To do list for laser maintenance 8.28-8.30

- Clean the turning box and compressor chamber, remove all broken glass piece on bread board and mirror mount.
- 2. Test chamber leakage, check all flanges and o-rings and windows.
- 3. Check all optics in turning box and compressor chamber, replace all optics with damage spots on it, measure the reflectivity of compressor.
- 4. Check focal spot quality and pulse duration at full power.
- 5. Training of using of fully amplified laser beam, adjusting compressor grating pair and operating the autocorrelator.
- 6. Training of handling vacuum system.
- Add independent motor electric feedthrough for controlling 870 steering mirror and pulse duration.
- 8. Shift the booster amplifier crystal and use a good spot on it for amplification.
- 9. Add one more camera to check the beam pointing after booster amplifier.
- 10. Re-organize BNC cable under optical tables, remove all the unused hardware into equipment room and make space for laser control computer rack.