

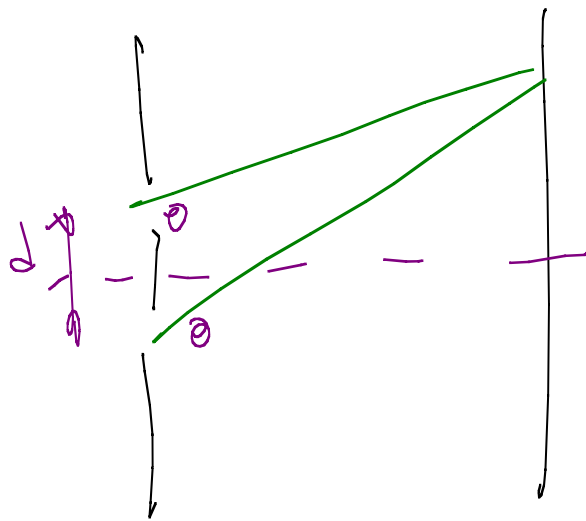
Phys 2120 - 41

11/28/12

Note Title

11/28/2012

Interference - 2 rays (beams)



$$d \sin \theta = m \lambda \quad m = 0, 1, 2, 3 \dots$$

Constructive

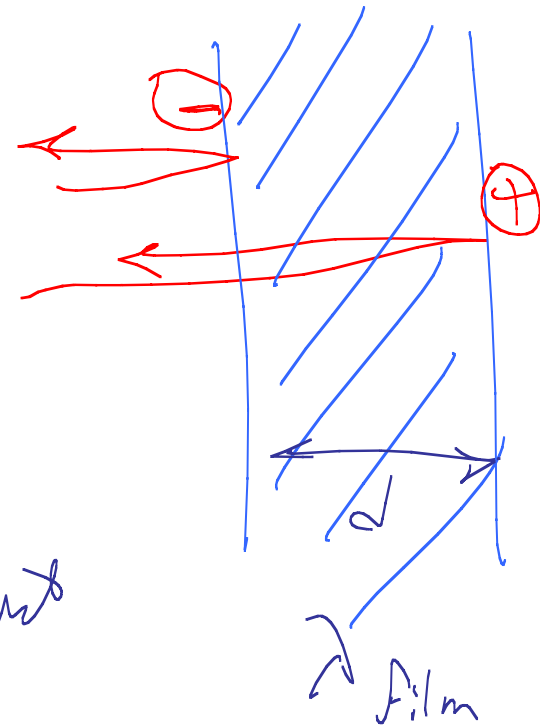
Extra dist $2d$

$$\lambda_{\text{film}} = \frac{\lambda_{\text{air}}}{n}$$

$$2d = \frac{\lambda_{\text{air}}}{n} = \lambda_{\text{fil}}$$

Destr. $2nd = m\lambda = m\lambda_{\text{film}}$ Destruct

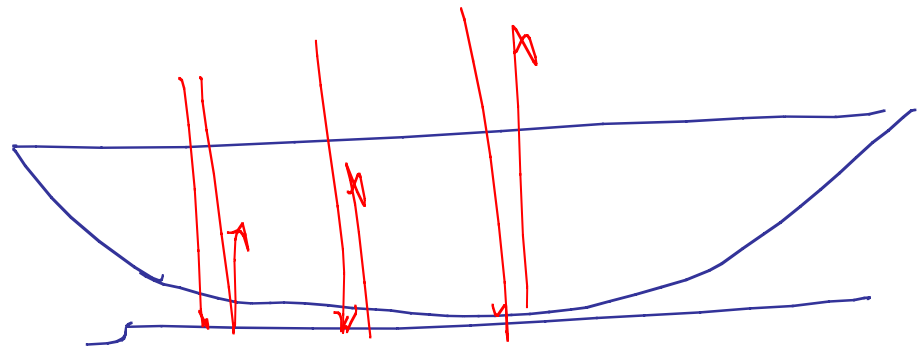
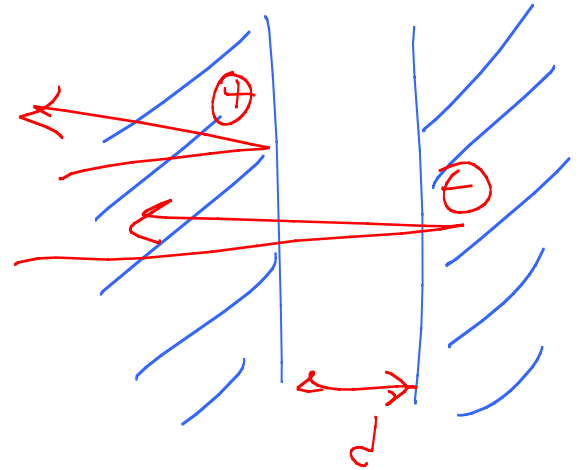
Constr. $2nd = (m + \frac{1}{2})\lambda$ Constr.



