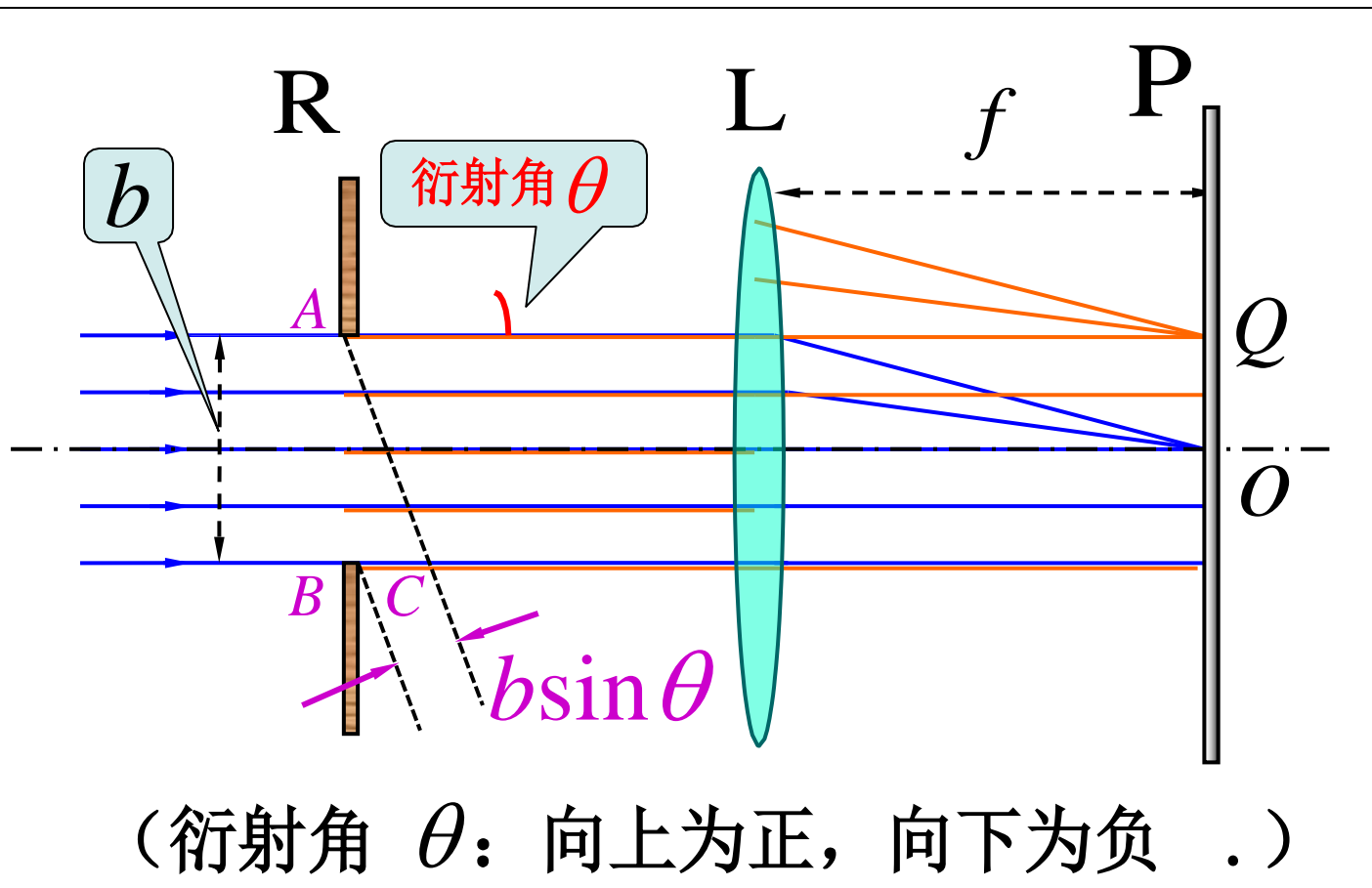
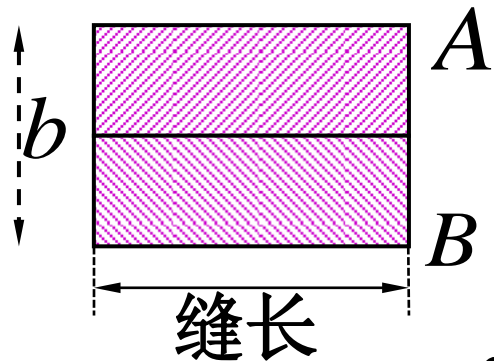


