

# Alignment: compare to MC

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## Simulation:

- Radiative (exclusive) “A” MC (beam-tri after)
- 2.2GeV, 75MeV mass, 5k events
- SLIC v5.00, v3 detector (note: no fieldmap)
- Simplified readout simulation

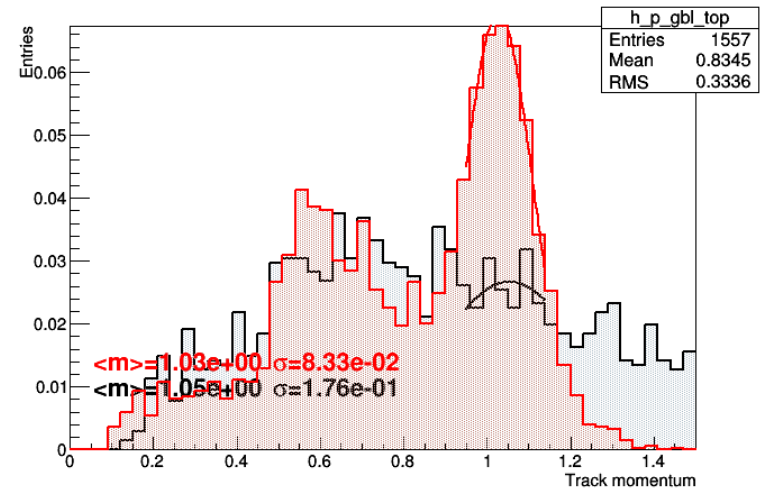
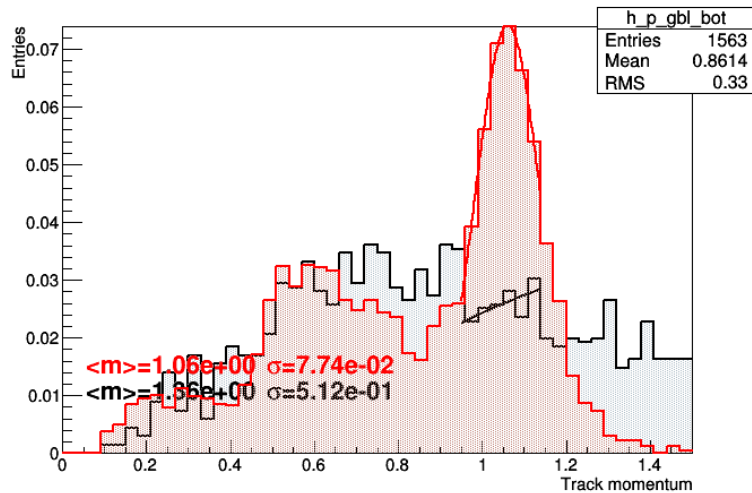
## Data

- v3-4-fieldmap
- Run 5772, ~20k events
- Any trigger

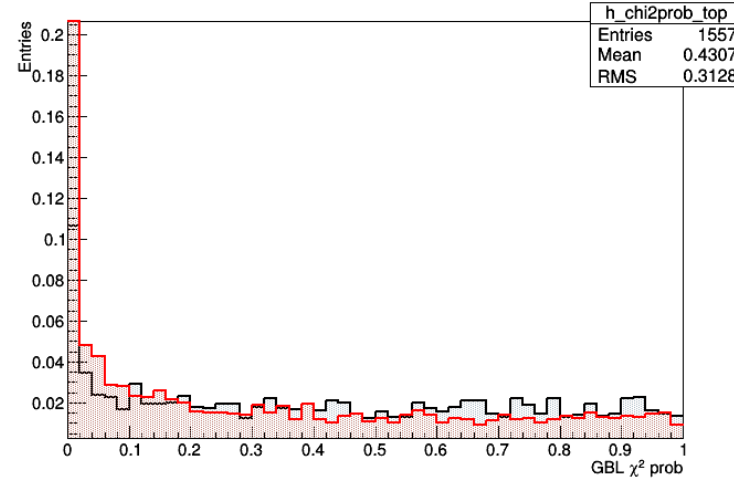
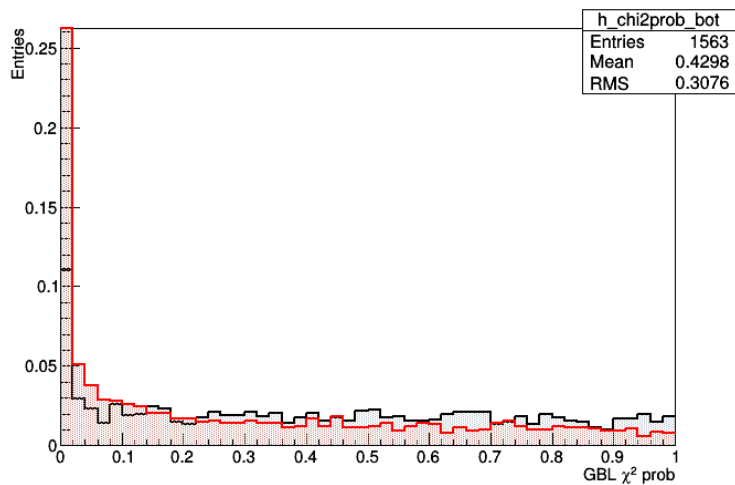
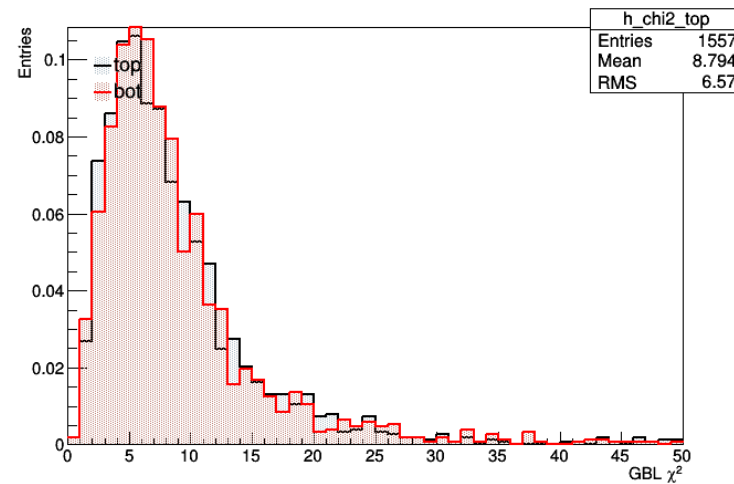
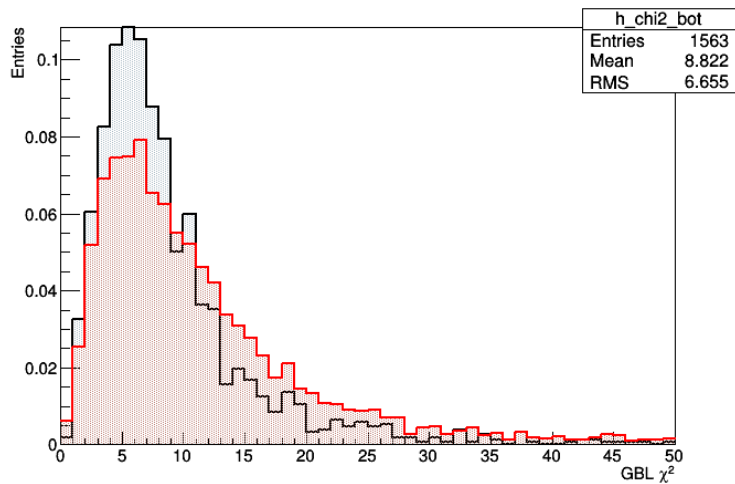
# Description

Track sample are slightly different

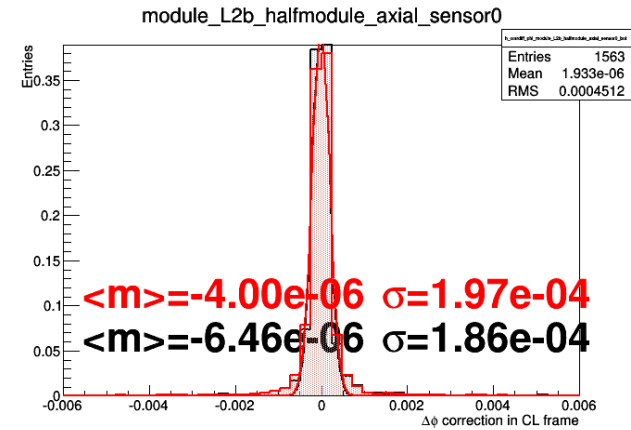
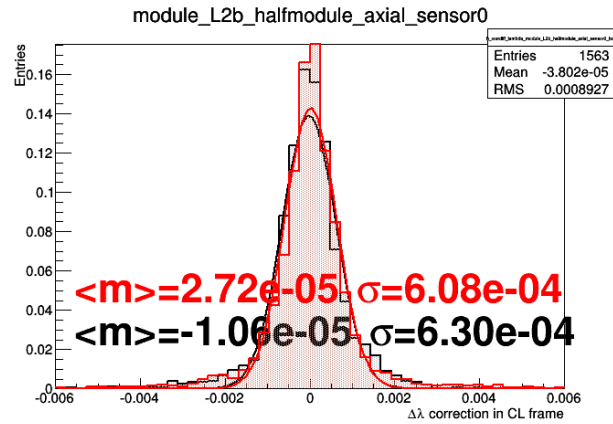
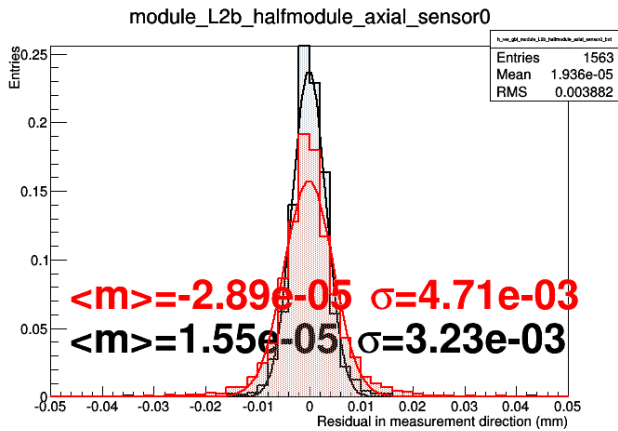
- Momentum harder and no FEE in MC
- Ok as a start



