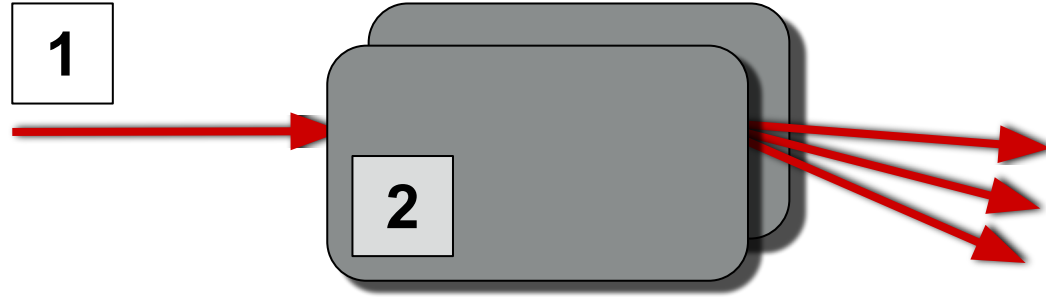


Status update: EDS@E320 Simulations

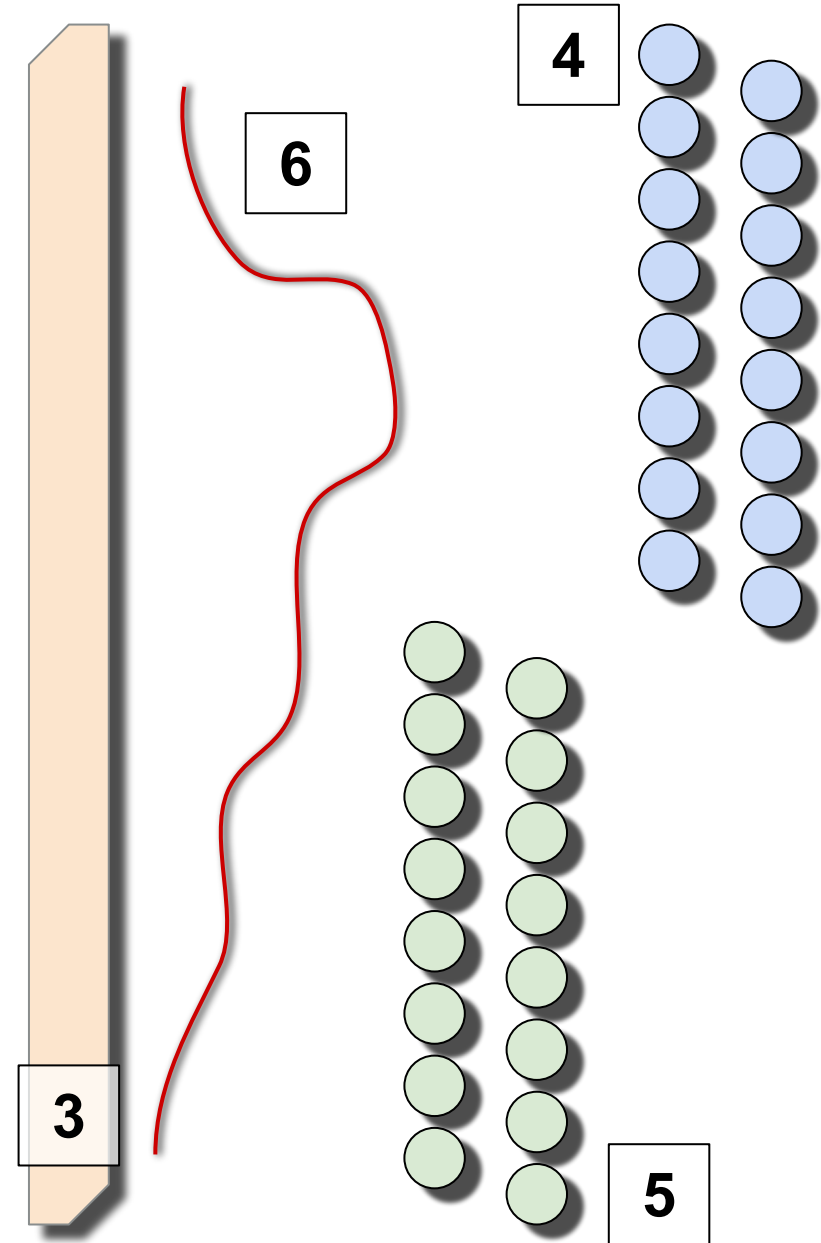
Antonios Athanassiadis on behalf of the EDS team

