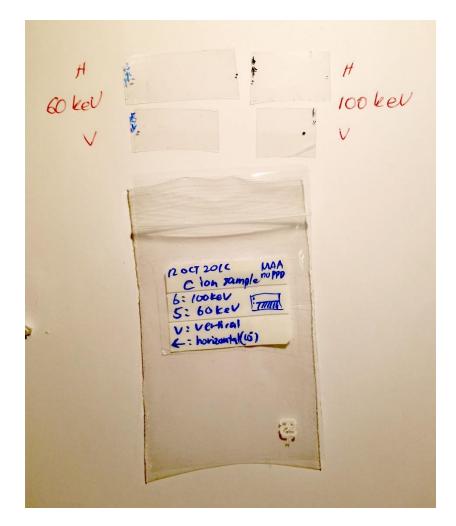
# **Efficiency studies**

Andrey Alexandrov

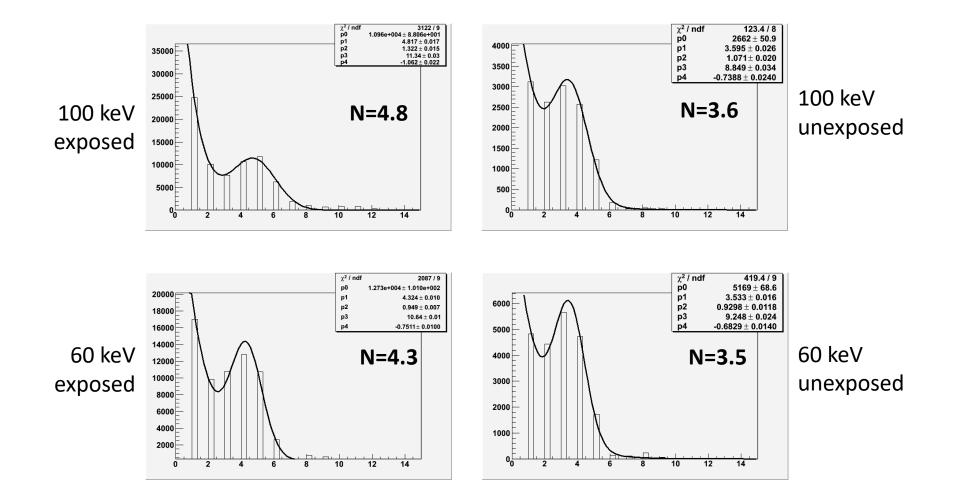
Valerio Gentile

## Carbon Ion Samples

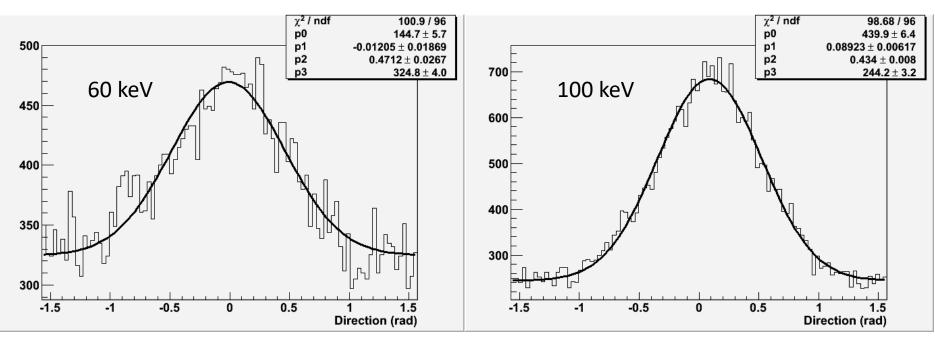


- 60 and 100 keV
- Horizontal exposure

