Calorimeter Geometry

current XML description

About the XML

Most of the introductory information about tracker geometry presented at the Tracker Geometry Review applies here.

See http://www-glast.slac.stanford.edu/software/TKR/GeometryReview/TkrGeoReview-jrb.pdf

The heart of the calorimeter geometry description can be found in flightCALOneCal.xml or (only very small differences) flightCALOneCalSegVols.xml, both in package xmlGeoDbs, subdirectory xml/flight.

Missing volumes

- Cylindrical supports

- Side walls

- Bottom ribs

- Mount tabs

For diagrams of what these are and where they belong, see
http://www-glast.slac.stanford.edu/software/detector_description/CAL/CALgeometry.pdf

Simplifications

The frame has been simplified. The actual three frame pieces stacked on the top are represented by a single frame whose thickness equals the sum of the thicknesses of the three and whose outer dimensions equal the maximum of the three (all three already have the same inner dimensions). The bottom is similarly approximated by a single frame.

This means the model contains some extra material around the edges, under and above the side walls.