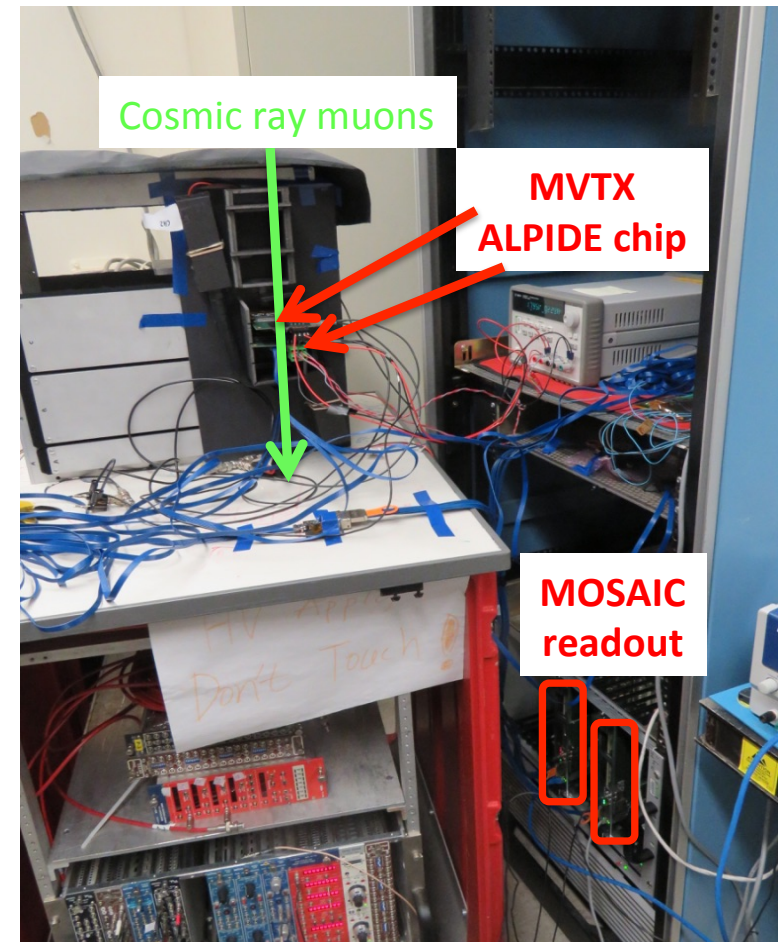
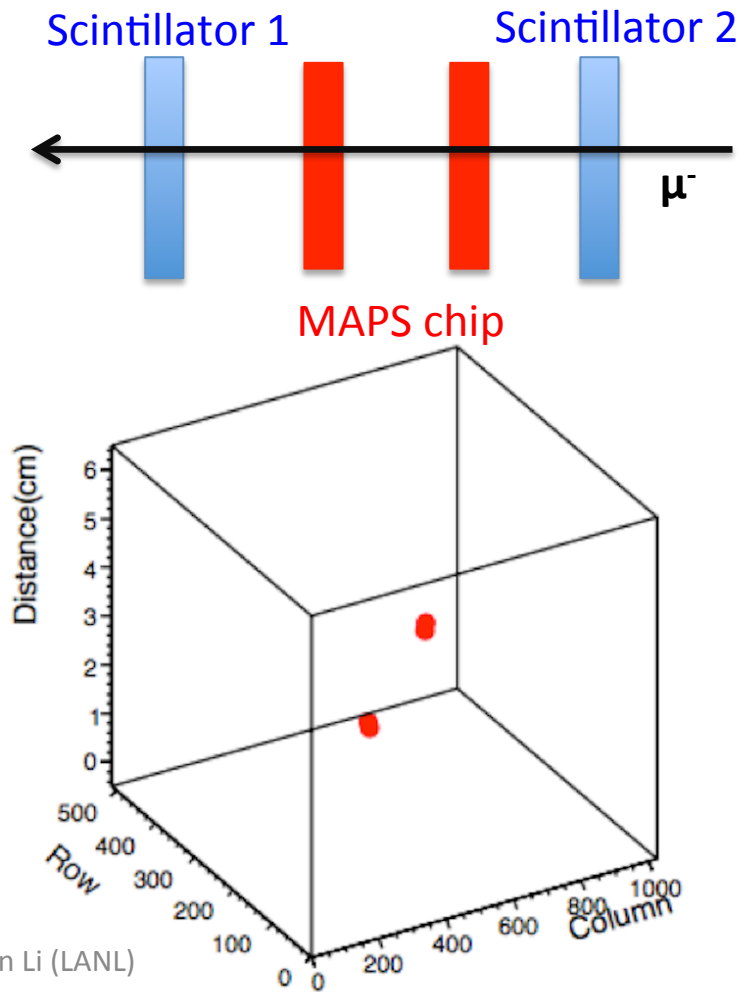


MVTX mosaic single chip/stave test status and plans

Xuan Li (LANL)

Status (I)

- Set up two layers of ALPIDE chips and run cosmic ray test with the coincidence trigger. Use the MOSAIC readout.
 - Clear track hits found. **Done**



