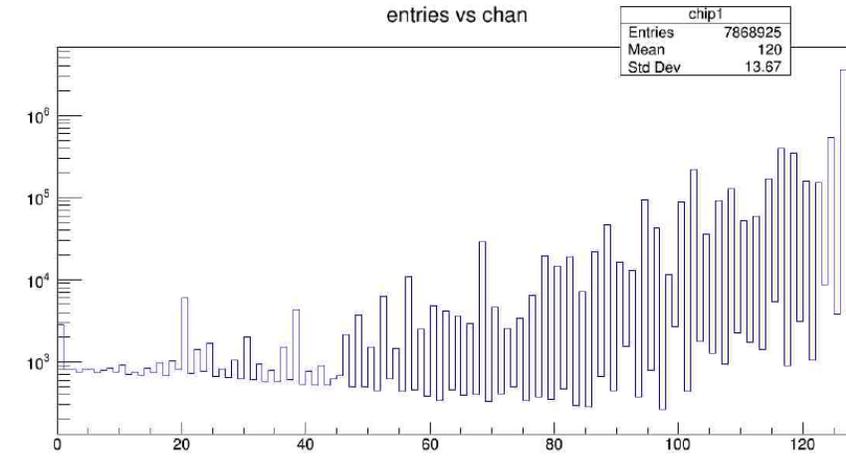


Source test at NWU

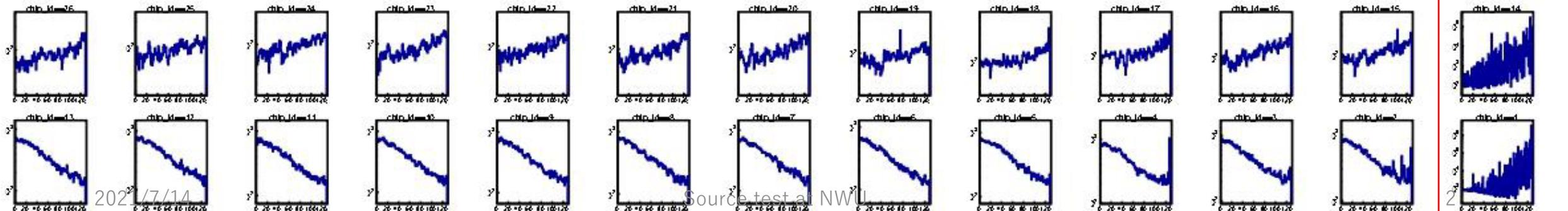
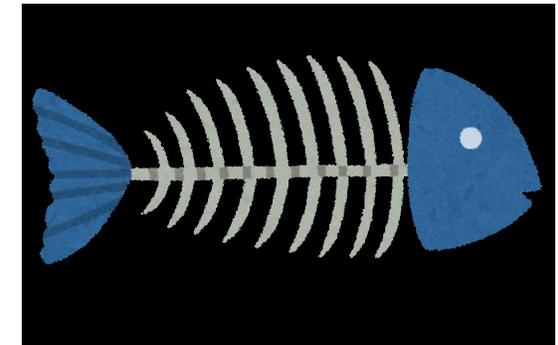
T. Hachiya, Yumika Namimoto, Runa Takahama, Miu Morita,
Mika Shibata, Maya Shimomura

Reminder

- We found the signal from the β source (^{90}Sr)
- Strange structure in chip 1 and 14
 - More noise and sharp peak in Ch-by-ch alternatively
 - Yumika found this and called “Fish-bone” like structure



- We wonder what the cause is?
 - Fixture? Power?

