

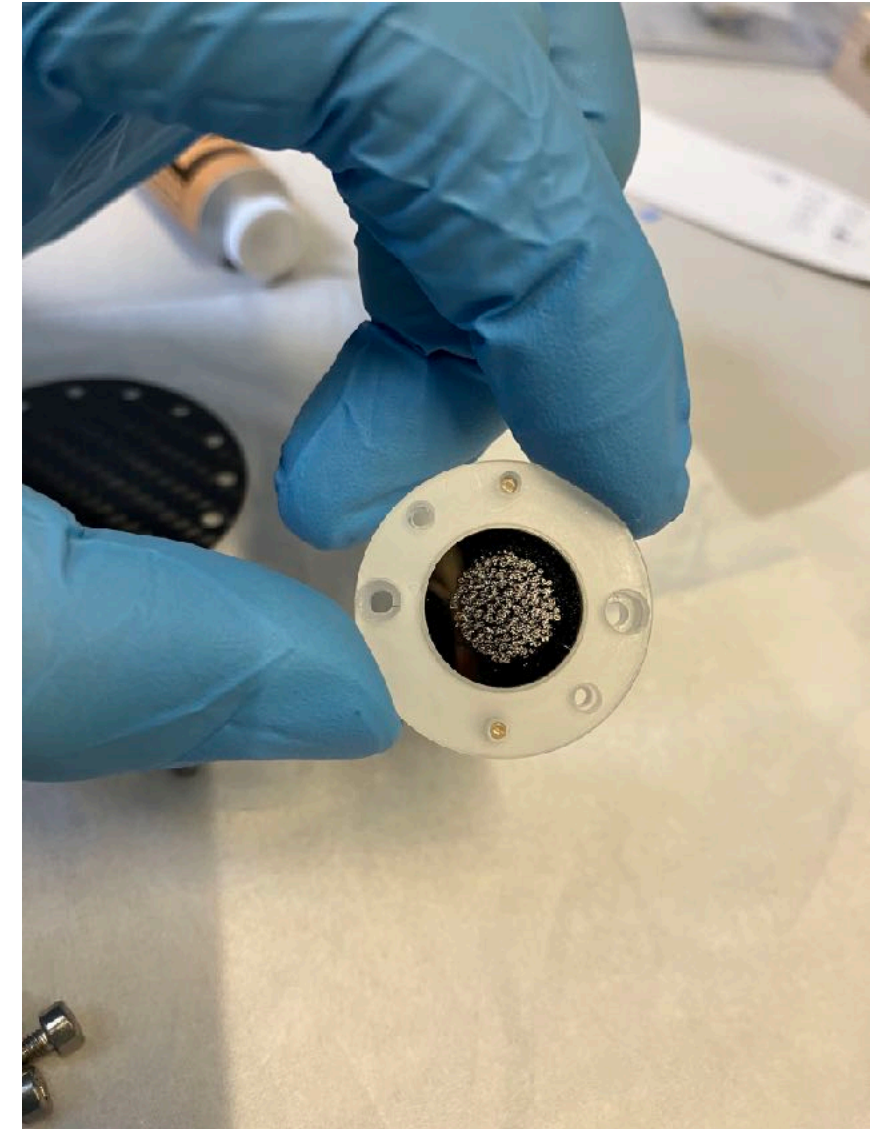
Varia & beam request

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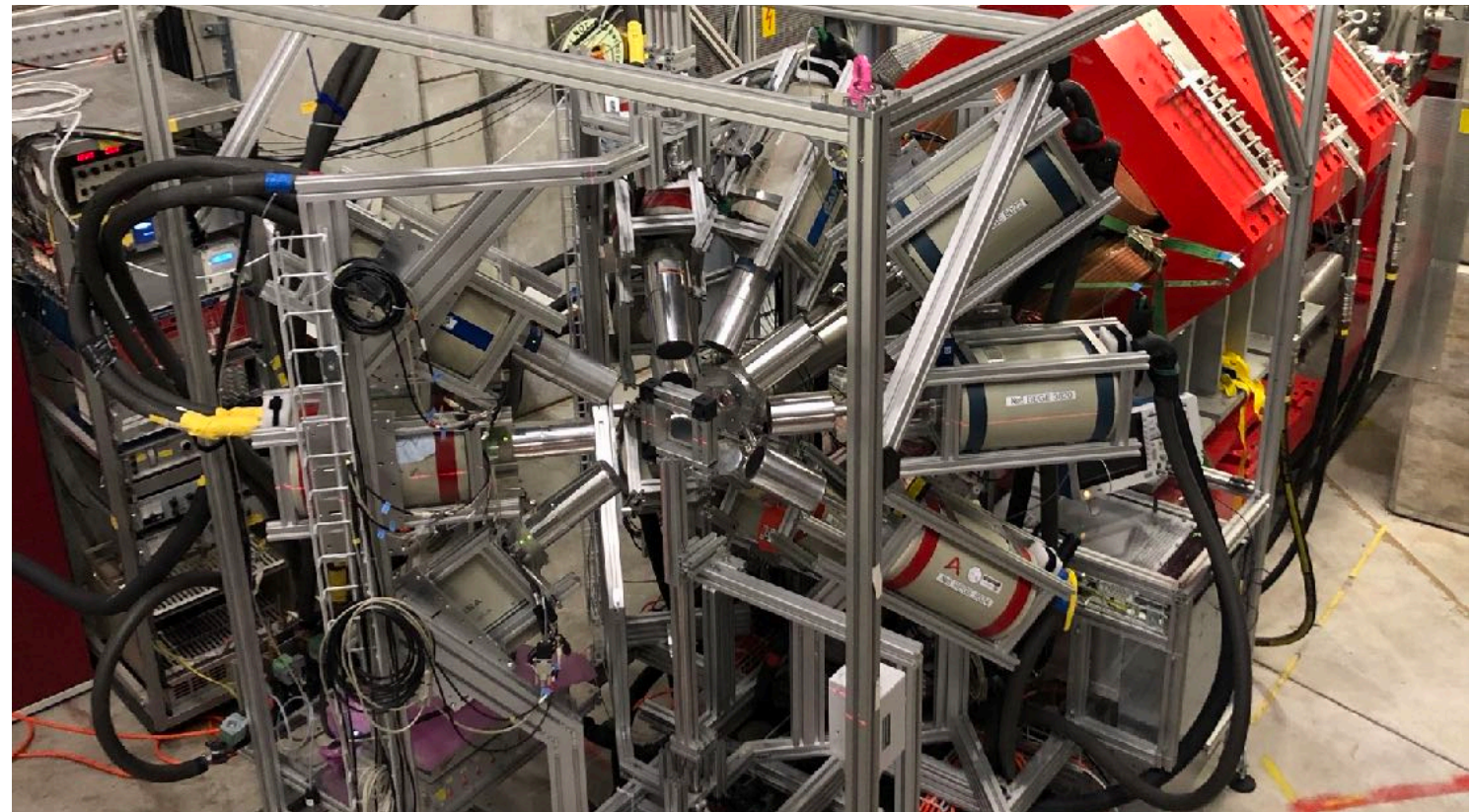
Targets for muX 2023

- ▶ Focus on finishing radium
- ▶ Based on the experience from the 2022 beamtime
- ▶ Three radium targets for best chance:
 - ▶ Molecular plating: PSI
 - ▶ Drop-on-demand: Mainz
 - ▶ Implanted: CERN, Leuven?
- ▶ Strategy: start with the “best” one and change to next after about 1 day if no x rays observed



Germanium detectors for 2023

- ▶ Similar to 2022
- ▶ MIXE frame
- ▶ Detectors borrowed from various places
- ▶ Should arrange some upgrade with the MIXE people during the shutdown in order to make the full installation more user friendly and flexible



Upgrade of veto detectors

- ▶ Since a while would like to do an upgrade of our veto detectors
- ▶ Cylindrical veto detector around the gas cell; small back and front veto detectors
- ▶ More compact arrangement in order to fully cover the solid angle for decay electrons and the possibility to come closer with the germanium detectors
- ▶ Better match for the upgraded, smaller entrance detector that we used this year



Beam request 2023

- ▶ Progress report currently under preparation; to be circulated late December/early January. Deadline for submission of report and beam request January 9th.
- ▶ Combined with other muonic x-ray experiments
- ▶ Aiming at autumn of 2023
 - ▶ Let me know if you have very strong time constraints in this period
- ▶ 2 weeks:
 - ▶ 0.5 week of setup, detector tuning, beam tuning, transfer optimisation
 - ▶ 1.5 weeks of radium data taking