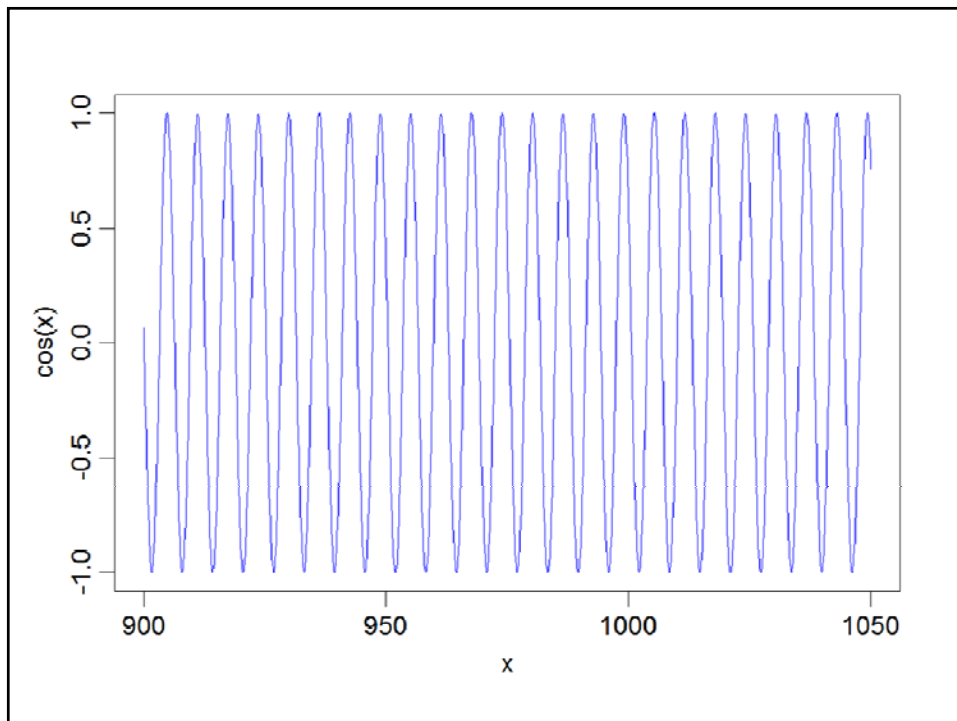
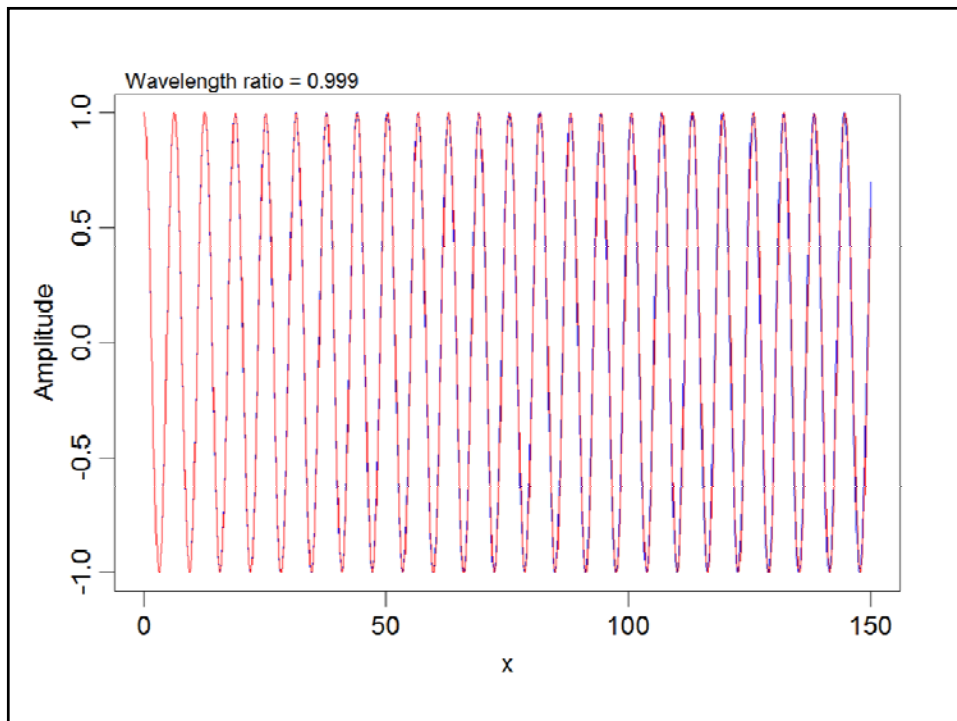
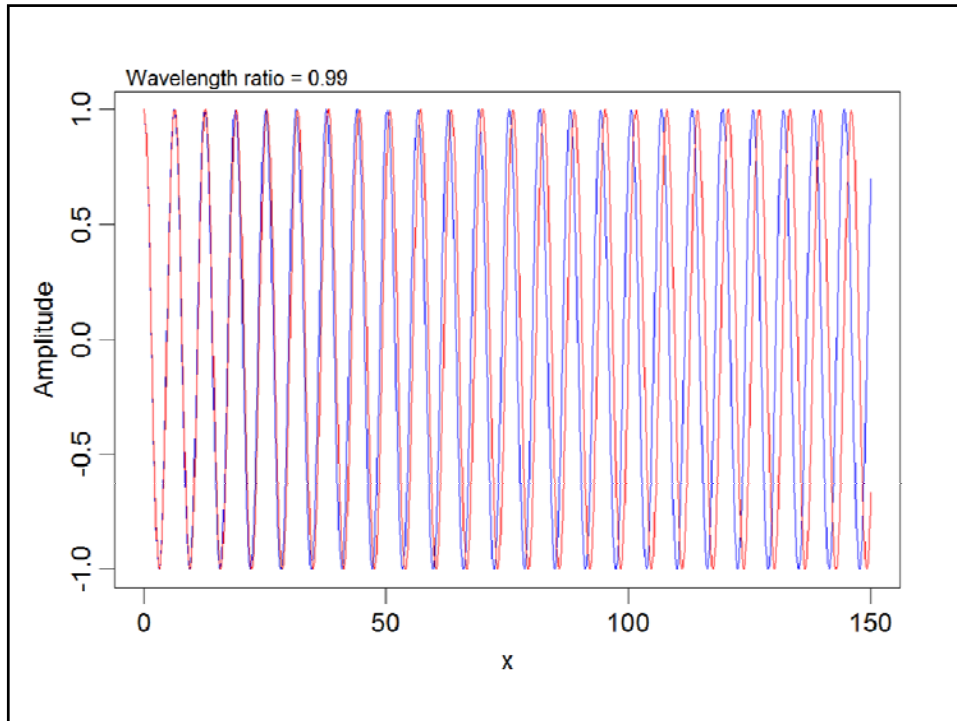
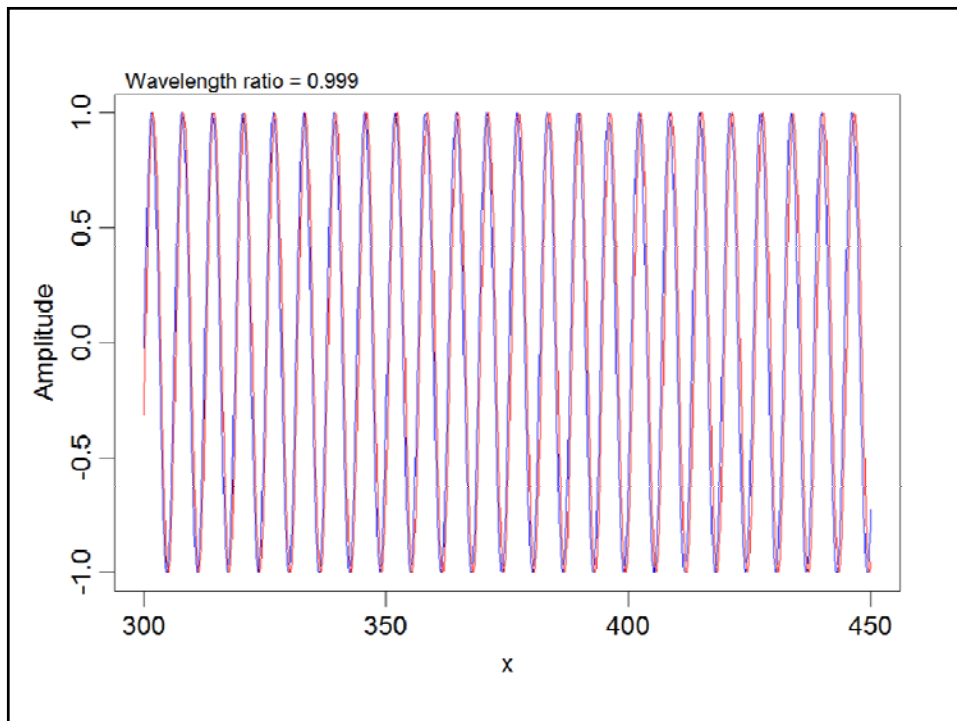
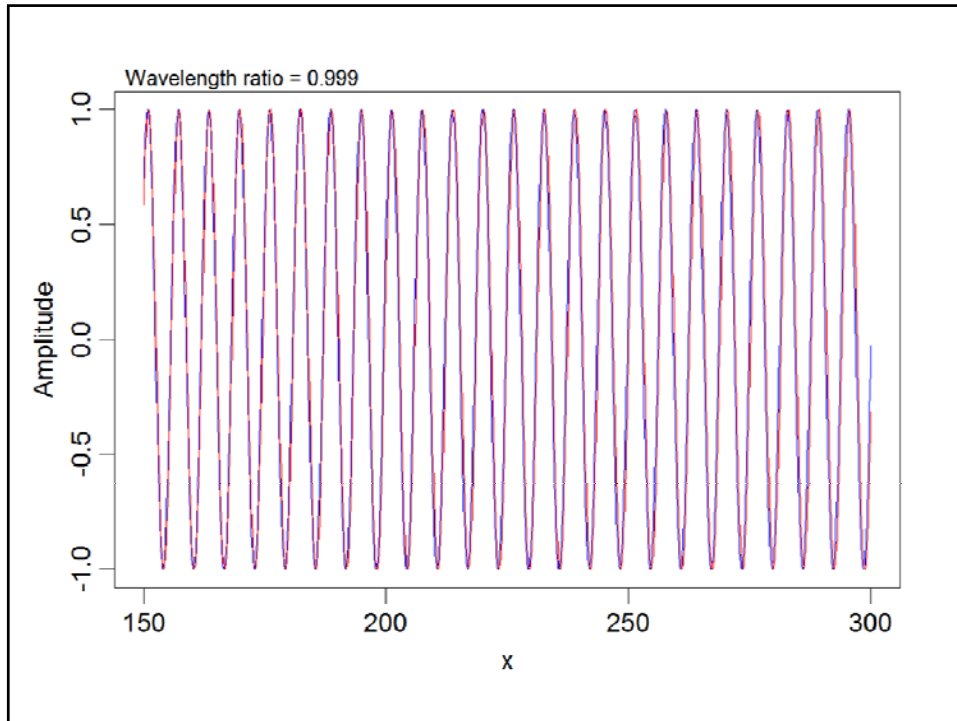