夫琅禾费单缝衍射

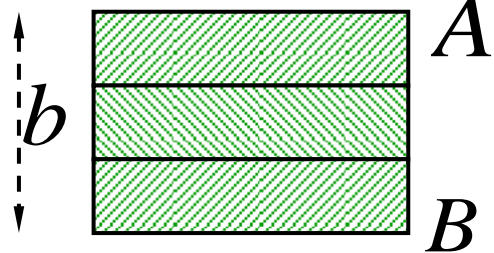


菲涅尔波带法 $BC = b \sin \theta = \pm k \frac{\lambda}{2} \quad (k = 1, 2, 3, \dots)$

一 半波带法

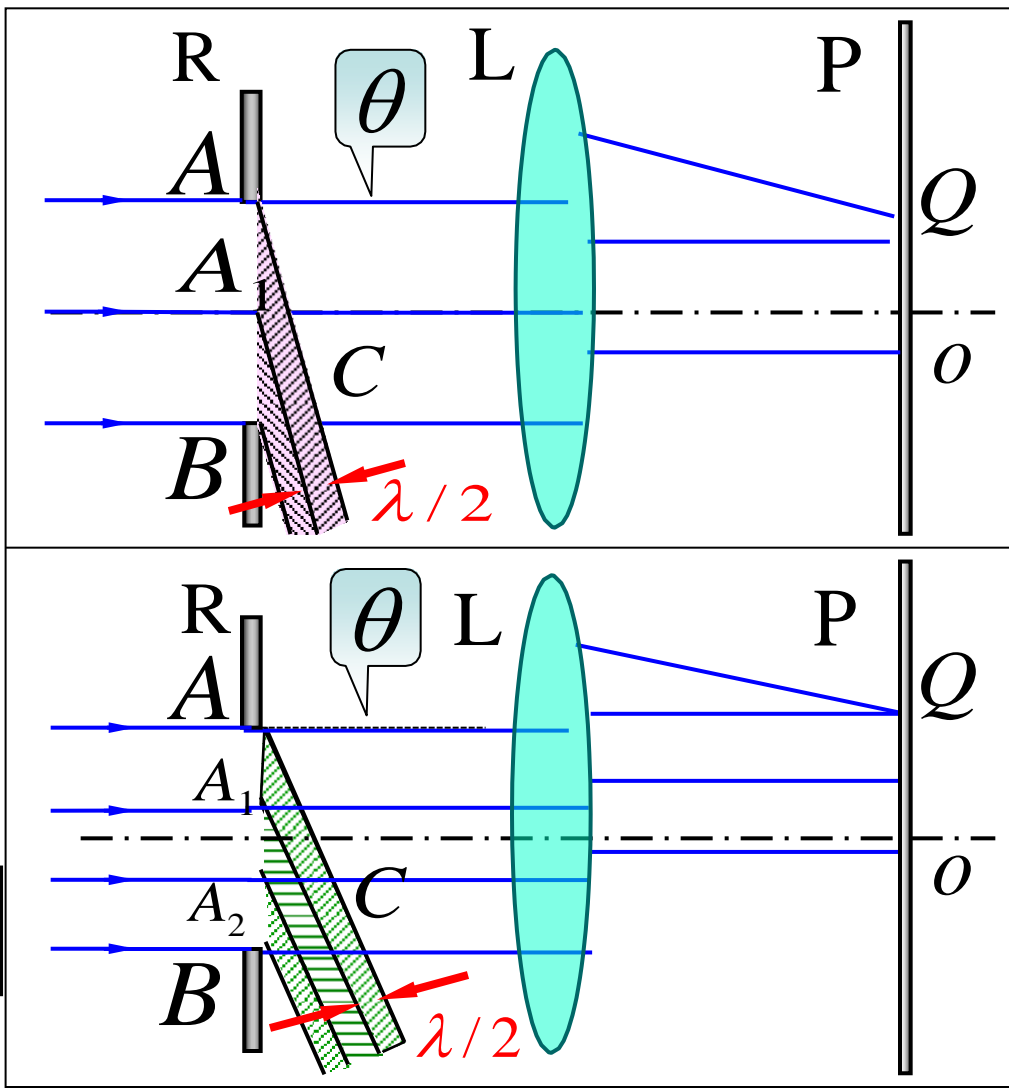


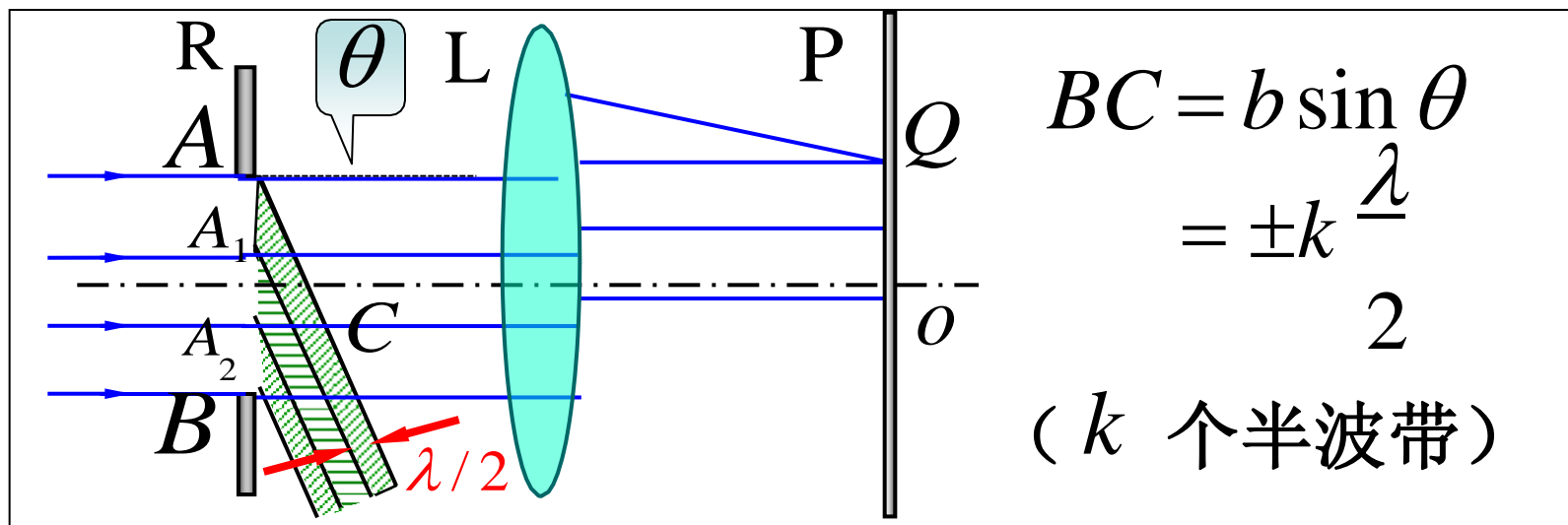
$$b \sin \theta = \pm 2k \lambda$$



$$b \sin \theta = \pm (2k + 1) \lambda$$

