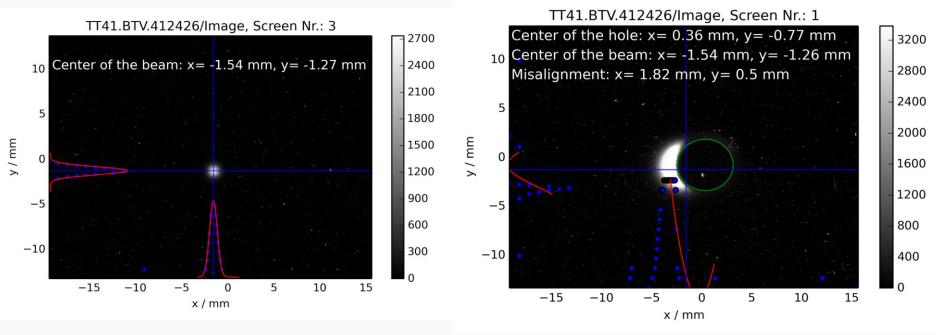
Commissioning results of the SMI-BTVs

M. Turner, J. Schmidt, B. Biskup, E. Gschwendtner,

BTV 412426

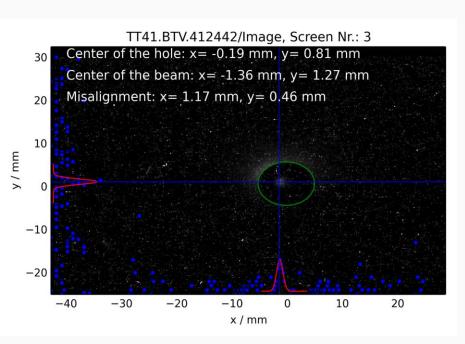
SiAg

Chromox with a hole

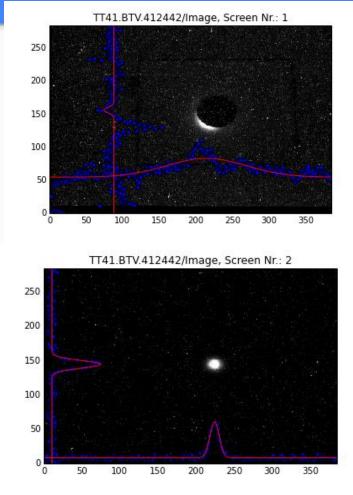


Hole size on the first BTV: r = 3 mm

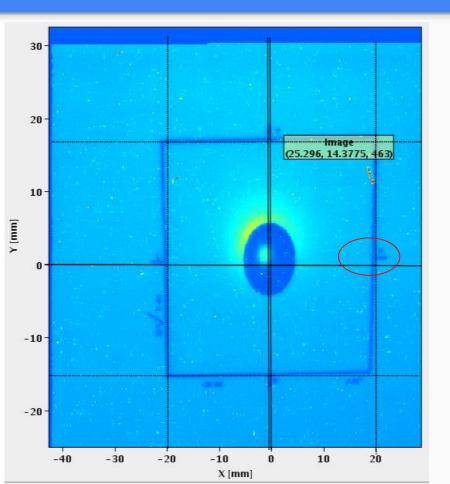
BTV 412442

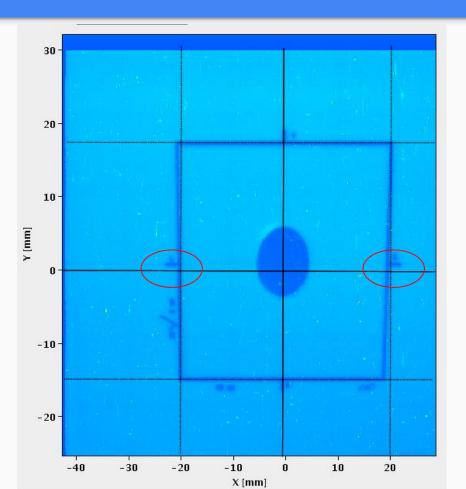


Hole size on the second BTV: r = 5 mm

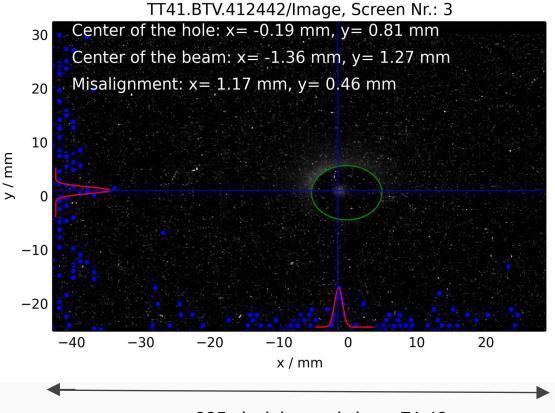


BTV screens of 412442 with respect to the camera

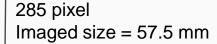




Imaging of 1 pixel



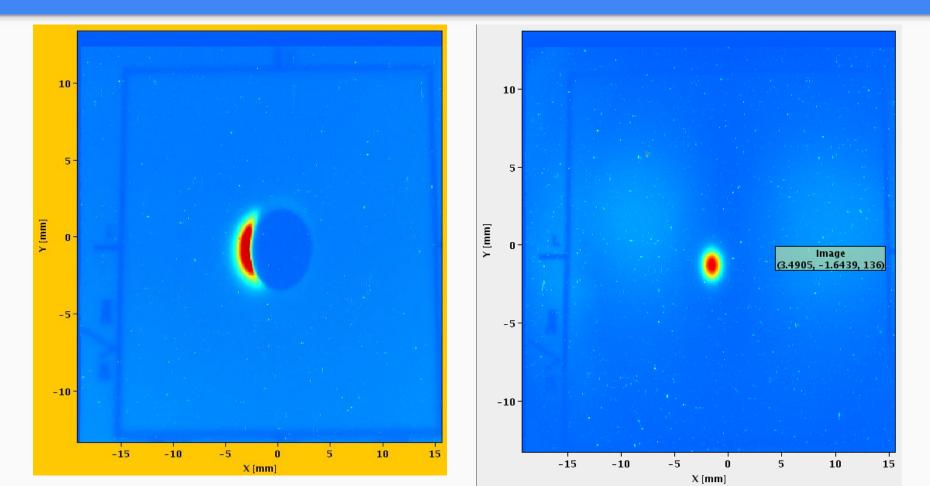
385 pixel, imaged size = 71.42 mm



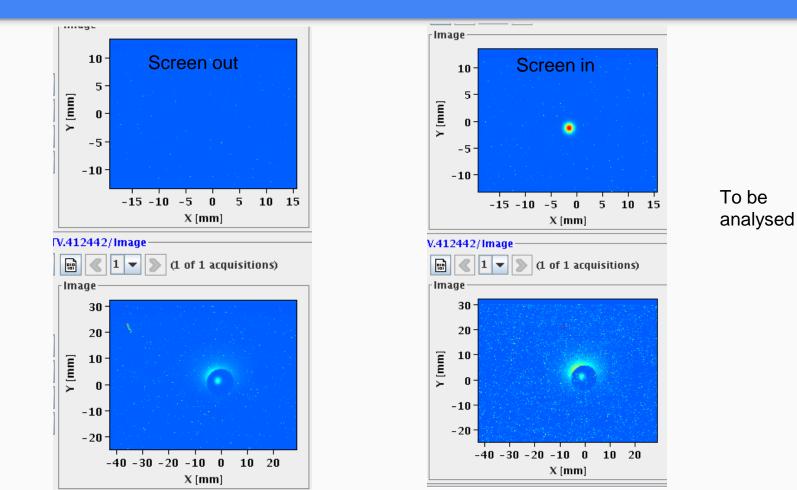
For BTV 412442: Imaged size per horizontal pixel: 0.185 mm. Imaged size per vertical pixel: 0.201 mm.

For BTV 412442: Imaged size per horizontal pixel: 0.090 mm. Imaged size per vertical pixel: 0.094 mm.

BTV screens of 412426 with respect to the camera



Does the first imaging screen reduce the imaging quality of the second one?



- All BTV's are functional.
- Beam screens performed as expected.
- I think we should plan for realigning the screens after the final proton beam steering (after the installation of the iris).
- Analysis to be done
 - Calibration of OTR and Scintillation light yield.
 - Determine the minimum proton beam density to give a measurable light response.