## Interference

Electric fields from two different sources at a single location add together. The same is true for magnetic fields at a single location.

Thus, interacting electromagnetic waves also add together.

























































Example: a viewing screen is separated from the double-slit source by 1.2 m. The distance between the two slits is 0.030 mm. The second-order bright fringe (m = 2) is 4.5 cm from the center line. Determine the distance between adjacent bright fringes.

Example: a viewing screen is separated from the double-slit source by 1.2 m. The distance between the two slits is 0.030 mm. The second-order bright fringe (m = 2) is 4.5 cm from the center line. Determine the width of the bright fringes.	