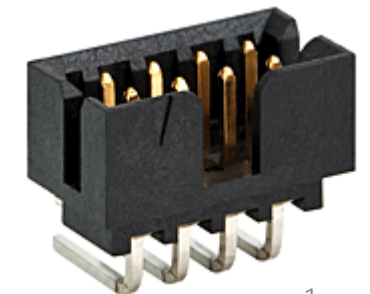
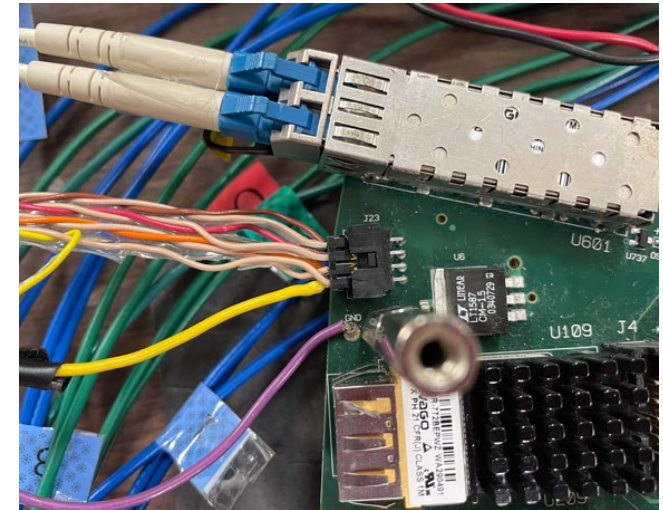
