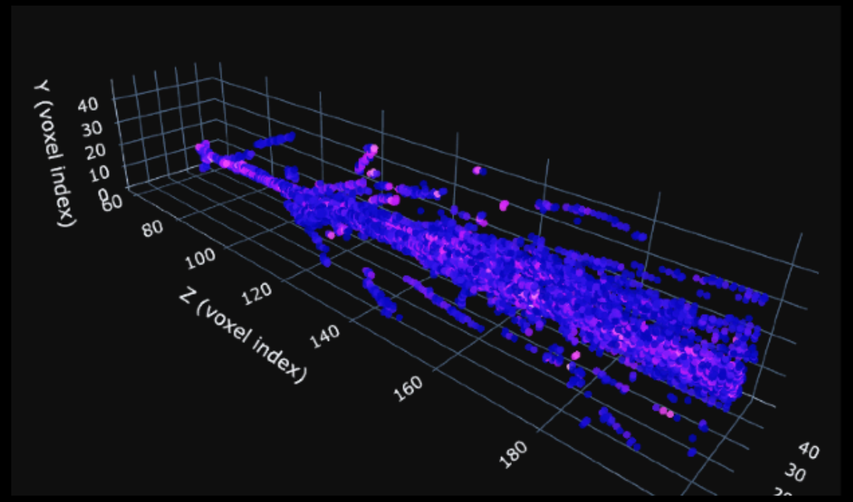
Material of Cube; scinitllator?

Pipeline

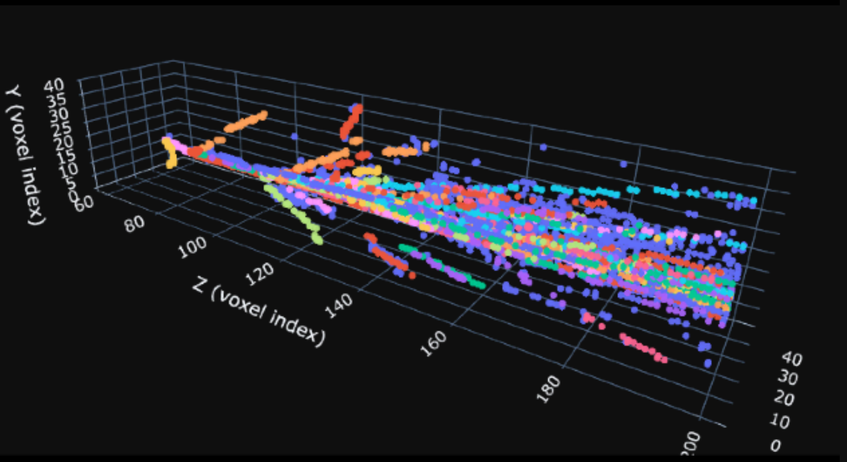
- 10 planned modules: 20 layers of 50x50 of 1 ×1 ×1 cm^3 optically isolated plastic scintillator cubes (voxels).
- *The scintillator material:* follows the composition used for its predecessor, the *SuperFGD*
  - *P*olystyrene base doped with 1.5% p-terphenyl (PTP) as a primary fluor and 0.01% POPOP as a secondary wavelength shifter.
- *After production:* reflective layer on the surface, by chemical etching, forming a 50–80 μm thick white microporous polystyrene coating.
- 1.5 mm orthogonal holes for *Wavelength-Shifting (WLS) fiber:*
  - Ensure an optimal light yield of approximately 30 photoelectrons per Minimum Ionizing Particle (MIP) for a single 1-meter-long WLS fiber

Event Displays

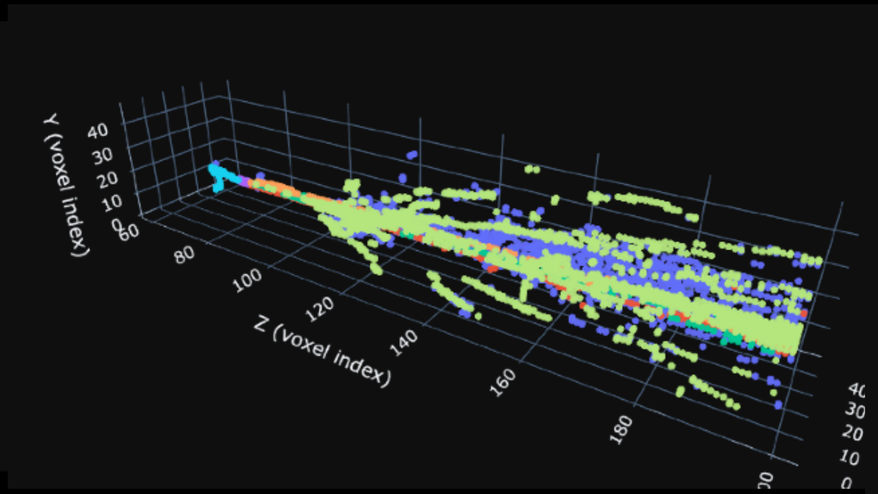
Voxel ID



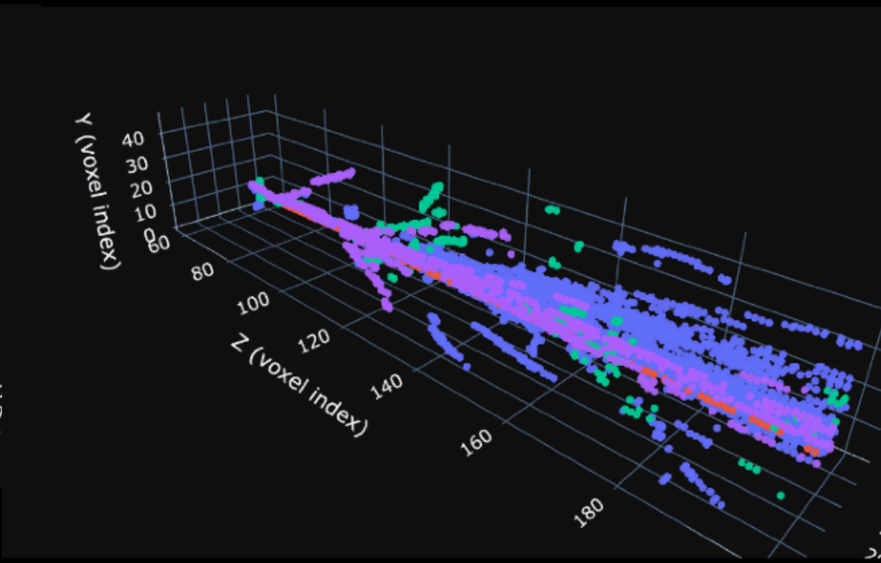
Energy Plot



Track ID



Primary ID



Hit PDG ID