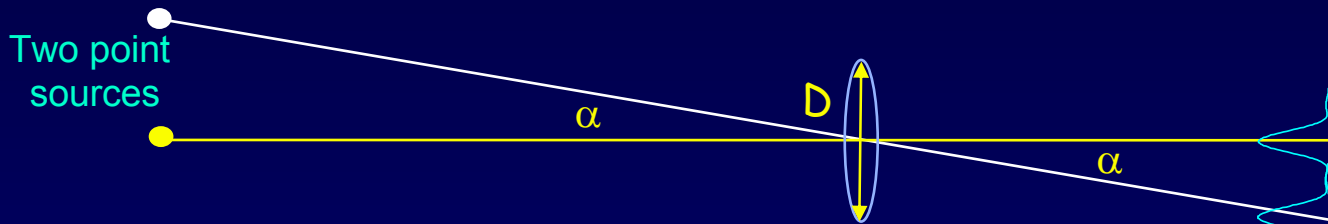


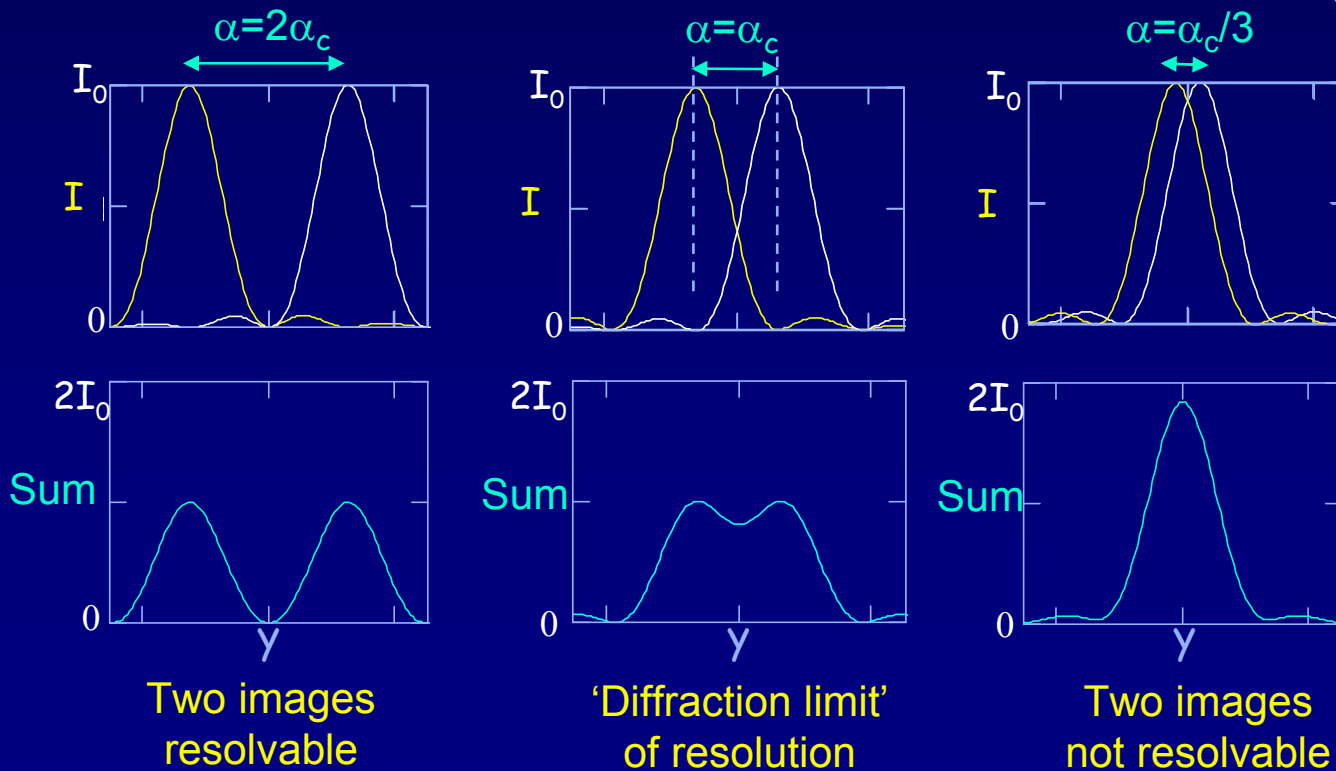
# Angular Resolution

Diffraction also limits our ability to “resolve” (*i.e.*, distinguish) two point sources. Consider two point sources (e.g., stars) with angular separation  $\alpha$  viewed through a circular aperture or lens of diameter  $D$ .



Rayleigh's Criterion defines the images to be resolved if the central maximum of one image falls on or further than the first minimum of the second image.

$$\alpha_c = 1.22 \frac{\lambda}{D}$$



NOTE:  
No interference!!  
Why not?