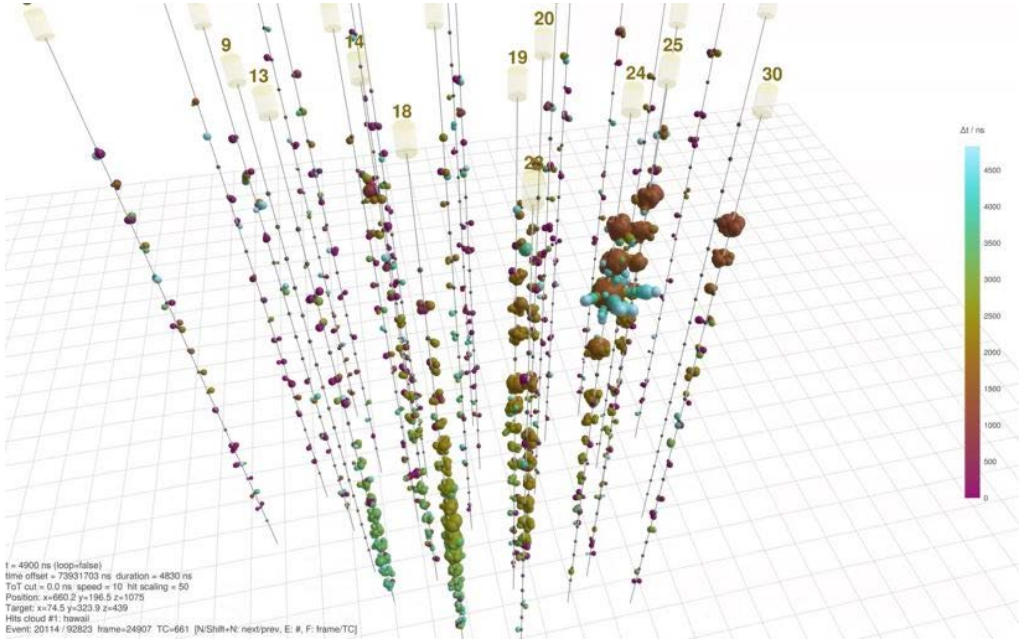


Introduction to event display exercise

KM3NeT Masterclass

Why the event displays?

- Event displays are a powerful means to guess the main features of the events
- They are also useful tools to check the performance of the apparatus



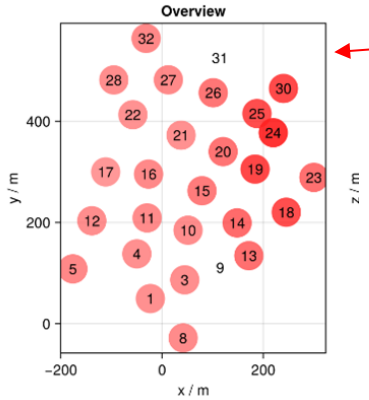
What you will find for this exercise:

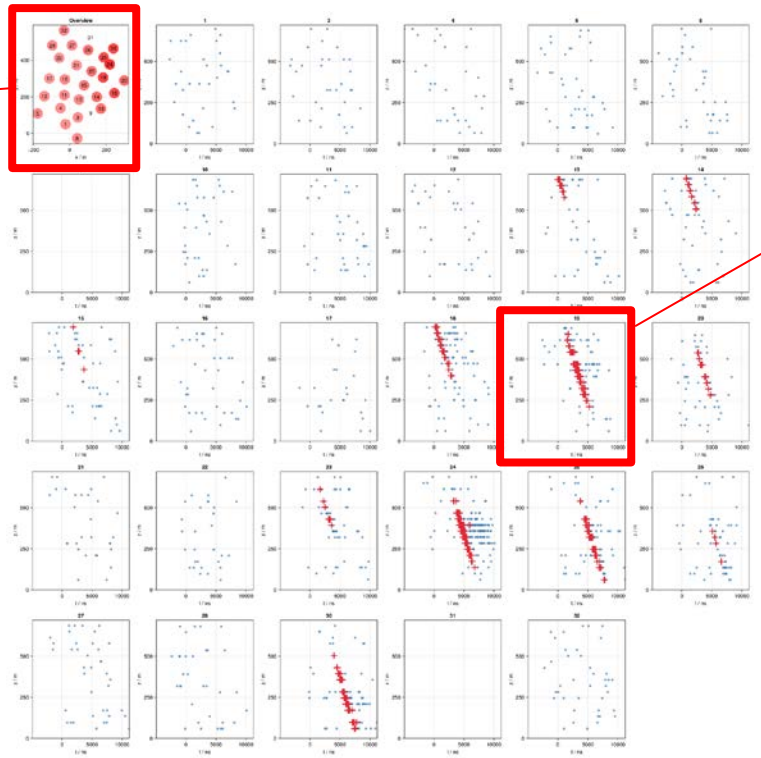
- 10 event displays (movies)
- 10 sets of plots for the same events (but… in scrambled order compared to the movies!)

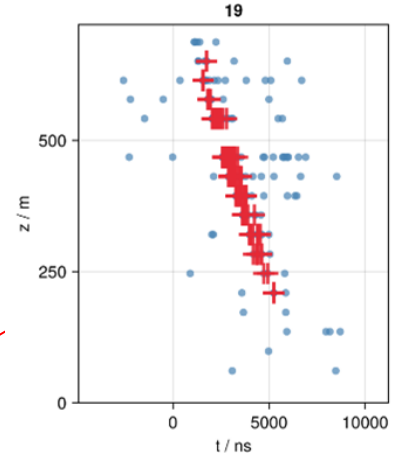
What you are requested to do:

- Find the association between events 1, …, 10 and plots A, …, J
- Detemine for each event the category that you consider more appropriate, choosing from:
    - Downwardgoing / horizontal / upwardgoing tracks
    - Cascades

How to interpret the plots







Top left: layout of the apparatus, showing the positions of the detection units and the amount of signals they detected (increasing with increasing level of colour)

Rest of the page: one plot per detection unit, showing the vertical level and the time of detection of each signal (Remark: red signals are those contributing to the event *trigger*, i.e. when the conditions for recording the event are met, which occurs at $t = 0$)

How to interpret the movies

The colours indicate the detection time of the signals (with the count starting at the time of the *trigger*)

In the bottom left you find summary information about the event (not really relevant for your exercise)

