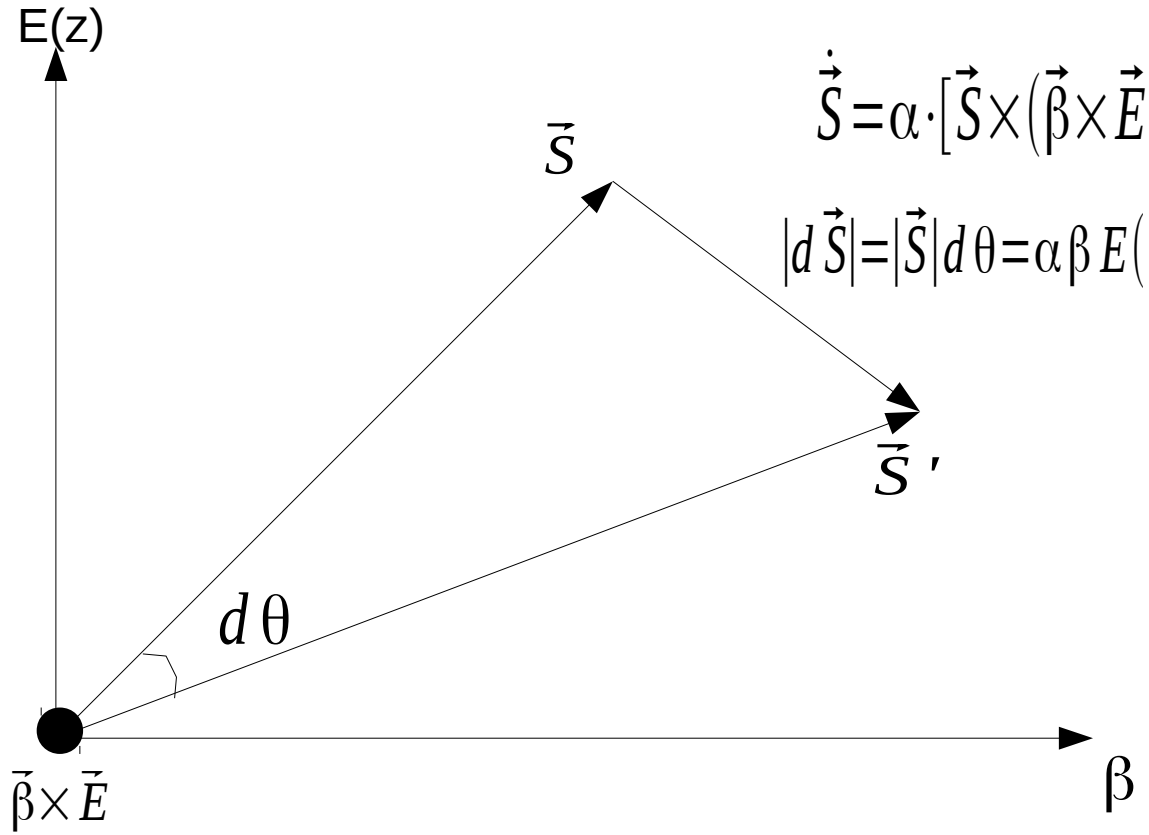
TBMT



$$\dot{\vec{S}}=\alpha\cdot\left[\vec{S}\times\left(\vec{\beta}\times\vec{E}\right)\right] \qquad \vec{\Omega}=\alpha\cdot\left(\vec{\beta}\times\vec{E}\right)$$

$$\left|d\vec{S}\right|=\left|\vec{S}\right|d\theta=\alpha\beta E(z)dt \qquad \left|\vec{\Omega}\right|=\alpha\beta E$$

$$\frac{\alpha\beta}{L}\int_L E(z)dz\equiv\alpha\beta\cdot\underbrace{\langle E(z)\rangle_L}_{=0}=\frac{c\beta S}{L}\int_{\Delta\theta}d\theta\equiv c\beta S\cdot\underbrace{\langle\theta(z)\rangle_L}_{=0}$$