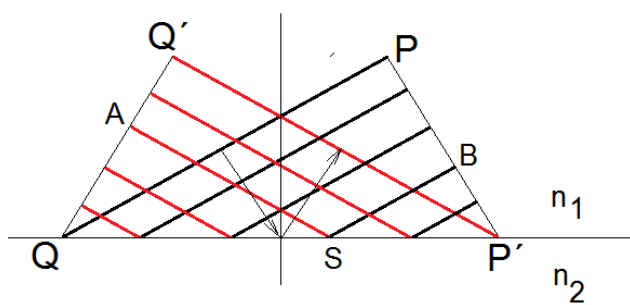


## Reflexão

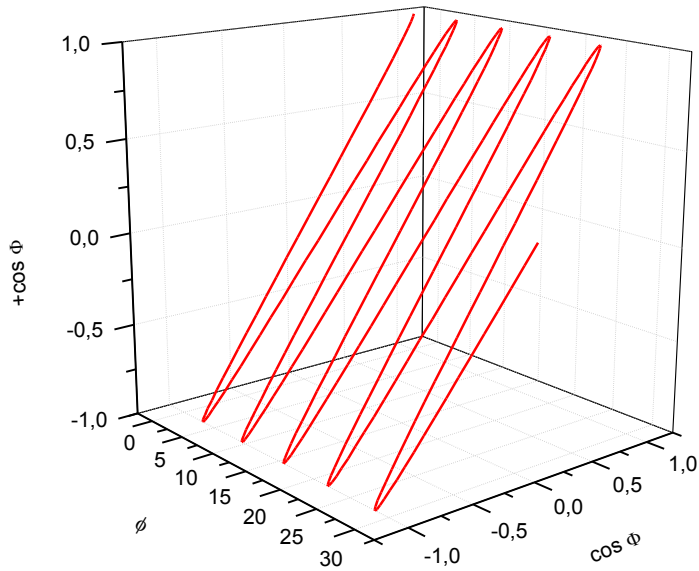


triângulo  $QQ'P' \cong PP'Q$   
 (ambos apresentam mesma  
 hipotenusa e um dos lados iguais)

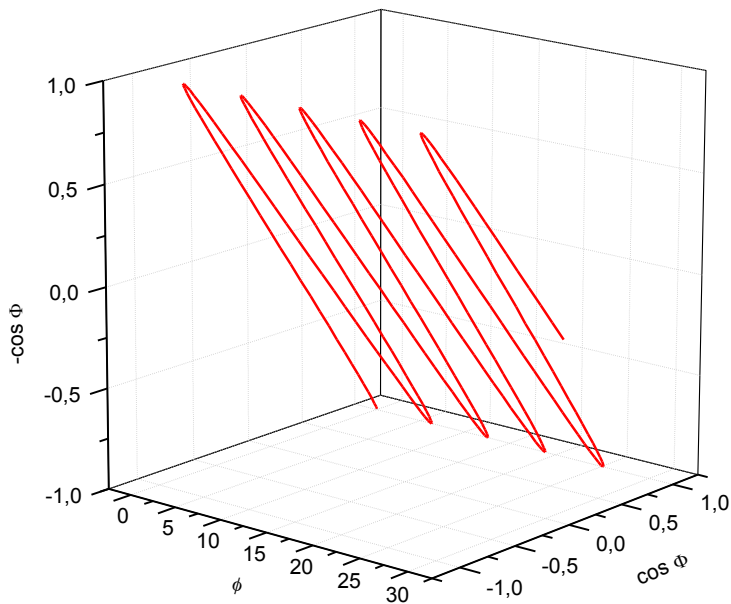
$$\begin{aligned} \overline{PQ} &= \overline{BS} + \overline{SA} \\ \overline{PP'} &= v_1 \Delta t \\ \overline{QQ'} &= v_1 \Delta t \end{aligned} \quad \text{logo, } \overline{QQ'} = \overline{PP'}$$

## Polarização Linear

$$E_x = a \cos \varphi, E_y = (-1)^n a \cos \varphi$$



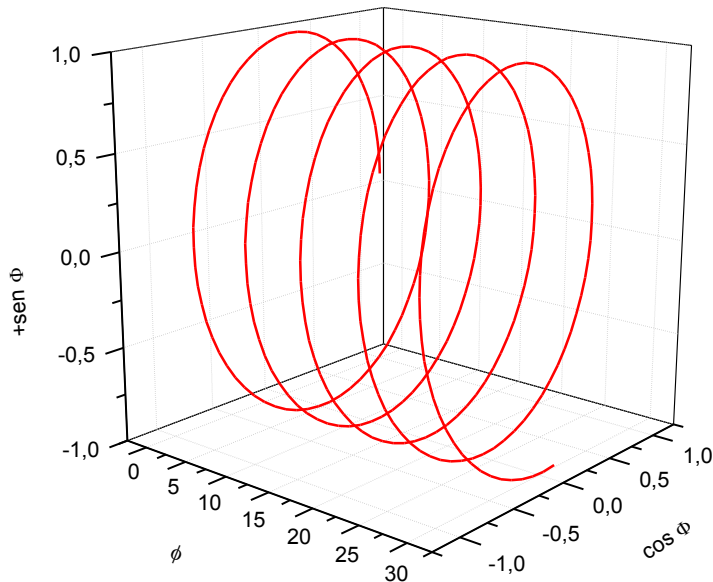
$$\delta = 2n\pi$$



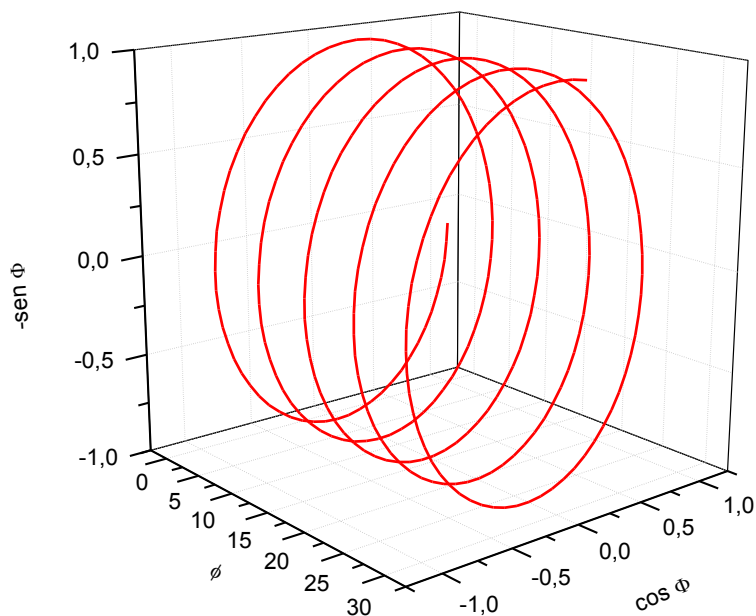
$$\delta = (2n+1)\pi$$

## Polarização circular

$$E_x = a \cos \varphi, E_y = (-1)^n a \sin \varphi$$



$n$  par anti-horário



$n$  impar horário

## Polarização elíptica

$$E_x = a \cos \varphi, E_y = (-1)^n b \sin \varphi$$

