

INTT cosmics analysis update

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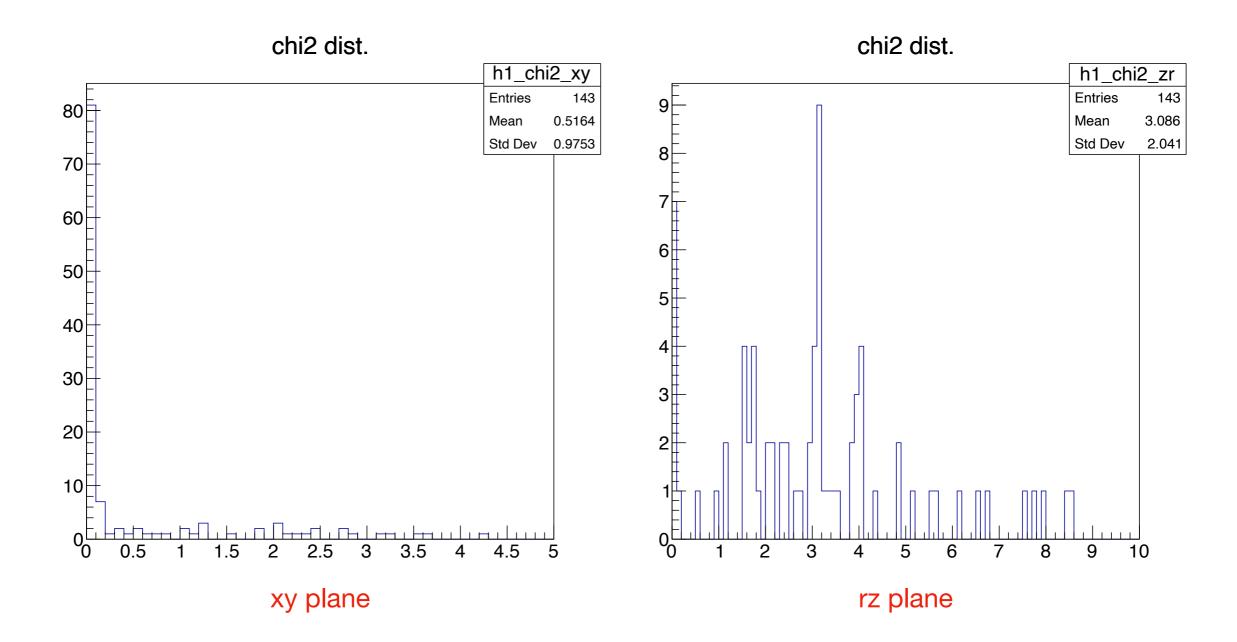
Cosmic Analysis updates

- Check the comic tracks quality (using run39468, vertical trigger)
 - Tracks fitting quality
 - Tracks slope
- There are some cosmic simulation we might can study for
 - /sphenix/lustre01/sphnxpro/mdc2/cosmic/nopileup/trkrhit/run0016/ magnet_off

