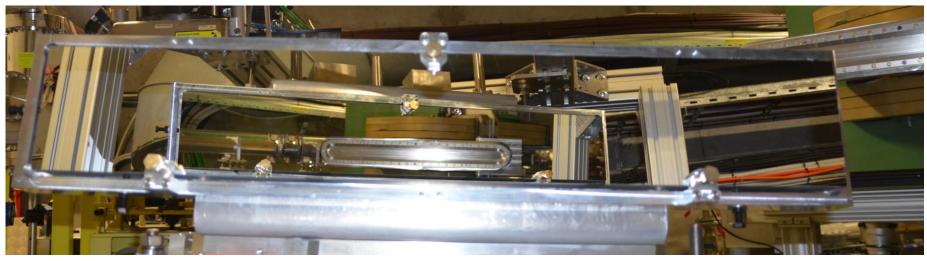
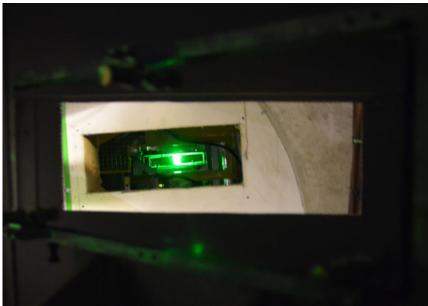
# Alignment of AWAKE spectrometer optical line

