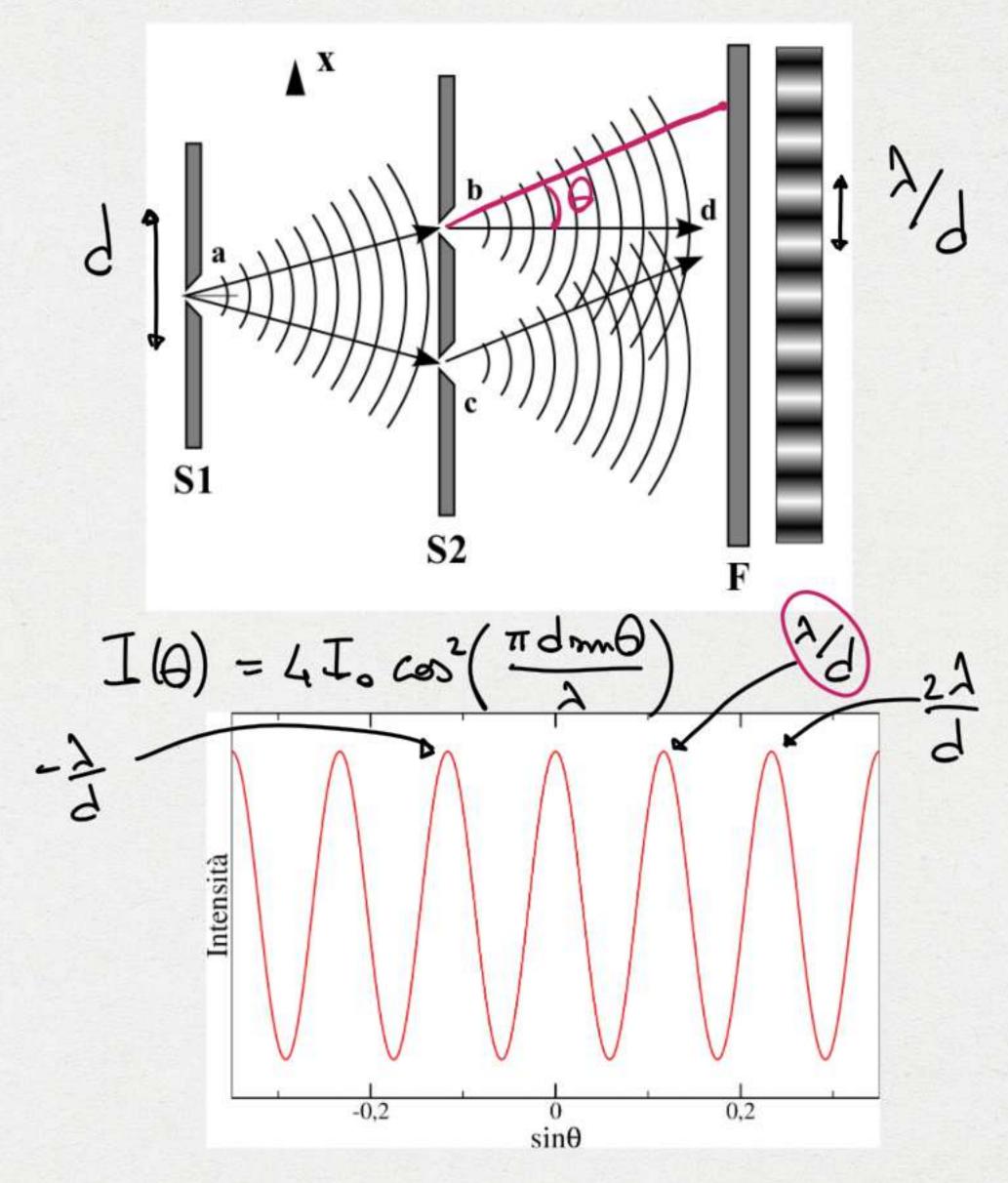
