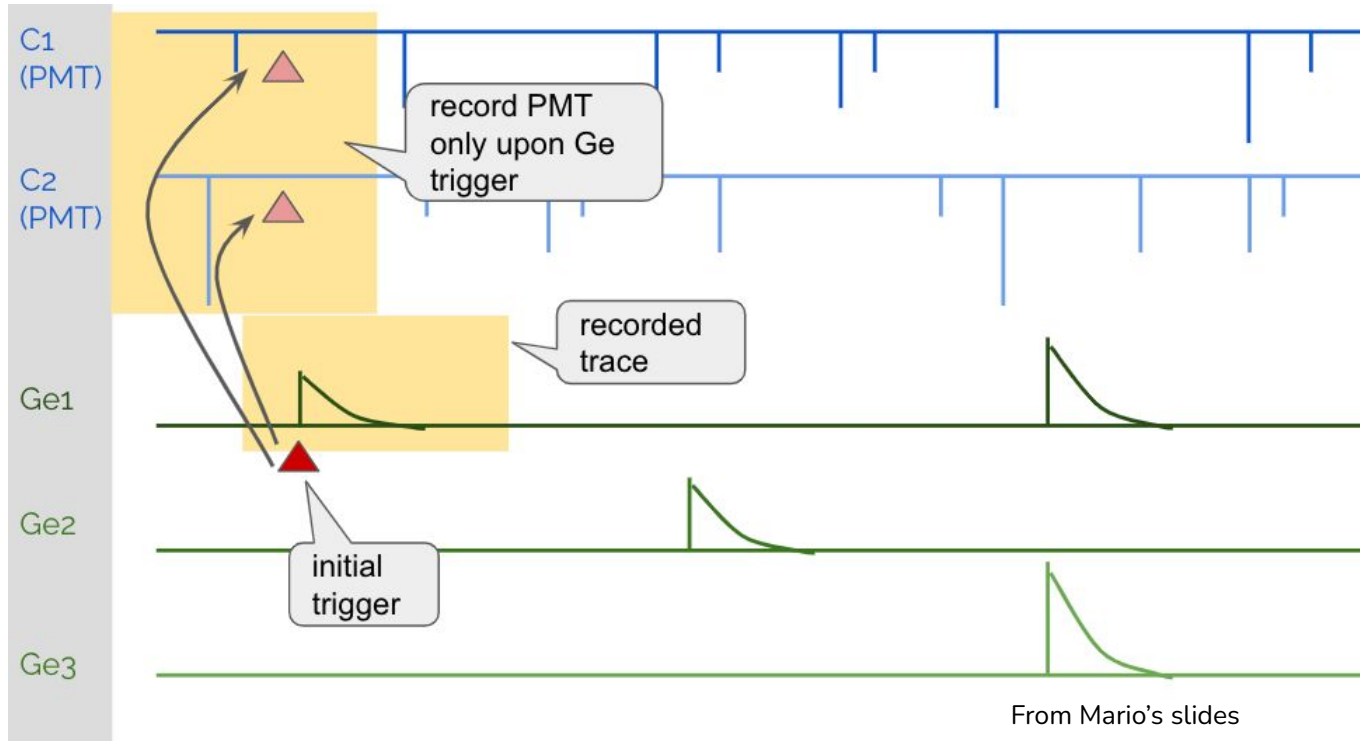


Status of LLAMA analysis

Elisabetta B. - Be-weekly analysis meeting 18.01.2022



LLAMA DAQ

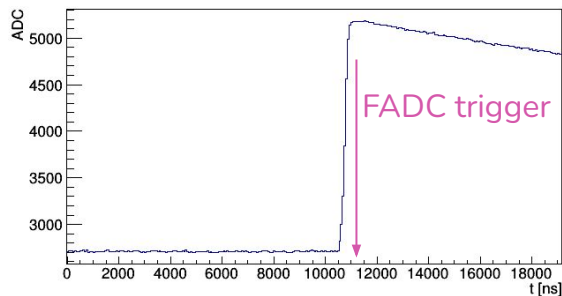




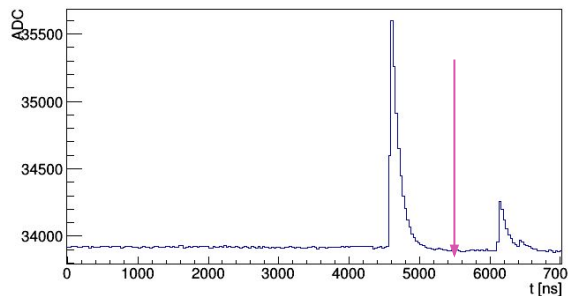
LLAMA waveforms

- We save both Ge and PMTs waveforms: High Frequency (HF) trace and Low Frequency (LF) trace

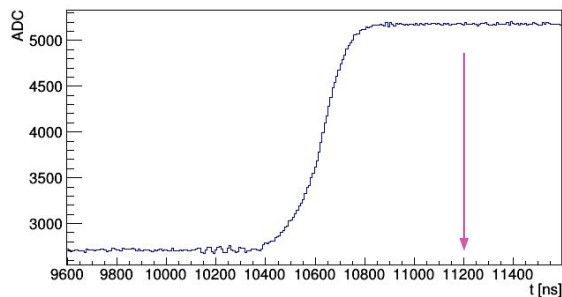
Ge LF trace:
 $20\ \mu\text{s}$ @ 15 MHz



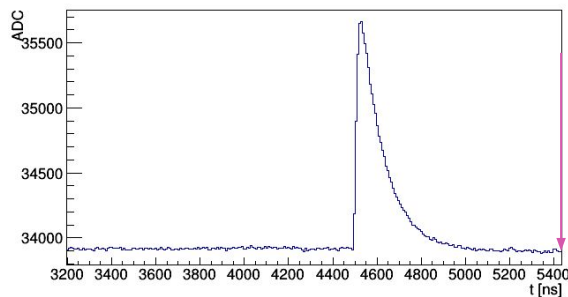
PMT LF trace:
 $7\ \mu\text{s}$ @ 30 MHz



Ge HF trace:
 $2\ \mu\text{s}$ @ 125 MHz



PMT HF trace:
 $2\ \mu\text{s}$ @ 125 MHz





Status and next steps

- Working on the optimisation of the Digital Signal Processing (DSP) steps (e.g. energy reconstruction, time reconstruction, ...) -> TUM
 - Working on energy calibration -> UA
-
- Define a set of quality cuts to select “good data”, remove “non physical” and “pile up” events
 - Apply the DSP and energy calibration to all data (Ba136, Se76, ...)