RIFRAZIONE E RIFLESSIONE ARIA A CQUA J. 8.10 4 ≤ V ≤ 7.9 10 Hz γ LUŒ 0.78.10 × λ> 0.38 .10 m RAGGO Y OICAR

le onde nel vesto honno c

C = M INDICE DI RIFRAZIONE

m > 1

 $M \approx 1$  ARIA 1.33 ACQUA

1.5-2 VETRO

 $y = \frac{w}{y^{\circ}} \stackrel{F>}{>} K = w K^{\circ}$   $2 = \frac{w}{y^{\circ}} \stackrel{F>}{>} K = w K^{\circ}$ 

- pions de incedense:

Il prons formats de Ki e delle normale

- superfice speculare

\$\vec{k}^2, \vec{k}^2 \text{ pecient sul pions d'inademse}

Oi = Or

AD = 
$$\overline{BC}$$

consideration ACD & ABC

- home AC in comune

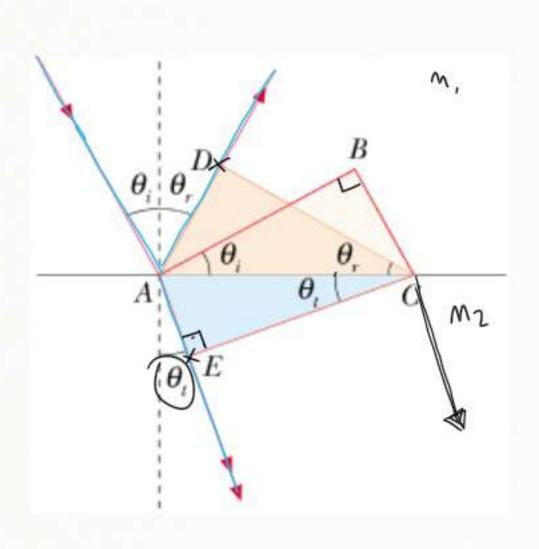
- home un alter lets reguele ( $\overline{AD} = \overline{BC}$ )

- home un angele rettr

i due trangele home tuth a leti e angele

reguele

 $\theta_i + \alpha = \overline{\frac{11}{2}}$ 
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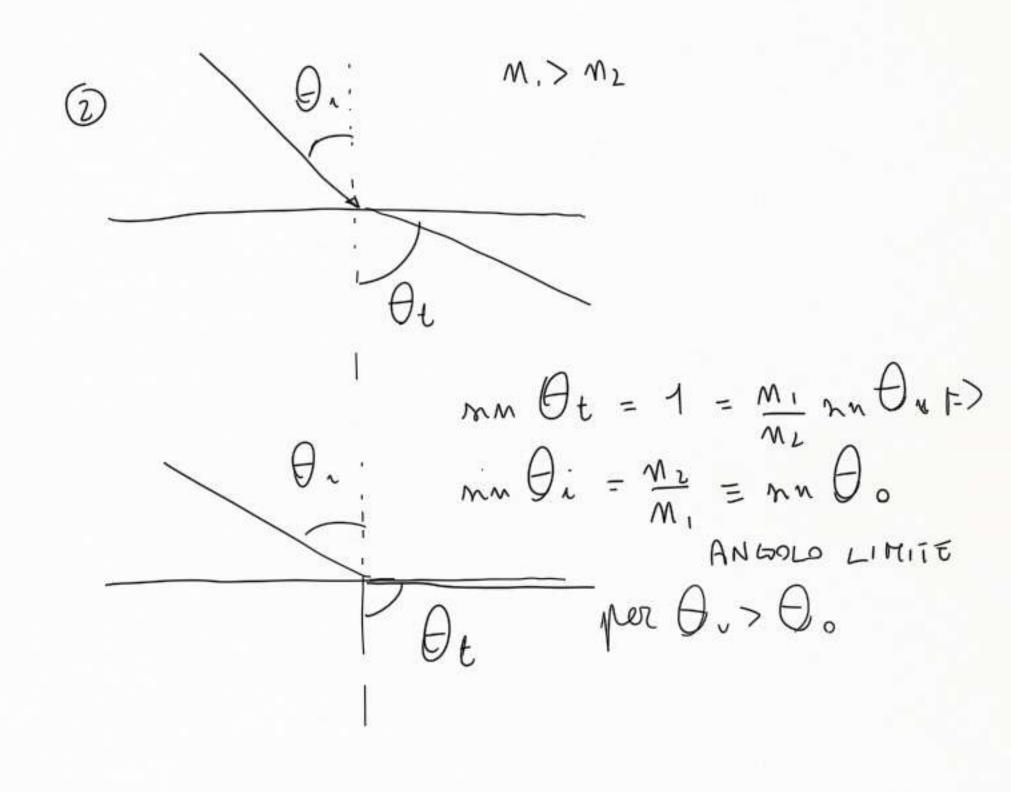
Convidence ABC e ACE