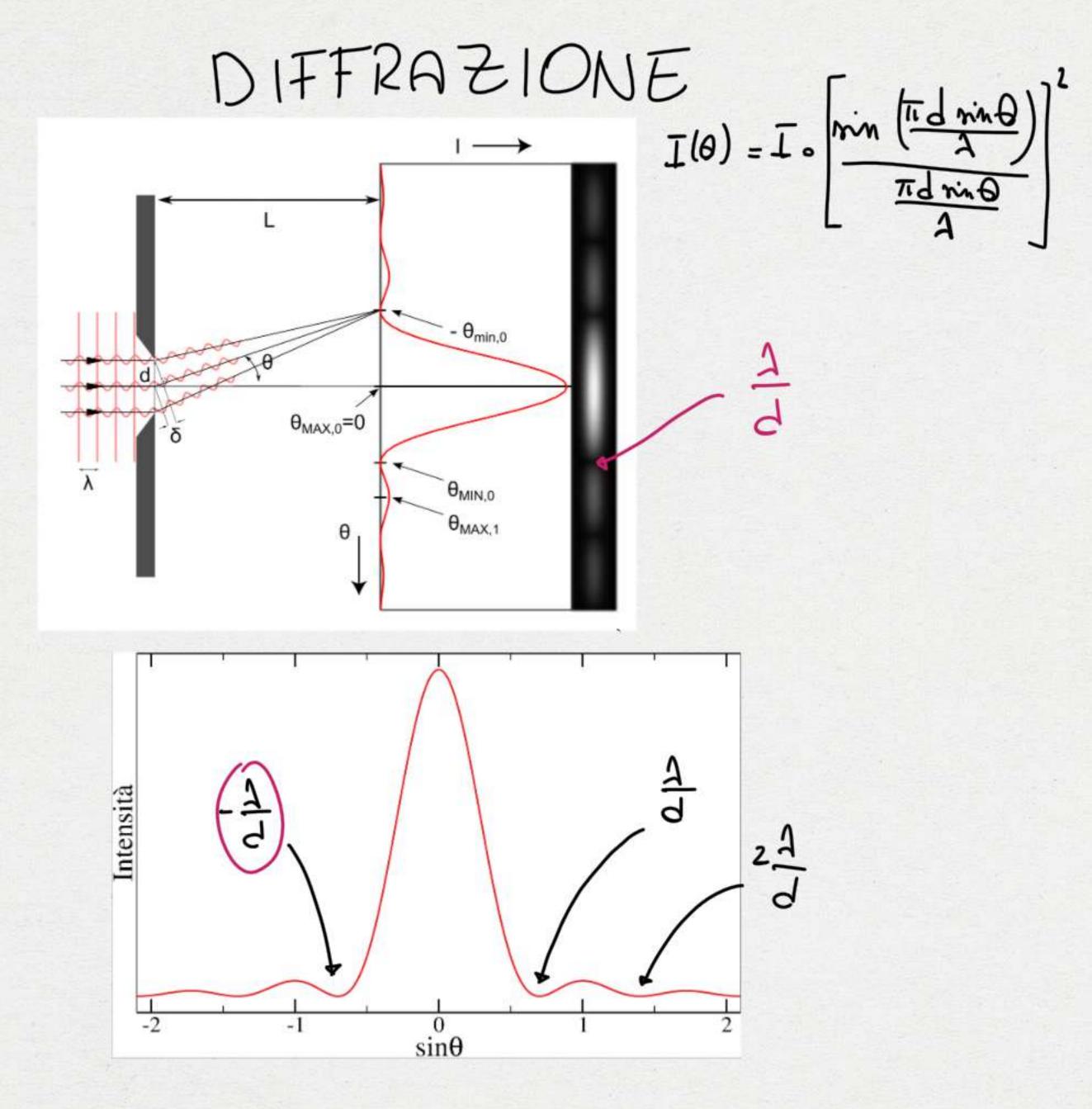
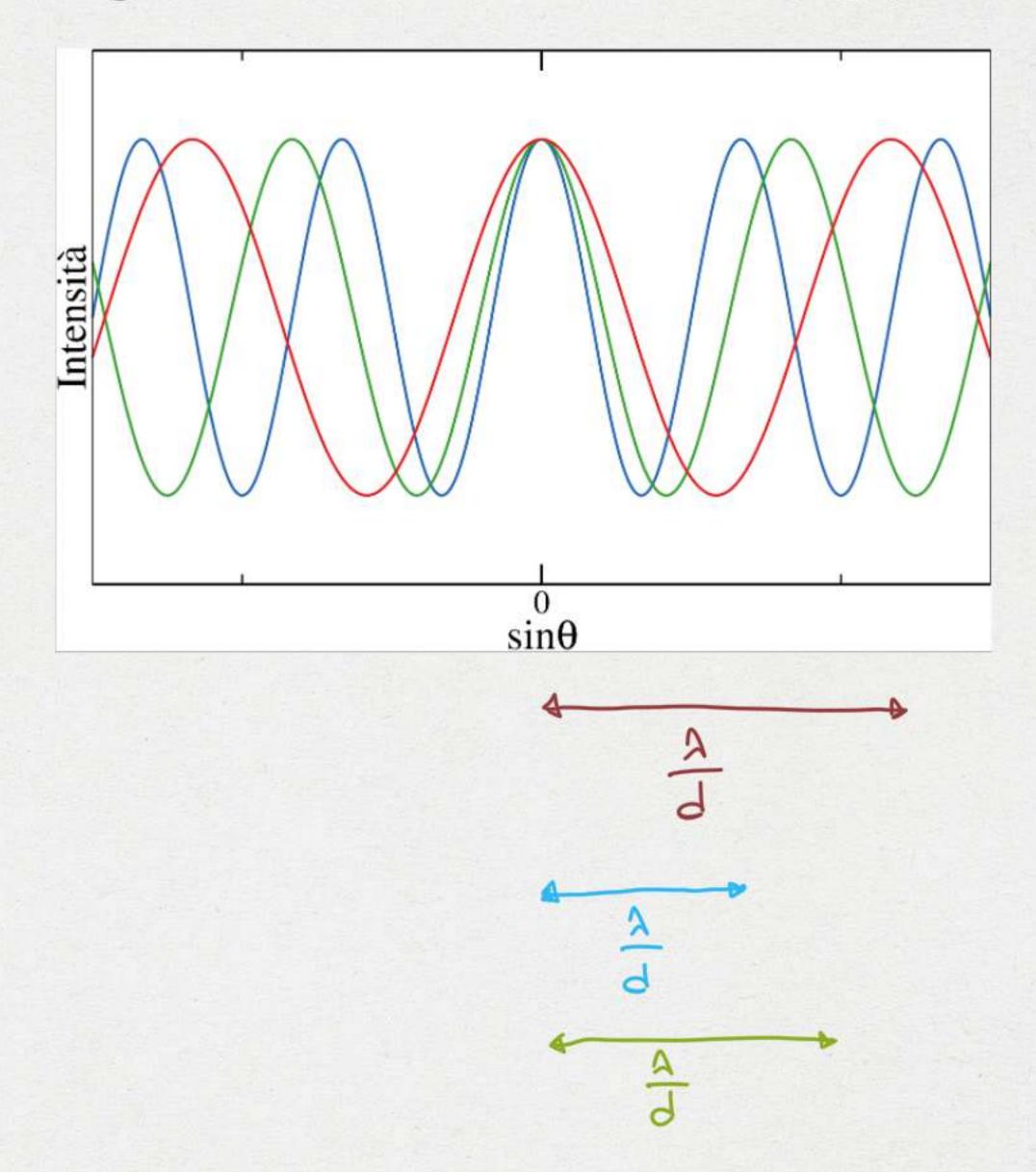
