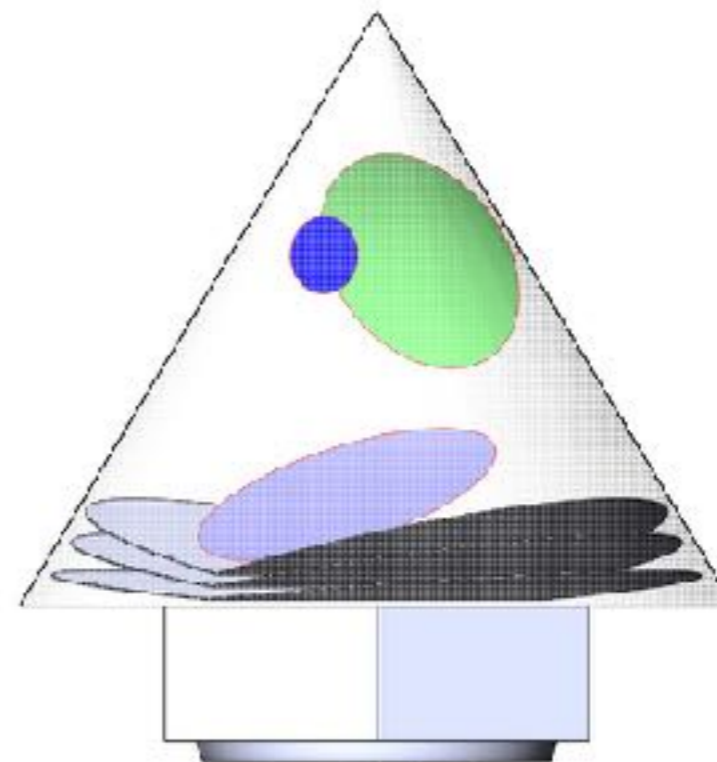
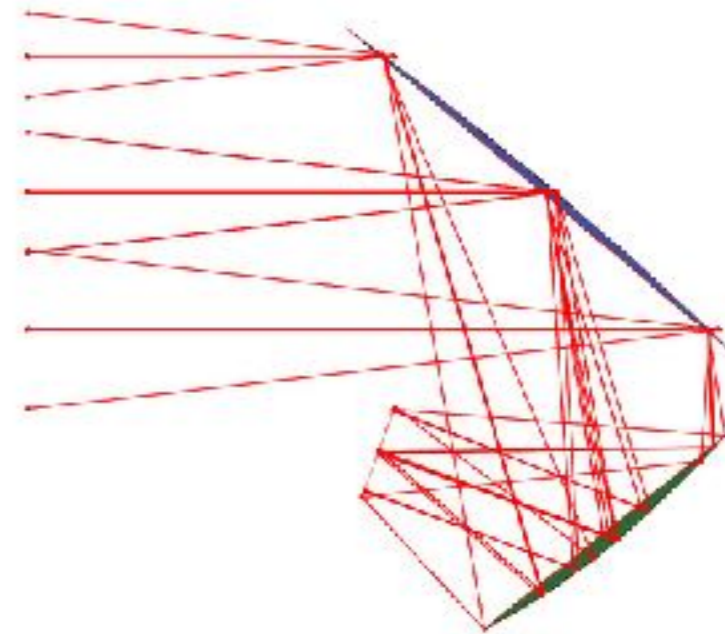
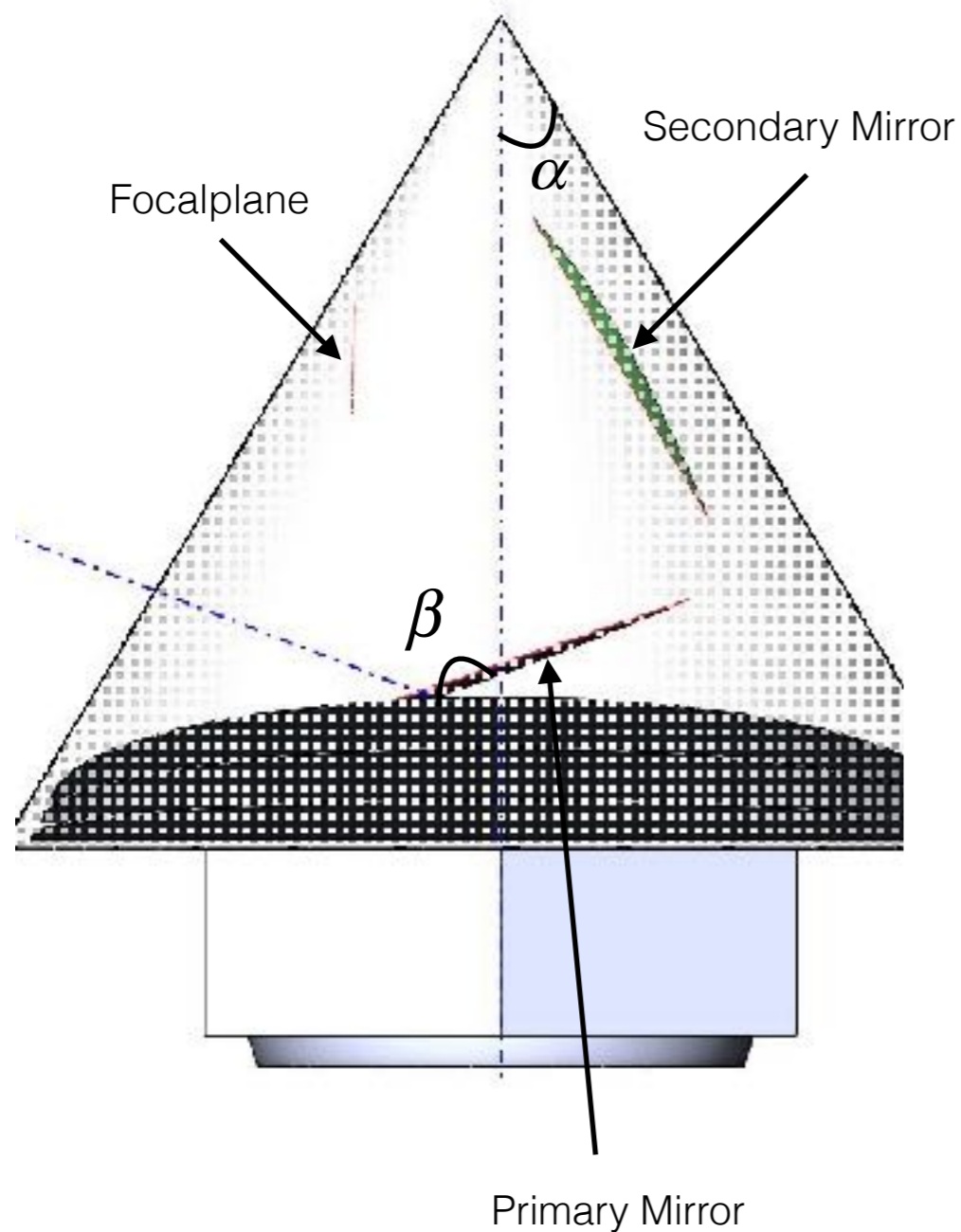


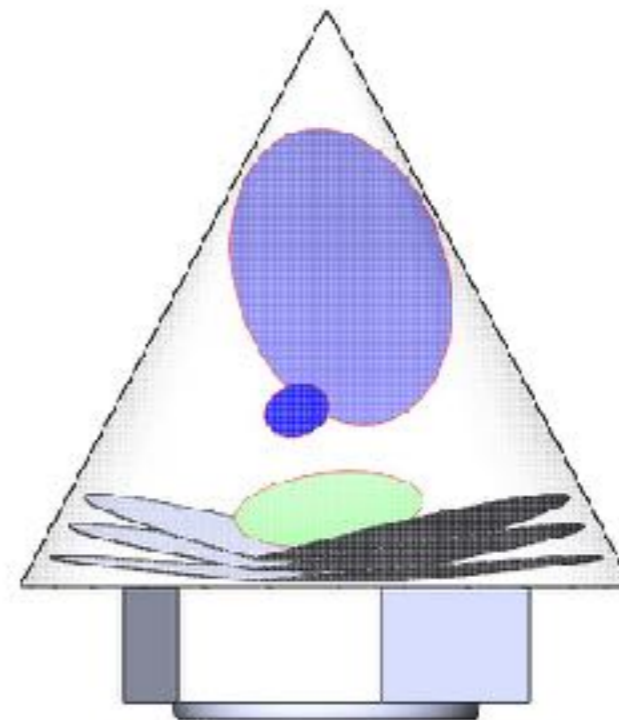
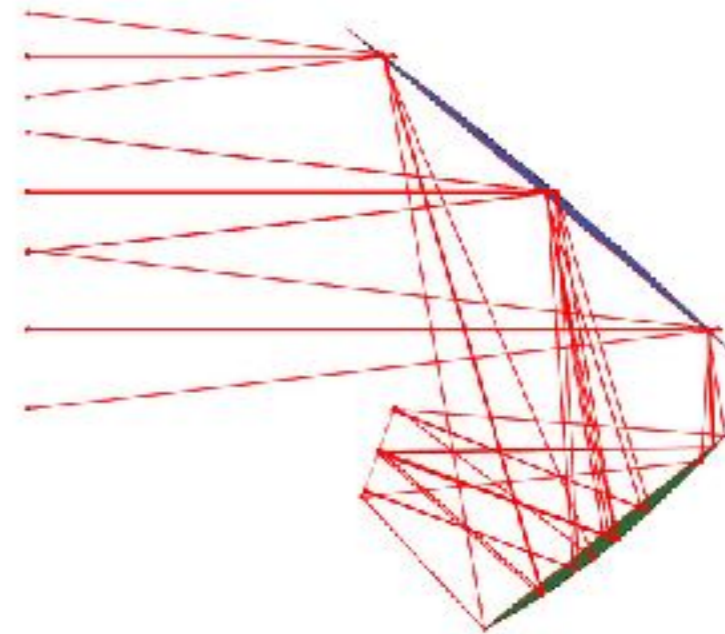