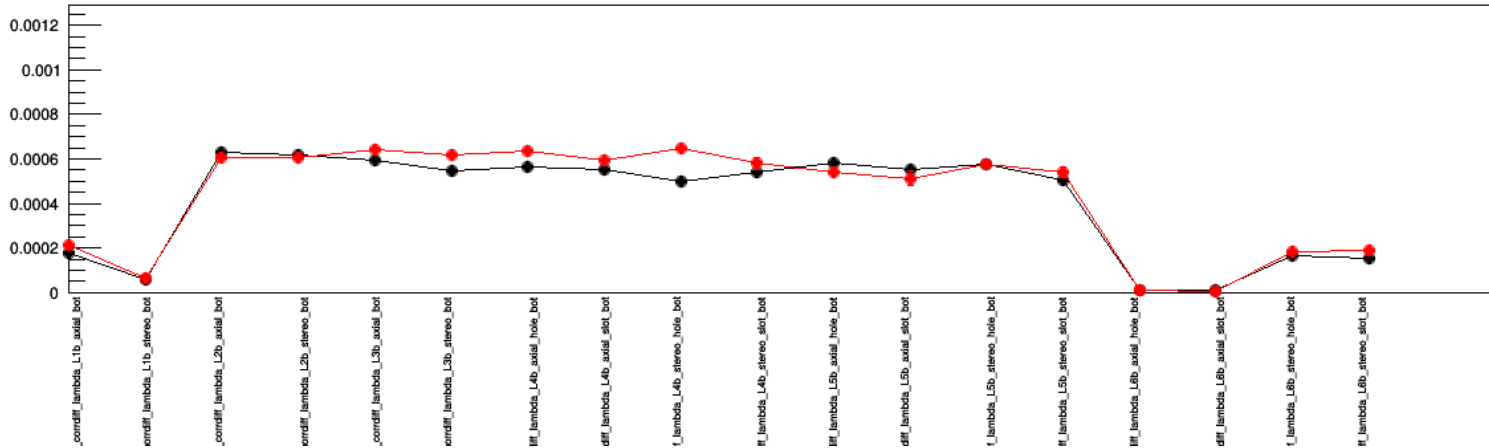
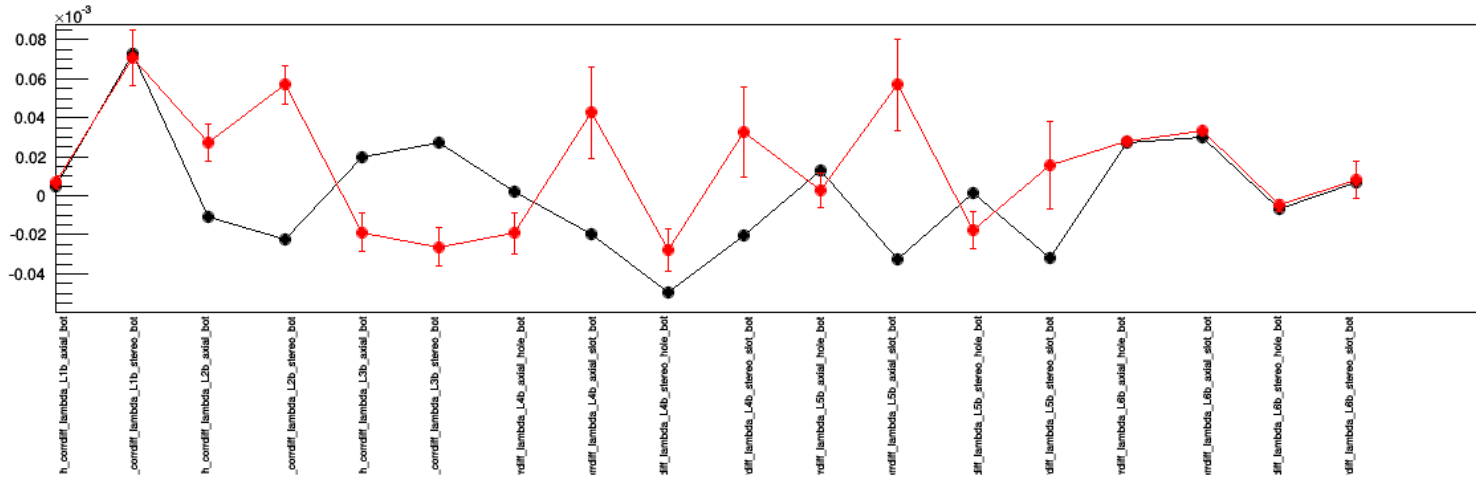
# Chi2



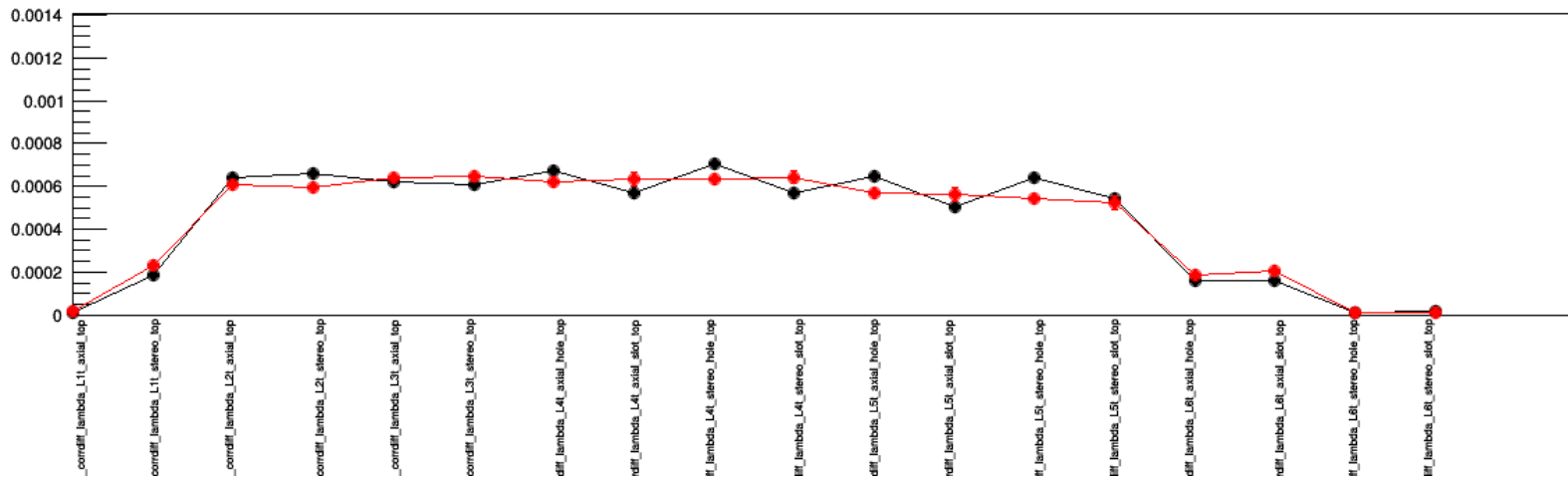
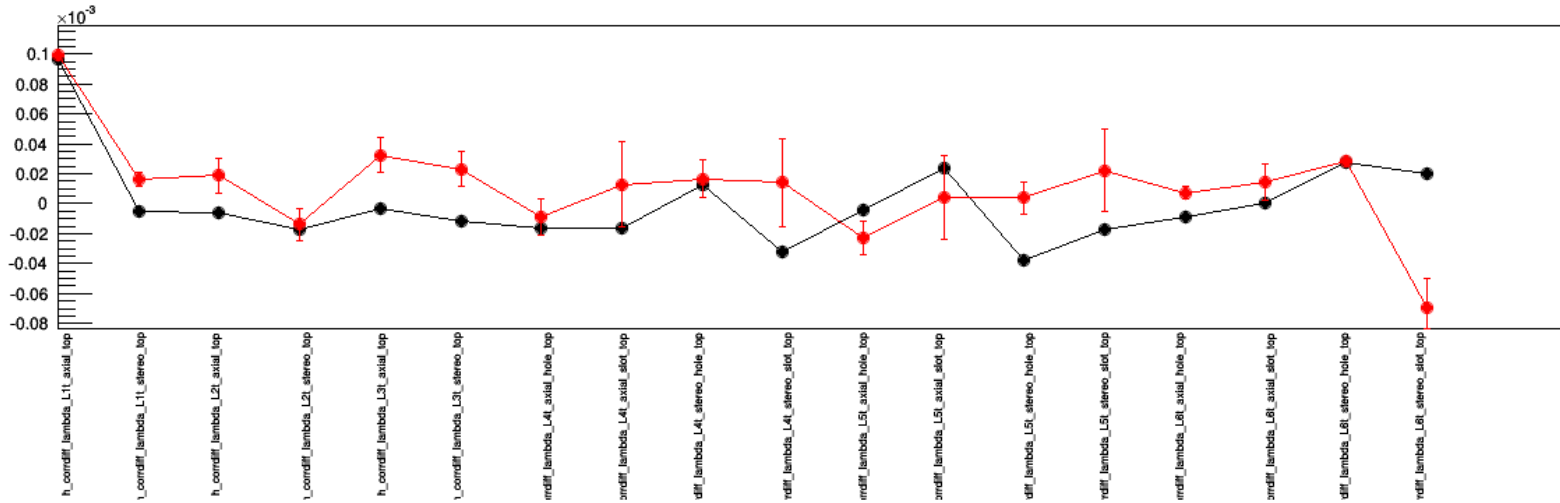
# Examples