06.06.2025

Schematics of the Setup in ETTSim

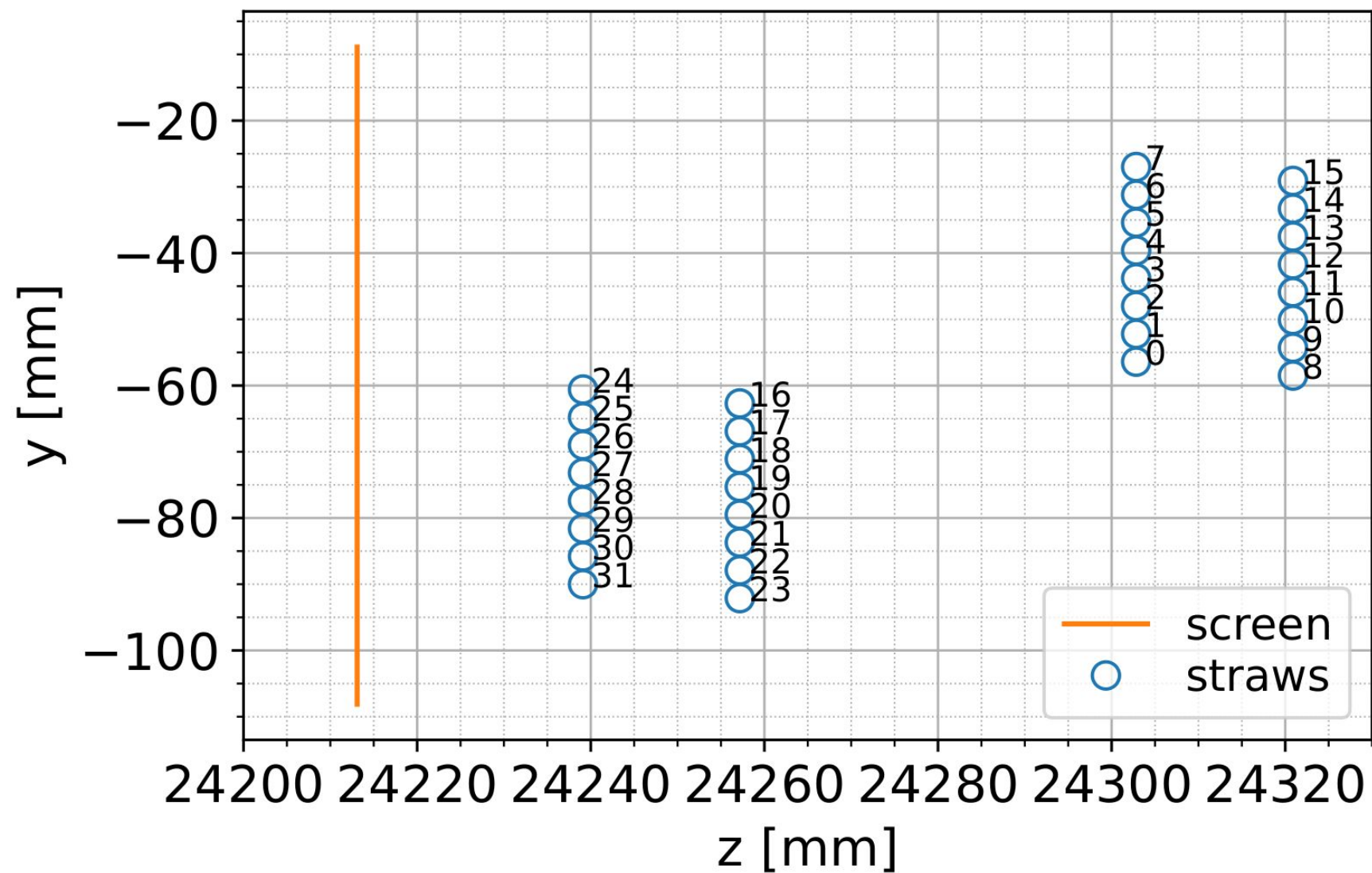


1. Electrons from electron-laser interactions
2. Spectrometer dipole
3. Scintillating screen
4. Stainless-steel straws (tilted by -7°)
5. Glass rods (tilted by -7°)
6. Expected Compton spectrum along the vertical axis