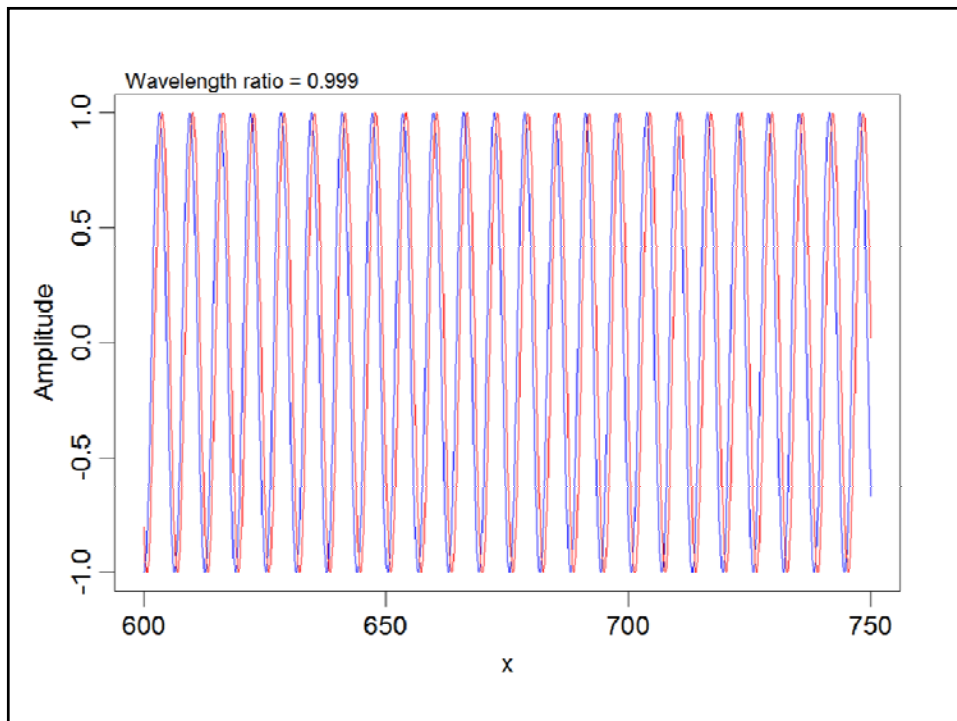
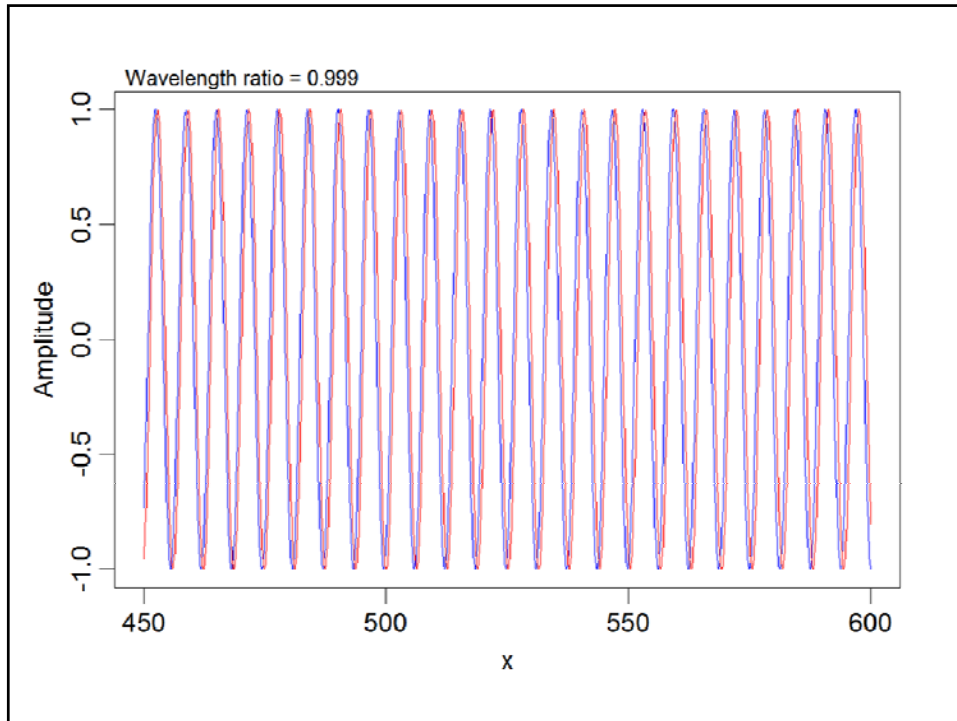
Pathlength delay and spectral resolution

