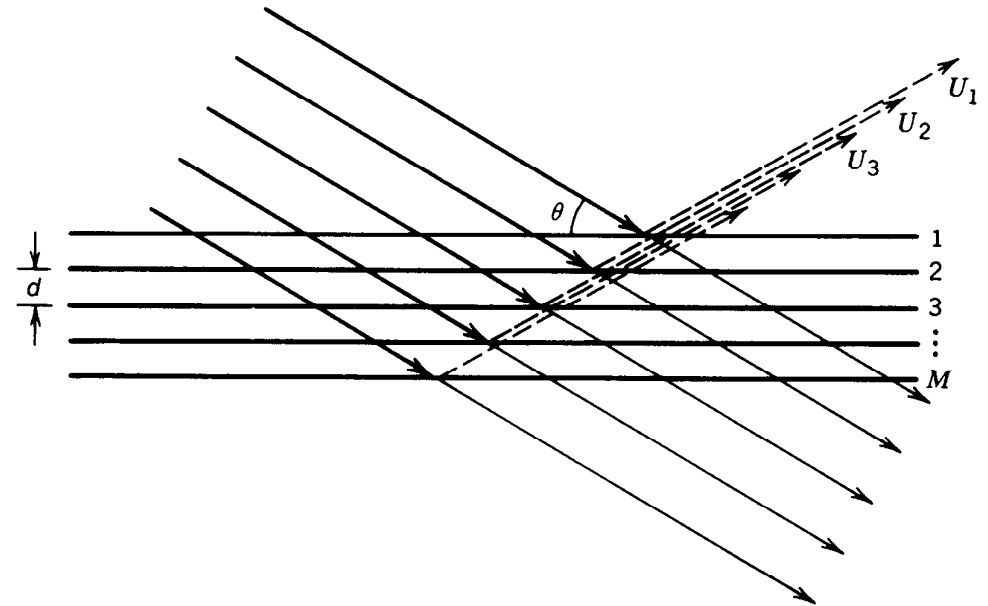
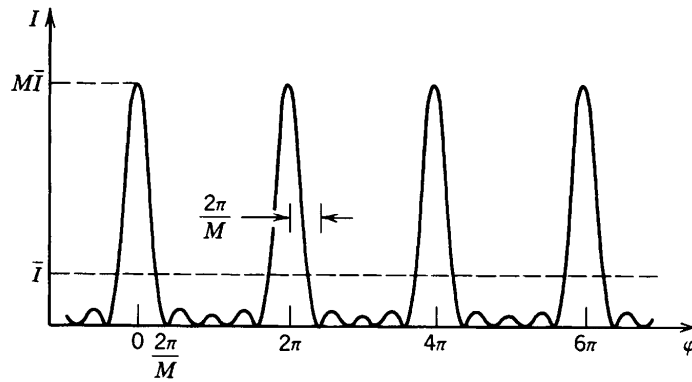
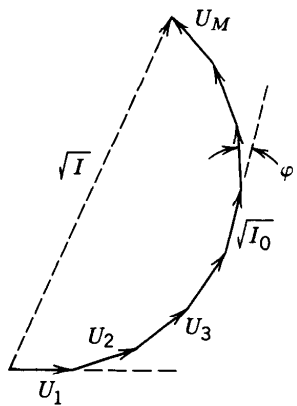


