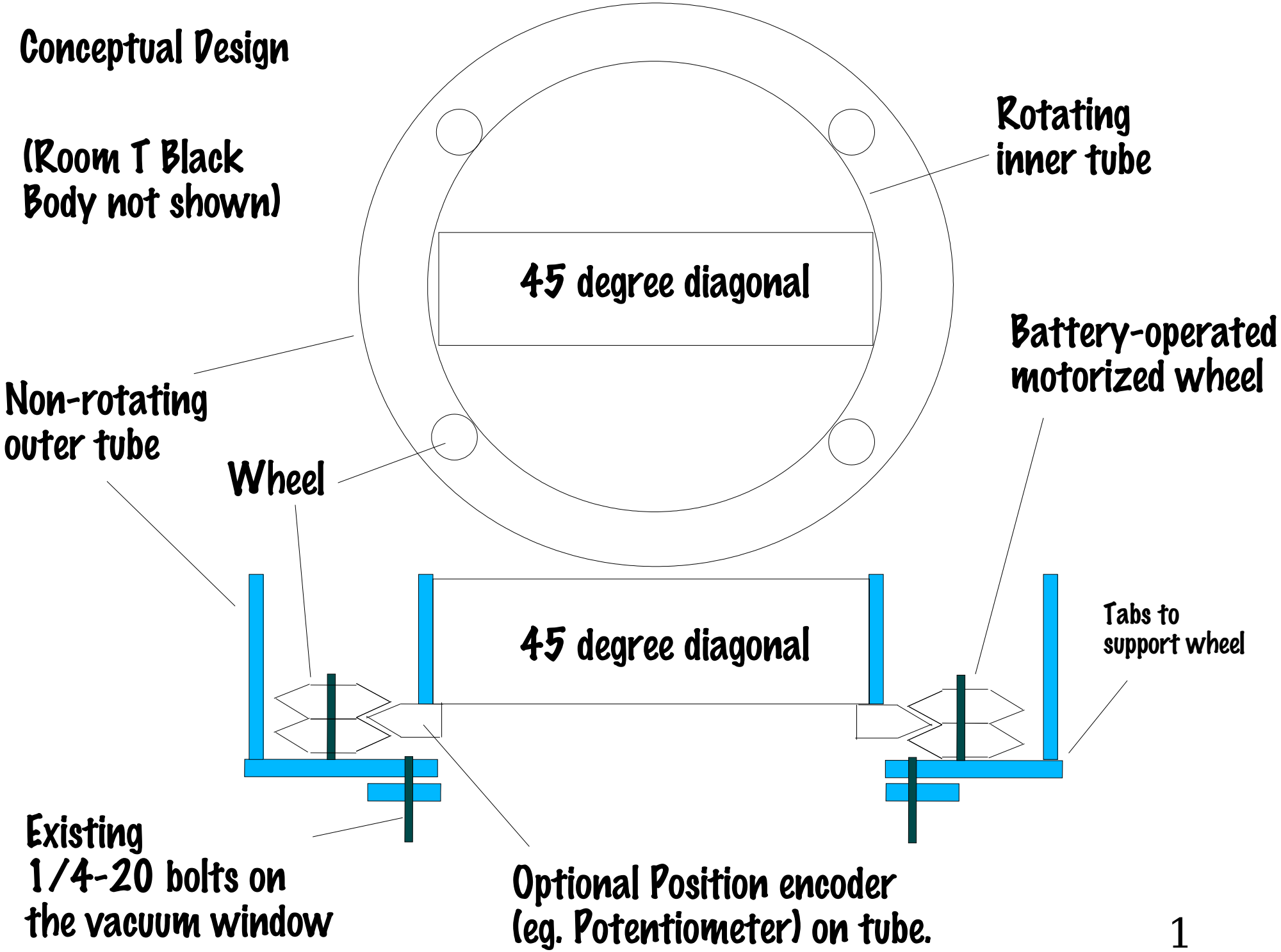
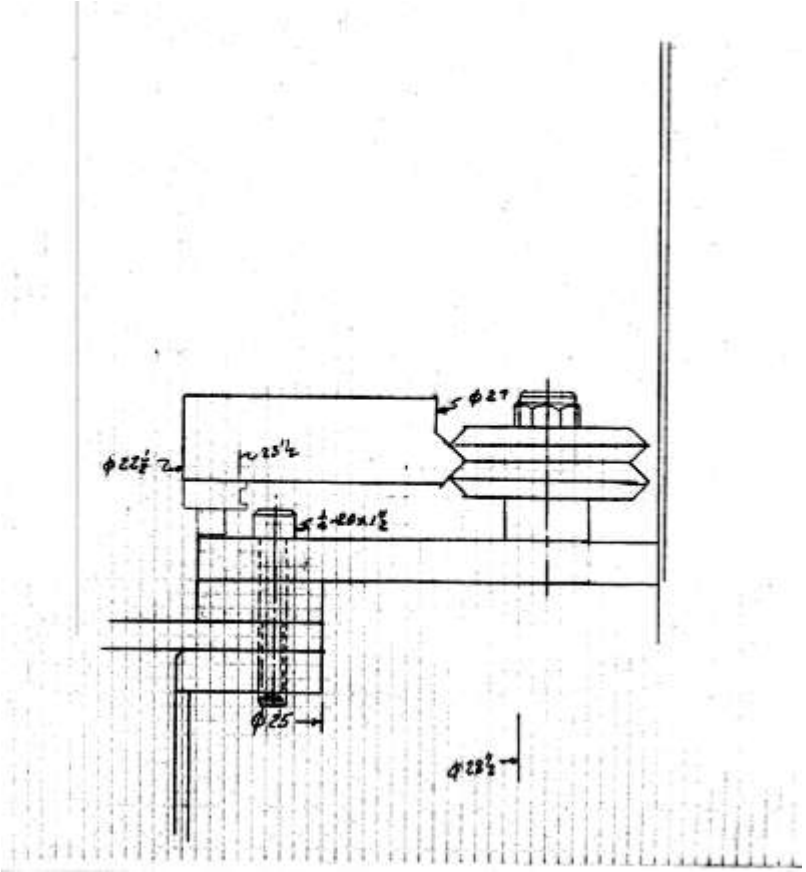
Conceptual Design

(Room T Black Body not shown)