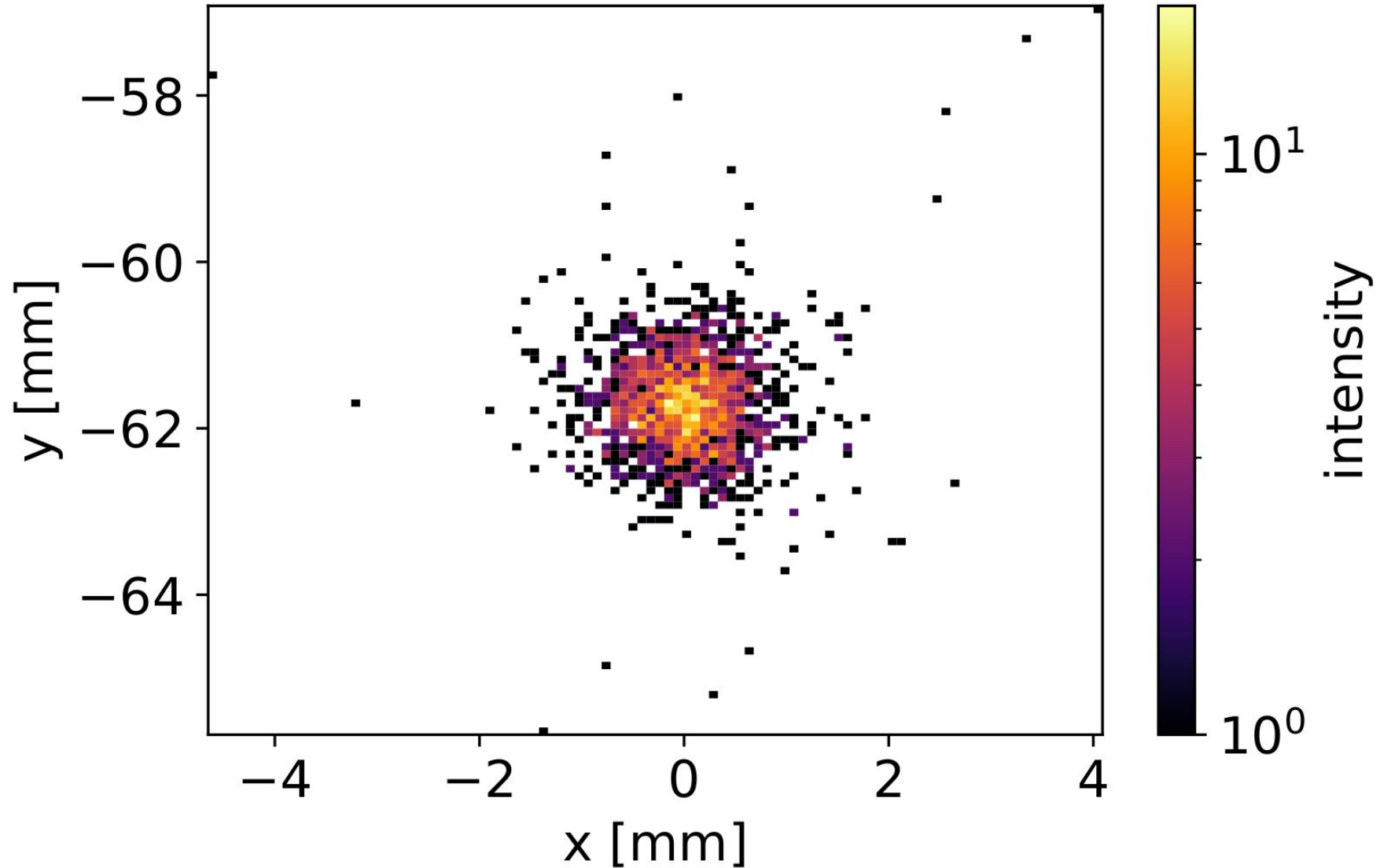
Mono-energetic Beam Simulations

Setup Read-back



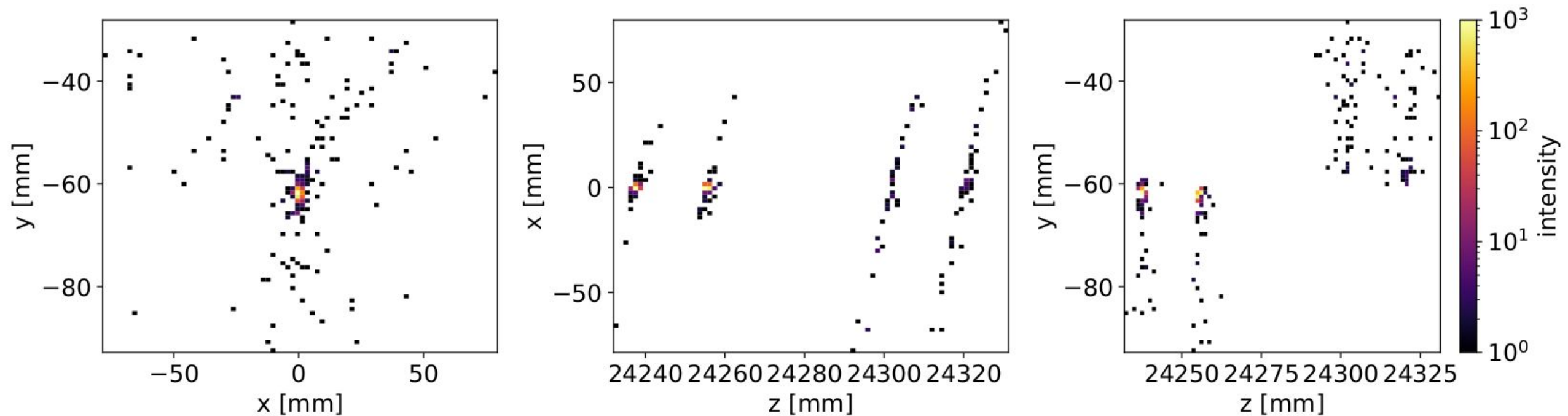
Mono-energetic Beam Simulations