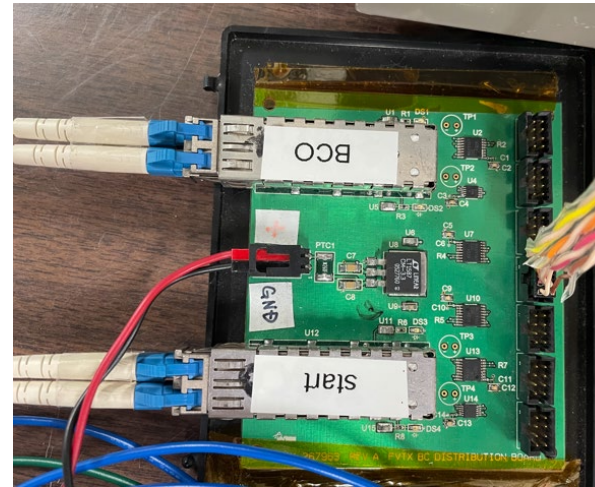
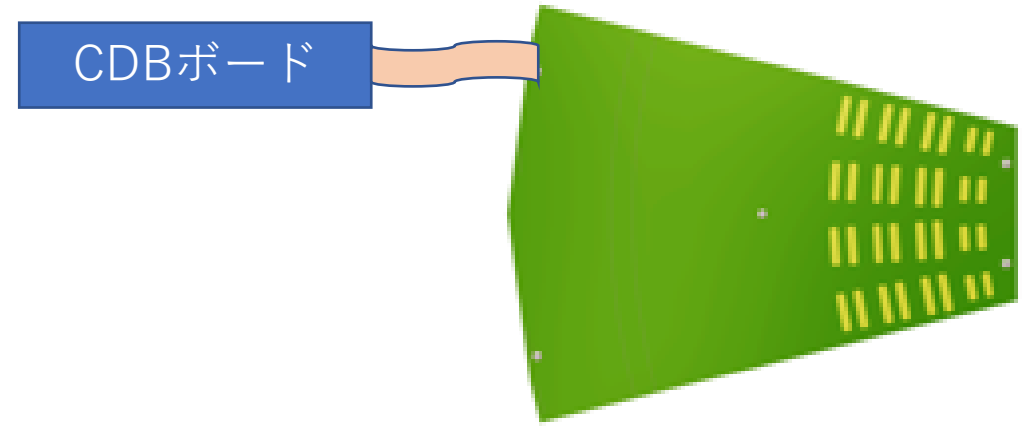
