

Precession Angle VS Deployable Extension Shields for 1.4m Open and 1.2m Cross Dragone

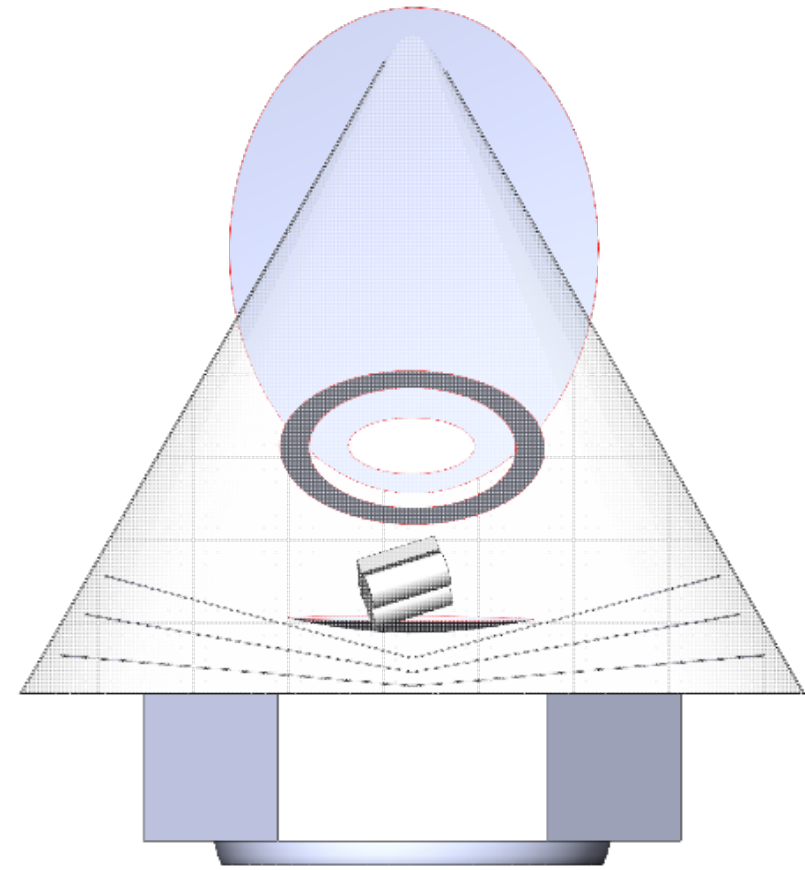
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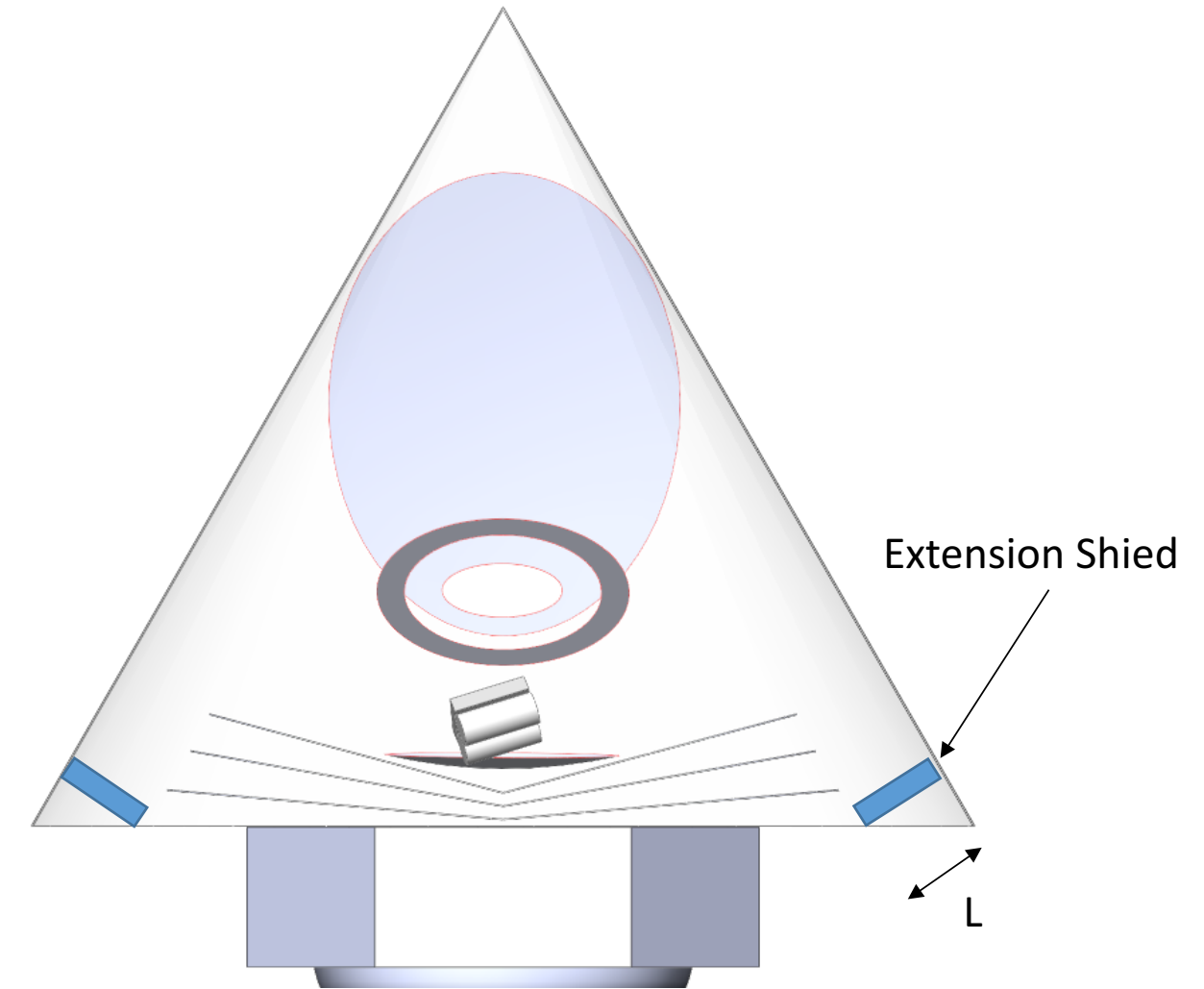
- Without any extension shield, precession angle $\alpha = 22$ deg, not optimal for scanning.
- Study what precession angle that can be achieved, if there is possibility having deployable extension shield.
- Examples in page 3,4 will show the procedure with $\alpha = 30$ deg;
- Tables in page 5,6 will summarize the Alpha vs Extension Shield, assuming the shortest extension shield.

