

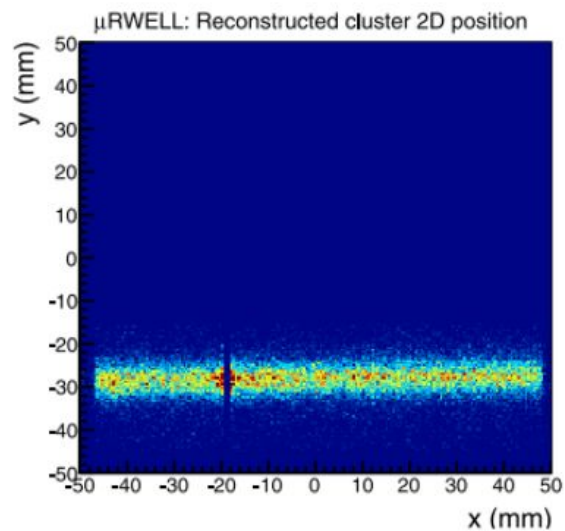
12/11/25 Update

Florida Tech

Pietro Iapozzuto

Tracker Beam Hit map

5/5/25 Data



Recall from Kondo's Paper

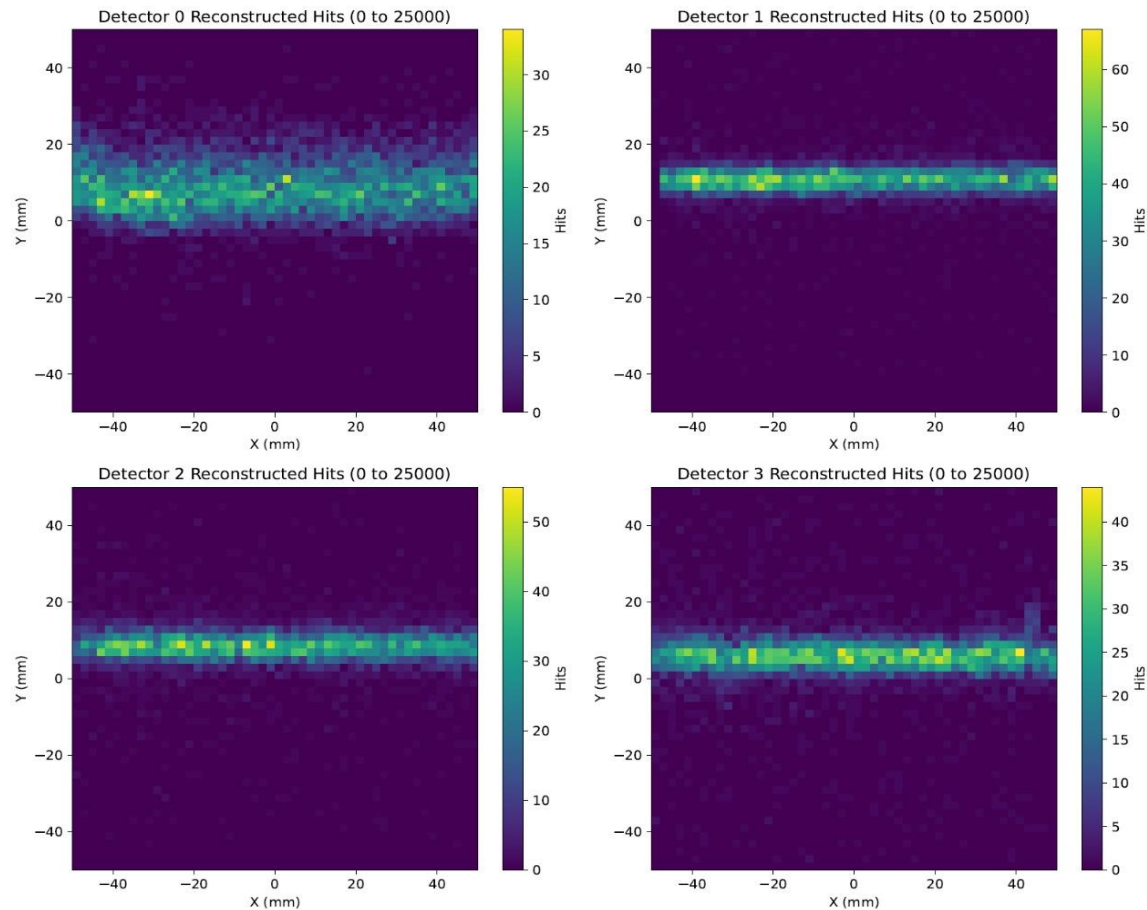
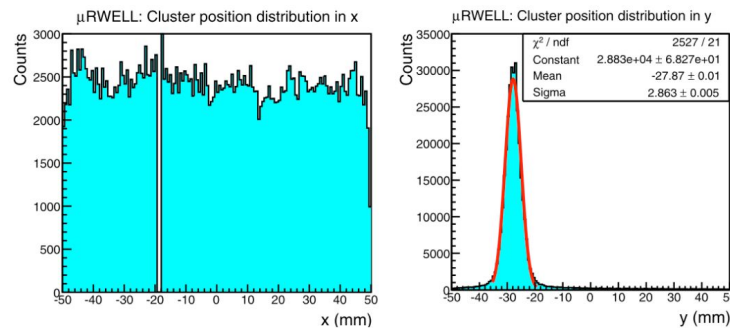


