



ENUBET

PS/SPS user meeting 5 Sep 2018

- Installation
- Data taking
- Plans until Sep 18

Aim of the test:

- ✓ Test a calorimeter for the instrumentation of the decay tunnel of neutrino beams – option based on WLS readout and SiPM on top of the calo
- ✓ Test of the photon veto in both in standalone mode and in combination with the calorimeter

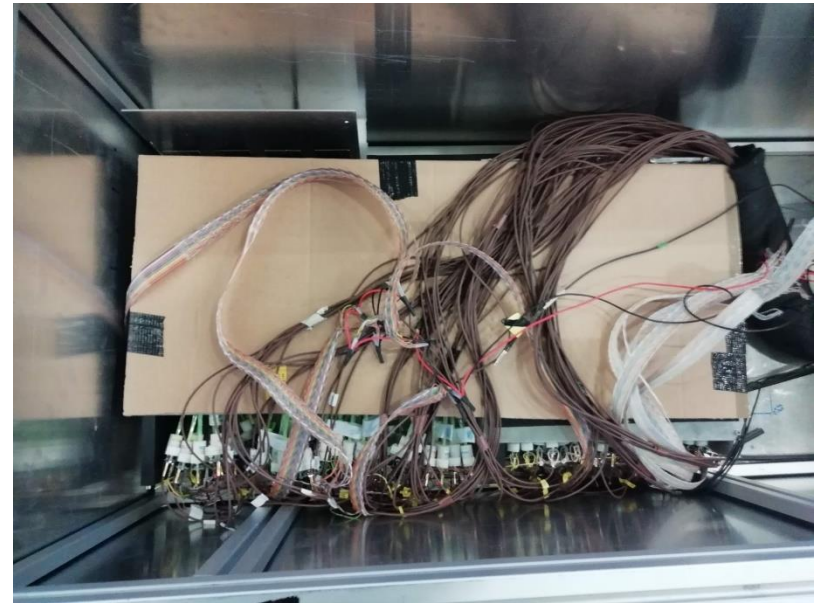


Installation

Wed 5 sep: Silicon chambers, calorimeter, trigger

Thur 6 sep: installation of the SiPM and DAQ

Fri 7 sep: setup of the DAQ and start of the data taking



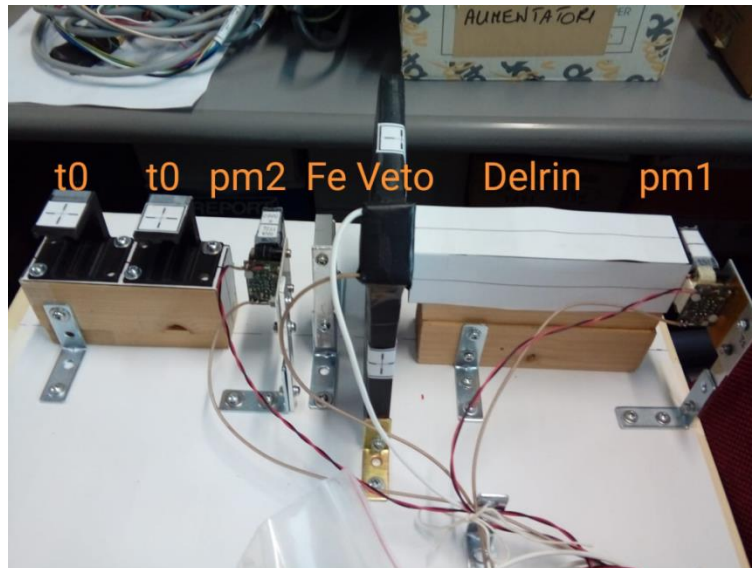
Data taking

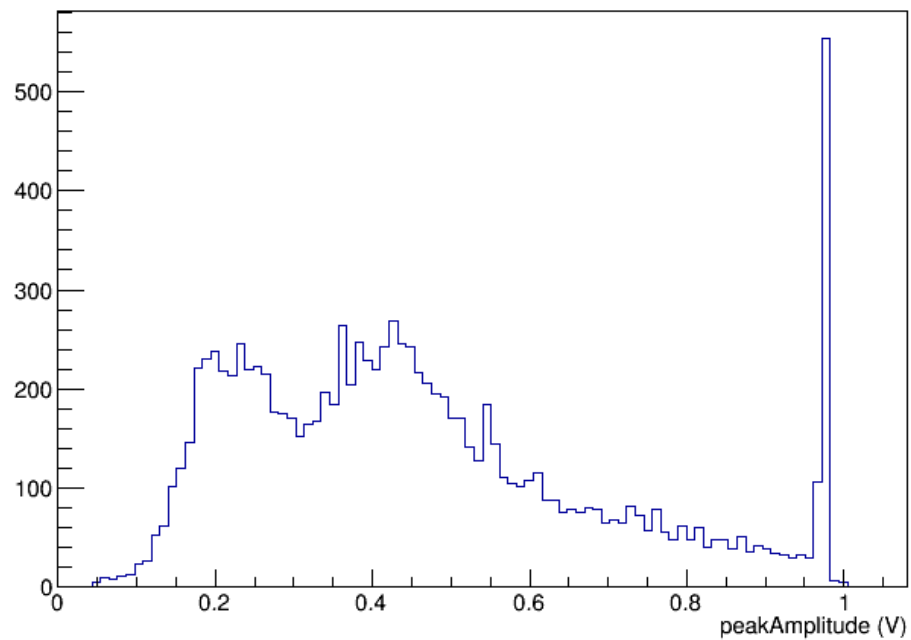
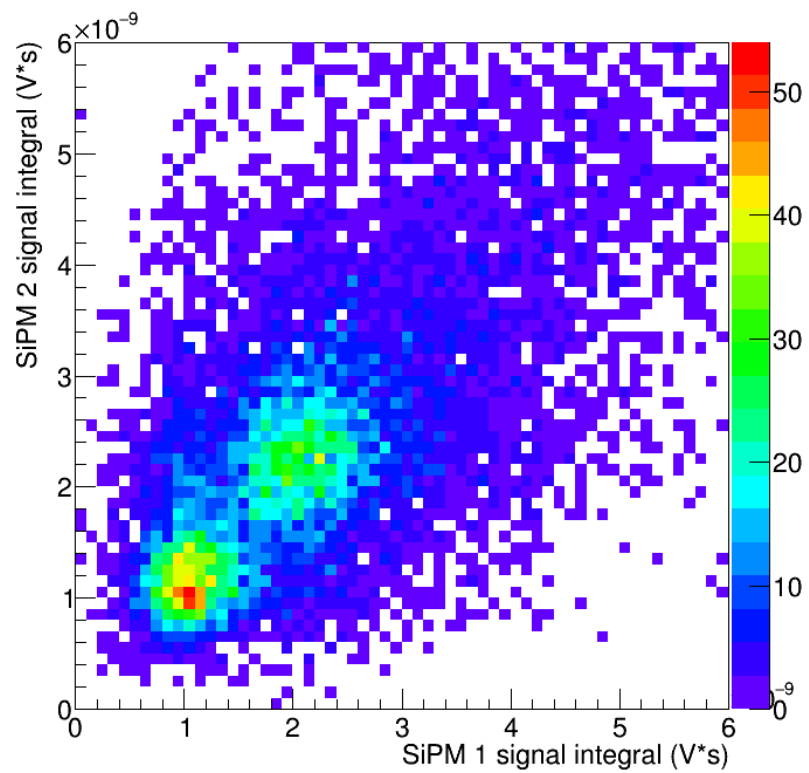
0.5 – 7 GeV with two cherenkovs

Minor problems promptly solved by the CERN East Area team: readout of the delay chambers with CESAR, empty CO₂ bottle (max pressure up to 1.8 bar)

We started data taking on Friday afternoon

- ✓ Scan of the calorimeter modules to evaluate the response to mip
- ✓ Energy scan from 0.5 GeV to 7 GeV for particle impinging in the front face of the calorimeter
- ✓ Test of the photon veto in standalone mode: 1 mip/2 mip separation using converted photon from $\pi^+ N \rightarrow \pi^0 X$ (charge exchange)





Plans for the next week

Energy scan for particles (e, μ, π) impinging at 50, 100, 200 mrad: operation mode that resembles the in a neutrino decay tunnel.

This will be done with the photon veto integrated in the calorimeter (already installed yesterday afternoon)

Detailed test of uniformity response

Dismount from Mon 17 at 4pm (no beam due to RP cooldown for PS access).

Area ready for next users on Tue 18

