

PM Pulse Processing for the VLVnt

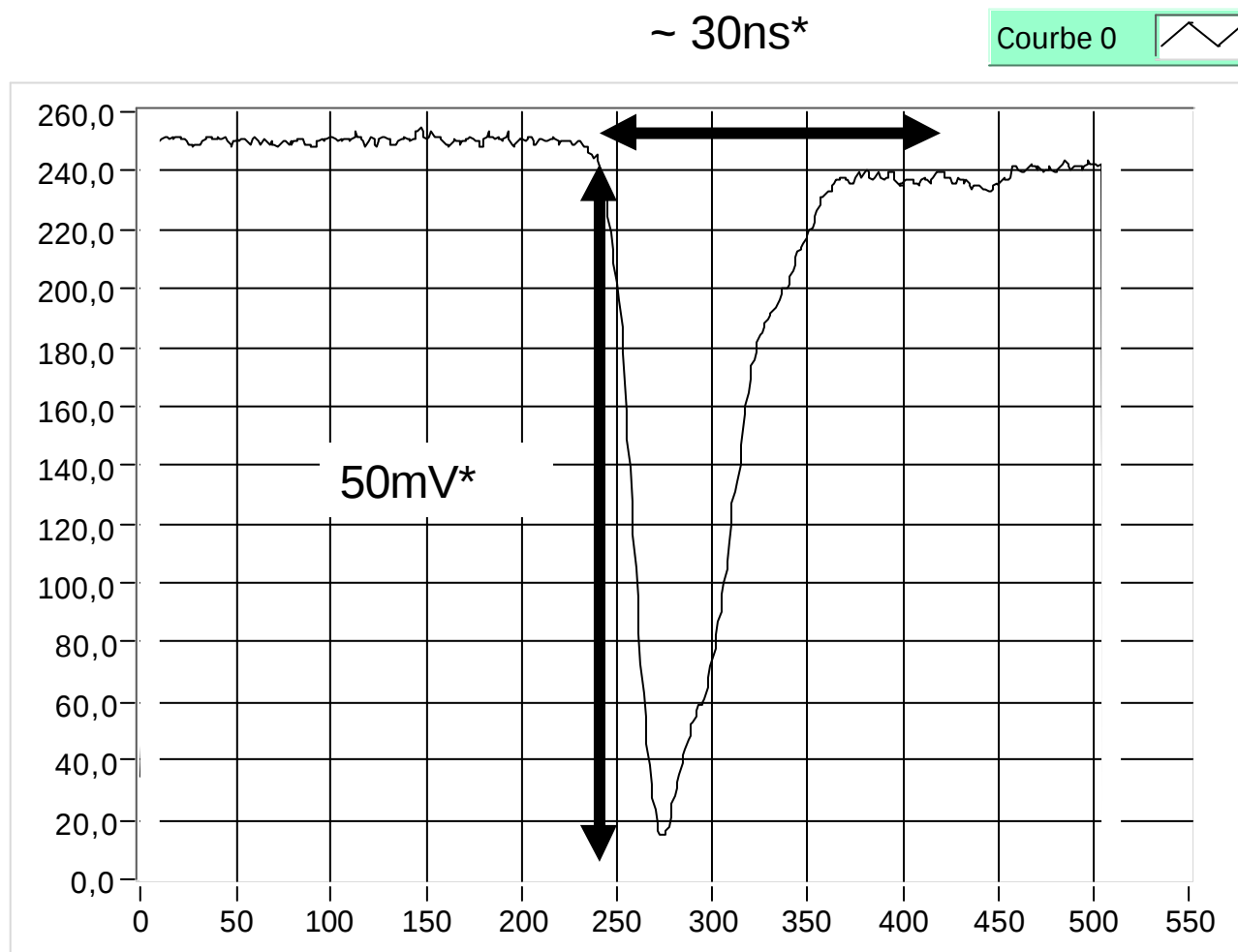
This presentation deals with the front-end signal processing
dedicated to PM pulses