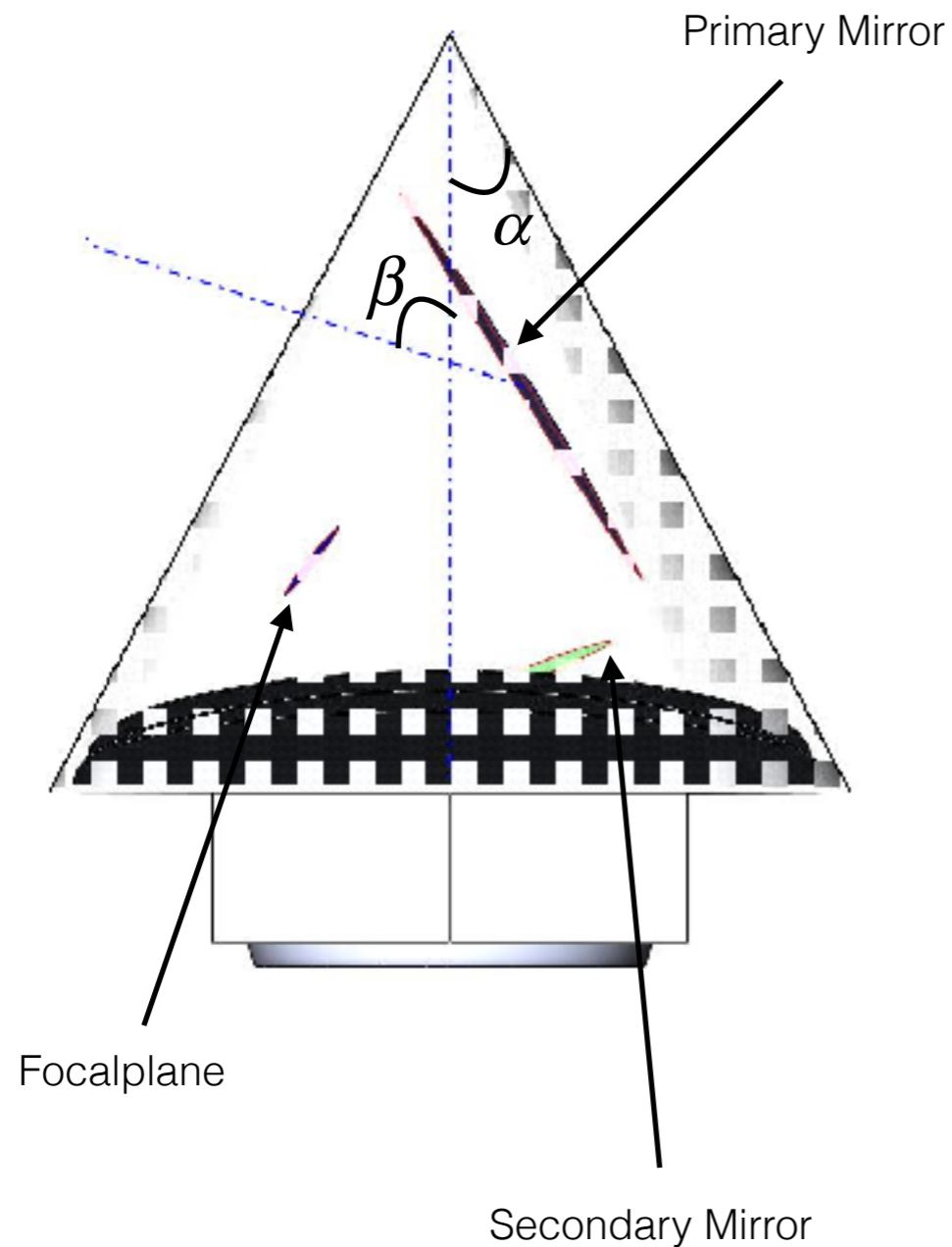
Better Packing for Open Dragone

Shaul Hanany, Xin Zhi Tan, Qi Wen, Karl Young
Jul 31, 2017

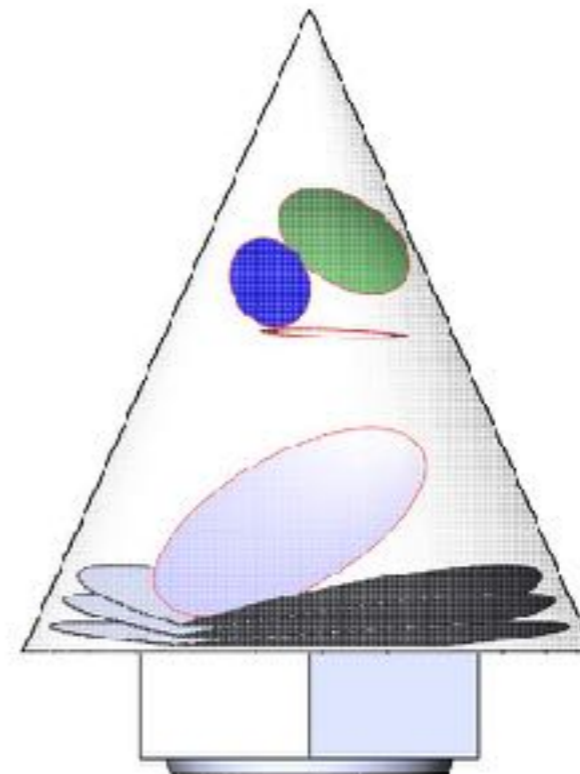
