

Status Report #26

2020. 05. 08 (Thu)

M1 FUJIWARA Tomomasa

✓ Research

- Cosmic ray: check consistency at fix bias ($V_b=178.8$ V)
- Simulation: No progress (making mass square)

✓ Seminar

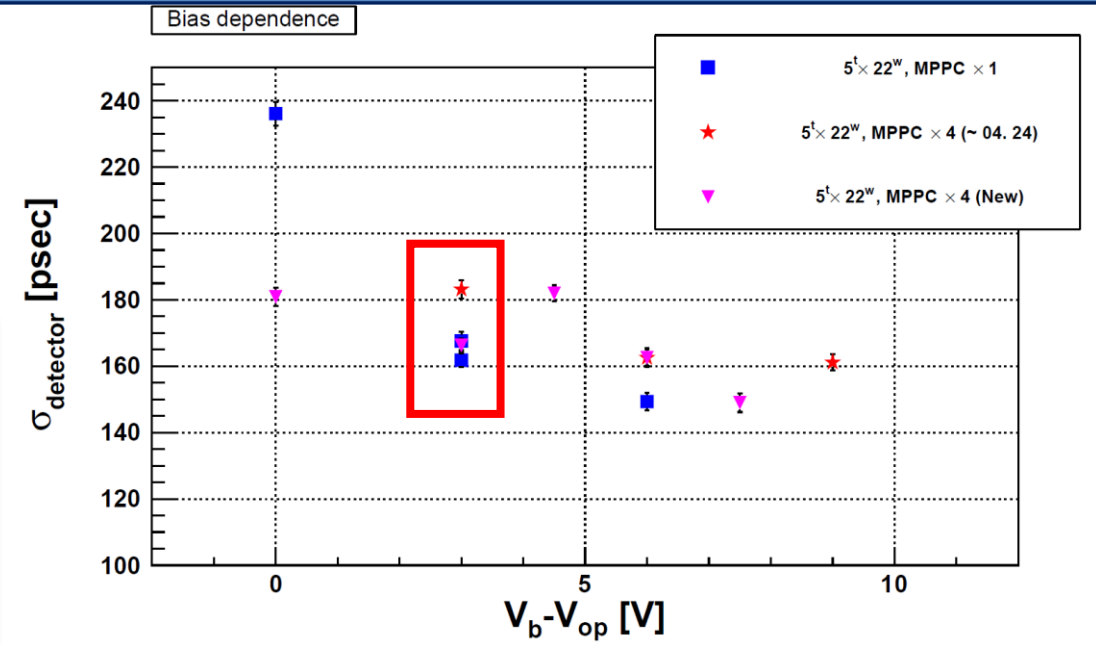
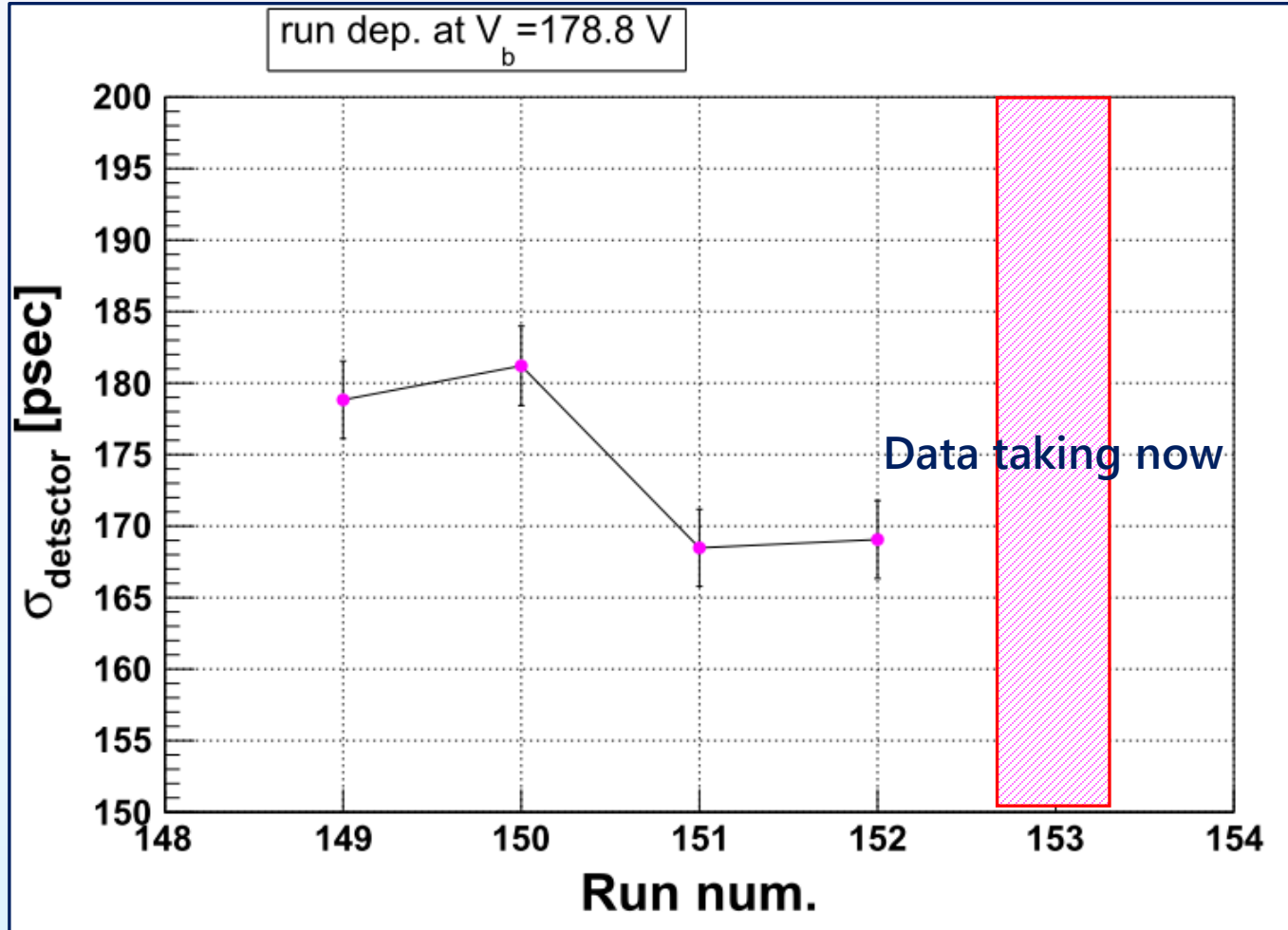
- Detector seminar (B4 & M1): Done (yesterday)
- ELS seminar: 来週月曜10:00~です. 只今準備中. 大炎土不可避

