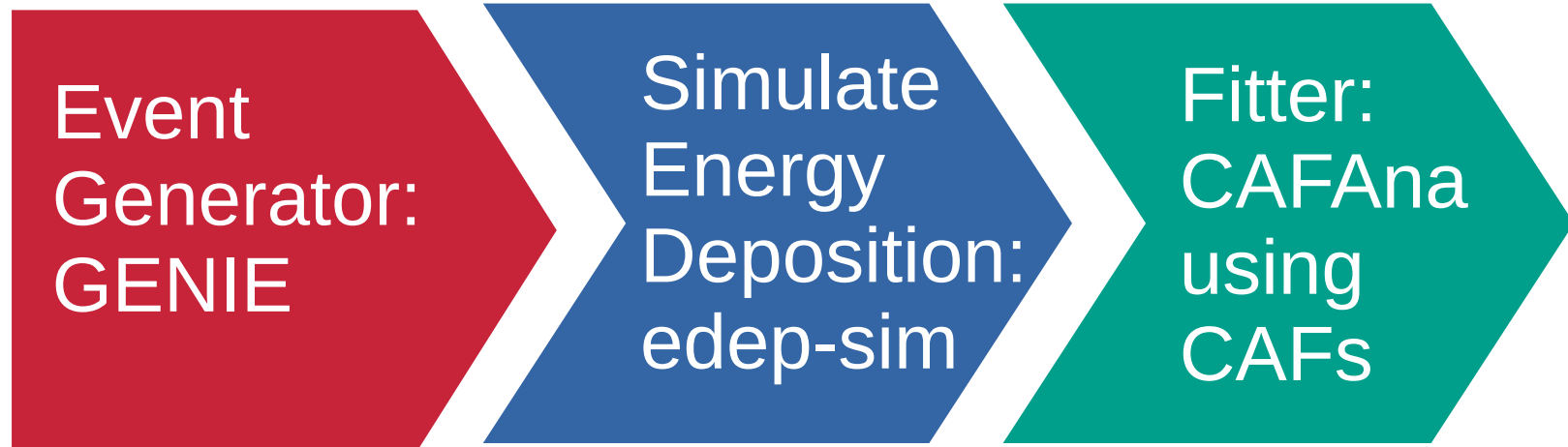


# GAr Sample Analysis Update

**Tanaz Angelina Mohayai (FNAL)**  
Justo Martin-Albo (Harvard)  
Oct. 22, 2018

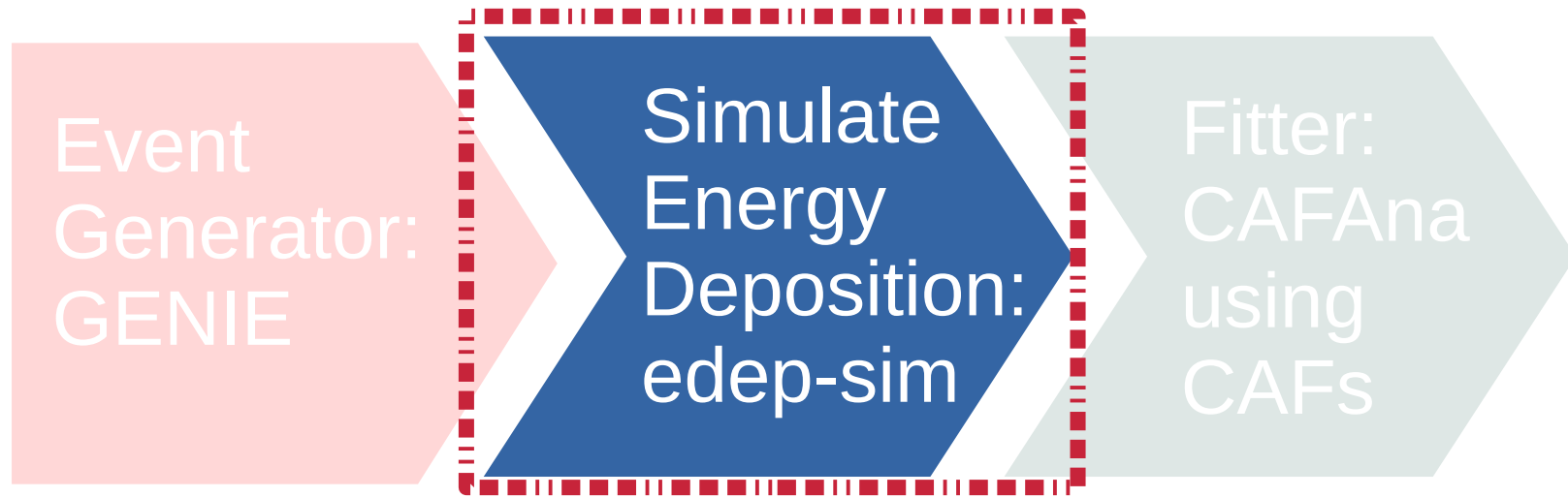
# LBL Fit Analysis Roadmap

- Chris M's LAr routine: [https://github.com/cmmarshall/DUNE\\_ND\\_CAF.git](https://github.com/cmmarshall/DUNE_ND_CAF.git)
