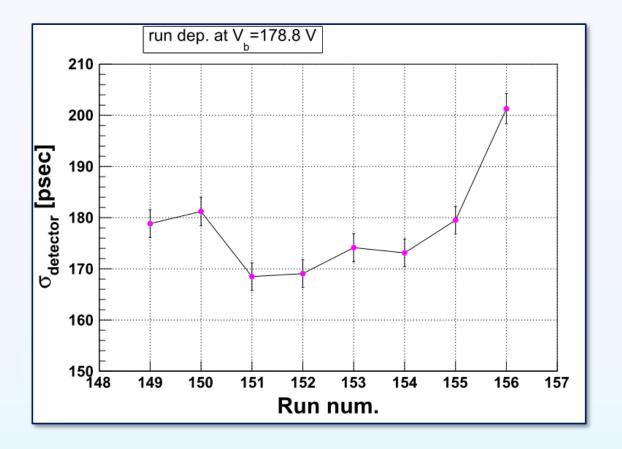
Status Report #28

2020. 05. 22 (Fri)

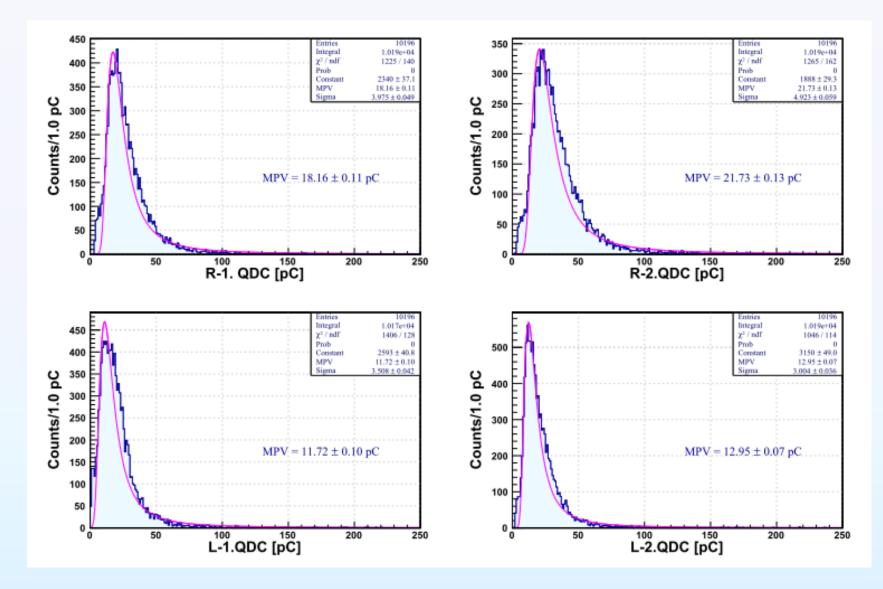
M1 FUJIWARA Tomomasa

生活リズム崩壊太郎

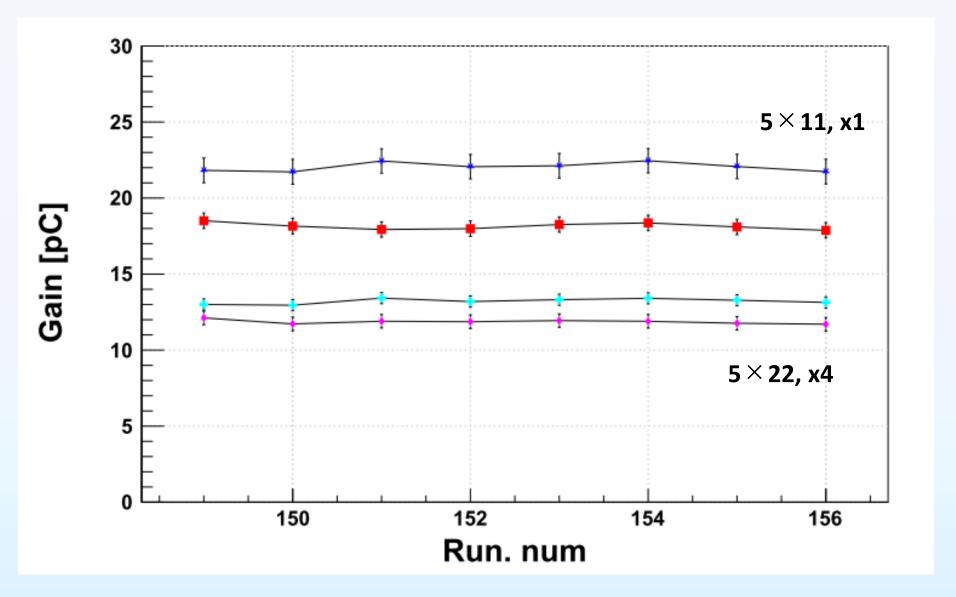
- 前回: Vb=178.8 V での時間分解能に安定性が見られない
- Pedestalは安定しているように見える
- Gainを確認すべき by 永尾さん