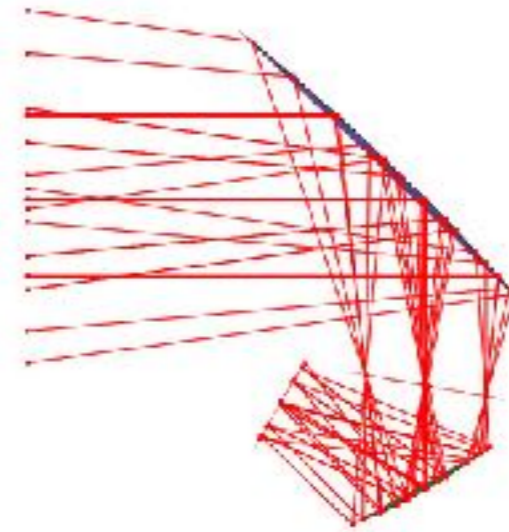
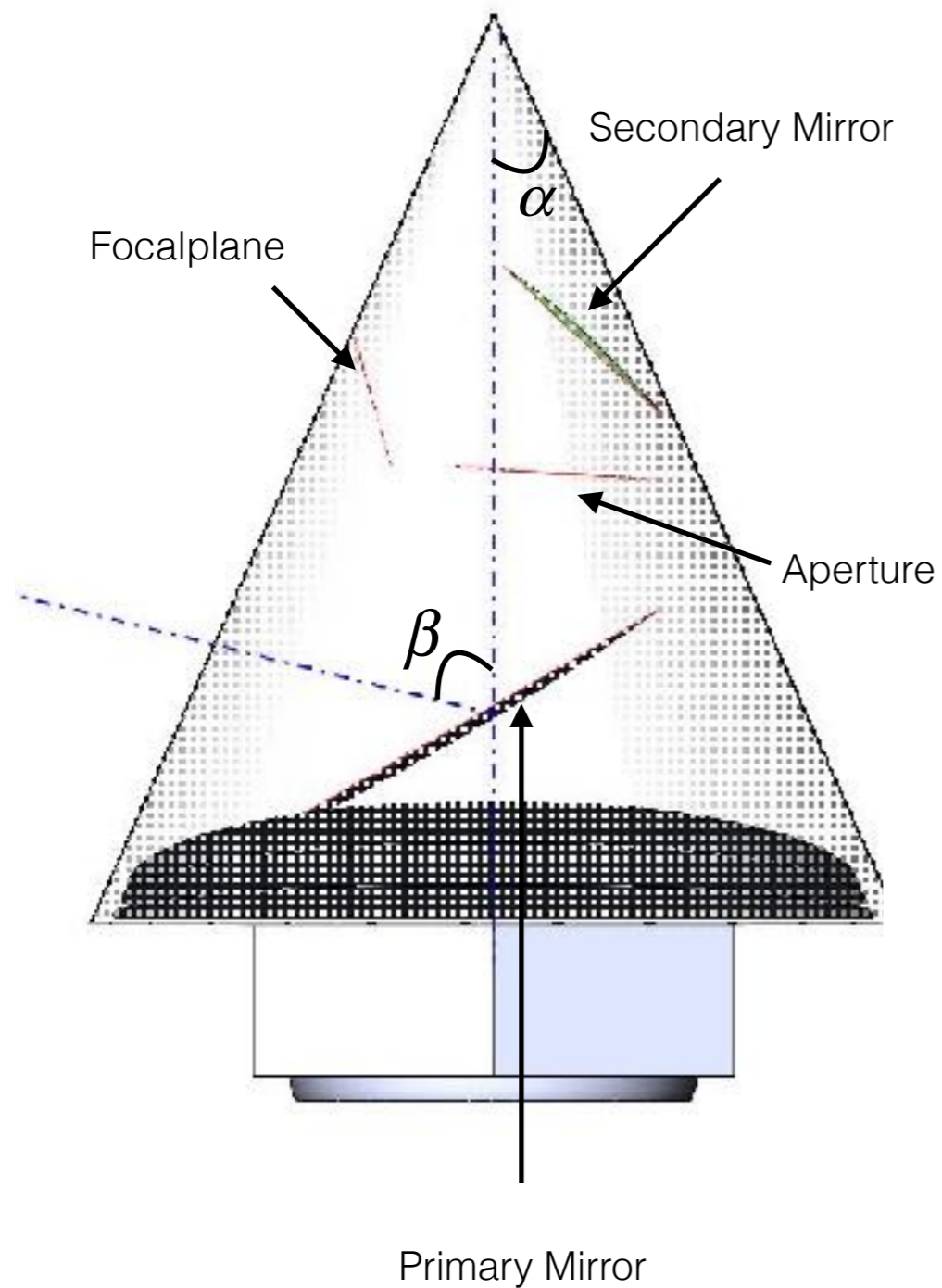
Last Week: Open dragone, stop at primary mirror, aperture = 1.4 m
 $\alpha = 31 \text{ deg}$, $\beta = 69 \text{ deg}$
