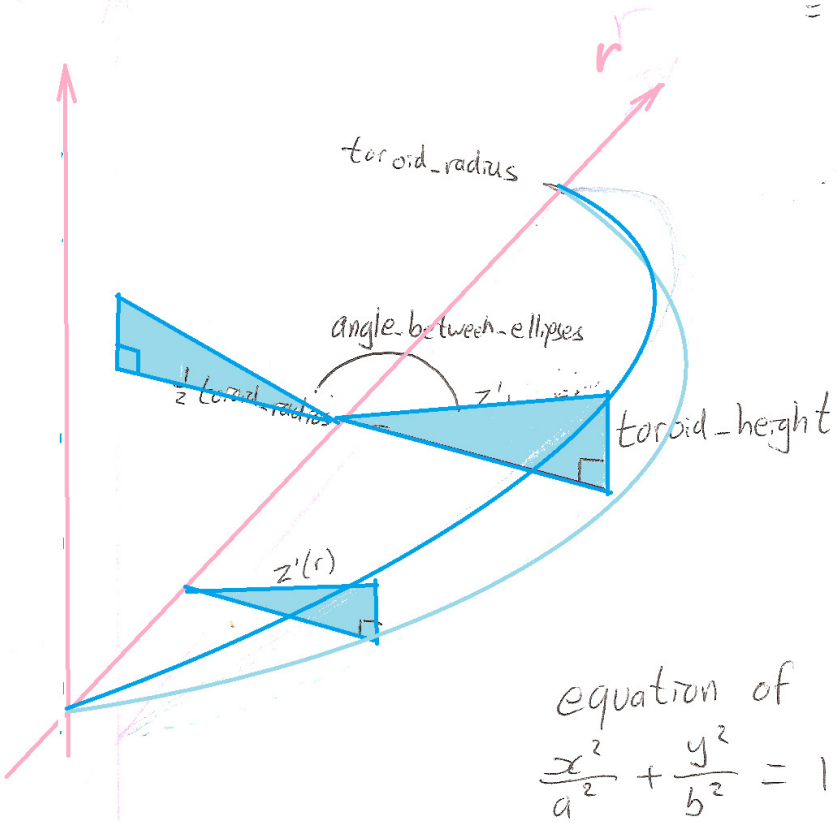
One ellipse of Pim Conradi's toroidal structure.

$$\cos\left(\frac{\text{angle\_between\_ellips}}{2}\right) = \frac{\text{toroid\_height}}{z'(r = \frac{1}{2}\text{toroid\_radius})}$$



equation of ellipse

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$

of tilted ellipse

$$\frac{r^2}{\left(\frac{1}{2}\text{toroid\_radius}\right)^2} + \frac{z'(r)}{z'(r = \frac{1}{2}\text{toroid\_radius})}$$

$$\frac{[z'(r)]^2}{\left[\frac{\text{toroid\_height}}{\cos(\frac{1}{2}\text{ellipses\_angle})}\right]^2} = 1 - \frac{r^2}{\left(\frac{1}{2}\text{toroid\_radius}\right)^2}$$

$$z'(r) = \sqrt{\left[1 - \frac{r^2}{\left(\frac{1}{2}\text{toroid\_radius}\right)^2}\right]\left[\frac{\text{toroid\_height}}{\cos\left(\frac{1}{2}\text{ellipses\_angle}\right)}\right]^2}$$