

Laser Work Update & Schedule

Zhi Zhao
July 21, 2016

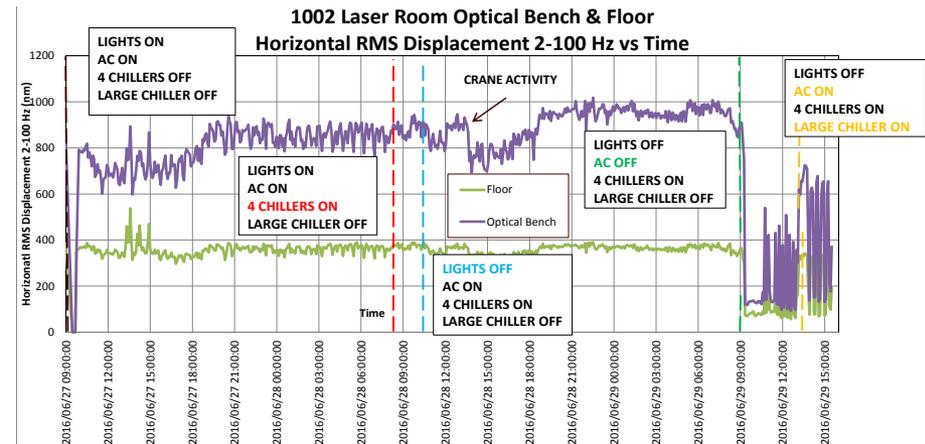
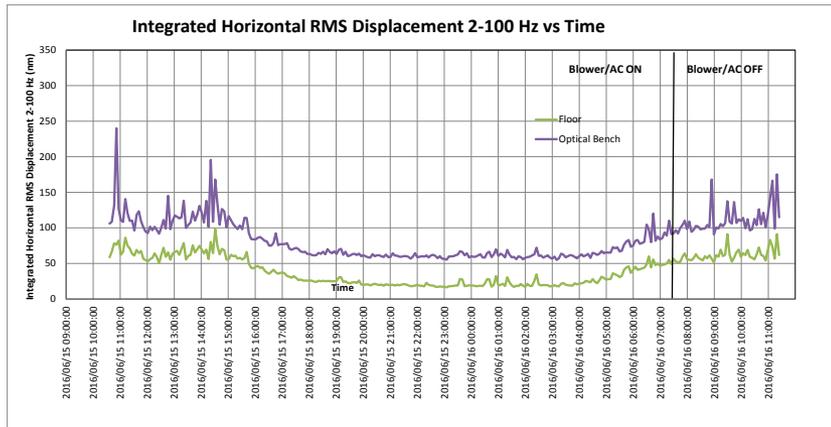
Outline

- Vibration measurement
- Laser room
- Laser transport
- Laser temporal shaping
- Gun table
- Intensity control

Vibration Measurement

ERL laser room

1002 F



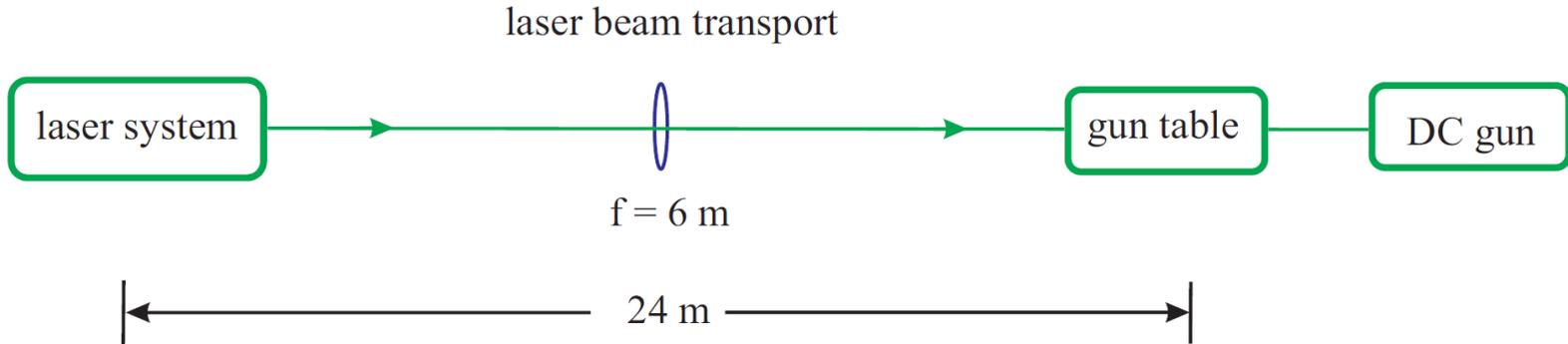
- Horizontal RMS movement is very big!
- Improvement in 1002 F has been planned.

