

IFIC group week report

*Pablo F. – IFIC
2018/10/11*

SK and SK+T2K analyses

Little time dedicated to this, but still some updates:

Still working to update the systematic errors related with the neutron tagging

Starting to work in the SK+T2K joint analysis withing the Osc3++ framework (analysis tools for SK atm neutrinos)
Situation is a bit stalled due to political reasons between SK and T2K, but hopefully will be solved soon

Learning as much as possible to implement in the future this sort of analysis in the VALOR framework with the leadership of Masha

ProtoDUNE-SP

Basically dedicated to code some software for the beam instrumentation and the DQM

Since yesterday afternoon, physics beam data are being collected with decent purity (> 2 ms lifetime)

→ Starting to think about some analysis we can perform using HighLAND

Getting some training
reconstructing cosmic runs
from last week

ProtoDUNE-SP

Ottobre 2018

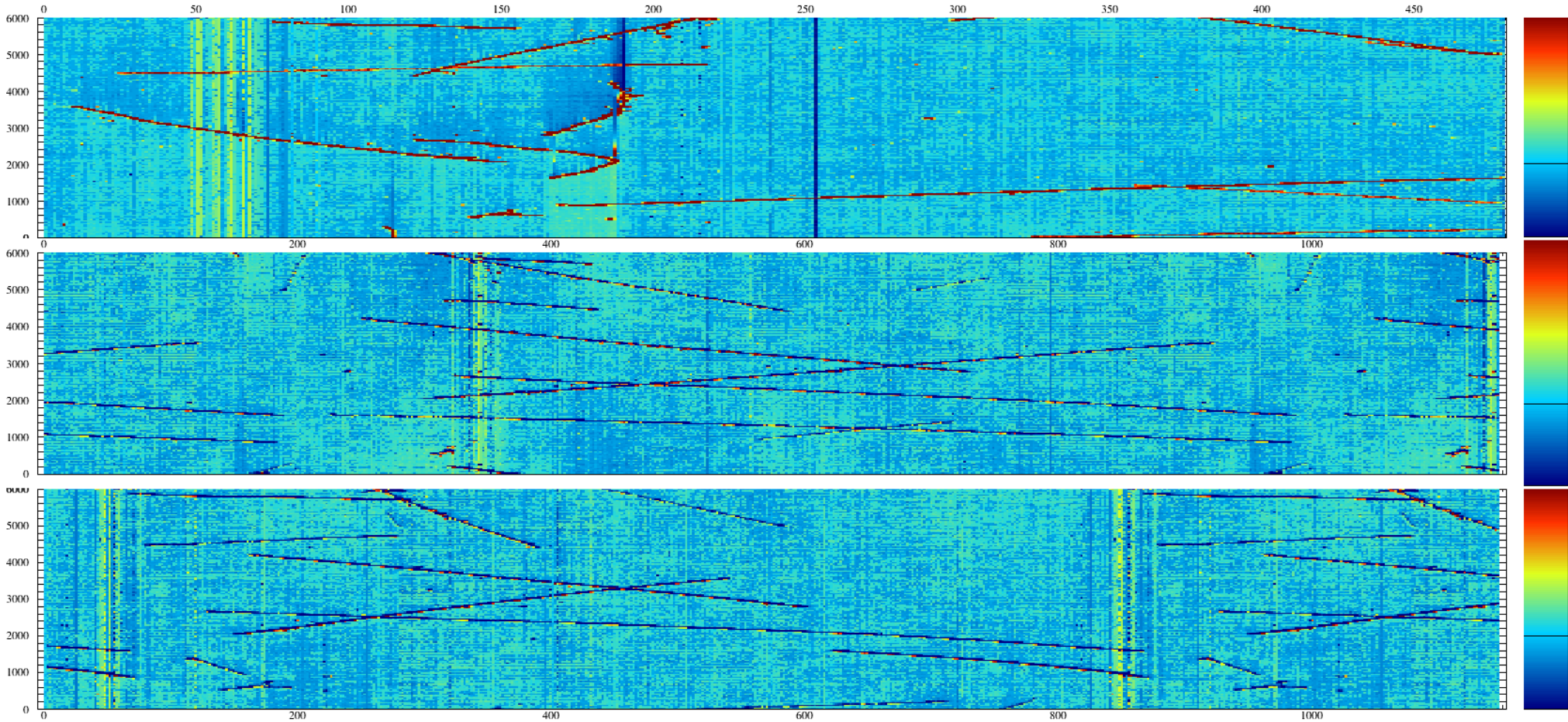
Lunedì	Martedì	Mercoledì	Giovedì	Venerdì	Sabato	Domenica	
1	2	3	4	5	6	7	
8	9	10 Beam off 8am - 6pm 6pm-midnight: 7 GeV all trigger	11 7 GeV all trigger	12 1 GeV Pi and proton veto on electron	13 1 GeV Pi and proton veto on electron	14 1 GeV Pi and proton veto on electron	
15 1 GeV Pi and proton veto on electron	16 1 GeV Pi and proton veto on electron	17 Beam off 8am - 6pm 6pm-midnight: 6 GeV all trigger	18 6 GeV all trigger	19 2 GeV Pi and proton veto on electron	20 2 GeV Pi and proton veto on electron	21 2 GeV Pi and proton veto on electron	
22 2 GeV Pi and proton veto on electron	23 2 GeV Pi and proton veto on electron	Beam off					

Novembre 2018

Lunedì	Martedì	Mercoledì	Giovedì	Venerdì	Sabato	Domenica
Beam off		Beam off 8am - 6pm 6pm-midnight: 4 GeV all trigger	1 4 GeV all trigger	2 4 GeV all trigger	3 4 GeV all trigger	4 3 GeV Pi and proton veto on electron
5 3 GeV Pi and proton veto on electron	6 3 GeV Pi and proton veto on electron	7 Beam off 8am - 6pm 6pm-midnight: 3 GeV no electron	8 Electron only trigger 1 GeV	9 Electron only trigger 1 GeV	10 Electron only trigger 2 GeV	11 Electron only trigger 2 GeV

ProtoDUNE-SP

Data files take ages (days) to process, but I can show a busy reconstructed cosmic event



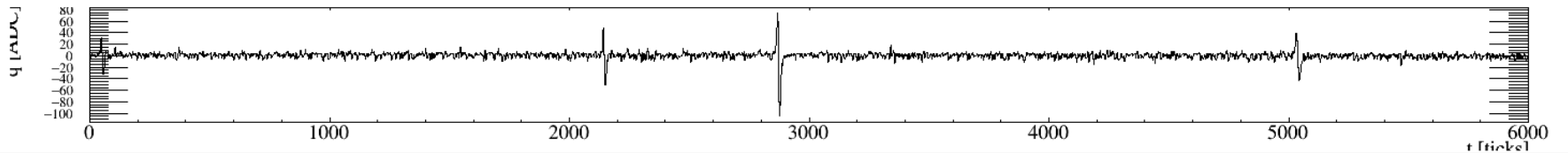
LArSoft

Run: 5077/1

Event: 101307

UTC Tue Oct 9, 2018

05:31:45.266599936



DUNE

Compiling information about installation and integration inside the DUNE CISC consortium

Others

Preparing proceedings of the talk at TAU2018

Others

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