Progress Of The Ess Target Proton Beam Imaging System

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Introduction

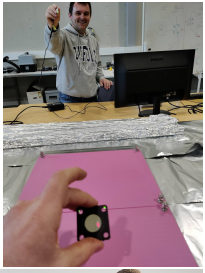
Imaging systems

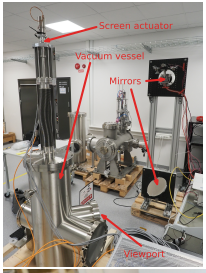
- Beam footprint made visible by scintillating material
- Mirrors transport light to camera away from radiation
- Images are processed and presented to operators

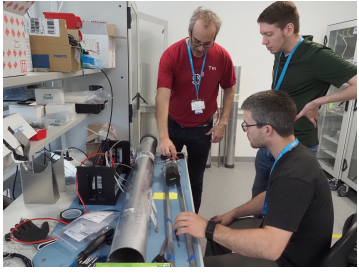
University of Oslo in-kind contribution

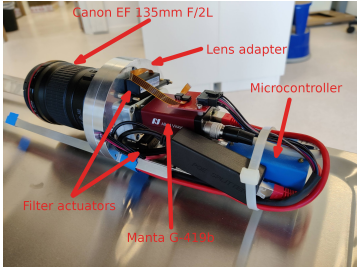
- Two target imaging systems: Target Wheel and Proton Beam Window
- Two images for tuning dump line

Tuning dump imaging systems, delivered June 2022

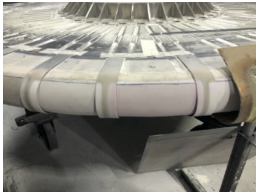


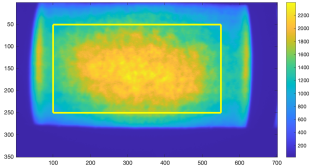






Luminescent coating of the Target Wheel, March 2022





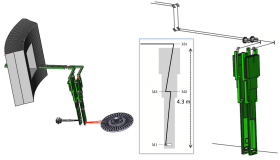


Image processing and simulations