Scanning Study

Used 206 RHC MC fully contained events

True

Call

	CC	NC
CC	152	14
NC	27	14

Scanning Efficiency 85% and Purity 92%

Scanning MC-Data (RHC)

- Data:

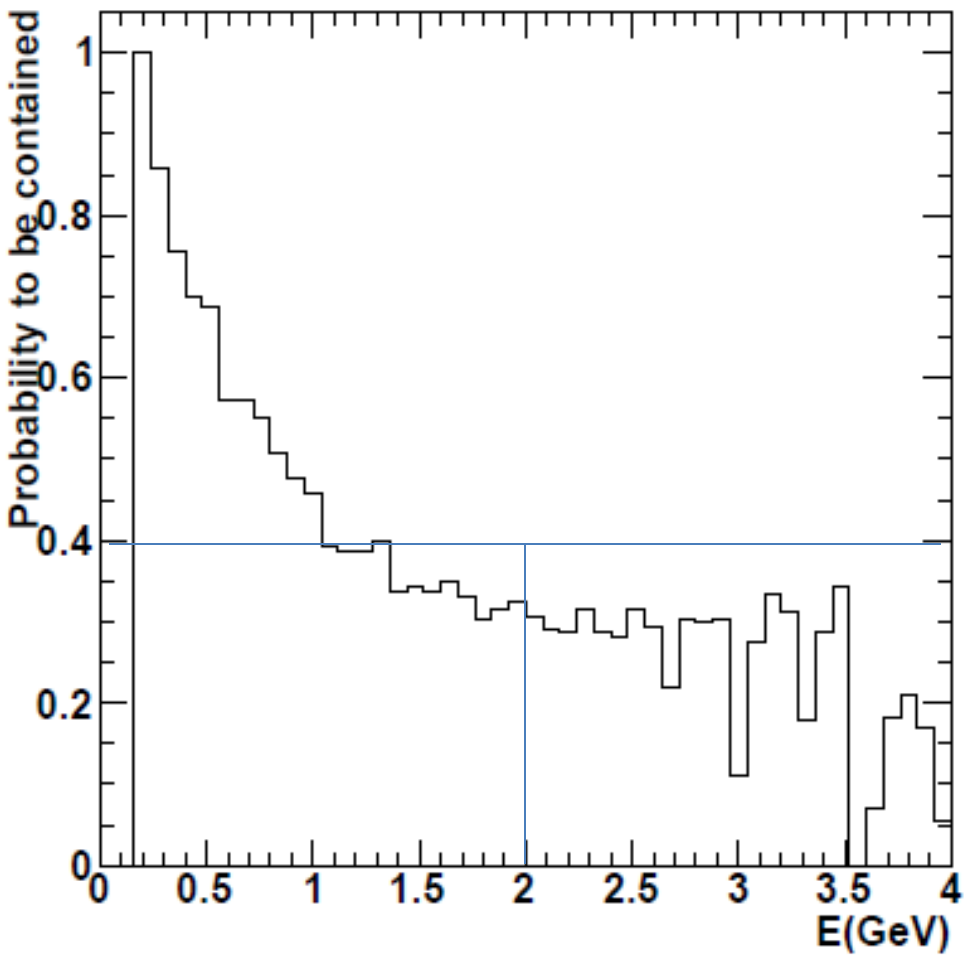
Events	Prongs	In detector	Out side the detector
311	1	188	123
54	2	54	
13	3	13	

- MC (number of events scanned 206)