Open Dragone

$\alpha = 30 \text{ deg}$



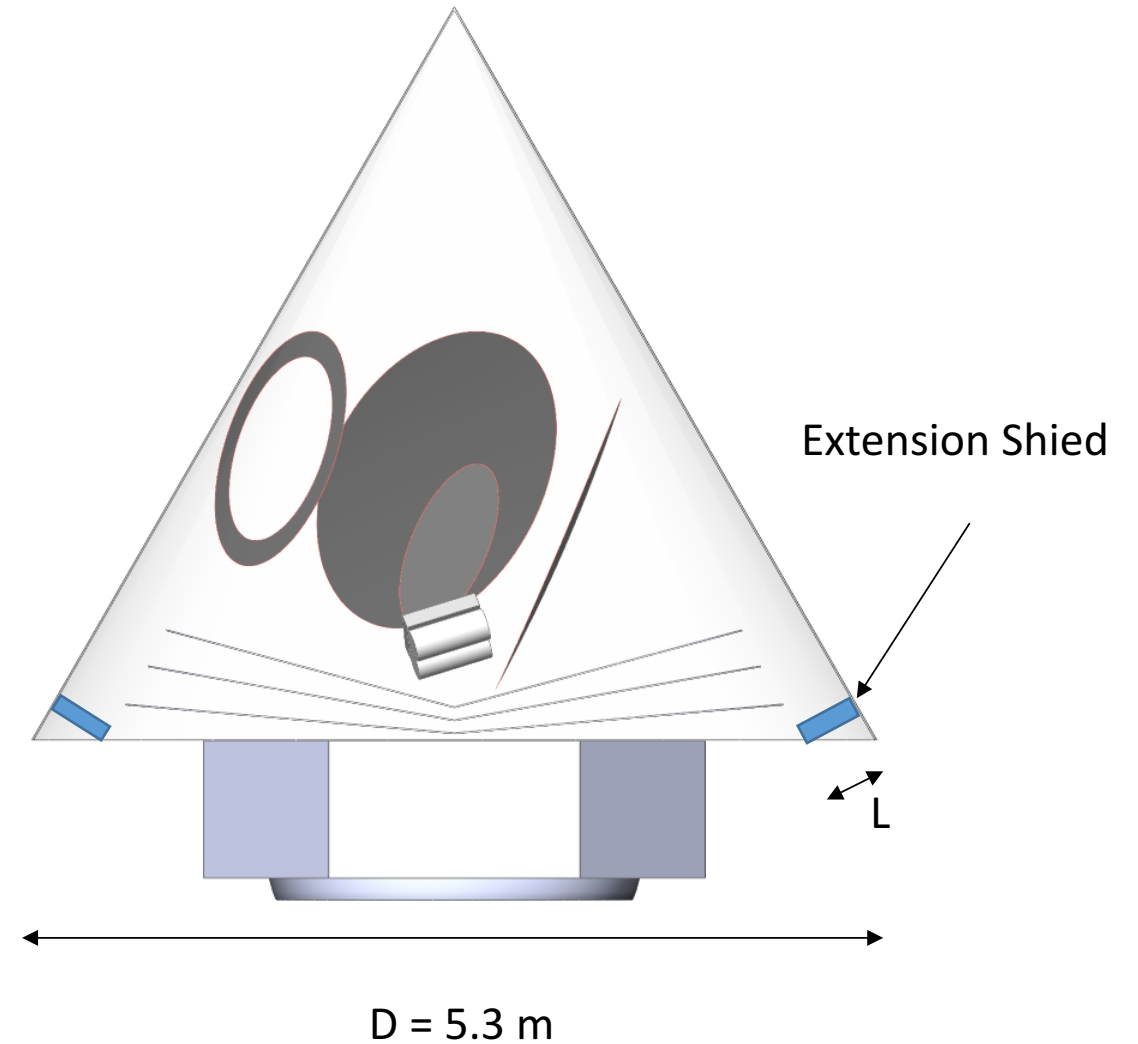
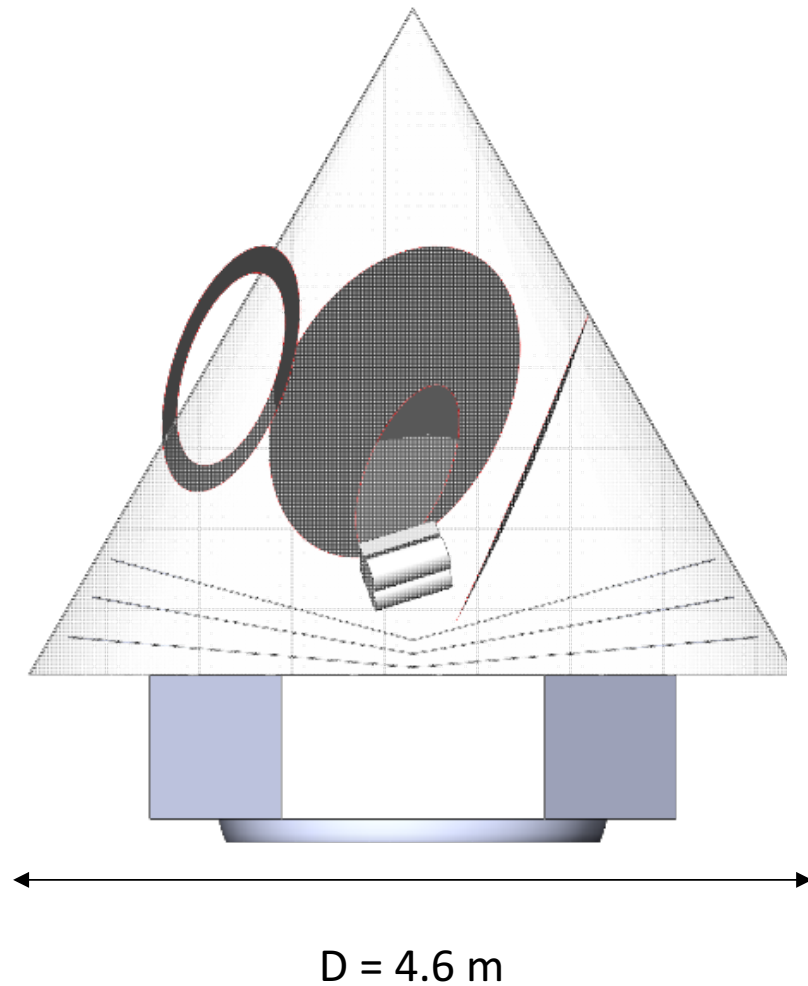
$D = 4.6 \text{ m}$



$D = 5.8 \text{ m}$

Cross Dragone

$\alpha = 30 \text{ deg}$



Open Dragone

Alpha [deg]	D [m]	L [m]
22	4.6	0
30	5.8	0.30
35	6.7	0.60
40	7.8	1.05
45	8.8	1.50
50	10.5	2.25

Cross Dragone

Alpha [deg]	D [m]	L [m]
22	4.6	0
30	5.3	0.20
35	5.8	0.35
40	6.4	0.60
45	7.2	1.00
50	8.2	1.40