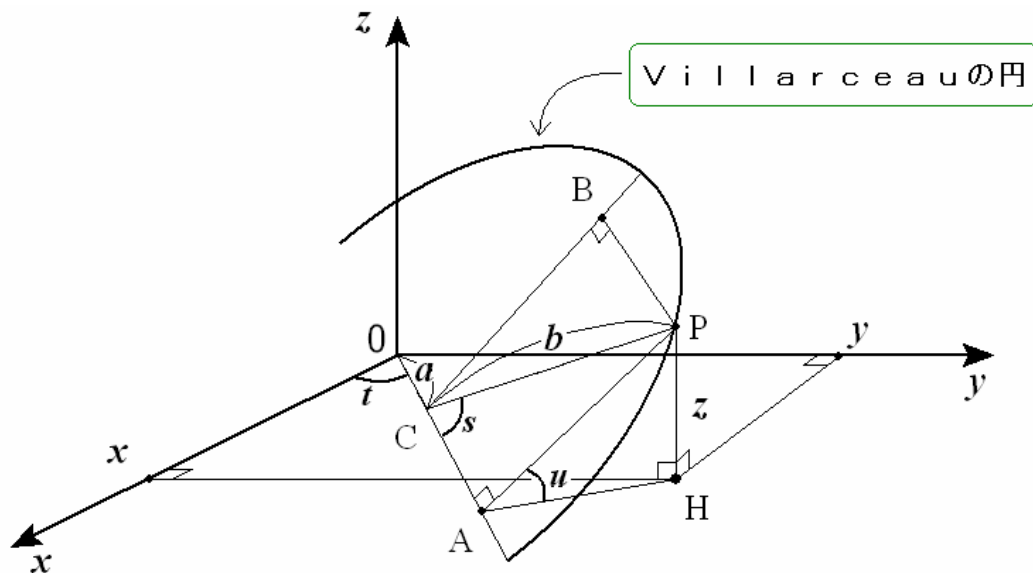


ヴィラソーの円を回転しトーラスを作る



但し、 $\sin u = \frac{a}{b}, \cos u = \frac{c}{b}, c = \sqrt{b^2 - a^2}$

$$x = AO \cos t + HA \cos \left(t + \frac{\pi}{2} \right)$$

$$= (a + b \cos s) \cos t + b \sin s \cos u \cos \left(t + \frac{\pi}{2} \right)$$

$$= (a + b \cos s) \cos t - c \sin s \sin t$$

$$y = A\sin t + H\sin\left(t + \frac{\pi}{2}\right)$$

$$= (a + b \cos s) \sin t + b \sin s \cos u \sin \left(t + \frac{\pi}{2} \right)$$

$$= (a + b \cos s) \sin t + c \sin s \cos t$$

$$z = PA \sin u = b \sin s \sin u = a \sin s$$