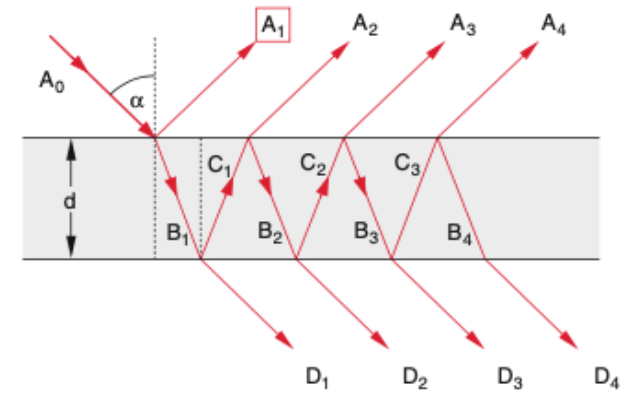
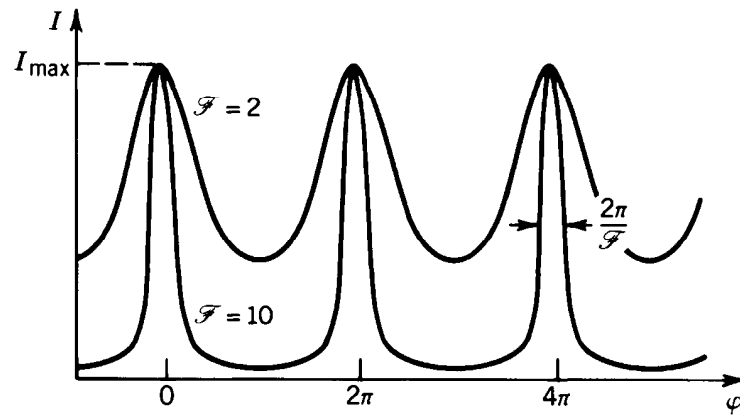
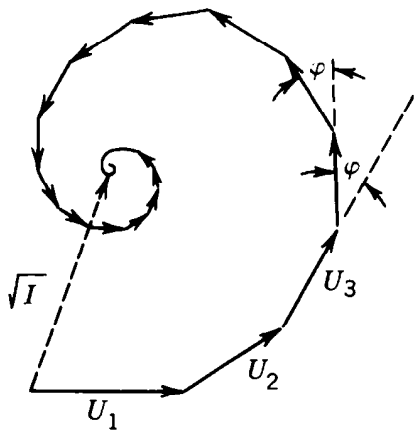
Experimental Physics 3 - Em-Waves, Optics, Quantum mechanics

Lecture 10

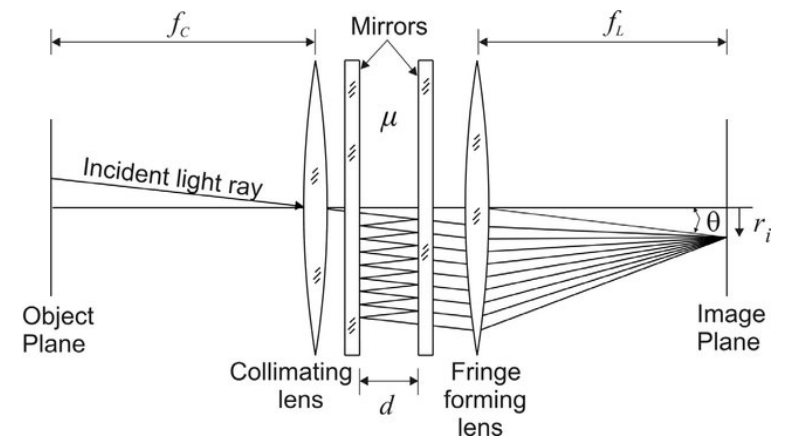
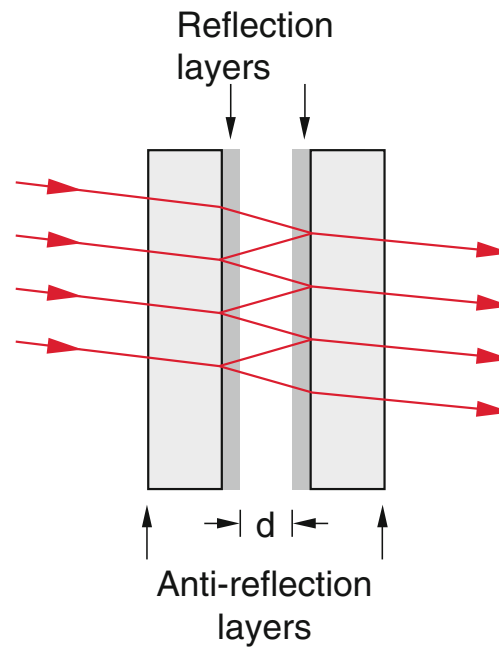
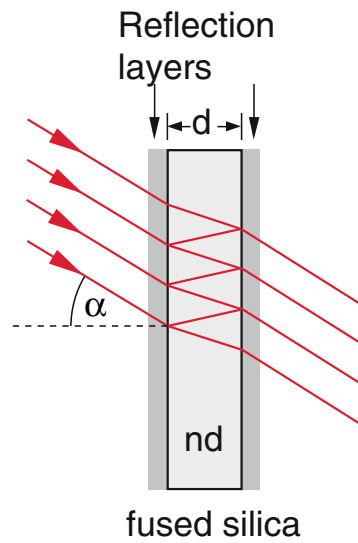
Multiple Wave Interference - Constant Intensity



