



Moving Optics

- Velocity selector
- Disk Chopper
- Fermi Chopper

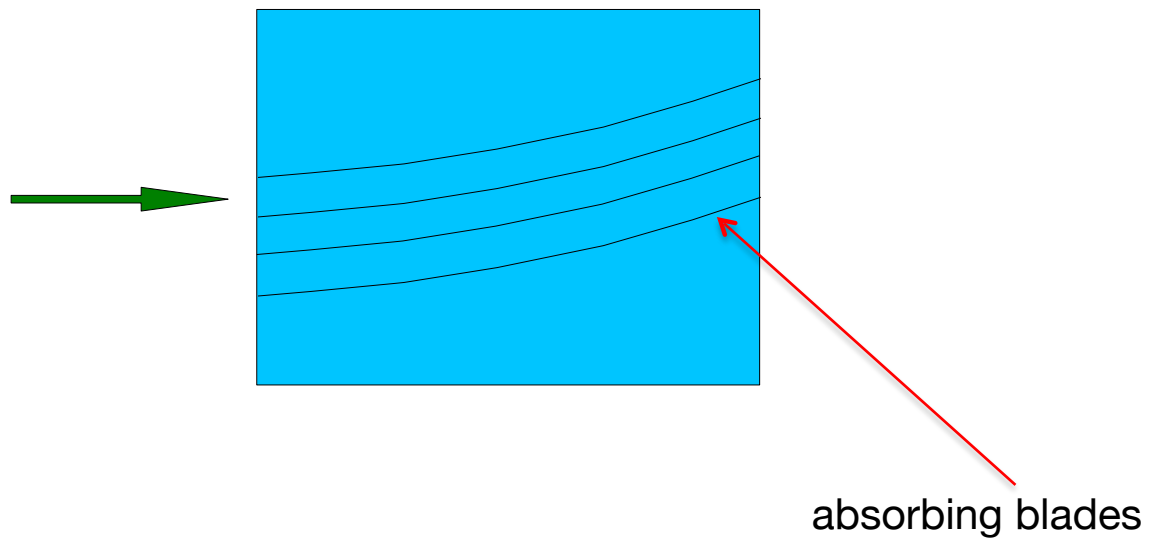


Velocity Selectors

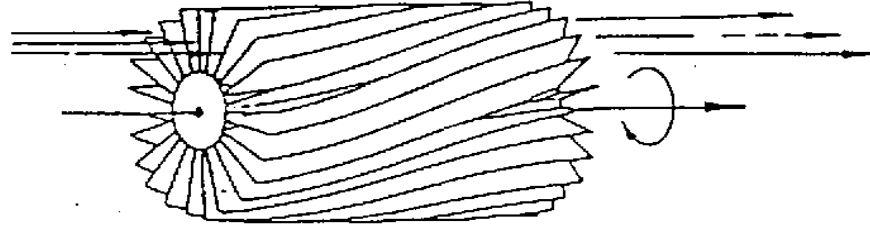
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Select the neutron energy you want

VELOCITY SELECTORS

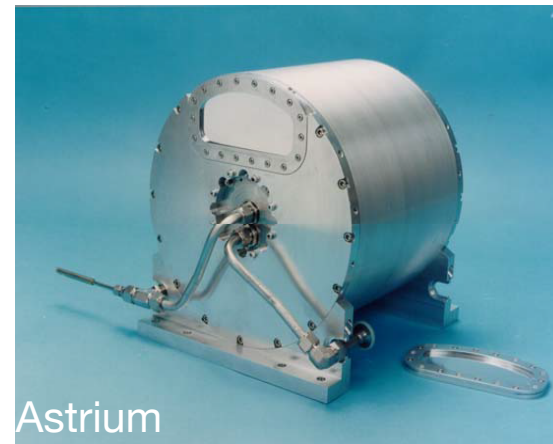
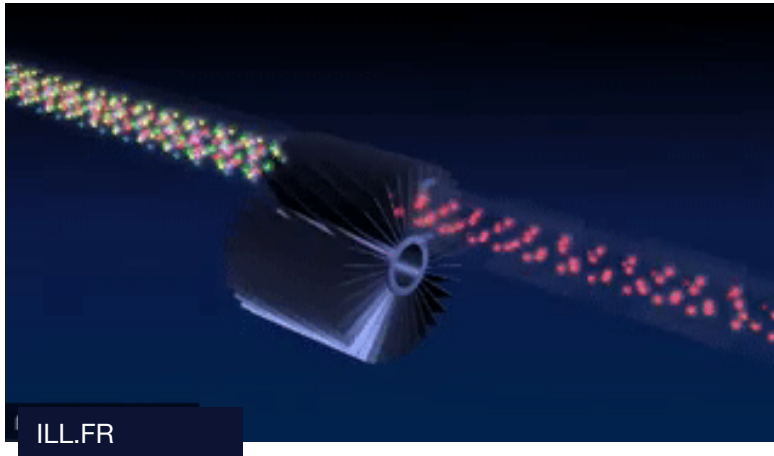