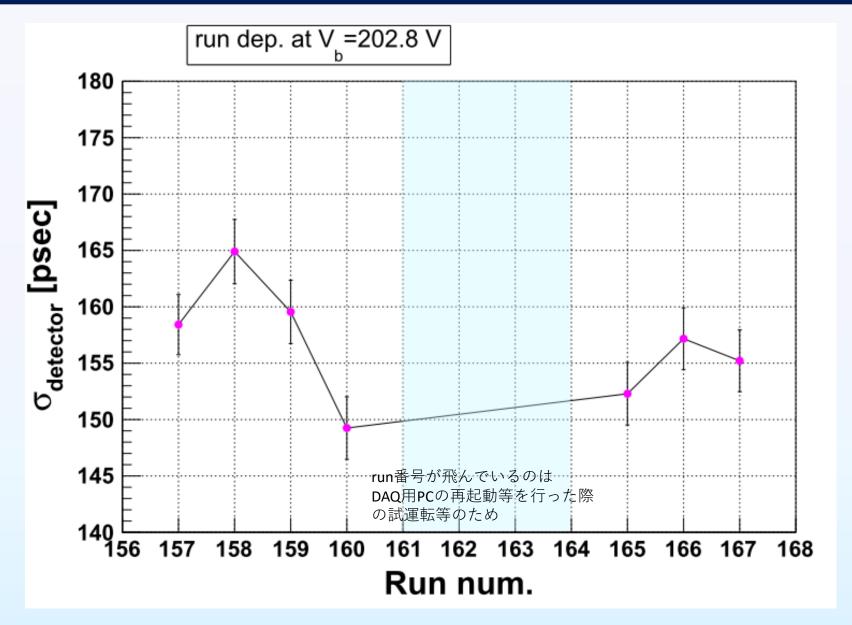
- ペデスタル=0に揃えたQDC
- Landau をフィットし, そのMPVを採用.



• Vb = 178.8 V

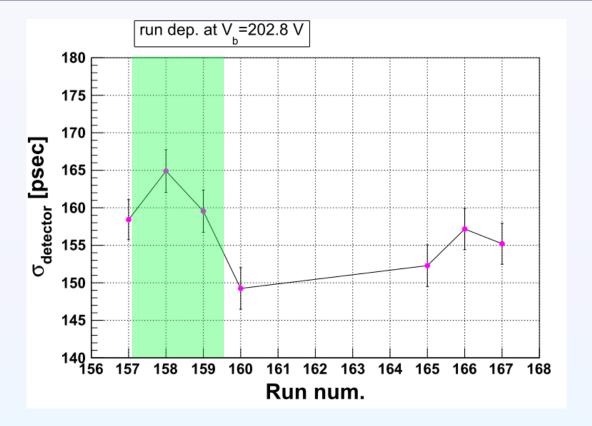


• run dependence (V=202.8 V)

