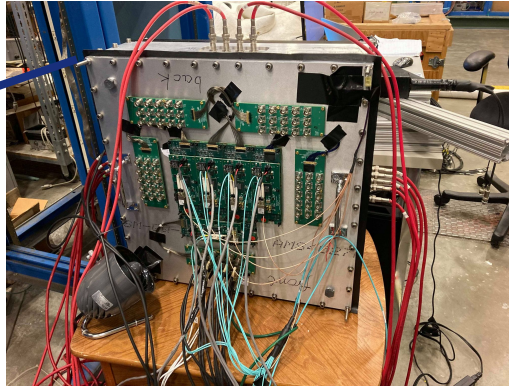


Measurement of Cherenkov tank

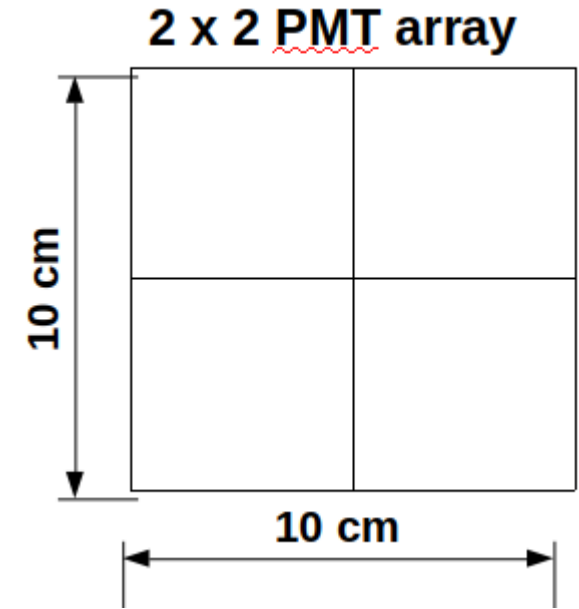
Fig 1: Cherenkov Tank



SoLID box



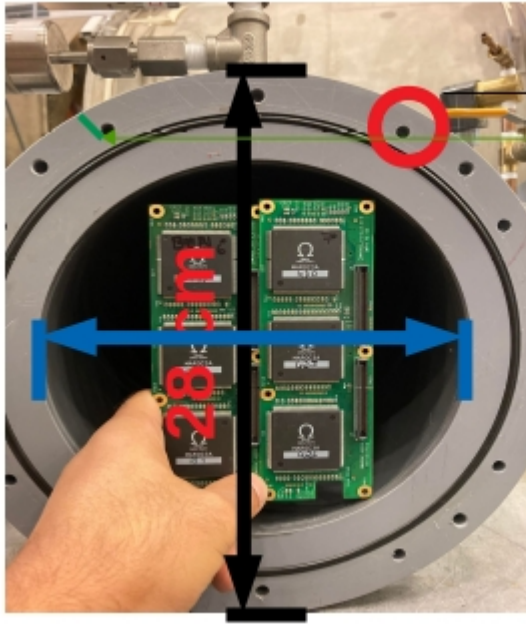
Plan is to fit the box at end cap



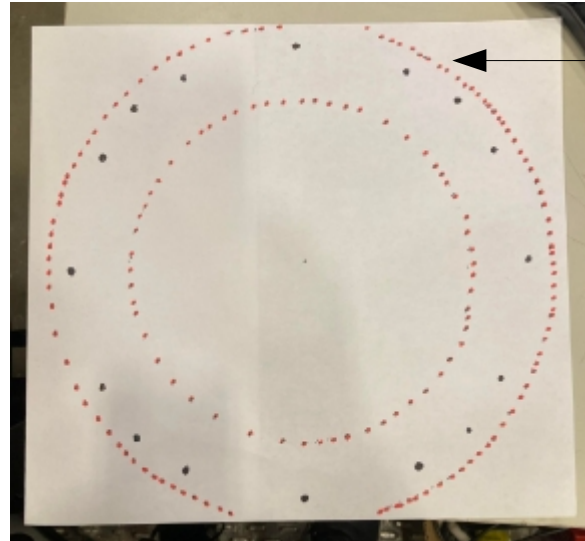
- Distance for light to travel = 152 cm
- With our box to hold pmt (SoLID), additional 13 cm is add for light to travel
- In solid setup total path length = $152 + 13 = 165$ cm
- Expected radius of Cherenkov ring with Co2 (1.00045) = 5 cm

Measurement of Cherenkov tank

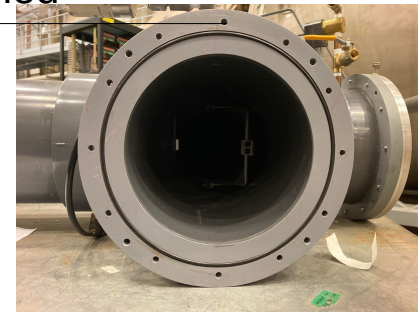
Fig 2: Window to hold end cap



- Diameter of hole = 0.5 cm
- Distance between outer edge to center of hole = 1.1 cm
- External diameter: 28 cm
- Internal diameter: 19.2 cm

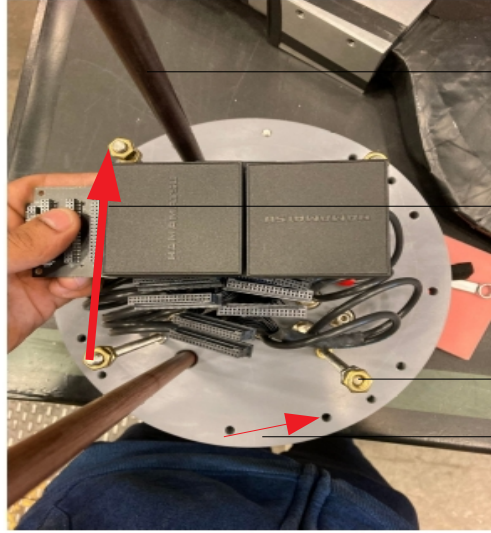


Holes position are sketched
On piece of paper



Measurement of Cherenkov tank

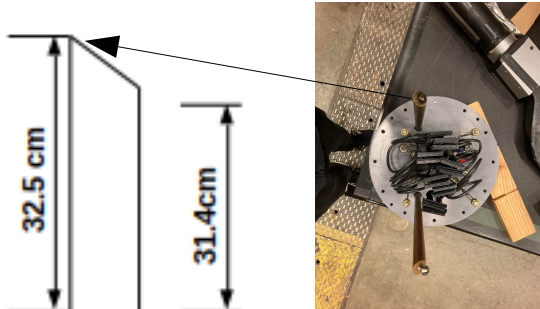
Fig 3: End cap to hold electronics



- ▶ Height of wooden stick to hold mirror=31.4, 32.5 cm
- ▶ Distance between the screws =11.5 cm
- ▶ • Height of screw from surface to end cap =14.5 cm
- ▶ • Have sketch of these holes position on the paper (measured the position of 16 holes)

Top of the wood stick is wedge (so we have two height as shown in cartoon

Wooden stick



Measurement of Cherenkov tank

Distance from entrance end to window (distance light travels)	152 cm
Distance between screws (holding PMT)	11.5 cm
Height of screw	14.5 cm
Length of wooden stick (to hold mirror)	32.5, 31.4 cm
Inner diameter	19.2 cm
Outer diameter	28 cm
Diameter of holes to fit screws (to hold end cap on window	0.5 cm
Distance from outer diameter to hole center (screw hole)	1.1 cm
Height from PMT surface to top of Solid box	13 cm
Expected radius	5 cm