

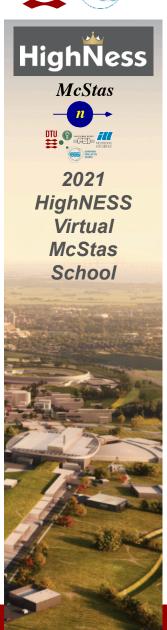


Moving Optics

- Velocity selector
- Disk Chopper
- Fermi Chopper







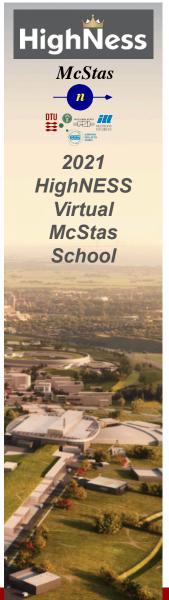
Velocity Selectors

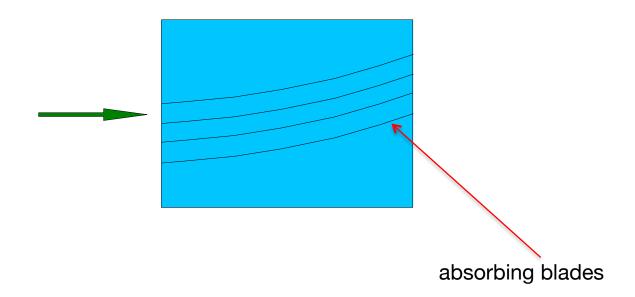
_

Select the neutron energy you want



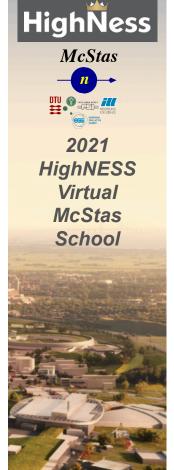


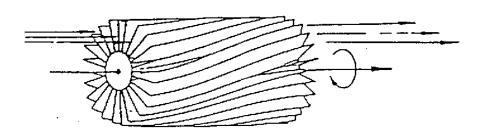










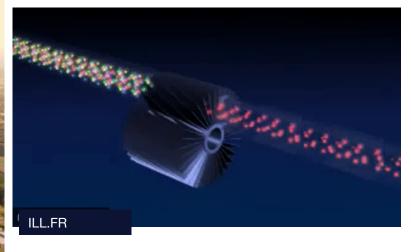








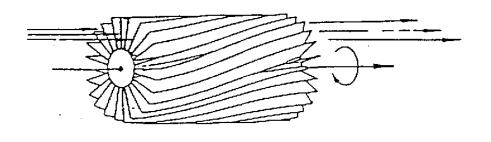
'broad' monochromatization $\delta \lambda / \lambda \approx 10 \%$













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]

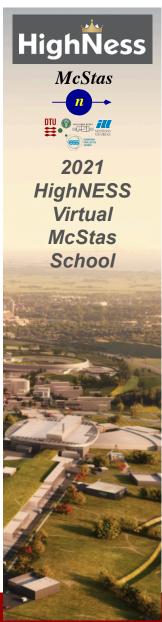
distance rotation axis -

aperture centre









DISK CHOPPER

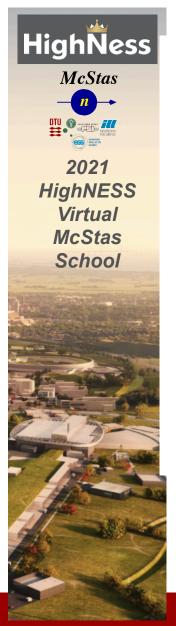


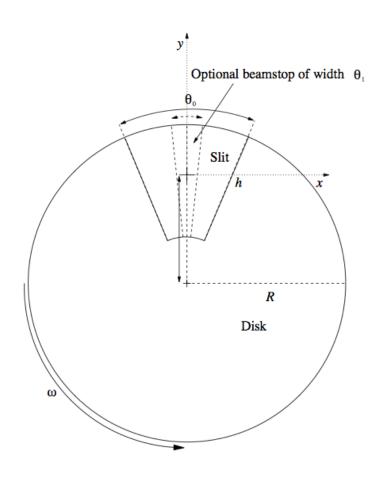
Define time structure of the beam

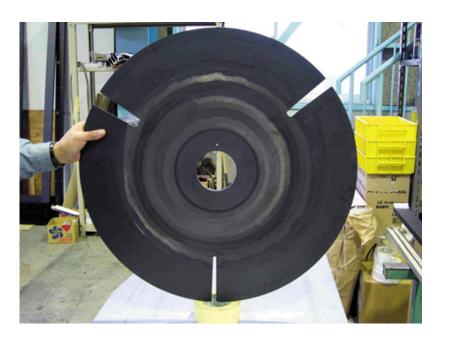
Time Of Flight (TOF) measurements





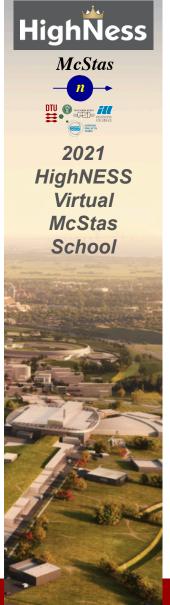












INPUT PARAMETER

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

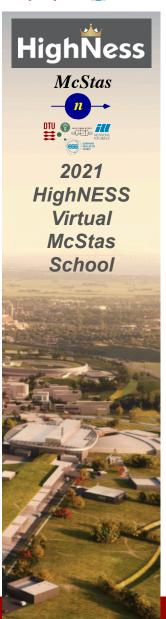
phase [deg] angular delay, overrides time

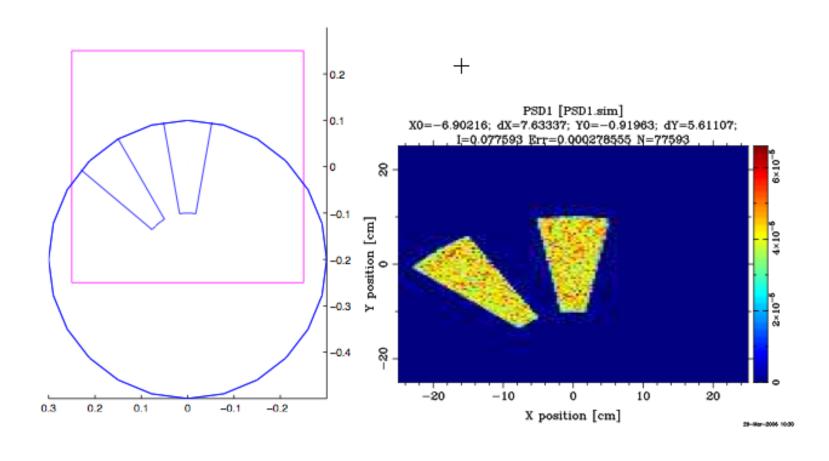
Isfirst [0/1] several choppers, defines first



DISK CHOPPER_S







2021 HighNESS McStas school



EUROPEAN SPALLATION SOURCE FERMI CHOPPER



