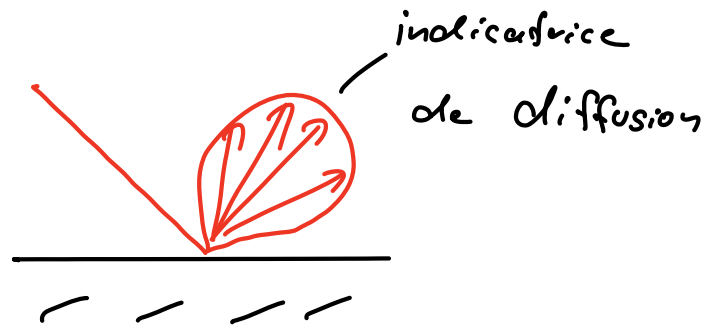
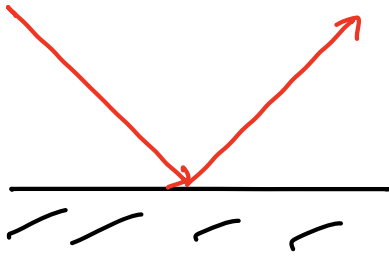


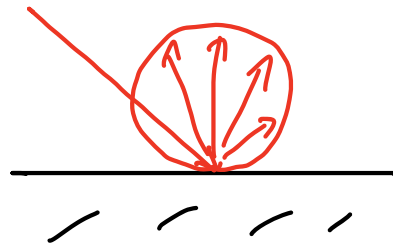
RÉSUMÉ

o Propagation régulière / diffuse



o Surface Lambertienne

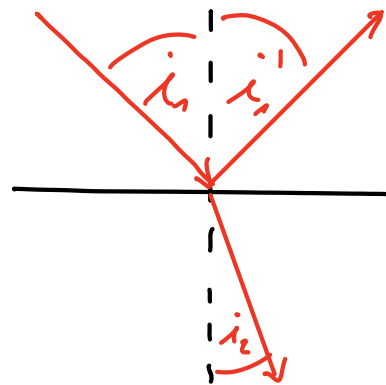
$$I_e(\theta) = I_o \cdot \cos\theta$$



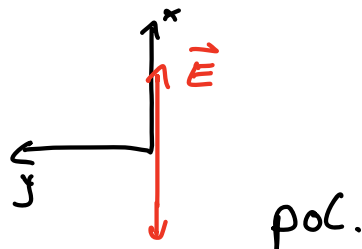
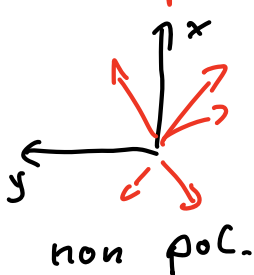
o Réflexion / Réfraction

$$i_1 = i_1'$$

$$n_1 \cdot \sin i_1 = n_2 \cdot \sin i_2$$



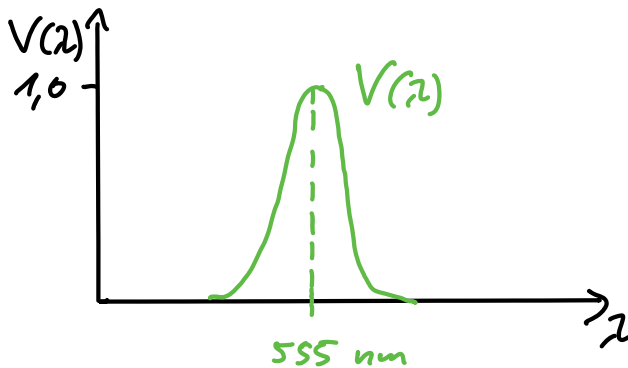
o La polarisation de la lumière



◦ Polarisation par réflexion

angle de Brewster pour le verre : 57°

◦ La courbe de sensibilité spectrale $V(\lambda)$



◦ Le flux lumineux ϕ

$$\phi = K_m \cdot \sum_{380 \text{ nm}}^{780 \text{ nm}} V(\lambda) \phi_e(\lambda)$$

$\nearrow$
 $683 \frac{\text{lm}}{\text{W}}$

◦ 4 grandeurs photométriques

ϕ [lm]

E [lx] = $\left[\frac{\text{lm}}{\text{m}^2} \right]$

I [cd] = $\left[\frac{\text{lm}}{\text{sr}} \right]$

L $\left[\frac{\text{cd}}{\text{m}^2} \right] = \left[\frac{\text{lm}}{\text{sr} \cdot \text{m}^2} \right]$