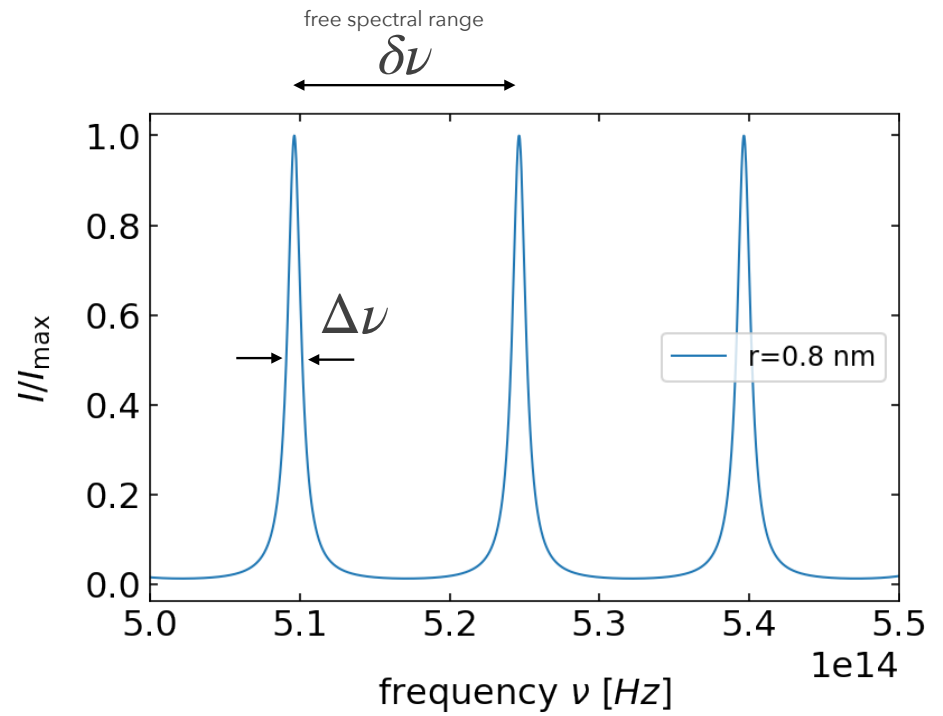
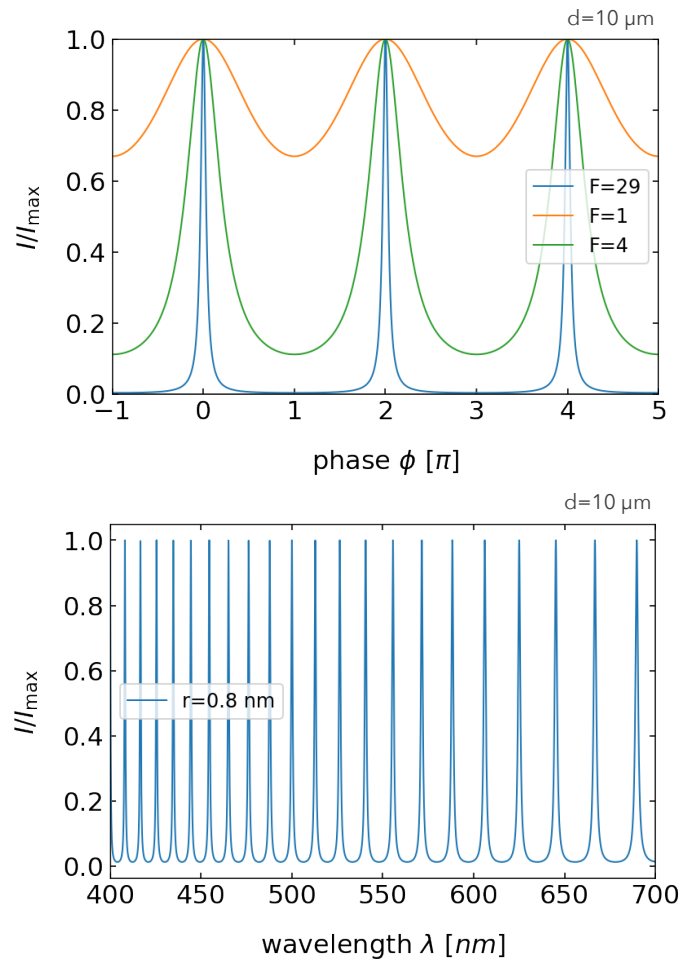
Multiple Wave Interference - Decaying Intensity



