

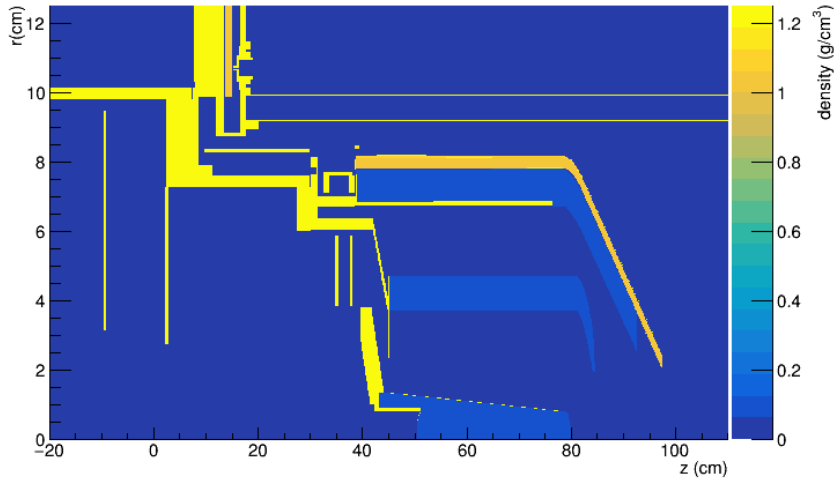
Updates to CCDB

- New variation added to CCDB called “mc_cpp” (based on “mc_generic”)
- New material maps generated for HDDS 3.11 for both GlueX and CPP
- “Material Maps” refers to maps used by tracking reconstruction for energy loss and covariance matrix propagation
- Maps are cylindrically symmetric and index only in r and z

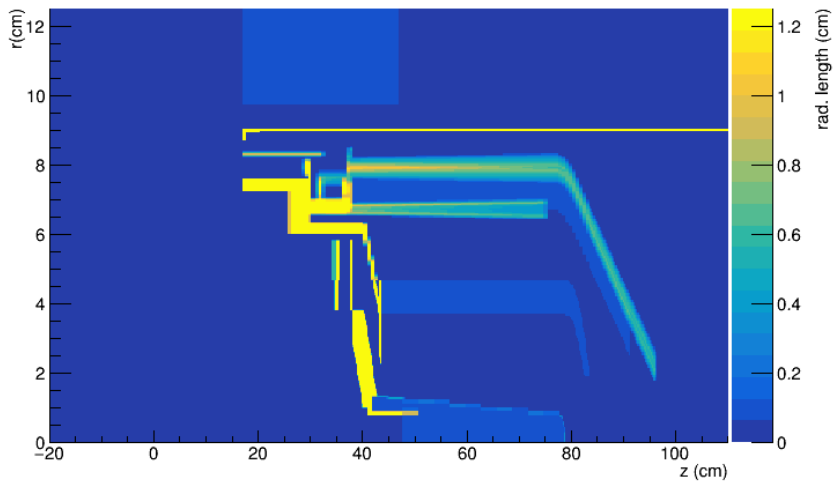
Target Region

GlueX

Material Map from FindMatLL(...)

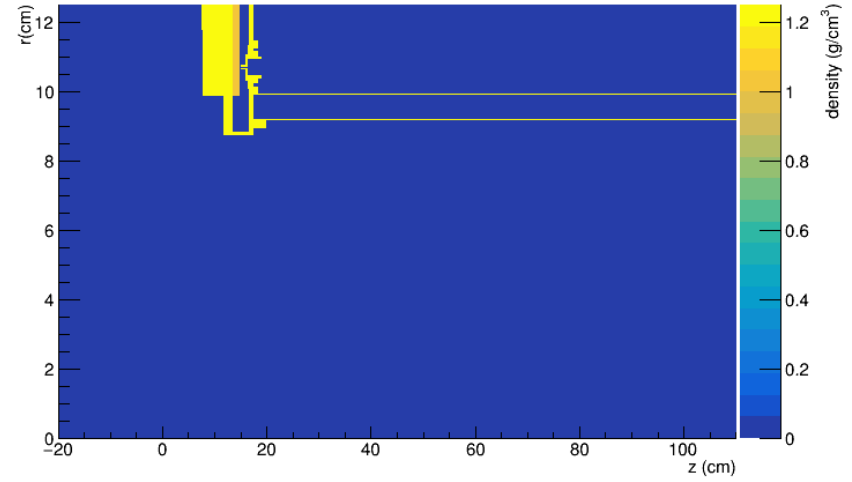


Material Map from FindMatTable(...)

