



- Radius of Beampipe vacuum
 - $r = Z \cdot \tan(10\text{mrad})$
- Total radius incl. pipeshell and clearance
 - $R = r + D + 7\text{ mm}$
 - $D = (1.6, 1.7, 1.9)\text{ mm} = f(Z)$
- $Y1 = 2 \cdot R$
- $Y2 = 2 \cdot \sqrt{[R^2 - (X1/2)^2]}$
- $Y3 = 2 \cdot \sqrt{[R^2 - (X2/2)^2]}$