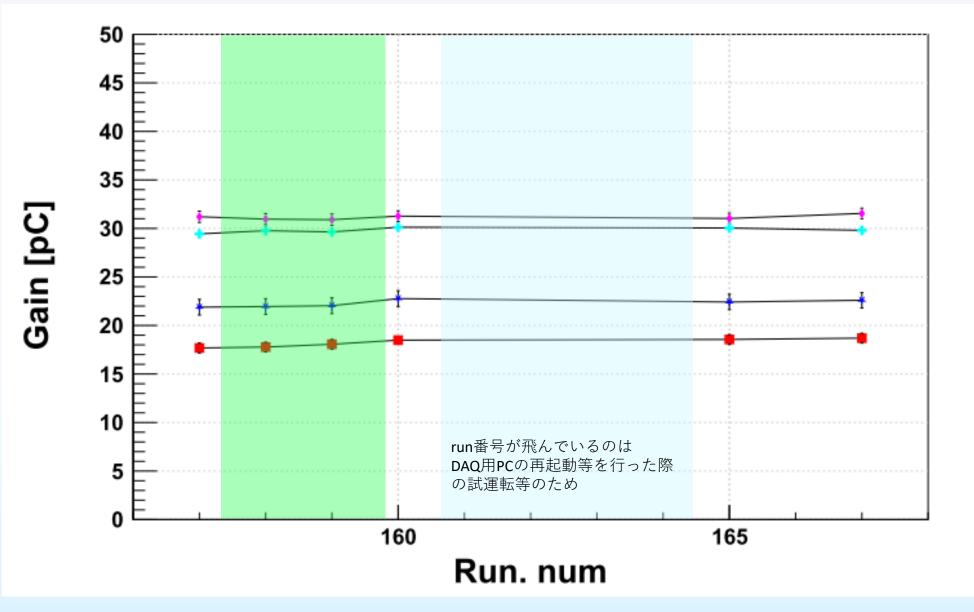


run dependence (V=202.8 V)





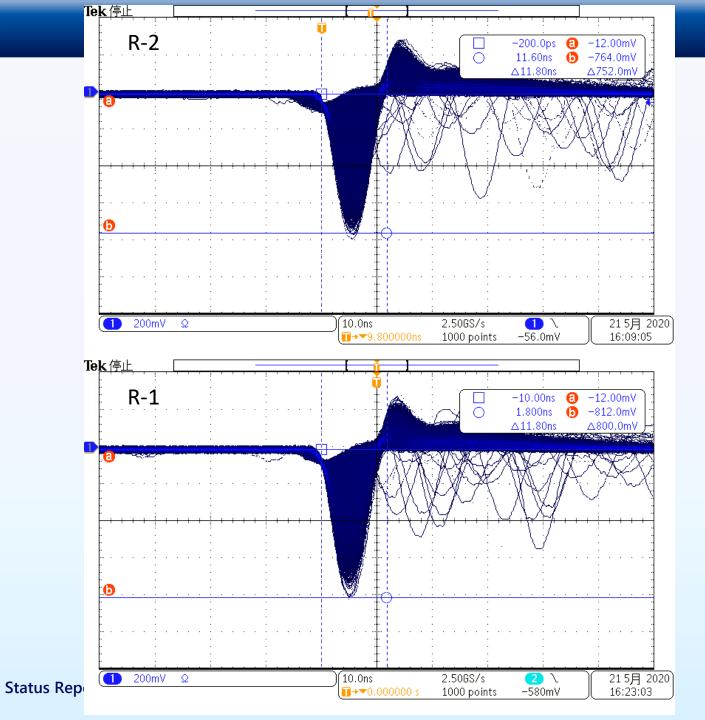
• Vb = 202.8 V

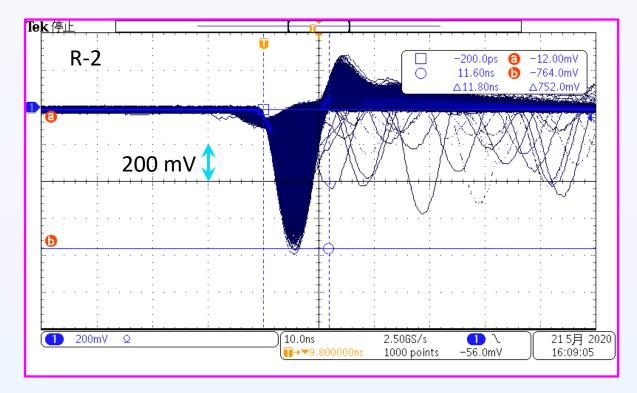


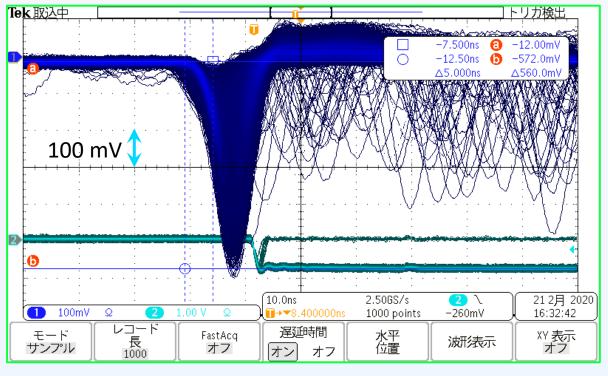
New Board

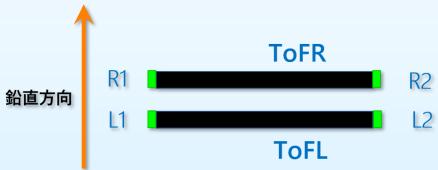
- V = 89.4 V (44.7 V/mppc)
- MIP: ~ 750-800 mV





