

MOLLER ADC testing at W&M

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UMass Amherst

Setup at W&M



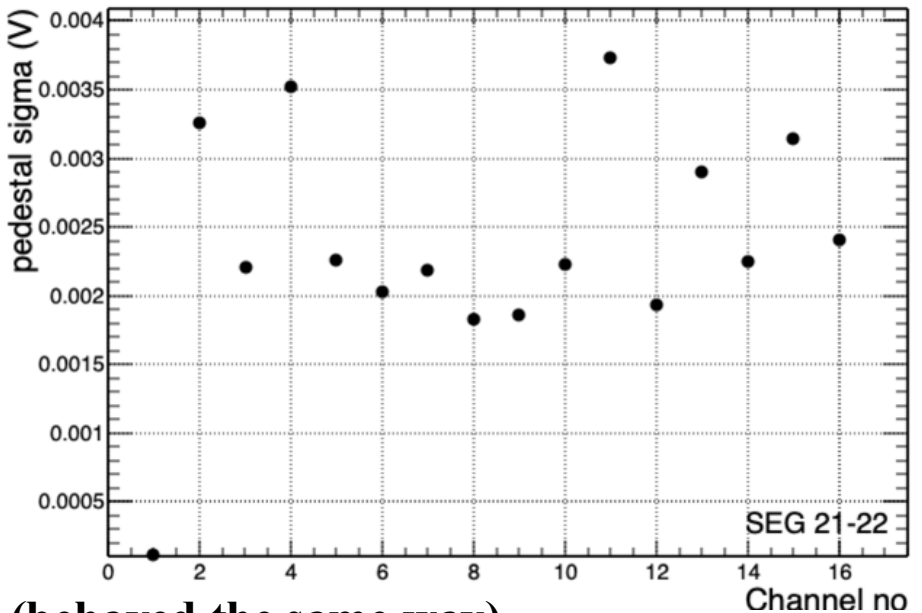
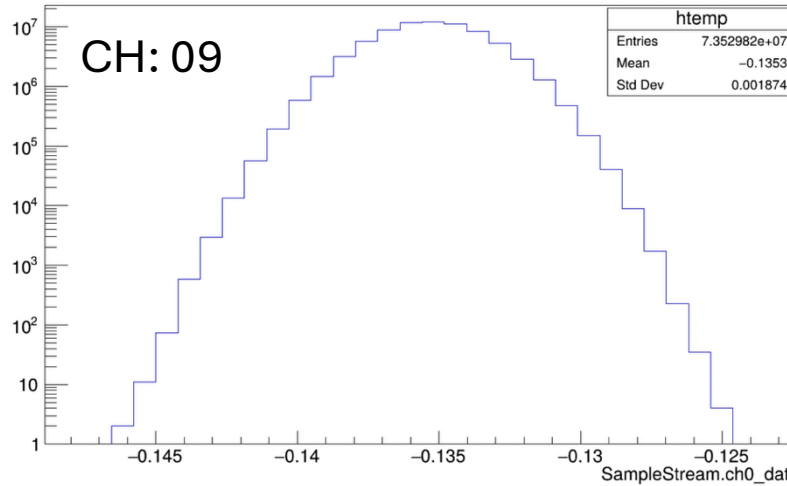
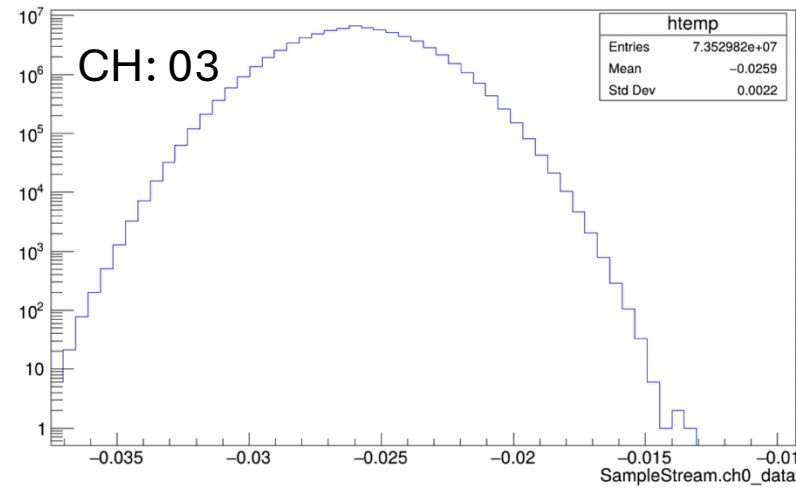
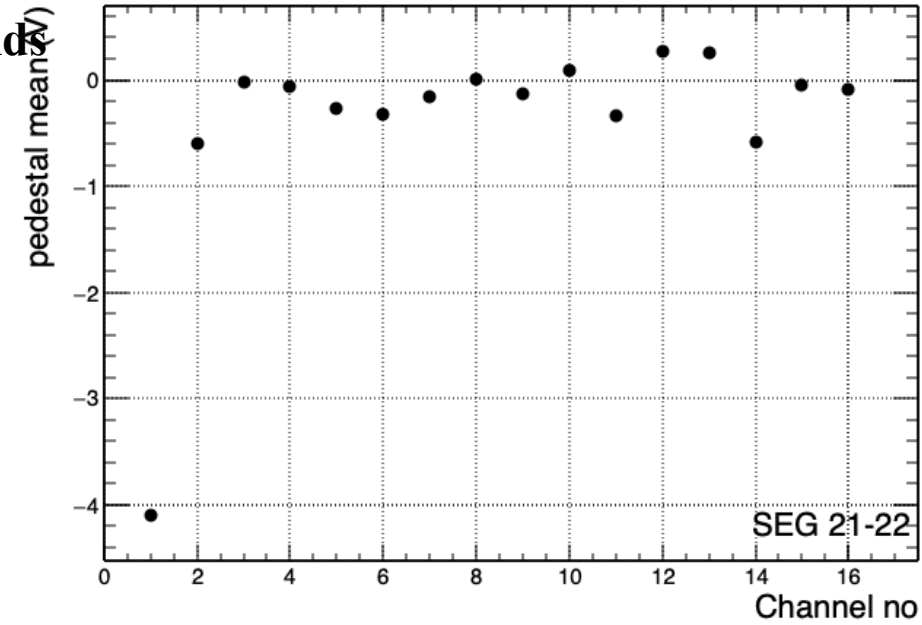
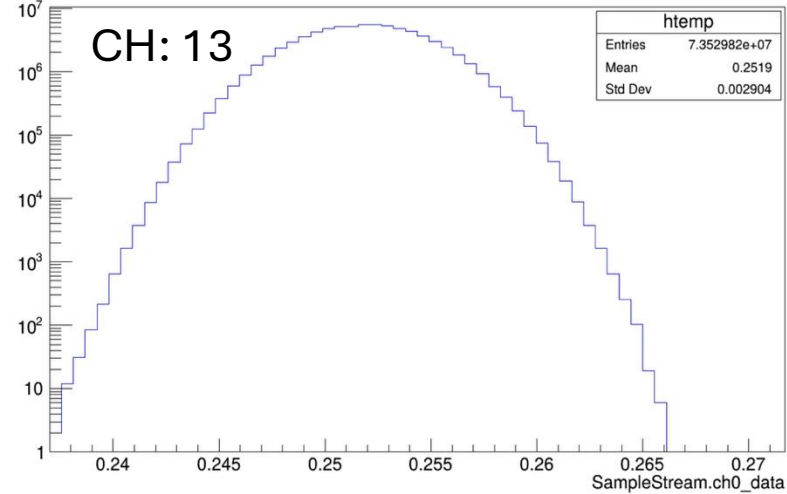
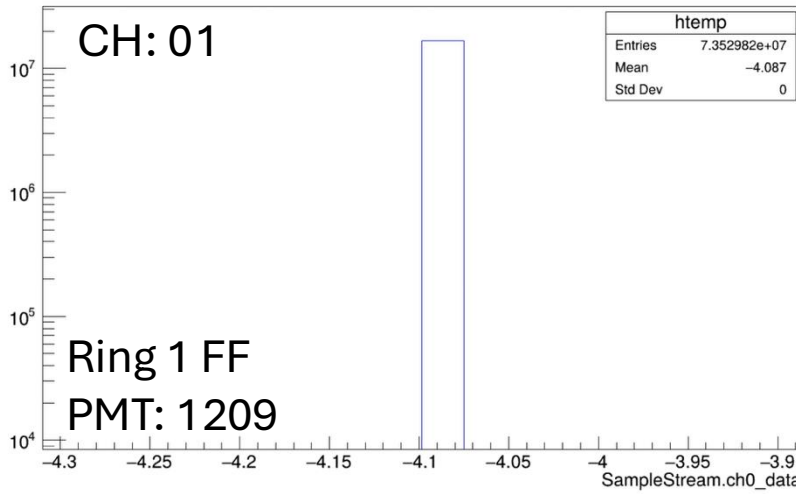
One MOLLER ADC (rev 2) has been setup at W&M (Thanks to Michael, Paul, Jon & Brynne)

