

S/N	Proposal No.	Performed Proposal Title	Project Leader	Affiliation	Country	Type of Proposal	Beamline	Performed Shift
1	2019A8001	Realization of ultrafast spintronic device using quantum well structure	Masaki Kobayashi	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
2	2019A8002	Ultrafast transient x-ray imaging of non-equilibrium high energy density plasmas	Hiroshi Sawada	University of Nevada Reno	USA	SACLA General Proposal (Non-proprietary)	BL2	7
3	2019A8004	High Throughput and Time-Resolved Crystallography of Radiation Sensitive Metalloenzymes using a Laser Activated Photocage	Michael Hough	University of Essex	UK	SACLA General Proposal (Non-proprietary)	BL2	3
4	2019A8005	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
5	2019A8007 <sup>2)</sup>	Signal transduction in Bacteriophytochromes observed by Time-Resolved Serial Femtosecond Crystallography	Marius Schmidt	University of Wisconsin-Milwaukee	USA	SACLA General Proposal (Non-proprietary)	BL2	3.5
6	2019A8012	Exploring wave packet motion of excited molecules by energy-tunable seeded XFEL	Shin-ichi Adachi	High Energy Accelerator Research Organization	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
7	2019A8013	Development of versatile methods for protein structural dynamics analysis using X-ray free electron lasers	Eriko Nango	Kyoto University	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
8	2019A8014 <sup>2)</sup>	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
9	2019A8015	Structural dynamics of the G protein-coupled receptor rhodopsin studied by pump probe serial femtosecond crystallography.	Gebhard Schertler	Paul Scherrer Institute	Switzerland	SACLA General Proposal (Non-proprietary)	BL2	3
10	2019A8016	Creation and observation of ultra-high energy density state with ultrahigh intensity laser	Keisuke Shigemori	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5.333
11	2019A8017	Observation of magnetic-field-induced quantum phase transitions in spin-lattice coupled systems with coherent x-ray diffraction	Yasuhiro Matsuda	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
12	2019A8019 <sup>1)</sup>	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
13	2019A8020	Development of Holographic Imaging method for Observation of Ultra-high Speed Spin Dynamics	Yuichi Yamasaki	National Institute for Materials Science	Japan	SACLA General Proposal (Non-proprietary)	BL1	8
14	2019A8021	Non-linear X-ray spectroscopy using two-color XFEL beams	Ichiro Inoue	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
15	2019A8023 <sup>1)</sup>	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
16	2019A8024	Radiation-Damage-Free Imaging of Solid Electrolytes for Solid-State Batteries by Pulsed Coherent X-Ray Solution Scattering	Hisao Yamashige	TOYOTA MOTOR CORPORATION	Japan	SACLA General Proposal (Non-proprietary)	BL2	7
17	2019A8026	Direct observation of molecular orbitals dynamics by means of time-resolved electron spectroscopy using SX-FEL	Tatsuo Gejo	University of Hyogo	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
18	2019A8028	Electron-ion coincidence spectroscopy of molecular processes in intense XUV laser fields	Mizuho Fushitani	Nagoya University	Japan	SACLA General Proposal (Non-proprietary)	BL1	5.5
19	2019A8030	Dynamical observation of thermal propagation at surface of materials using time-resolved X-ray thermography	Akio Yoneyama	Hitachi, Ltd.	Japan	SACLA General Proposal (Non-proprietary)	BL3	3
20	2019A8032 <sup>1)</sup>	Elucidation of the mechanism of photosystem II water-splitting by structural analysis of the intermediate states using pump-probe serial femtosecond crystallography	Jian-Ren Shen	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
21	2019A8034	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
22	2019A8035	Time-resolved serial femtosecond crystallography to reveal dynamical properties of oncogene product H-Ras protein	Fumi Shima	Kobe University	Japan	SACLA General Proposal (Non-proprietary)	BL2	2
23	2019A8036 <sup>1)</sup>	Analysis of multiple structure transformation processes via ringwoodite structure to newly-discovered dense epsilon structure of olivine under shock compression	Takuo Okuchi	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL3	2
24	2019A8037	Phase contrast imaging of Rayleigh-Taylor Instabilities in dense plasmas	Michel Koenig	Centre National de la Recherche Scientifique	France	SACLA General Proposal (Non-proprietary)	BL3	2
25	2019A8038	Crossover between an order-disorder and a coherent, displacive phase transition	Mariano Trigo	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
26	2019A8039	Tracking photogenerated charge carrier dynamics in photovoltaic Cu <sub>2</sub> ZnSnS <sub>4</sub> by ultra-fast X-ray spectroscopy	Jens Andreasen	Technical University of Denmark	Denmark	SACLA General Proposal (Non-proprietary)	BL3	5
27	2019A8040	Probing the liquid-liquid transition in supercooled Te	Jerome Hastings	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
28	2019A8042	Utilizing femtosecond X-ray tools for investigation of dyads with Fe(II) photocatalysts	Matthias Bauer	University of Paderborn	Germany	SACLA General Proposal (Non-proprietary)	BL3	5
29	2019A8043	Real-space collective motion of water molecules based on split-and-delay X-ray speckle visibility spectroscopy	Yuya Shinohara	Oak Ridge National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	7
30	2019A8045	Filming X-ray induced reactions in molecules containing heavy elements by time-resolved ion momentum multiple coincidence spectroscopy	Hironobu Fukuzawa	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