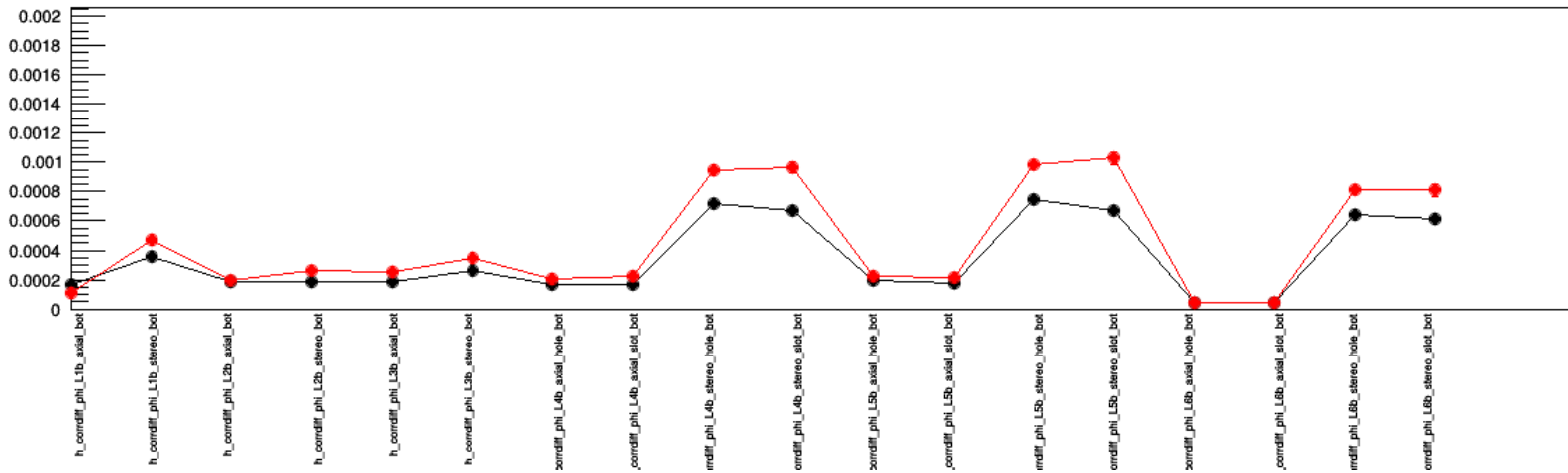
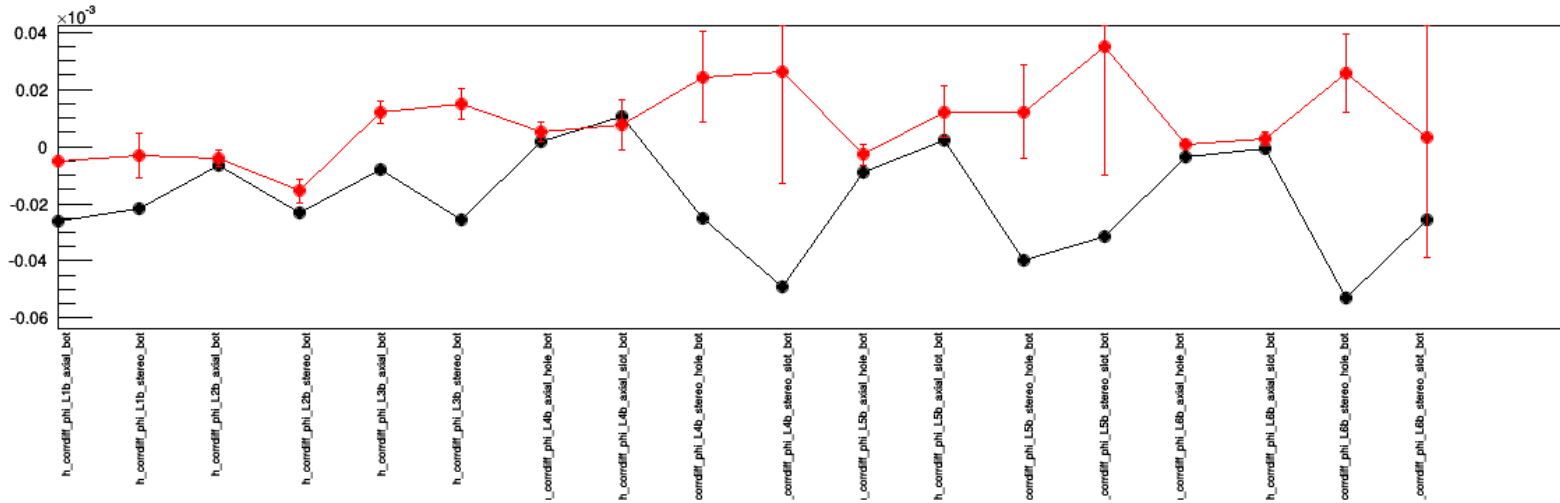
# Lambda bottom kinks



# Lambda top kinks

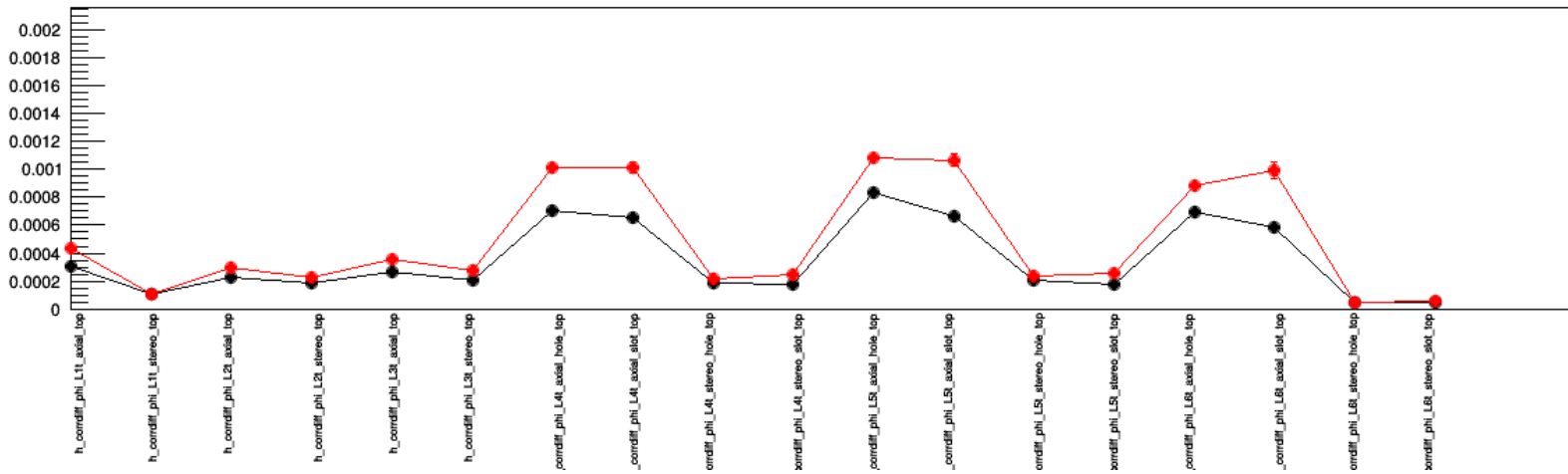
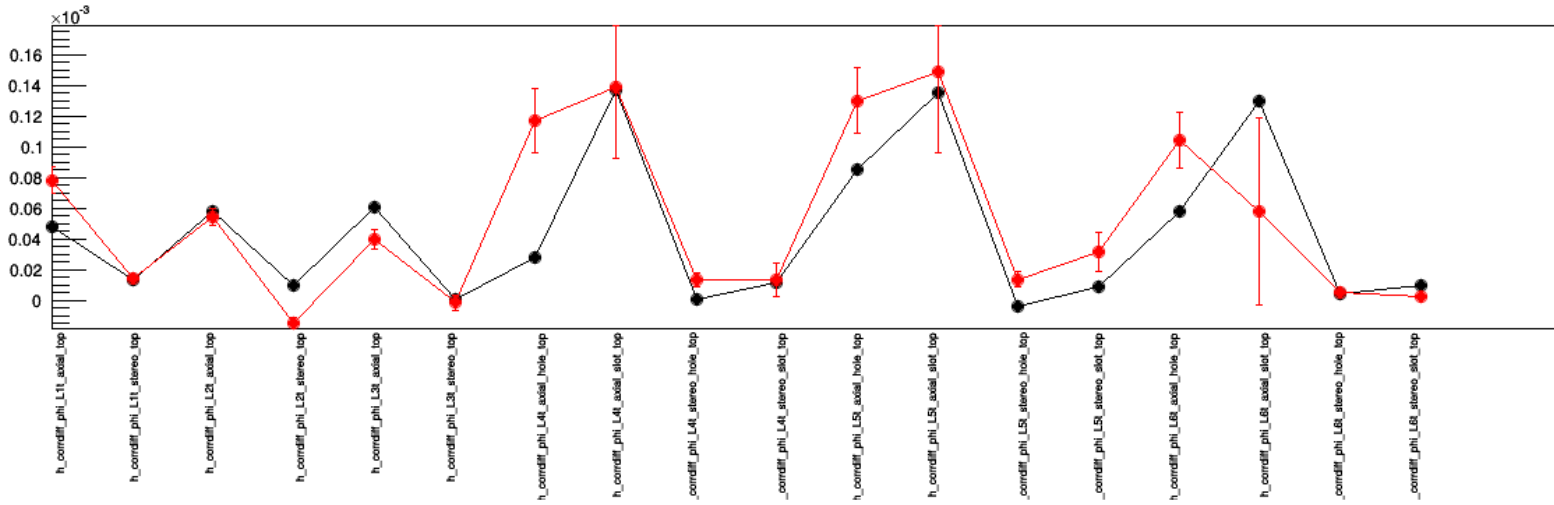