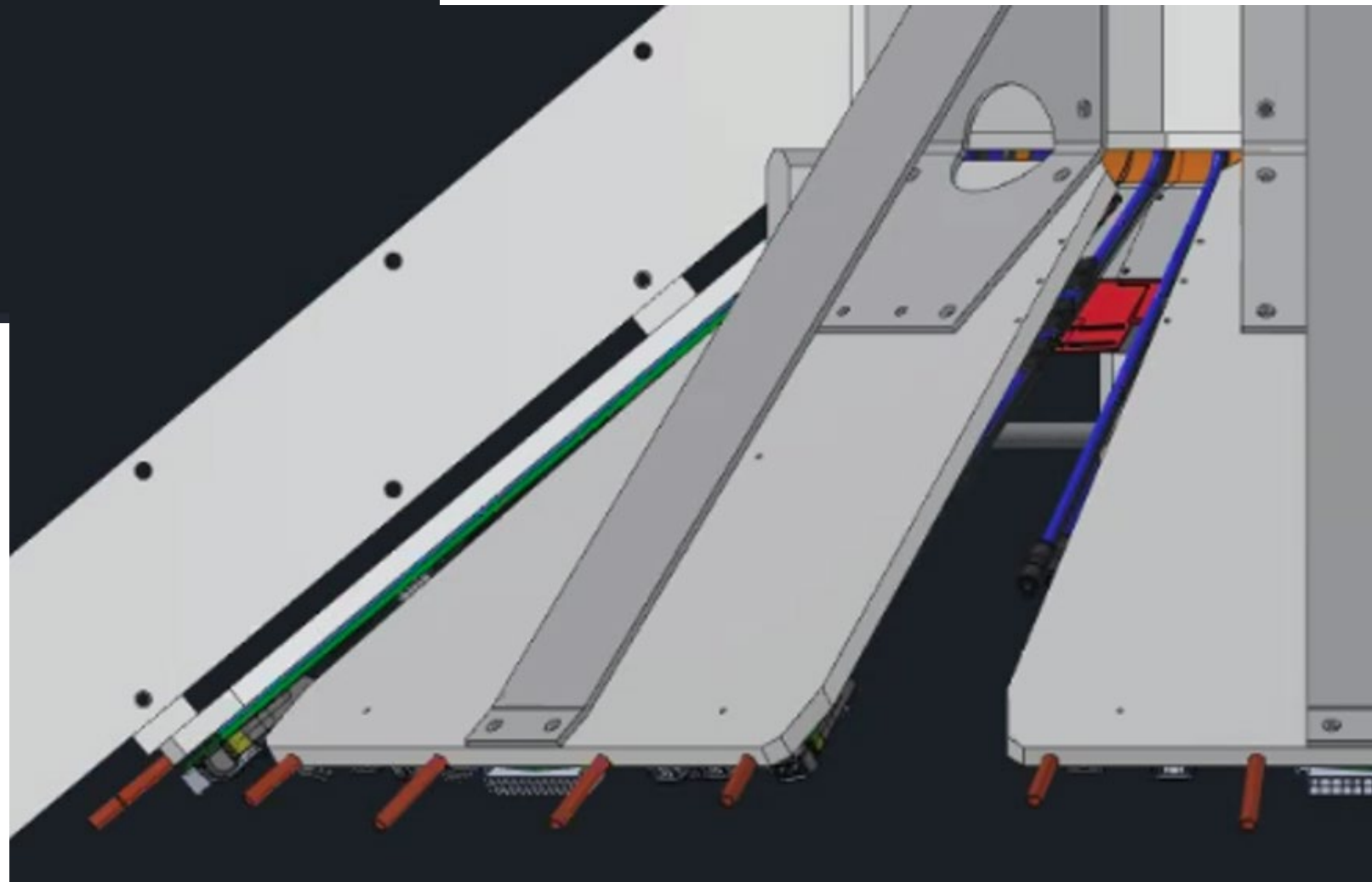
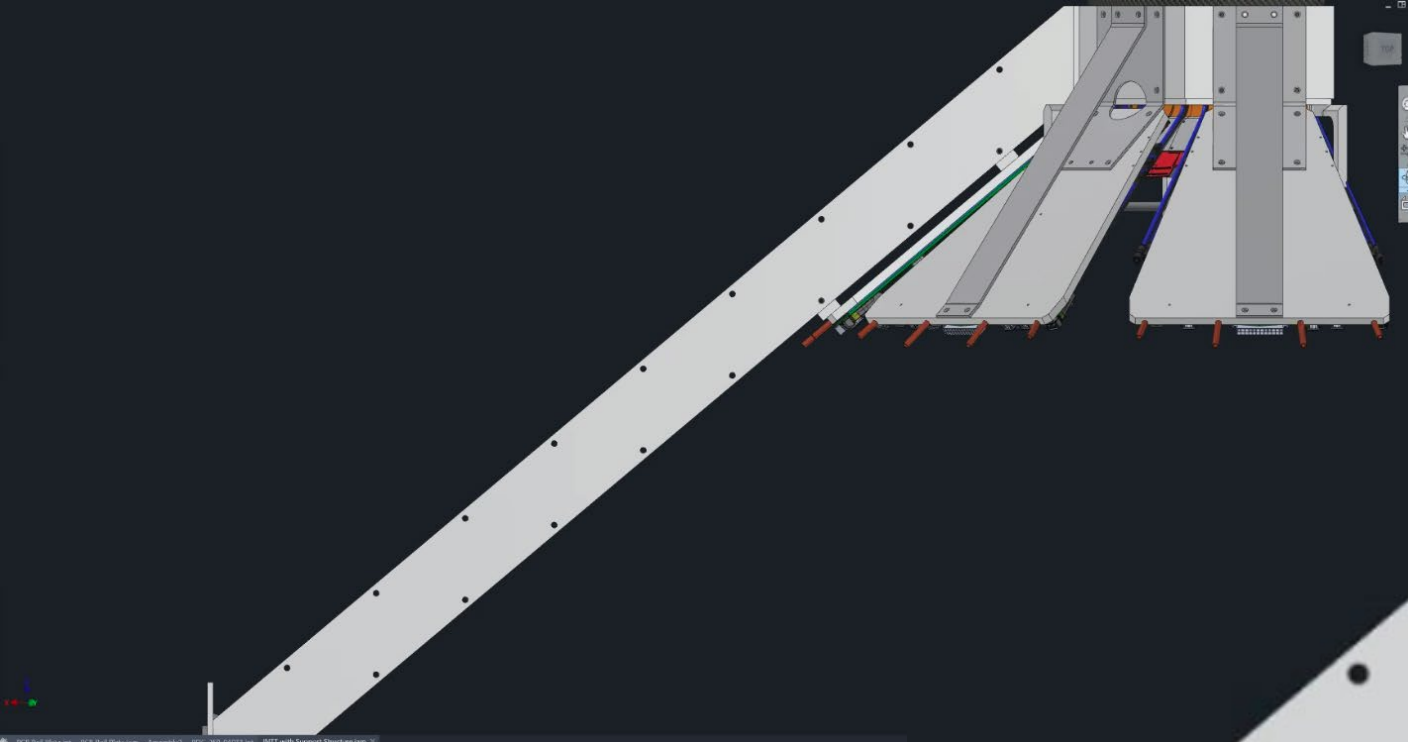