### Effective Grain Length Check

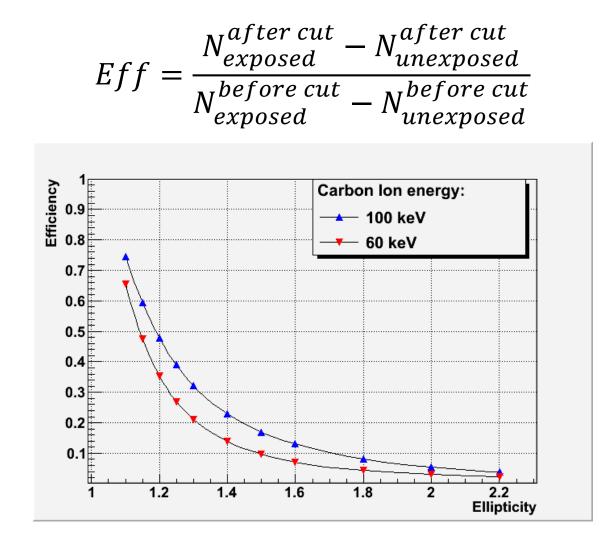


### Angular resolution



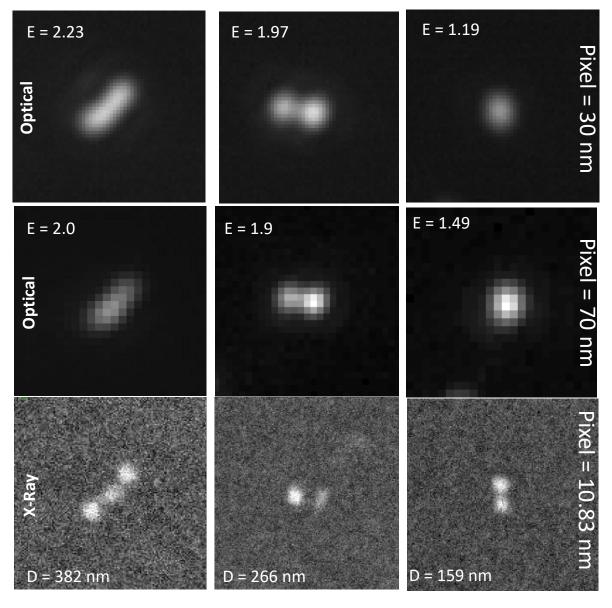
Angular resolution = 471 mrad (no ellipticity cut applied) Angular resolution = 434 mrad (no ellipticity cut applied)