Fabry Perot Interferometer

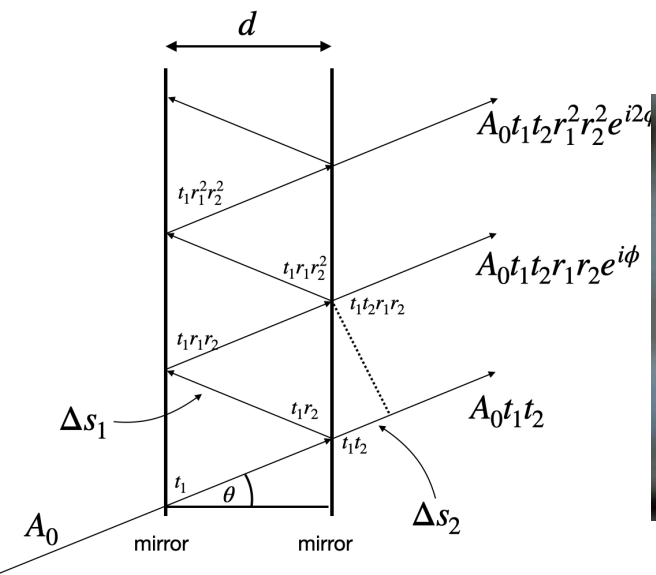


Fabry Perot Interferometer

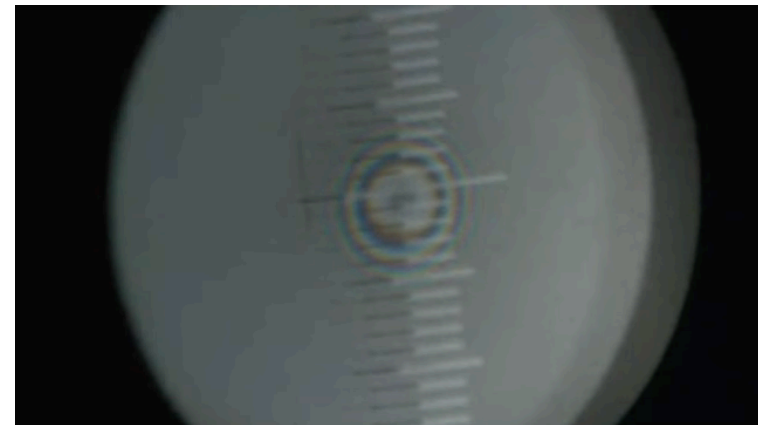
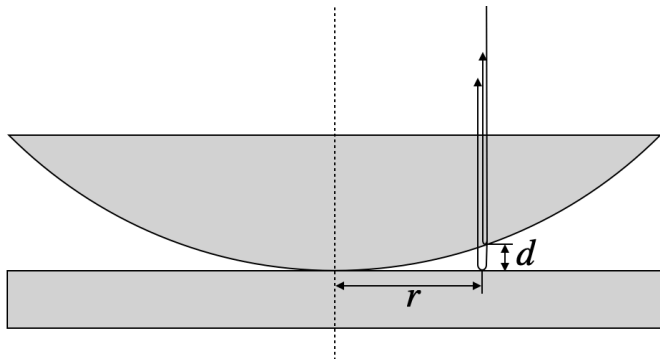