CDBのケーブル

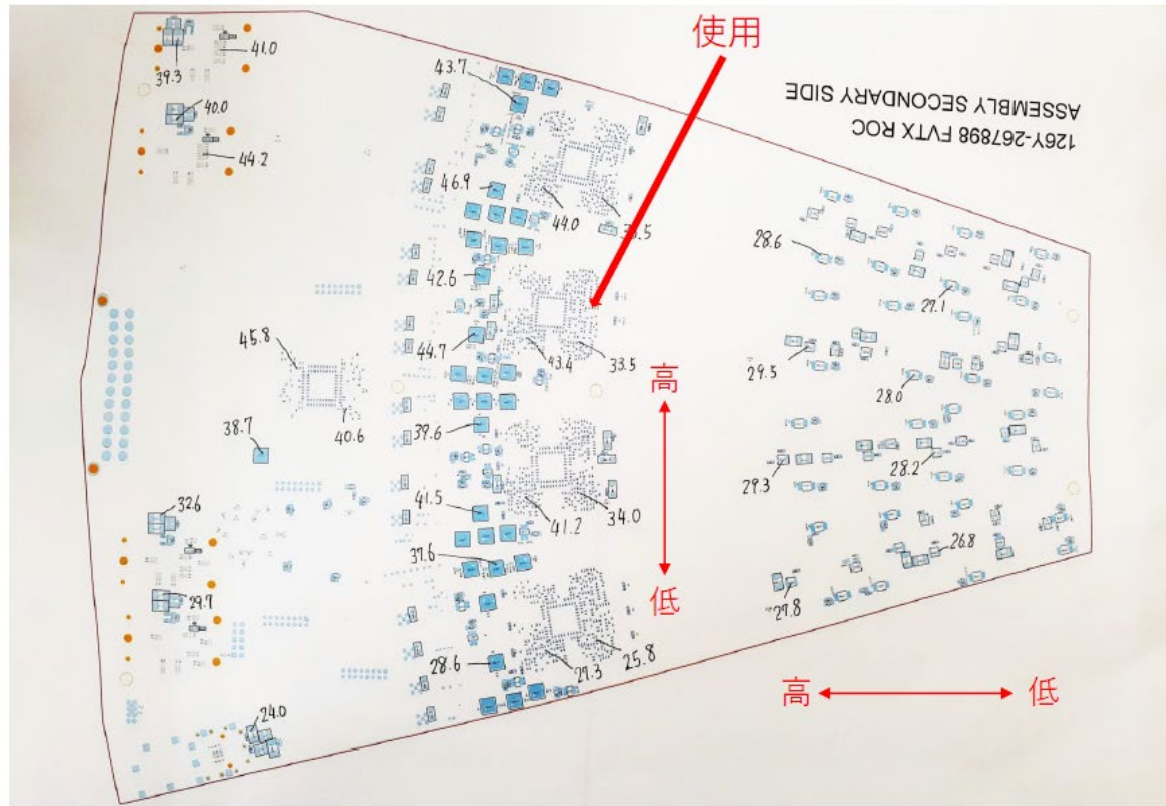
- ROC1枚当たり1ボードに変更
 - ケーブル長は現在50cm。
- 変更案
 - ケーブルをできるだけ短くする
 - たとえば5cmとか。
 - ケーブルなしでコネクタ接続
 - ROC側のコネクタ変更が必要





