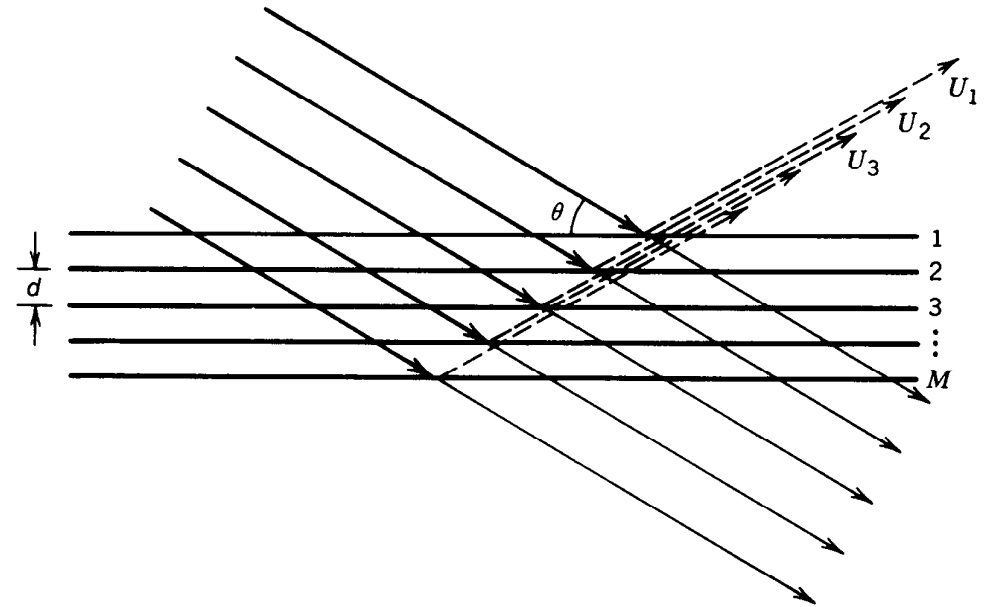
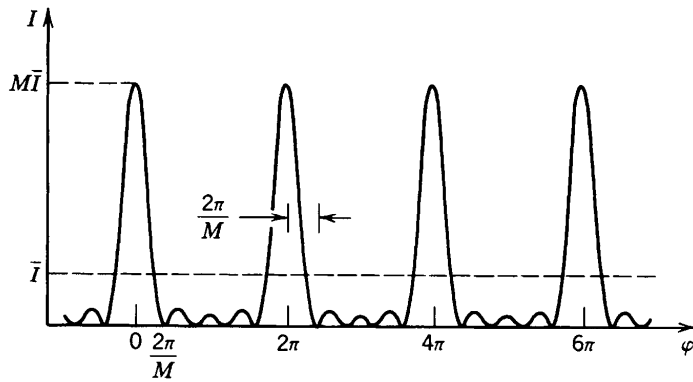
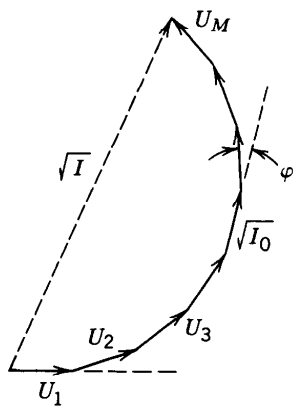


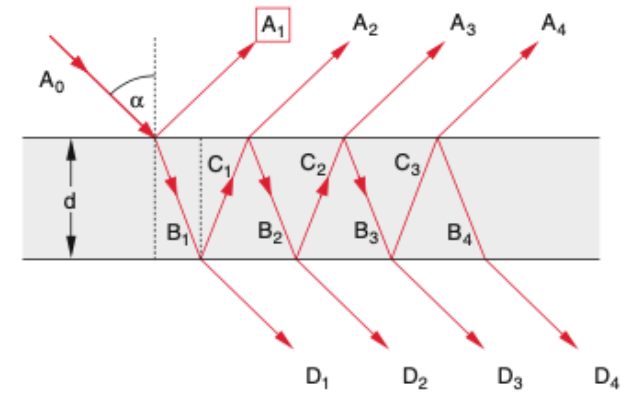
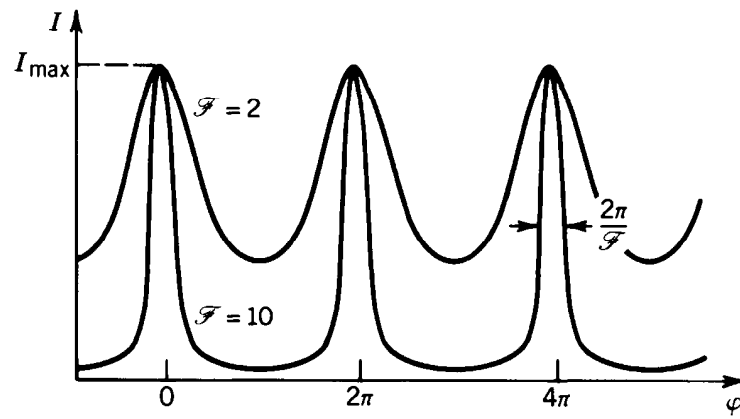
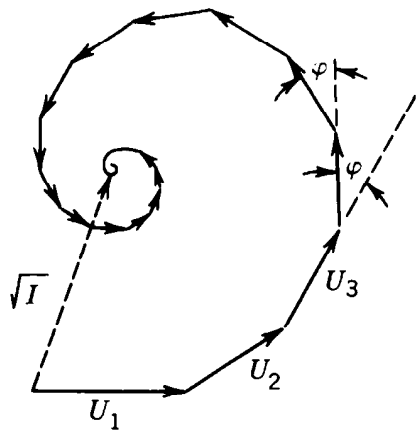
Experimental Physics 3 - Em-Waves, Optics, Quantum mechanics