  - Been adapting it for GAR use
  - Once finalized, will be added to the DUNE\_ND\_CAF routine

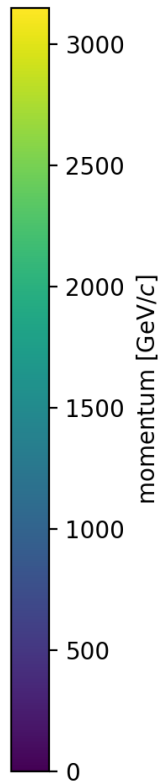
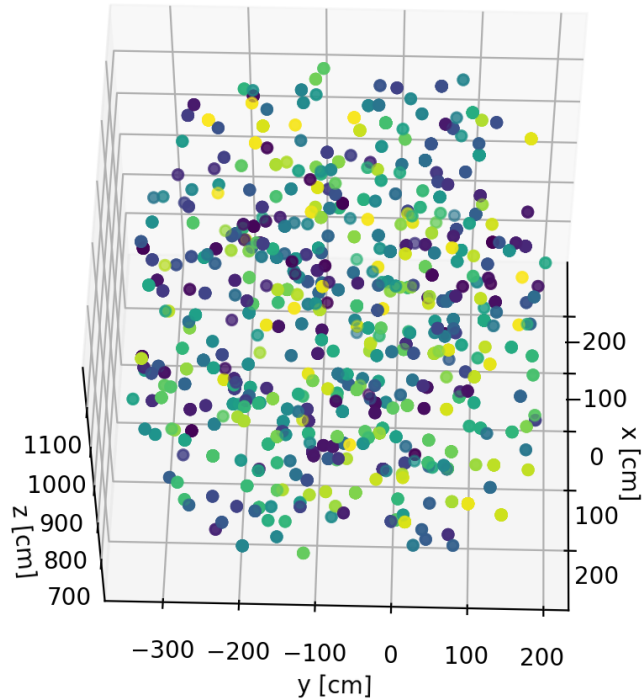


# LBL Fit Analysis Roadmap

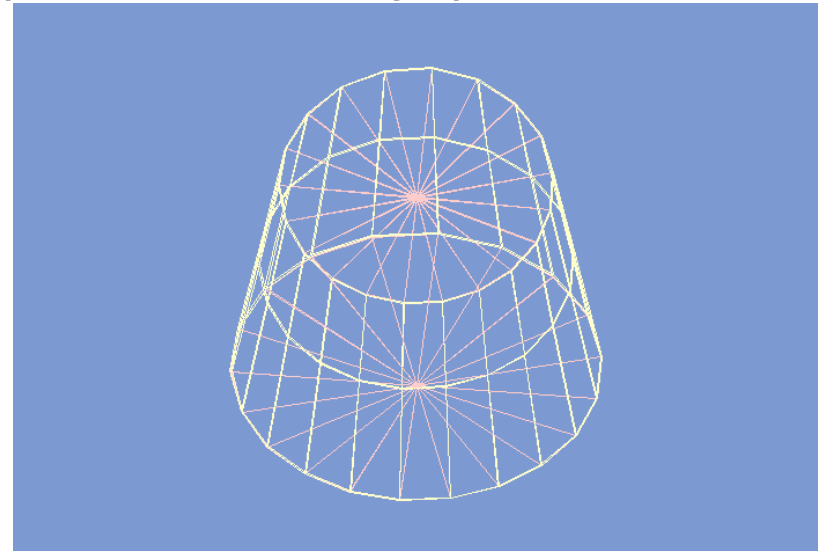
- The bulk of the new changes made in the edep-sim part of the process



