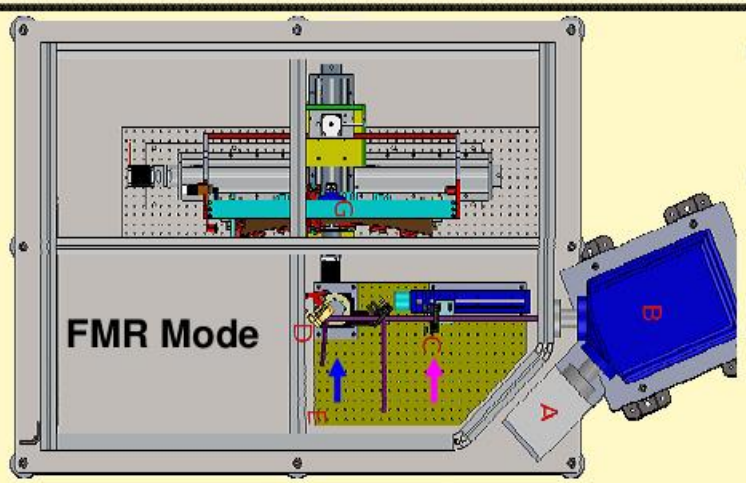
Mirror Measurement Meeting

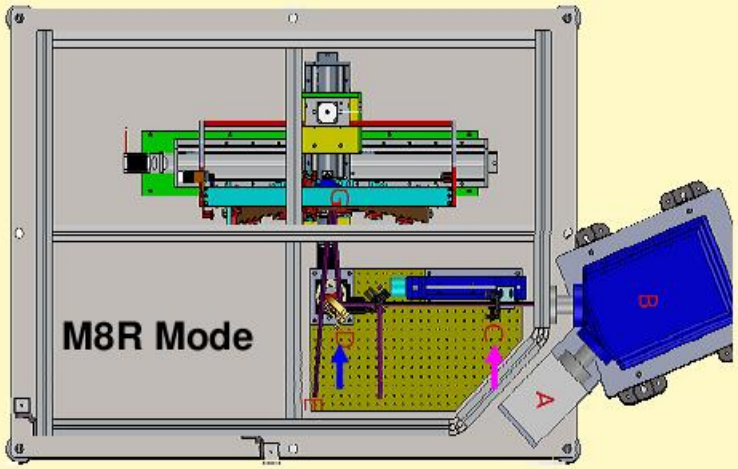
Meeting

- Mon 7 with Justin, Carl, and Drew
- Discussed requirements – the setup should work just fine
  - Fine scanning from 300nm should be no problem
  - Goes up to at least 450nm (eventually brightness is a problem)
- Carl sent me some slides (next page)

Regina's Schematic slide

Measurement Modes





- Wavelength Scan
  - 190-400 nm at 5 nm steps
- 3 Measurement Modes:
  - No Reflection (NR) Mode
    - Light Path: Source → Detector
    - 1 Measurement
  - Flipper Mirror Reflection (FMR) Mode
    - Light Path: Source → Flipper → Detector
    - 8 Measurements
  - Mirror #8 Reflection (M8R) Mode
    - Light Path: Source → Flipper → Mirror #8 → Detector
    - 6 Measurements

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From: http://lichen.phys.uregina.ca/index_files/talks/HGC_mirror_reflectivity.pdf

Challenges

- Currently disassembled – have to find the monochromotor
  - Last used 1 year ago
- Never properly optically isolated – readout is tricky (but doable).
- Measuring at 45 degrees
  - Considered doable
- Measuring underwater reflectivity
  - More of a reach, but not immpossible

Next Steps

- Talking with Garth about reassembling and finding the people who know how to use it
- See what can be done when I am next at Jlab (Jan or Feb for Shifts).