	Prongs	Events
CC	1	119
CC	2	39
CC	3	6
NC	1	19
NC	2 or 3	12

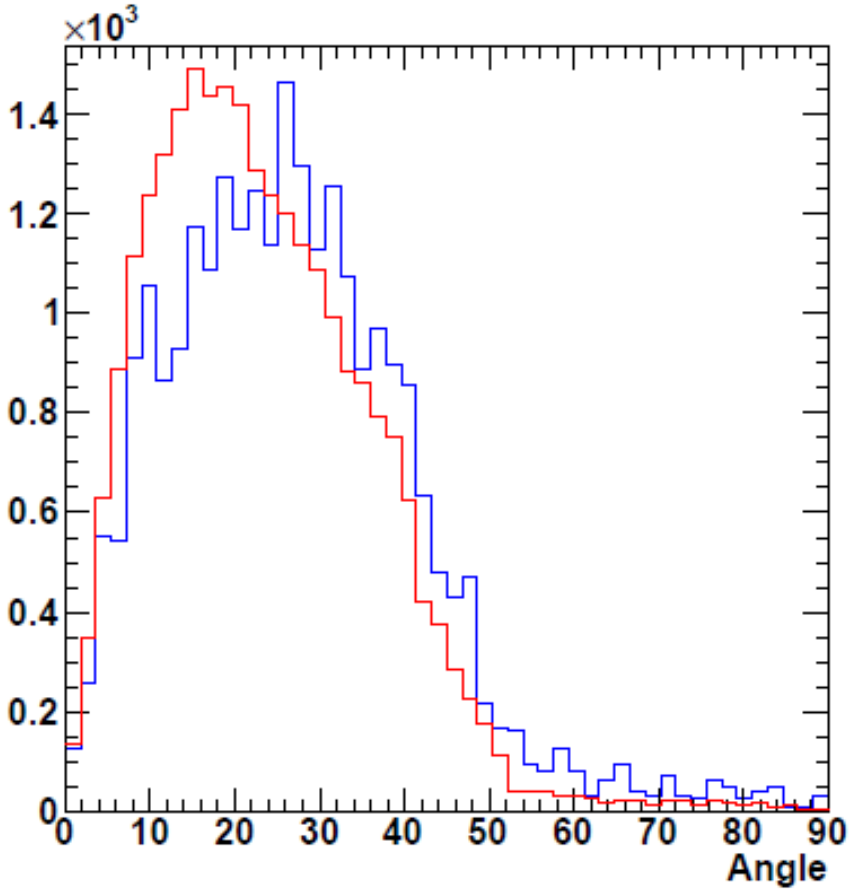
	CC	NC
True	164	42
Selected	178	28

Probability to be contained vs Energy

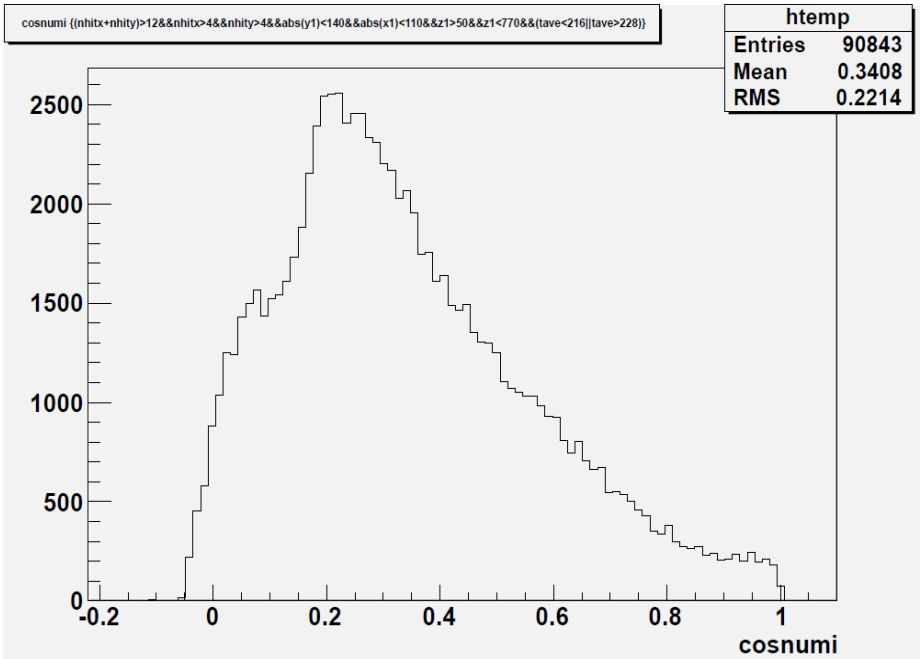


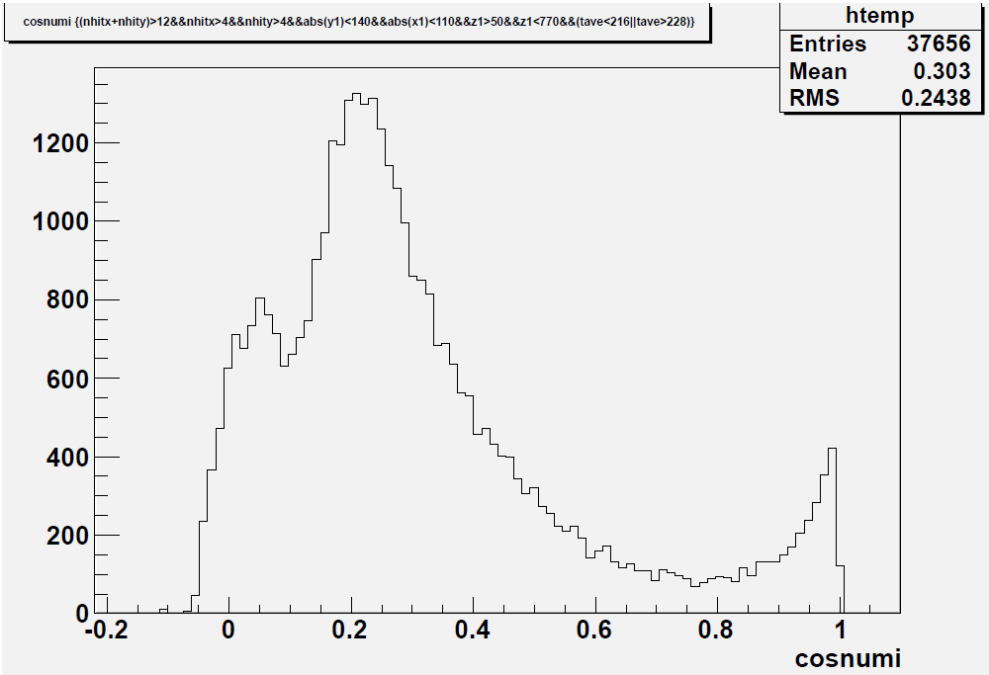
Around 35% fully contained events around 2 GeV