ROC固定台の裏
にCDBを固定し
たらどうだろう。

ROC裏面の温度



2021/8/20

重イオンMT



- 4年生 杉山さん

2021/8/24

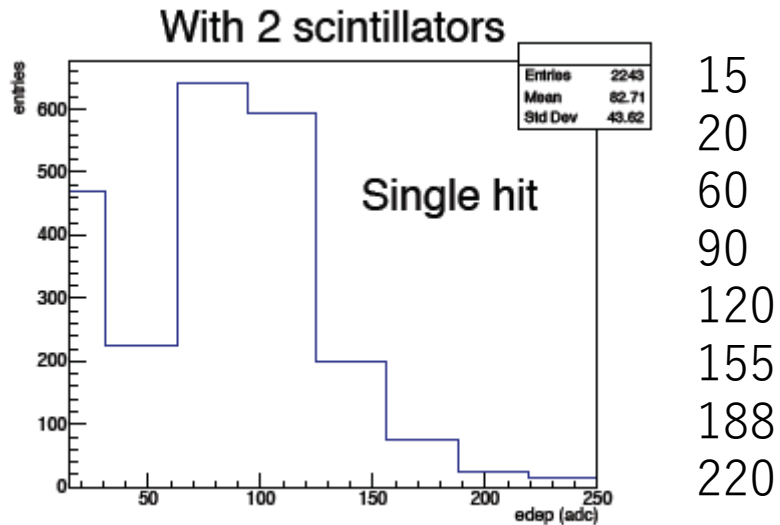




2021/8/24

DAC value difference

ChengWei's plot



HanSheng's DAC value

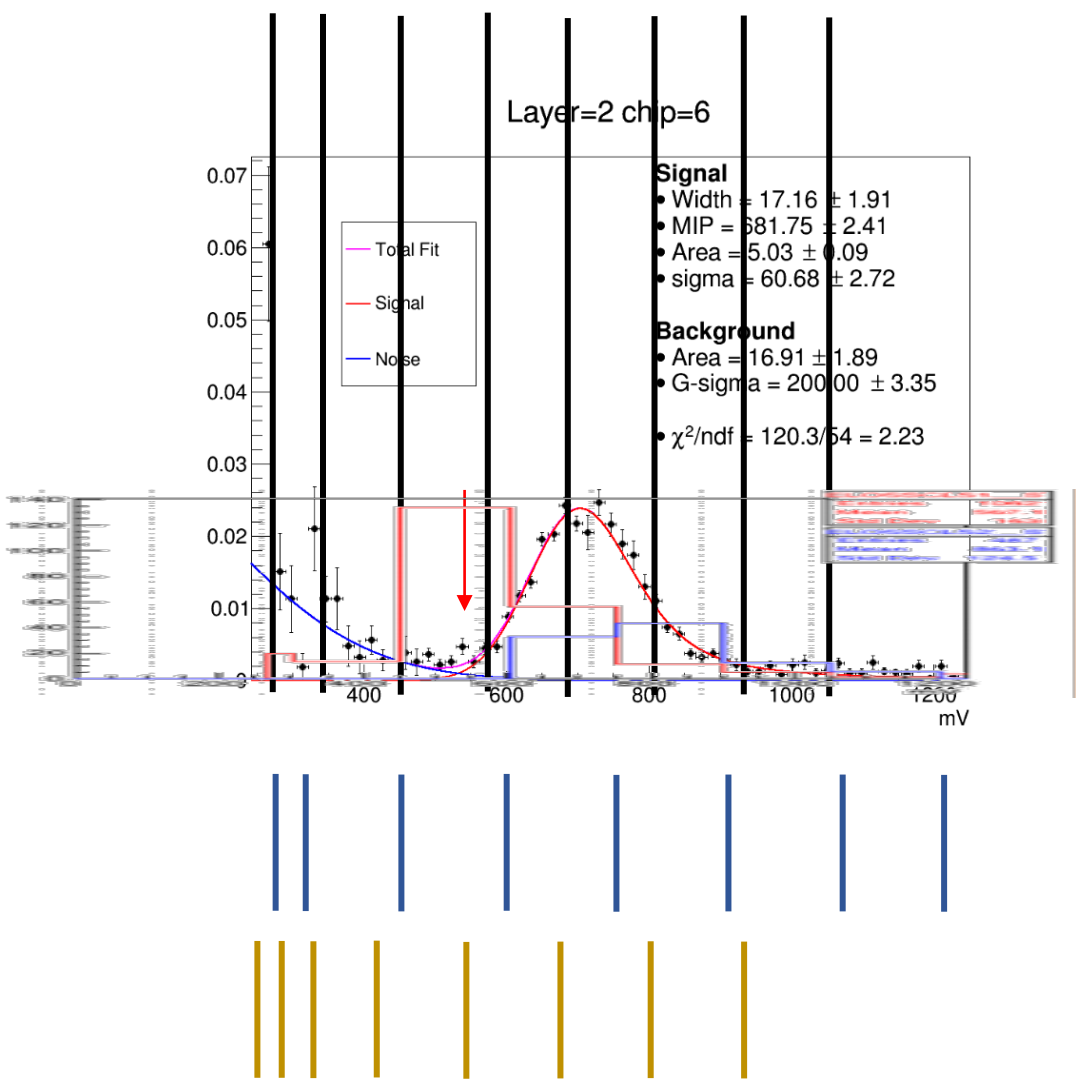
DAC0	15
DAC1	23
DAC2	60
DAC3	98
DAC4	135
DAC5	173
DAC6	210
DAC7	248