$$\mathcal{F} = \frac{\delta\nu}{\Delta\nu}$$

Fabry Perot Interferometer



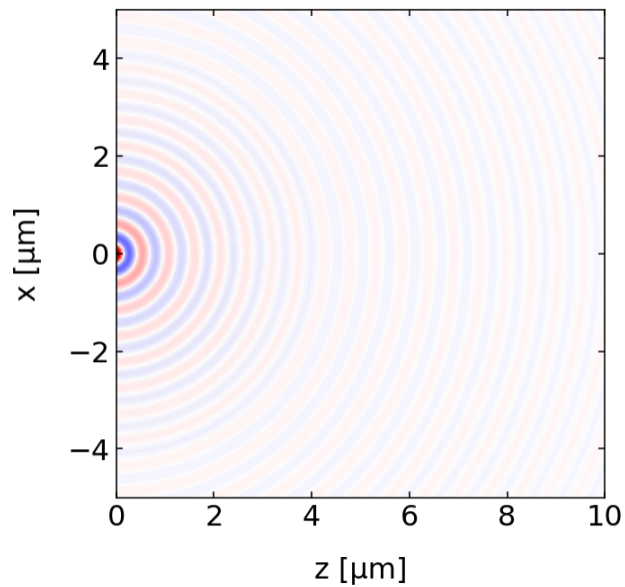
Newton Rings



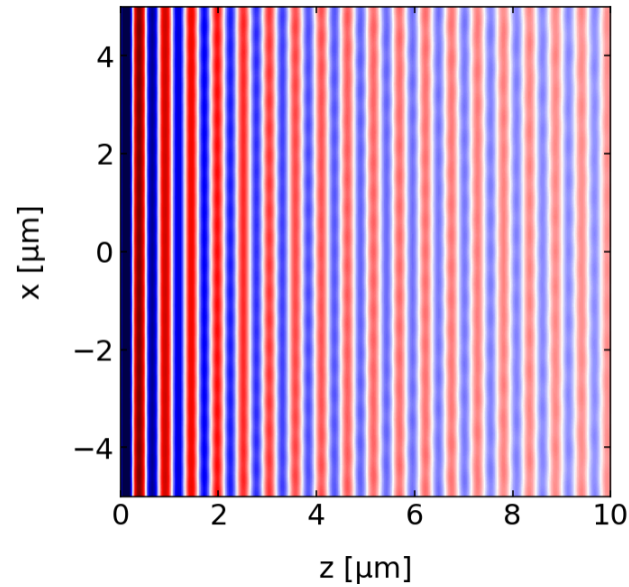
2.3 Diffraction

2.3.1 Huygens Principle