Lecture 10

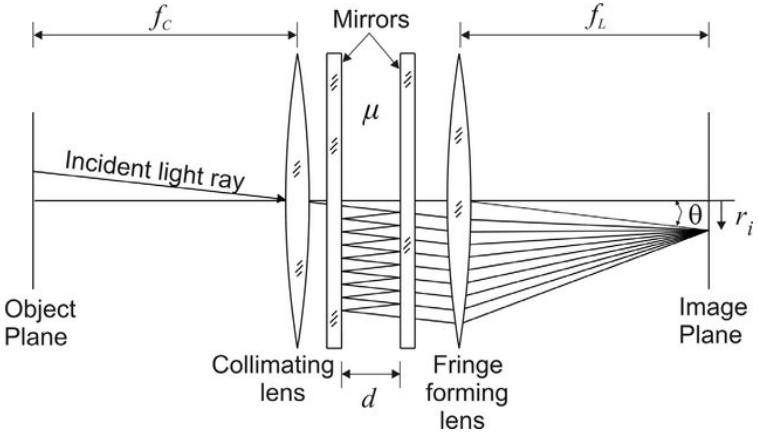
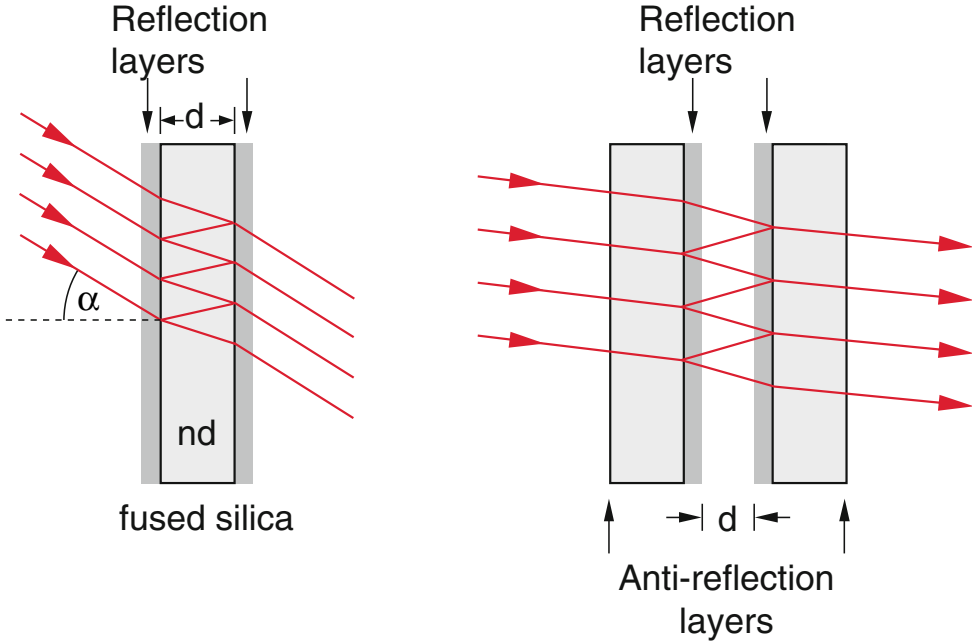
Multiple Wave Interference - Constant Intensity