# Phi bottom kinks

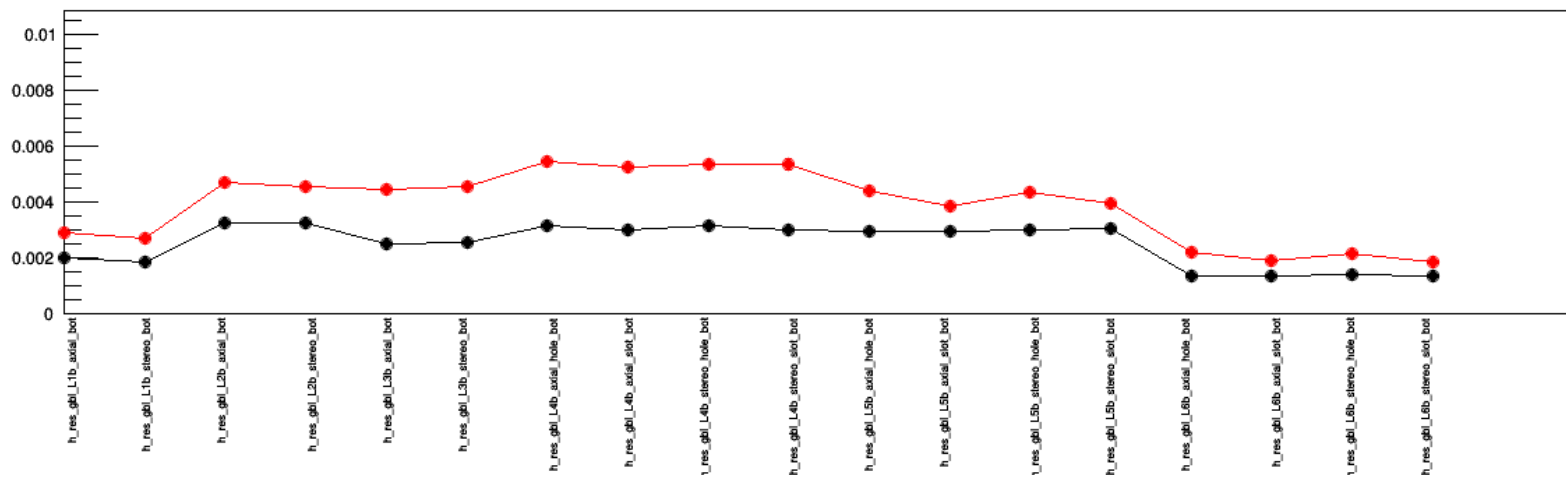
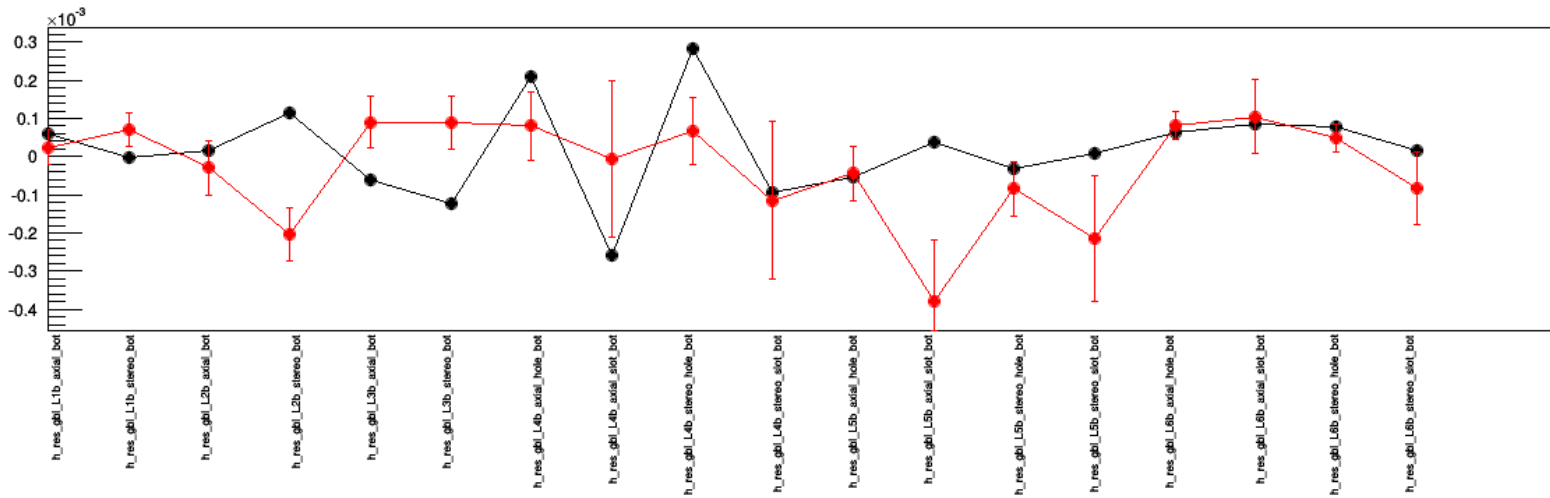




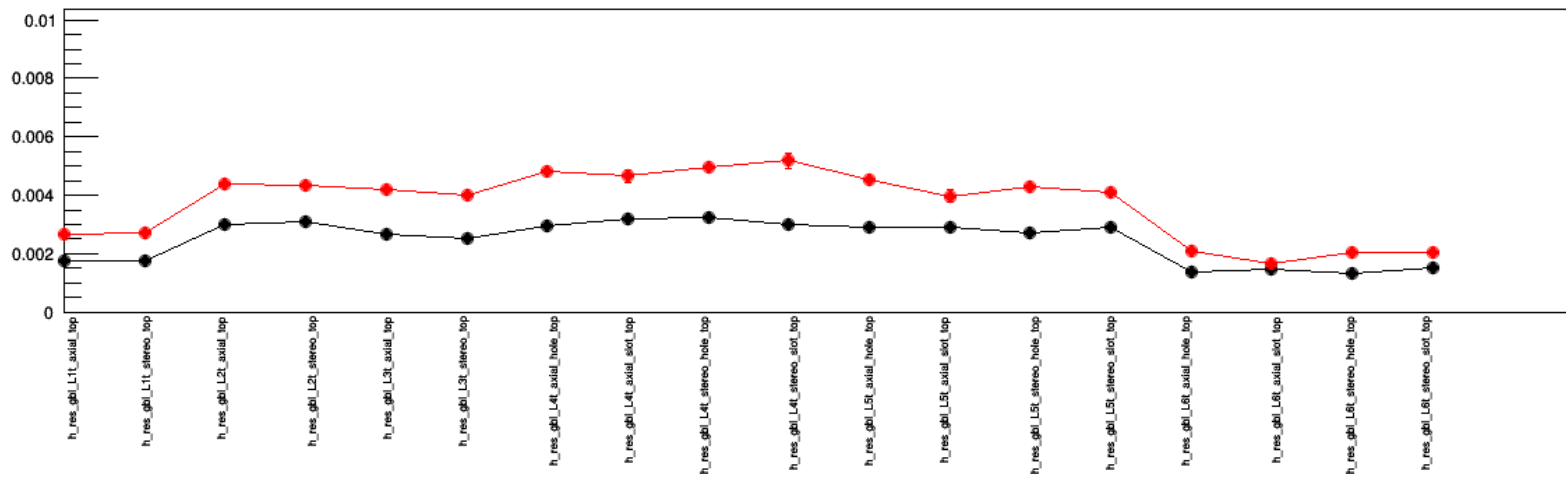
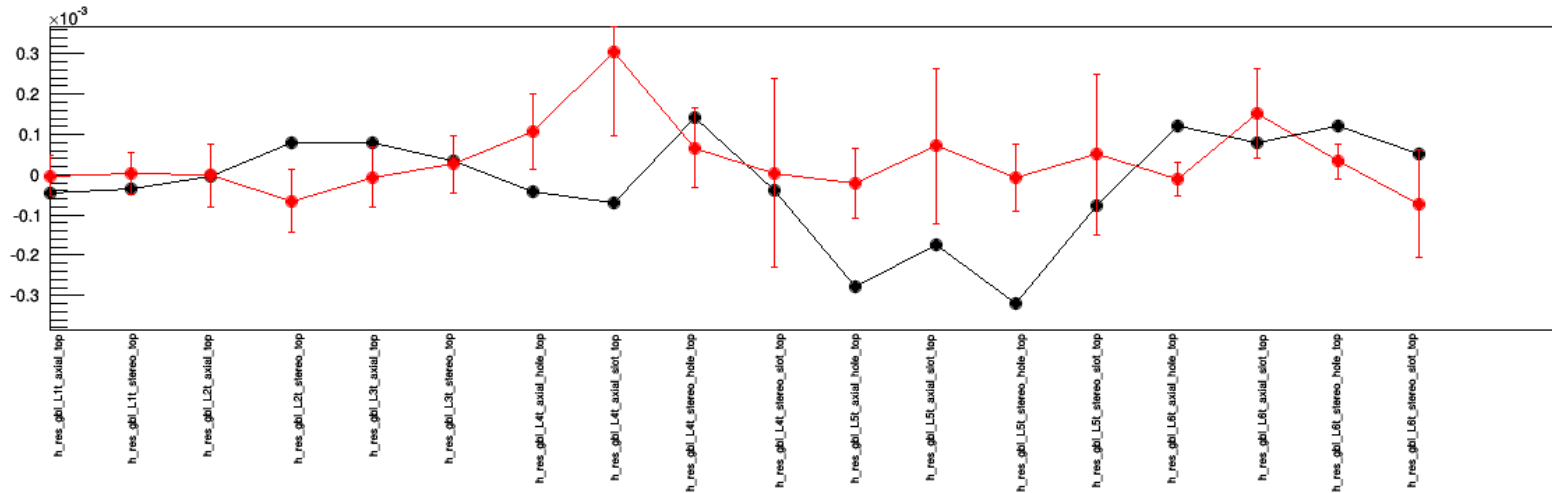
# Phi top kinks



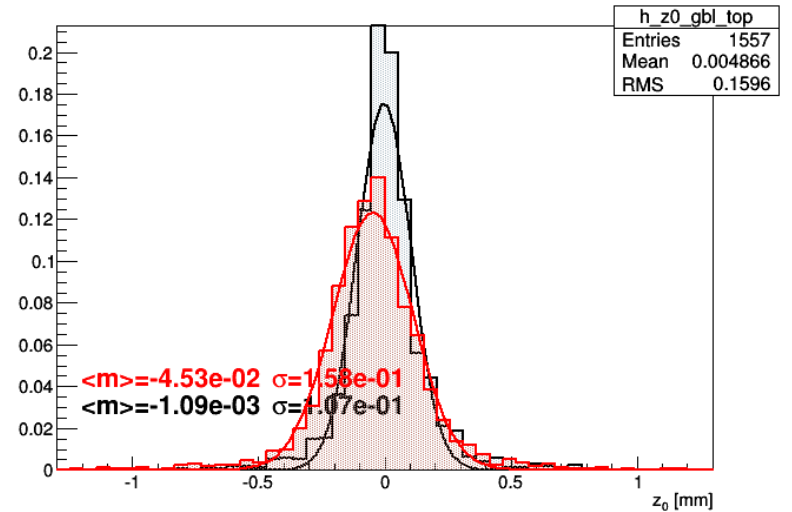
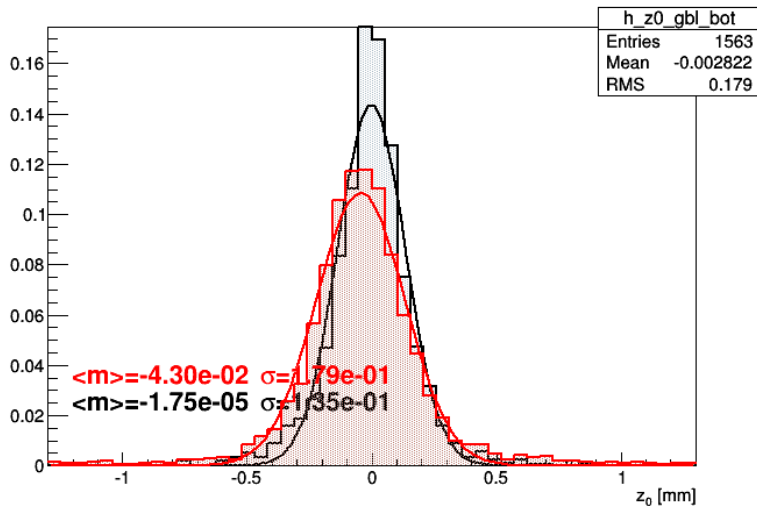
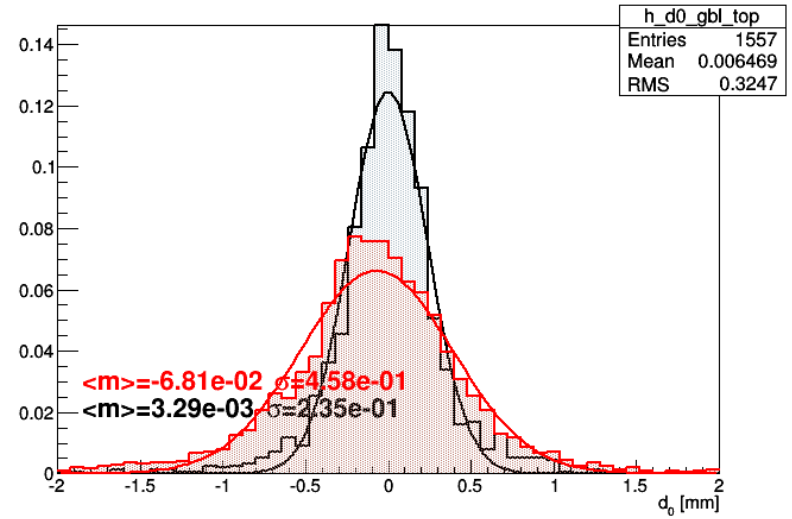
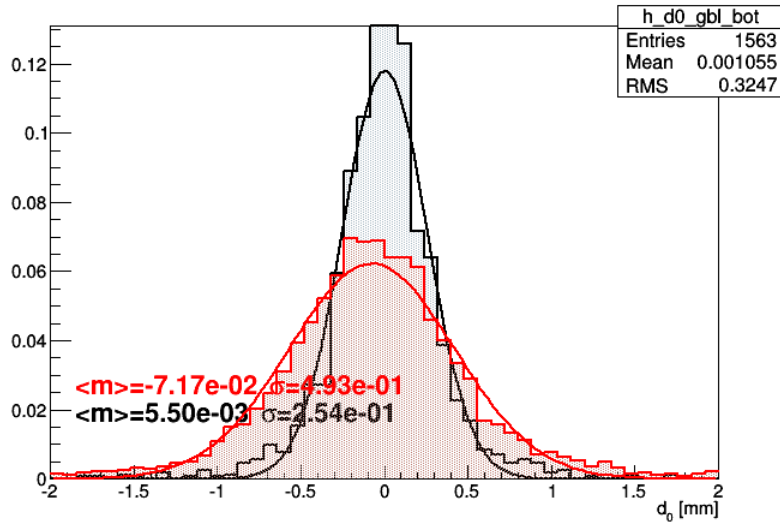
# Residuals bottom



