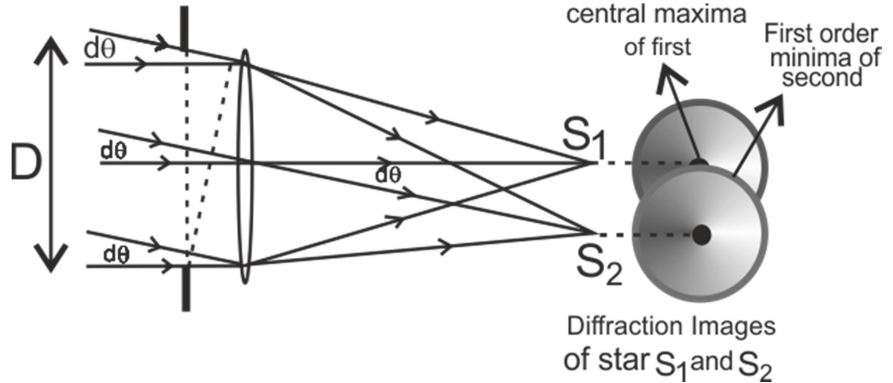


## Resolving power of the Telescope

The reciprocal of the smallest angular separation ( $d\theta$ ) between the two objects (say stars) whose images can be seen through the telescope separately, is known as resolving power of the



telescope. i.e., R.P. =  $\frac{1}{d\theta}$

Where,  $d\theta$  is called the angular resolution of the telescope.

For a telescope with objective lens of aperture  $D$ .

$$d\theta = \frac{1.22\lambda}{D}$$

so, resolving power is