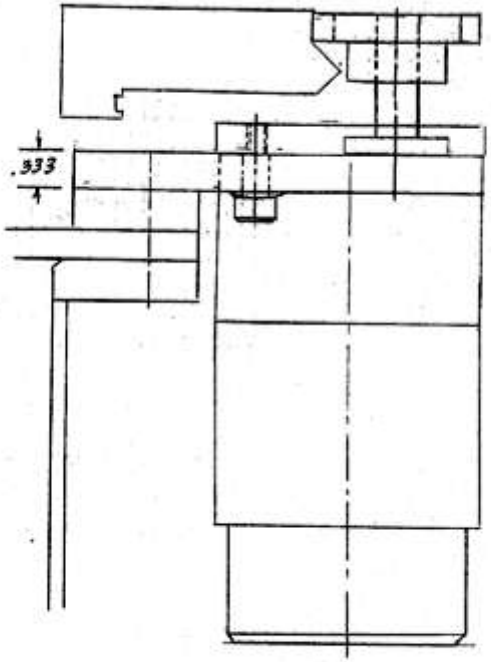


Parameters	Baseline Goal	Stretch Goal
Mounting Scheme	Uses 4 bolts on the window holder	-
45 degree diagonal	Interchangable between wiregrid and dielectric sheet	-
diagonal size	covers 2x size of central horn	covers 4x of central horn
