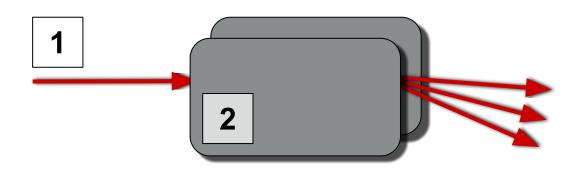
# Status update: EDS@E320 Analysis

Antonios Athanassiadis on behalf of the EDS team

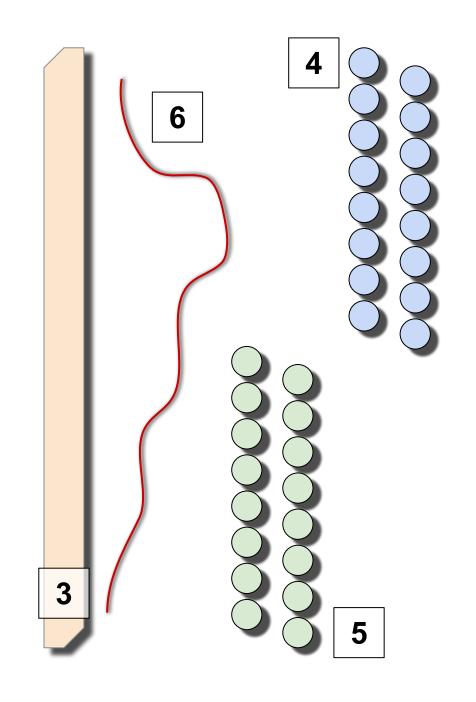
21.03.2025



# **Schematics of the Setup**

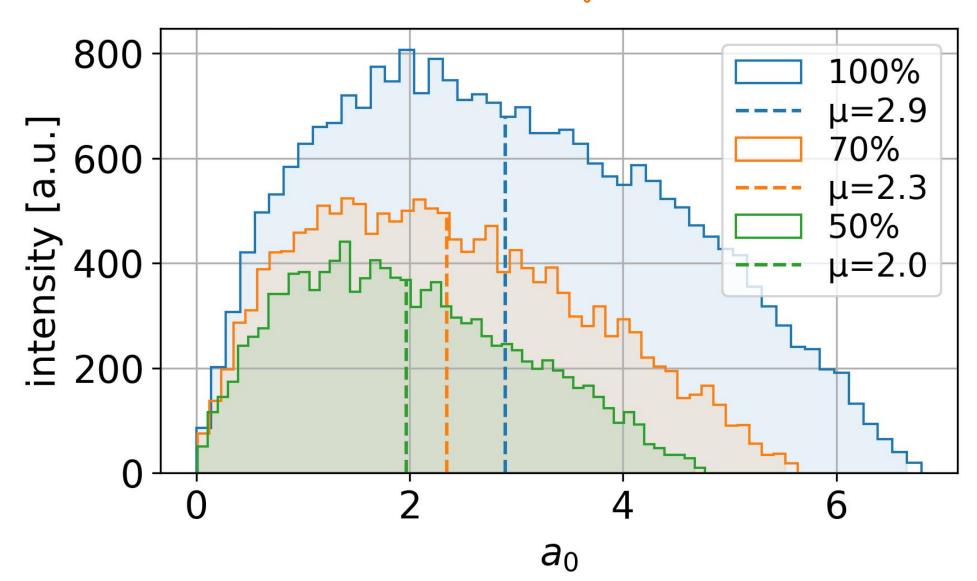


- 1. Electrons from electron-laser interactions
- 2. Spectrometer dipole
- 3. Scintillating screen
- 4. Stainless-steel straws
- 5. Glass rods
- 6. Expected Compton spectrum along the vertical axis