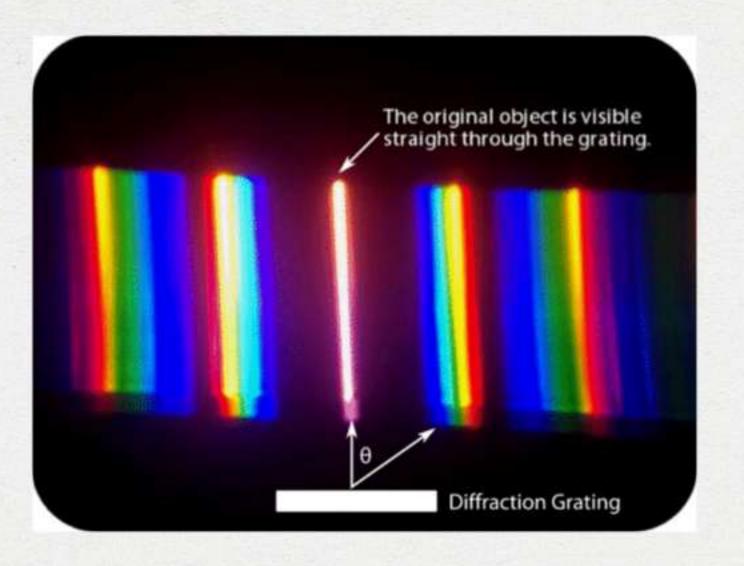
INTERFERENZA