Focal plane is high



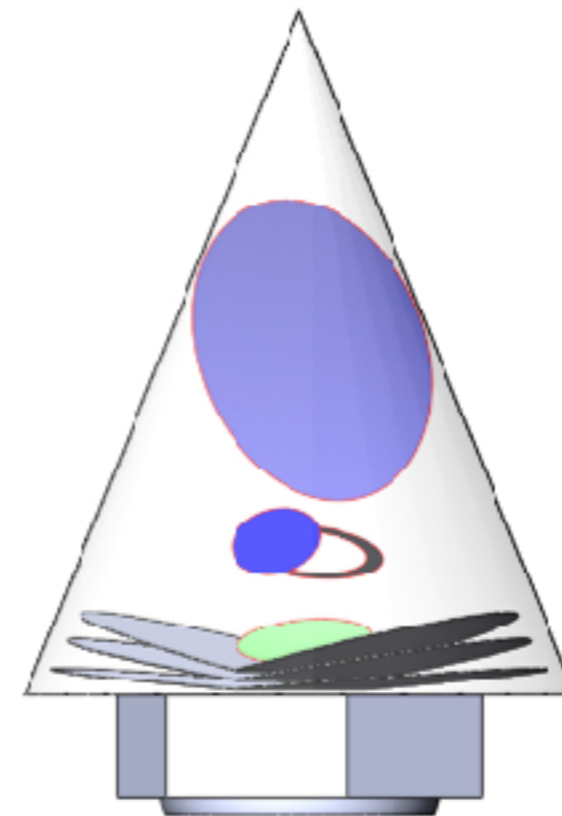
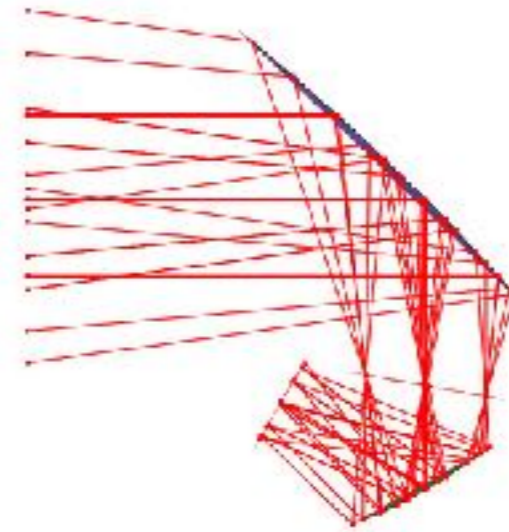
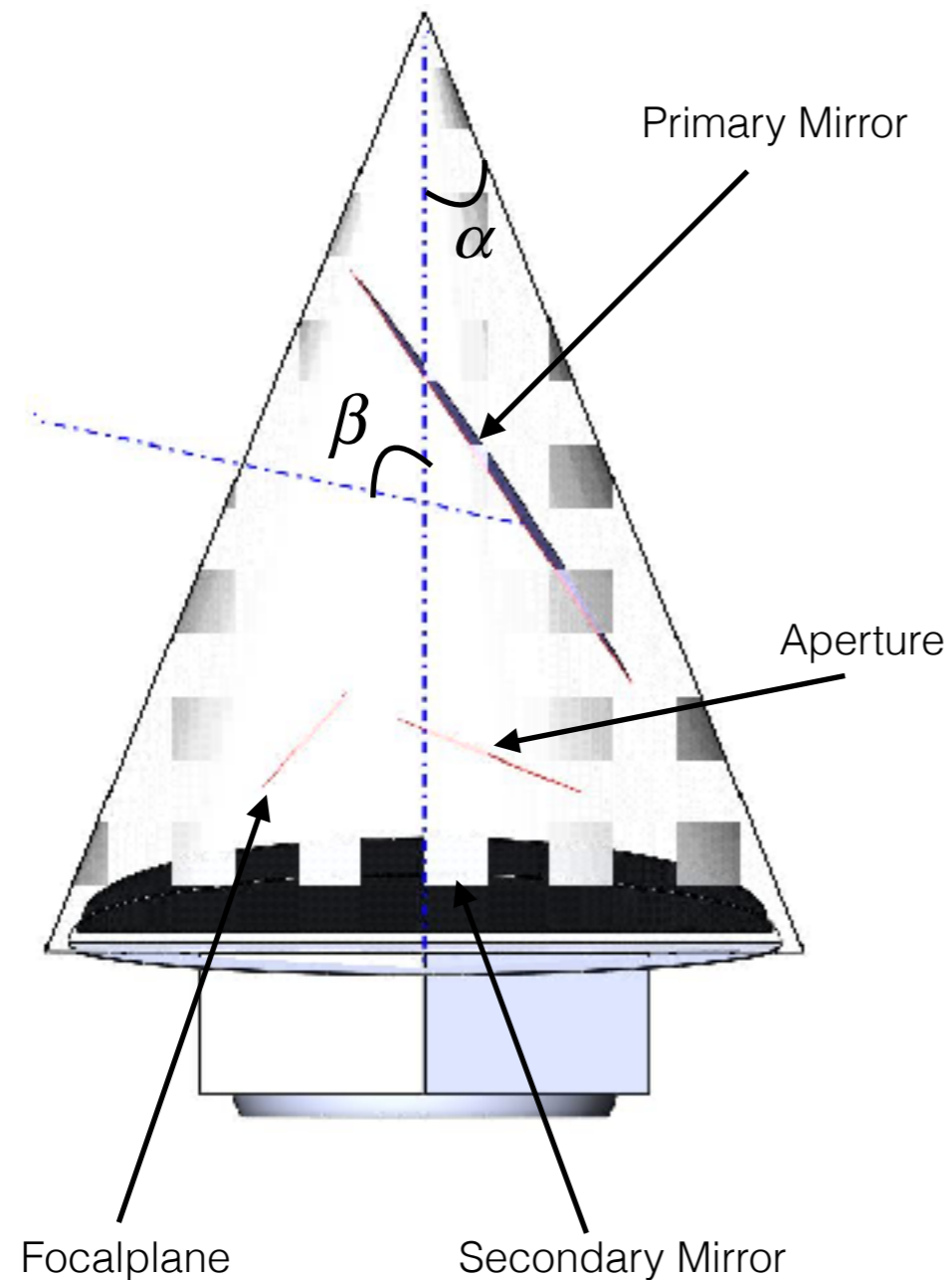
Open dragone, stop at primary mirror, aperture = 1.4 m