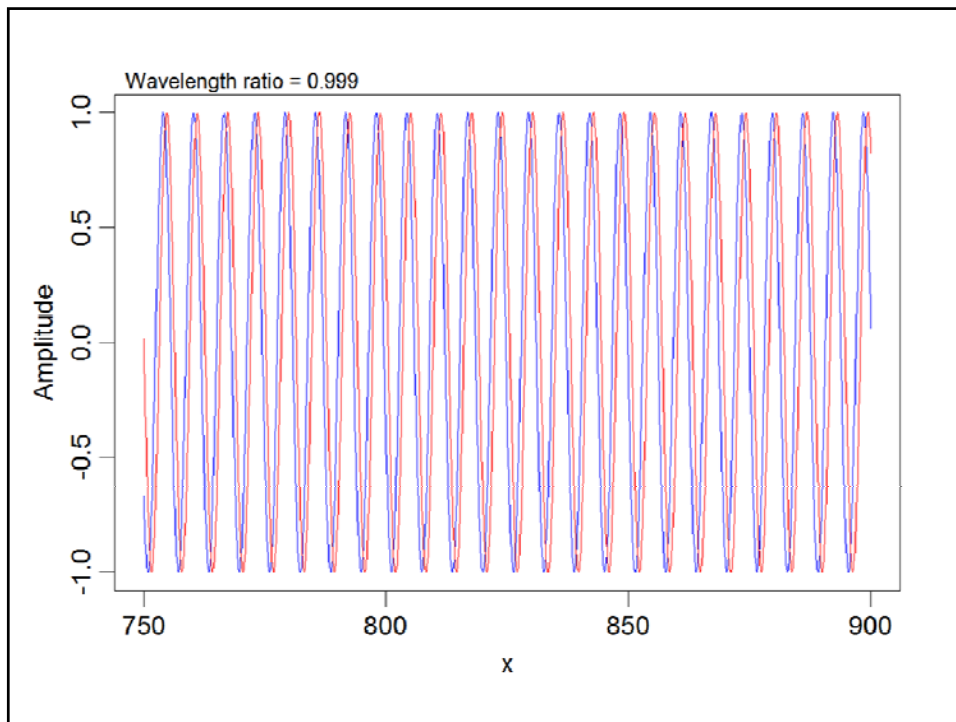
pathlength.r











Diffraction gratings

<http://gratings.newport.com/library/handbook/chapter12.asp#12.5>

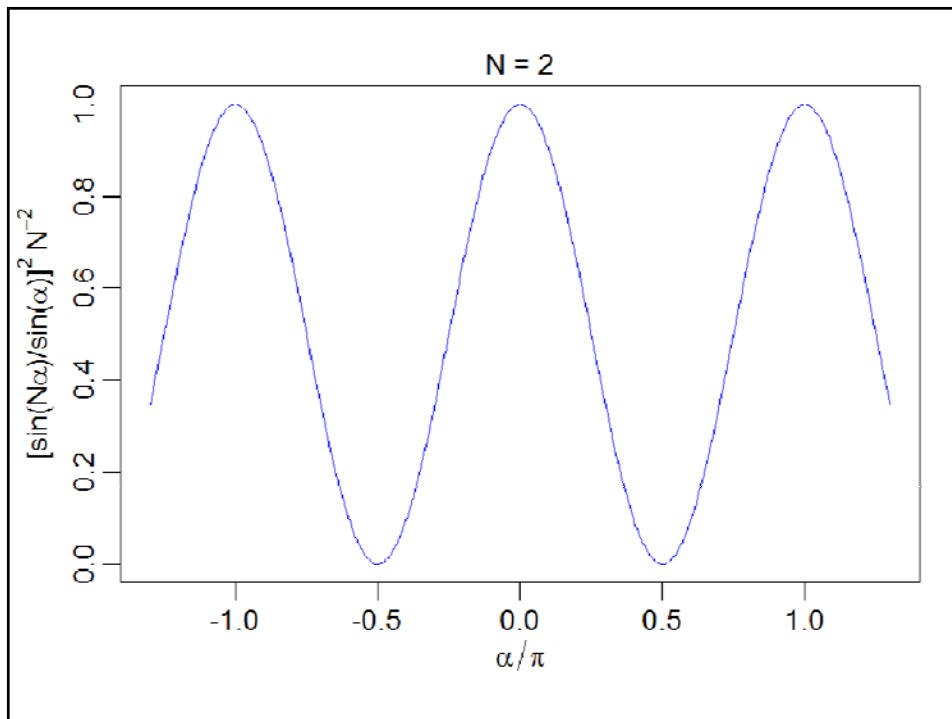
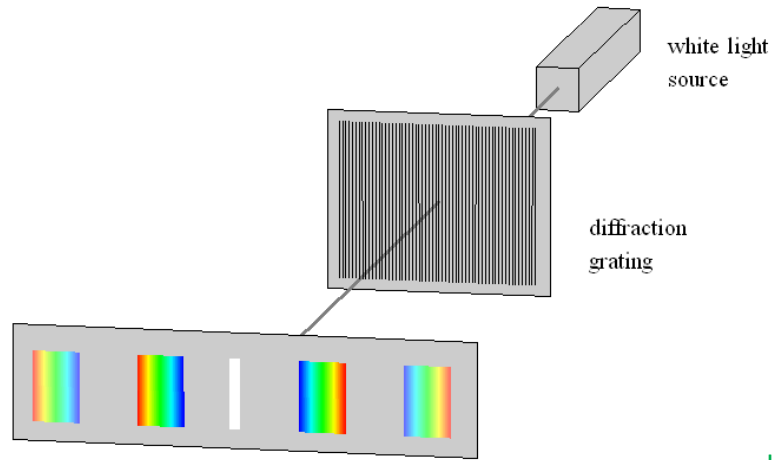
A grating



