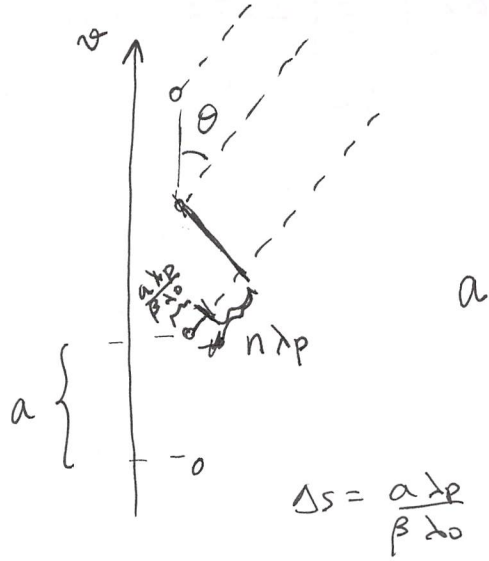
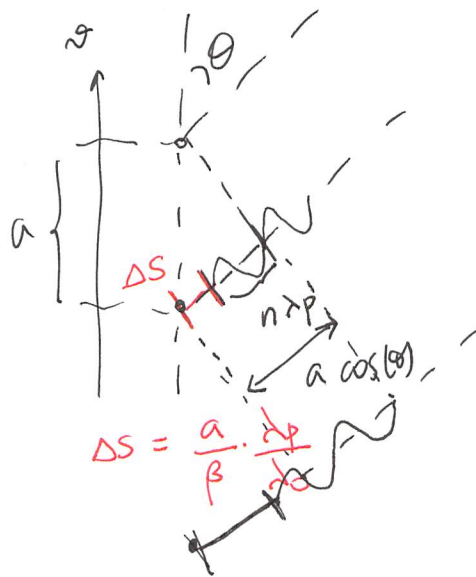


06/03/2023



$$\Delta S = \frac{a \lambda_p}{\beta \lambda_0}$$



$$\Delta S = \frac{a}{\beta} \cdot \frac{\lambda_p}{\lambda_0}$$

$$a \cos(\theta) = n \lambda_p + \Delta S \quad \Rightarrow \quad n \lambda_p = a \cos(\theta) - \Delta S$$

$$\begin{aligned} \theta &= \arccos\left(\frac{n \lambda_p}{a} + \frac{\Delta S}{a}\right) = \arccos\left(\frac{n \lambda_p}{a} + \frac{1}{\beta} \cdot \frac{\lambda_p}{\lambda_0}\right) \\ &= \arccos\left[\lambda_p \left(\frac{n}{a} + \frac{1}{\beta \lambda_0}\right)\right] \end{aligned}$$

Light: $n \lambda = \frac{a}{\beta} - a \cos(\theta)$