

# GTU simulation

## Purpose

- Make a trigger decision and write it into the raw data (is it called GTUlinkmask?)
- Simulate GTU behavior (calculate efficiency)

## Currently

- AliTRDItuTracklet – Tracklet container
- AliTRDgtuTrack
  - Method to make GTU tracks (input: LTU tracklets from AliTRDItuTracklet )
  - At the same time GTU track container
- AliTRDTriggerL1
  - Method to make TRD lvl1 trigger decision (Get an input from GTU track container )
- AliTRDTrigger: kind of supervising
  - Interface to ask 'make tracklets' to AliTRDmcm and AliTRDmcmTracklet, 'make GTU tracks' to AliTRDgtuTrack

## New

- AliTRDItuTracklet – Tracklet container (Do we just get rid of it and use AliTRDmcm as a container?)
- AliTRDgtuTracker
  - Method to make GTU tracks (Get inputs from AliTRDmcm (or AliTRDItuTracklet)))
- AliTRDgtuTrack - GTU track container
- AliTRDTriggerL1
  - Method to make TRD lvl1 trigger decision (Get an input from GTU track container )
- AliTRDTrigger: supervising (touch down to GTU level but not to MCM level)
  - Interface to ask 'make GTU tracks' to AliTRDgtuTrack
  - Generate GTUlinkmask by asking TRD lvl1 decision to AliTRDTriggerL1?