



Fig. 1

2. (A broadened and parallel laser beam, obtained with the lenses $f=20\text{ mm}$ and $f=100\text{ mm}$, must impinge centrally the photocell. To achieve this the distance between the laser and the lens $f=20\text{mm}$ is kept 11.5 cm whereas the distance between the lenses $f=20\text{mm}$ and $f=100\text{mm}$ is adjusted to 13 cm .)
3. Place the single slit perpendicular to the beam at a distance of $5\text{ to }6\text{ cm}$ from the lens $f=100\text{mm}$. This makes a separation about 1m between the slit and the photocell.
4. Place the screen on the optical bench as far as possible from the single slit. Adjust the width of the slit to get bright and distinct fringes on the screen.
5. Measure the micrometer constant of the scale attached to the photocell detector. Remove the screen and place the photocell at one end of the fringe system. You should include $2\text{-}3$ secondary maxima on either side of the central maximum. Turn the circular scale attached at the base of the cell in equal intervals and note that the intensity of the fringes using a multimeter. Reach the other end of the fringe system this way noting down many readings of the intensities in between. Repeat your readings moving in reverse direction.
6. Measure the distance, D , separation between slit and the detector, using the scale on the optical bench.
7. Calculate angular deviation for all above positions and plot two separate graphs in θ vs. intensity (as shown in Fig. 2), one for left to right and another for right to left observations. Calculate the slit width from both graphs.
8. Determine the vernier constant of the traveling microscope and measure the width b of the slit at several position, and find the mean b , by illuminating the single slit from behind.

Iit Kharagpur Physics Lab Manual

Lauren Gardner



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