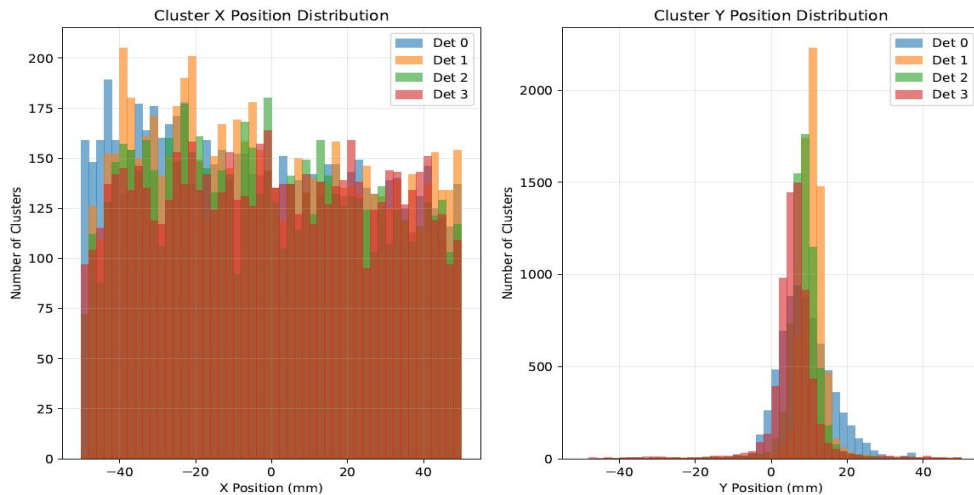
Fig. 5. Hall D PS electron beam profile reconstructed with the capacitive-sharing μ RWELL prototype: 2D hit position map (*left*); reconstructed hit position distribution in x (*middle*); reconstructed hit position distribution in y (*right*). The efficiency loss caused by two dead channels of the APV25 FE connected to the x -strips is shown on the left and middle plots at $x \sim -18$ mm.