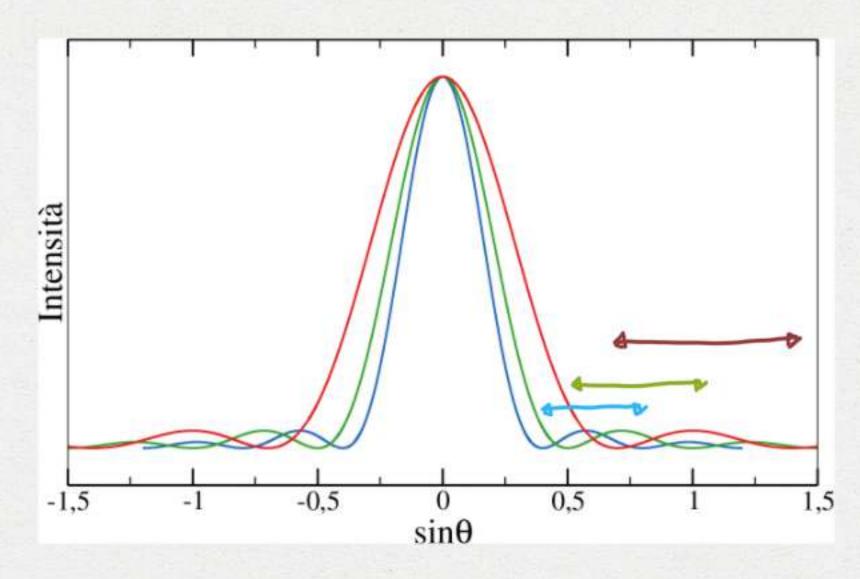




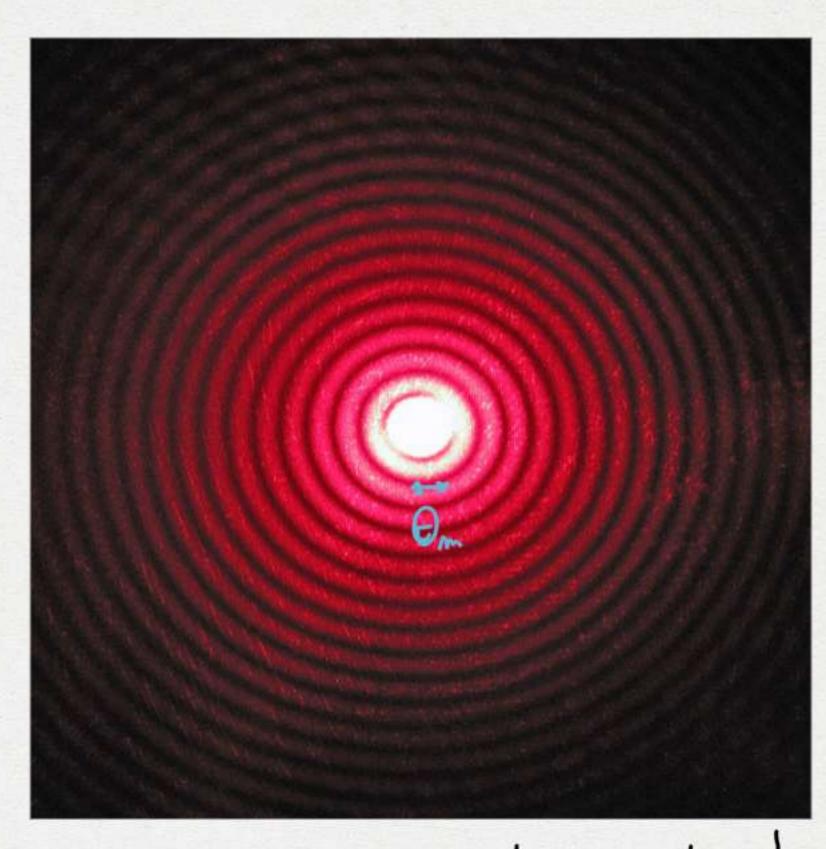
EFFETTI CROMATICI





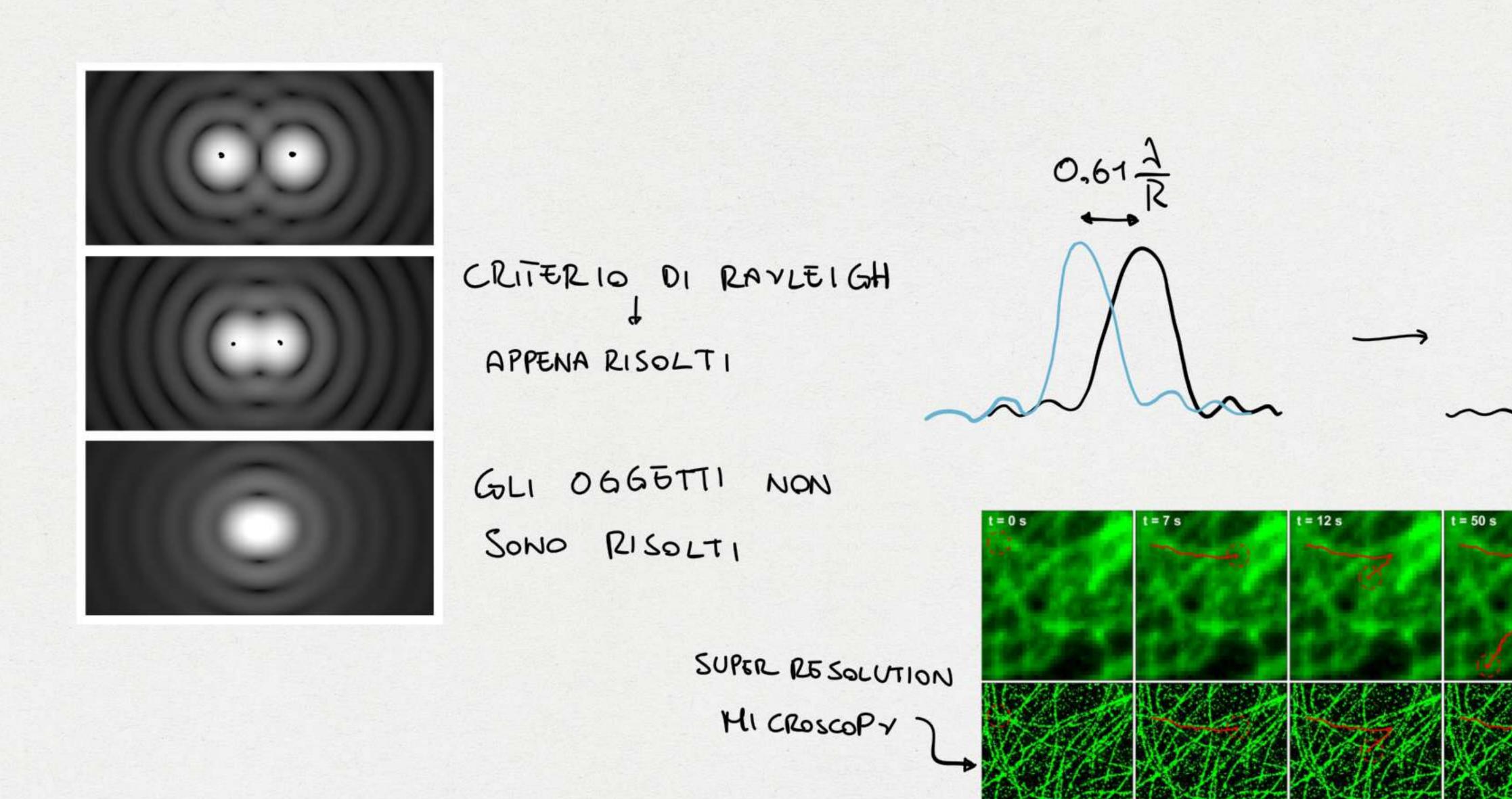


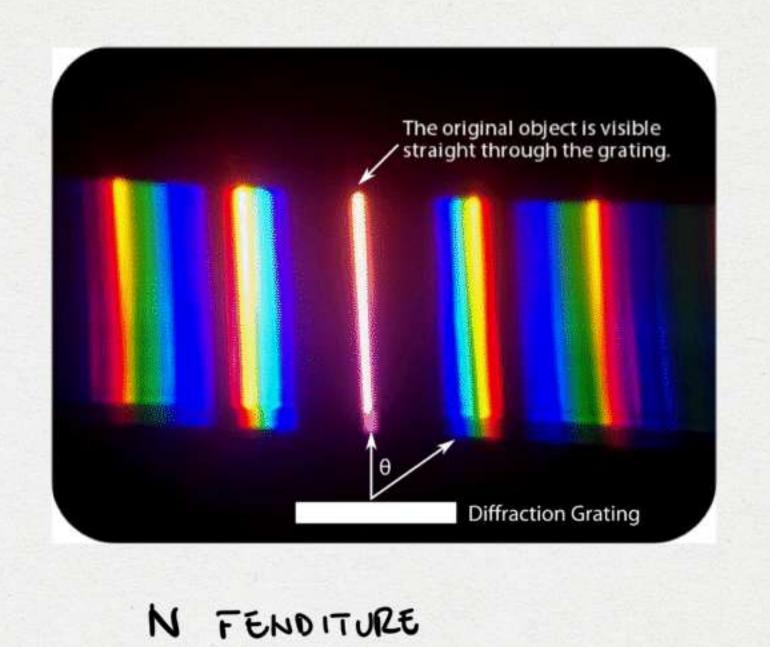
DITTERAZIONE DA APERTURA CIRCOLARE