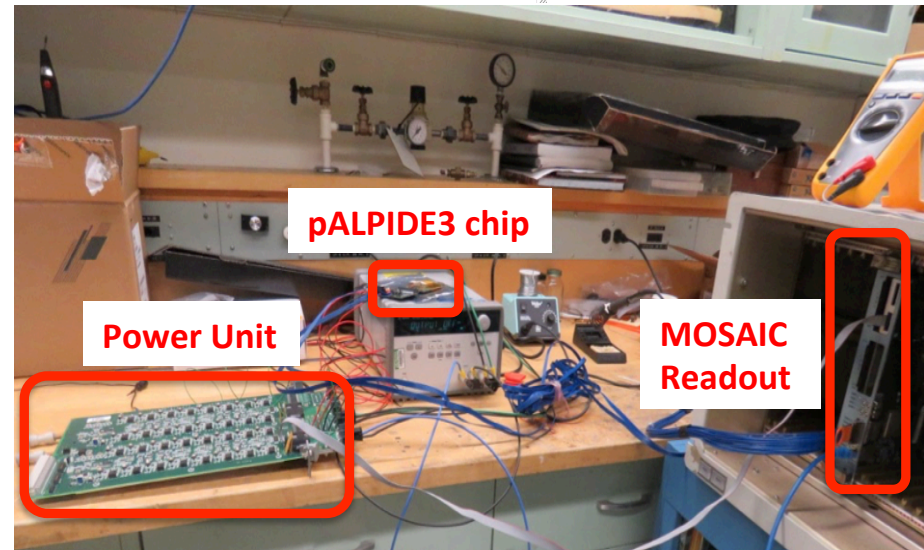
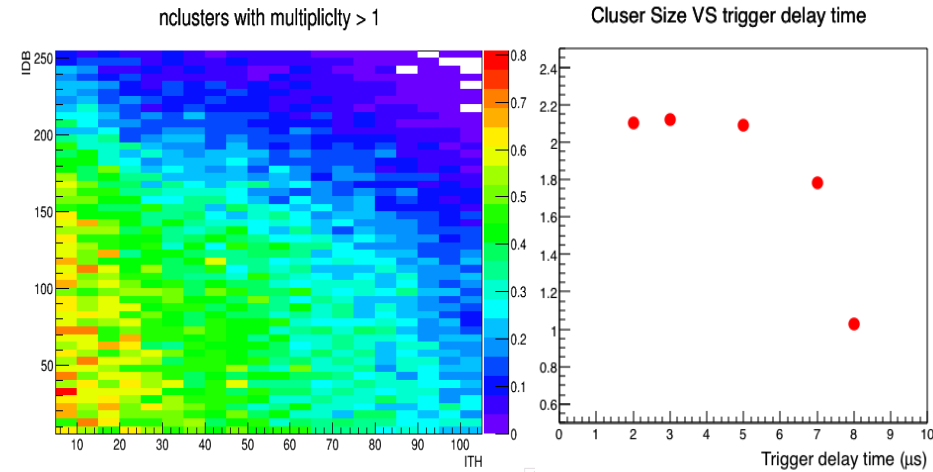
Status (II)

- Continue the source and cosmic ray test with different readout configurations:

- trigger delay time: **done**
- Threshold scan: **done**
- Bias voltage: **start soon**
- Readout speed: **start soon**

- The Power Unit:

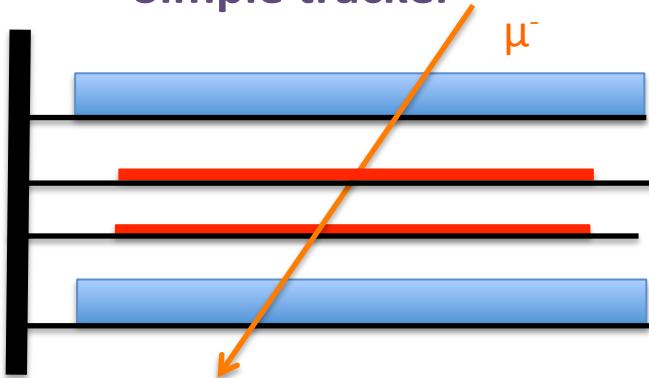
- Setup and communication with the MOSAIC board: **done**
- Communication with the full readout chain: **start later**