Kondo's Paper

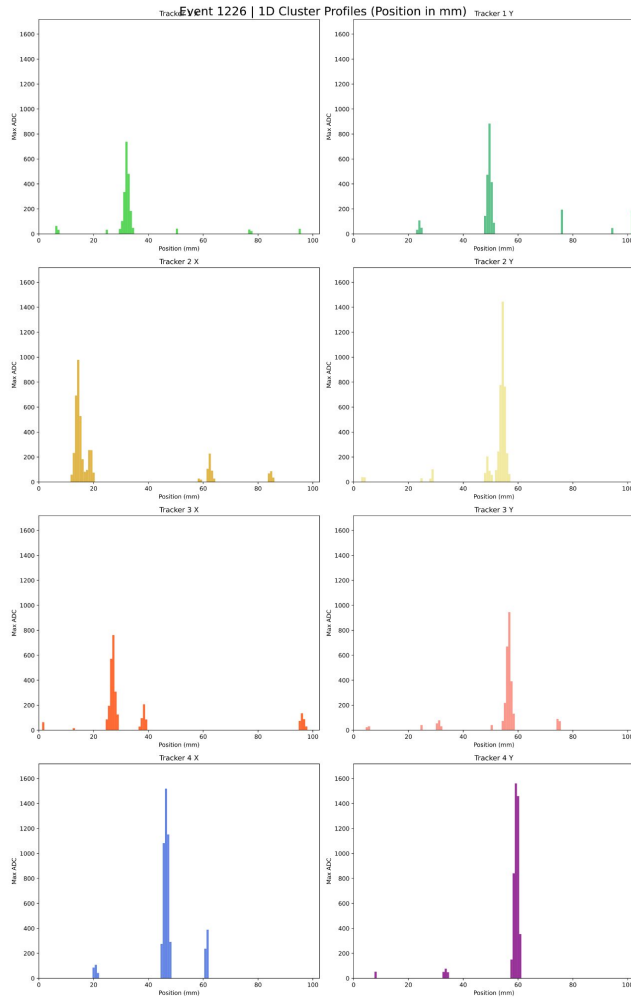


passive-sharing μRWELL prototype: 2D hit position map (*left*); reconstructed hit position distribution in x (*middle*);
loss caused by two dead channels of the APV25 FE connected to the x-strips is shown on the left and middle

