

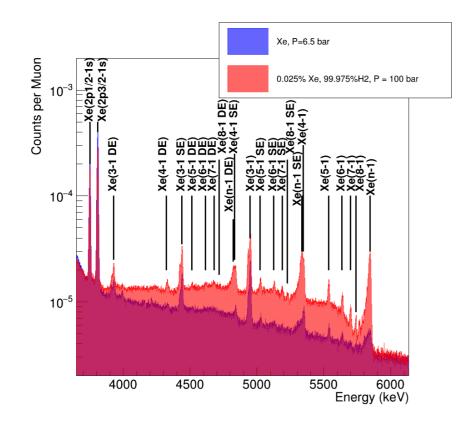
# Varia & beam request

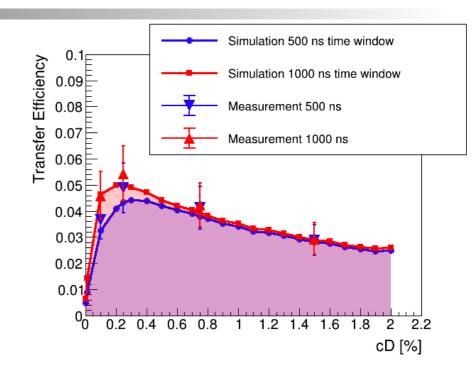
Andreas Knecht
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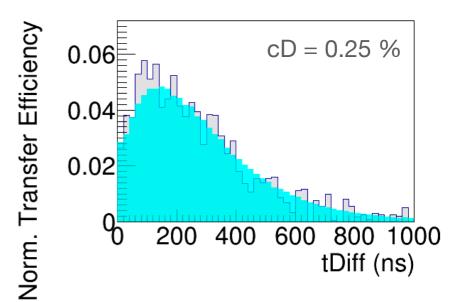
### Publications



- Two publications to be prepared in first half of 2022 based on Alex' thesis:
  - muX method paper including the comparisons of measurement/simulation
  - Muon transfer to argon, krypton, xenon



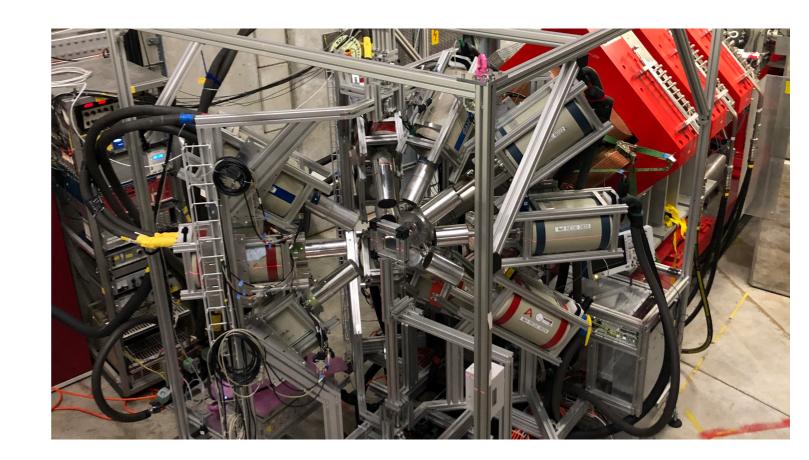




#### Germanium detectors for 2022



- Our MIXE colleagues at PSI have developed a nice frame to mount germanium detectors. Currently running with 11 detector.
- They also own 4 germanium detectors (2 BeGe, 2 co-ax) that we can use
- Additional detector options:
  - ▶ PSI 70% detector
  - Leuven Miniball cluster (still at PSI)
  - ▶ Leuven 75% detector?
  - PSI radiochemistry
  - Some detectors most likely available from our OMC4DBD colleagues



### Other developments in 2022



- DAQ upgrade:
  - New racks
  - New frontend computer
  - Software developments: frontend, analyser, online display
  - Also interest (+ help) from MIXE and Muonium experiments
- Target making towards radium target (for 2023?):
  - ▶ To be discussed with radiochemistry groups @ Mainz/PSI beginning of next year

**Andreas Knecht** 

## Beam request 2022



- Progress report currently under preparation; to be circulated early January. Deadline for submission of report and beam request January 10th.
- Combined with OMC4DBD & MIXE
- Aiming at autumn of 2022
  - Let me know if you have very strong time constraints in this period
- 3 weeks:
  - ▶ 1 week of setup, detector tuning, beam tuning, transfer optimisation
  - ▶ 2 weeks of measurements: various gold samples + low-Z

MIXE will also request beam time at the beginning of the beam period. They offered, that one could test something for 1-2 days, if we have anything at that point.