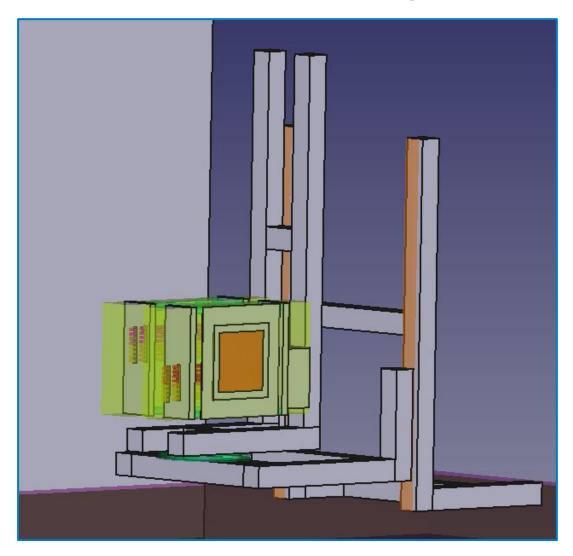
## **Simulations**

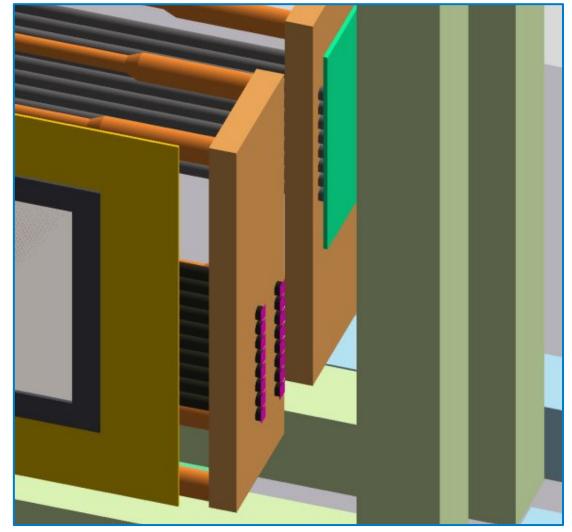
### Ptarmigan simulation of a<sub>n</sub> with E320 settings



# **Simulations**

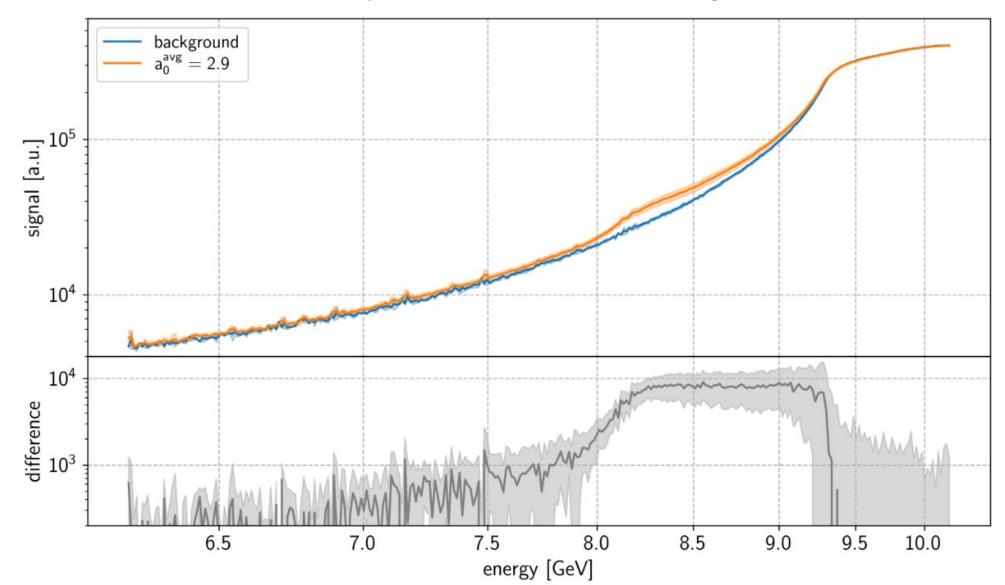
**EDS** implementation in geant4 (by Sasha)