# Residuals top



# Impact parameters



## Simulation:

- 1 Beam-tri SLIC sample file
- Dummy trigger (readout every 100<sup>th</sup> event)
- Single tracking strategy (s345)

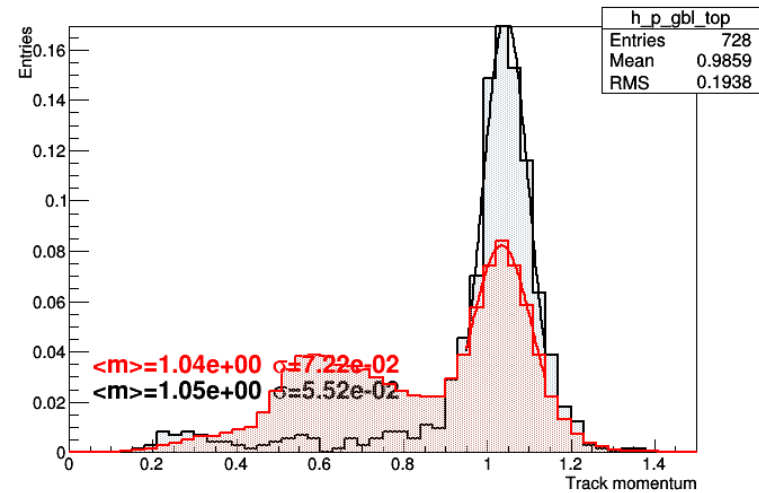
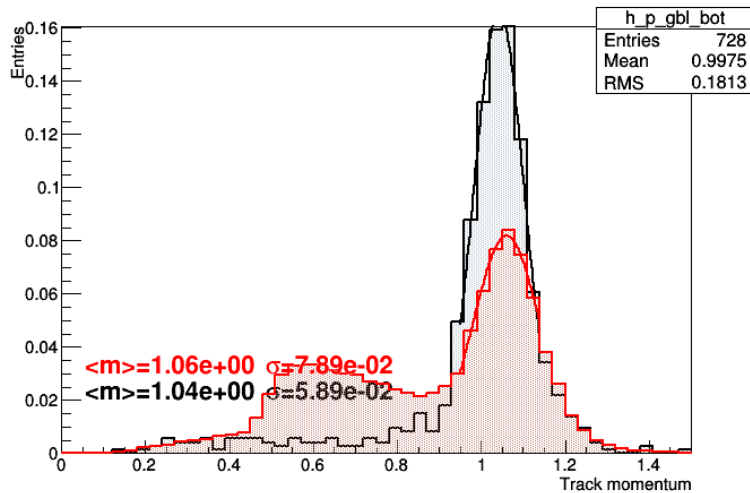
## Data

- v3-4-fieldmap
- Run 5772, all events from .0 file (100k?)
- Any trigger allowed

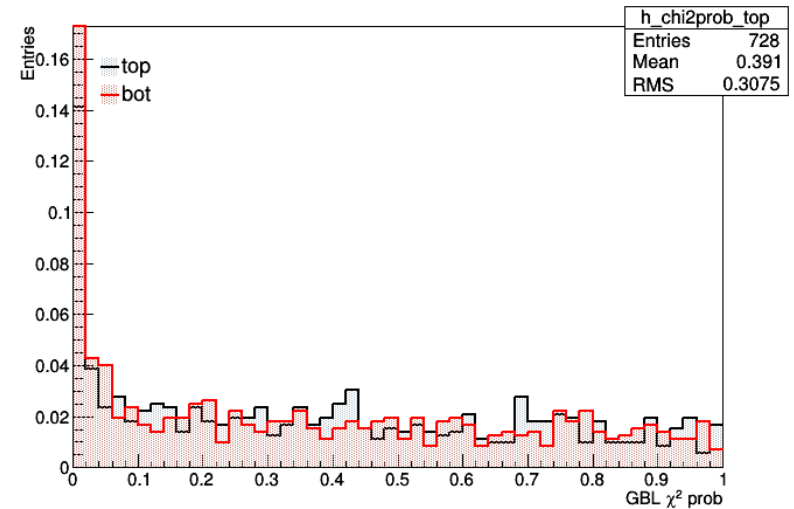
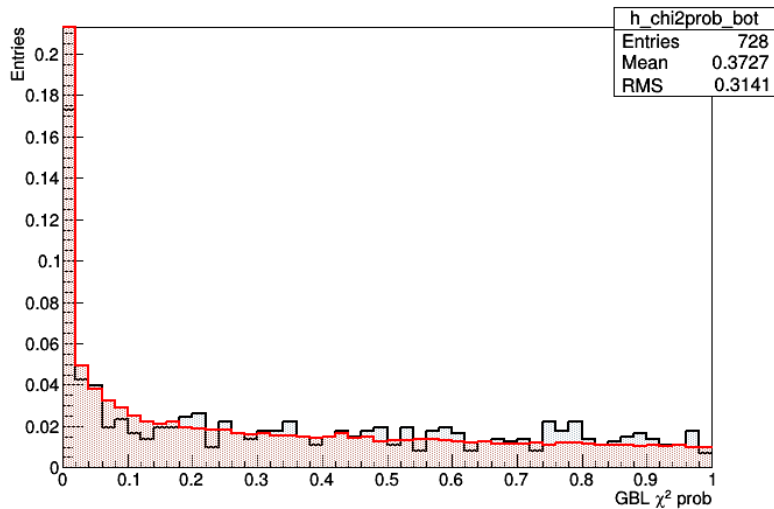
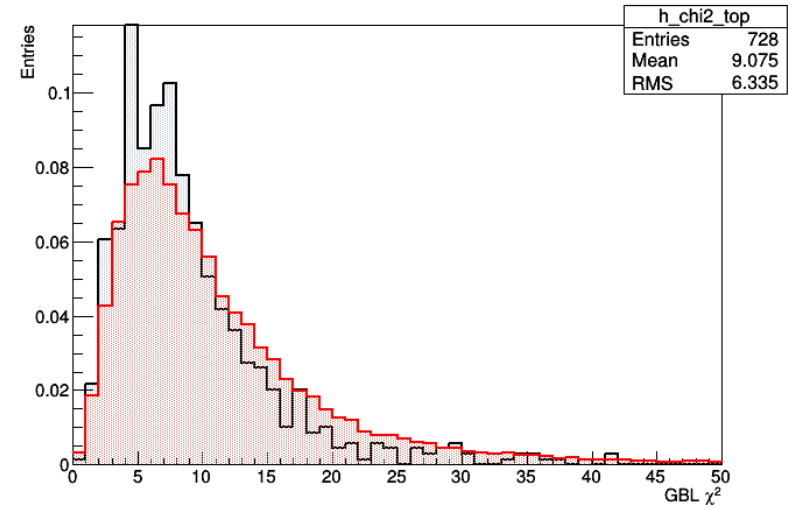
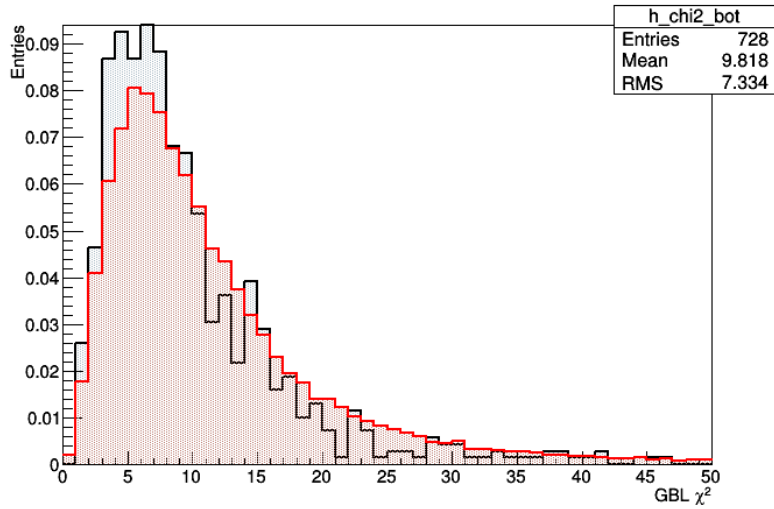
# Description

