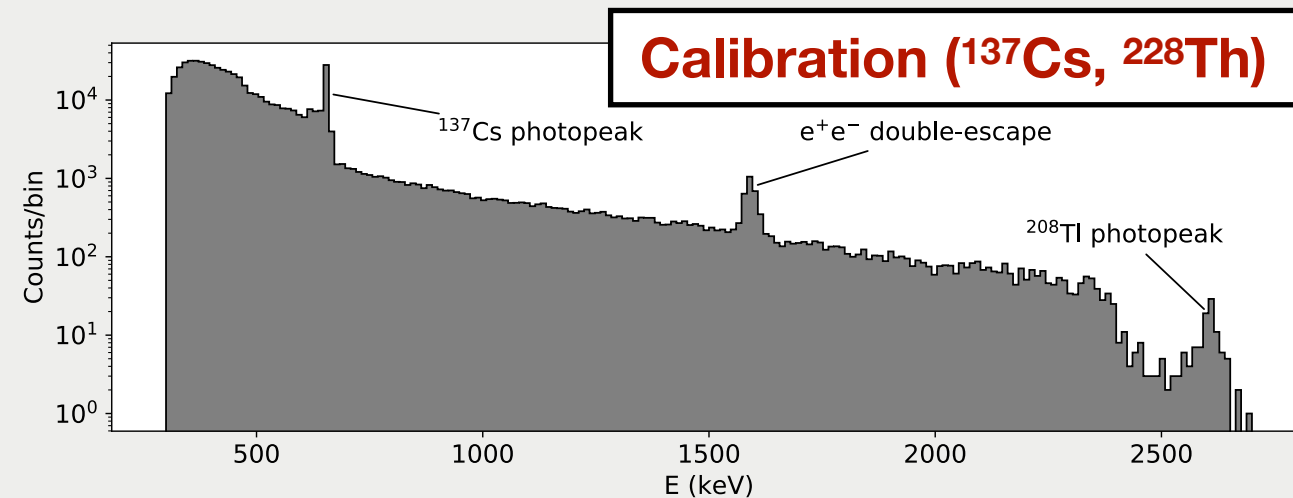
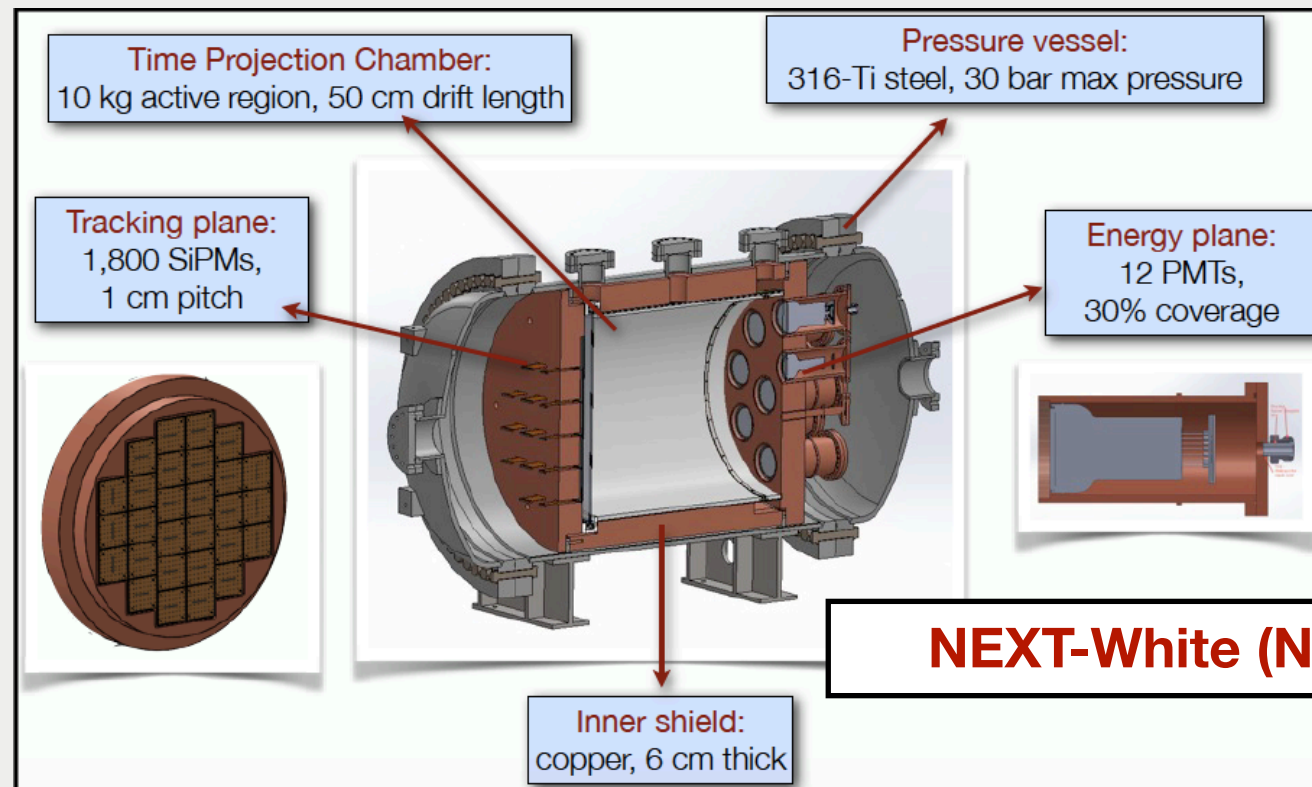
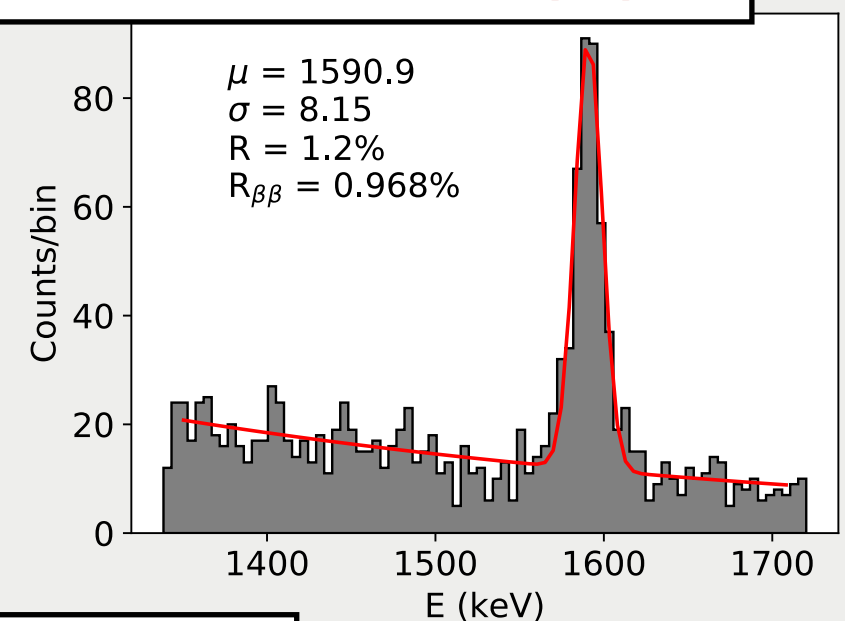