Motor	Brushless DC Motor	Battery Operated
Operating style	Manual on/off switch	-
Rotation Speed	1 revolution in ~11 sec	-
Position Readback	None	Potentiometer

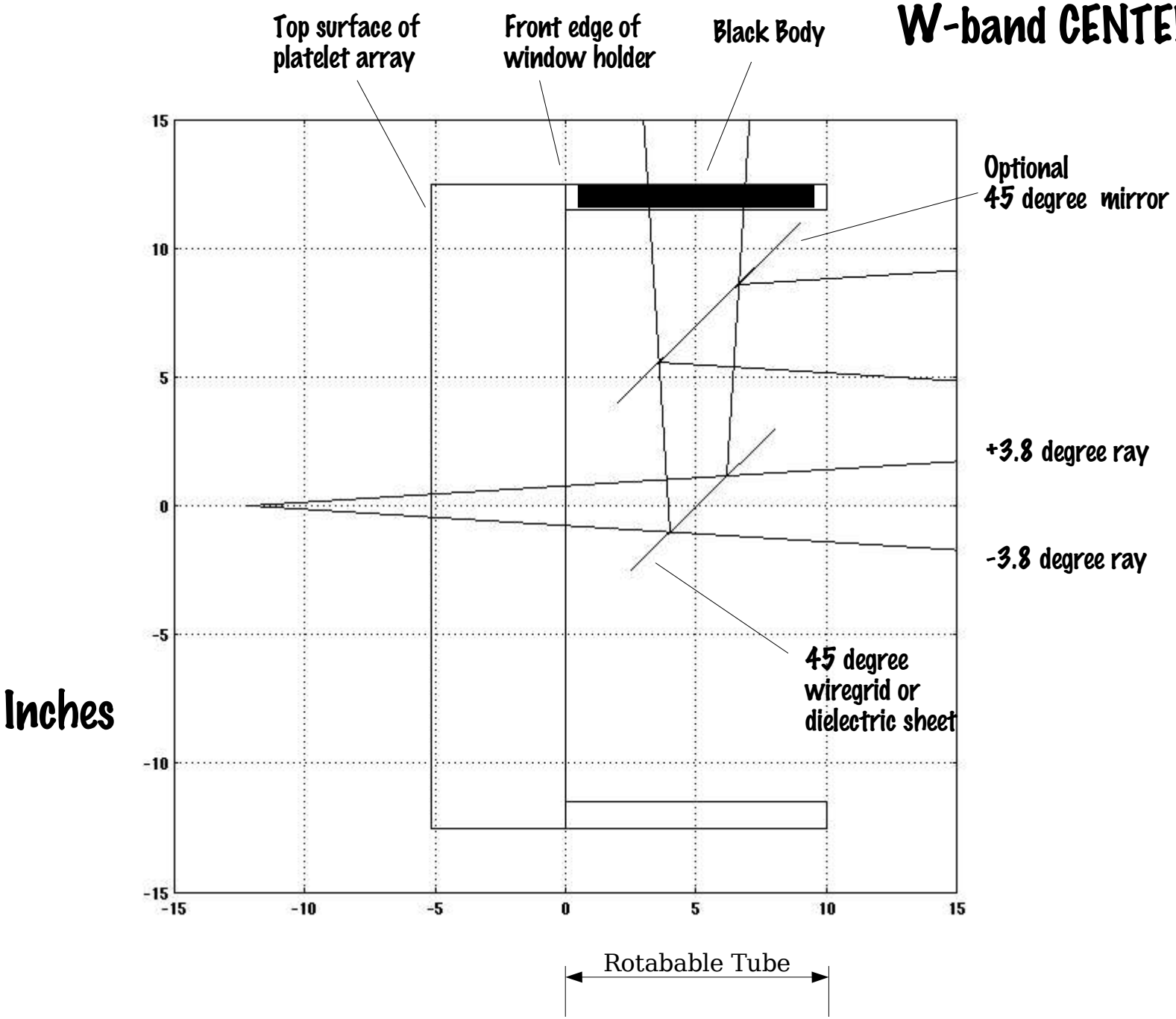
Wheel and Mounting Detail