$$k = 1, 2, 3, \dots$$

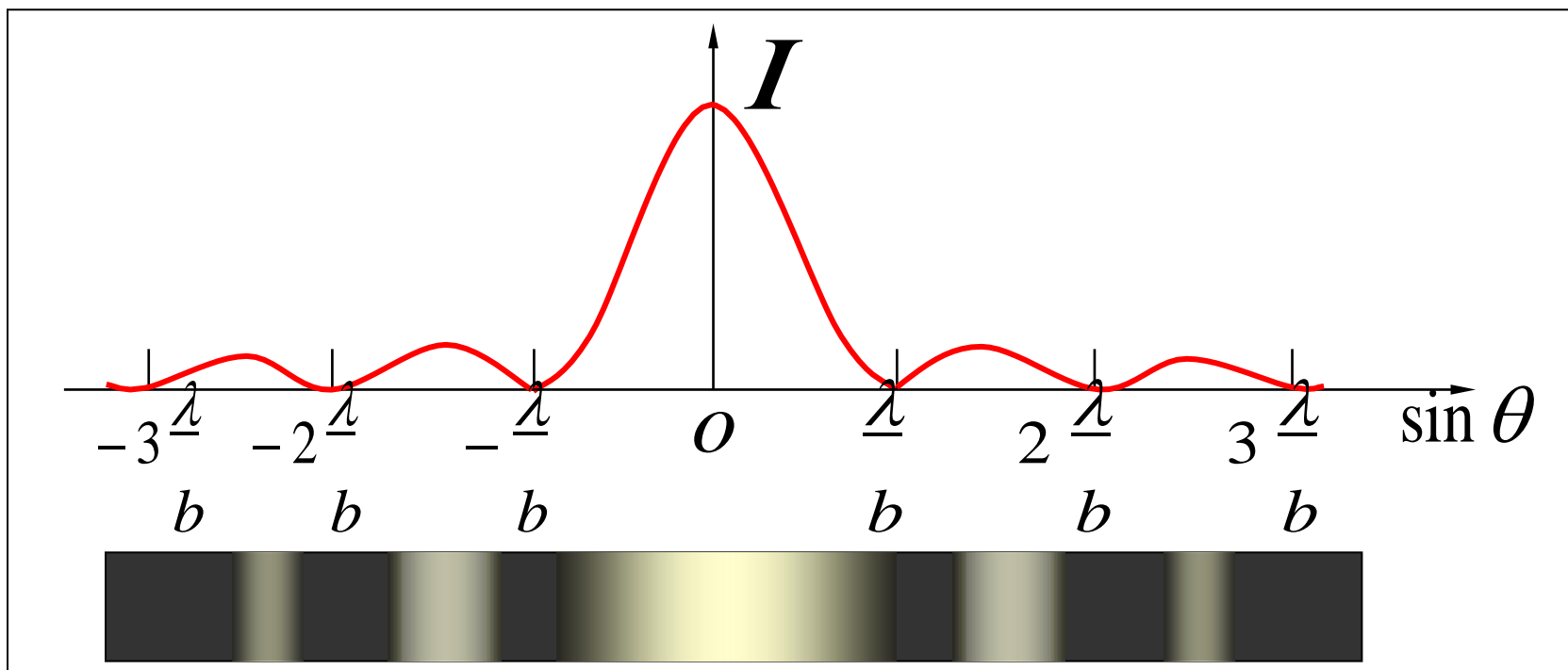




$b \sin \theta = 0$	<p>中央明纹中心</p>	
$b \sin \theta = \pm 2k \frac{\lambda}{2} = \pm k \lambda$	<p>干涉相消 (暗纹)</p>	<p>2k 个半波带</p>
$b \sin \theta = \pm (2k + 1) \frac{\lambda}{2}$	<p>干涉加强 (明纹)</p>	<p>2k + 1 个半波带</p>
$b \sin \theta \neq k \frac{\lambda}{2}$	<p>(介于明暗之间)</p>	<p>(k = 1, 2, 3, ...)</p>

二 光强分布

$$\begin{cases} b \sin \theta = \pm 2k \frac{\lambda}{2} = \pm k \lambda & \text{干涉相消 (暗纹)} \\ b \sin \theta = \pm (2k + 1) \frac{\lambda}{2} & \text{干涉加强 (明纹)} \end{cases}$$



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