Context and relative topics

- * 10 KPMTs
- * information to extract from the PM pulse
- * connected to bandwidth requirements / capabilities
- * low cost

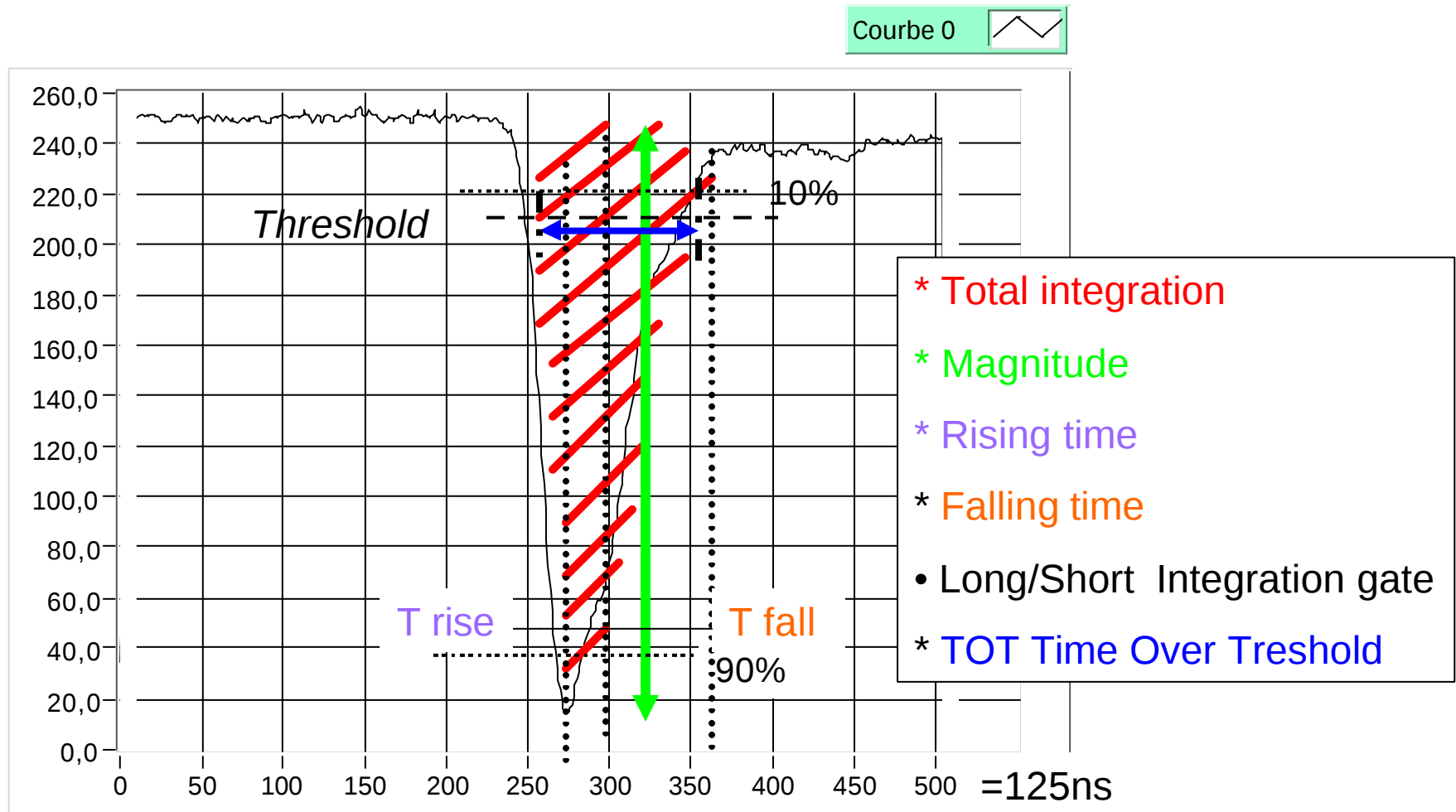