#### Ellipticity cut efficiency

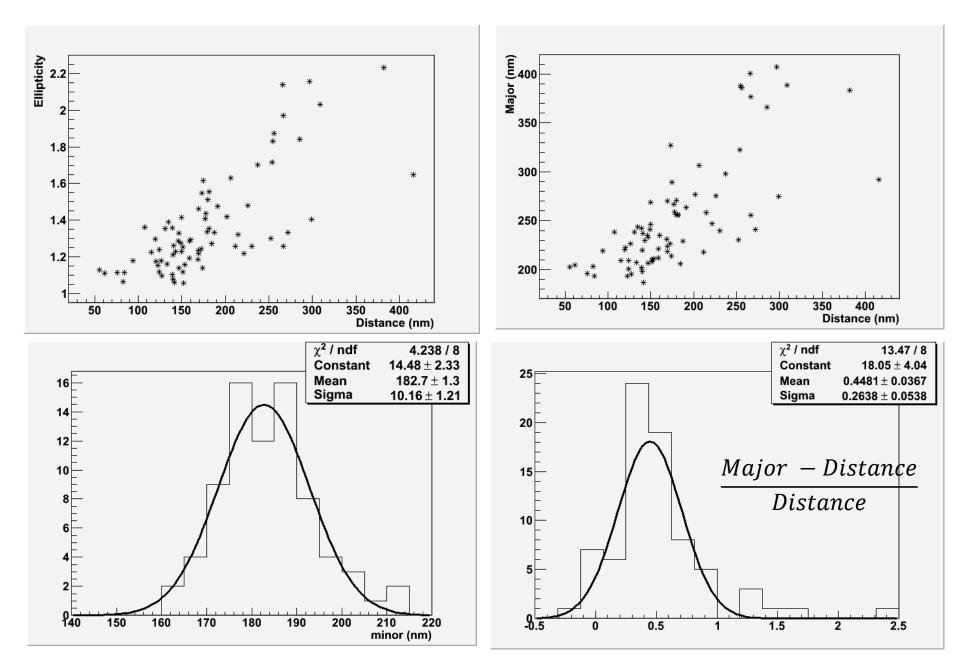


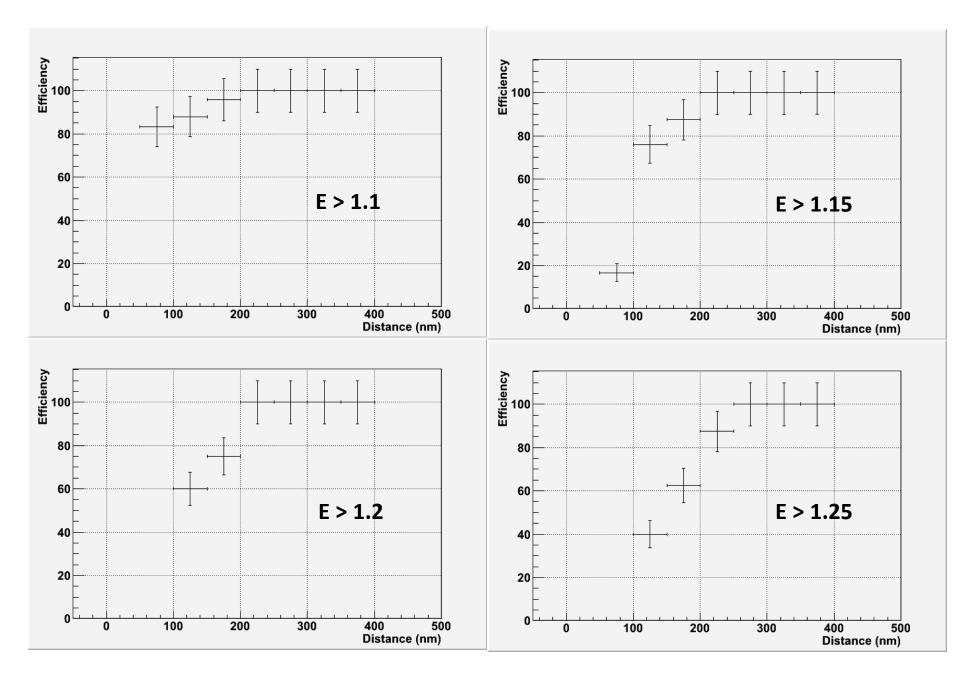
Efficiency cross-check with X-Ray microscope

## Shape Analysis

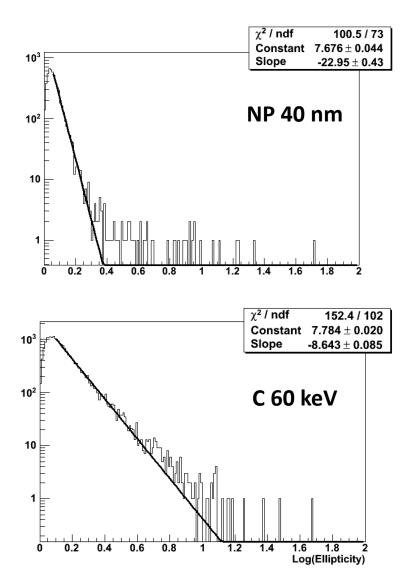


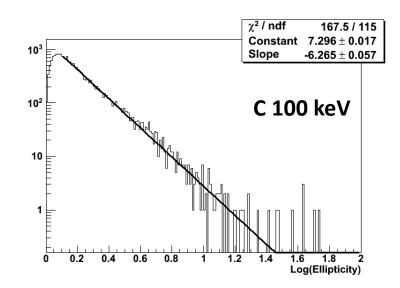
- 121 views scanned with X-Ray mic.
- 22 views analysed with optical mic.
- 2 views are found damaged
- 77 tracks selected
- 2D Gaussian fit was applied to every selected cluster





## Fit of ellipticity distributions





#### Acceptance

