## DIRC Optical Box alignment/fiducialization strawman

- 1. Install and align bar boxes so they are normal to beamline in roll, pitch and yaw.
- 2. Set up optical box on steady surface and level box in roll, pitch and yaw using the bar box attach flange as the datum.
- 3. Install a black flange simulating the size and location of the bar box flange.
- 4. Mark wall with expected location of laser spots at each of five location
- 5. Install laser fixture on glass surface of box. The fixture should have 5 positions (four corners and center.
- 6. Set up laser in center position on wall. Adjust angle of laser and note changes of spot location.
- 7. Set up laser in the other four positions and adjust laser angle until the light no longer makes it out of the optical box flange.
- 8. Fiducialize outer surface of box to bar box attach flange position.
- 9. Fiducialize Bar box to bar box flange.
- 10. Install optical box and align to bar box.

