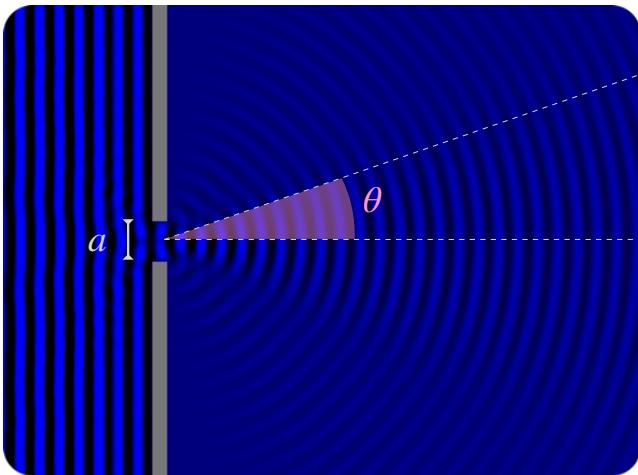
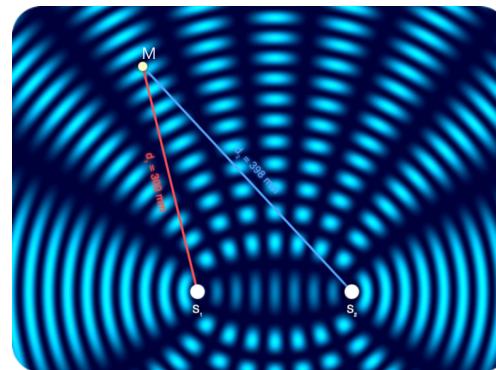


## Diffraction



## Interférences



conditions d'observations :

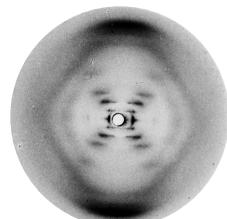
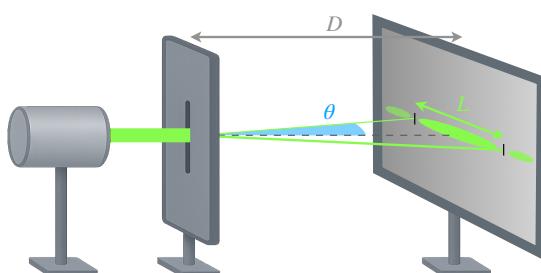
- ondes de même nature
- sources synchrones
- sources cohérentes

$$\delta = [S_2M] - [S_1M] \quad \text{différence de marche ou de chemin optique}$$

conditions d'observations :

- $a \lesssim \lambda$
- pour la lumière  $a \lesssim 100\lambda$

$$\theta = \frac{\lambda}{a}$$

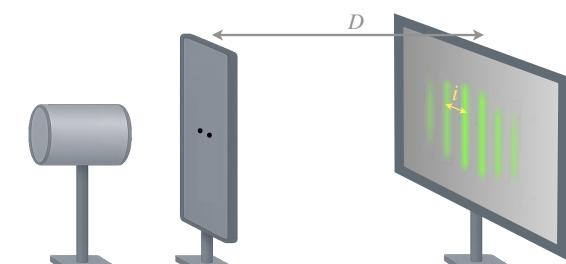


Interférences constructives

$$\frac{\delta}{\lambda} = 2\pi k$$

Interférences destructives

$$\frac{\delta}{\lambda} = 2\pi \left( k + \frac{1}{2} \right)$$



expérience des trous d'Young