffraction of organometallic molecules	Shinichirou Minemoto	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
27	2018B8046	Development of versatile methods for protein structural dynamics analysis using X-ray free electron lasers	Eriko Nango	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
28	2018B8047	Exploring Laser Astrophysics with coherent x-ray: Basic experiment for the realization of collisionless Weibel shock generation and particle acceleration	Youichi Sakawa	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL2	7
29	2018B8048[1)]	Field-Induced Charge Ordering in Optimally Doped, La-Based Cuprate Superconductors	Johan Chang	University of Zurich	Switzerland	SACLA General Proposal (Non-proprietary)	BL3	5
30	2018B8049	Investigation of surface dynamics of solids upon high-intensity laser irradiation by x-ray reflectometry (XRR) and by grazing-incidence x-ray diffraction (GIXD)	Motoaki Nakatsutsumi	European XFEL, GmbH	Germany	SACLA General Proposal (Non-proprietary)	BL2	7
31	2018B8050	High energy serial femtosecond crystallography for materials science.	Hidetaka Kasai	University of Tsukuba	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
32	2018B8051	Development of a method for X-ray diffraction experiment on nano crystal of biological macromolecule.	Hideo Ago	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
33	2018B8052	Ultrafast sublattice spin dynamics in ferrimagnetic alloys of rare-earth and transition metals	Iwao Matsuda	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	9
34	2018B8055[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	5
35	2018B8056	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	4
36	2018B8057	Study on electronic state using resonant two-photon absorption spectroscopy	Kenji Tamasaku	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
37	2018B8058	Survey of postspinel phases in silicon and germanium nitrides by laser-shock compression	Norimasa Nishiyama	Tokyo Institute of Technology	Japan	SACLA General Proposal (Non-proprietary)	BL3	2
38	2018B8060	Visualization of catalytic reaction processes of respiratory enzymes using caged substrates −Time-resolved X-ray crystallography for observing slow reaction dynamics−	Minoru Kubo	University of Hyogo	Japan	SACLA General Proposal (Non-proprietary)	BL2	4
39	2018B8061	Shock-induced generation of high-pressure silica phases by time-resolved x-ray diffraction	Tomoko Sato	Hiroshima University	Japan	SACLA General Proposal (Non-proprietary)	BL3	2
40	2018B8062	Direct observation of the intersystem crossing in the Cu(I) complex by femtosecond time-resolved x-ray emission spectroscopy	Tetsuo Katayama	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
41	2018B8063	Observation of laser-induced surface melting of nanoclusters by time-resolved X-ray scattering	Kiyoshi Ueda	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL3	7
42	2018B8068	Ultrafast structural changes in photosynthetic reaction centers	Richard Neutze	University of Gothenburg	Sweden	SACLA General Proposal (Non-proprietary)	BL3	3
43	2018B8069	Creation and observation of post-diamond	Norimasa Ozaki	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
44	2018B8071	Structure determination of bovine heart cytochrome c oxidase at a reaction intermediate state by time-resolved SFX method	Atsuhiro Shimada	Gifu University	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
45	2018B8073	Femtosecond X-ray protein nanocrystallography on the chloride pumping mechanis of light-driven transport by a new type of chloride ion pump	Mikako Shirouzu	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
46	2018B8076	Pump-probe, time-resolved serial femtosecond crystallography of phytochromes	Allen Orville	Diamond Light Source, Ltd.	UK	SACLA General Proposal (Non-proprietary)	BL2	5
47	2018B8079	Measurement of coherent-phonon coupling to the electronic gap in topological insulators and Dirac semimetals	Christopher Weber	Santa Clara University	USA	SACLA General Proposal (Non-proprietary)	BL3	4.5
48	2018B8080	Dynamics of atomic-scale liquid diffusion using ultrafast XPCS	Oleg Shpyrko	UC San Diego	USA	SACLA General Proposal (Non-proprietary)	BL3	7
49	2018B8082	Probing the dynamic crossover in liquid Ga	Jerome Hastings	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
50	2018B8083	Exploring the chemical sensitivity of Spontaneous Satellite X-ray Emission from double core holes	Franklin Fuller	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
51	2018B8086	High-order X-ray – Optical Sum Frequency Generation (XSFG)	Matthias Fuchs	University of Nebraska Lincoln	USA	SACLA General Proposal (Non-proprietary)	BL3	5
52	2018B8087	Charge carrier and structural dynamics in novel iron carbene complexes.	Jens Uhlig	Lund University	Sweden	SACLA General Proposal (Non-proprietary)	BL3	4.8
53	2018B8088	Nanoscopic Ultrafast Imaging of Photocarrier Interaction with Ferroelectric Polarization in BiFeO3 by Coherent X-ray Diffraction	Yue Cao	Argonne National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
54	2018B8089	Time-Resolved X-ray Spectroscopy Combined with Crystallography of Photosystem II at Room Temperature	Junko Yano	Lawrence Berkeley National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL2	5
55	2018B8090	Kinetics of Carbon-Hydrogen Phase Separation at Conditions Comparable to the Interiors of Icy Giant Planets	Dominik Kraus	Helmholtz-Zentrum Dresden-Rossendorf	Germany	SACLA General Proposal (Non-proprietary)	BL3	2
56	2018B8091	Structural dynamics of the G protein-coupled receptor rhodopsin studied by pump probe serial femtosecond crystallography.	Gebhard Schertler	Paul Scherrer Institut	Switzerland	SACLA General Proposal (Non-proprietary)	BL3	3
57	2018B8800	Morphology Observation of Automotibe Nanomaterials by using XFEL-CDI technique	Hisao Yamashige	Toyota Motor Corporation	Japan	SACLA Time-Designated Proposal (Proprietary)	BL2	2 hours

[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 performed shift.