PM Pulse Processing for the VLVnt

The pulse to ANALYSE



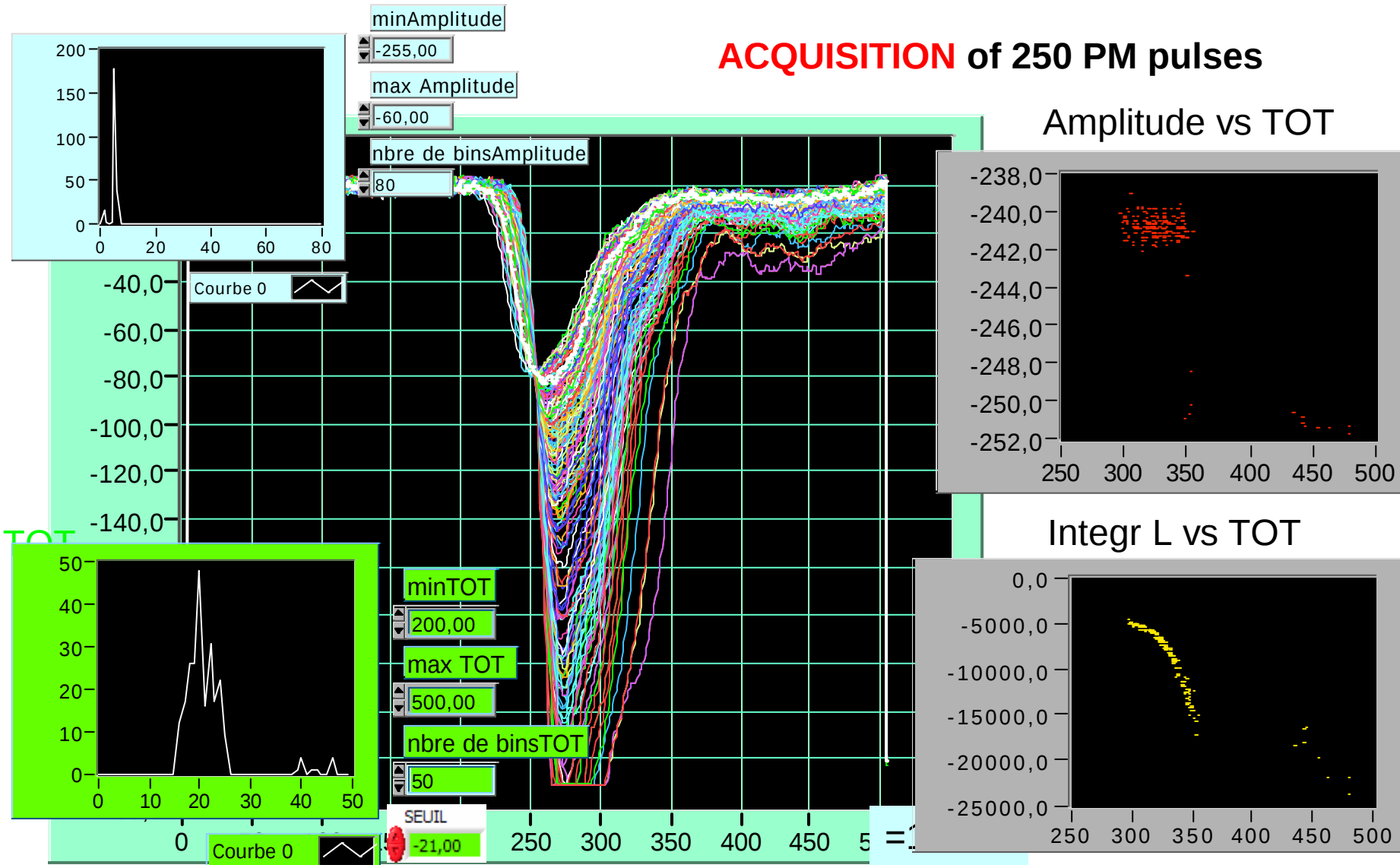
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Several realistic (on line) measurements of the pulse



