



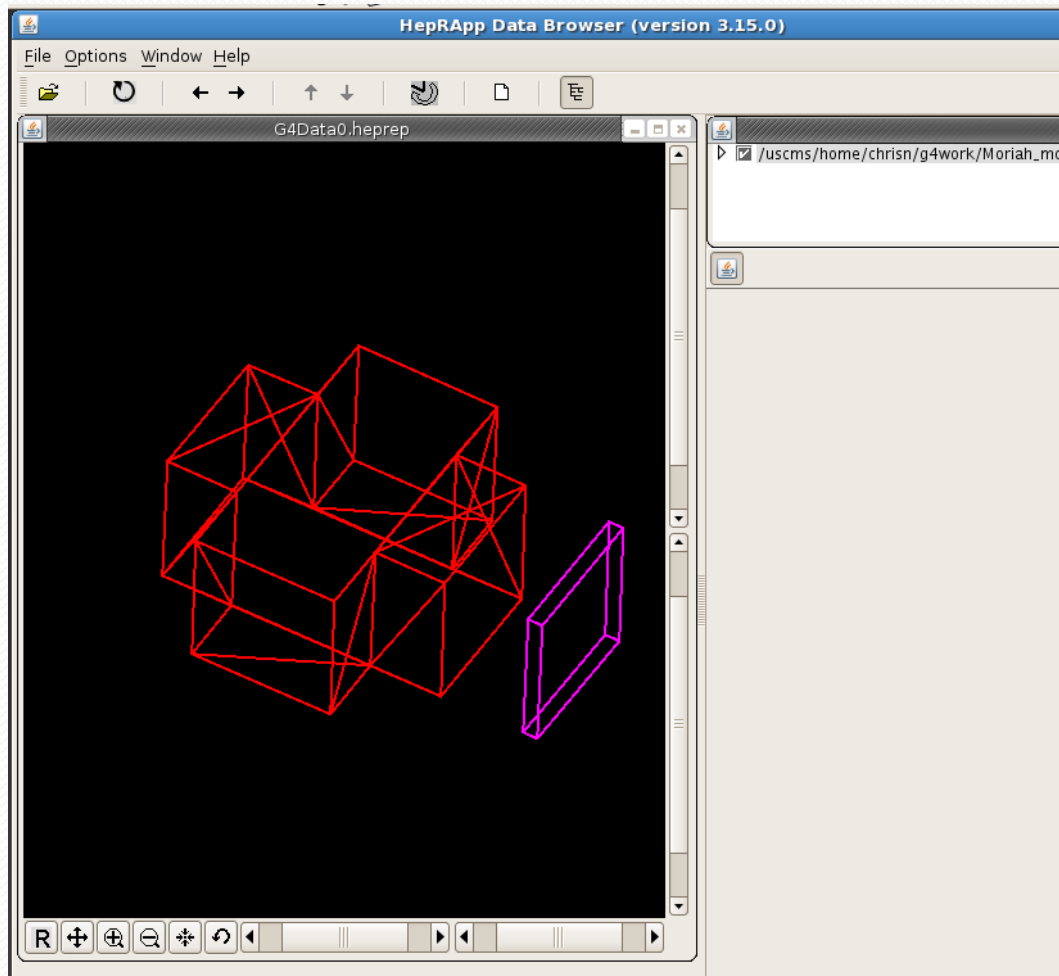
Cherenkov Fast Timing Detectors

Weekly update 07/08/11
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Goals from last week

- Work out exact syntax for L-bar
- Run program with new geometries
- Look at Root analysis of this
- Get test beam analysis to work

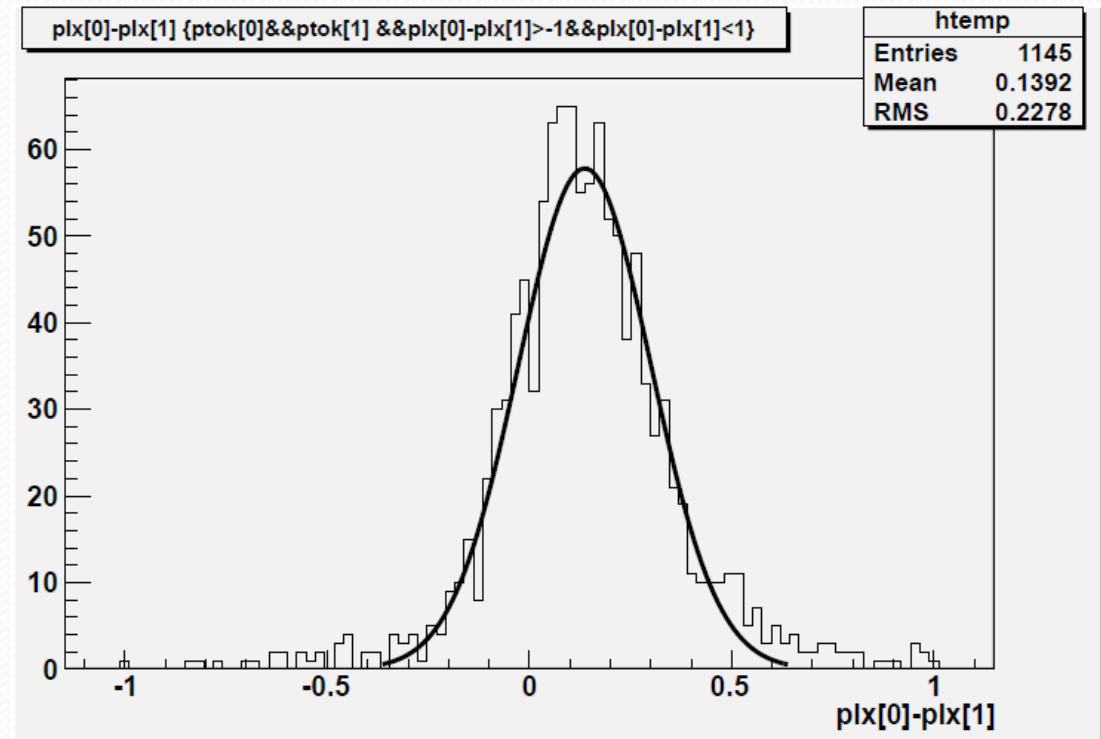
L-bar Construction



- Syntax for joining two bars successful
- Haven't found a way to specify location of components before joining
- Could do with subtraction but addition may make it easier to adjust geometries later
- Geant4 simulation is now (properly) running!

Test Beam Analysis

- Code now runs data files successfully
- Outputs of time difference and pulse height
- Want to look into resolution of channels compared to reference
- Possible pulse height slewing corrections



Distribution of time differences between channels 0 and 1.

Next Steps

- Finish L-bar construction
- (Visualisation of geometry with light rays)
- Run root analysis investigation of properties
- Analysis of time resolutions of test beam data
- Pulse height analysis