NWU

	設定値
DAC0	20
DAC1	23
DAC2	48
DAC3	98
DAC4	148
DAC5	172
DAC6	223
DAC7	248

- We are using the different DAC setting for the cosmic and the source test.
 - Should use the same setting
- ChengWei's setting is likely equal interval
- HanSheng's and NWU has some weight (larger interval for higher DAC)
- We need to tune the DAC value for QA and sPHENIX experiment.

MIPピークとDAC位置



	設定値	電圧mV
DAC0	15	270
DAC1	30	330
DAC2	60	450
DAC3	90	570
DAC4	120	690
DAC5	150	810
DAC6	180	930
DAC7	210	1050

DAC 設定値	対応電圧 [mV]
15	270mV
23	300mV
60	450mV
98	600mV
135	750mV
173	900mV
210	1050mV
248	1200mV

FPHX
初期値

8

16

32

48

80

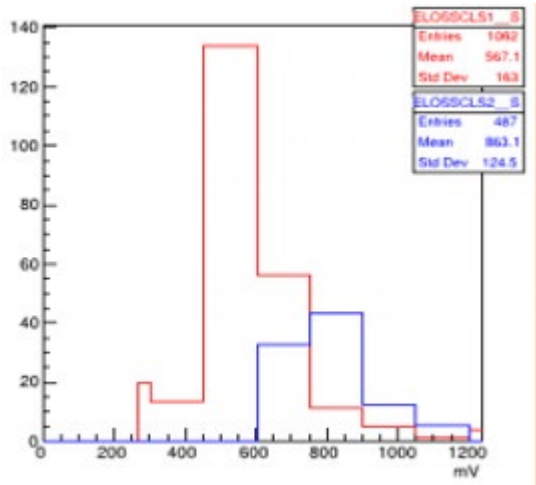
112

144

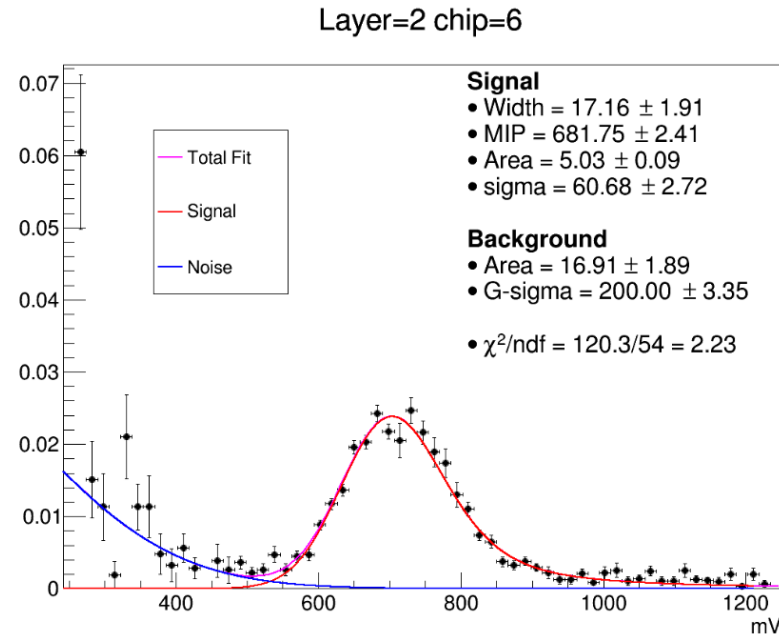
176

MIP peak from the beam test and cosmic

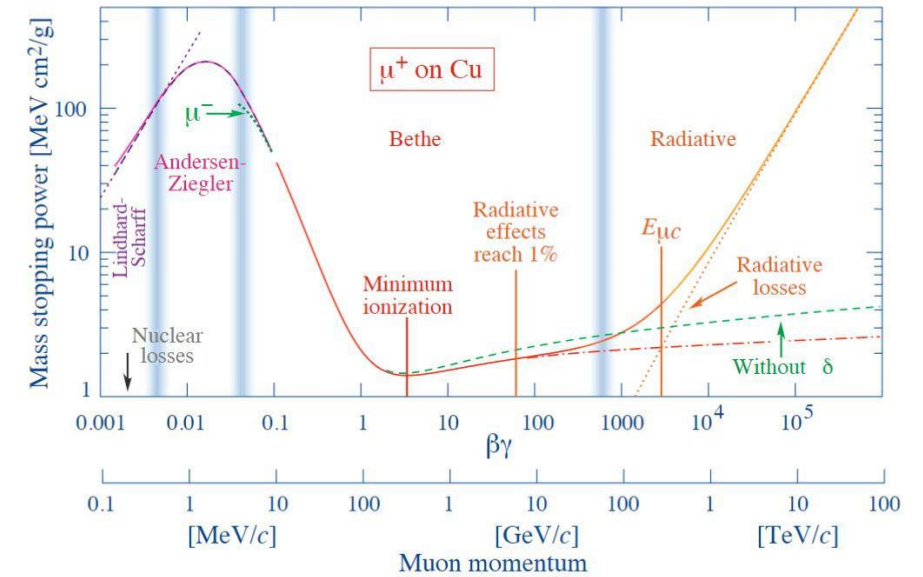
Cosmic ray



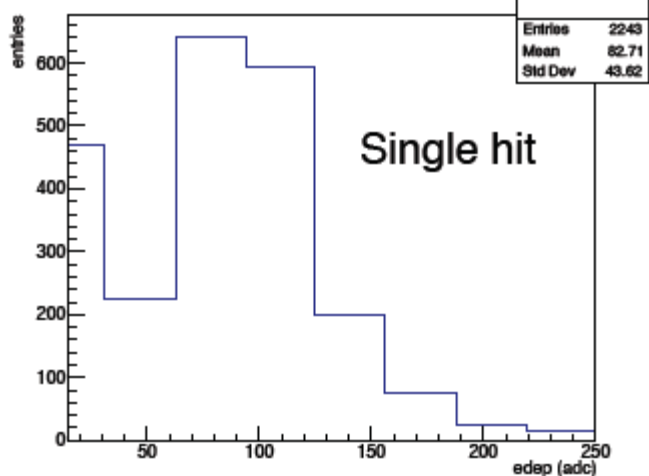
Beam test (120GeV proton)



dE/dx in PDG



ChengWei's plot
With 2 scintillators



- Peak position at the beam test is higher than that from cosmic ray. This can be understood by the relativistic rise for high energy particle.
 - 120 GeV proton beam at beam test
- $V = 210 + 4 \cdot \text{DAC} \rightarrow \text{DAC}=100 \rightarrow V=600\text{mV}$