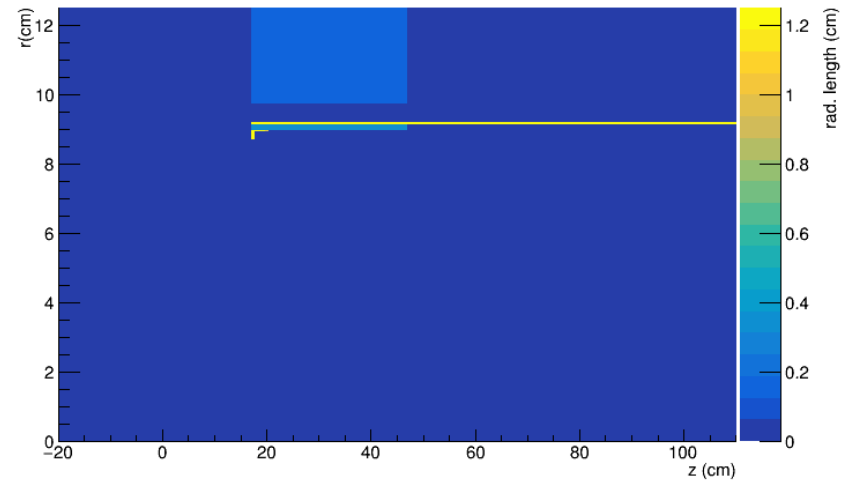


CPP

Material Map from FindMatLL(...)



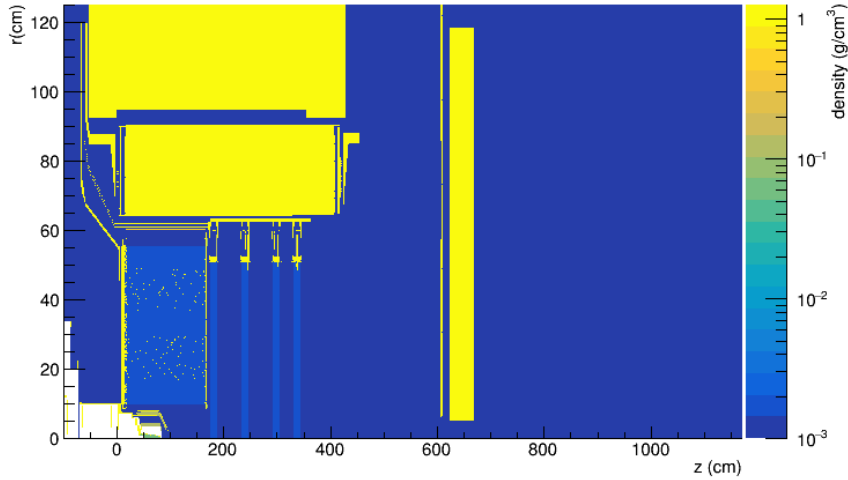
Material Map from FindMatTable(...)