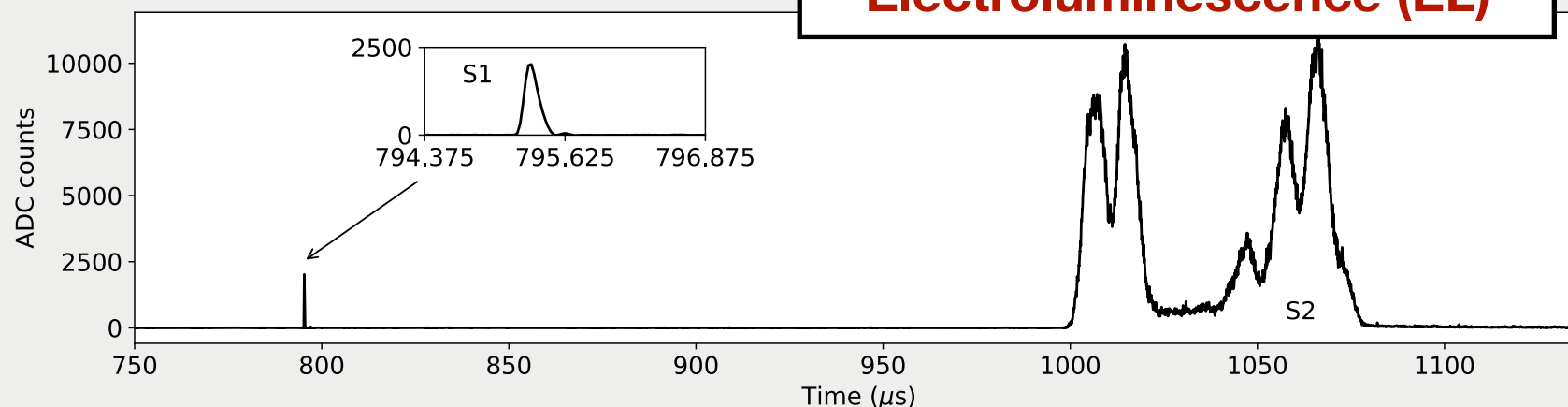
Characterization of the NEXT-White Detector with Calibration Data



