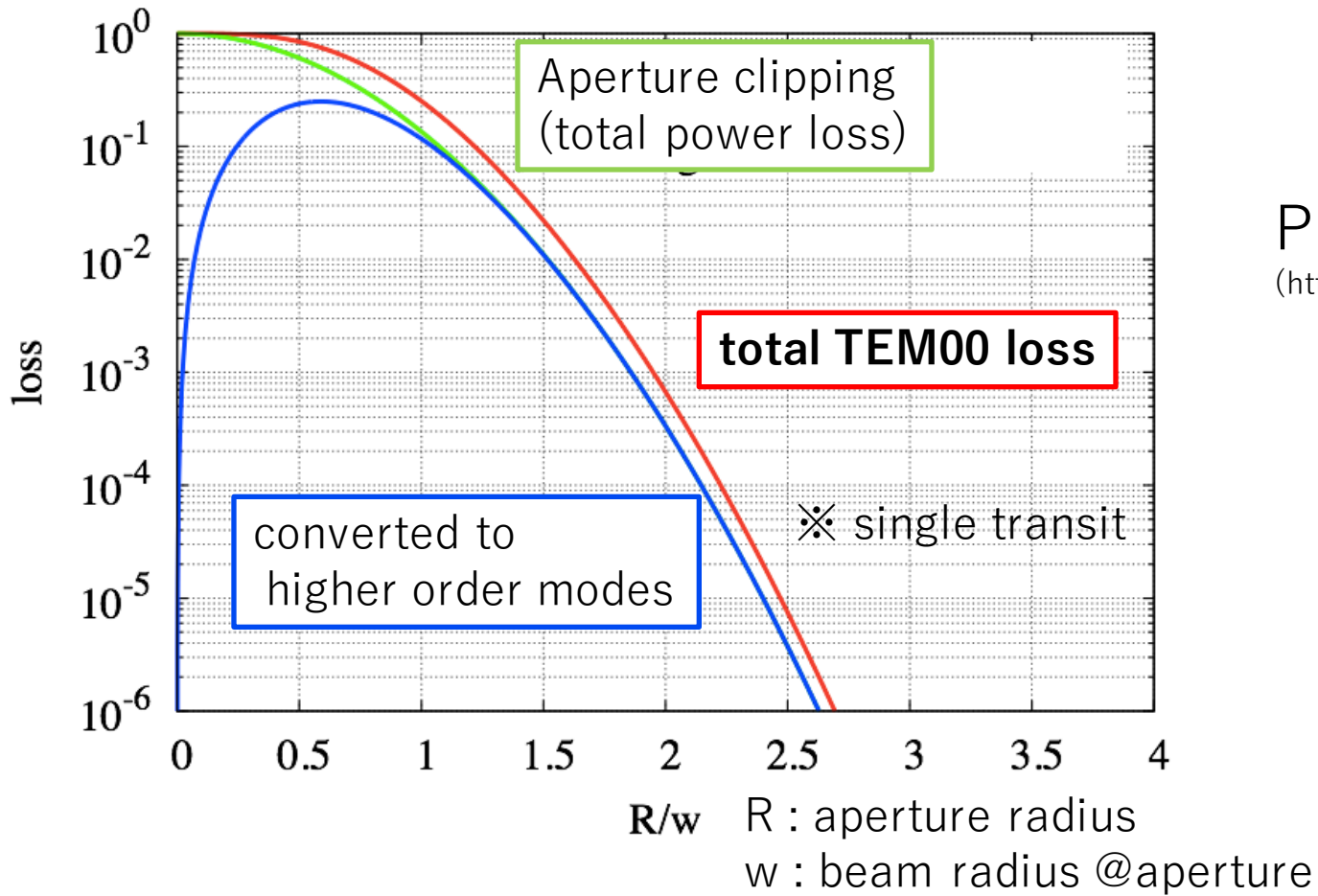
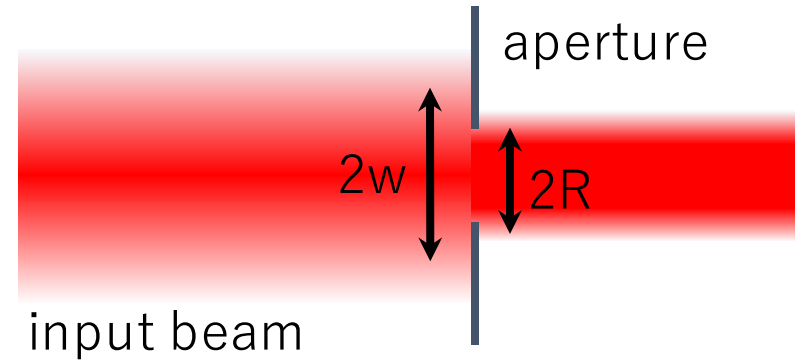