More low momentum tracks in data

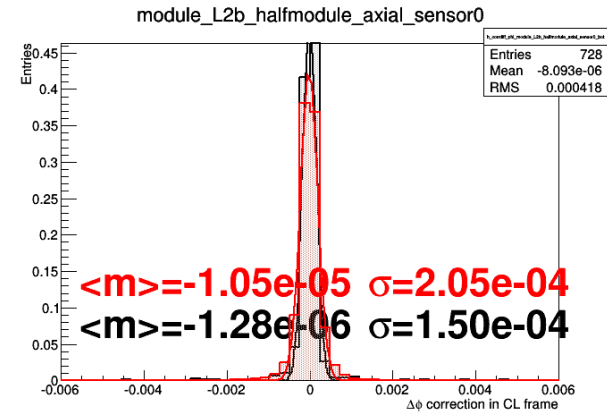
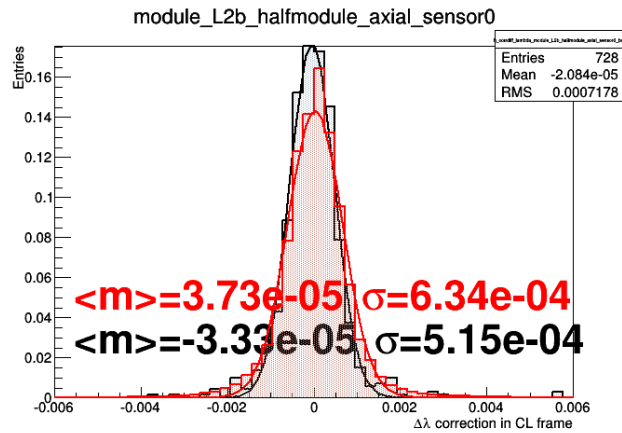
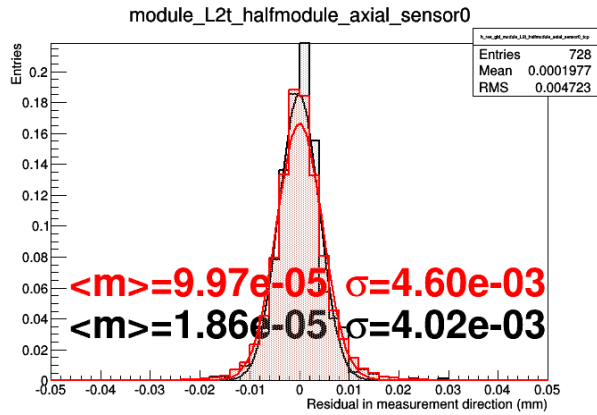
- Data is mostly pair1 triggers
- MC has no trigger bias



# Chi2

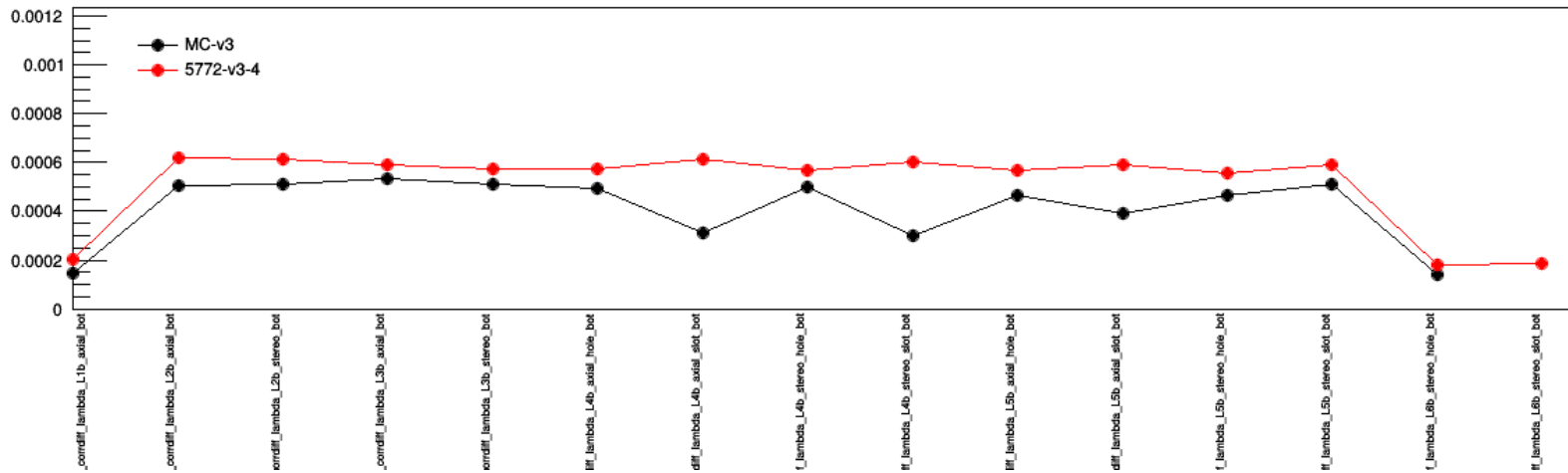
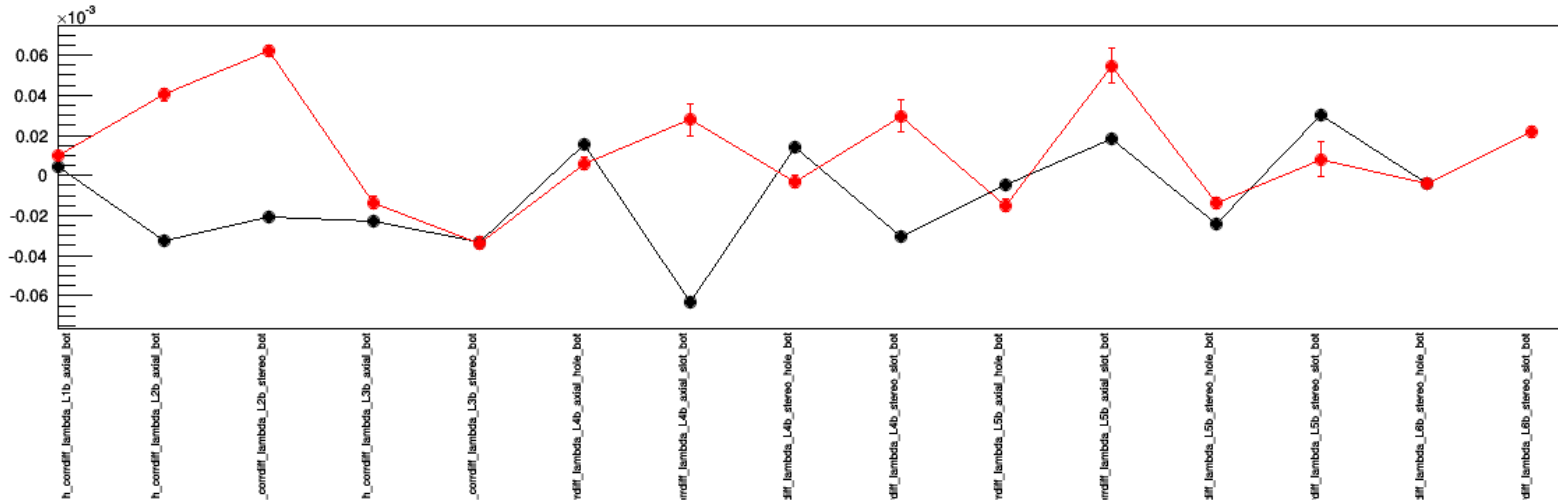


# Examples

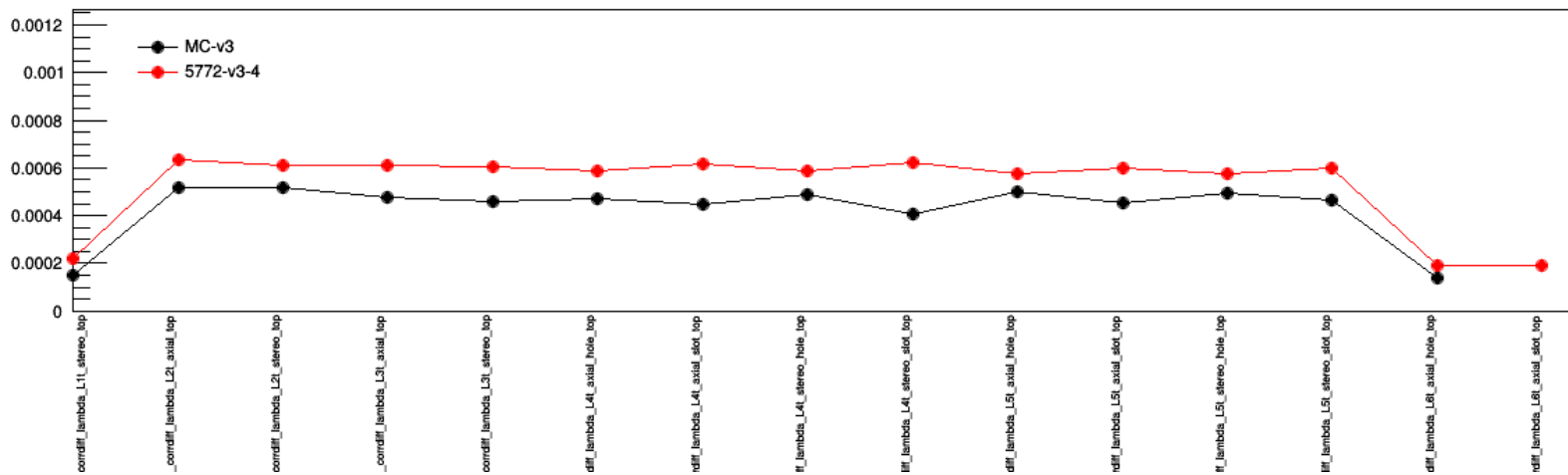
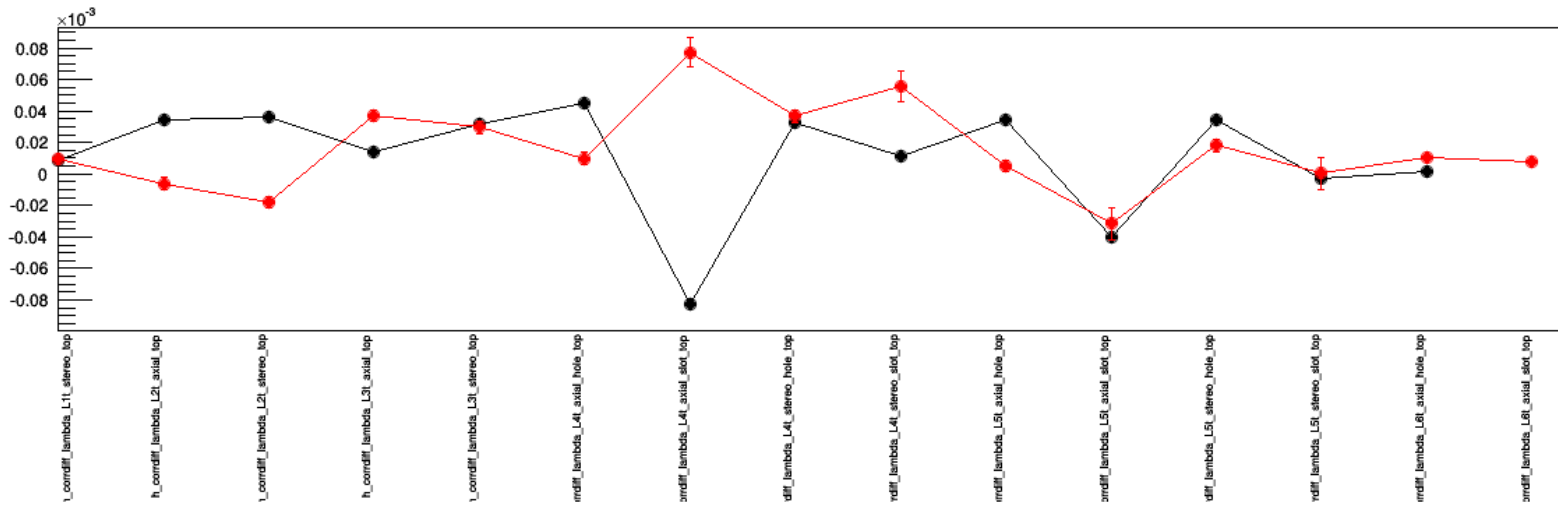