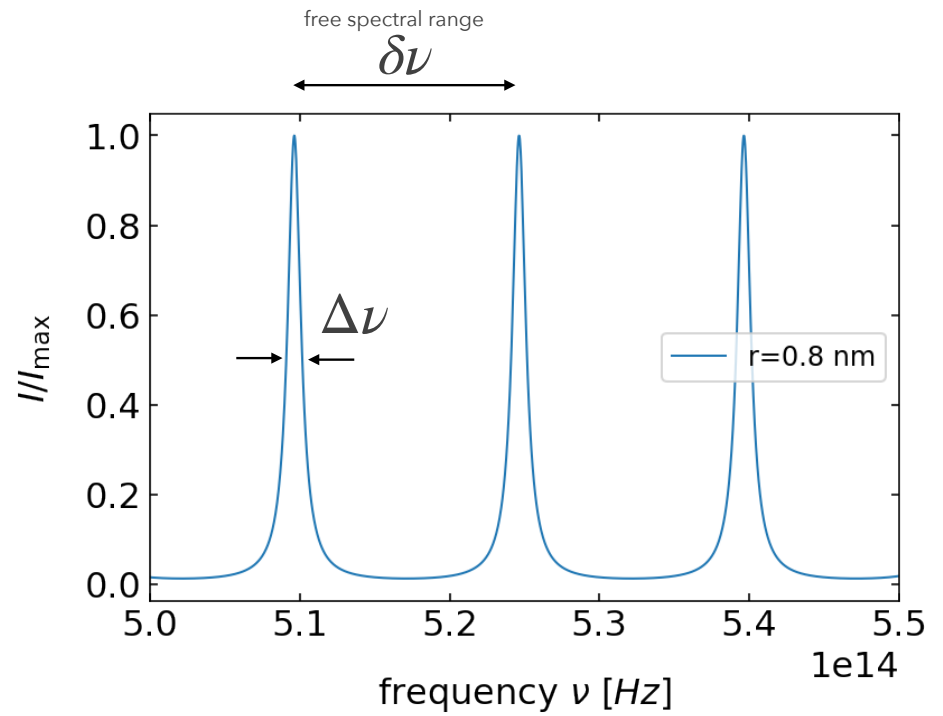
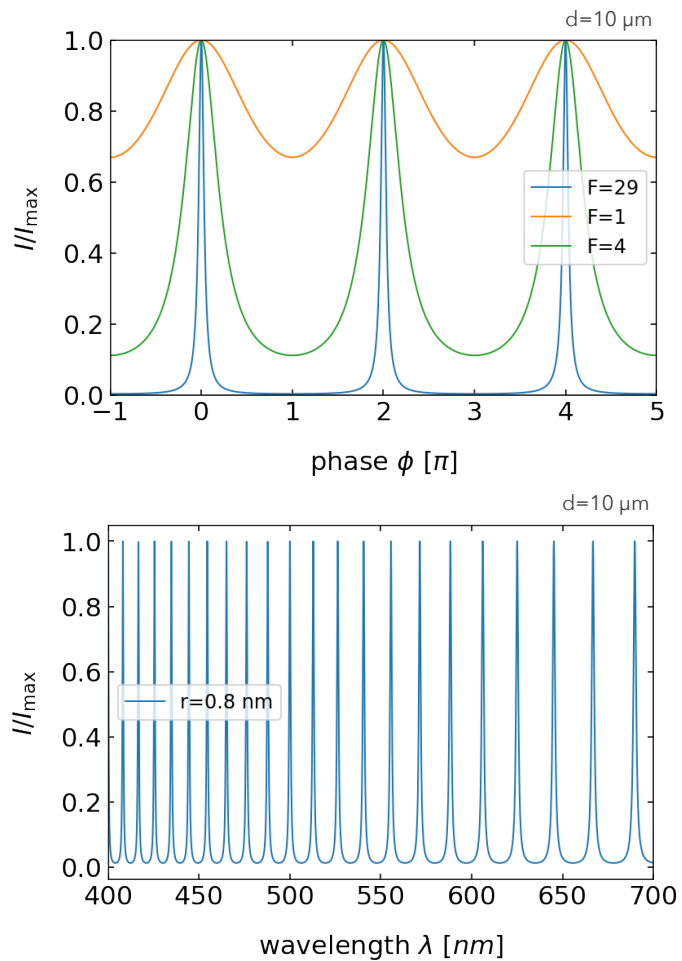
Multiple Wave Interference - Decaying Intensity



