

Precautions

- **No food or drink** are permitted in the lab.
- **DO NOT LOOK DIRECTLY INTO ANY LASER BEAM OR ANY SPECULAR REFLECTION OF A LASER BEAM.** The lasers in the lab put out 2 mW, more than needed for permanent eye damage.
- ***DO NOT touch mirror surfaces, or any optical surface.*** If a component is dirty, please consult the Lab Manager.
- In the diffraction experiment (Exp. 5) do not focus the unattenuated (i.e., not dimmed with a polarizer) laser light to a point on the linear array. Focus the beam on an index card in place of the array, then remove the card after dimming the beam.
- Use special care with the spatial filter pinholes (1-d diffraction experiments use these).
- The curtains around each lab station can easily be pulled out of their tracks. To avoid this, gather the curtain in small bunches and pull a small portion of the curtain at any one time
- Avoid leaning on optical tables.
- Mirrors, lenses should be covered when experiments are finished. When in doubt, ASK FOR INSTRUCTIONS.

Laboratory Work

- Sign in and out on sheets provided with each experiment. Indicate any problems with the equipment so that it can be repaired promptly for use by the next group.
- Suggestion: While in lab, visit the set-up for your choice of next week's experiment. That will help you understand the experiment instructions and get started quickly.