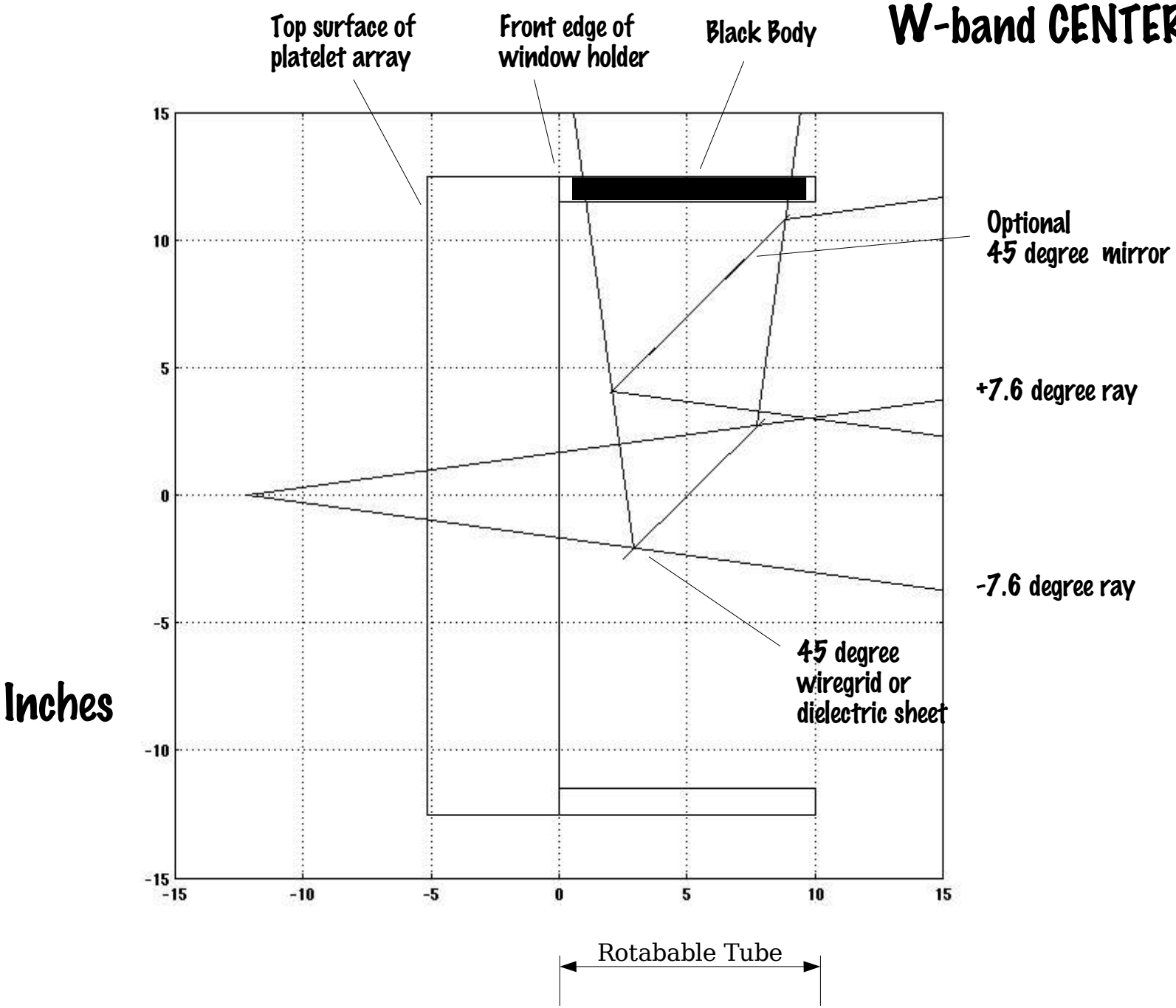
Motor Detail



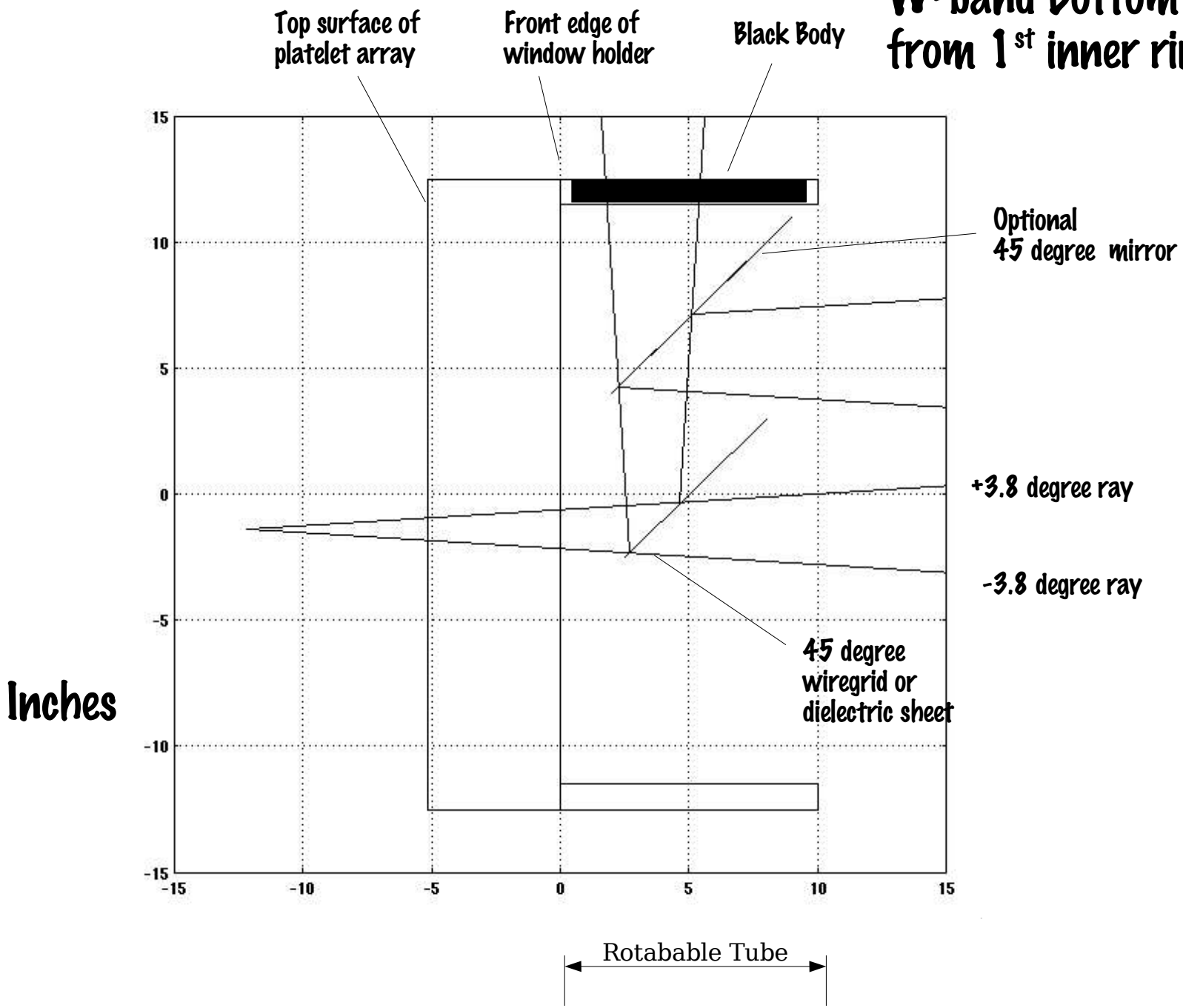
W-band CENTER HORN



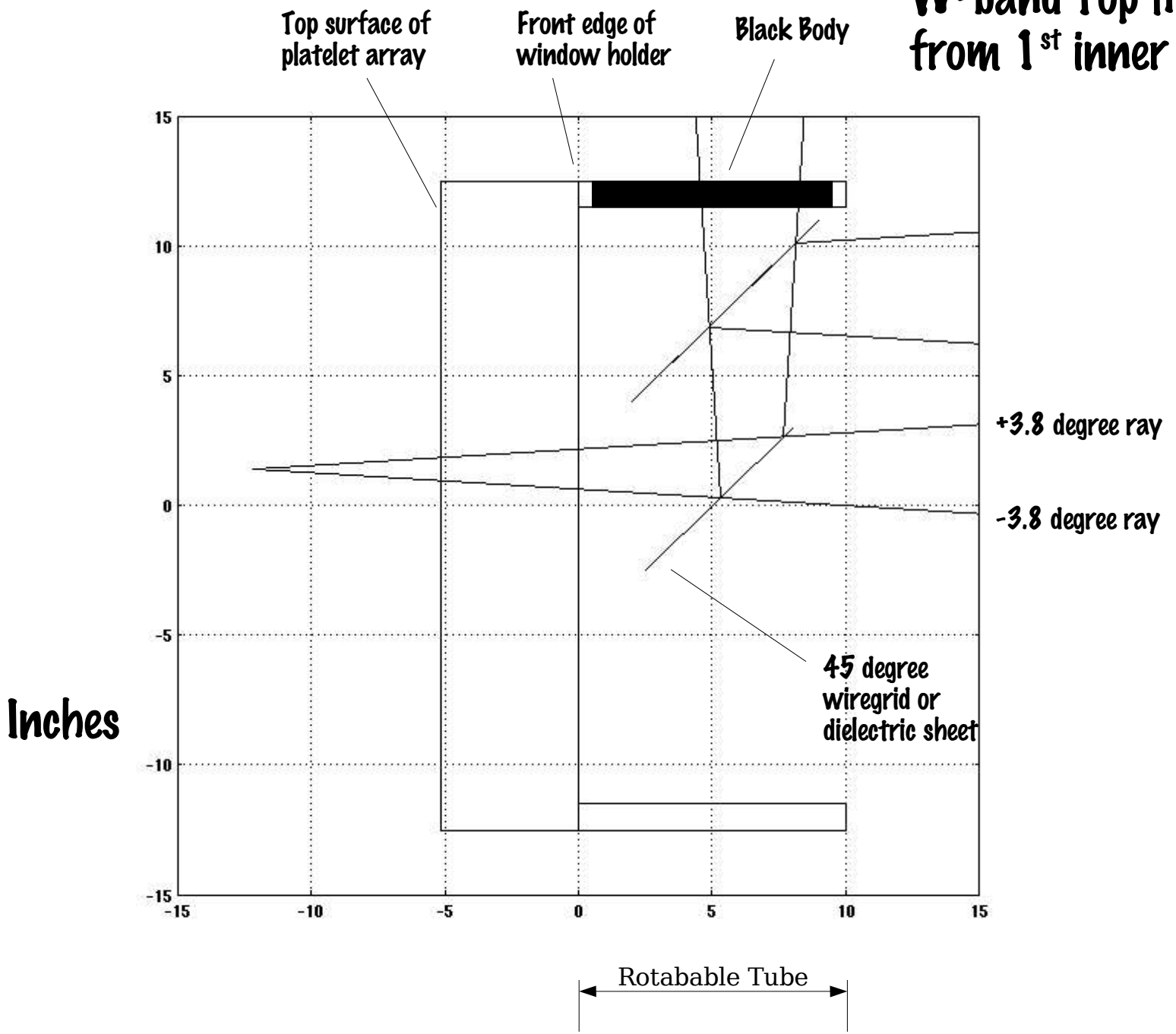