Fabry Perot Interferometer

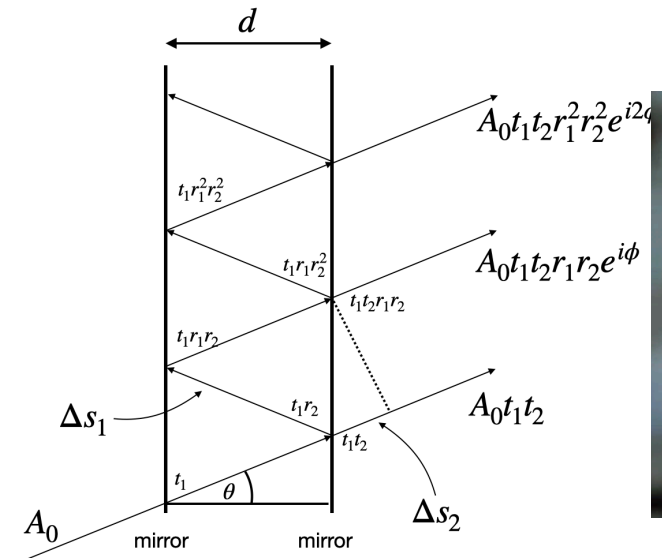


Fabry Perot Interferometer

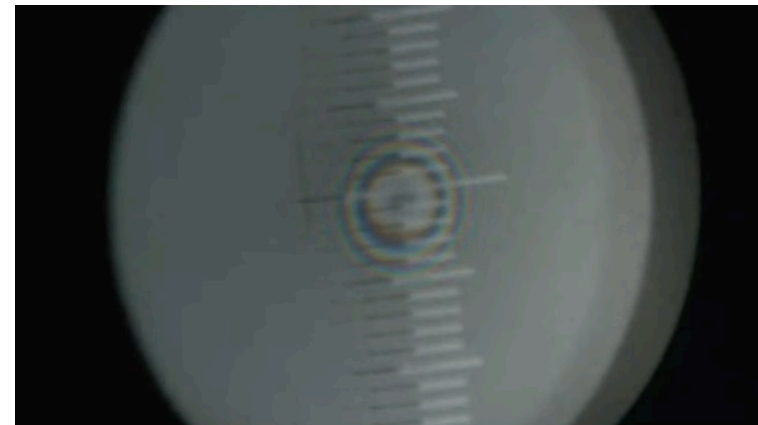
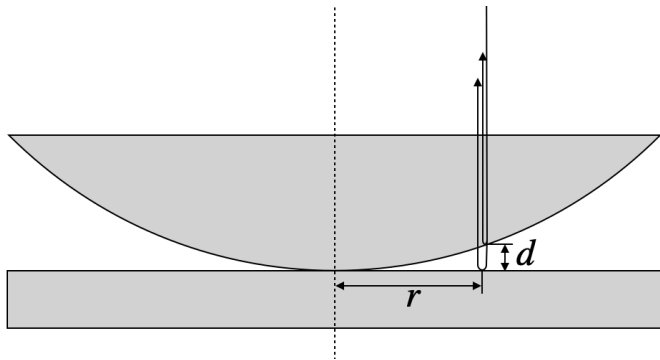


