SACLA

2025A, Performed Proposals

1Shift =12Hours

S/N	Proposal Number	Performed Proposal Title	Project Leader	Affiliation	Country	Type of Proposal	Beamline	Shift
1	2025A8003	Substrate-catalyst interaction and intermediate formation study in protein crystal for unnatural reactions using TR-SFX	Takafumi Ueno	Institute of Science Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
2	2025A8004	On the polarization state of stimulated emitted x-rays	Toshiya Inami	National Institutes for Quantum Science and Technology	Japan	SACLA General Proposal (Non-proprietary)	BL3	3.083
3	2025A8005	Study on hole dynamics using X-ray transient grating	Kenji Tamasaku	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
4	2025A8006	Analysis of the structural changes accompanying light-energy migration in photosystem II at pico-second time range probed by the pump-probe SFX method	Jian-Ren Shen	Okayama University	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
5	2025A8008	Following the photoswitching dynamics of azobenzenes in a time-resolved Coulomb explosion imaging experiment	Edwin Kukk	University of Turku	Finland	SACLA General Proposal (Non-proprietary)	BL1	10
6	2025A8009	The Solvation of Chlorine Oxyanions at the Water-Vacuum Interface	Craig Schwartz	University of Nevada, Las Vegas	USA	SACLA General Proposal (Non-proprietary)	BL1	10
7	2025A8010	Study of electronic state in catalytic intermediates of metal protein by time-resolved simultaneous measurements of X-ray spectroscopy and SFX	Atsuhiro Shimada	Gifu University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
8	2025A8011 [2]	Structural dynamics of PAmCherry photoconversion	Hideaki Mizuno	KU Leuven	Belgium	SACLA General Proposal (Non-proprietary)	BL2	3.5
9	2025A8012	Time-resolved microcrystallography of organic compounds and chromophore molecules using femto-second lasers	Koji Yonekura	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
10	2025A8013	Dynamics of electron transfer in molecular compartments for photocatalytic CO2 reduction	Feng Wang	University College London	UK	SACLA General Proposal (Non-proprietary)	BL3	5
11	2025A8014	Probing Ultrafast Isomerization Dynamics in Bromoform via Inner Shell Coulomb Explosion Imaging	Ruaridh Forbes	University of California	USA	SACLA General Proposal (Non-proprietary)	BL1	7
12	2025A8015	Structural basis of photoactivation in reverse phytochromes through nanosecond serial crystallography	Sebastian Westenhoff	Uppsala University	Sweden	SACLA General Proposal (Non-proprietary)	BL2	5
13	2025A8019	Development of high-resolution small molecule structural analysis using CITIUS detector	Eiji Nishibori	University of Tsukuba	Japan	SACLA General Proposal (Non-proprietary)	BL2	3
14	2025A8020	The research of magnetic proximity effect in two-dimensional magnetic CrTe2/FeTe heterojunction by soft X-ray MOKE techniques	Qiucheng Li	Westlake University	China	SACLA General Proposal (Non-proprietary)	BL1	8
15	2025A8022	Application of X-Rays emitted from intense-laser-produced plasma to X-Ray optics	Yuichi Inubushi	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL2	11
16	2025A8023	The study of electronic ferroelectric and ultrafast structural dynamics in a thin film of an iron oxide YbFe2O4	Yoichi Okimoto	Institute of Science Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
17	2025A8024	Study for photo-excited dynamics using single-shot time-resolved measurement with "Frequency-Resolved Optical Gating" (FROG)	Tadashi Togashi	Japan Synchrotron Radiation Research Institute	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
18	2025A8025	Towards generation of single-digit hard x-ray attosecond pulses	Aliaksei Halavanau	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	3
19	2025A8026	Direct observation of charge-density-wave amplitude mode and photo-induced phase transition in 4Hb-TaS2	Takeshi Suzuki	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
20	2025A8027	Exploring High-Pressure Phase Transitions of Brucite Mg(OH)2 through In-Situ X-ray Diffraction: Implications for Earth's Deep Water Cycle and Water Worlds	Donghoon Kim	Korea University	Korea	SACLA General Proposal (Non-proprietary)	BL3	2
21	2025A8028 [1] [2]	Mix-and-inject serial crystallography of structural changes during the copper amine oxidase reaction	Takeshi Murakawa	Osaka Medical and Pharmaceutical University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5.5
22	2025A8038	Photoactivation mechanism of metal-containing photolyase revealed by damage-free time- and spatially-resolved anomalous dispersion refinement	Junpei Yamamoto	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