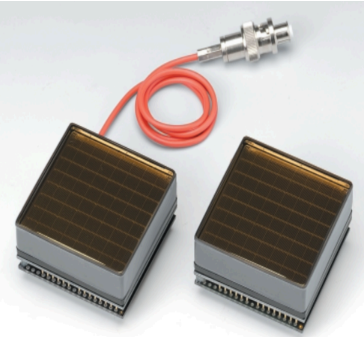
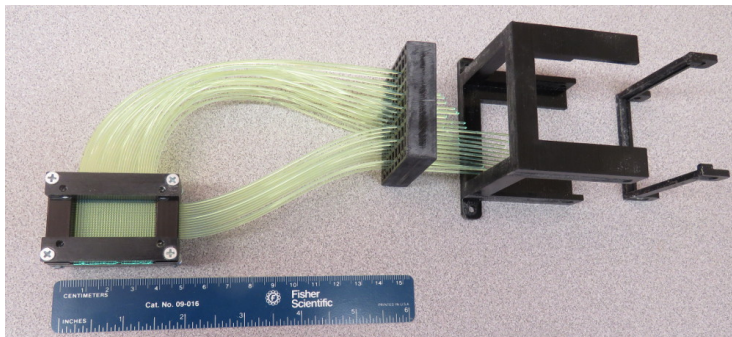
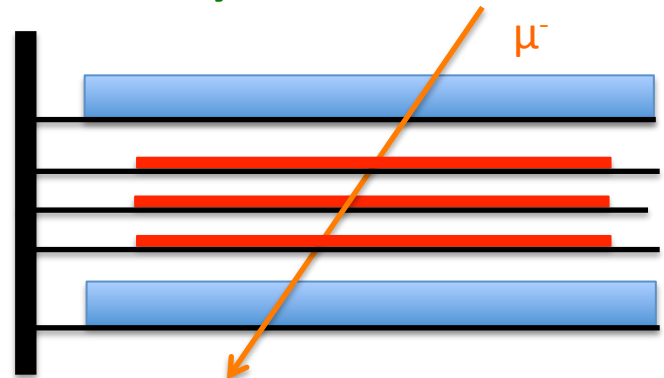
Plan

- Continue the source and cosmic ray test with different readout configurations:
- Develop the analysis package for multiple chip/stave cosmic ray test to study the efficiency, resolution etc.

Simple tracker



Efficiency and resolution tester

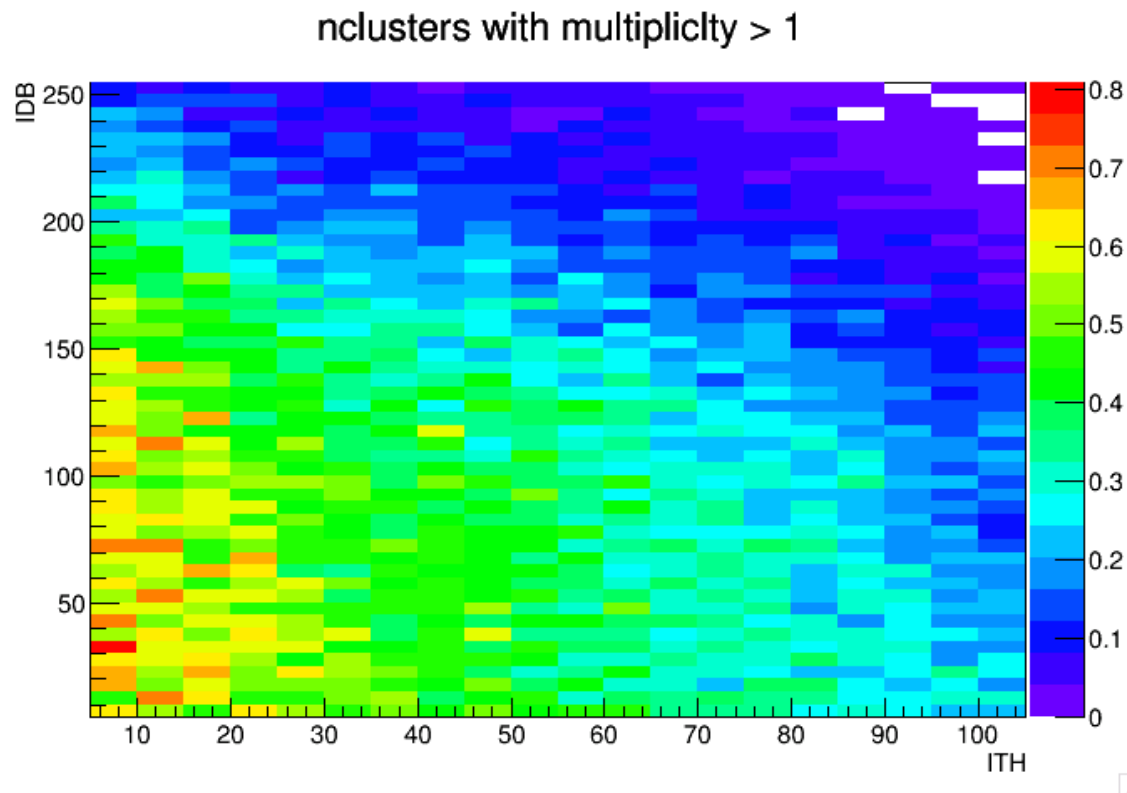


- Use the precise trigger system to determine the efficiency and align the chips.

Backup

Scan of IDB and ITHR parameters

Plot shows the rate (Hz) of multi-pixel clusters as a function of IDB and ITHR



External trigger generated by coincidence of PMT1 and PMT2
Rate in range 0.5 – 1 Hz

2/21/11