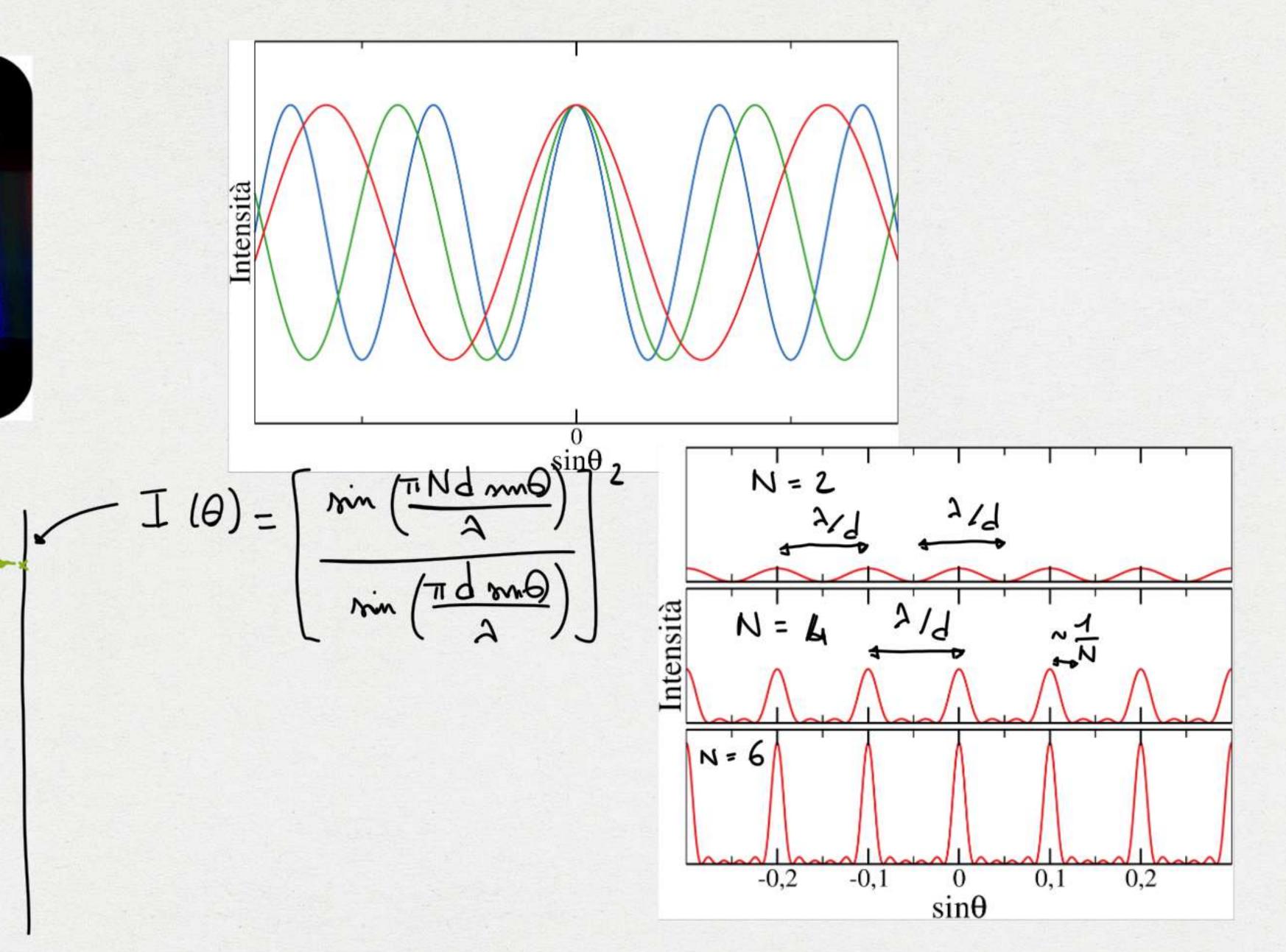


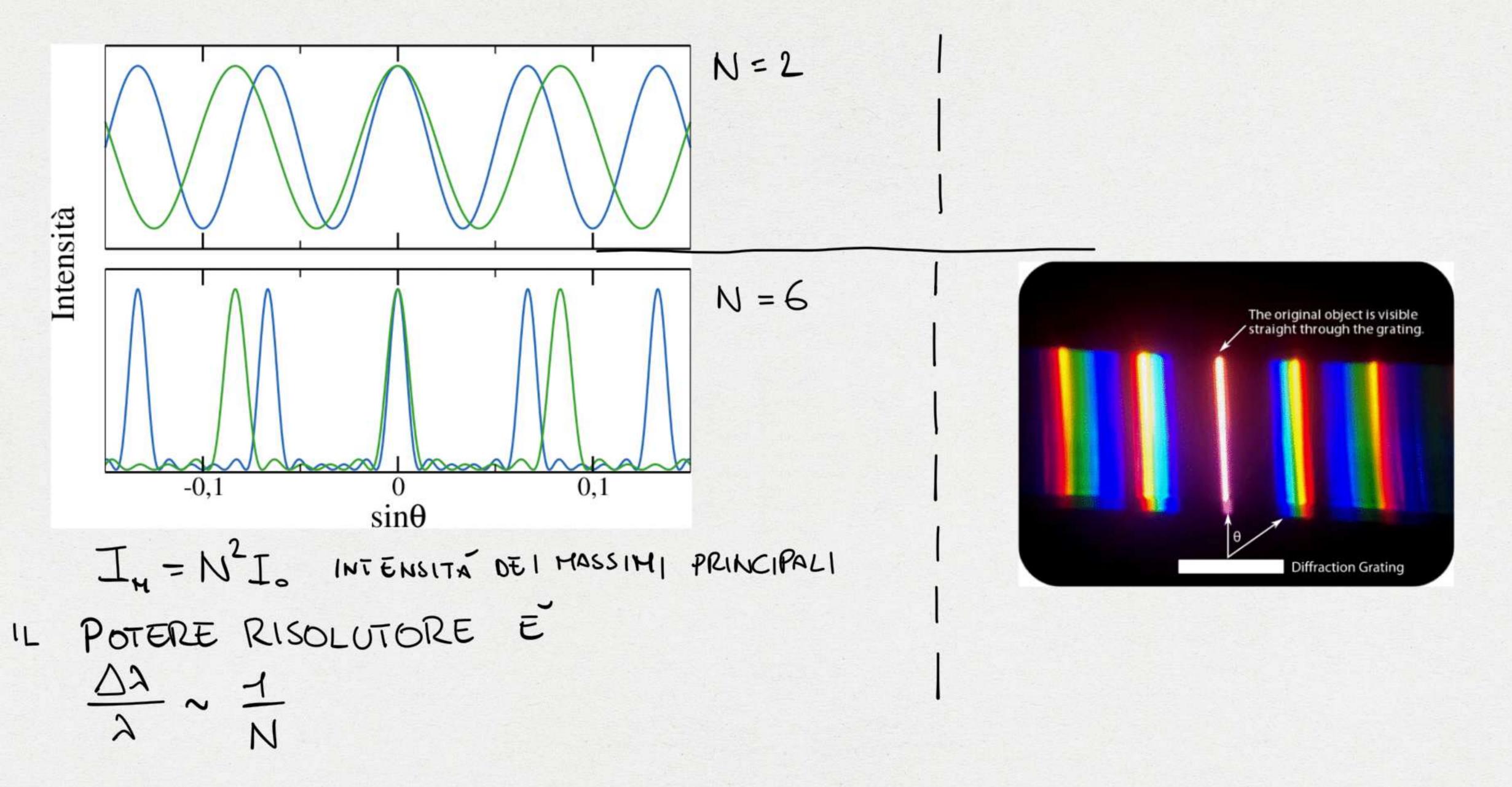
sin $\Theta_m = 0.61 \frac{\lambda}{R}$, R regger dell'apertura $\frac{1}{1000} = 0.61 \frac{\lambda}{R}$ rin $\Theta_m \approx \Theta_m \approx 0.61 \frac{\lambda}{R}$ $\frac{1}{1000} = 0.61 \frac{\lambda}{R}$ Lorgherna engelore del mornino centrale

$$\frac{1}{|\mathcal{S}|} \xrightarrow{\text{LENTE}} \frac{1}{|\mathcal{S}|} \xrightarrow{\text{LENTE}} \frac{1}{|\mathcal{S}|} \times \frac{A}{|\mathcal{R}|}$$
FORD





