Hardware: Powering On (green elements in image need to be turned on or opened)

- Correlator computer: turn ON tan tower under laser table
- Goniometer control: turn ON small box on top of styrofoam
- Coherent laser cooling box: turn ON black box in back corner of table top
  - Use black “On/Off” switch above power cord [not “start/stop” button on top]
- Laser: laser control under table: turn key from “STANDBY” to “ON”
  - Laser power is to remain at 1.00 W; do not adjust power knob
  - If laser display says “Shutter Closed,” open with “Shutter Open” button
- Shutter on laser line: final control before sample chamber; must be opened to allow light into the sample chamber; it is recommended to set up experimental parameters before opening this final shutter.
- Diode control: clockwise lowers diode intensity; counterclockwise raises diode intensity
  - Diode must be adjusted with caution to not over-illuminate the detectors
  - Diode level is indicated in lower right hand corner of software
  - Do not allow counts (in upper right) to blink RED or exceed 500 kcps (whichever is lower)

Schematic: Items in GREEN require attention before operating experiment; item in YELLOW may be used with caution; item in RED must remain ON at all times; do not turn off.
Notes prepared by Sara Hashmi (sara.hashmi@yale.edu)
Hardware: Powering Off  (green elements in image need to be turned on or opened)

- While software is still open:
  - Diode control: turn clockwise to lower diode to ~ 2-4,000
  - **Do not over-rotate diode control knob;** there is no need to lower the diode to 0.
- Close software window
- Shutter on laser line: Close.
- Laser control under table:
  - Close shutter with “Shutter Open” button so laser display says “Shutter Closed”
  - Turn key from “ON” to “STANDBY”
- Coherent laser cooling box: turn OFF black box in back corner of table top
- Goniometer control: turn OFF small box on top of styrofoam
- Correlator Computer: turn OFF tan tower under laser table

**Laser Control**

Schematic: Items in GREEN require attention before operating experiment; item in RED must remain AS-IS; do not adjust. When shutter is open, grey “shutter closed” indication does not appear.

In Case of Emergency, Call 911, or 2-4400 from the phone on the wall in the ALV room.

In case of questions during measurements or instrument usage, contact Sara at 508-596-0683.

Notes prepared by Sara Hashmi (sara.hashmi@yale.edu)