

M.C Fouz

Muon Week, April 2002

Summary of CIEMAT Status

Number of SL's mechanically finished	36
Number of SL's tested	33
Number of Chambers completed	9
Number of Chambers at CERN	5
Next Shipment: (foreseen in April 23) 5 chambers	

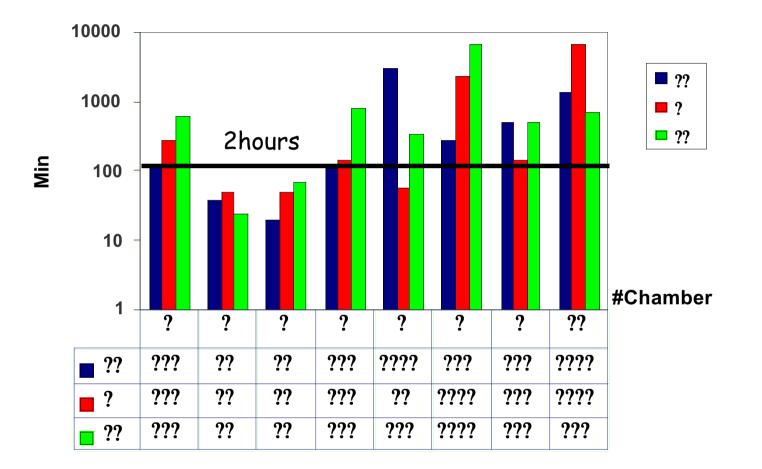
Actual Production Rate:

Last 4 chambers were built in 10 working weeks

SL testing proceeded at the same rate as mechanical assembly

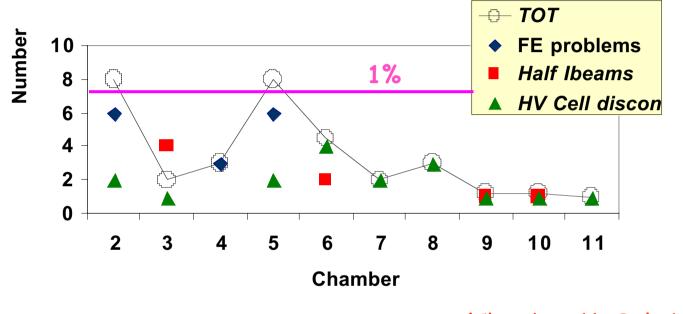


TIME CONSTANTS



Gas tightness is better in most recently built SL's





(Chamber 11. Only HV tests in air)

No dead channels due to FE problems in the last 5 chambers tested.

Problems on TP connector feethroughs

Last week we used for the first time the TP connectors received on the last shipment.

We found that some of them don't work. Reason: a short circuit due to a bad soldering (most frequently in the part glued to the SL cover).

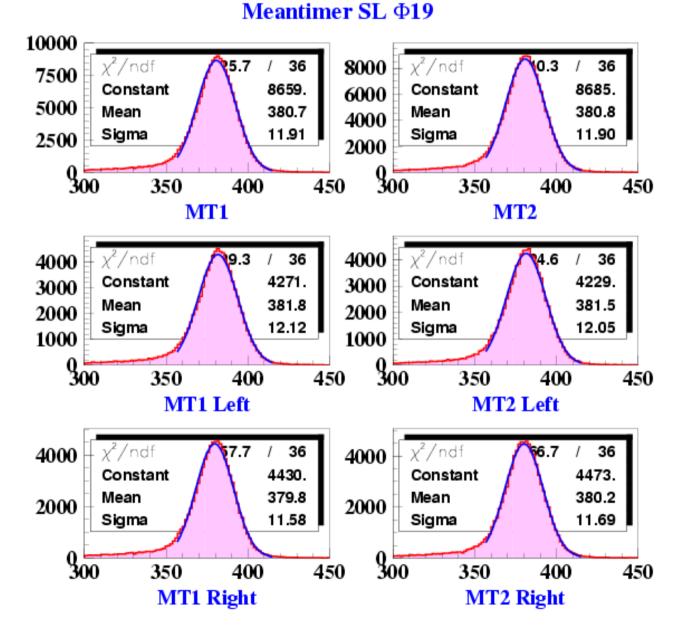
Statistics:

TP assembly 4	<mark>5%</mark> fails	(total 220)
TP assembly 3	13% fails	(total 123)
TP assembly 2	0% fails	(total 20)

