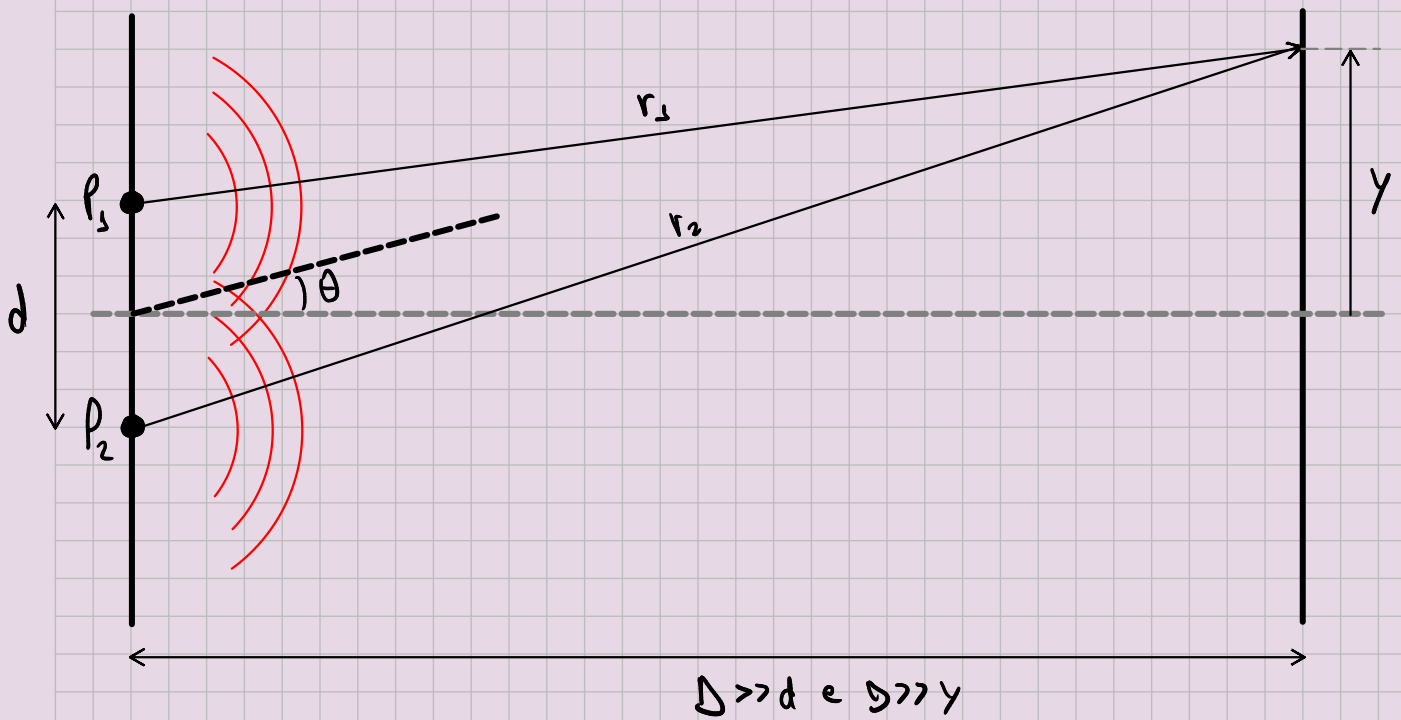


Experimento de Young



Interferência construtiva:

$$d \sin \theta = m \lambda \Rightarrow d \tan \theta = m \lambda$$

$$\tan \theta = \frac{y}{D} \Rightarrow \boxed{y = \frac{m \lambda D}{d}}$$

Interferência destrutiva:

$$m \in \mathbb{Z}$$

$$d \sin \theta = (m + \frac{1}{2}) \lambda \Rightarrow d \tan \theta = (m + \frac{1}{2}) \lambda$$

$$\Rightarrow \boxed{y = \frac{(m + \frac{1}{2}) \lambda D}{d}}$$