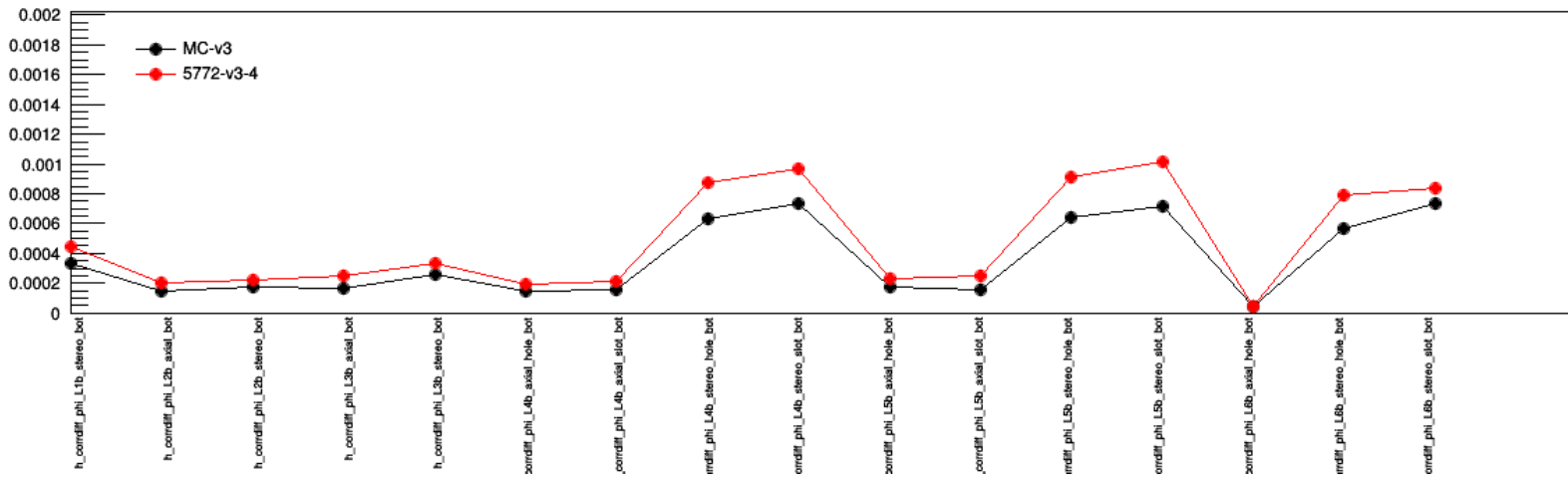
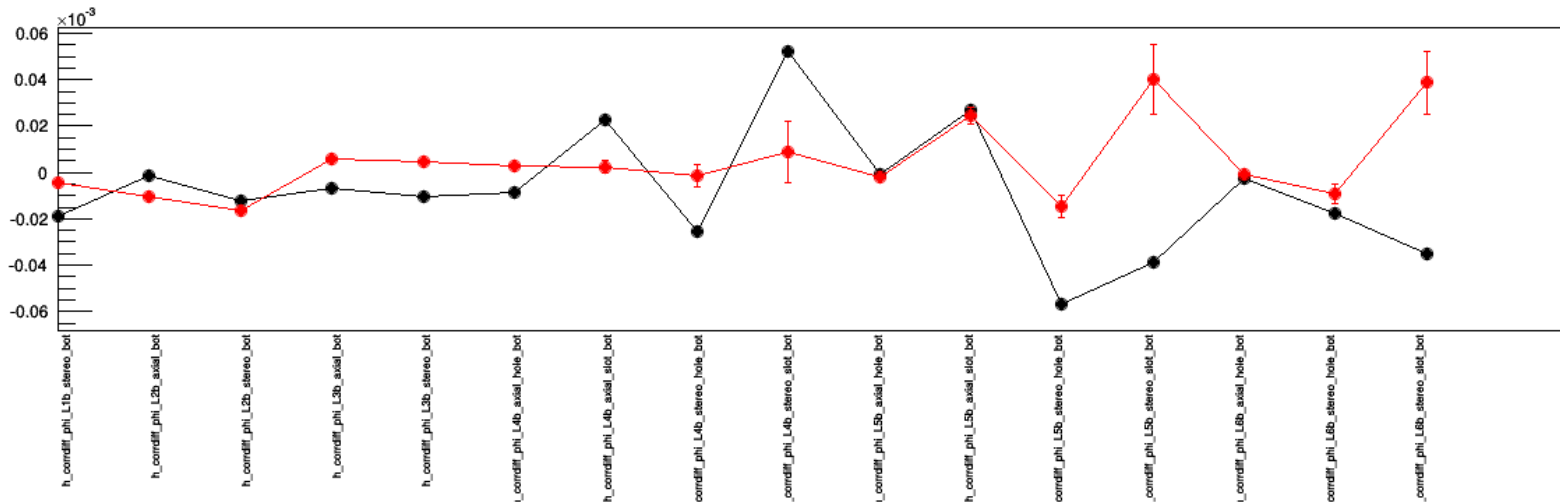
# Lambda bottom kinks



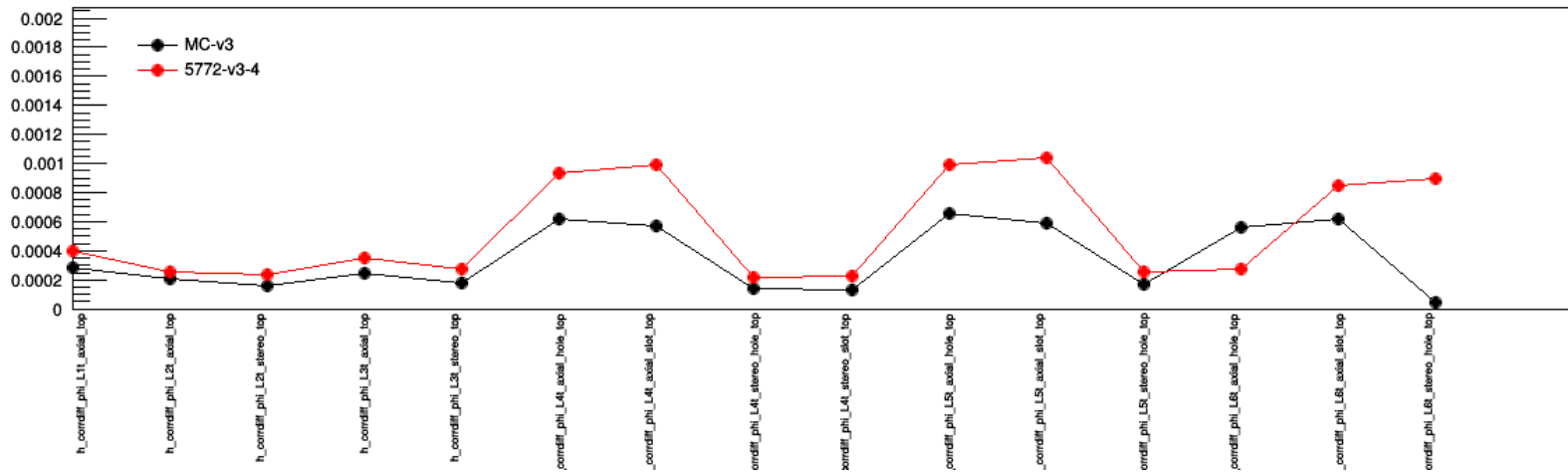
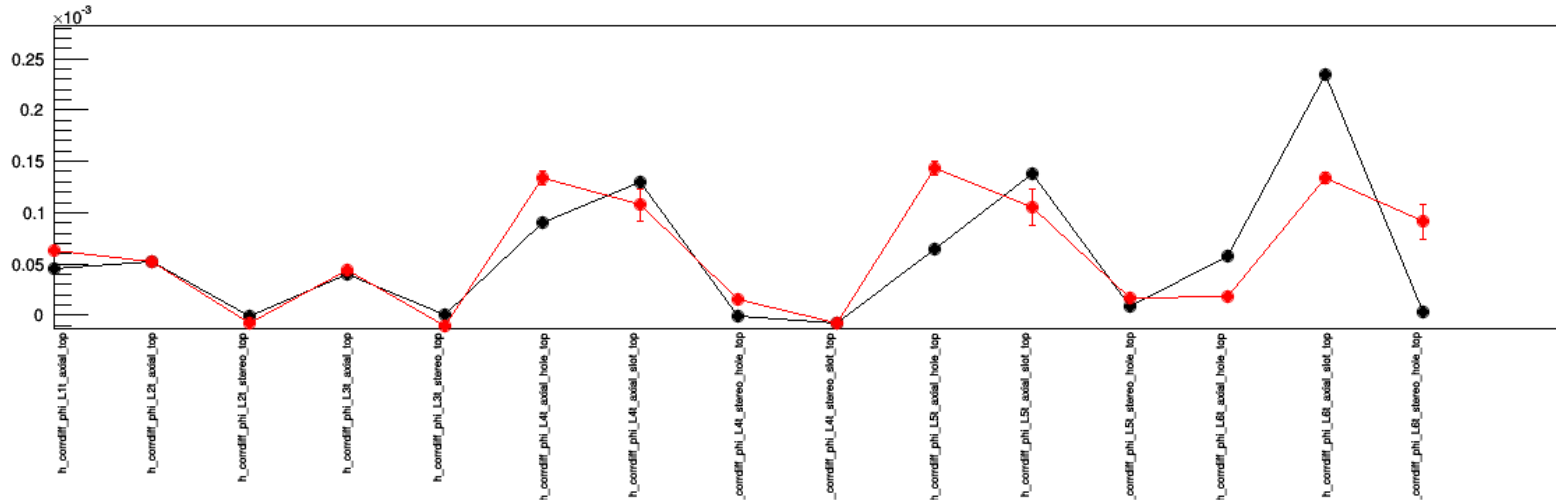
# Lambda top kinks