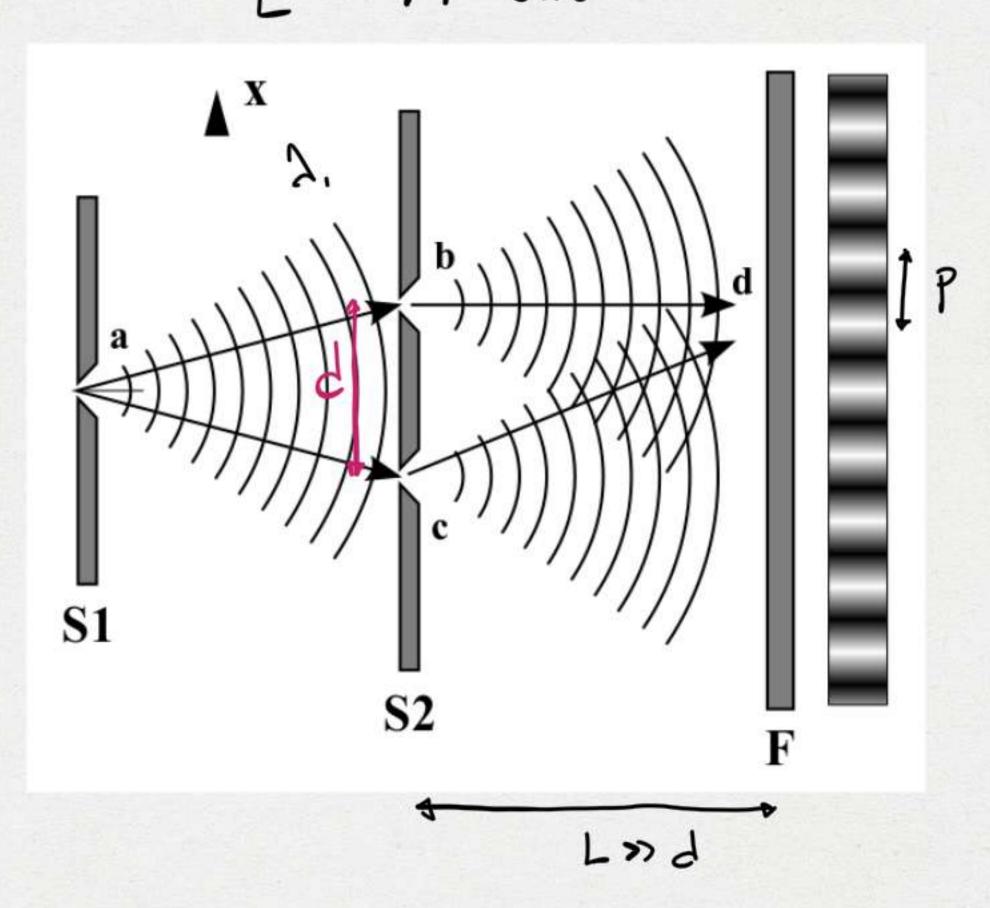




ES. 63
$$\lambda_1 = 610 \text{ nm}$$

$$p = 0.47 \text{ mm distanse tre mornismi adhacentr}$$

$$L = 77 \text{ cm}$$
O colcalere d



- (1) colcobore d
- 2) par quale 22 mba p2=0.91 mm
- 3 determinare pe se ni immerge il dispositivos in acque e si use 2,
- 6) un quest ulterner con qual é la dennitate delle franze?

$$\Delta \theta = \frac{\lambda}{d} \rightarrow \Delta \theta, = \frac{\lambda}{d}$$