Clipped beam



PRC mirror loss : <100ppm

(<https://gwdoc.icrr.u-tokyo.ac.jp/DocDB/0010/T1201082/001/param.pdf>)

TEM00 loss < 100ppm

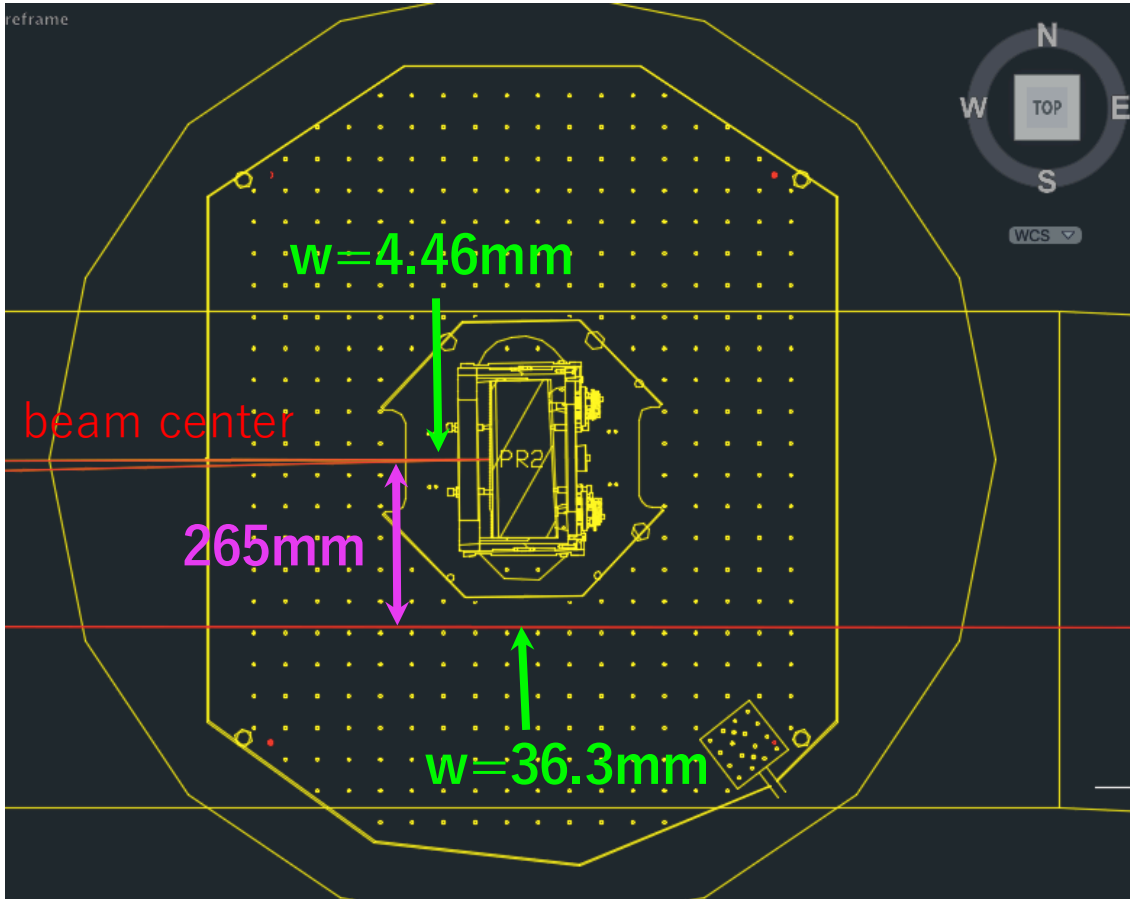
$$\Leftrightarrow \underline{R/w > 2.23}$$

requirement

(loss < 10ppm

$$\Leftrightarrow \underline{R/w > 2.48})$$

PR2



Baffle inner radius :

