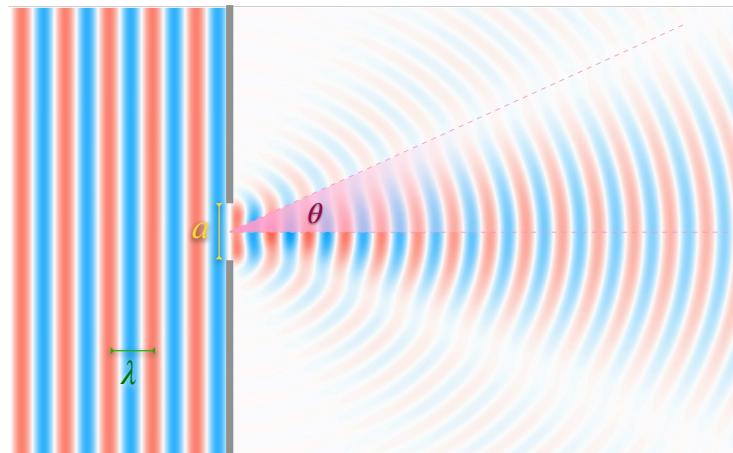
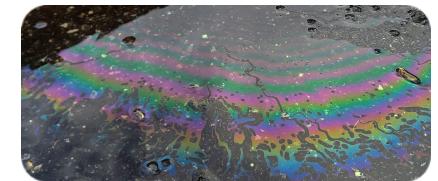
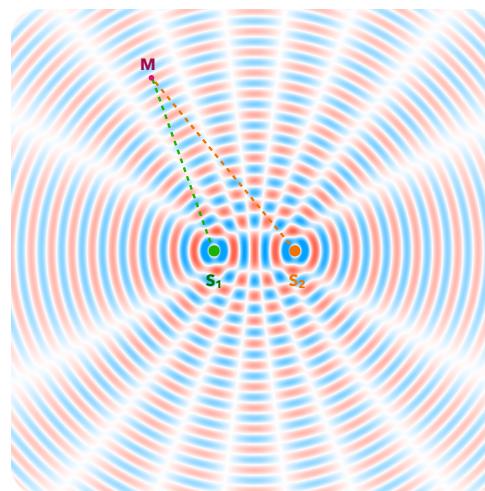


Diffraction



Interférences



conditions d'observations :

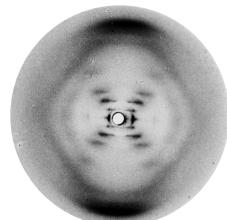
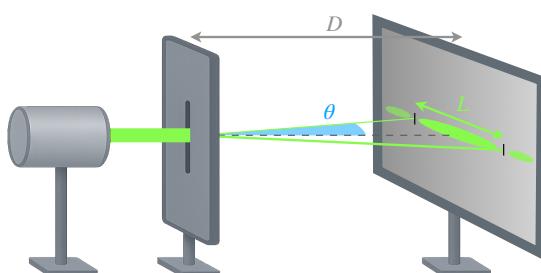
- ondes de **même nature**
- sources **synchrones**
= mêmes fréquences
- sources **cohérentes**
= déphasage constant

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

conditions d'observations :

- a et λ du même ordre de grandeur
- pour la lumière $a \lesssim 100\lambda$

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

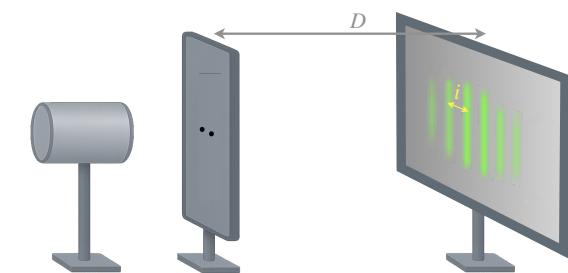


Interférences constructives

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

Interférences destructives

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



expérience des trous d'Young