 $\alpha = 28$ (31) deg, $\beta = 72$ (69) deg
Focal plane is low



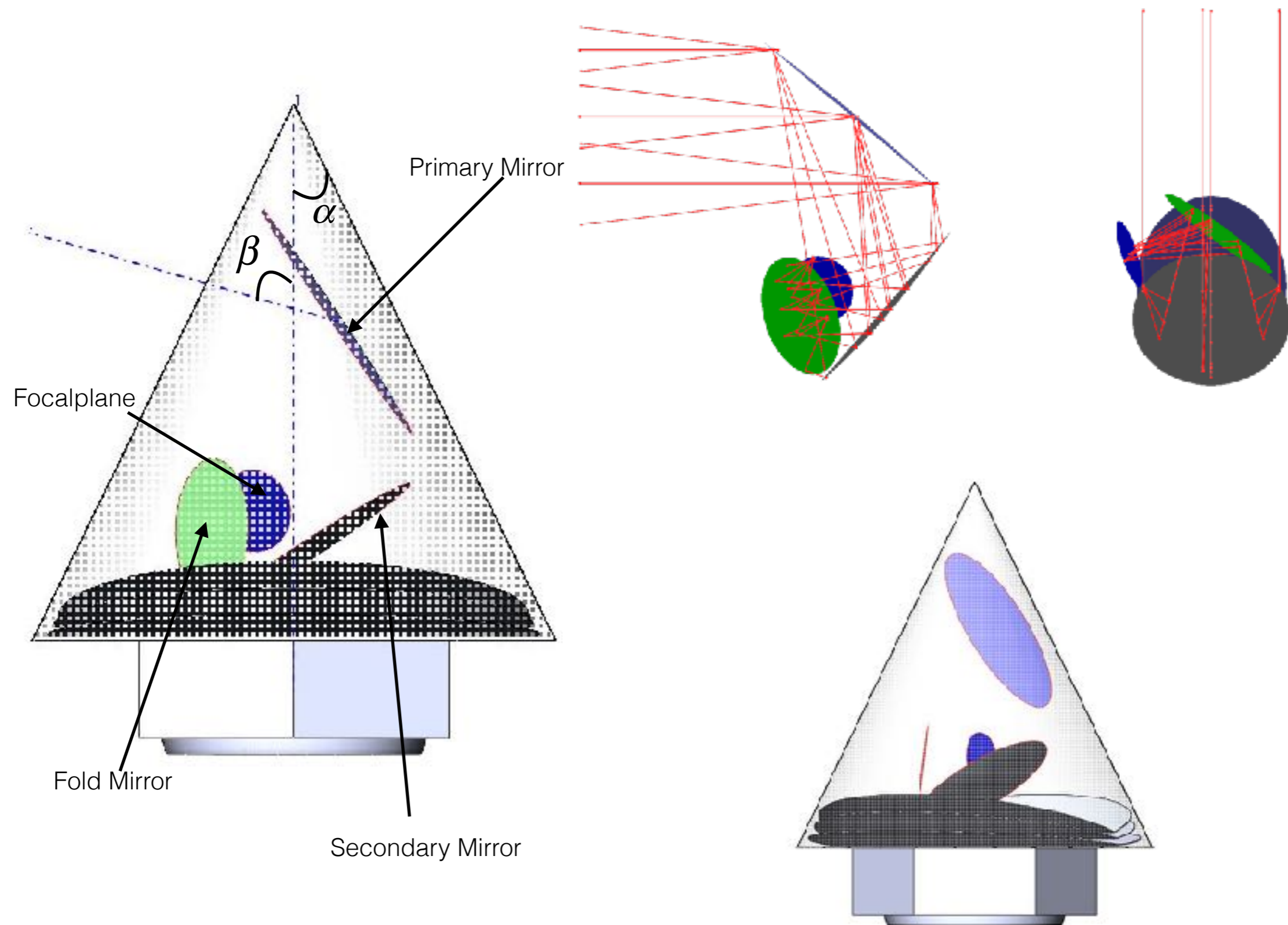
Last Week: Open dragone, stop between mirrors, aperture = 1.4 m
 $\alpha = 24 \text{ deg}$, $\beta = 76 \text{ deg}$
Focal plane is high



Open dragone, stop between mirrors, aperture = 1.4 m
 $\alpha = 22$ (24) deg, $\beta = 78$ (76) deg
Focal plane is low



(Fixed Rays) Open dragone, fold mirror, aperture = 1.4 m
 $\alpha = 26 \text{ deg}$, $\beta = 74 \text{ deg}$



Cross Dragone

Aperture / m	α / deg	β / deg	$\alpha+\beta$ / deg
1.0	36	64	100
1.2	30	70	100
1.4 (EPIC-IM)	22	78	100
1.6	15	85	100

Open Dragone

Aperture / m	α / deg	β / deg	$\alpha+\beta$ / deg
PR_stop_FPhigh	31	69	100
PR_stop	28	72	100
Mid_stop_FPhigh	24	76	100
Mid_stopw	22	78	100
Fold mirror	26	74	100