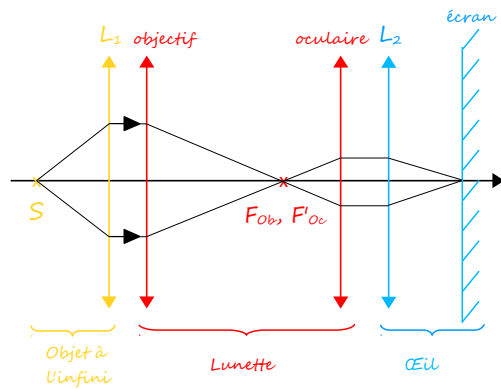
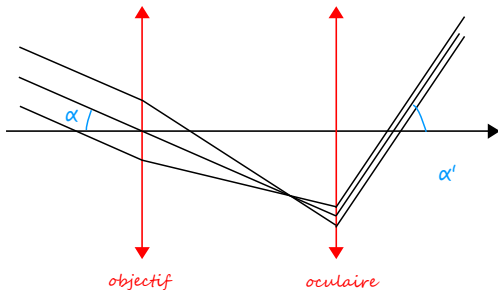


I La lunette astronomique

⌘ Système afocal

II Grossissement

$$G = \frac{\alpha'}{\alpha} = \frac{f'_{ob}}{f'_{oc}}$$

$$\frac{\Delta\left(\frac{\alpha'}{\alpha}\right)}{\left(\frac{\alpha'}{\alpha}\right)} = \sqrt{\left(\frac{\Delta\alpha'}{\alpha'}\right)^2 + \left(\frac{\Delta\alpha}{\alpha}\right)^2}$$

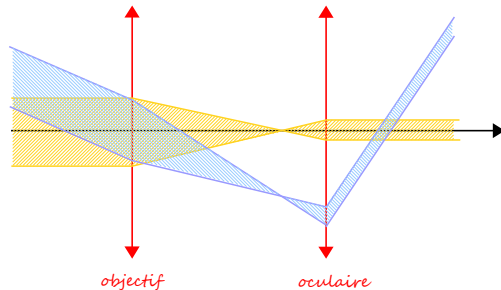
Exp.

$$\begin{cases} f'_{ob} = \\ f'_{oc} = \end{cases}$$

$$\Rightarrow G_{th} =$$

$$\begin{cases} \alpha' = \\ \alpha = \end{cases}$$

$$\Rightarrow G_{exp} =$$

III Diaphragme d'ouverture et de champ

- ⌘ Diaphragme d'ouverture = objectif
- ⌘ Diaphragme de champ = plan focal image de l'objectif

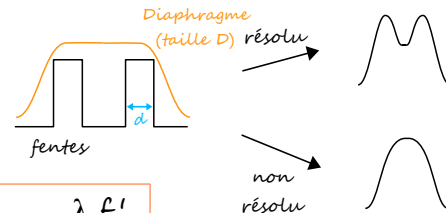
IV Clarté

$$C' = \frac{\phi'}{\phi} = T \left(\frac{D}{d_o G} \right)^2$$

Exp. $\phi =$

$D =$

$\Rightarrow \phi' =$

V Limite de résolution

$$D = \frac{\lambda f'}{Ga}$$