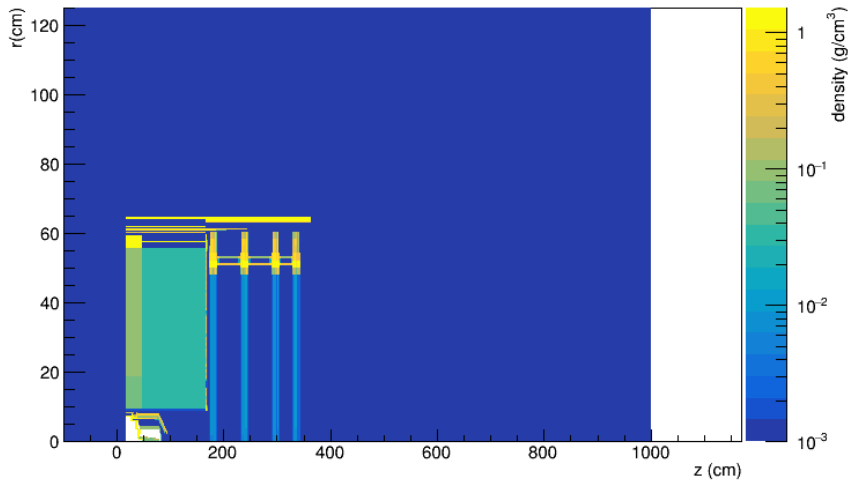
Whole Detector

GlueX

Material Map from FindMatLL(...)

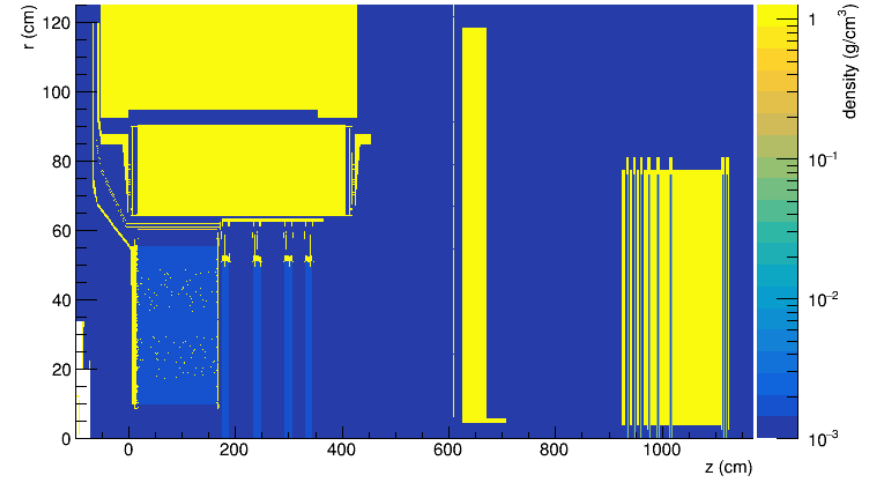


Material Map from FindMatTable(...)

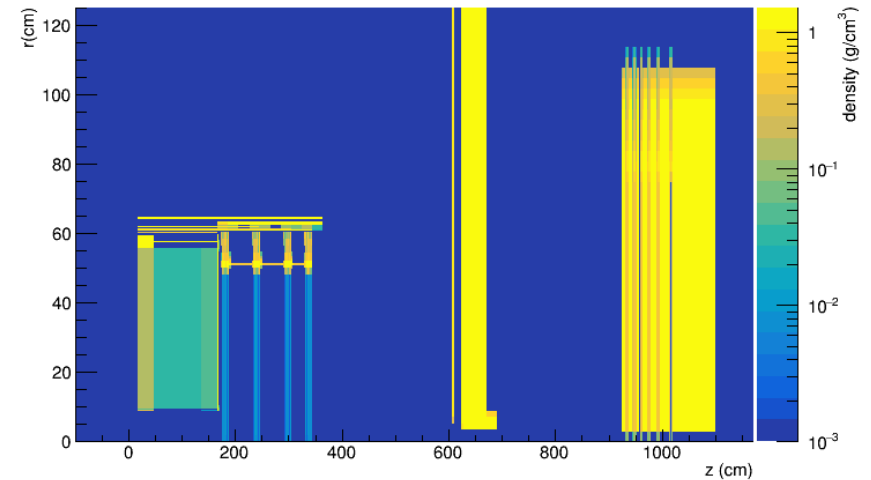


CPP

Material Map from FindMatLL(...)



Material Map from FindMatTable(...)



- Four new maps added for CPP to include TOF, FCAL, and FMWPC regions
- Material map generation procedure updated
 - New python script generates all section maps in parallel
 - All maps may be generated in ~45min as opposed to several hours

<https://github.com/JeffersonLab/sim-recon/tree/master/src/programs/Utilities/mkMaterialMap>