

# Multiple Coulomb scattering analysis: Status

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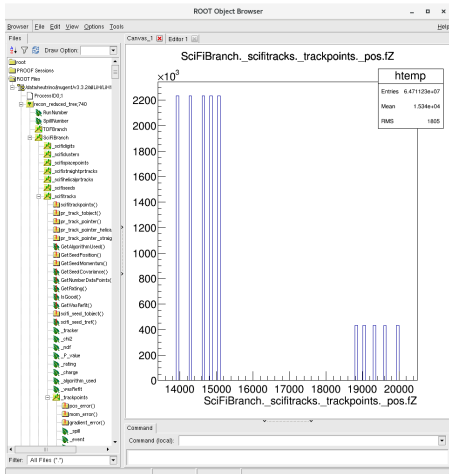
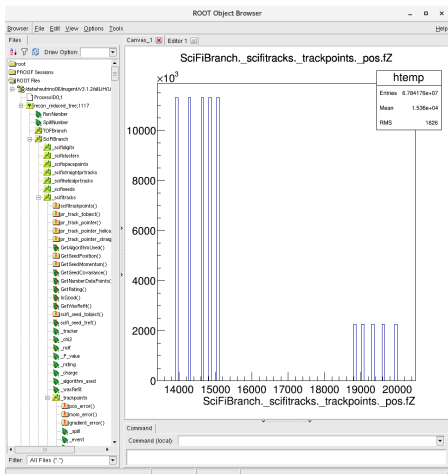
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# Current Issue

- Discovered issue for data in v3.3.2 production
  - ▶ 100% of particles fail cuts
- Spent some time investigating TOF distributions - false trail
- Selection requires 1 TOF1 sp and 1 US track
- Implicit cut - require z co-ordinate for US track trackpoint
- Given that there is a track and trackpoint seemed like a safe assumption

# Old vs new



## Underlying issue and solution

- Where are all missing tracks?
- All have x, y & z co-ord as NAN
- Without a z co-ordinate the track cannot be propagated DS and included in selection - 100% of tracks fail cuts
- What has changed v3.1.2 to v3.3.2?
- TOF-tracker refitter turned on
- Thanks to Paolo was able to do quick test - reprocessed data look good
- Full reprocessing of all analysis data requested on 13/1/20
- Completed on 3/2/20 - Many thanks to Paolo and Dimitrije for their efforts

## Current job list

- Downloaded new data on Monday
- Reduced (applied lowest level selection TOF1 sp) on Tuesday
- Ran analysis on Wednesday
- Had a look at plots this morning - looks sensible
- Preparing new version of Note - new plots and tables
- Will sent to referees in coming days