Screen Hits



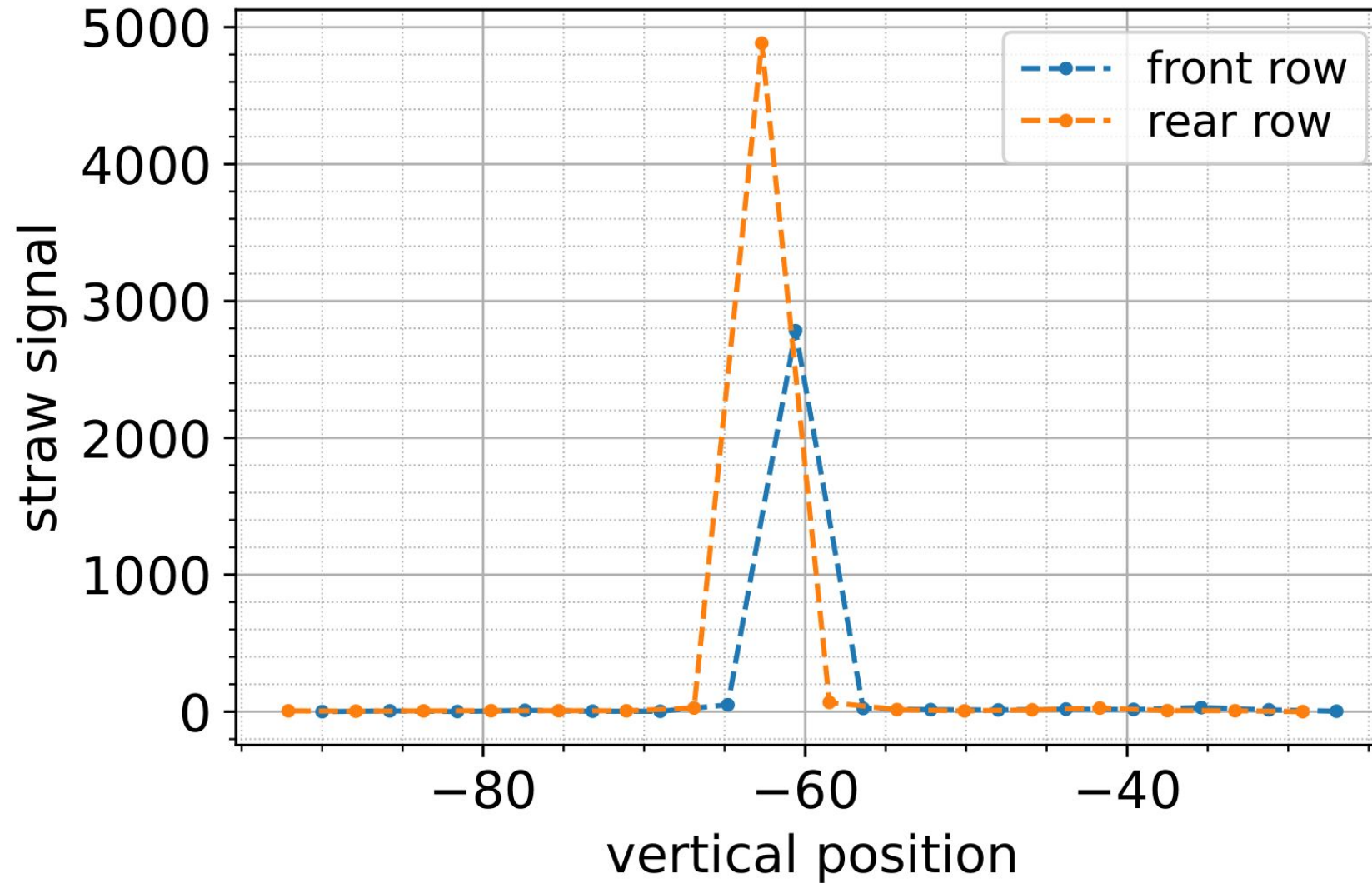
Mono-energetic Beam Simulations

Straw Hits



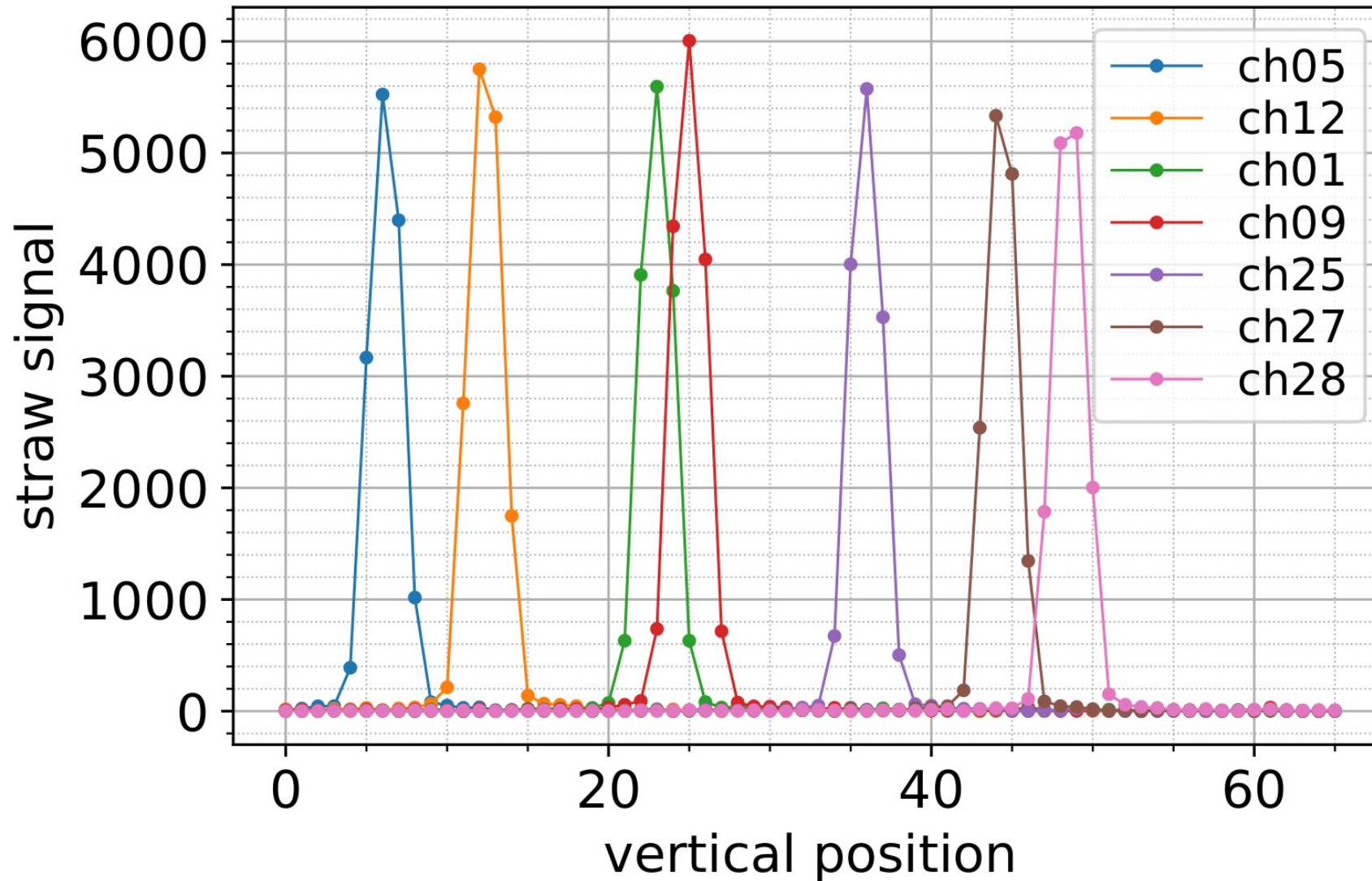
Mono-energetic Beam Simulations

Straw Spectrum (Static)



Mono-energetic Beam Simulations

Straw Spectrum (Dynamic)



Mono-energetic Beam Simulations

Higher Statistics

Coming Soon...