TEM00 loss $< 100\text{ppm}$

$$\Leftrightarrow \underline{R > 81\text{mm}}$$

($< 10\text{ppm} \Leftrightarrow R > 90\text{mm}$)

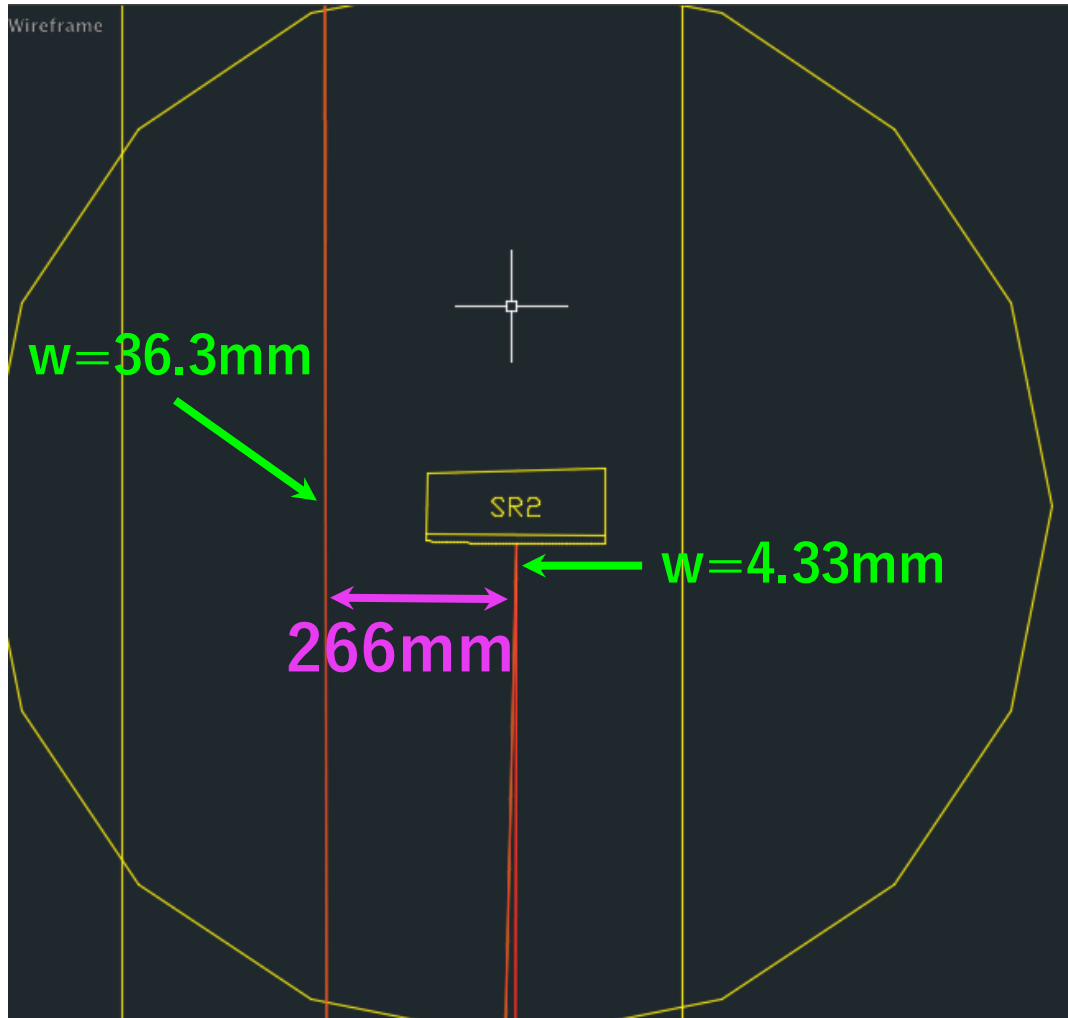
outer radius :

30mm apart from main beam

($w = 4.46\text{mm}$)

$$\Leftrightarrow R_{\text{out}} \leq \underline{235\text{mm}}$$

SR2 (almost same as PR2)



Baffle inner radius :

TEM00 loss < 100ppm

$$\Leftrightarrow \underline{R > 81\text{mm}}$$

(< 10ppm \Leftrightarrow $R > 90\text{mm}$)

outer radius :

30mm apart from main beam

($w=4.33\text{mm}$)

$$\Leftrightarrow R_{\text{out}} \leq \underline{236\text{mm}}$$