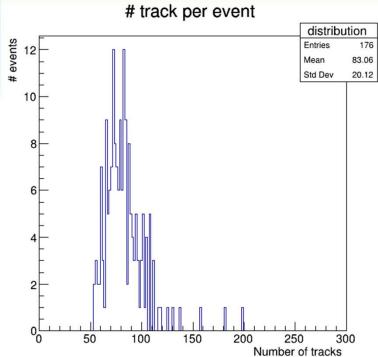
## Cosmic run data: number of root files and storage required

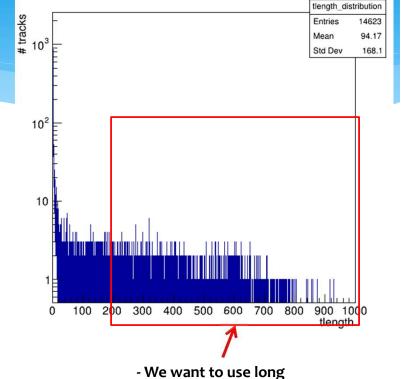
May 25<sup>th</sup>, 2023

Rado Razakamiandra, University of Antananarivo

Advisor: David Martinez

## Distribution of the track number per event and track length: cosmic run6201, four root files

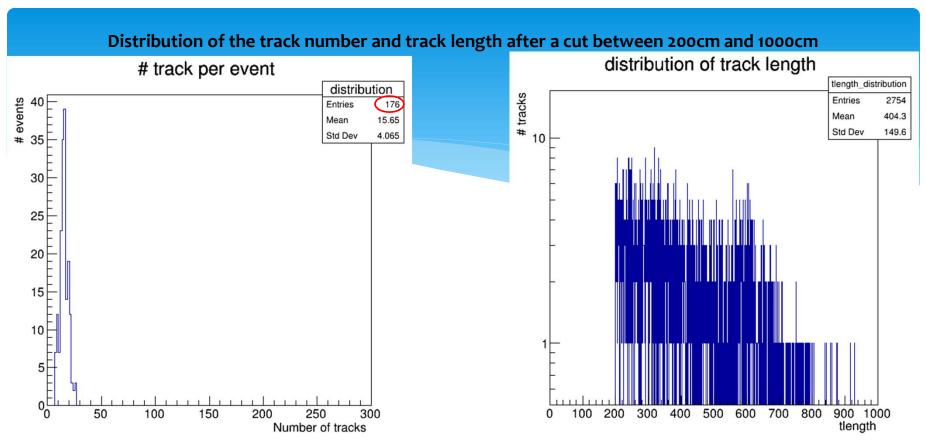




tracks only

distribution of track length

- Four root files have 176 events
- Number of tracks per event: 83 on average(short + long tracks)



- Each of the 176 events has at least 5 long tracks
- Size of the four root files: ~160MB
- Size of the data in json format is about 347MB

Number of root files required to get 1000 events: 24 Storage required on the server: 347MB \* 6 = 2082 MB

## **Next steps**

- Look at cosmic MC
- Determine the number of root files and storage required if we want to use 1000 events