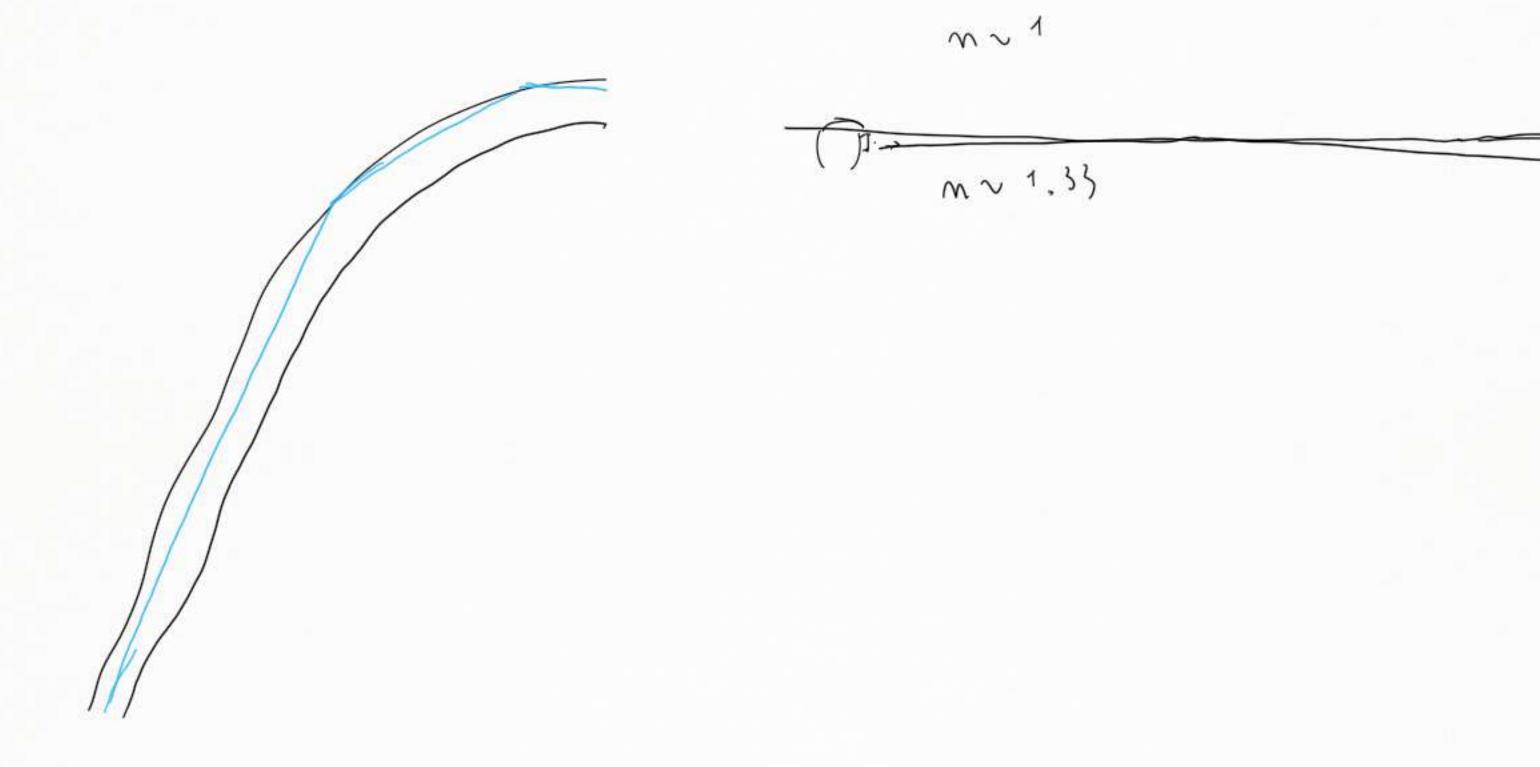
4 hours un lets in comune (AC): l'injutemuse  $\overline{AE} = \nabla_L \Delta t = \frac{C}{M_Z} \Delta t = \overline{AC} \text{ nm} \Theta t \neq 0$   $\overline{AC} = \frac{C \Delta t}{M_Z \text{ nin} \Theta t}$ 