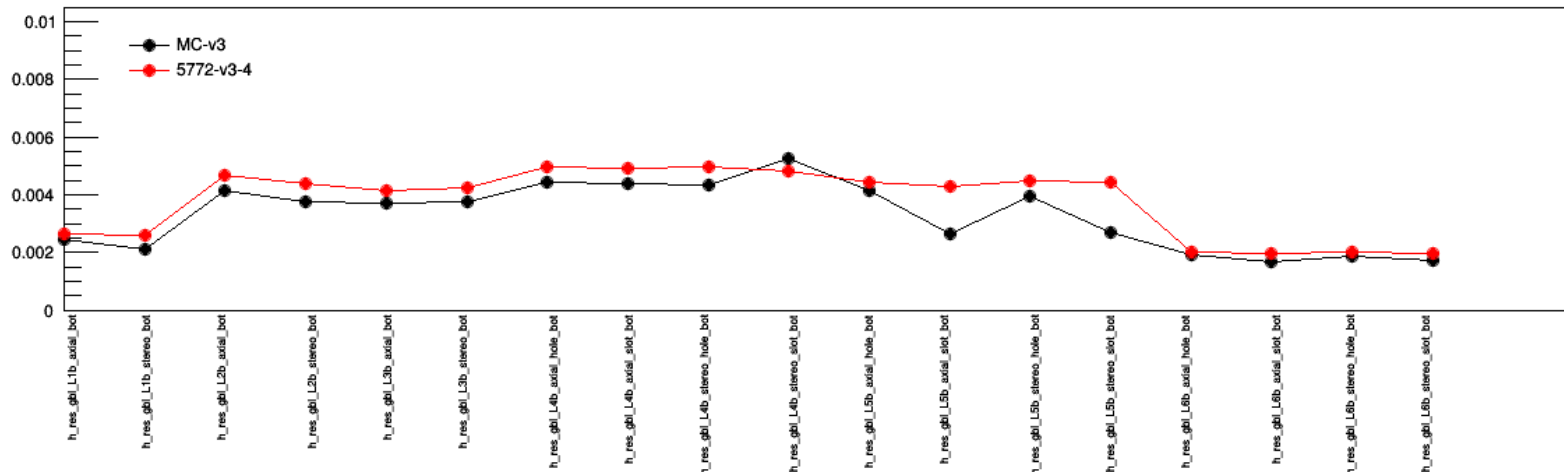
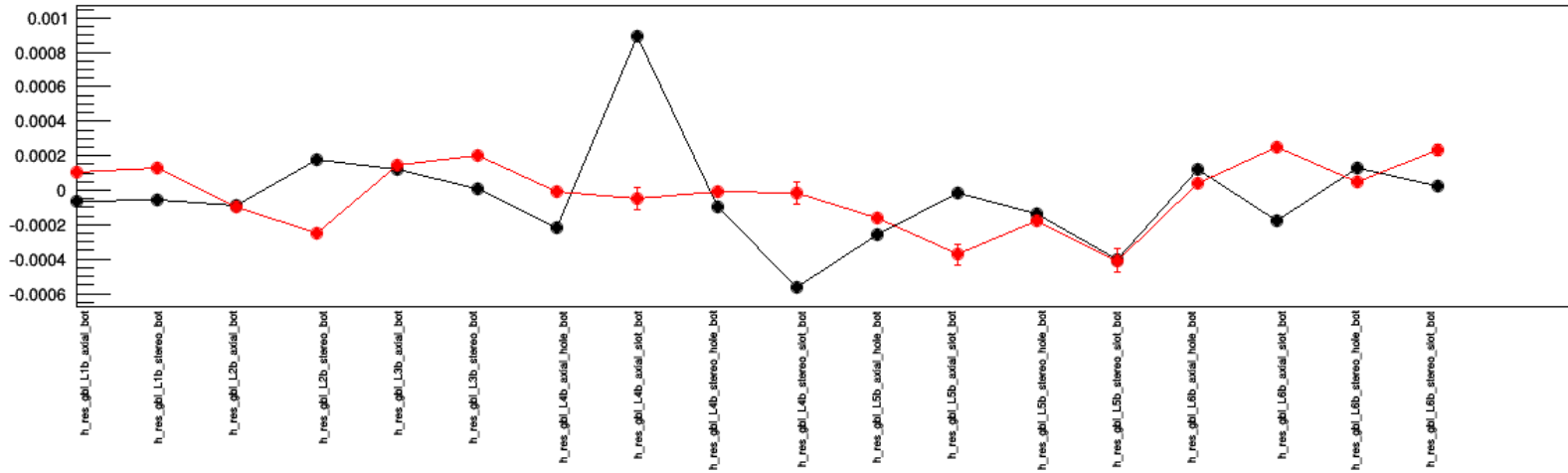
# Phi bottom kinks



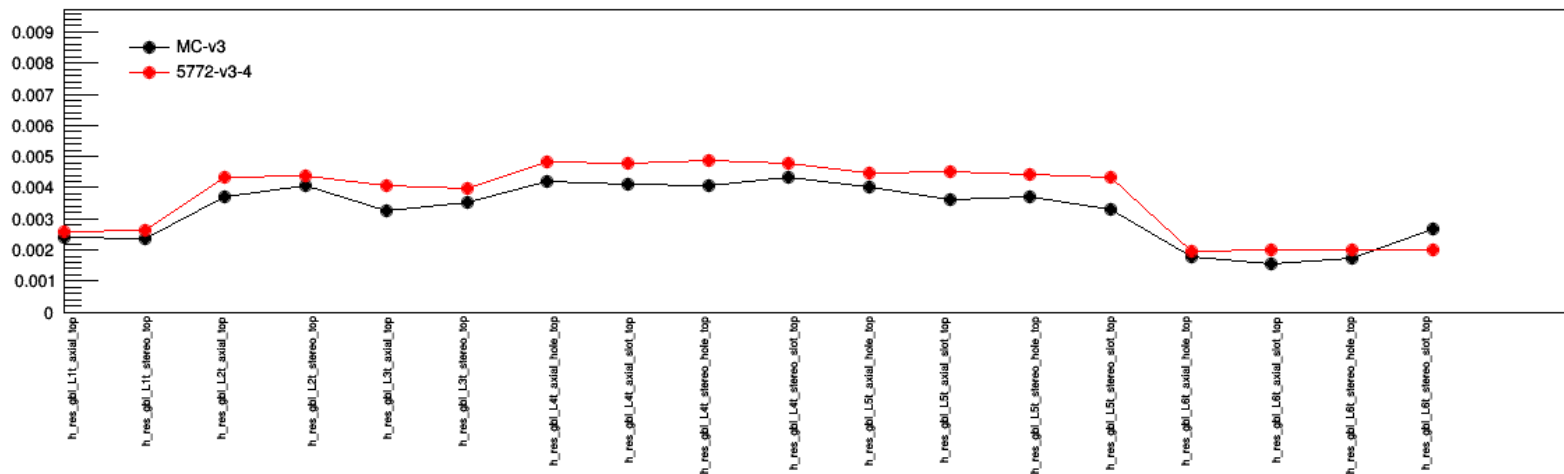
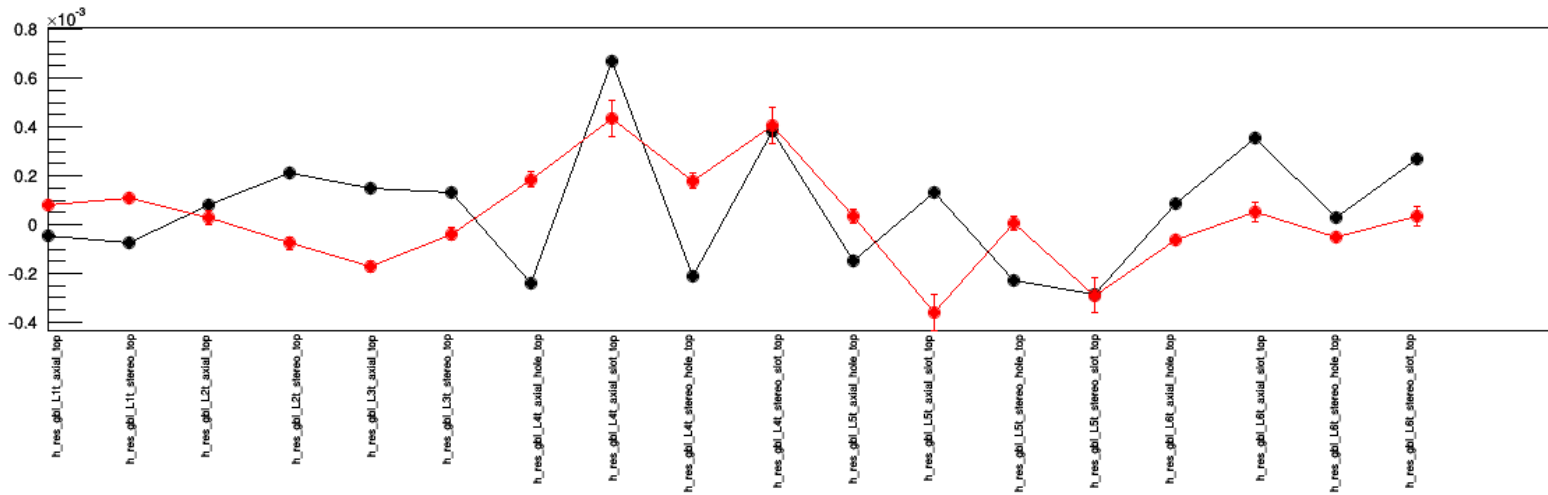
# Phi top kinks



# Residuals bottom



# Residuals top



# Impact parameters