$$\mathcal{F} = \frac{\delta\nu}{\Delta\nu}$$

Fabry Perot Interferometer



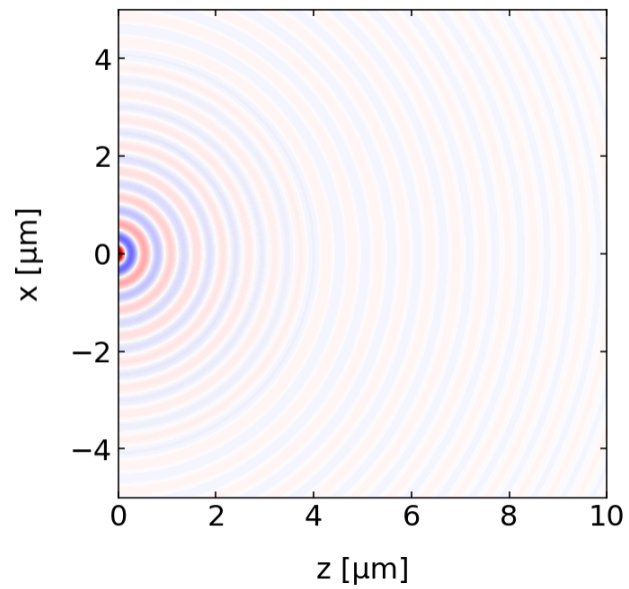
Newton Rings



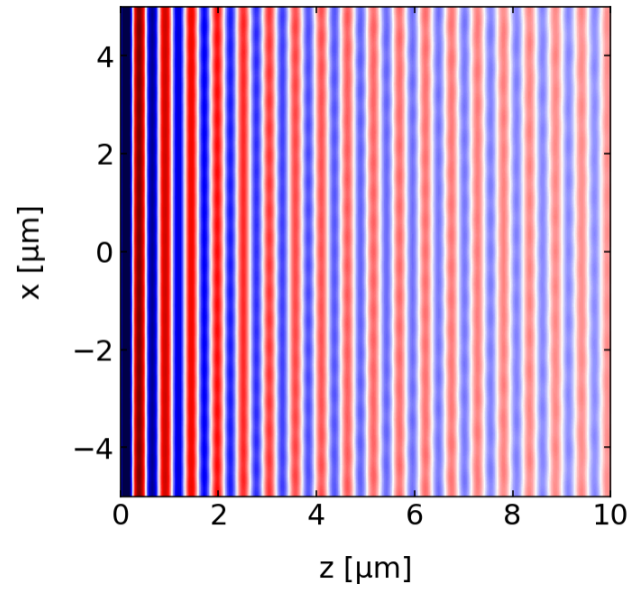
2.3 Diffraction

2.3.1 Huygens Principle

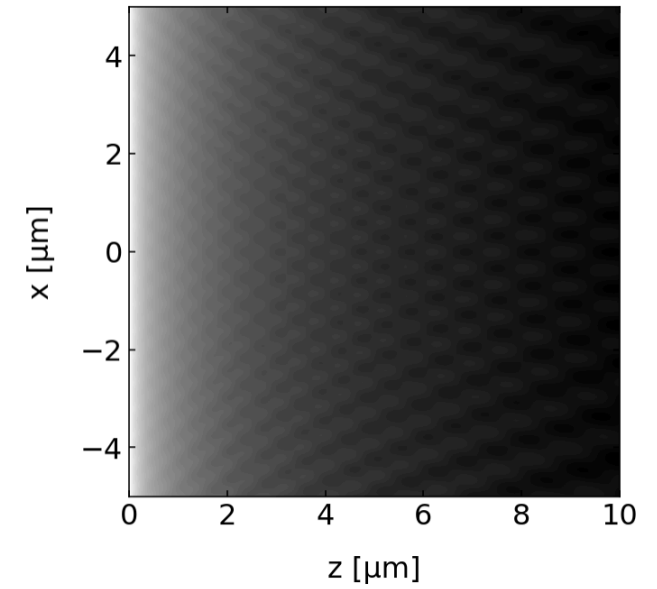
single spherical wave



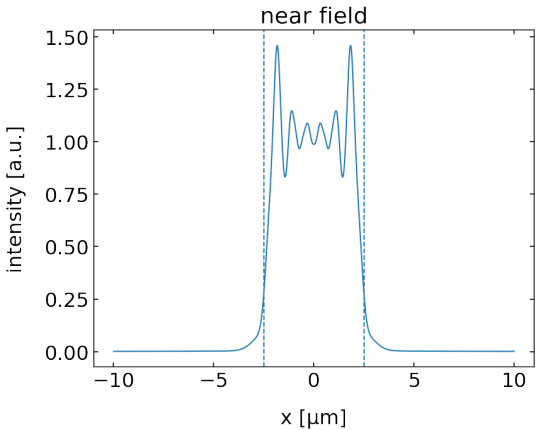
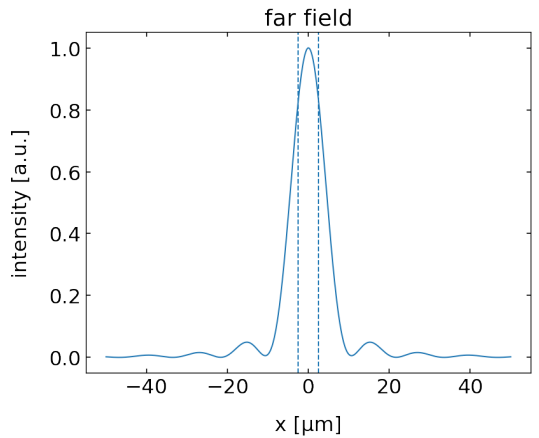
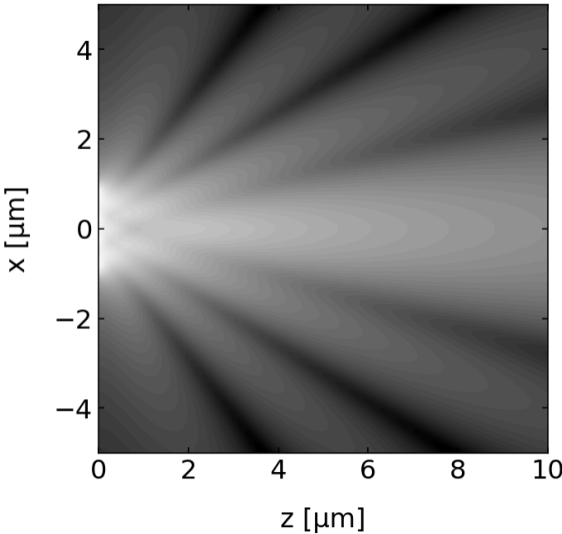
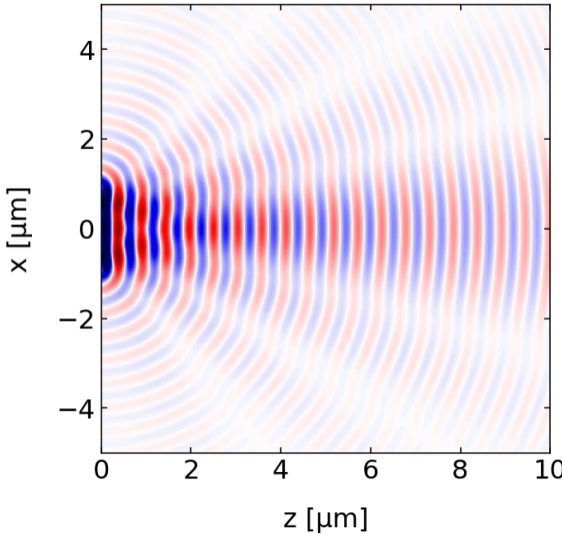
500 spherical waves