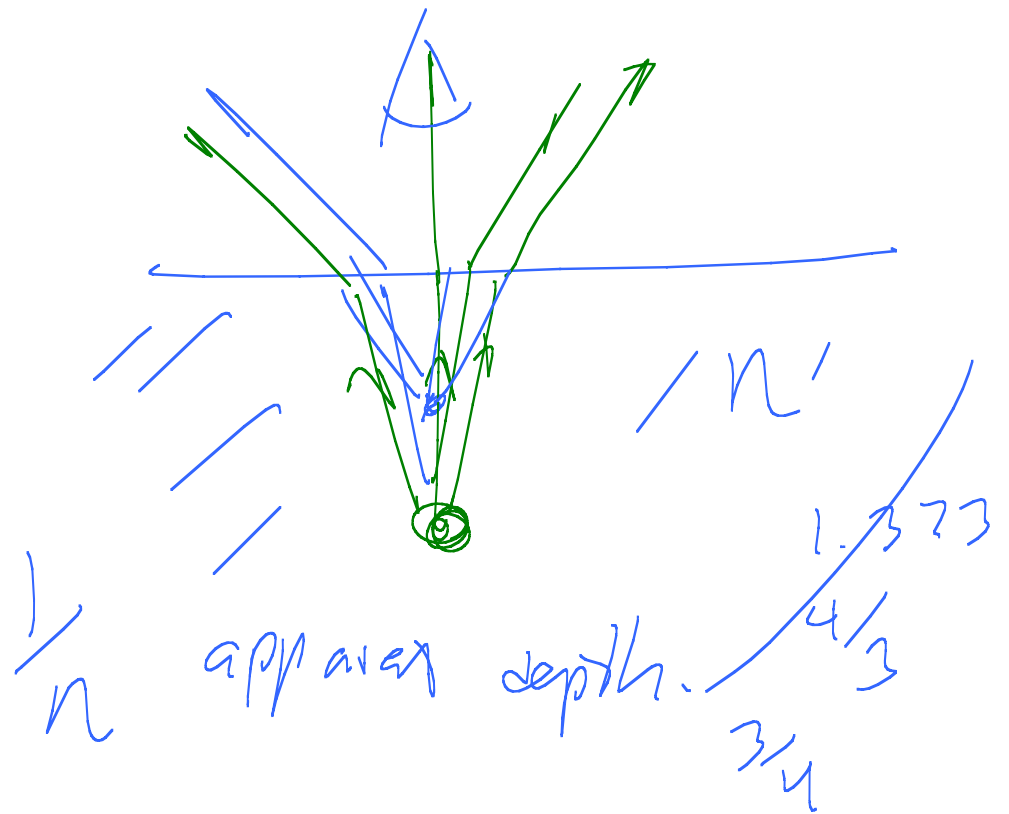
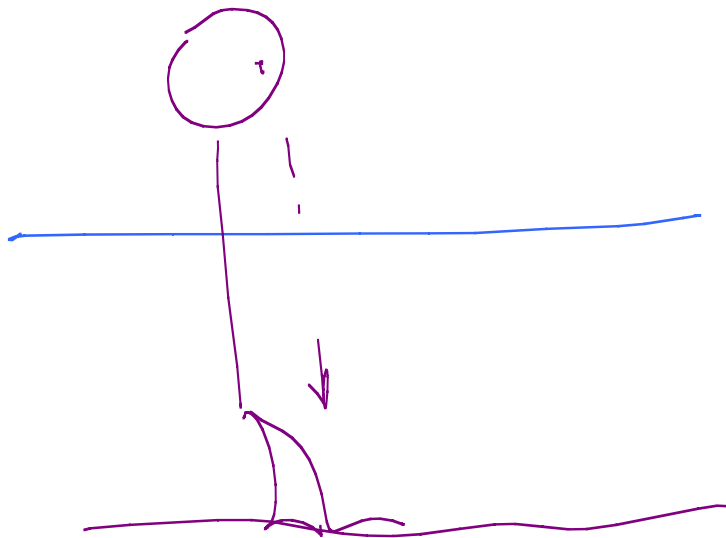
Again $2d = m \lambda_{\text{air}}$
 $= m \lambda$ Destr.

Same contruc.

Newton's rings



Problem Set:



Huygens's Principle

Gap: Points \longleftrightarrow radiators