5/5/25 Data

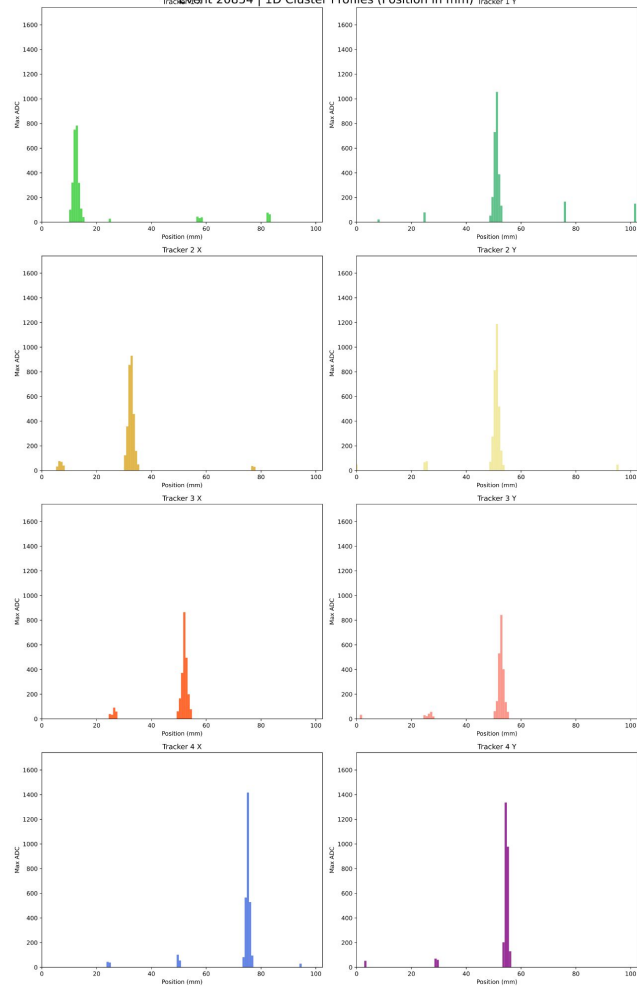


1D Histograms

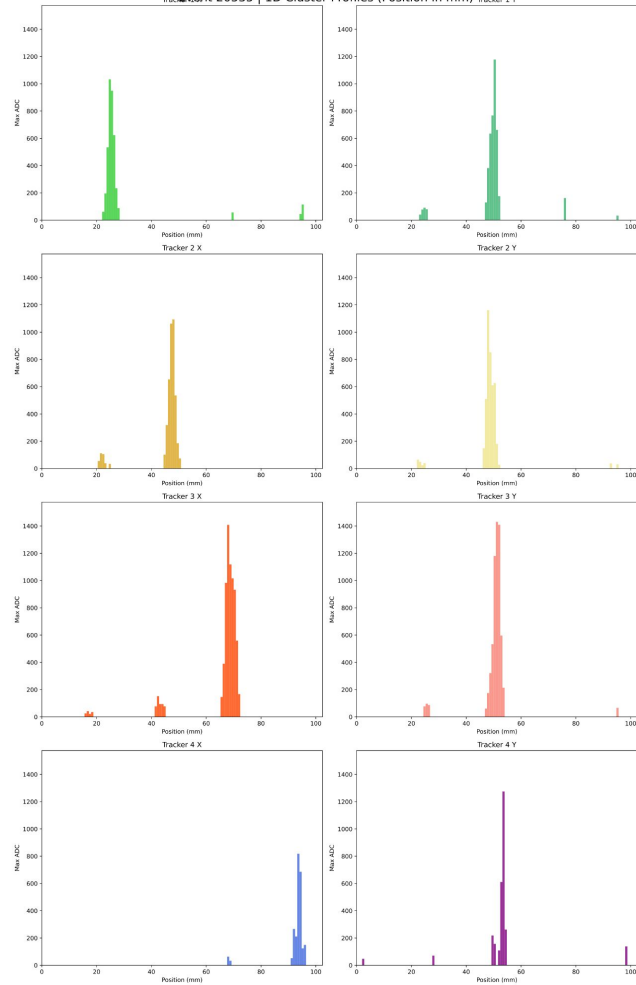


plotsub_c_csv_pdf_pulses_position
_clustering.py

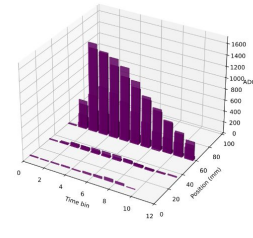
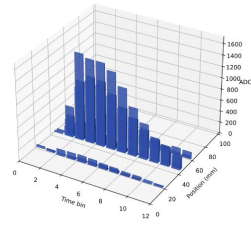
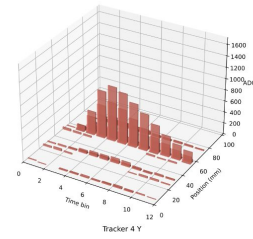
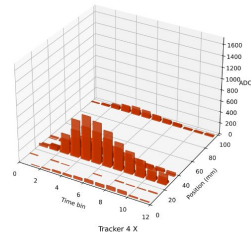
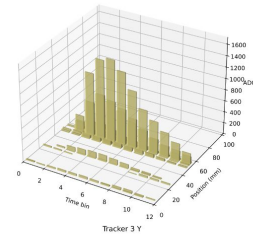
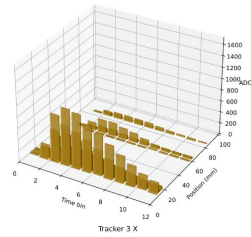
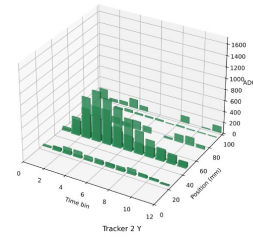
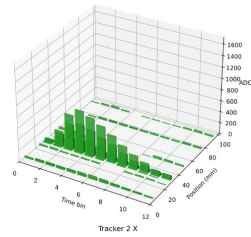
Event 20854 | 1D Cluster Profiles (Position in mm)



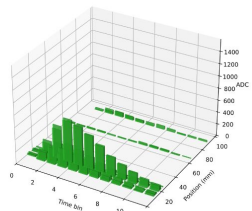
Event 20535 | 1D Cluster Profiles (Position in mm) Tracker 1 Y



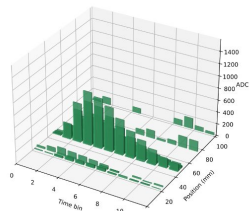
Tracker Event 1226 | 3D Time Profile (Position in mm) User 1 Y



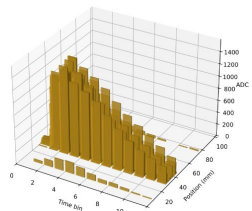
Tracker Event 5670 | 3D Time Profile (Position in mm) Tracker 1 Y



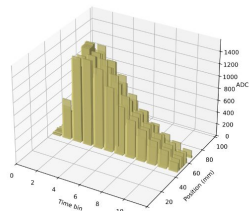
Tracker 2 X



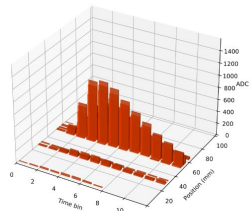
Tracker 2 Y



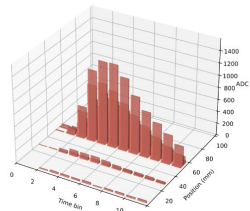
Tracker 3 X



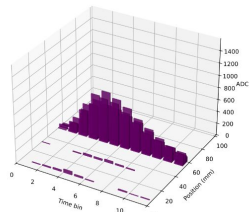
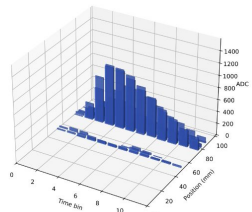
Tracker 3 Y



Tracker 4 X



Tracker 4 Y



Future Tasks

- Get Mapping correct for cylindrical data