

SLAC User Facilities

LCLS: X-ray FEL 6 experimental hutches; 5 have optical laser systems

SSRL: Electron storage ring ~20 x-ray beamlines, ~ 40 hutches
(~ 5 hutches have had experiments with optical lasers)

FACET: Accelerator Physics Research (e.g., plasma wakefield acceleration)

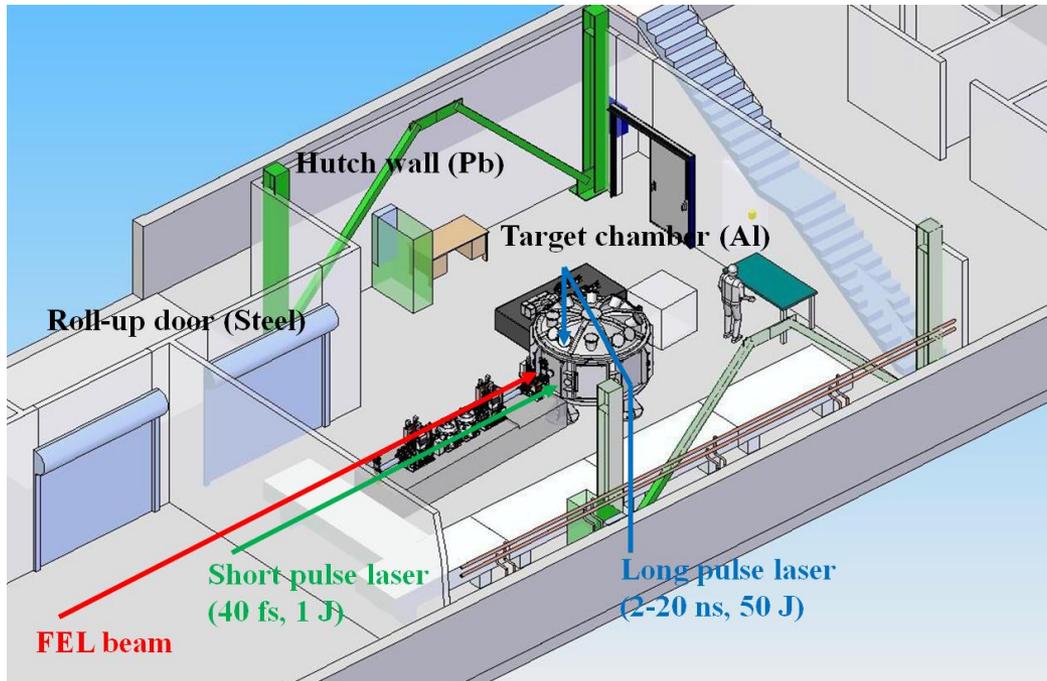
260 Qualified Laser Operators, ~1/3 are Users

33 LCA Workers, 6 are Users (all at LCLS Hutch 6)

~12 hours training for QLOs

~10 hours training for LCA Workers

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Hutch 6: MEC Instrument (Matter in Extreme Conditions)

- 47 QLOs (25 are users)
- 13 LCA Workers (6 are users)
- Only 5 QLOs have RFID authorization to change mode or open shutters or be present in hutch when PFN enabled for long pulse laser;
All are SLAC employees

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Recent user experiment at SSRL BL 7-3

- 100mW 405nm cw laser
- PI from LBNL is only QLO
 - is also QLO at LBNL
 - has good laser expertise
- Experiment used laser for 2 shifts

Requirements - notes:

Training:

- Waived requirements for PI to take 2-hr laser alignment practical, and 3-hr laser supervisor course
- Transferred credit for DOE web-based laser training taken at LBNL (3-hr course)
- PI completed SLAC courses for laser lessons learned (90 mins), WPC (45 mins)

Alternate Controls approved:

- No interlocked/locked entryway to LCA: guard + no unattended operation
- No emergency off button: use laser key and post associated sign

Safety Documentation, Inspection + Review/Approval process:

- followed normal process except no Laser Safety Committee Review
- Reviews, inspections and approvals by LSO and Deputy LSO
- Laser power supply had no NRTL certification; → “EEIP” inspection/approval by SLAC

