

Digital Junction
3/20/21

01/02/21

Myself: Optics

Interference

Dr. Sanjay K. HOD Physics
MDC, A.S.S.

Young's Expt.

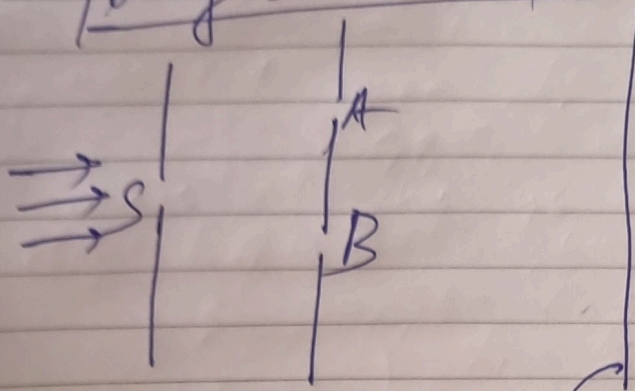


Fig. 1 Screen

A and B are equidistant from S and are close to each other.

Young performed the expt. on interference of light and allowed sunlight to fall on a pinhole S and then at some distance away by two pinholes A & B as shown in Fig. 1.

Spherical waves spread out from A & B of same amplitude and wavelength. On the screen bands are produced which are alternatively dark and bright. If two crests superimpose then bright spots are seen, or vice versa. The sources of light must emit light waves of same phase & of constant amplitude.