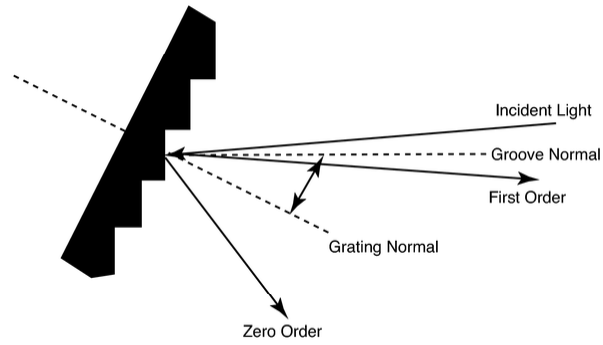
Low-transmission grating



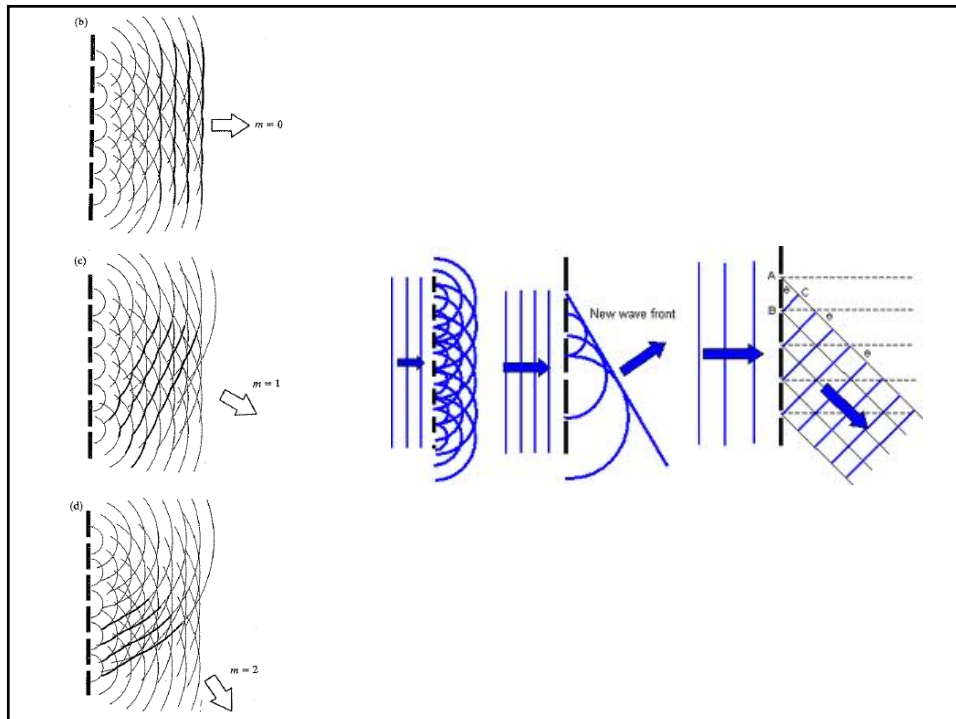
Transmission diffraction grating and different orders

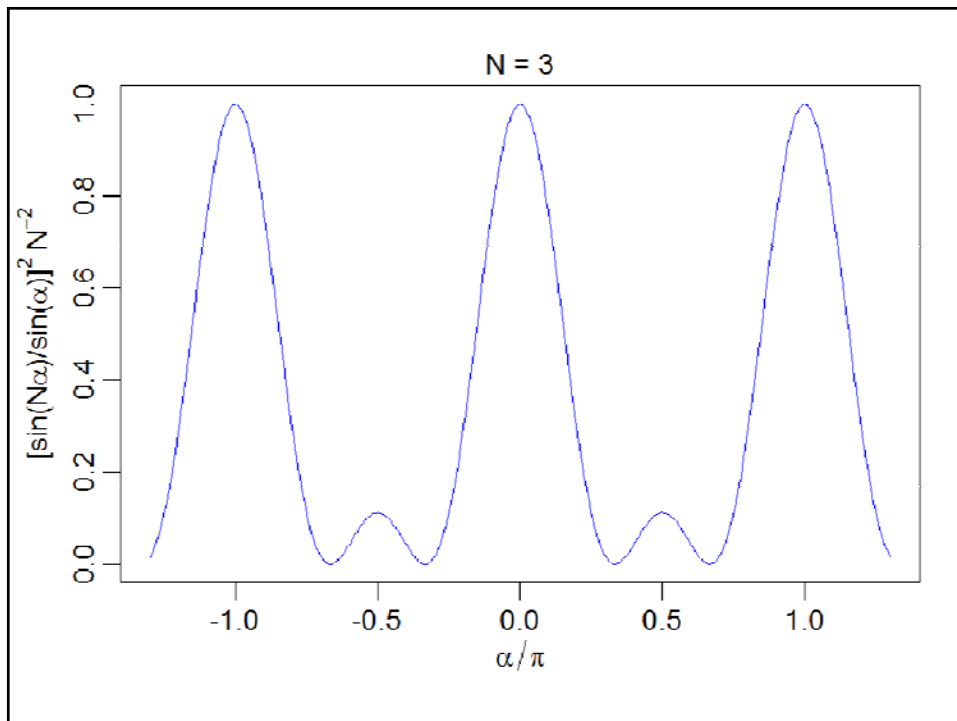
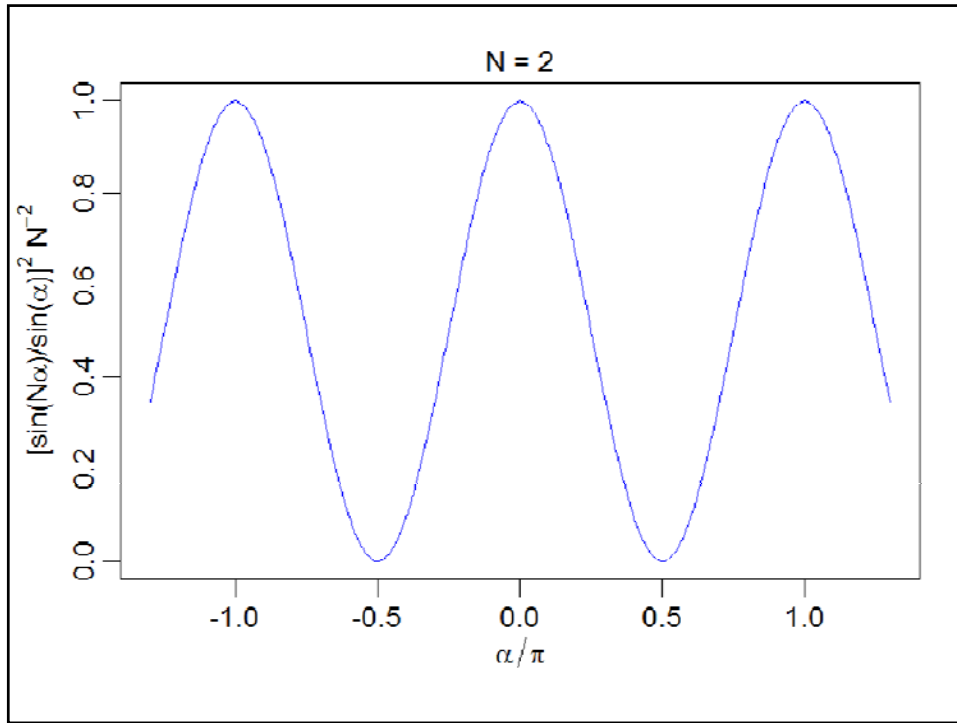