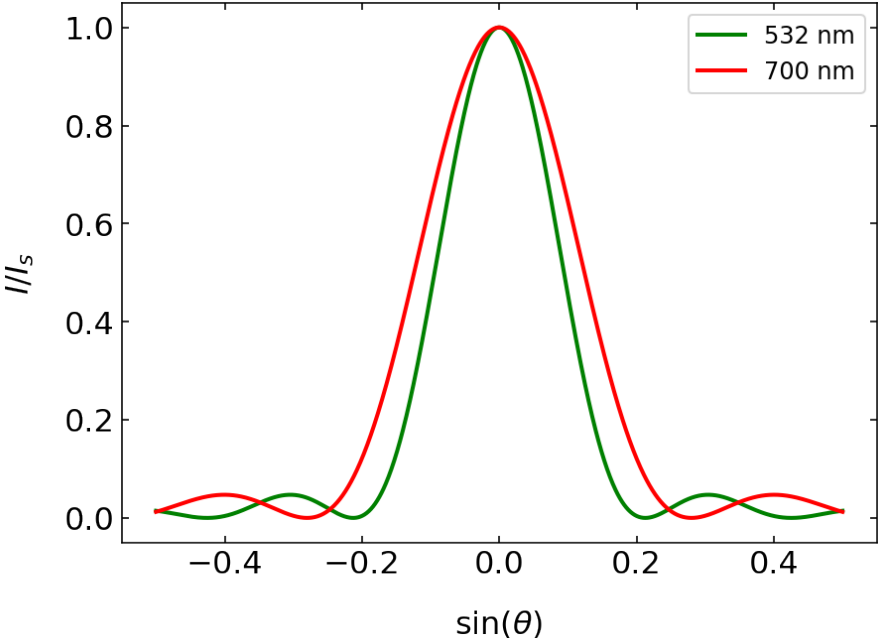
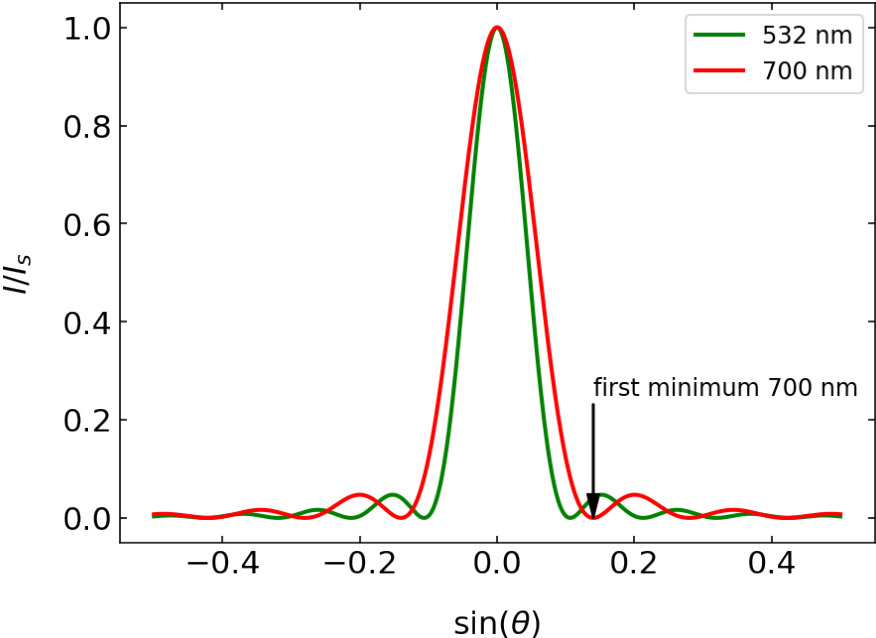
Intensity