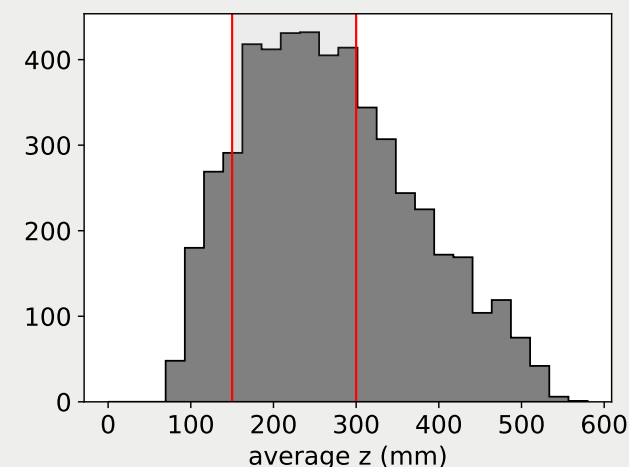
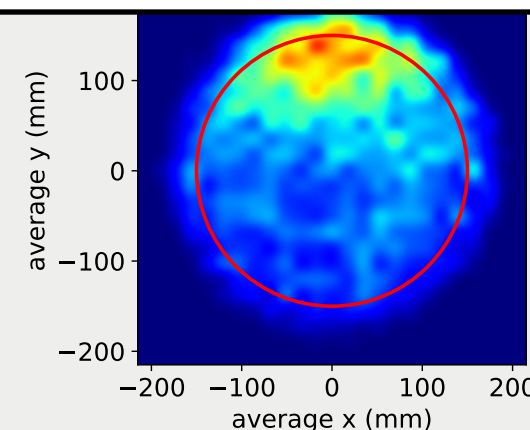
2.6 MeV e^+e^- double-escape peak



Electroluminescence (EL)