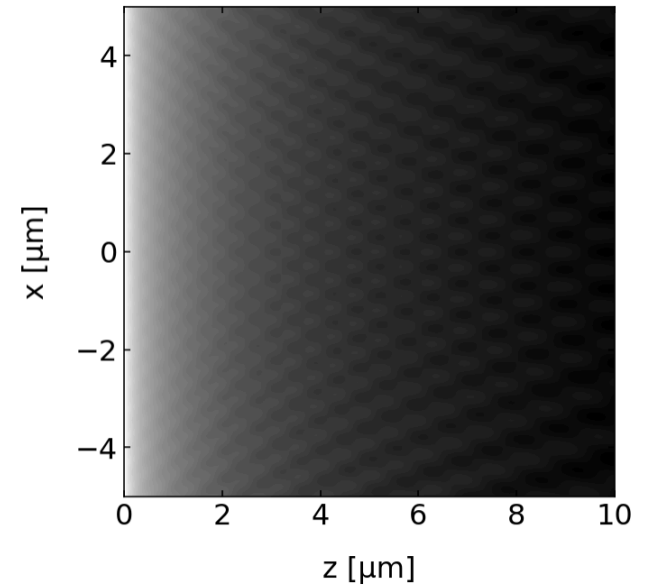
single spherical wave



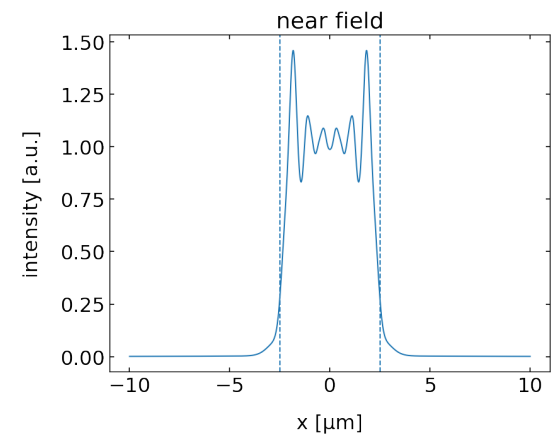
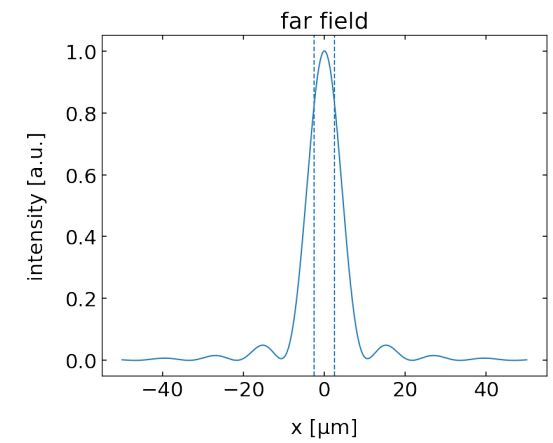
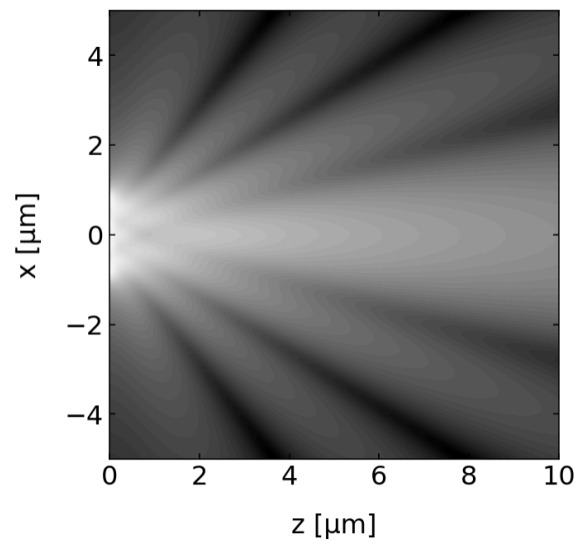
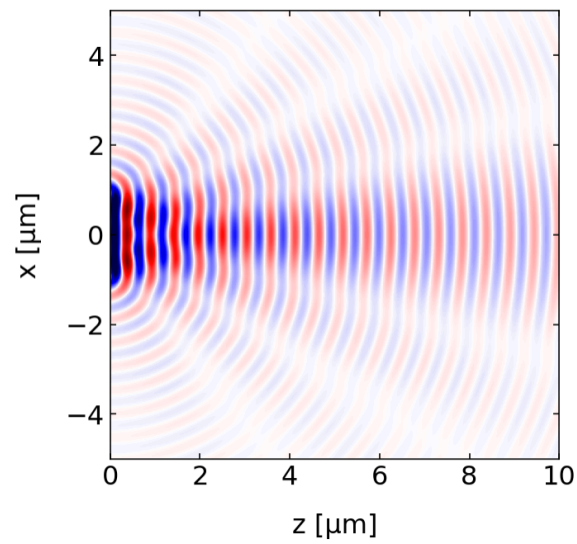
500 spherical waves