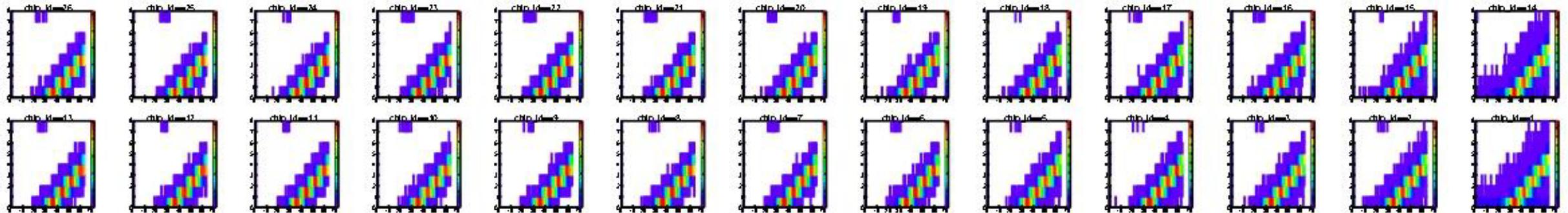


Test pulse with power-ON/OFF of the fixture control box

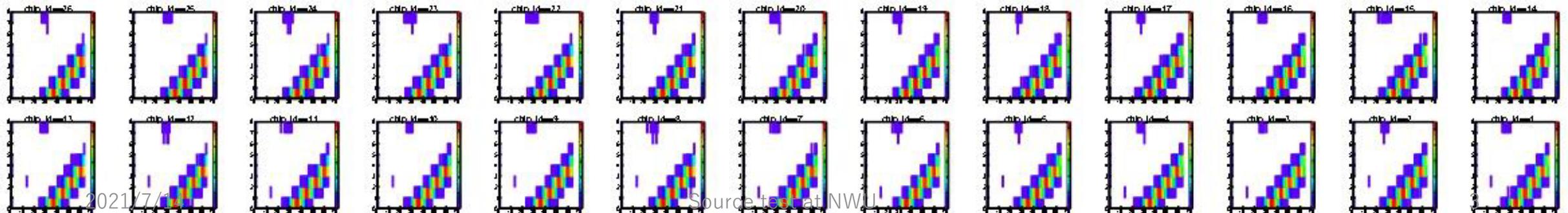
- Test pulse with ON/OFF of the box
 - Moving stage stopped.
- Power-ON shows a lot of noise but clean with power off
 - Clearly the control box generate noise



With ON of the box

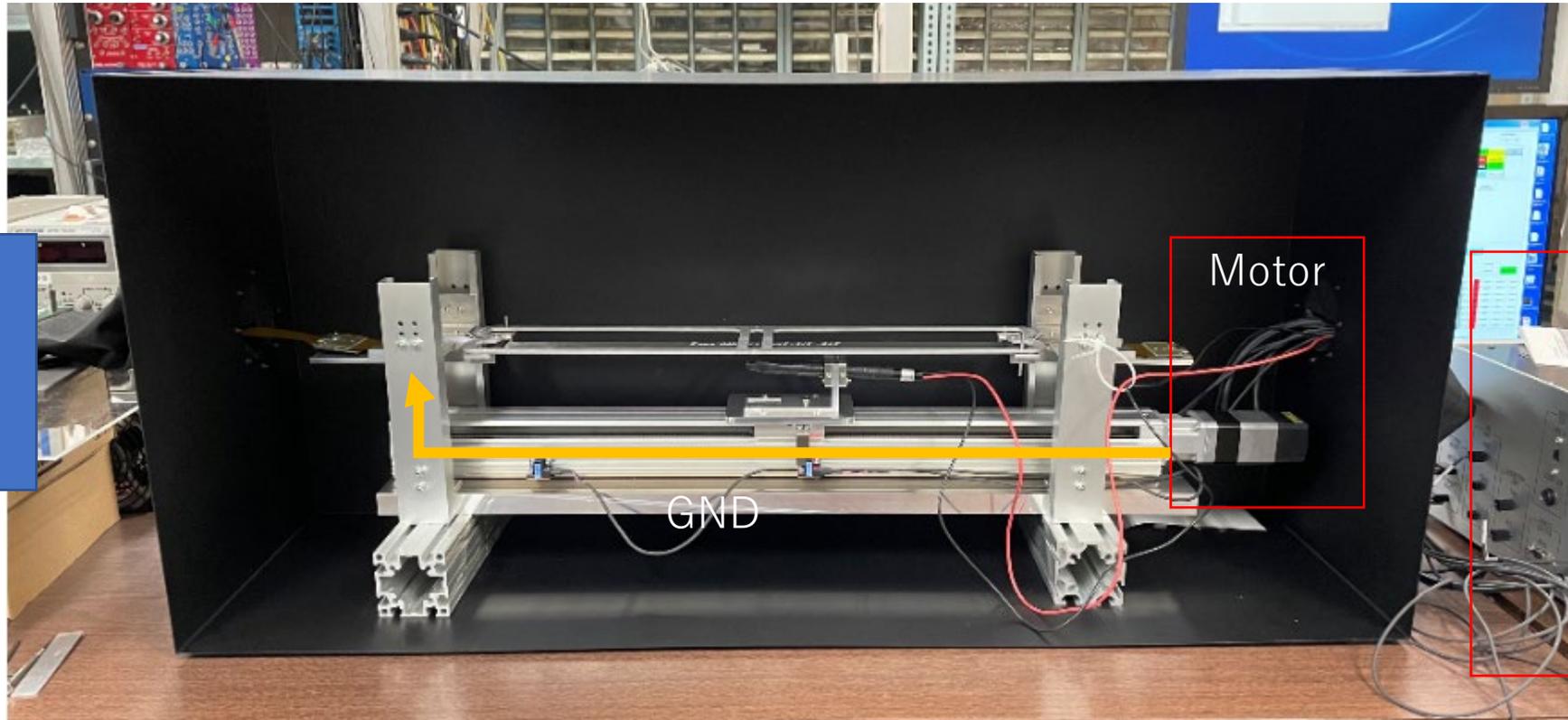


With OFF of the box



Checking grounding

AC-earth + DC GND



- We found that the ground of the controlbox(motor) is connected to the ladder through both fixture and GND line (AC earth + DC GND)
 - Guess the GND noise is wrapped around through these paths.

Summary

- Fish bone structure is investigated.
- Noise is generated by the control box of the fixture.
- Next
 - Try to reduce the noise in the box
 - Try to separate the power and GND of the control box with the readout system