



## Moving Optics

- Velocity selector
- Disk Chopper
- Fermi Chopper

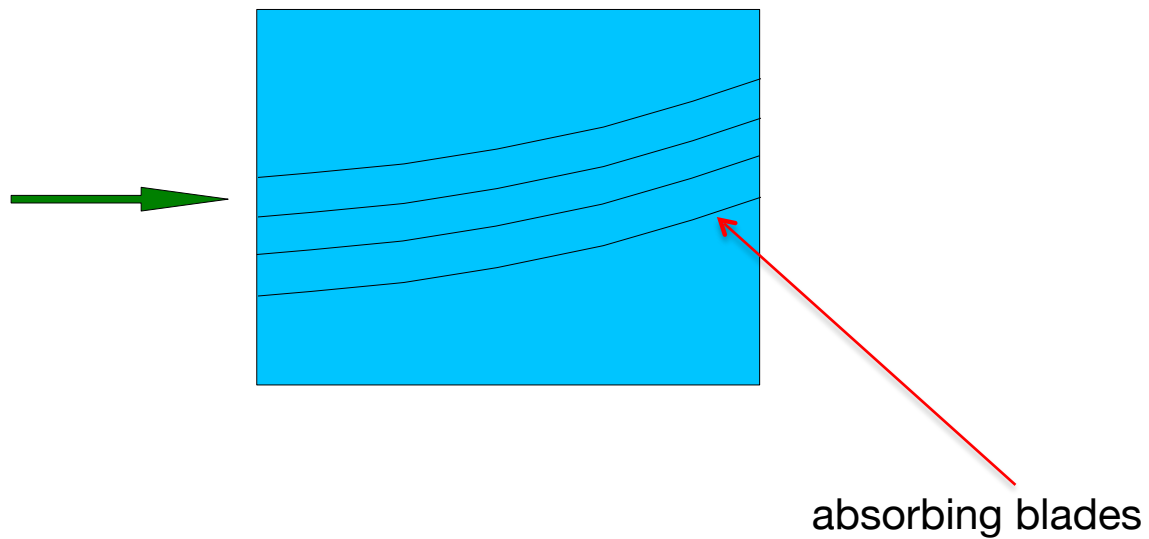


## Velocity Selectors

-

Select the neutron energy you want

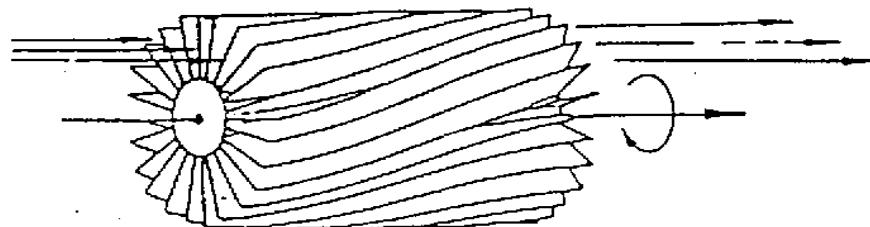
# VELOCITY SELECTORS



# VELOCITY SELECTORS



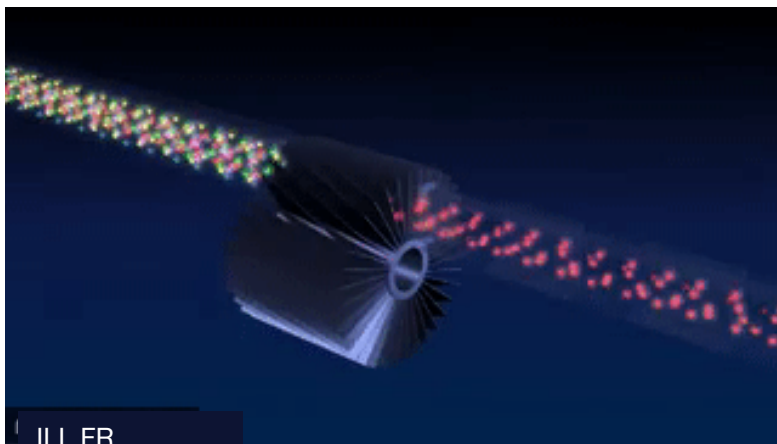
2021 Virtual  
ISIS  
McStas  
School



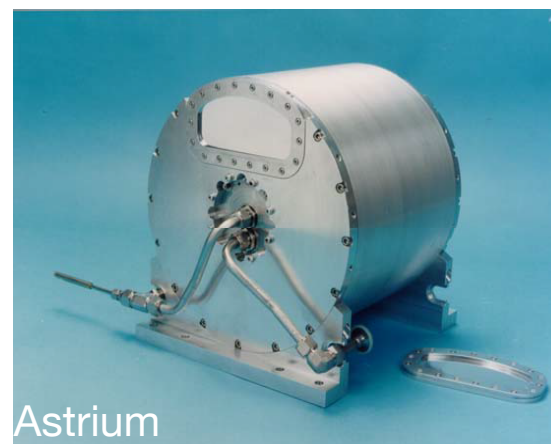
# VELOCITY SELECTORS



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



ILL.FR

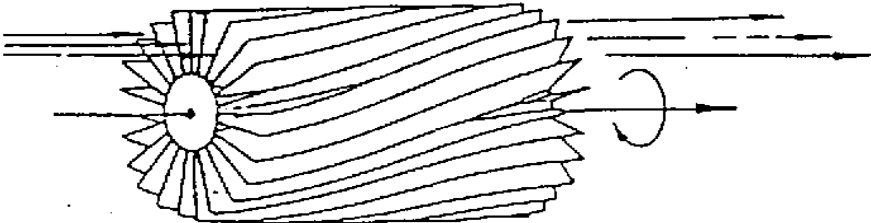


