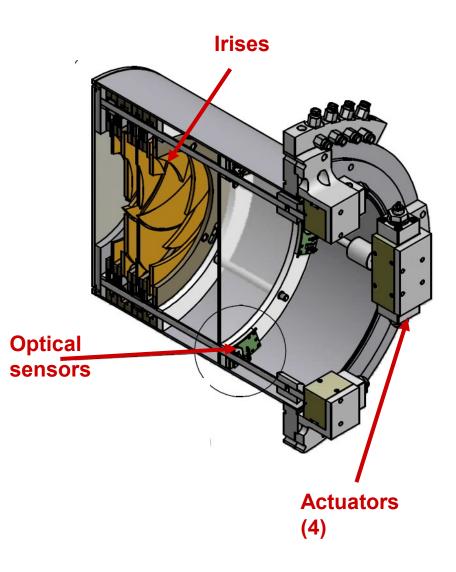
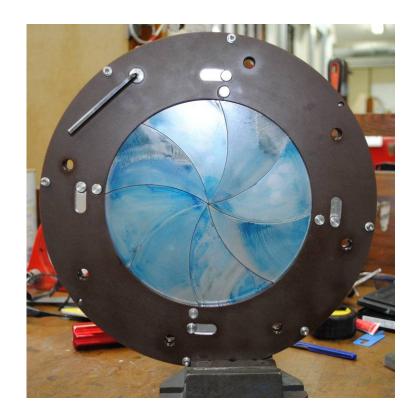
DIFFUSER CM29





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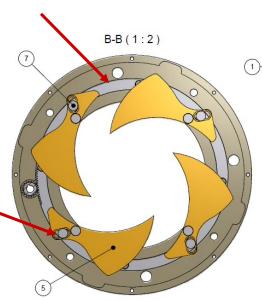
- About 75 80 percent complete
 - Materials in hand
 - All Tufnol cassettes made
 - 2 sets brass petals (3mm & 6mm) made
 - 6mm brass cassette assembled & tested by hand
 - Drum being machined
 - Four home-made non-magnetic actuators made; one tested
 - PCBs for opto-sensors made & stuffed
 - Mods to electronics crate ~ finished
 - Not committed to final front panel yet (cosmetics)
 - Still to finalise design of air crate
 - Need some experience of pneumatic actuators
- Progress limited by
 - Availability of effort / CNC machines / my availability to chase

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Technical problems

- 1. Proved tricky to machine 4mm thick SS "inner rings"
 - Aluminium not good enough
 - Need to grind machined SS flat
- 2. Tolerances of slots in petals are tricky
 - Long lever arm to centre
 - 0.05 mm gets multiplied by ~8 when closed
 - Unsightly gaps at centre (bad teeth!)
 - ~1% physics problem
 - Mainly annoying
 - But may be worse with Tungsten
 - Examining solutions

We want to play with some slots & holes in some gash tungsten before cutting the petals – expensive material



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SCHEDULE



Main hold up is availability of effort (including me & V.B.) & machines

Mechanics finished "not before Easter" (24 April)

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