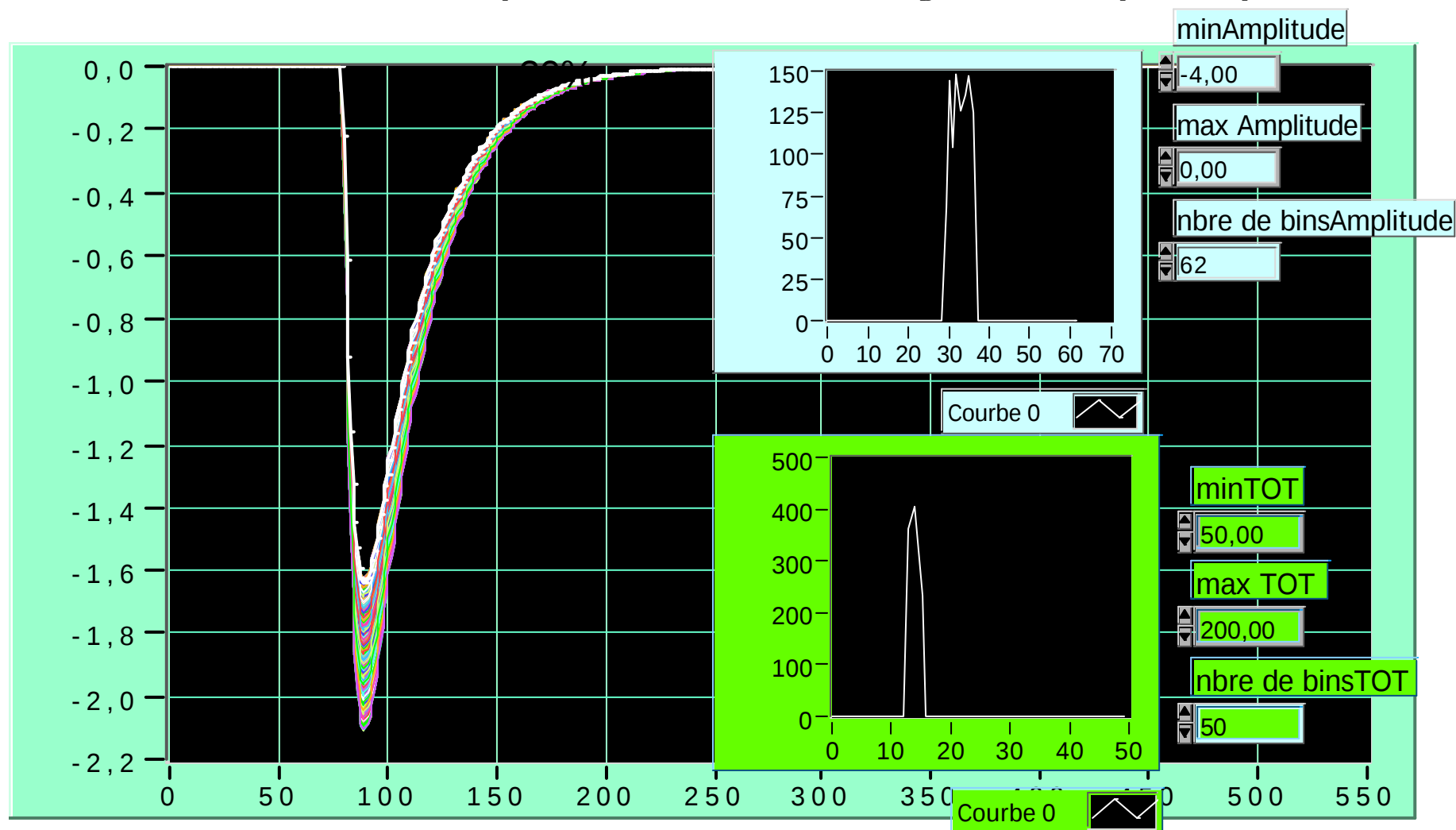
PM Pulse Processing for the VLVnt

ACQUISITION of 250 PM pulses



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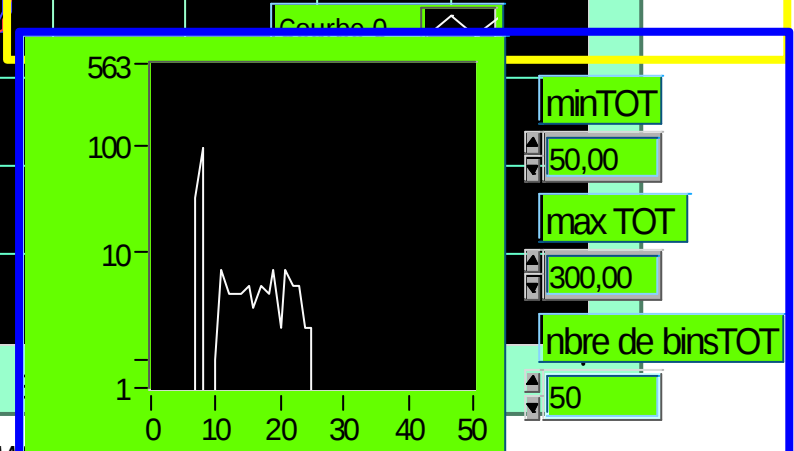
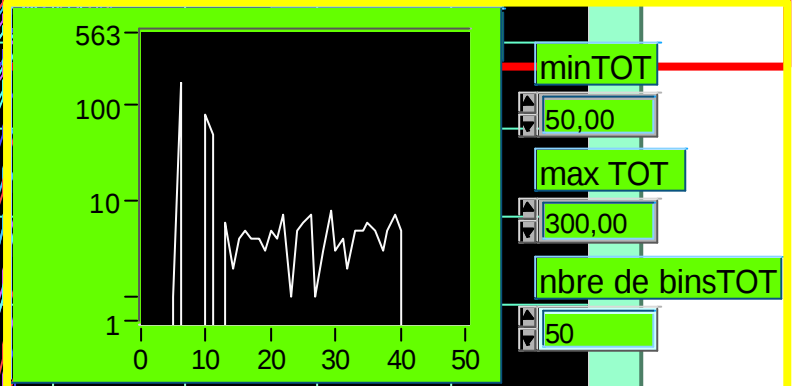
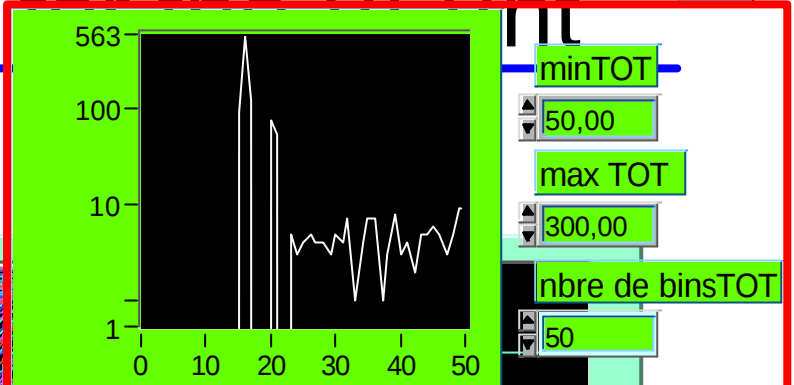
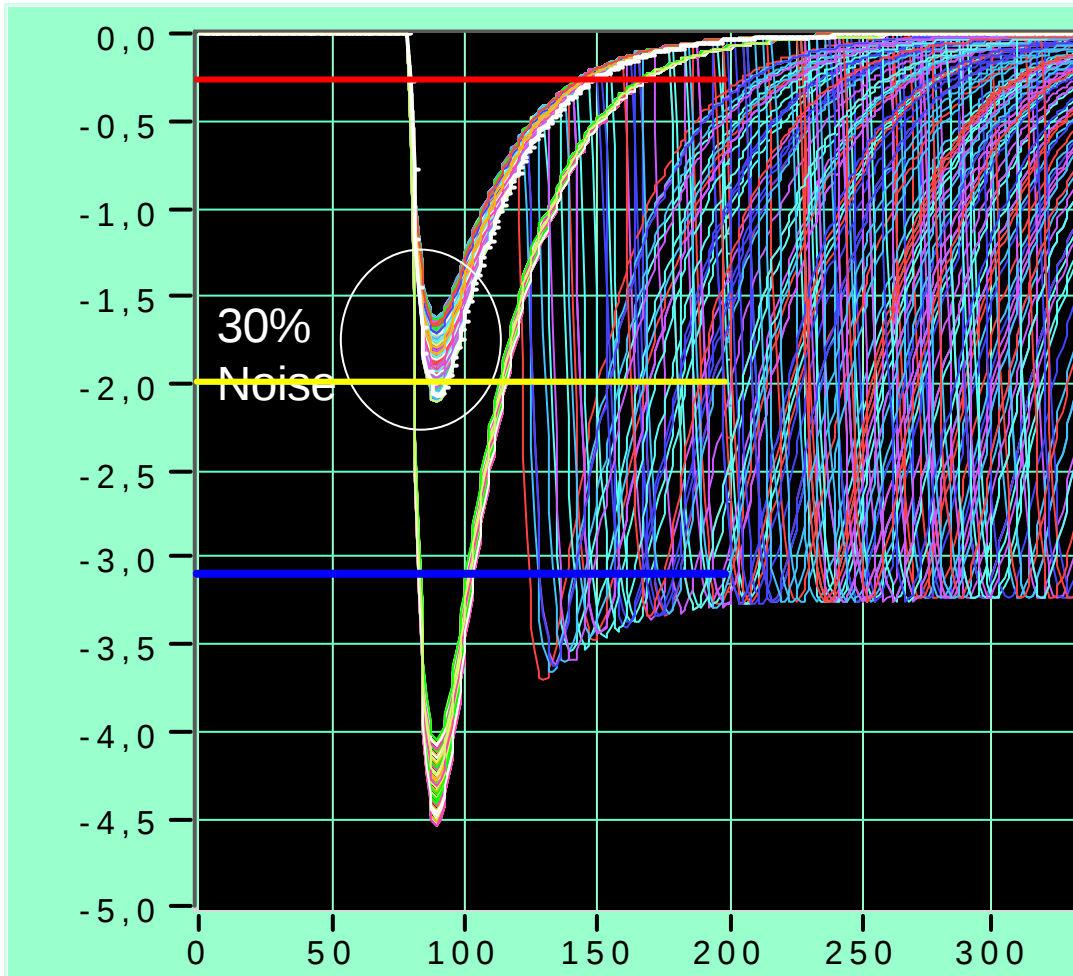
SIMULATION of 1000 « PM pulses »- Noise effect (just on amplitude) 30%



PM Pulse Processing for the VLVnt

SIMULATION of 1000 « PM pulses »-

Noise effect + Multi Hits



PM Pulse Processing for the VLVnt

To summarize

Let 's consider this as a start

We want to define by soft the signal processing To

**Do, and then choose the solution (analog-mix,
digital, asic/discrete, Fs,resolution & dynamic)**

We need more information

Offshore tests are wished to increase the knowledge of pulses
to process (instrumentation presently defined)

Manpower and milestones will be soon presented