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# VELOCITY SELECTORS

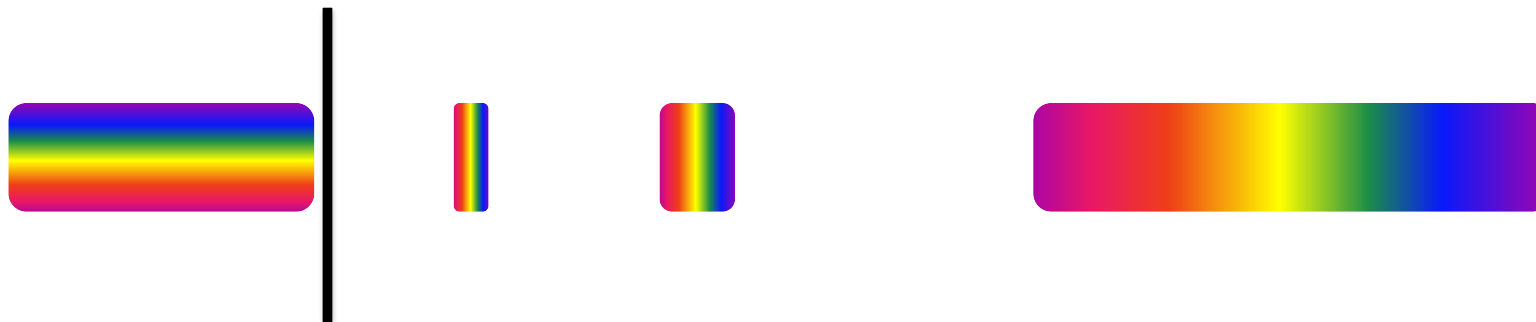


## INPUT PARAMETER

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

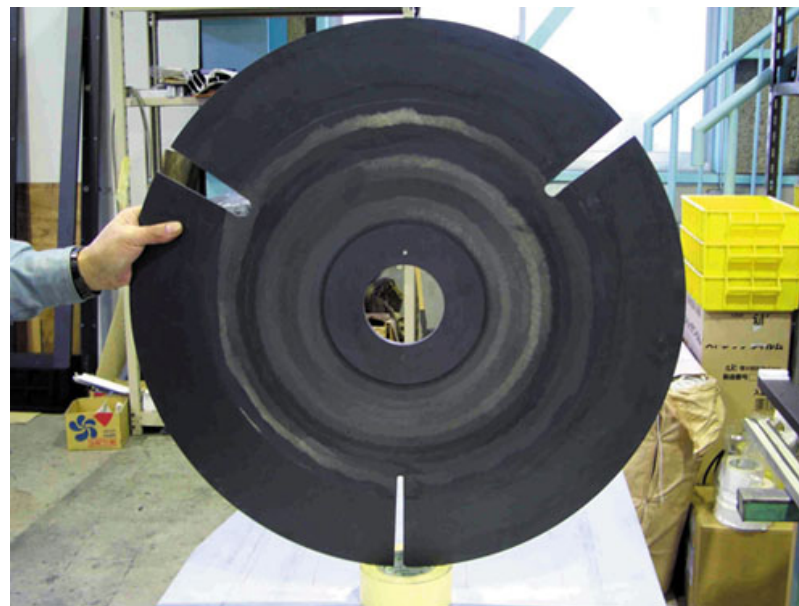
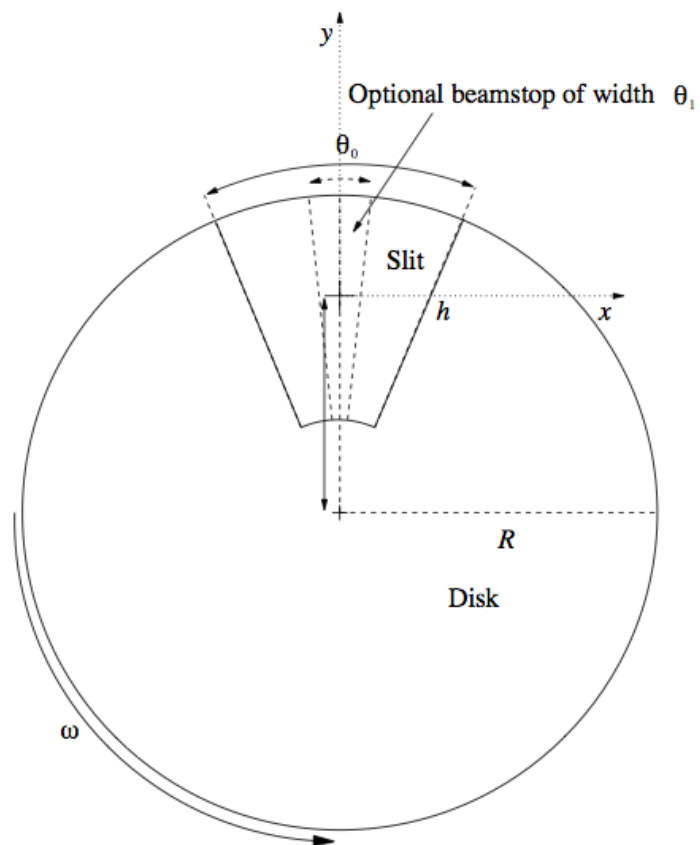


Define time structure of the beam

Time Of Flight (TOF) measurements

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## DISK CHOPPER



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## 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
Isfirst	[0/1]	several choppers, defines first

## DISK CHOPPER\_S