# Gas TPC $\nu$ Vertex Interactions

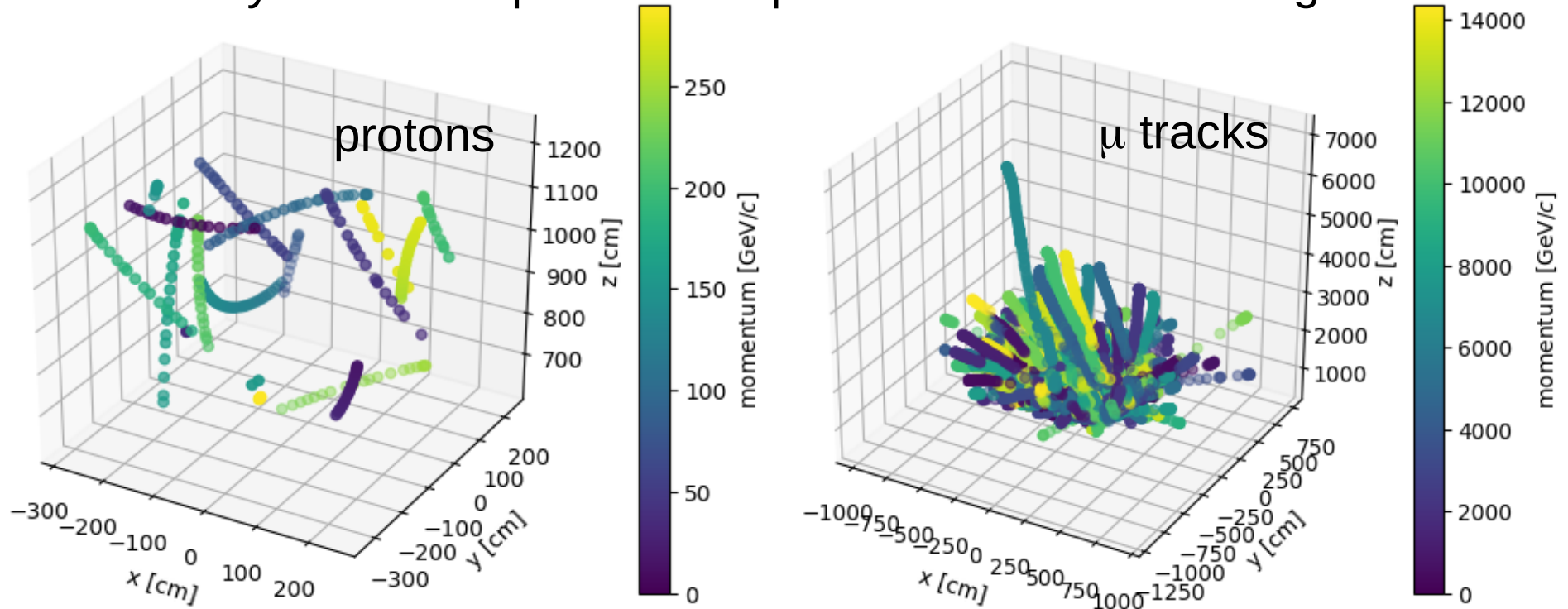


- All  $\nu$  vertex interactions: showing the expected Gas TPC dimensions
- Same offset corrections used as LAr (due to beam angle)



# Event Selection Examples

- Need to classify where the particles stop + understand the background



# Next Steps

- (pseudo-)reconstruction in progress – will follow a similar scheme as LAr
- Background studies
- Will add the GAr edep-sim routine to DUNE\_ND\_CAF, once finished