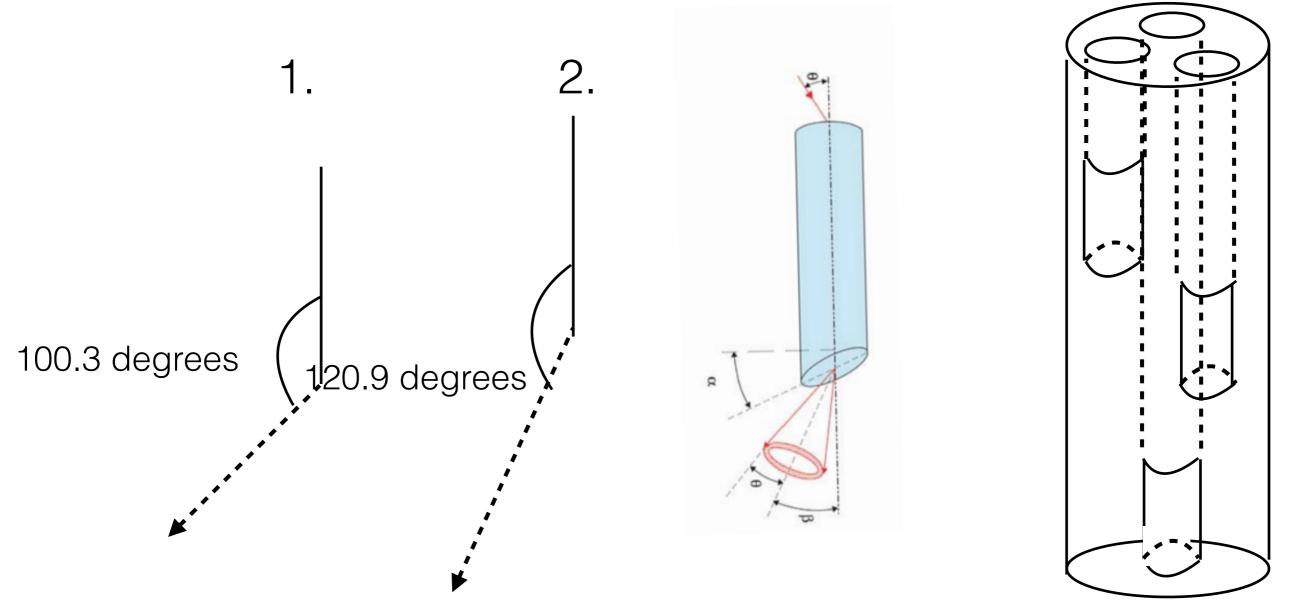
Photo-electron Laser Update RD,Alex Dvornikov, Jelena Maricic, Radovan Milincic

Laser WG Meeting University of Hawai'i 21st Nov. 2019 Optic fiber
Ordered two fibers with 2 different angle polish: 100.3 deg and 120.9 deg. <u>Fiber holder</u>



-manufacture tolerance +/- 2 degrees. Need to test the claim on angle of dispersion.

-PTFE jacket and no end cap.

- Rough design of holder. But will need to see fiber before finalizing.

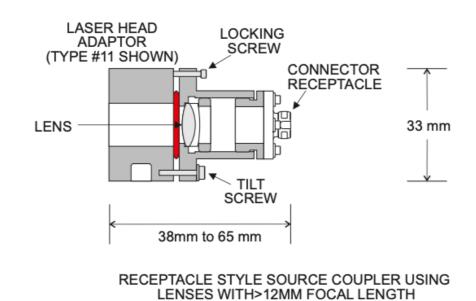
2. Photocathode testing

- Issues with Kurt-Lesker order. Finalized the setup after discussions with technical help asked for quote and then no response
- Explored possible options of working with other groups with necessary equipment/expertise at Hawaii. Did not pan out.
- Recently placed order with Nor-Cal :
- 5 inch vacuum vessel, 4 feedthroughs for HV, temperature and fiber.

3. Laser-Fiber coupling

- Found one Canadian (OZ optics)company to custom make a 266 nm laserfiber coupler. They have the coupler and will put in the laser grade lens of our choice. Quote is higher than we anticipated (\$850). Looking at others.

- Suggestions?



4. Interface with APA Engineers:

- In regular contact with Kyle Zeug. Have email exchange and phone meetings as needed.
- Want to converge on a port for PE laser.
- Have verbal/un-official assurance of port space on couple of ports.
- Kyle was asking about getting a dedicated port? For ProtoDUNE the PD calibration, we swapped a service port with ND250 port supplied by us with CF275 flange/feedthroughs for SMA fibers. Similar option for PE-Laser? Any suggestions?