

2-slits Revisited (5)

First, cover slit 2; *i.e.*, only light that goes through slit 1 is transmitted. What do we see on the screen?

We get a single-slit diffraction pattern.

Probability amplitude = ψ_1
Probability density = $|\psi_1|^2 = P_1$

Similar results when slit 1 is covered. $|\psi_2|^2 = P_2$

Changing the wave changes the probability.