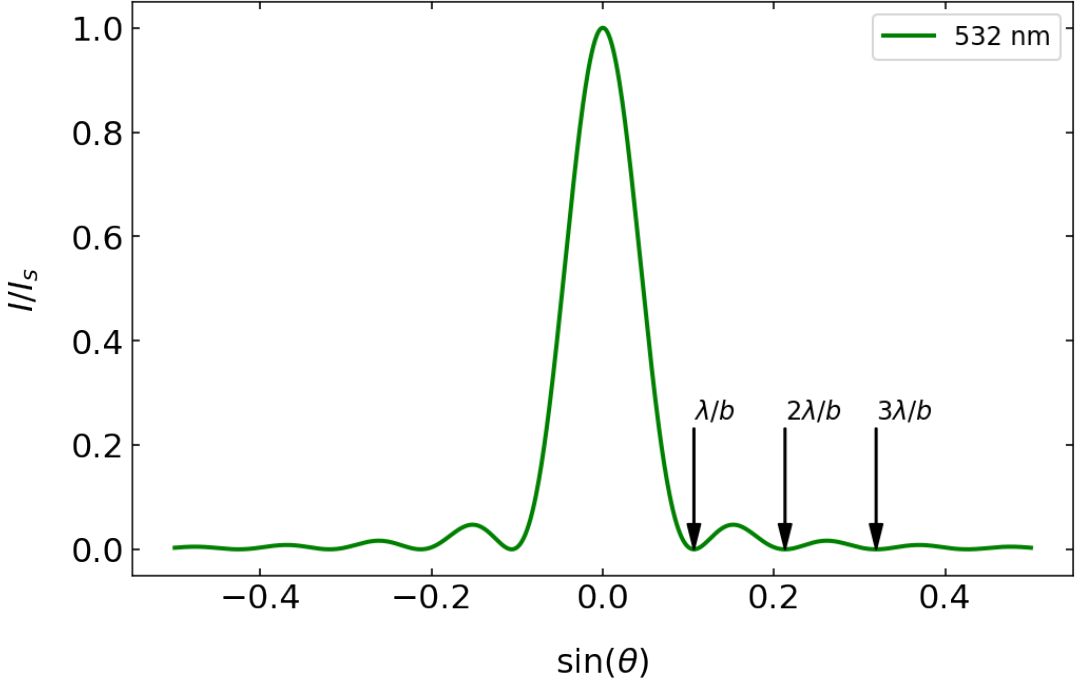
2.3.2 Single Slit



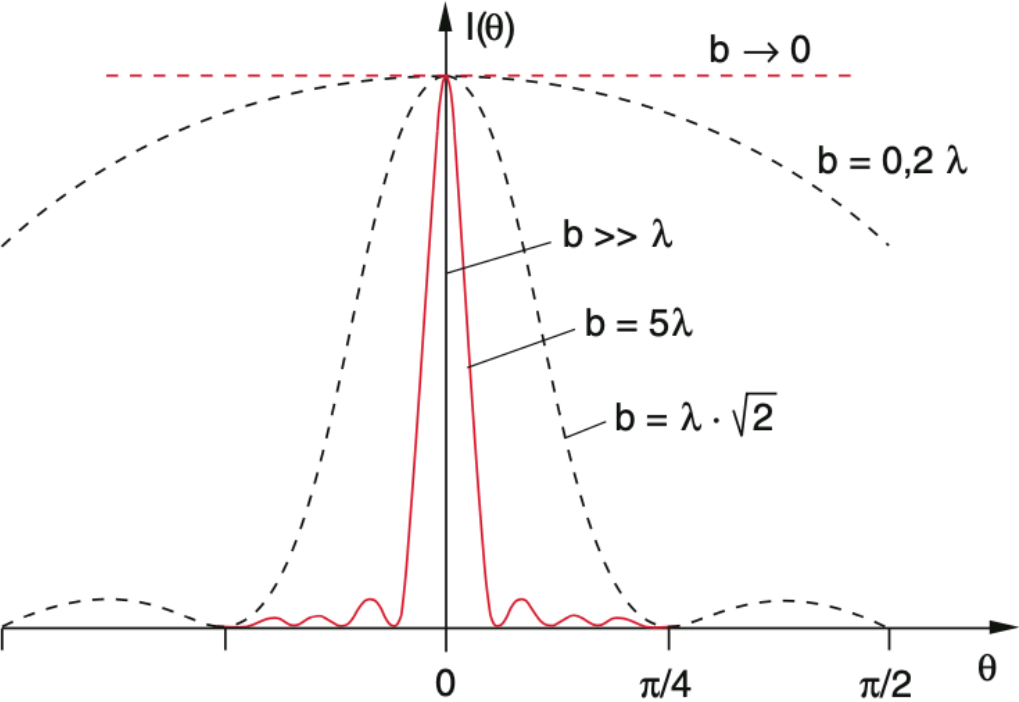
Single Slit Diffraction



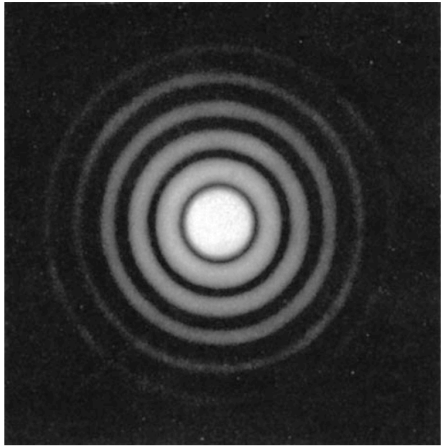
Single Slit Diffraction



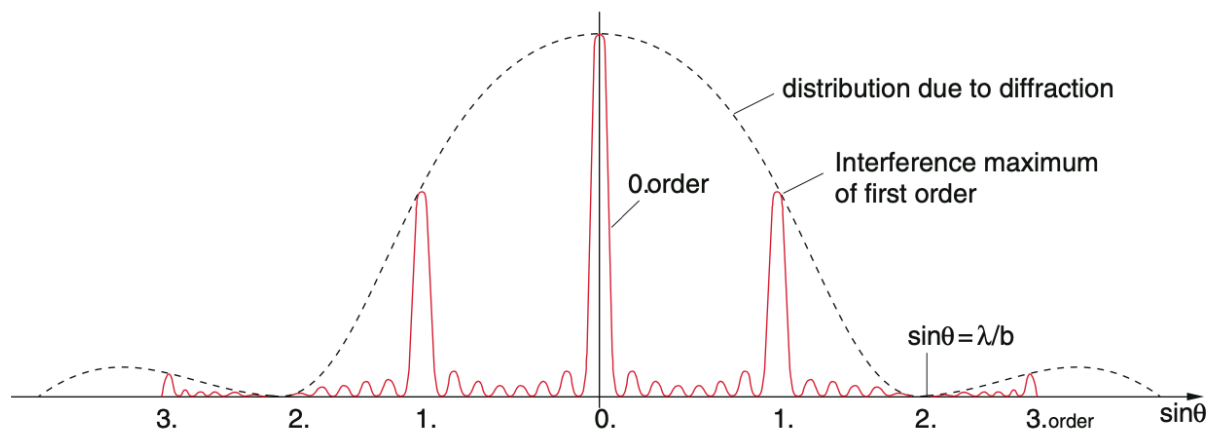
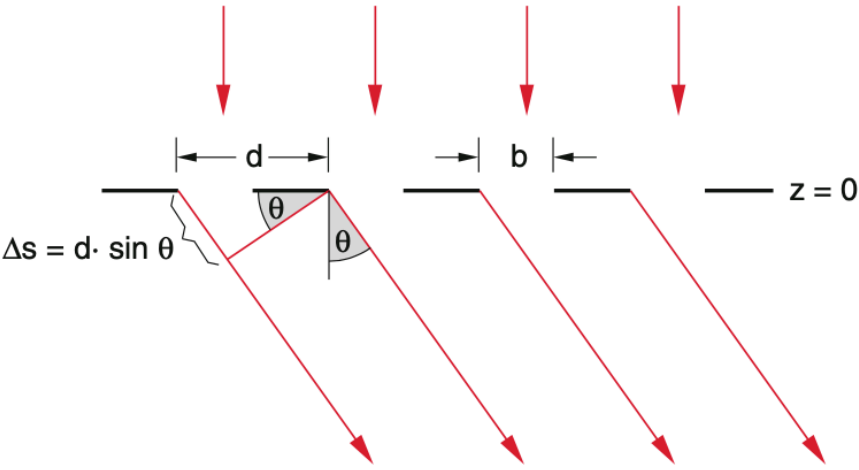
Single Slit Diffraction