31	2019A8047	XFEL-excited ultrafast band dynamics in GaAs studied by near-infrared transient-absorption spectroscopy	Yoshihito Tanaka	University of Hyogo	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
32	2019A8048	Study on X-ray photoionization dynamics in condensed matter with time-resolved two-color X-ray spectroscopy	Taito Osaka	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
33	2019A8049	Study on electronic state using resonant two-photon absorption spectroscopy II	Kenji Tamasaku	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
34	2019A8052	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
35	2019A8054	Study of dynamics of correlated electronic decay in nano-plasma by time-resolved soft X-ray electron spectroscopy	Kiyonobu Nagaya	Kyoto University	Japan	SACLA General Proposal (Non-proprietary)	BL1	7
36	2019A8055	Primary dynamics of transient orbital ordering-lattice correlation in perovskite cobalt oxides revealed by femtosecond time-resolved X-ray diffraction	Ryo Fukaya	High Energy Accelerator Research Organization	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
37	2019A8063	Signal generation in Bacteriophytochromes studied by Serial Femtosecond Crystallography	Sebastian Westenhoff	University of Gothenburg	Sweden	SACLA General Proposal (Non-proprietary)	BL3	5
38	2019A8064	Unraveling the photoinduced formation of polarons in inorganic and hybrid lead halide perovskite nanocrystals with femtosecond X-ray absorption spectroscopy and anomalous X-ray scattering	Sophie Canton	ELI-ALPS Research Institute	Hungary	SACLA General Proposal (Non-proprietary)	BL3	5
39	2019A8065	Verification of lattice distortions at the photo-induced insulator-to-metal transition in an excitonic insulator TaNiSe <sub>2</sub>	Yuya Kubota	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
40	2019A8067	Tracing temporal evolutions of the sublattice ferromagnetism in RE-TM: Case of TbFe and TbFeCo	Souliman El Moussaoui	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	9
41	2019A8070	Kinetics of Carbon-Hydrogen Phase Separation at Conditions Comparable to the Interiors of Icy Giant Planets	Dominik Kraus	Heimholtz-Zentrum Dresden-Rossendorf	Germany	SACLA General Proposal (Non-proprietary)	BL3	4
42	2019A8072	Melting structure of SiO <sub>2</sub> and its analogues - kinetics at superheating conditions	Thomas Tschentscher	European X-ray Free Electron Laser facility, GmbH	Germany	SACLA General Proposal (Non-proprietary)	BL3	2
43	2019A8073	High resolution and non-damaged X-ray structural analysis of the plant-type ferredoxin working at the last step of oxygenic photosynthesis	Genji Kurisu	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL2	2
44	2019A8074 <sup>1)</sup>	Experimental observation of local lattice distortion in low dimensional inorganic-organic coordination polymers using pump-probe spectroscopy and serial femtosecond crystallography at an X-ray Free Electron Laser.	James Hohman	Lawrence Berkeley National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	3
45	2019A8077	Time-resolved serial femtosecond crystallography studies of proton pumping by cytochrome c oxidase	Richard Neutze	University of Gothenburg	Sweden	SACLA General Proposal (Non-proprietary)	BL2	3
46	2019A8078	Towards incoherent X-ray imaging with atomic resolution	Taisia Gorkhova	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
47	2019A8079	The role of multiple core electrons in anomalously strong x-ray nonlinearities	Johann Haber	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
48	2019A8081	Simultaneous X-ray Spectroscopy and Crystallography of Photosystem II	Junko Yano	Lawrence Berkeley National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL2	5
49	2019A8082	Ultrafast spectroscopy of valence electrons at atomic scale resolution through nonlinear x-ray quantum frequency conversion	Andreas Galler	European X-ray Free Electron Laser facility, GmbH	Germany	SACLA General Proposal (Non-proprietary)	BL3	5
50	2019A8084	Controlling the lifetime of photoexcited states by dimensional confinement	Andrej Singer	Cornell University	USA	SACLA General Proposal (Non-proprietary)	BL3	5
51	2019A8087	Slater versus Mott Magnetic Dynamics in Sr3Ir2O7	Mark Dean	Brookhaven National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
52	2019A8088	Deciphering the structural basis of antimicrobial resistance (AMR) with non-equilibrium, time-resolved SFX studies of beta-lactamase turnover	Allen Orville	Diamond Light Source, Ltd.	UK	SACLA General Proposal (Non-proprietary)	BL2	5
53	2019A8089	Picosecond dynamics of photoexcitation and phase transformation in compressively strained BiFeO <sub>3</sub>	Paul Evans	University of Wisconsin	USA	SACLA General Proposal (Non-proprietary)	BL3	5
54	2019A8091	Terahertz-Driven Structural Dynamics in Multiferroics	Rohit Prasankumar	Los Alamos National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
55	2019A8092 <sup>1)</sup>	Direct observation of reorientation dynamics of a plastic crystal with colossal barocaloric effect	Yanna Chen	Northwestern University	USA	SACLA General Proposal (Non-proprietary)	BL3	3
56	2019A8800	Time-resolved structural analysis for development of highly functional tire rubber	Ryo Mashita	Sumitomo Rubber Industries, Ltd.	Japan	SACLA Time-Designated Proposal (Proprietary)	BL2	2 hours

<sup>1)</sup> SACLA Research Proposals for Complementary Use with SPRing-8, J-PARC/MLF or Supercomputers (public computational resource of HPCI including the K computer).

<sup>2)</sup> Including the feasibility check beamtime (FCBT) of 0.5 shifts in performed shift.