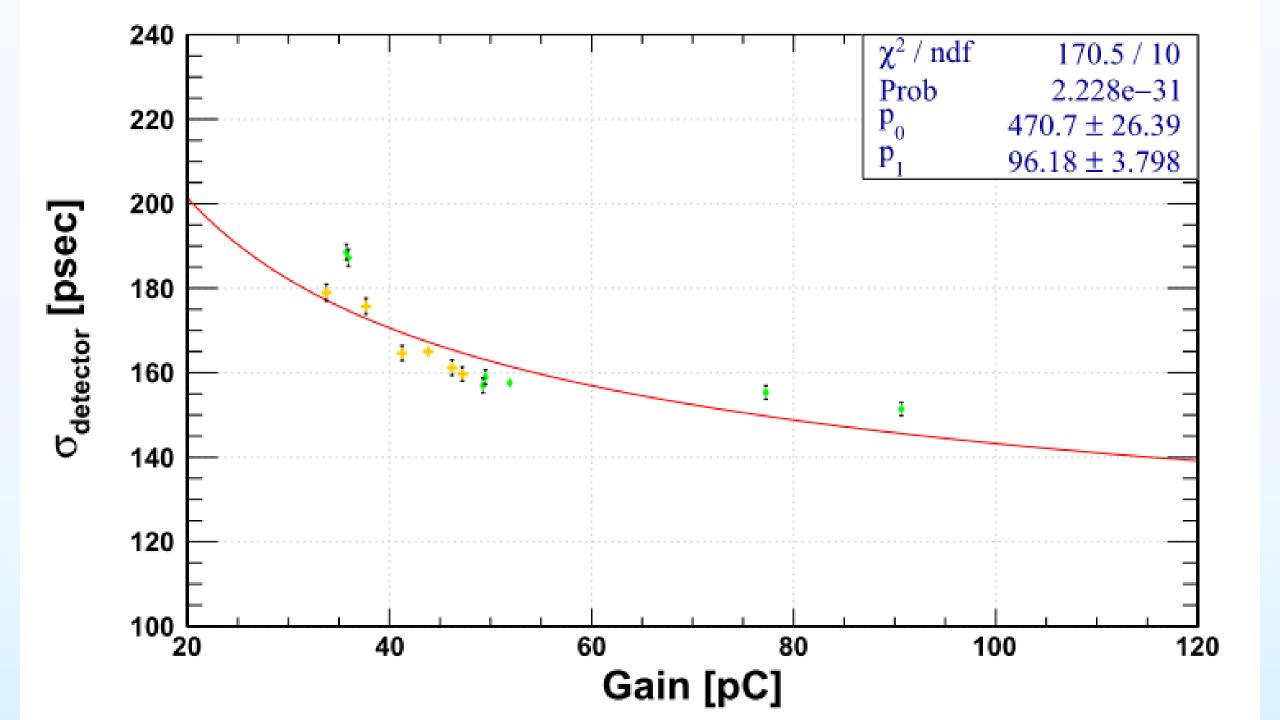


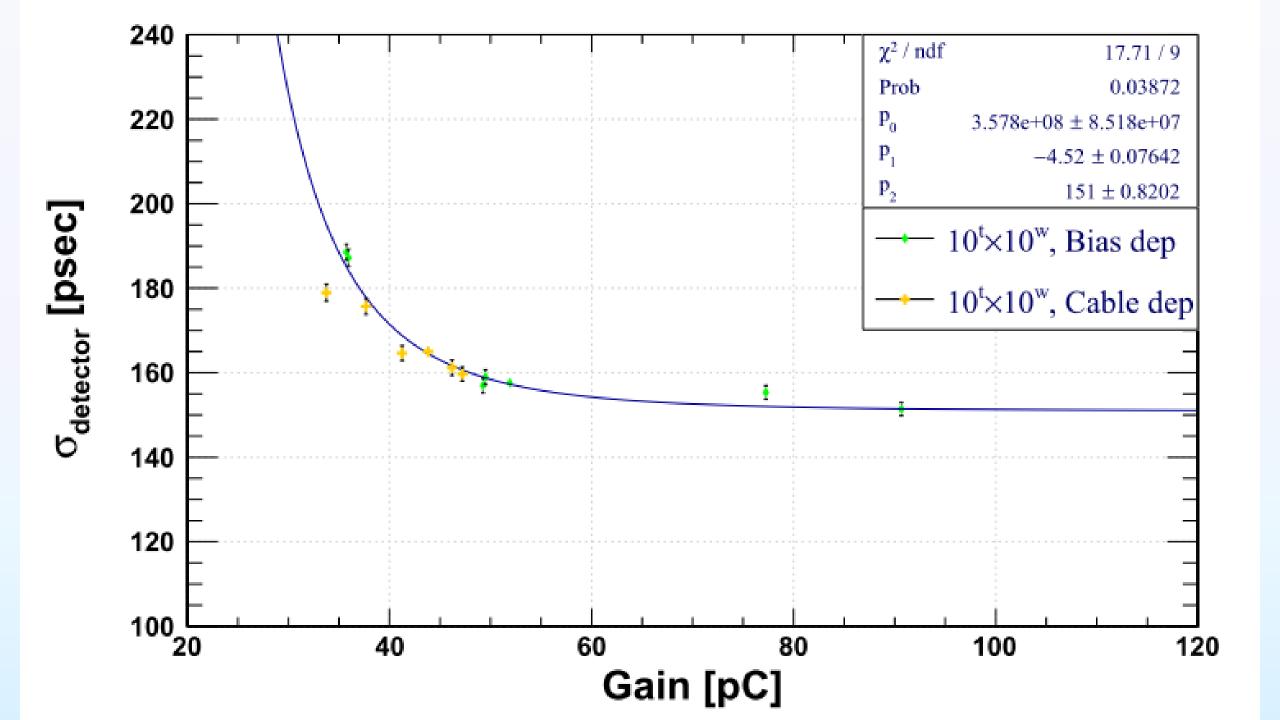




Right: old board (x1, series)
Left: New board (x2, series)

- Test for MPPC*2, 直列 w/ 5^t×11^w ⇒ 昨日変更, 現在測定中.
- G4 simulation
- 卒論:書き終わりました.現在永尾さんに確認お願い中です.





FCN=17.7076 FROM MIGRAD STATUS=CALL LIMIT 1346 CALLS 1347 TOTAL

EDM=0.362068 STRATEGY= 1 ERROR MATRIX UNCERTAINTY 22.6 per cent

EXT PARAMETER APPROXIMATE STEP FIRST

NO. NAME VALUE ERROR SIZE DERIVATIVE

1 p_{0} 3.57822e+08 8.51829e+07 3.68699e+07 -7.94208e-08

2 p {1} -4.52024e+00 7.64248e-02 -3.52813e-02 -9.26416e+01

5*44

3 p {2}

FCN=4.33541 FROM MIGRAD STATUS=CONVERGED 178 CALLS 179 TOTAL EDM=2.71327e-07 STRATEGY= 1 ERROR MATRIX ACCURATE EXT PARAMETER STEP FIRST

1.50965e+02 8.20225e-01 3.62354e-01 -8.56371e-01