Cosmic tracks check

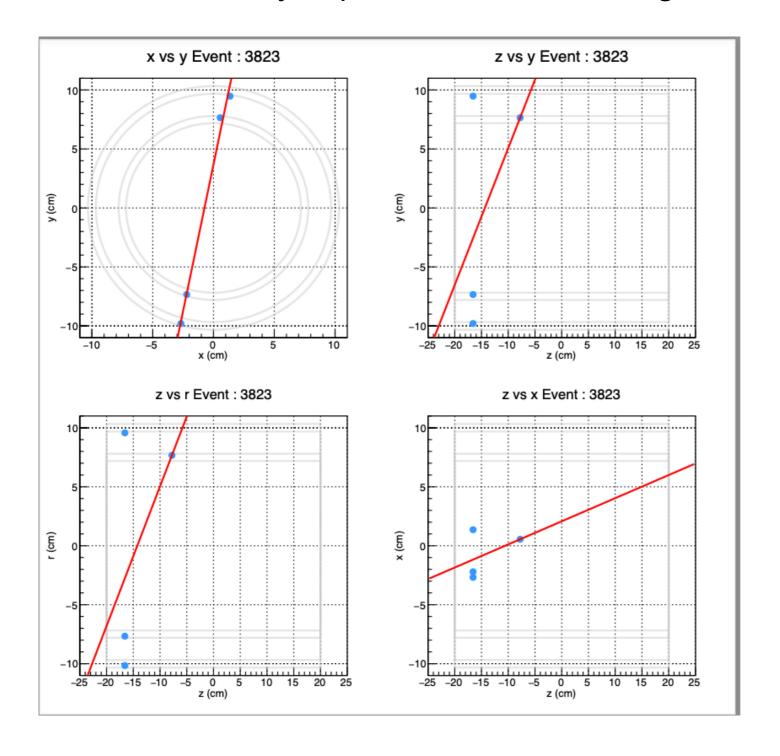
(run 39468)

- The cosmic tracks are fitted with a straight line, y = ax + b
- χ^2/ndf distribution of the tracks



Tracks display

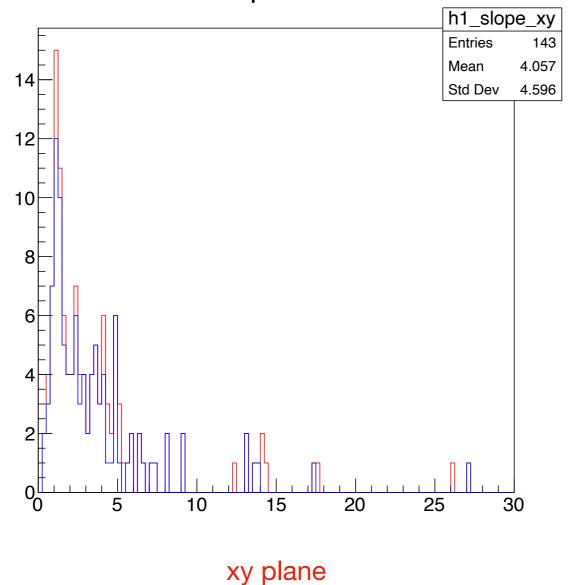
Potential reason why zr plane has worse fitting



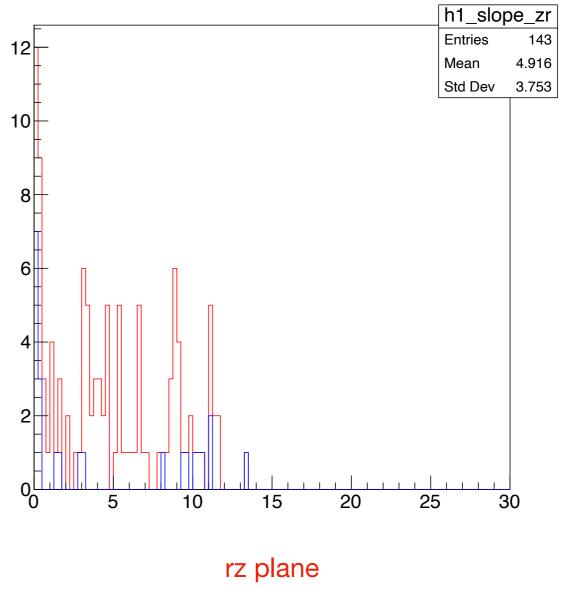
Cosmic tracks check

(run 39468)

- The fitted slope of the cosmic tracks
 - Red: w/o chi square cut
 - Blue: w/ chi square cut $(\chi^2/ndf < 2)$ slope dist.







Summary

- Check the cosmic tracks quality of a run
 - Some criteria needs to be established whether this is a good run for cosmic analysis
- Cosmic simulation may help for this

Back up

Tracks display

We might also want to keep this kind of event