Average failure 7.5%

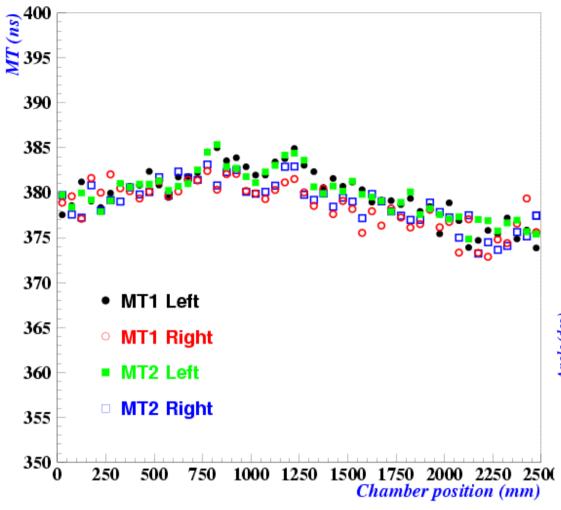
In previous 10 Chambers (120 TP) this problem was not found





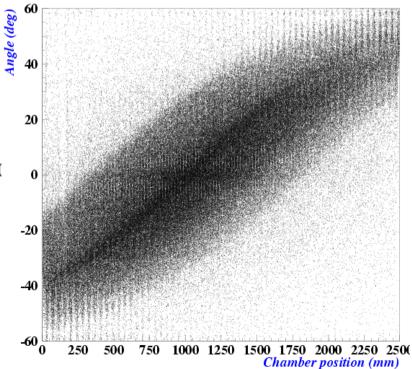
Mean values are the same within ±1ns

Meantimer SL Φ19

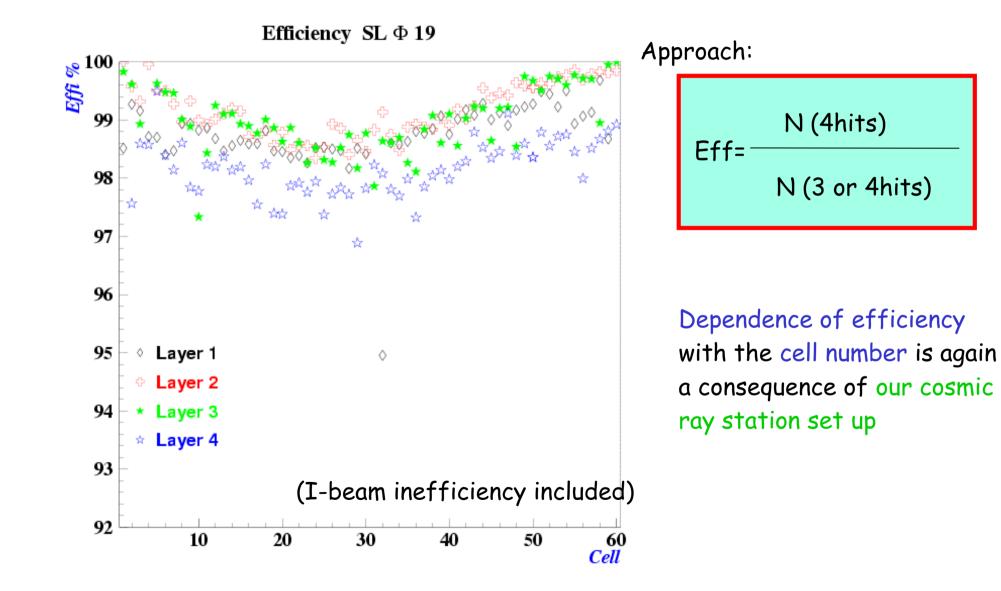


Meantimers (II)

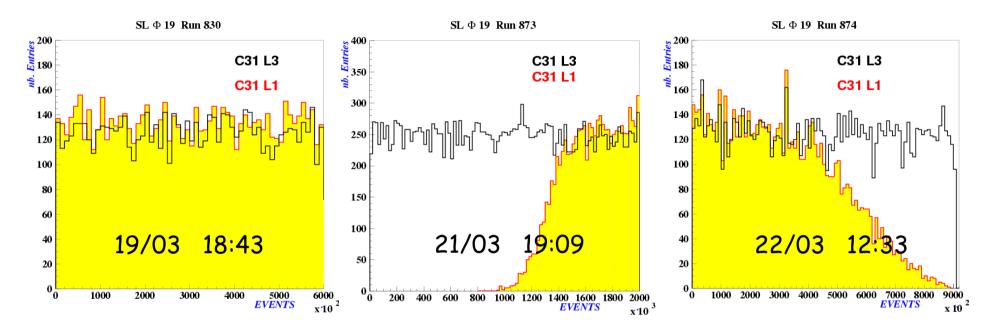
Variation of the Meantimer with the chamber position can be explained by our cosmic ray station setup (plastic scintillators, geometry and location)







FE inefficiency problems



HV: 3600/1800/-1200

For some channels the efficiency varies with time.

This problem is related with the FE, (TP also disappears)