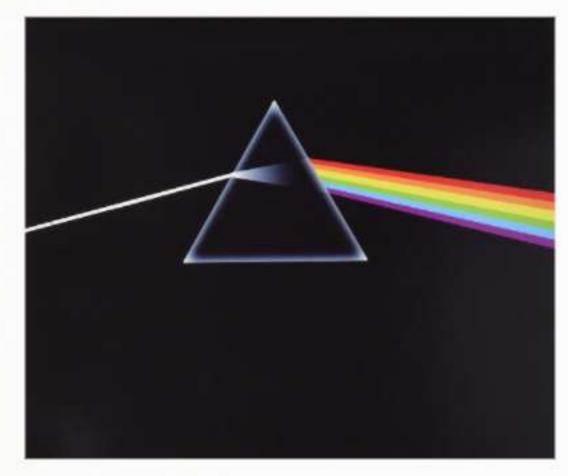
BC =  $\sqrt{\Delta t} = \int_{M_1} \Delta t = AC \text{ min } \theta i F$  $AC = \int_{M_1} \Delta t \int_{M_2} AC \int_{M_2} AC$ 

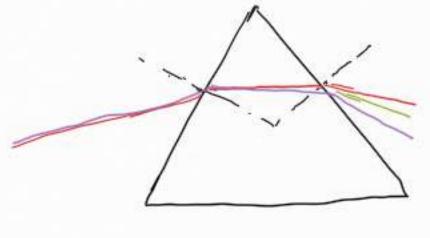
CDt - CDt F> M, nn Di = nz nn Ot Nzmba = M, nn Di LEGGE DI SNELL

 $mn \Theta t = \frac{M_1}{M_2} mn \Theta_1$ (9) se O, =0, Ot =0 D se m,> mz, Ot > Qi 3) re m2>M, O2>Ot M, CM2