Angle CC-NC

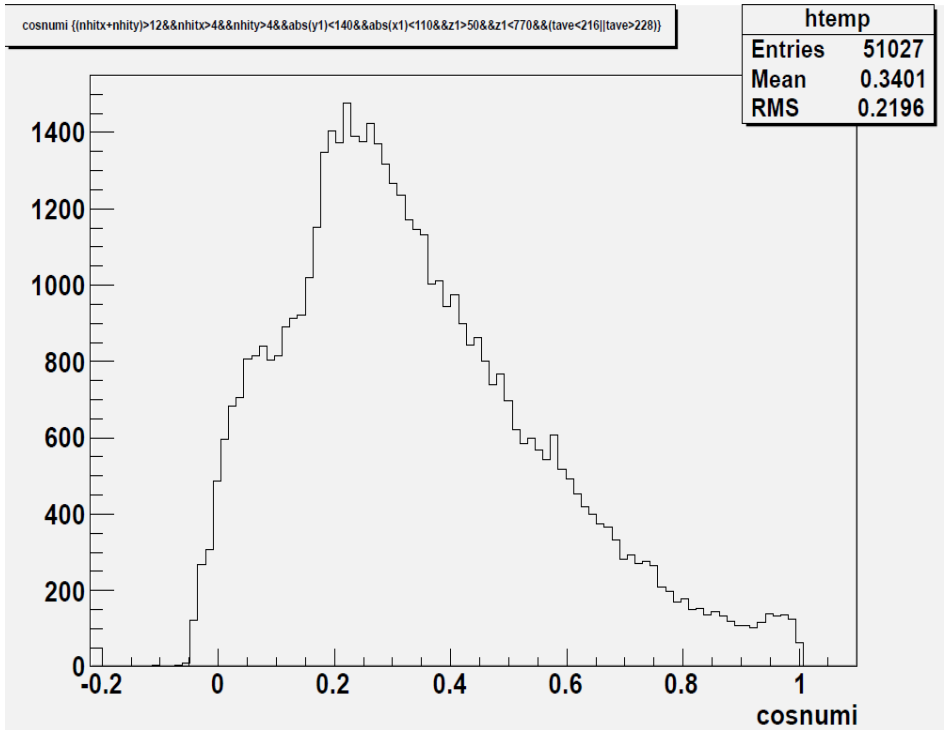


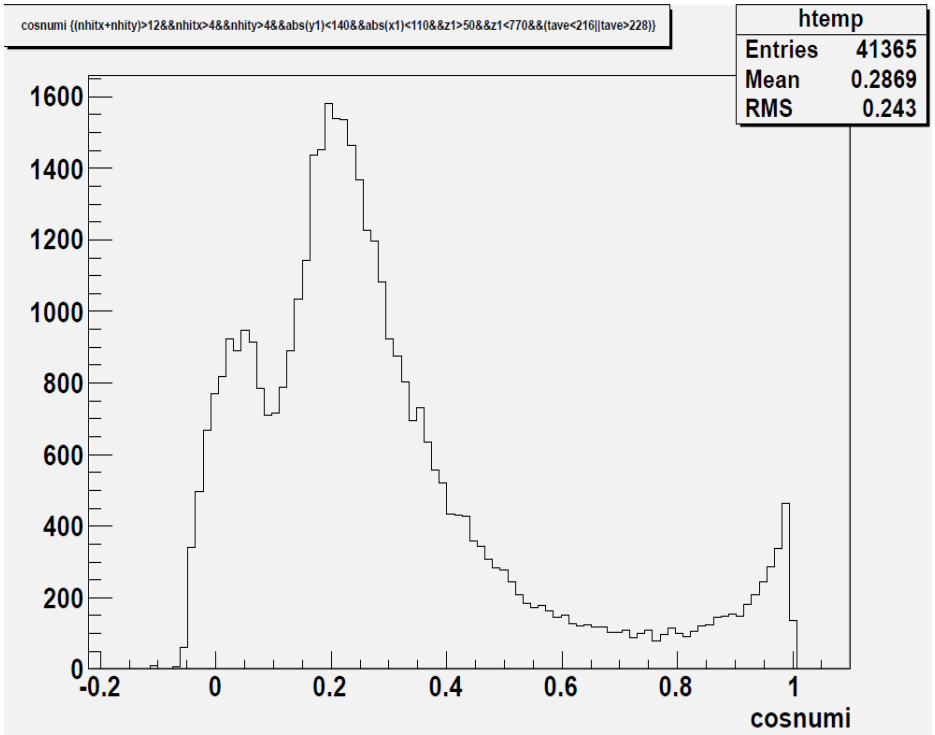
CosNuMI distribution (Release S11.04.30)





