

PTP developments in Lyon:

The neutrino group at IPN Lyon is working on the R&D on readout electronics for large Liquid Argon TPC detectors. The readout chain is based on the concept of smart sensors, which are independent DAQ front end units spread all over the detector. Each unit, thanks to an Ethernet capable processor, provides the digitization of the detector signals, zero suppression and data formatting over a gigabit network. Data are then collected over the network by a PC farm and reassembled on the basis of time-stamps. A key point of the project is the generation of the time stamps and the synchronization of the smart sensors via PTP signals handled on the same network used for the DAQ.

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