Laboratory 1: Interference

In this week's lab you will combine:

Multi-slit Interference

and

Single-slit Diffraction

to obtain

The total pattern,

 $I_1(\theta)$

Two slits:

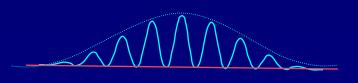
For finite sources, $I_1 = I_1(\theta)$.

 $| = 4|_{1}\cos^{2}(\phi/2)$

For point sources, I_1 = constant.

 $I = 4I_1(\theta)\cos^2(\phi/2)$

Don't forget ... The prelab is due at the beginning of lab !!



Lecture 4, p 13