

Update of LNF activities

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DCH R&D Meeting

G. Finocchiaro

INFN – LNF

26- July 2012

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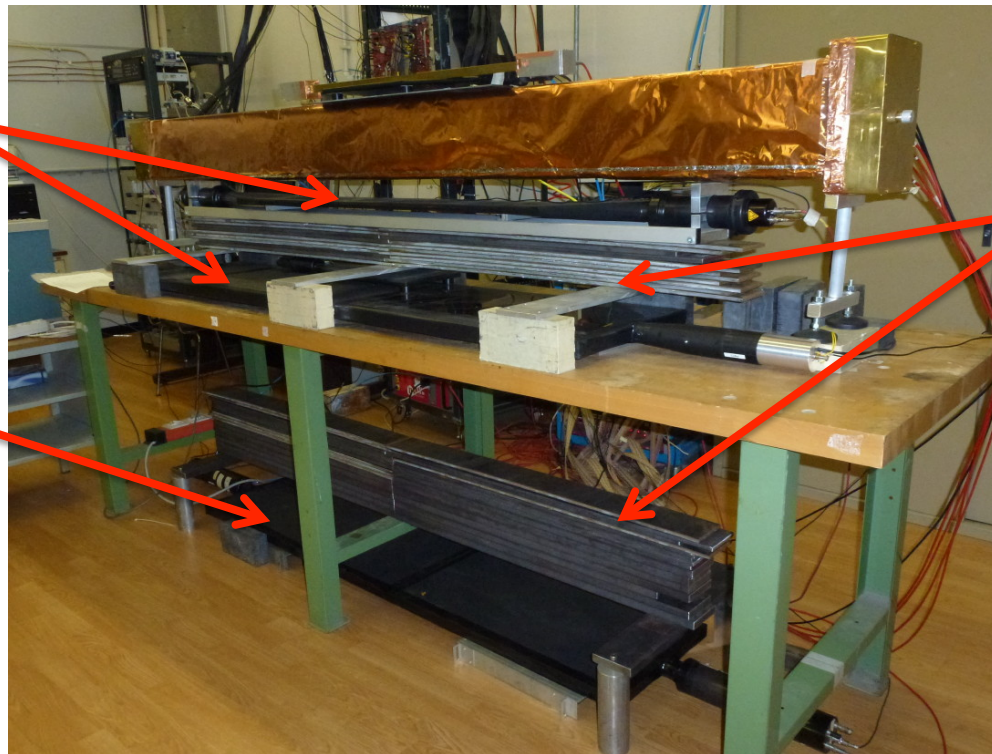
INFN – LNF

Upgraded cosmic-ray setup

- The setup has been upgraded to:
 - exploit (almost) the full chamber length
 - select momentum region close to minimum ionizing cosmic muons

Trigger counters

**Counter to veto
high-momentum
muons**

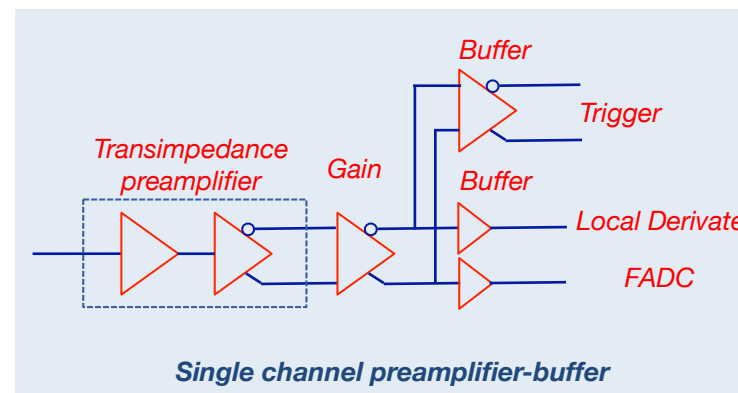
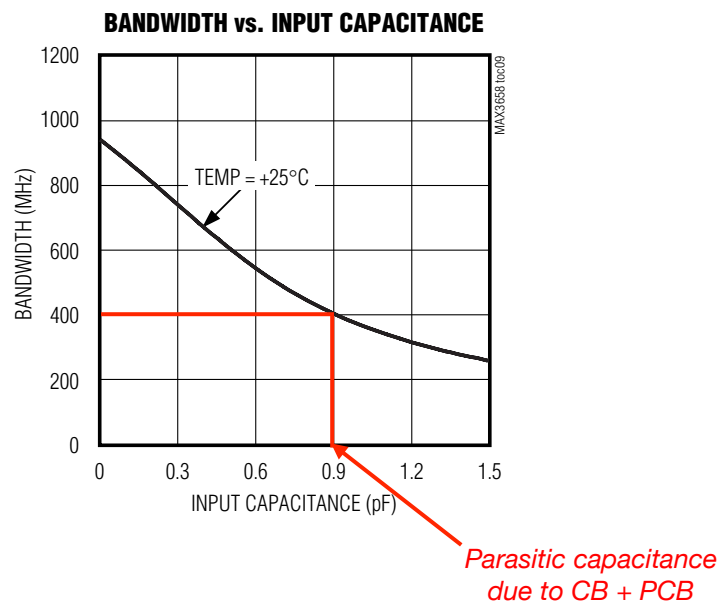