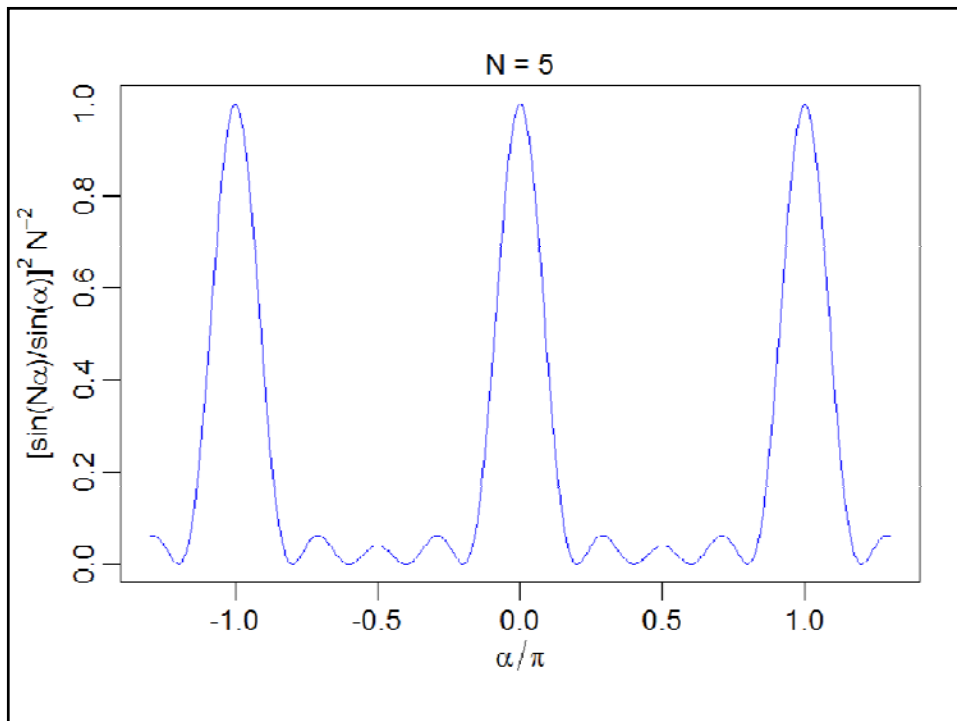
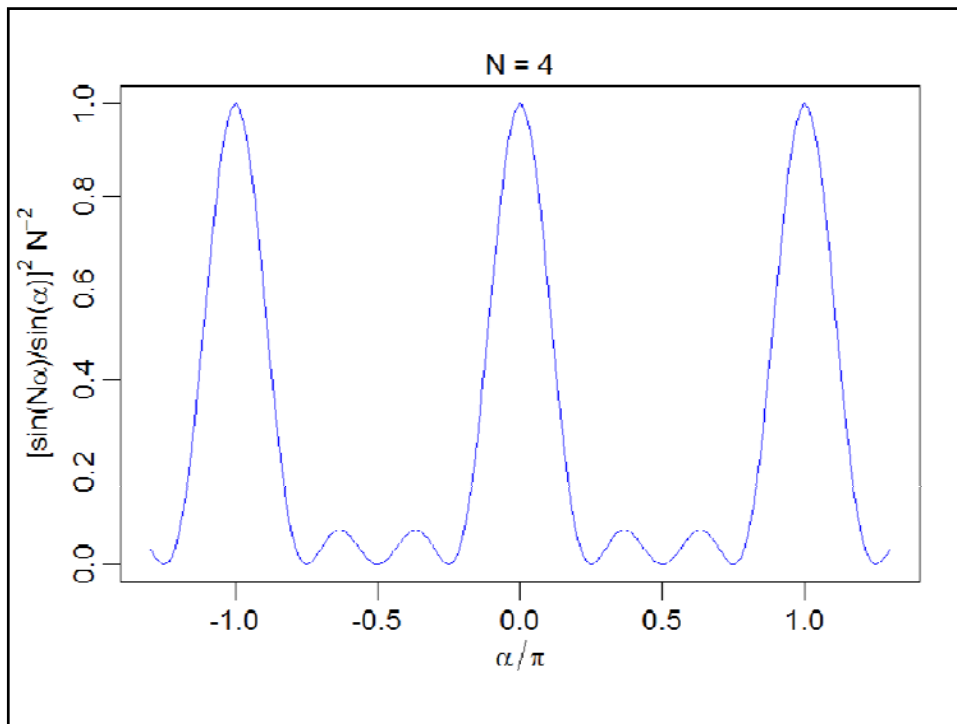
Echelle reflection grating