✓ Others

- Registration in this term
- TA (物理学実験II 計算機基礎実習, オンラインTA)

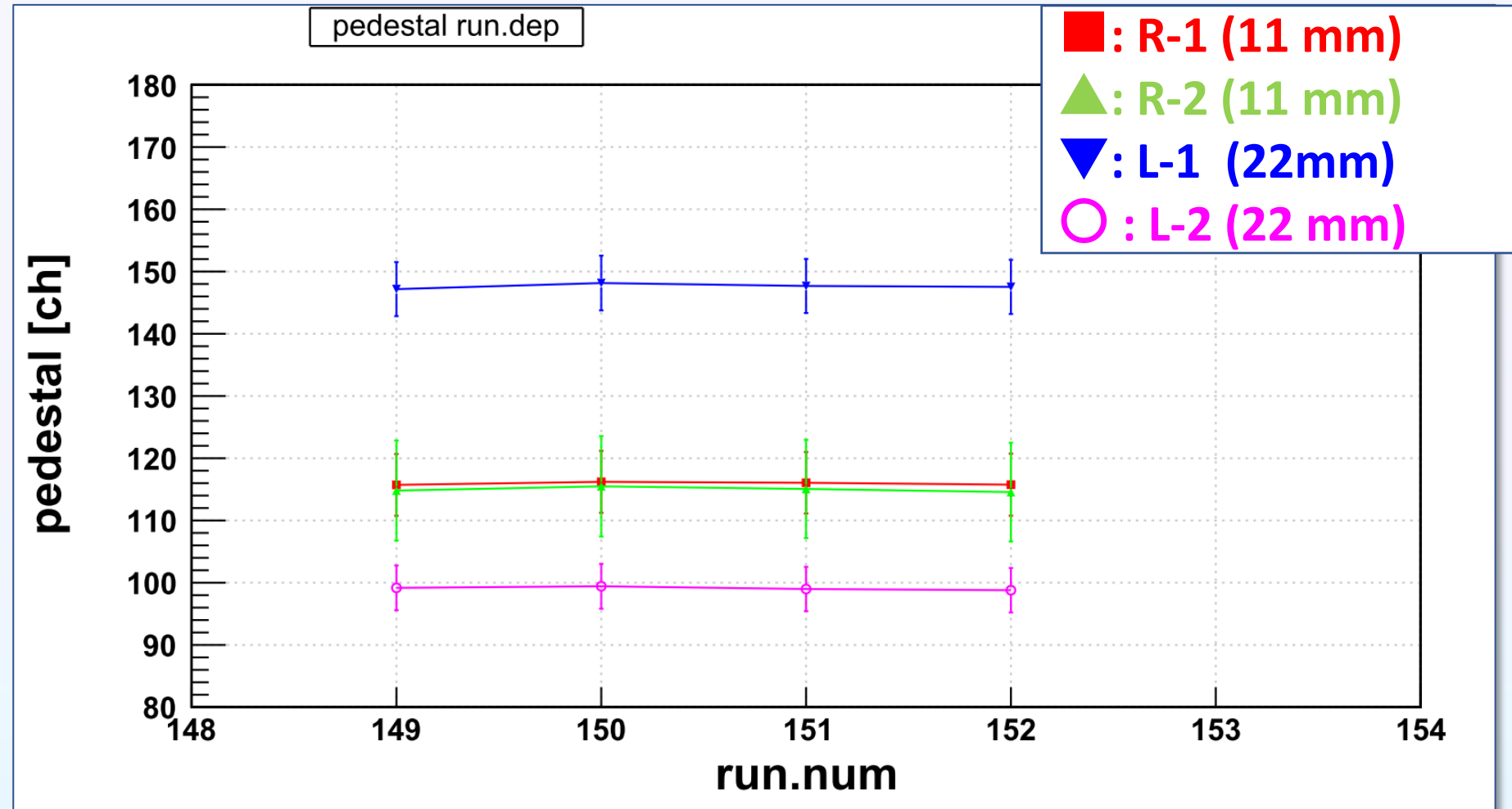
Cosmic ray

- 電圧をある値(今回は $V_b = 178.8$ V) に固定
- ~1日でデータを区切り変化を見る

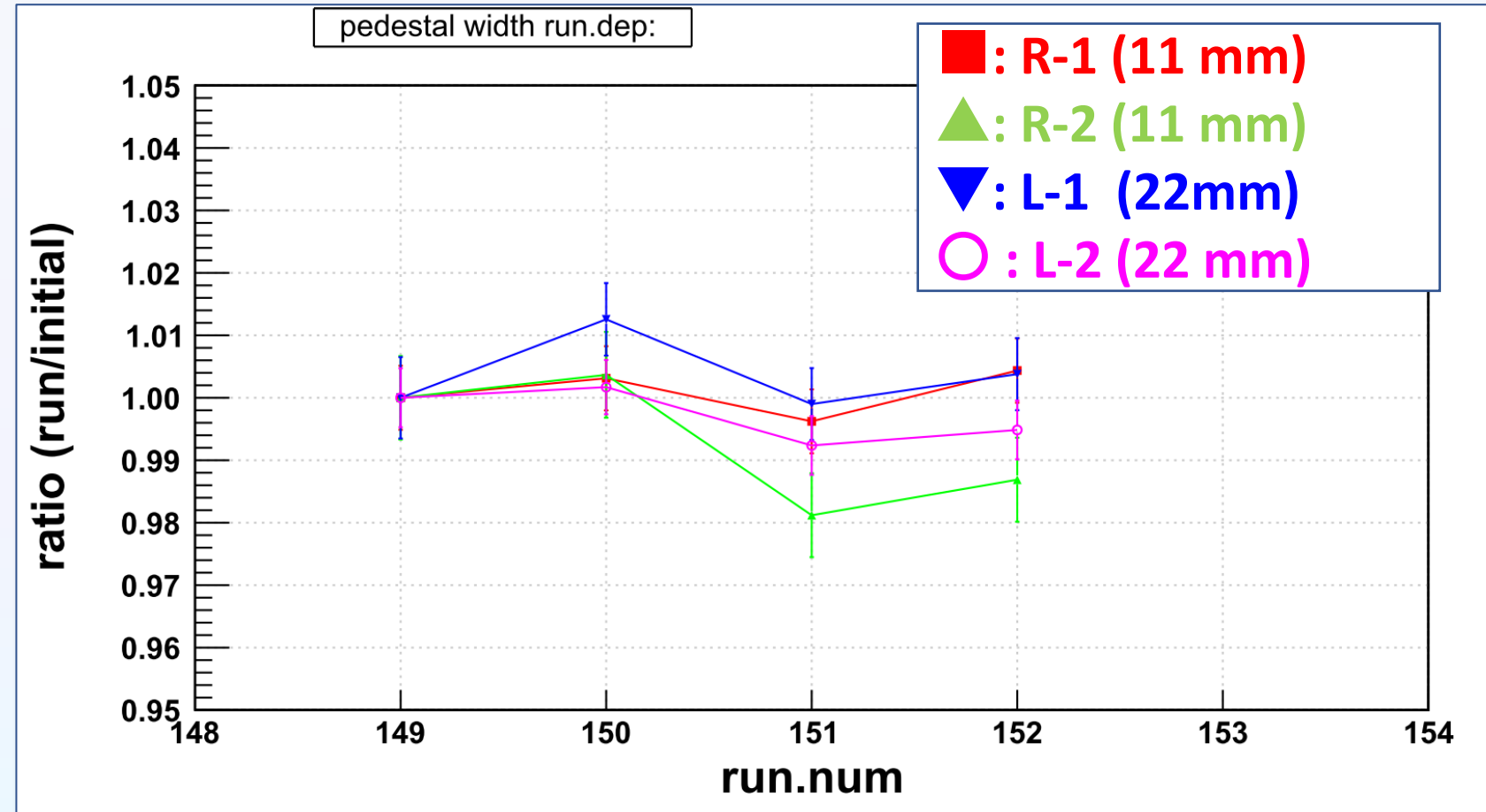


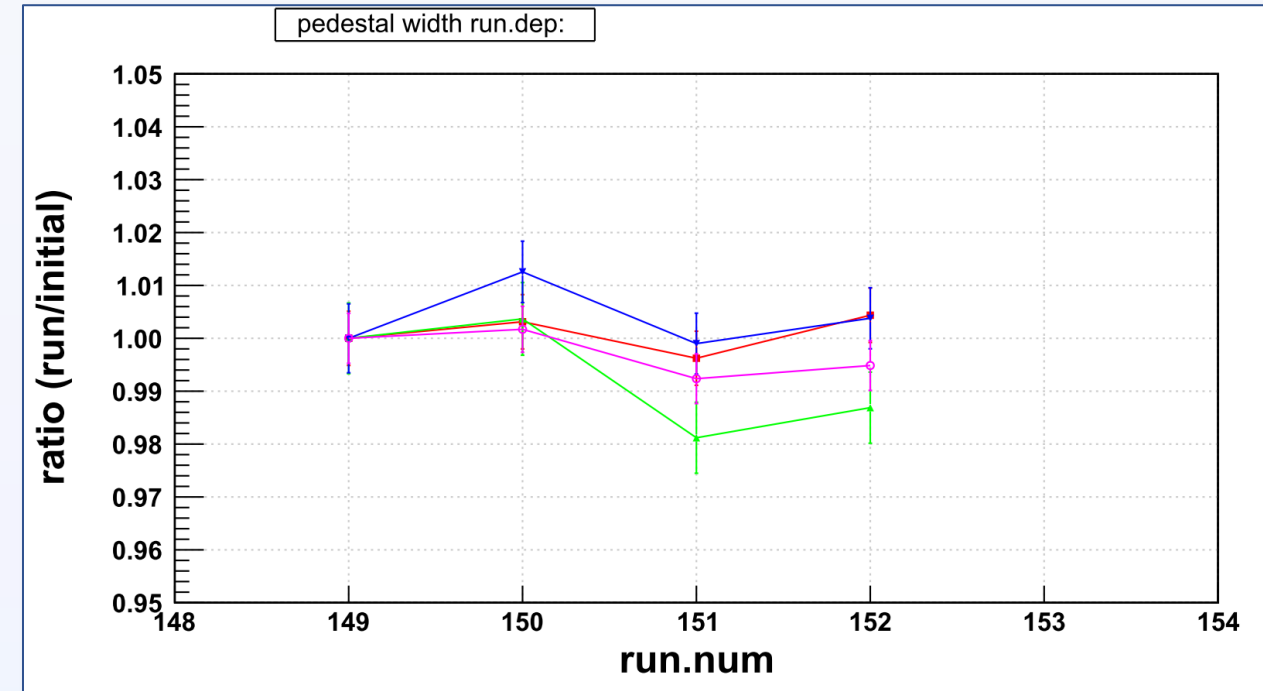
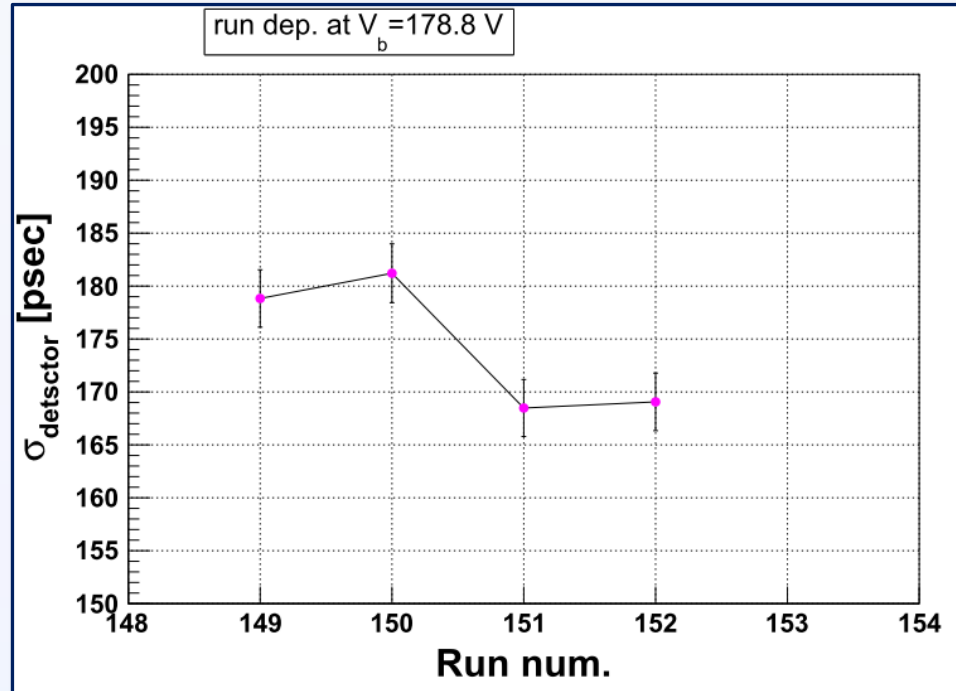
Fluctuate $\sim \pm 10$ ps even same bias

- Fluctuation of Pedestal
- change: ~ 1 ch or less



- Width of pedestal
- Evaluate the ratio between the run and initial value (at run149)
- ~ 2 % change





一見すると同じ傾向があるように見えるが、ペデスタルの幅の変化は1-2%程度
そこまで大きく影響するとは考えにくい

■: R-1 (11 mm)
▲: R-2 (11 mm)
▼: L-1 (22mm)
○: L-2 (22 mm)

✓ G4 Simulation

- Setting Target material
- Making mass square distribution → How to evaluate path length

✓ Cosmic ray

- Taking more data at the same bias (~10run)
- Test higher bias voltage (202.8 V)

✓ 卒論

- Write down ~ 25 – 30 %