$$\times = L t_{\delta}$$

$$P = \Delta x_{m}$$

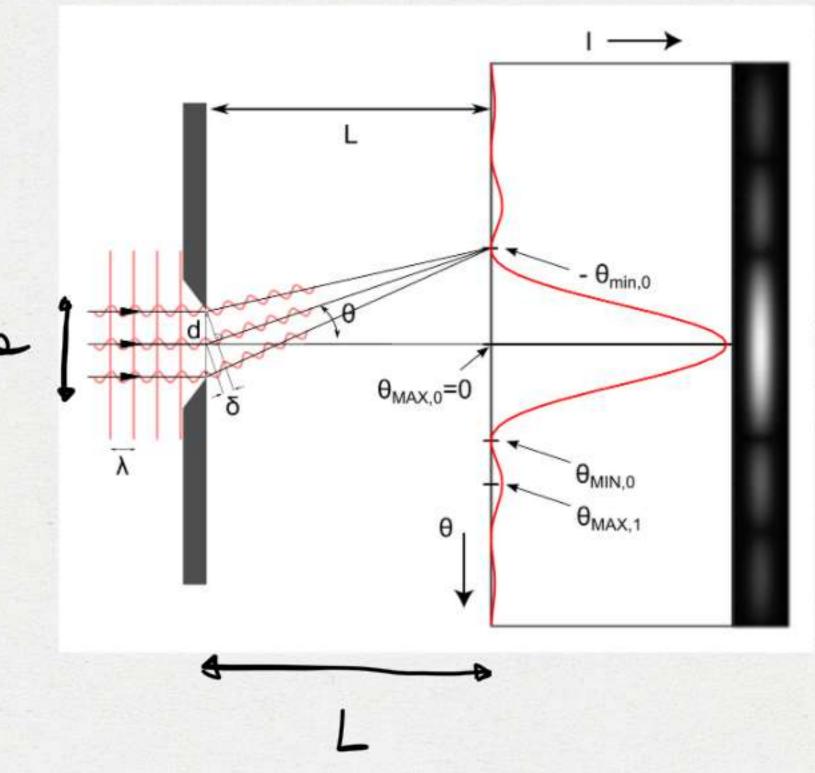
$$d = \frac{L^{2}}{P}$$

②
$$d = \frac{L\lambda}{P}$$
 = $\lambda_2 = \frac{dP_1}{L} = 4.18 \mu m = 1180 nm$

3)
$$M_a = 1.33$$
, $N_a = \frac{C}{M_a}$, $N_b = \lambda D \neq \lambda A_a = \frac{\lambda_1}{M_a} \neq \lambda A_a = \frac{\lambda_1}{M$

(4)
$$D_a = \frac{1}{p_a} = 3.5 \text{ mm}^{-1} = 35 \text{ cm}^{-1}$$

ES. 64 lorghern della



lorgherra della fenditure, $\lambda_1 = 350 \text{ nm}, \lambda_2 = 450 \text{ nm}$

Dx = 6 cm distanse tre i minimi di diffrassione del II ordine delle due componenti

1 determinare a

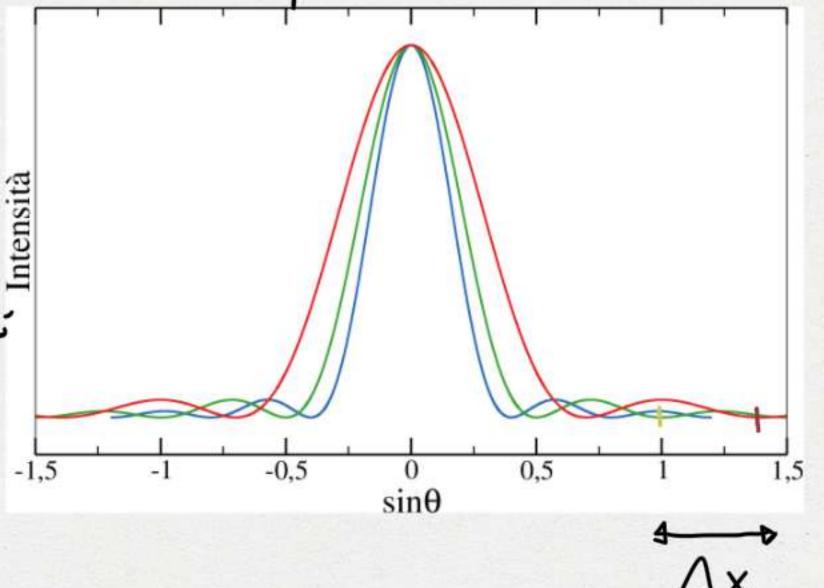
2) colsolore l'internità redatura

delle du componenti per

0 = 0 sapendo che l'internità

Telativa é pari a 0.06

per 0 = = = =



$$\sin \theta_2 - \sin \theta_1 = 2\frac{\lambda_2}{\alpha} - 2\frac{\lambda_1}{\alpha}$$

$$\approx \theta_2 - \theta_1 = \frac{x_2}{L} - \frac{x_1}{L} = \frac{\Delta x}{L} \Rightarrow$$

$$-\lambda_{d}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\lambda_{d}}{2}$$

$$\frac{\Delta x}{L} = \frac{2(\lambda_2 - \lambda_1)}{\Delta x} = \frac{2(\lambda_2 - \lambda_1)L}{\Delta x} = \frac{2o \mu m}{\Delta x}$$

$$\frac{2}{I(\theta)} = I(0) \left[\frac{\min \left(\frac{\pi \alpha \sin \theta}{A} \right)^{2}}{\pi \alpha \sin \theta} \right]$$

$$\frac{1}{\pi \sqrt{\frac{\pi \sqrt{5}}{4}}} = 0.06 = \frac{1/6}{1/6}$$

$$\frac{1/\sqrt{5}}{1/\sqrt{5}} = 0.06 = \frac{1/6}{1/6}$$

$$\frac{\sum_{n=1}^{2} \left(\frac{\pi \alpha \sin \theta}{A_{1}}\right)}{\sum_{n=1}^{2} \left(\frac{\pi \alpha \sin \theta}{A_{2}}\right)} \frac{\Lambda^{2}}{\Lambda^{2}} = 0$$

$$\frac{I_{10}}{I_{20}} = 0.06 \quad \text{m}^{2} \left(\frac{\pi a \sin \theta}{A_{2}} \right) \quad \frac{\lambda_{2}^{2}}{\lambda_{1}^{2}} = 0.071$$

$$\frac{1_{10}}{\sin^{2} \left(\frac{\pi a \sin \theta}{A_{1}} \right)} \quad \frac{\lambda_{2}^{2}}{\lambda_{1}^{2}} = 0.071$$