Iron absorber

- Counters are read-out on both sides for measurement of longitudinal coordinate

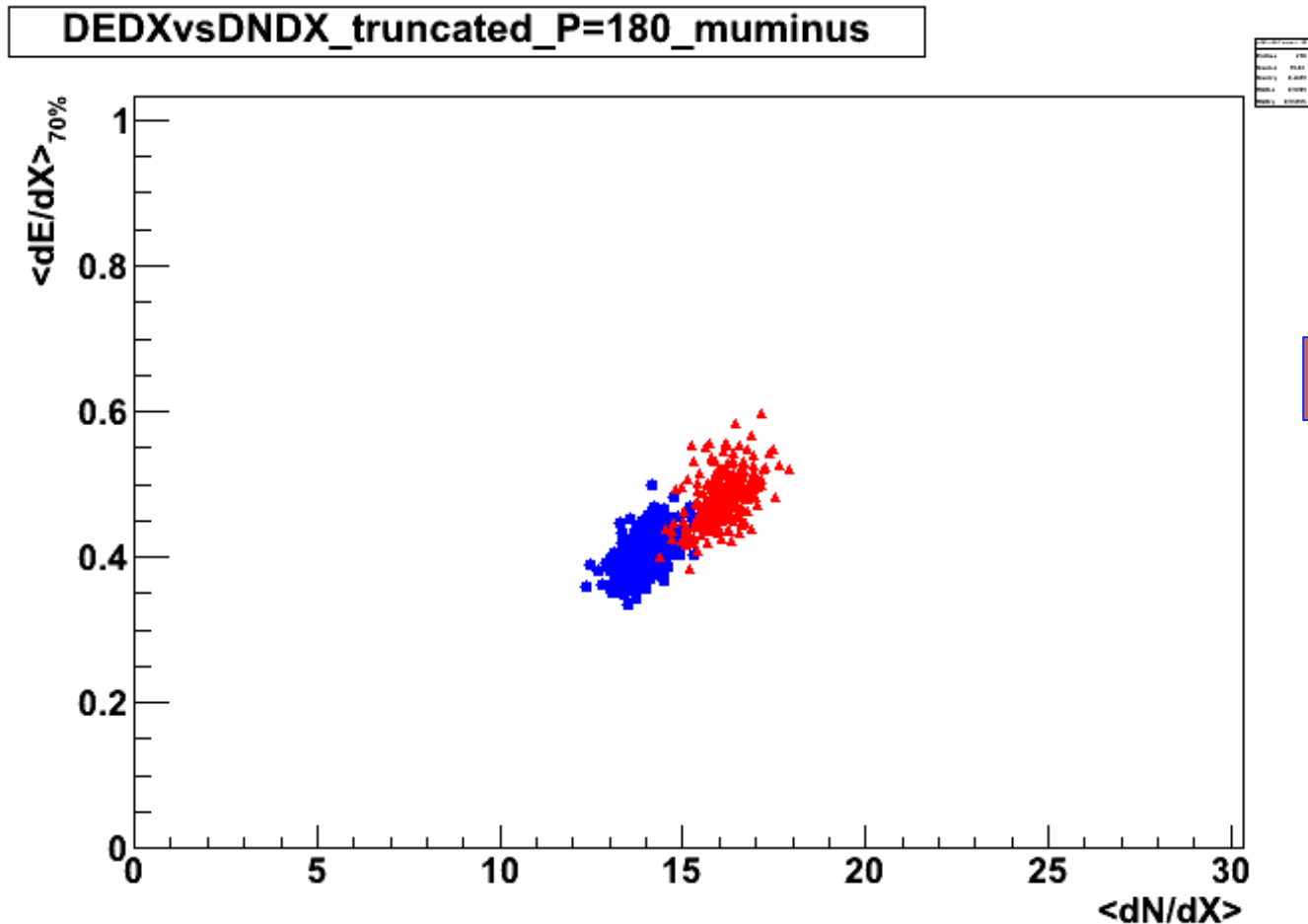
Component	BW(MHz)	Vsupply(V)	Isupply(mA)	Pd(mW)	Comments
BFP740	5000	5	0,5	2,5	Common base transistor
MAX3658	580	3,3	20	66	Transimpedance Preamp
THS4509	1900	+/- 2,5	37,7	188,5	x 4 gain stage
THS4503	370	+/- 2,5	25	125	Trigger
THS3201	1000	+/- 5	17	340	Buffers (Out FADC + Out Local derivate)
<i>Pd (x channel)</i>				<i>0,7 W</i>	
<i>Pd (total)</i>				<i>20,2 W</i>	

G. Felici



Preliminary Garfield Studies...

... confirm possible gain in studying dE/dx & dN/dx correlation shown during Jun 21 meeting by Sam Dejong



C. Gatti