

Scheduled Experiments – Cycle 201802

November 2018 – June 2019

No.	Title	Main Proposer / Principal Investigator	Instrument
2218	Exploring the solvent-governed potential energy landscapes of Fe-based molecular photosensitizers	K. Haldrup	FXE SASE1
2266	Origins of enhanced aurophilicity in stimuli-responsive dimer complexes and the role of "host-guest" interactions	D. Khakhulin / E. Grachova	FXE SASE1
2271	Elucidating the photoinduced mechanism of hot electron transfer in a conformationally-flexible Ni(II) porphyrin-fullerene dyad	M. Naumova	FXE SASE1
2180	Characterizing the Ionization Potential Depression in Dense Carbon Plasmas with High-Precision Spectrally Resolved X-ray Scattering	D. Kraus	HED SASE2
2191	Resolving low-frequency structural dynamics at the HED scientific instrument	U. Zastrau / G. Gregori	HED SASE2
2194	High-purity X-ray polarimetry at a hard X-ray free-electron laser	K. S. Schulze / I. Uschmann	HED SASE2
2200	Non-linear Compton scattering at extreme intensities	S. Bajt	MID SASE2
2207	Cavitation Dynamics Studied by Time-Resolved High-Resolution X-Ray Holography	J. Hagemann / T. Salditt	MID SASE2
2214	Dynamics in supercooled liquids - a sequential XPCS community proposal	C. Gutt / F. Lehmkuhler	MID SASE2
2272	Probing the local structural features in supercooled atomic liquids during the liquid-to-solid phase transition	R. Grisenti	MID SASE2
2170	Open community proposal on efficient X-ray absorption spectroscopy at FELs: from non-perturbing fluences to non-linear effects	M. Beye	SCS SASE3
2197	Open Community Proposal: Direct experimental observation of stimulated elastic emission using soft X-rays	B. Pfau	SCS SASE3
2222	X-ray holography of ultrafast magnetism: femtosecond movies at the nanoscale	S. Bonetti	SCS SASE3
2252	Single shot time-resolved imaging of ultrafast thermal skyrmion nucleation and annihilation in a ferromagnet	F. Büttner / G. Beach	SCS SASE3
2145	High-resolution Flash X-ray Imaging of Melbournevirus at MHz rates	F. Maia	SPB/SFX SASE1
2156	Nanocrystal data collection, possible limitations by XFEL-induced shockwaves	I. Schlichting	SPB/SFX SASE1
2157	Structural dynamics in solutions induced by XFEL pulse-generated shock waves	I. Schlichting	SPB/SFX SASE1
2160	Single Particle Imaging: The Million-pattern Gold Standard	K. Ayyer	SPB/SFX SASE1
2166	Time-resolved serial crystallography with mhz data collection rates	M. Schmidt	SPB/SFX SASE1
2172	Structural dynamics and mechanism of chloride transport.	P. Nogly	SPB/SFX SASE1
2173	Time-resolved Crystallography of Photosynthetic reactions by use of the XFEL pulse-train structure	P. Fromme	SPB/SFX SASE1

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2150	Dynamic response of water molecules to a ultra-intense X-ray beam	M. N. Piancastelli	SQS SASE3
2159	Tracing electron rearrangement upon absorption of very intense X-ray pulses	R. Boll	SQS SASE3
2176	Proton-buffered explosion of methane clusters	T. Moeller / D. Rupp	SQS SASE3
2181	Multi-photon ionization of atoms and small molecules	T. Jahnke	SQS SASE3
2193	Non-linear electronic interaction of atoms with x-rays	T. Mazza	SQS SASE3
2195	Imaging nanostructures in superfluid helium droplets	D. Rupp / R. M. P. Tanyag	SQS SASE3
2224	Measuring the atomic recoil to study stimulated X-ray emission in neutral Ne	U. Eichmann	SQS SASE3