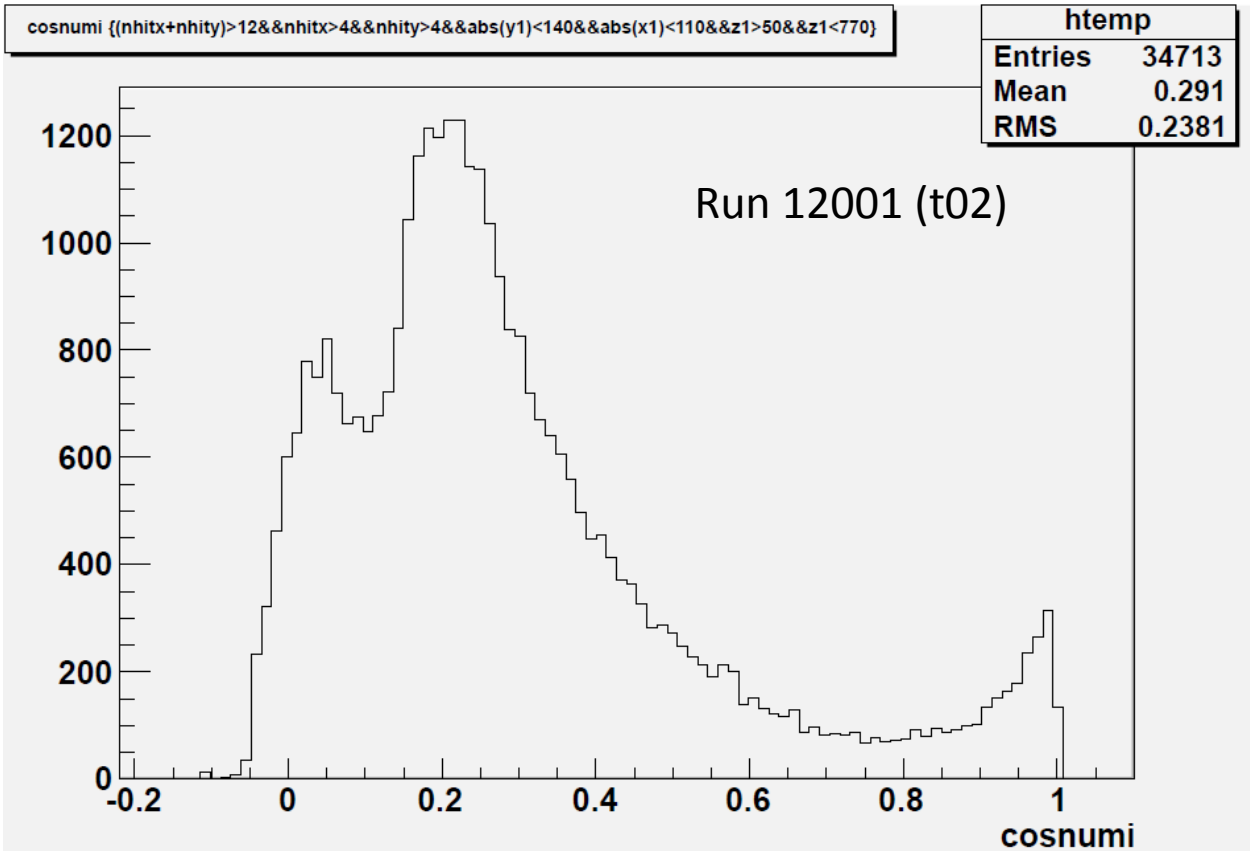
CosNuMI distribution (Release S11.06.14)





Peak on the out-time data is there from release to release, discarding that could be bad channels the problem

Using a bad channel from the two di-block over Cosmic Data during the FHC run



Cosmic data has a rise around 1 as the out-time NuMI data