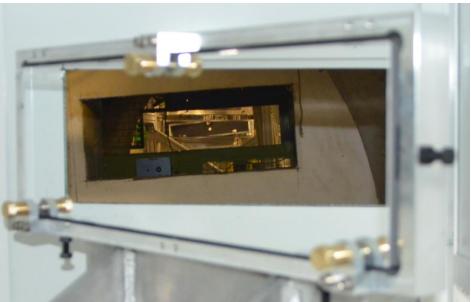
Ishkhan Gorgisyan S. Mazzoni, F. Keeble



#### Installation and alignment

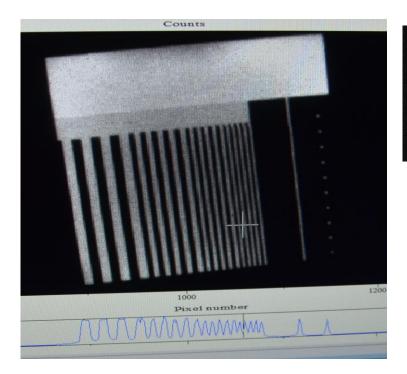




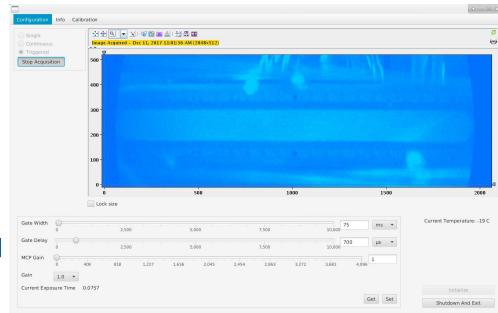




#### Installation and alignment



All and a second second

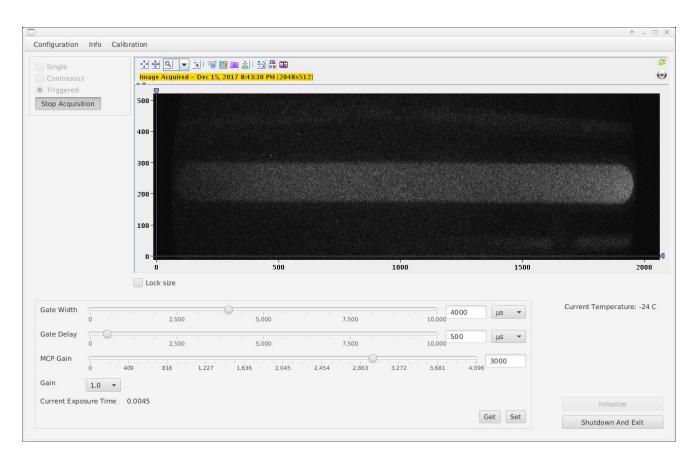


Target resolution of 1.5 mm achieved

#### Tilt of the image was fixed



### First background tests during December run

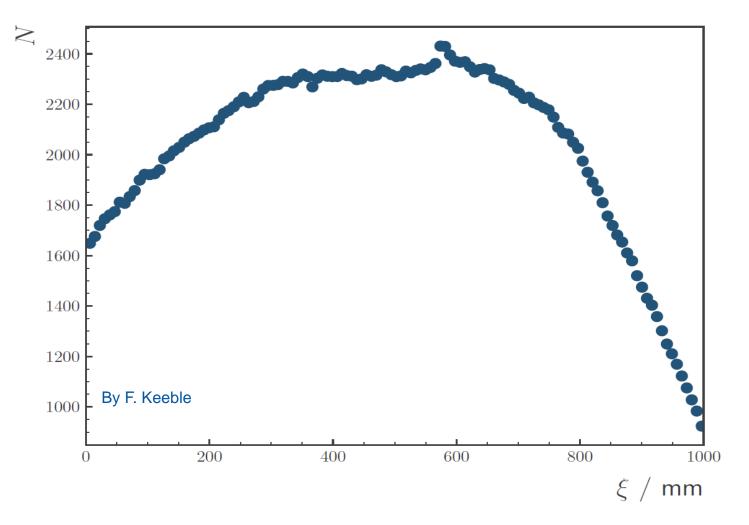


#### First background measurements

#### Reliable performance during the run



### Vignetting



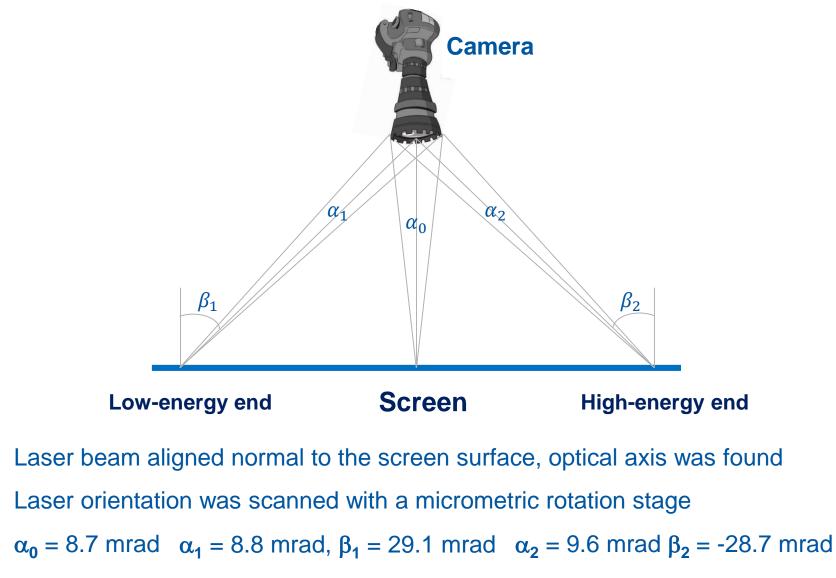
Large and asymmetric vignettting was observed after the first alignment



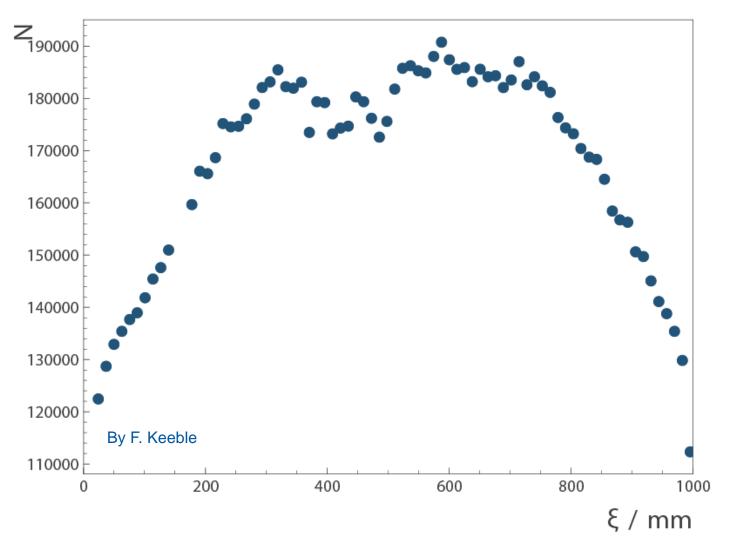
### Realignment

ERN

AW<del>AKE</del>



### Realignment

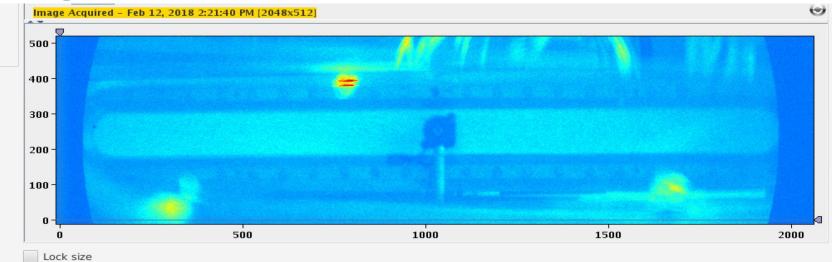


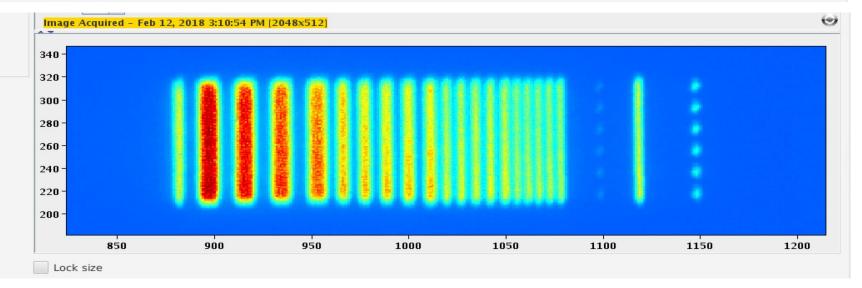
#### First vignetting analysis shows a more symmetric profile



CERN

### Realignment





#### Calibration mask imaged with high resolution

AWAKE

CERN

3/16/2018

I. Gorgisyan

## Thank you for attention