VELOCITY SELECTORS

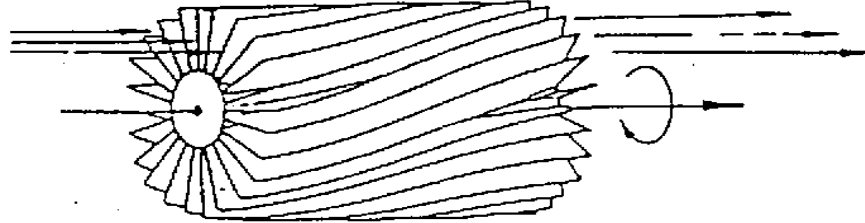


VELOCITY SELECTORS

‘broad’ monochromatization $\delta\lambda/\lambda \approx 10\%$



VELOCITY SELECTORS



INPUT PARAMETER

xwidth	[m]	width entry aperture
yheight	[m]	height entry aperture
zdepth	[m]	housing! length
length	[m]	blade length
d	[m]	blade thickness
alpha	[deg]	twisting angle
radius	[m]	distance rotation axis –
aperture centre		

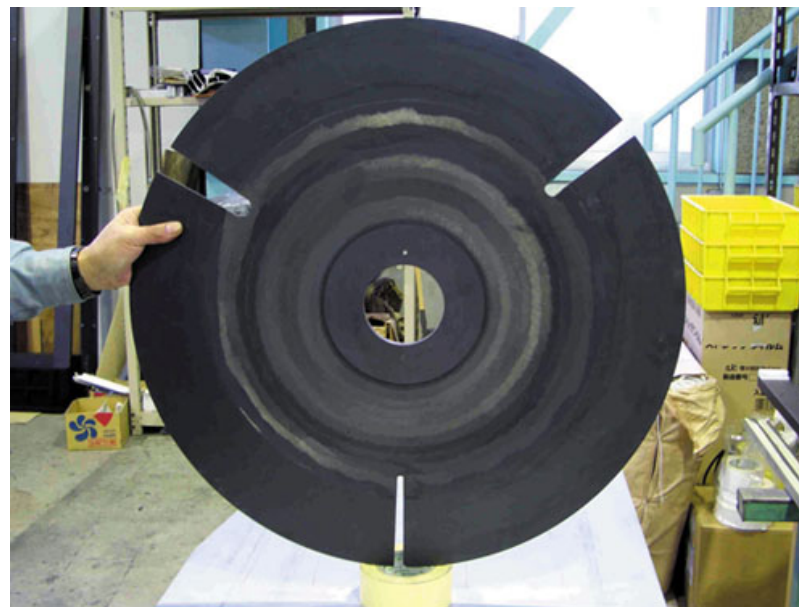
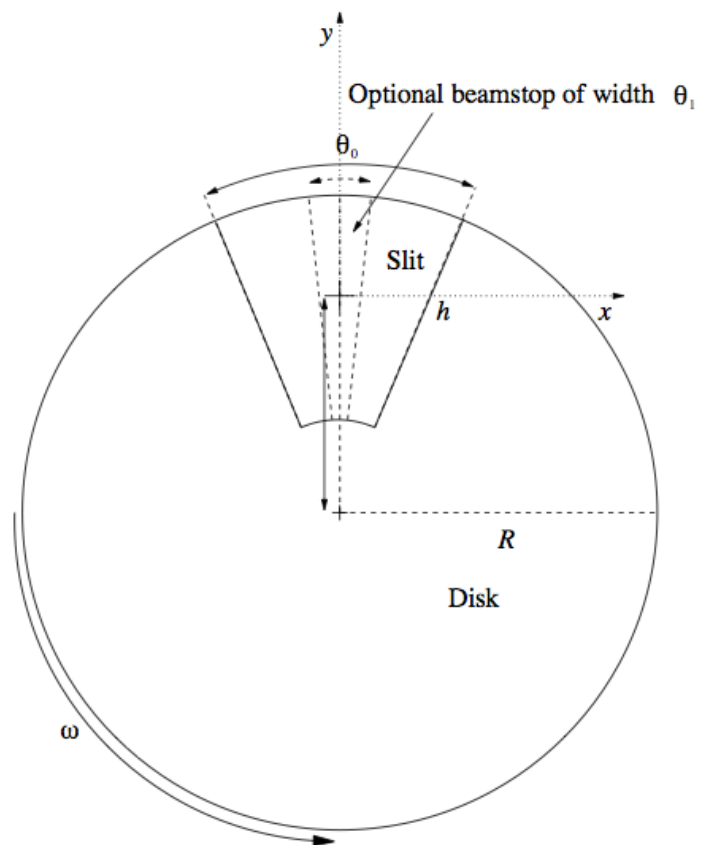
DISK CHOPPER