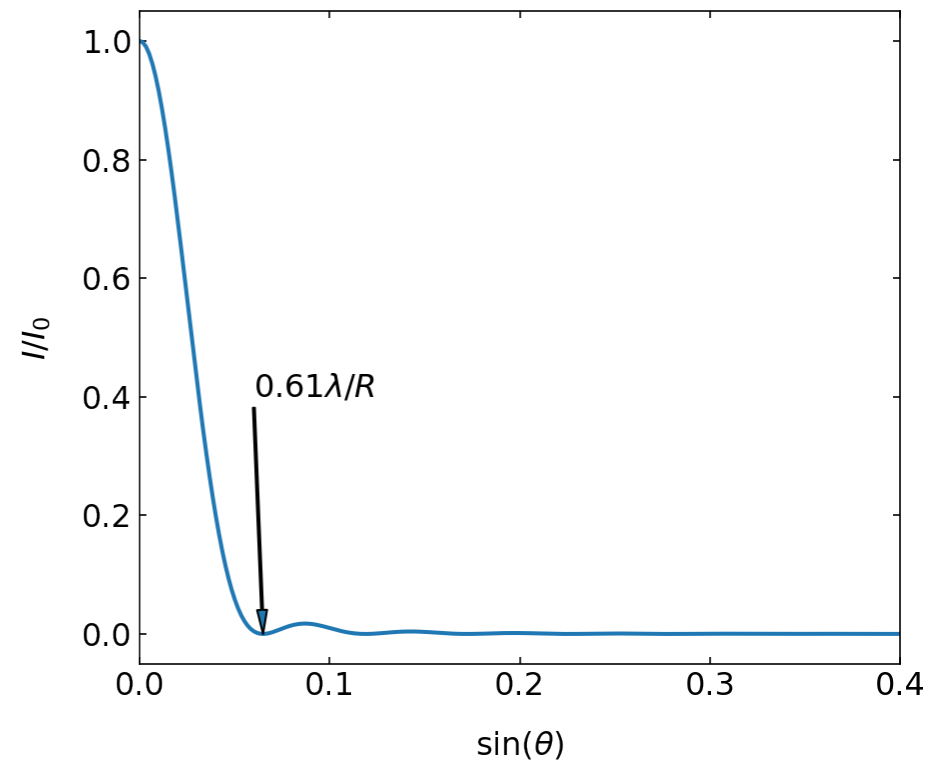
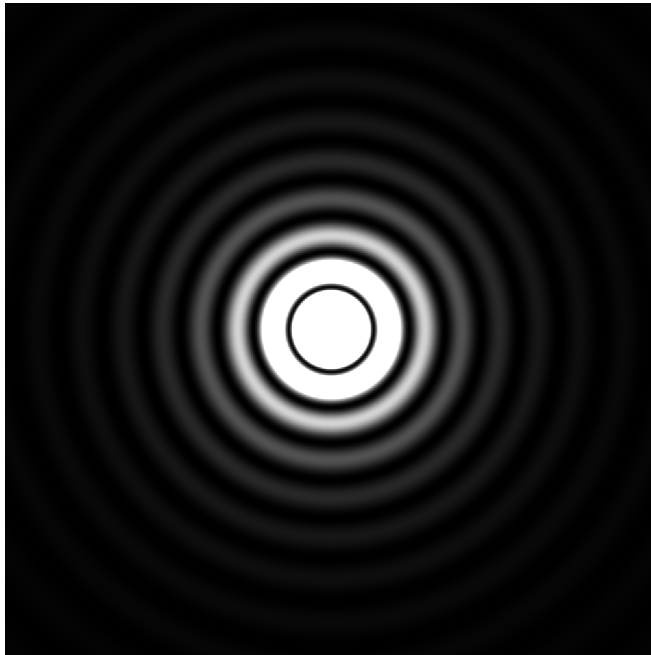
circular aperture



Diffraction Grating



Circular Aperture



Optical Resolution