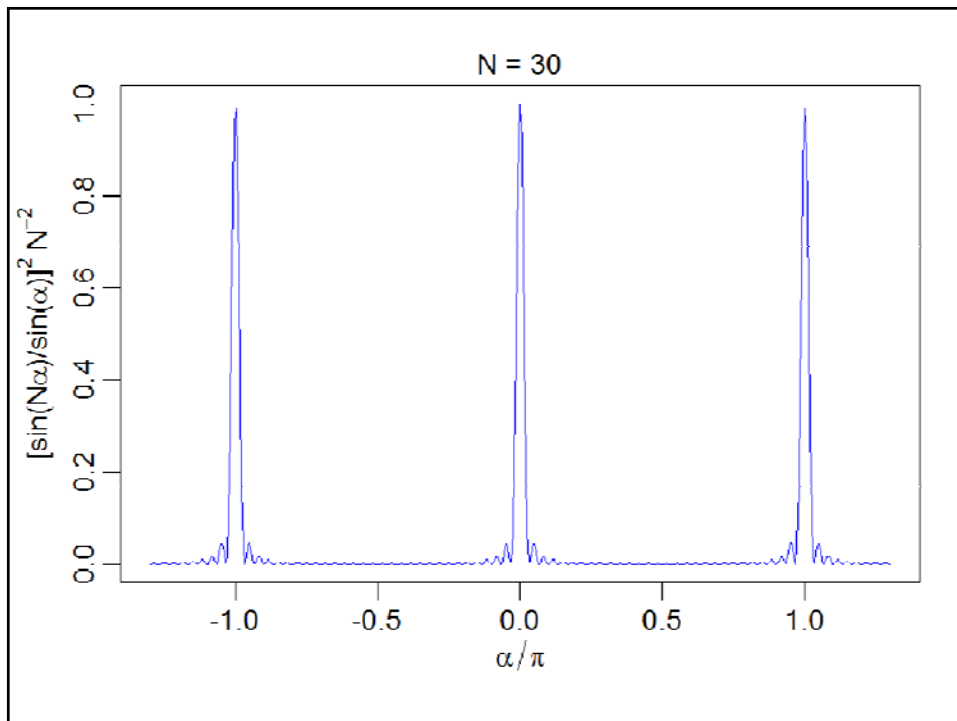
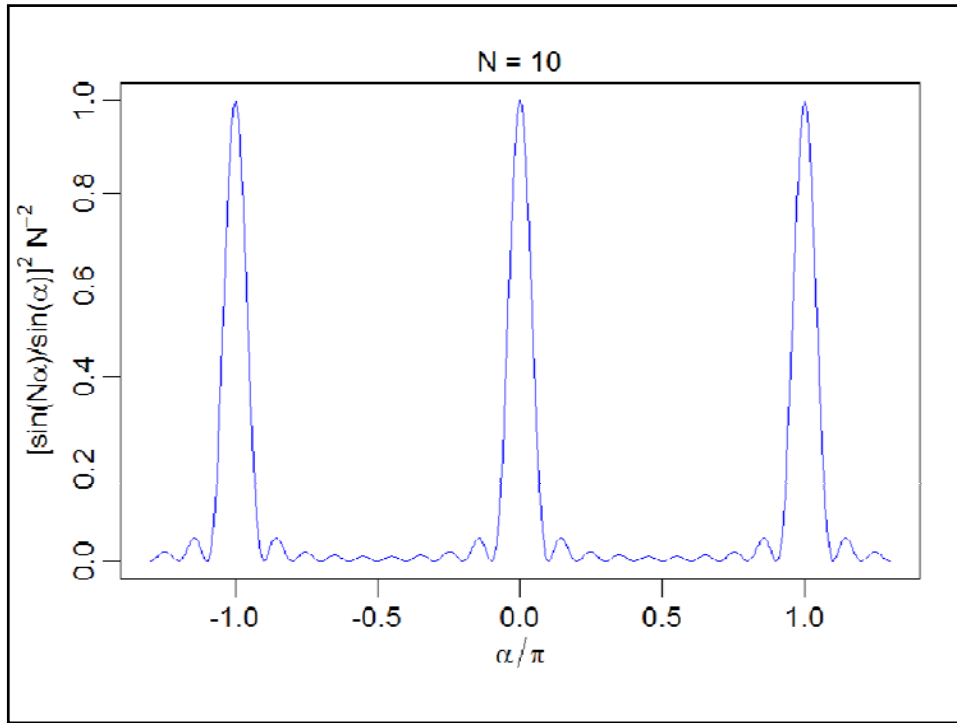


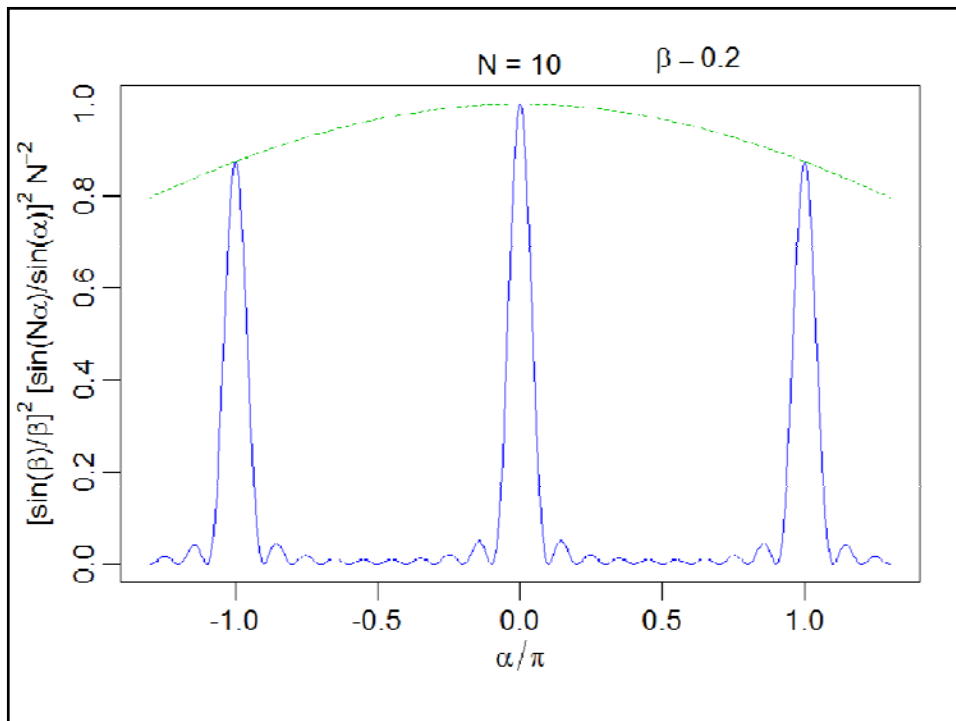
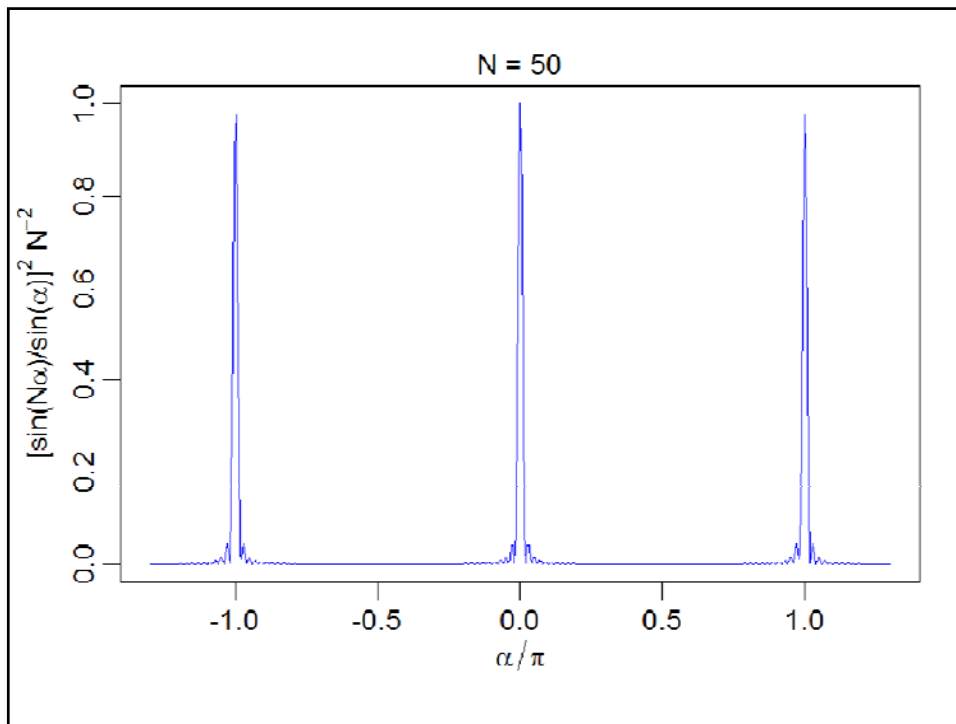
www.newport.com