ERL Laser Room



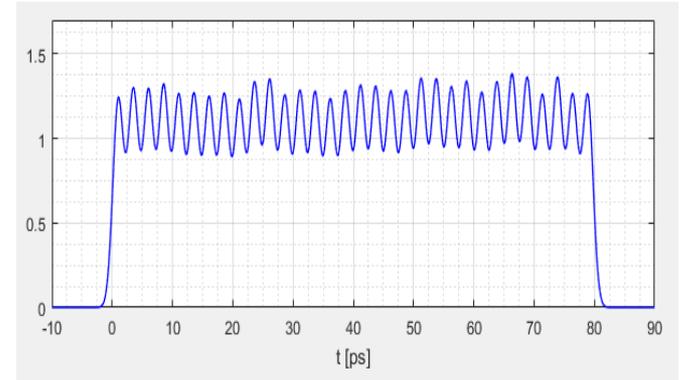
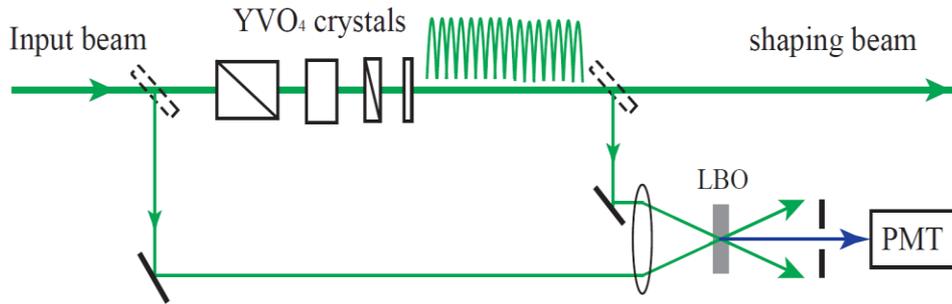
- Electricity is underway;
- Replacing legs with concrete blocks;
- SOP is done by Asher Etkin this Friday;
- Room will be ready next week.

Laser Transport



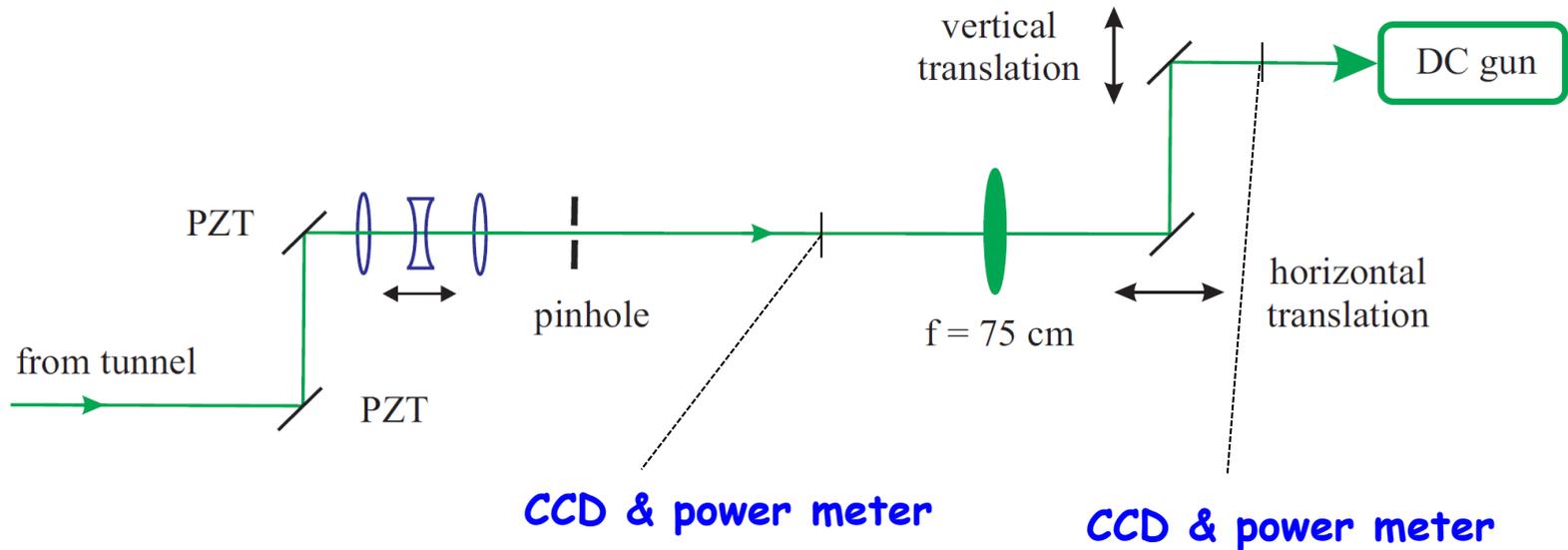
- Design: completed in two week
- Vacuum pipe, view windows, tables: Steven
- Mirrors: Patrick
- Lenses: Zhi
- On schedule

Crystal Stack for Laser Beam Shaping



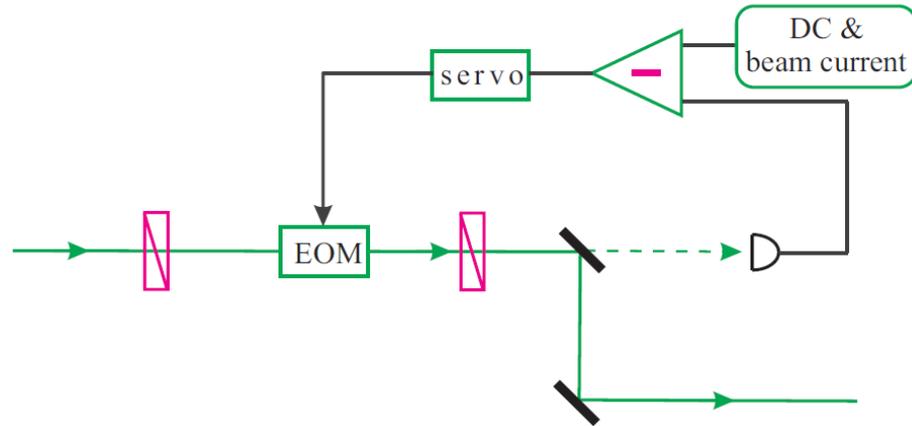
- Planning by Patrick
- Rotator control from Lenny
- Test: early September

Laser Spatial Shaping & Diagnostics



- Planning by Patrick
- Motor control from Lenny
- Test: two weeks

Intensity Control



- Quote is underway
- Test: late September