Define time structure of the beam

Time Of Flight (TOF) measurements

DISK CHOPPER

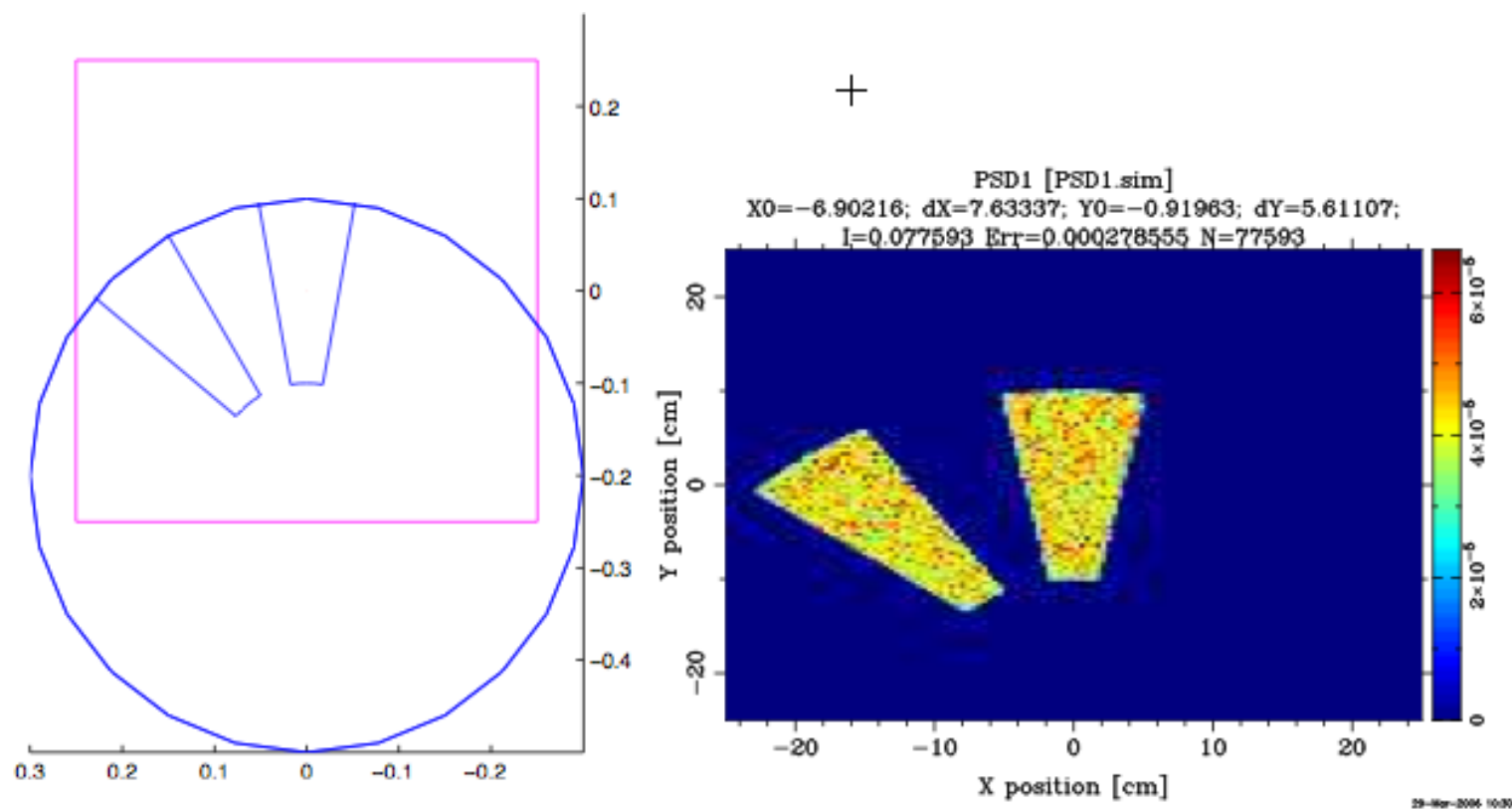


DISK CHOPPER

INPUT PARAMETER

nu	[Hz]	frequency
yheight [m]		slit height (if 0, yheight = radius)
radius	[m]	disk radius
theta_0 [deg]		angular width of slits
xwidth	[m]	horizontal slit width opening,
beam center		
jitter	[s]	jitter in time phase
delay	[s]	time delay
phase	[deg]	angular delay, overrides time
lsfirst	[0/1]	several choppers, defines first

DISK CHOPPER_S



FERMI CHOPPER

