4th ELI User Call Set to Launch 25 March

Instrument offer/ Available equipment for CALL 4
Launch: 25th March 2024
Deadline: 29th April 2024
Experiment period: October 2024- March 2025

DRIVER LASER (on-target parameters)	Equipment available for experimenting	Short description
L1 (1 kHz, 15 fs, 2.5 TW)	HHG	kHz High Harmonic Generation source of 10-120 keV photons
	HHG-MAC	Multipurpose station for AMO science and Coherent Diffractive Imaging served by HHG source
	PXS	kHz plasma X-ray source of hard incoherent X-rays
	PXS -TREX	Endstation for time-resolved X-ray diffraction or spectroscopy experiments served by PXS
	ALFA	kHz laser-plasma electron accelerator and relativistic-intensity laser-matter interaction station
L3 (3.3 Hz, 27 fs, 0.4 PW)	ELBA	High-energy electron beamline for fundamental science and applications
	ELIMAIA	Laser-driven ion accelerator and ultrahigh-intensity laser-matter interaction beamline
	ELIMAIA - ELIMED	Station for multidisciplinary applications of laser-driven ion beams
L4n (1 shot / 2min, 0.5 kJ, 2-10ns, 530 nm, broad/narrow band)	P3	Plasma Physics Platform for high energy density science and fusion research
SYLOS 2 (1kHz, 8fs, 3.75 TW)	SYLOS2	Experimental platform for the SYLOS 2 laser
	GPRC	Gas phase reaction control pump-probe setup for femtochemistry
	SYLOS COMPACT	High Harmonic Generation source @ 1 kHz with XUV - IR pump-probe setup
	SYLOS LONG	High Harmonic Generation source @ 1 kHz with XUV - IR pump-probe setup
SYLOS 3 (1kHz, 9 fs, 13 TW)	SYLOS3	Experimental platform for the SYLOS 3 laser
	LEIA	Low-energy ion acceleration and neutron generation beamline driven at 1 kHz.
SYLOS ALIGNMENT (10Hz, 12fs, 40mJ)	SYLOS COMPACT	High Harmonic Generation source @ 10 Hz with XUV-XUV and XUV - IR pump-probe setup

	SYLOS LONG	High Harmonic Generation source @ 10 Hz with XUV - IR pump-probe setup
	LEIA	Low-energy ion acceleration and neutron generation beamline driven at 10 Hz.
	LIDT	Laser-induced damage threshold test station
MIR (100kHz, 40fs, 40mJ)	MIR	Experimental platform for the MIR laser
	MIR - HHG in Solids	Generation and study of HHG in solids
HR1 (100kHz, 8fs, 1mJ)	HR1	Experimental platform for the HR1 laser
	TAS	Transient absorption spectroscopy for liquids and films
	MDOS	Multi-dimensional optical spectroscopy for biological samples
	HR Condensed	High Harmonic Generation source @ 100 kHz with XUV - IR pump-probe setup
	HR Gas	High Harmonic Generation source @ 100 kHz with XUV - IR pump-probe setup
	HR Gas- REMI	HHG source with a reaction microscope (COLTRIMS) endstation
HR Alignment (10 kHz, 7 fs, 1 mJ)	HRA	Experimental platform for the HRA laser
	HR Gas	High Harmonic Generation source @ 10 kHz with XUV - IR pump-probe setup
THz Pump (1:50Hz, 500fs, 500mJ; 2: 1kHz, 92 fs, 4mJ)	THz High Energy	High-energy THz source (~mJ) for intense THz experiments @ 50 Hz
NLTSF Pump (no external output)	NLTSF	Non-linear THz spectroscopy for THz pump-probe measurements with visible probe beams
Venteon/ helium VUV	NanoESCA	NanoESCA/photo-emission electron microscope (PEEM) with spatial, momentum and spin resolution applicable for static and pump-probe measurements
Astrella	trELIPs & TCT	Time-resolved Spectroscopic Ellipsometry and Transient Current Technique
Femtopower-Solstice	FSRS & TA	Femtosecond Raman spectroscopy and transient absorption spectroscopy
Element2	UF Ellipsometer	Ultrafast ellipsometer with fs resolution
CW1550, CW632, CW533	SNOM	Scanning near-field optical microscope with fs irradiation
n/a	Radiobiology with IFIR	Biology facilities including cell culture, histopathology, zebrafish labs with dosimetry. Irradiation endstation for multidisciplinary research
n/a	Nanofabrication	Electron microscopy, electron lithography and focused ion beam lithography facilities