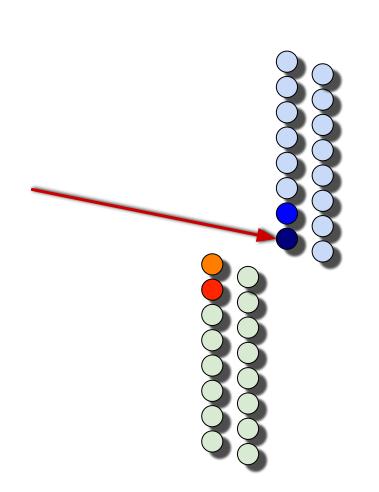


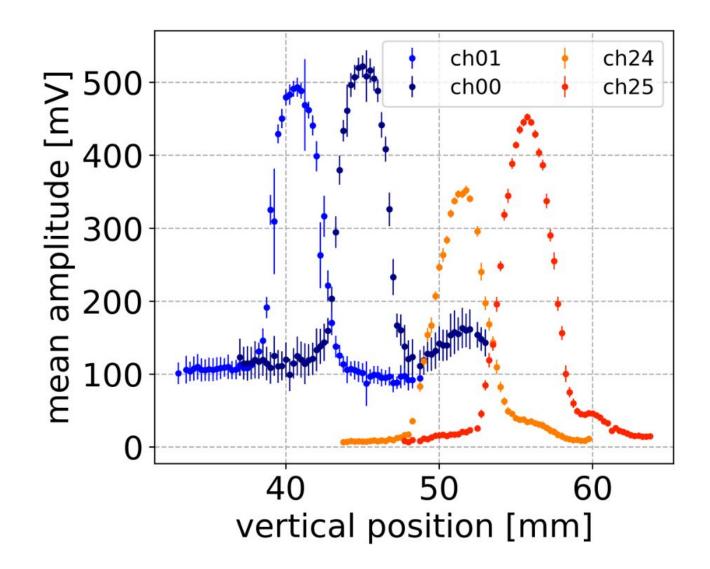
# **Screen Data**

## **Spectrum at 100% laser intensity**

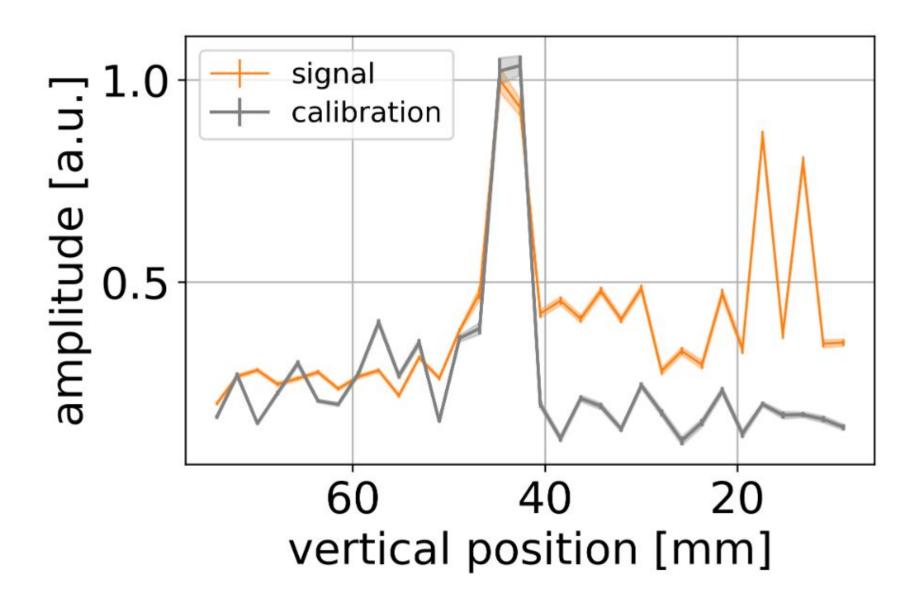


#### **Vertical scan for calibration**

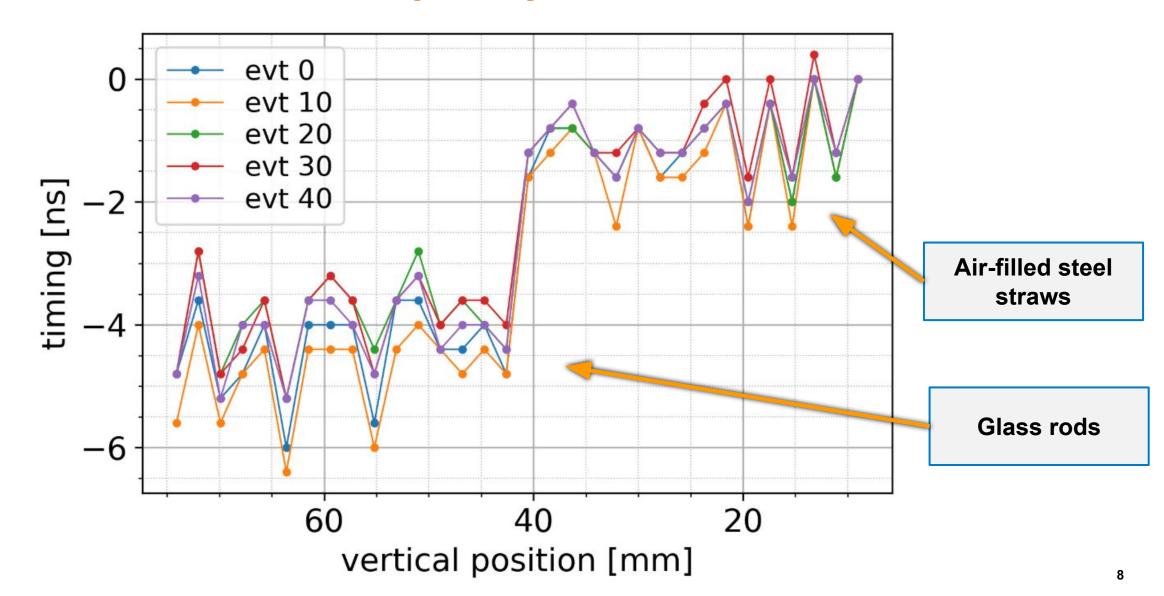