Fiducial cuts

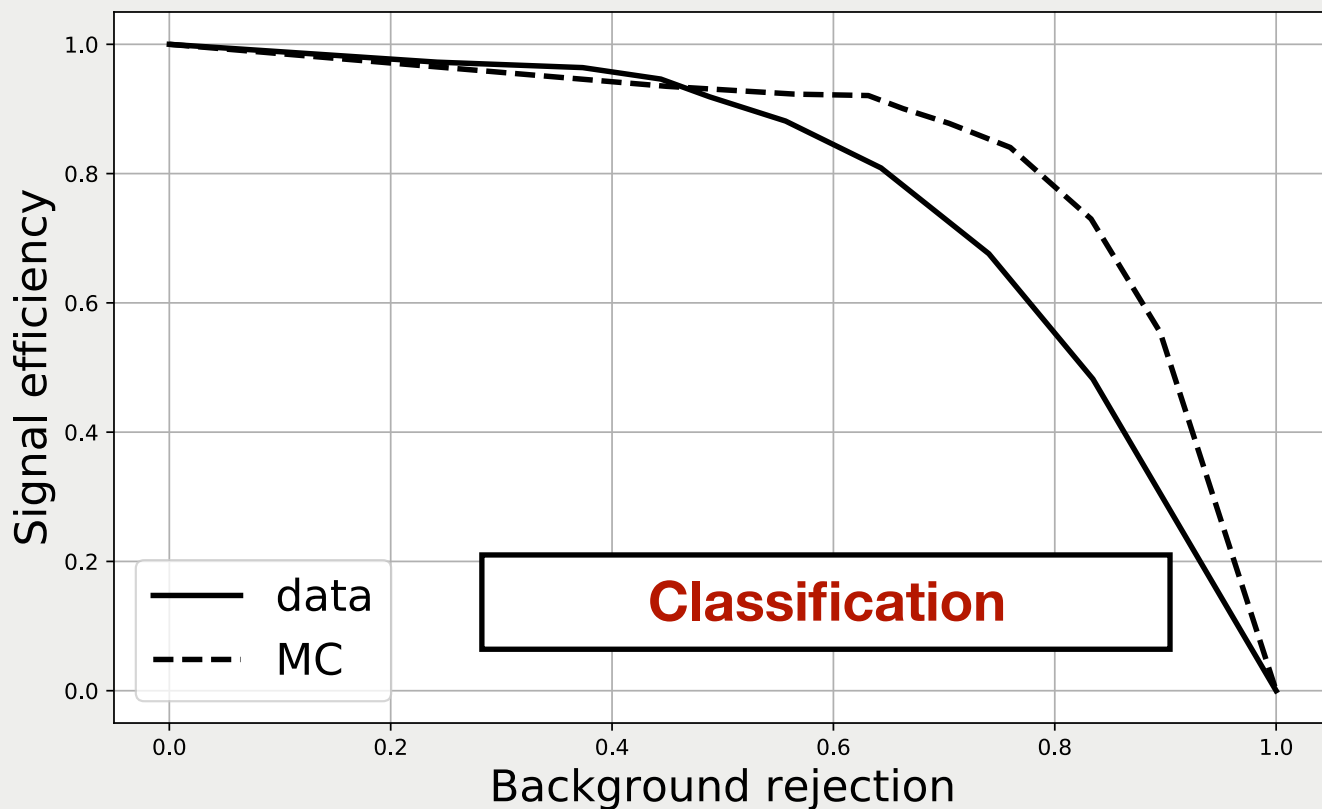
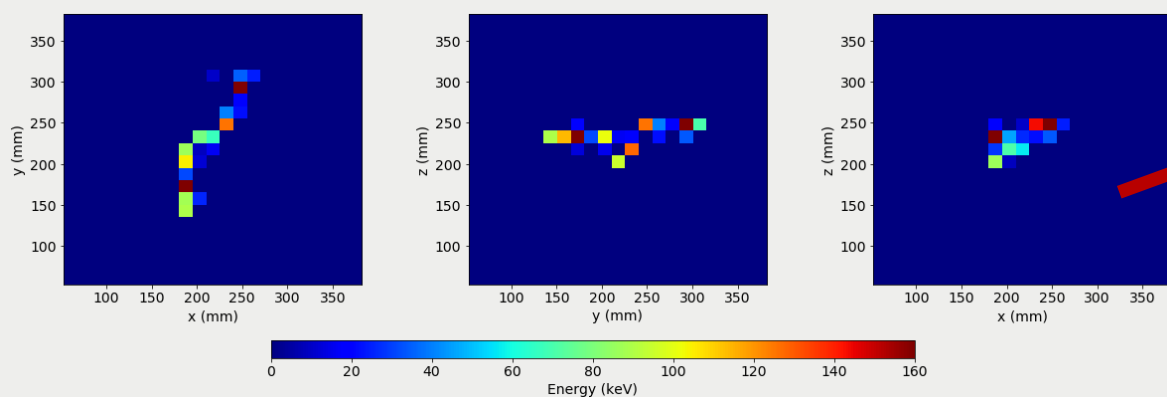
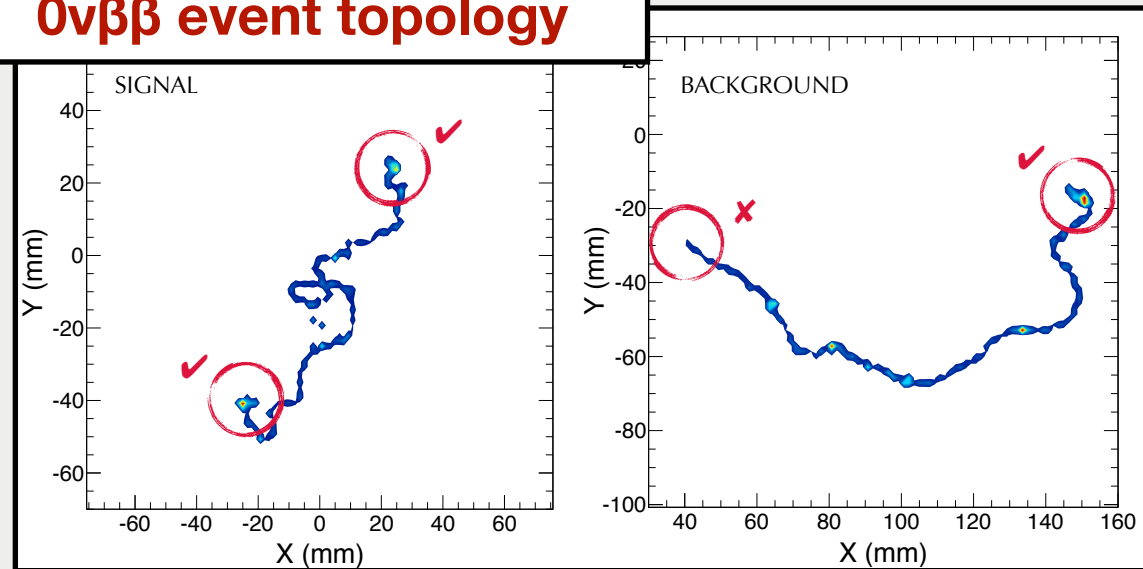


Energy resolution

- Pure Xe gas at 7 bar
- Extrapolates to $< 1\%$ FWHM at $Q_{\beta\beta}$
- Measured up to 1.6 MeV

Event topology and classification

$0\nu\beta\beta$ event topology



Event classification

- Use e^+e^- double-escape events as “2-electron” tracks
- 3D energy reconstruction in cubical spatial elements
- Train a deep neural network with MC events to perform classification