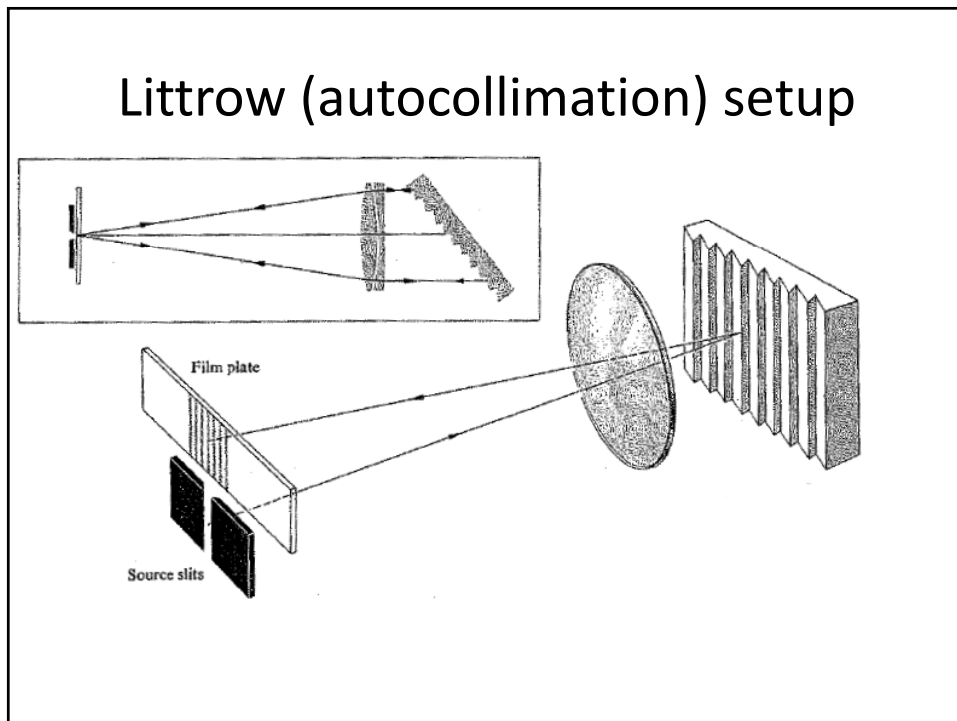
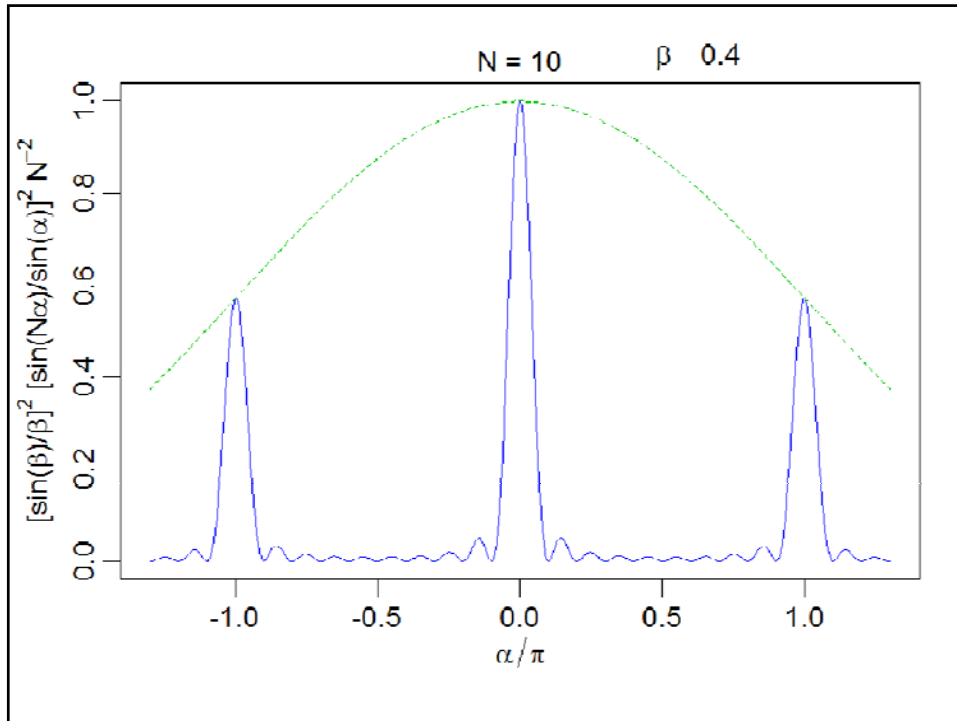




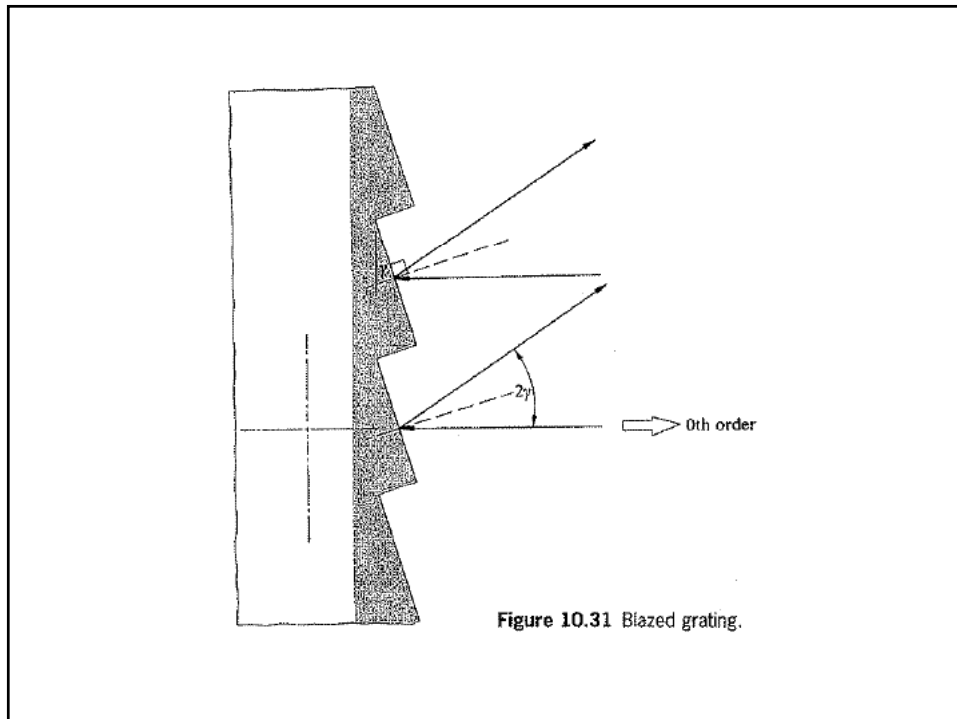
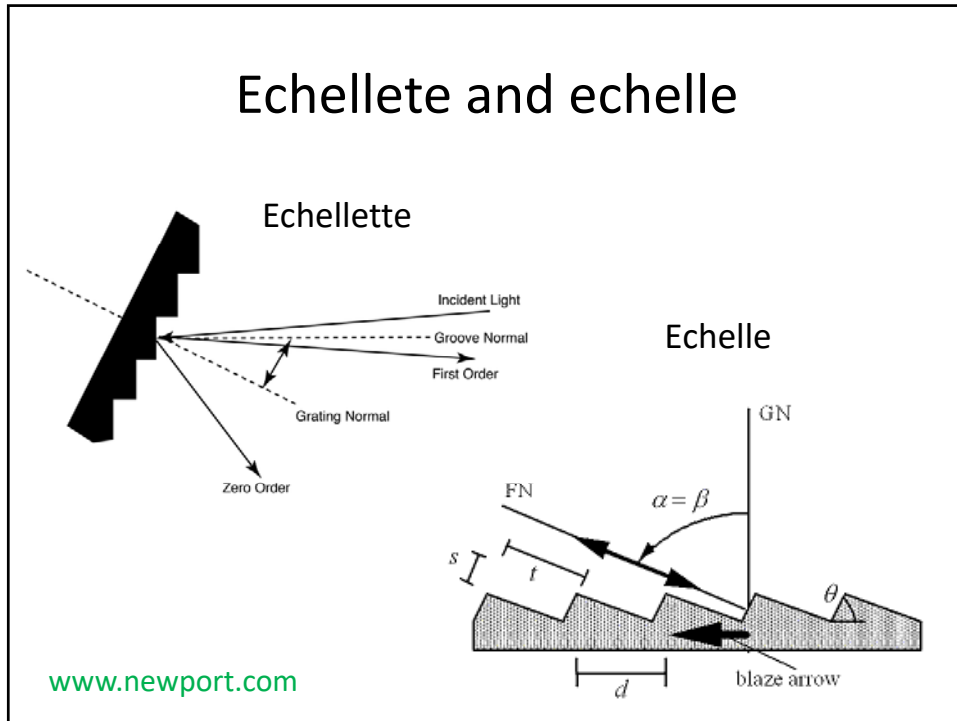