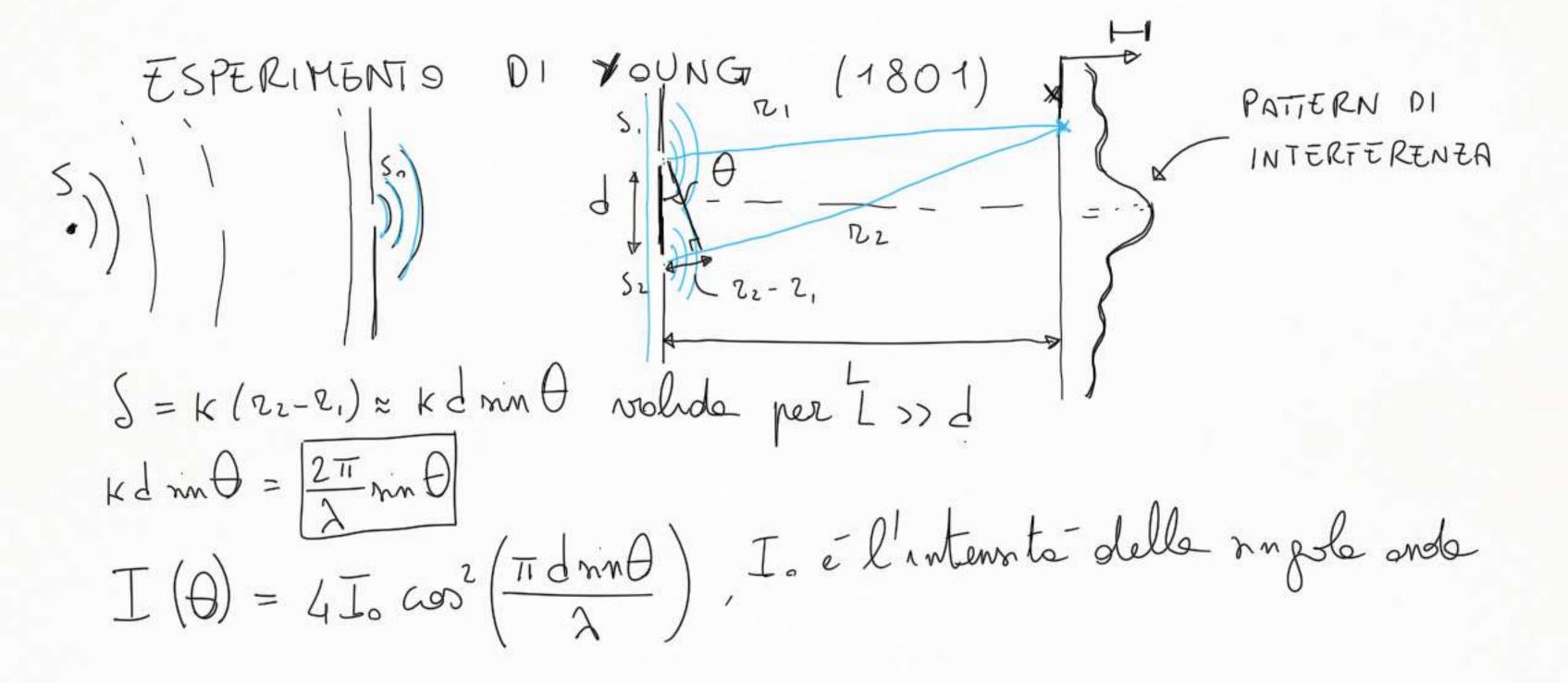
DISPERSIONE DELLA LUCE

$$M = M(\lambda)$$

$$E(z,t) = E_{0}(z) \cos(\kappa z - \omega t)$$

$$G_{m}(z) = I(z) 4\pi z^{2} = \frac{1}{2} c \varepsilon_{0} E_{0}(z) 4\pi z^{2} = \omega x + \sum E_{0}(z) z^{2} = \omega x + \sum E_{0}(z) z^{2} = \omega x + \sum E_{0}(z) z^{2} + \sum E_{0}(z)$$

sterre 2 e w E, = to ws (x2,-wt + \$\phi\_1) Ez = E= cos (KZz-wt+02)  $\Rightarrow (S) = (\kappa z_1 - \omega t + \phi_2) - (\kappa z_1 - \omega t + \phi_2) =$   $= [\kappa (z_1 - z_1)] + \phi_2 - \phi_1 = \kappa (z_1 - z_1) + (\Delta \phi)$ differense di fore differense di fore intrinsèce  $\triangle \phi$  non depende del tempo  $\rightarrow$  le segente sons coerente se  $\triangle \phi = 0$   $\rightarrow$  le segente sons necesare posson dare interferens



$$T(\theta) = 4\overline{1}_0 \cos^2\left(\frac{\pi d \sin \theta}{A}\right)$$
morning re
$$\frac{\pi d \sin \theta}{A} = m\pi + \overline{1} +$$