

# Pump-Probe Laser 2030+

28.01.2026 / 09:00 – 17:00

Hybrid Meeting (in-person and Zoom), EuXFEL XHQ E1.173



Pump-probe (PP-) lasers, are vital for most time-resolved studies at the European XFEL. Since their installation in 2016, these lasers have operated successfully for seven instruments across three SASE beamlines and with over 95% uptime.

The EuXFEL strategy 2030+ includes plans for developments of future PP-lasers and secondary sources, such as attosecond pulses and new light sources in the THz and mid-infrared range.

In this workshop, we will present the 'Pump-probe lasers 2030+' program and discuss its planning status. We invite all EuXFEL instruments and external users to share their future needs for PP-lasers and secondary sources.

Organisers: M. Lederer, D. Rompotis, I. Radu, M. Emons, M. Robinson, M. Meyer

Contact: max.lederer@xfel.eu

## 28.01.2026, EuXFEL XHQ E1.173

09:00	Welcome	M. Lederer	LAS, EuXFEL
09:05	Strategy Program SP006 "PPL2030+" (10' + 5')	M. Lederer	LAS, EuXFEL
<b>Requirements and specs for future PPLs</b>			
09:20	Current PPL specs (10' + 5')	R. Secareanu	LAS, EuXFEL
09:35	Instruments survey: future PPL needs (5' + 5')	M. Lederer	LAS, EuXFEL
09:45	Technology survey: high power laser amps (5' + 5')	M. Lederer	LAS, EuXFEL
09:55	Future machine operation modes (15'+5')	H. Sinn	Dol, EuXFEL
10:15	<b>Coffee break and poster session</b>		
10:45	6 user / instr. presentations concerning current / future PPL requirements (10'+5'), ad hoc brainstorming	t.b.d.	t.b.d.
12:15	<b>Lunch (individual)</b>		
<b>SP006 and other planned activities</b>			
13:00	Possible future laser designs (20'+10')	D. Walke	LAS, EuXFEL
13:30	Laser based THz implementation plans (20'+10')	I. Radu	LAS, EuXFEL
14:00	Few-fs / sub-fs UV/Vis pulses: "EXTRA" (20'+10')	M. Robinson	SQS, EuXFEL
14:30	Secondary sources (20'+10')	D. Rompotis, M. Emons	LAS, EuXFEL
15:00	<b>Coffee break and poster session</b>		
15:30	Synchronization plans (LAM, etc.) (20'+10')	S. Schulz	LbSync, DESY
16:00	Final discussions, collecting input from instr. and users	M. Lederer	LAS, EuXFEL
17:00	Close	M. Lederer	LAS, EuXFEL
18:00	<b>Dinner at BeamStop</b>		