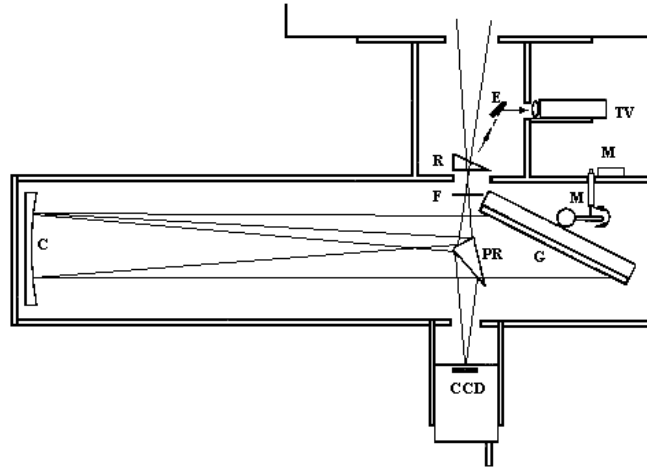




Echelle and echelle

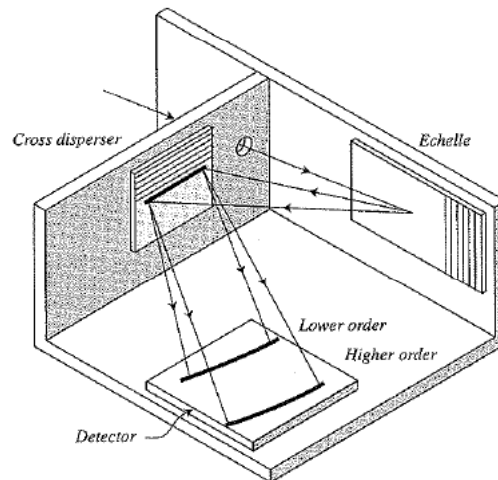


Echelle grating spectrometer

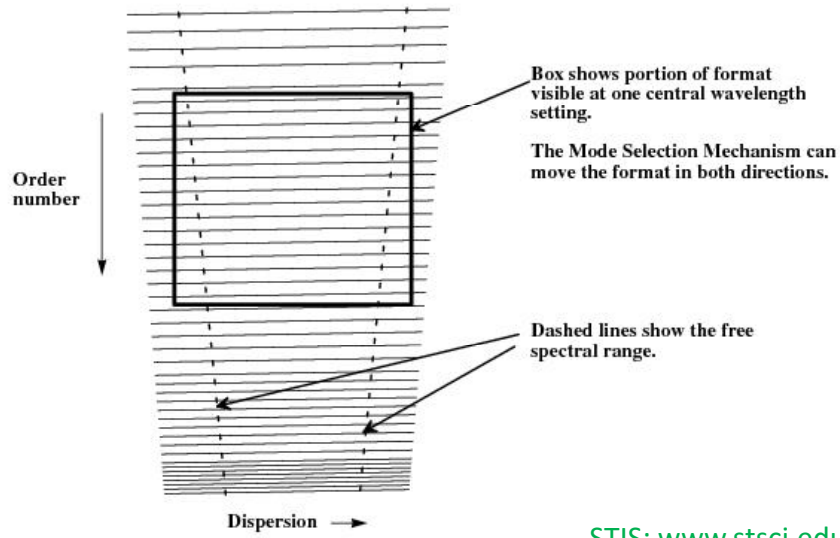


IACUB, www.iac.es

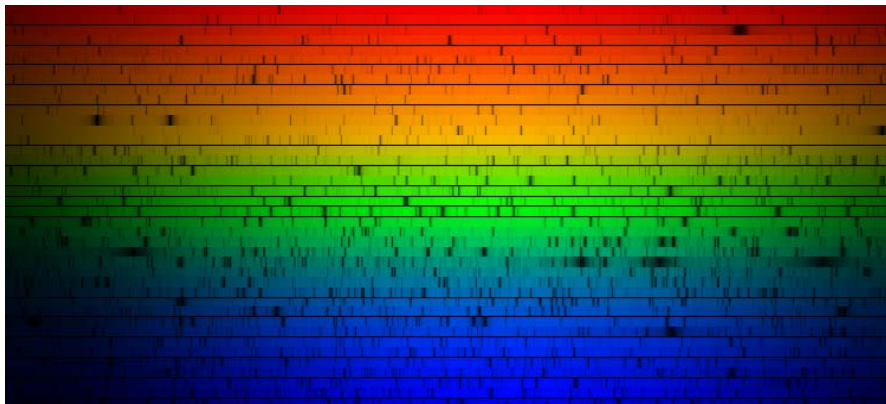
Echelle grating and cross-disperser



Echelle format



Echelle spectrum



CHIRON: www.cito.noao.edu

Grating spectrometer types (no precise definitions, though)

R	Name	m	θ
$\sim 10^3 - 10^4$	Ruled grating	$\sim 1-5$	\sim normal
$\sim 10^3 - 10^4$	Echellettes	$\sim 15-20$	
$\sim 10^5$	Echelles	~ 1000	
$\sim 10^6$	Echelon	$\sim 20,000$	\sim edge-on