W-band CENTER HORN

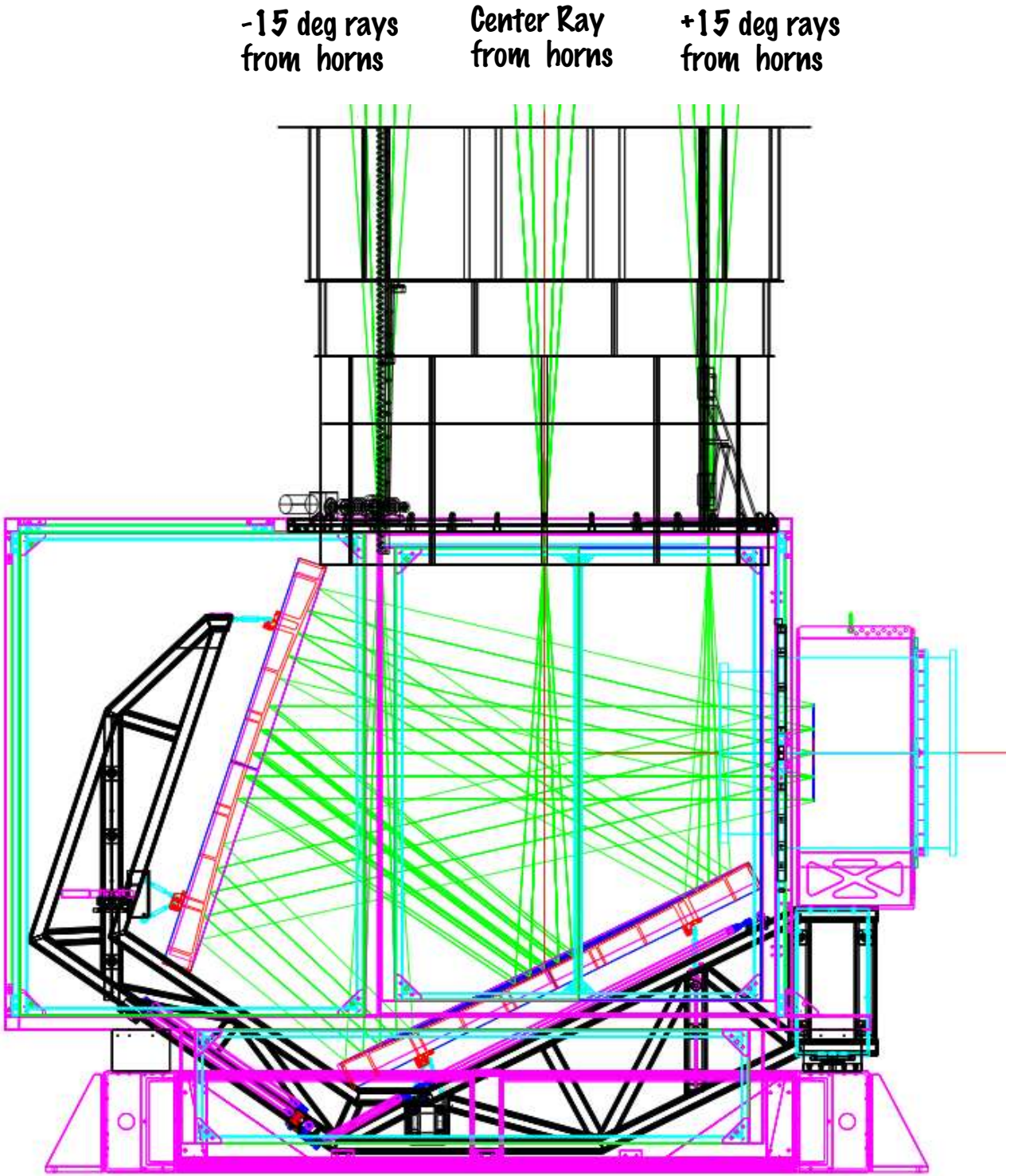


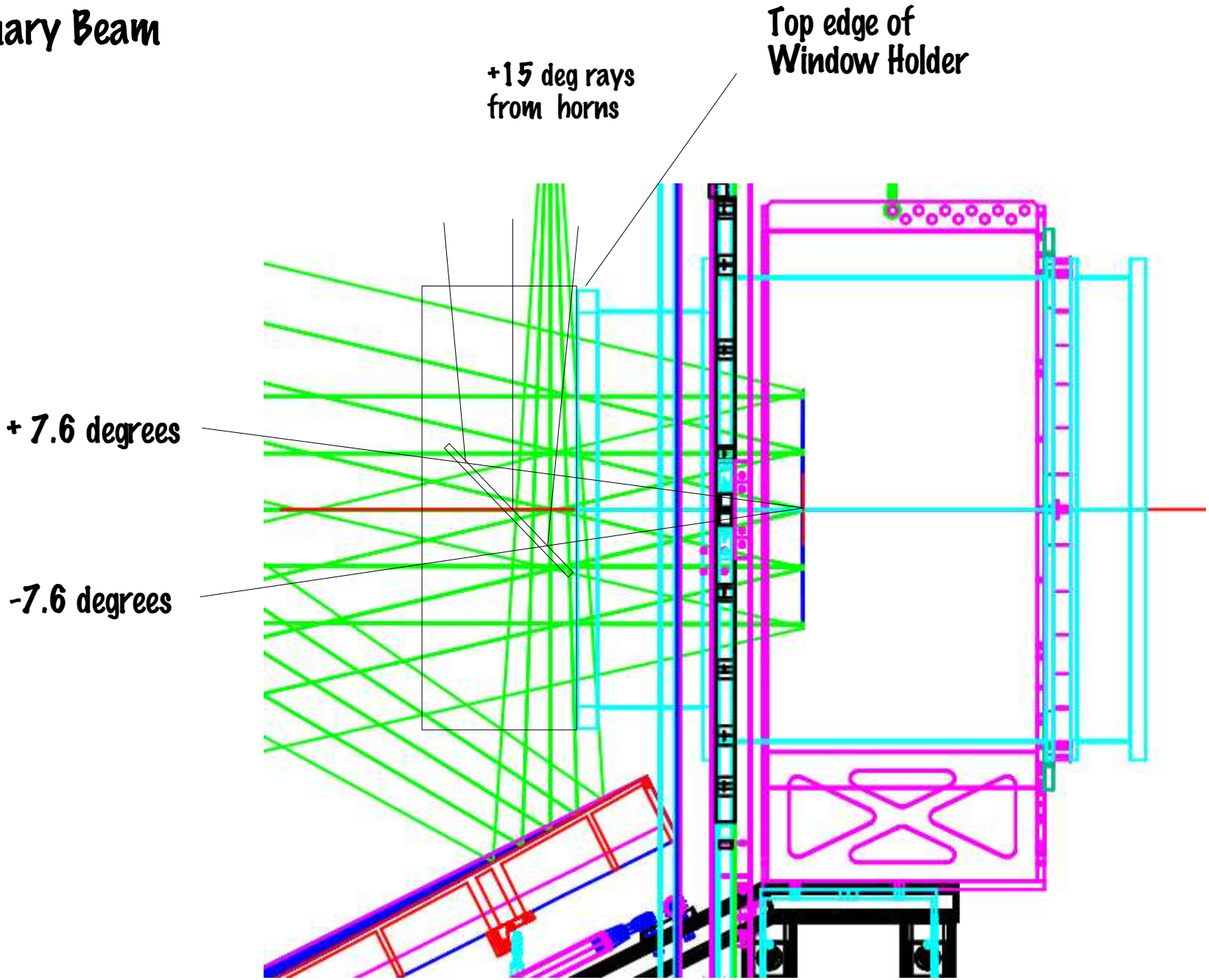
W-band Bottom Horn from 1st inner ring



W-band Top Horn from 1st inner ring





Ray Trace Picture from Keith

Interference with Primary Beam