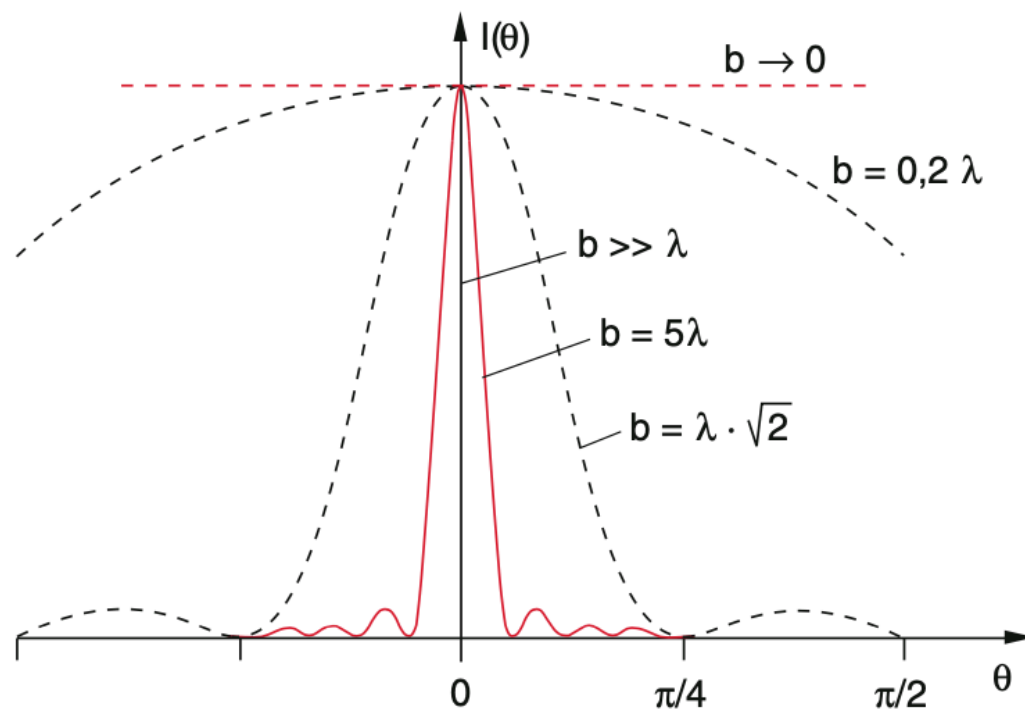
Intensity



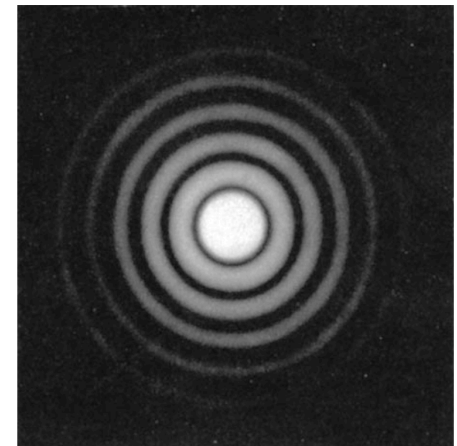
2.3.2 Single Slit



Single Slit Diffraction



circular aperture



Diffraction Grating