NO. NAME VALUE ERROR SIZE DERIVATIVE
1 p_{0} 6.14701e+02 3.69061e+01 6.78043e-03 6.94860e-05
2 p_{1} -7.84733e-01 1.04910e-01 5.76421e-06 4.91859e-02

3 p {2} 1.36744e+02 1.88633e+01 1.37142e-03 1.73894e-04

5*11

FCN=0.323421 FROM MIGRAD STATUS=CONVERGED 223 CALLS 224 TOTAL EDM=2.08363e-08 STRATEGY= 1 ERROR MATRIX ACCURATE EXT PARAMETER STEP FIRST

NO. NAME VALUE ERROR SIZE DERIVATIVE
1 p_{0} 5.19055e+02 8.88023e+01 3.25218e-03 -6.05626e-06
2 p_{1} -4.16223e-01 2.74344e-01 2.01451e-06 -2.37897e-03
3 p_{2} -1.42870e+01 9.65636e+01 8.68222e-04 -3.42190e-07

3 p {2} 1.30595e+02 1.24411e+01 1.04698e-03 -3.99219e-05

Cable dep. run

Initial : 001, 002 +1.2 : 015, 016 +2.4 : 017, 018 +3.2 : 026, 027 +9.6 : 029, 030 +16.0 : 032, 033