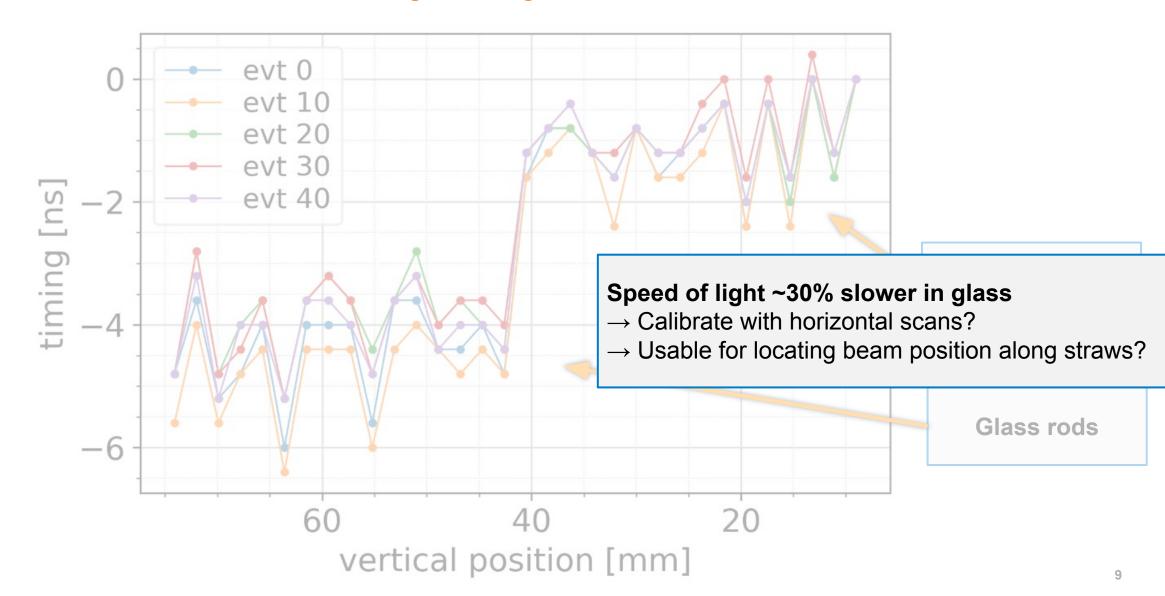
#### **Calibration of straw spectrum**



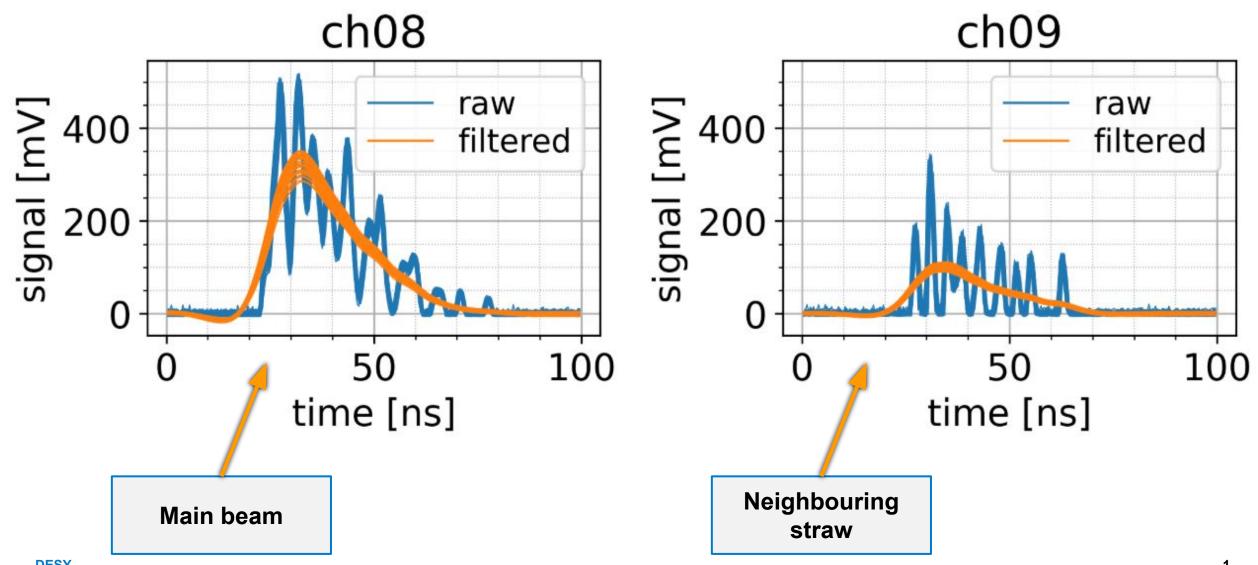
#### Straw signal timing for all channels



#### Straw signal timing for all channels



#### Comparison of straw signal shapes with and without filter



DESY.