23	2025A8039	Uncovering the role of water in biomolecular liquid-liquid phase separation	Foivos Perakis	Stockholm University	Sweden	SACLA General Proposal (Non-proprietary)	BL2	5
24	2025A8041	Elucidating the Role of Bismuth in Photoluminescence Activation of Double Perovskite Nanocrystals Using Ultrafast X-ray Absorption and Scattering	Lukasz Klopotowski	Polish Academy of Sciences	Poland	SACLA General Proposal (Non-proprietary)	BL3	5
25	2025A8042	Observation of Bioluminescence Process by Serial Femtosecond Crystallography	Toru Nakatsu	Wakayama Medical University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
26	2025A8044 [1]	Molecular-level imaging using 100-nm Focused XFEL	Yoshinori Nishino	Hokkaido University	Japan	SACLA General Proposal (Non-proprietary)	BL2	11
27	2025A8045	Characterization of MHD turbulence spectrum in the laboratory	Bruno Albertazzi	LULI, Ecole Polytechnique	France	SACLA General Proposal (Non-proprietary)	BL3	5
28	2025A8046	Achievement of high coherent hard x ray lasers	Yurina Michine	The University of Electro-Communications	Japan	SACLA General Proposal (Non-proprietary)	BL3	4.833
29	2025A8048	Study on metallic Si and SiO2 by X-ray scattering measurements combined with XRD	Norimasa Ozaki	Osaka University	Japan	SACLA General Proposal (Non-proprietary)	BL3	3.833
30	2025A8049	Investigating Buried Interfaces in Silicon Solar Materials under Illumination using Soft X-ray Second Harmonic Generation Spectroscopy	Walter Drisdell	Lawrence Berkeley National Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL1	11
31	2025A8051	Ultrafast photo-induced structural phase transition dynamics in a topological excitonic insulator	Faran Zhou	Chinese Academy of Sciences	China	SACLA General Proposal (Non-proprietary)	BL3	5
32	2025A8052	X-ray pump x-ray probe of the collective and single particle electron dynamics in isochorically heated warm dense matter	Luke Fletcher	SLAC National Accelerator Laboratory	USA	SACLA General Proposal (Non-proprietary)	BL3	5
33	2025A8054	Single Particle Biological X-ray Imaging in the Solution Phase	Filipe Maia	Uppsala University	Sweden	SACLA General Proposal (Non-proprietary)	BL3	5
34	2025A8055	Resonant elastic x-ray scattering for Bragg diffraction from single crystal with core-hole atoms	Andrei Benediktovitch	Deutsches Elektronen-Synchrotron	Germany	SACLA General Proposal (Non-proprietary)	BL3	9
35	2025A8056 [1] [2]	High-speed time-resolved structural analysis of light-energy transfer mechanism in antenna protein	Yasufumi Umena	Nagoya University	Japan	SACLA General Proposal (Non-proprietary)	BL2	5.5
36	2025A8058	Analysis of structural changes in the oxygen-evolving photosystem II by multiphoton absorption process using femtosecond lasers	Keisuke Kawakami	RIKEN	Japan	SACLA General Proposal (Non-proprietary)	BL2	5
37	2025A8061	Probing nanoscale structural response from hard X-ray single-photon ionization in liquids	Werner Ihme	Stanford University	USA	SACLA General Proposal (Non-proprietary)	BL3	5
38	2025A8062	Probing ultrafast dynamics in lithium-ion battery cathode materials	Frederico Alves Lima	European XFEL GmbH	Germany	SACLA General Proposal (Non-proprietary)	BL3	7
39	2025A8064	Generation and polarization control of single-mode X-ray atomic laser	Ichiro Inoue	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL3	5
40	2025A8065	Study of Interface and bulk magnetic states in the Cu/Fe orbitronic material by linear and nonlinear soft X-ray spectroscopy	Iwao Matsuda	The University of Tokyo	Japan	SACLA General Proposal (Non-proprietary)	BL1	8
41	2025A8069	Magnetic Field Induced Phase Transition of Graphite in the Quantum Limit-Observation of Superlattice peak by CDW.	Hiroyuki Nojiri	Tohoku University	Japan	SACLA General Proposal (Non-proprietary)	BL2	10
42	2025A8072	Study of Light-induced Atomic and Molecular Distortion	James Hohman	University of Connecticut	USA	SACLA General Proposal (Non-proprietary)	BL2	3
43	2025A8073	Single shot XFEL powder diffraction study at 100 Tesla using PINK-02 and XFEL: Uncovering the novel crystal structure of the θ phase of solid oxygen at 100 Tesla III	Akihiko Ikeda	The University of Electro-Communications	Japan	SACLA General Proposal (Non-proprietary)	BL3	5

[1] SACLA Research Proposals for Complementary Use with SPring-8, J-PARC/MLF or HPCI including the supercomputer Fugaku.

[2] Including the feasibility check beamtime (FCBT) of 0.5 shifts in performed shift.