Setup was very easy and straight forward ([Instructions](#)) (No CODA interface)

Took some pedestal run in the integration mode with fully instrumented segments 21 (FF) – 22 (BF)

Observation

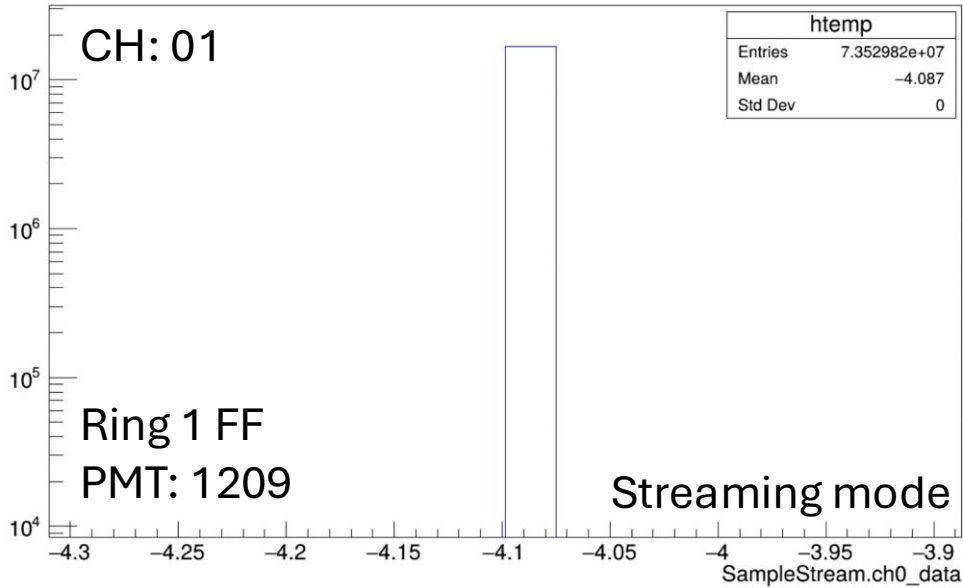
Readout all the 16 channels and only looked at the pedestal: duration 10 seconds



Only the CH 1 is showing the saturation behavior

Readout the individual channels at a time and all the channels simultaneously (behaved the same way)

Observation



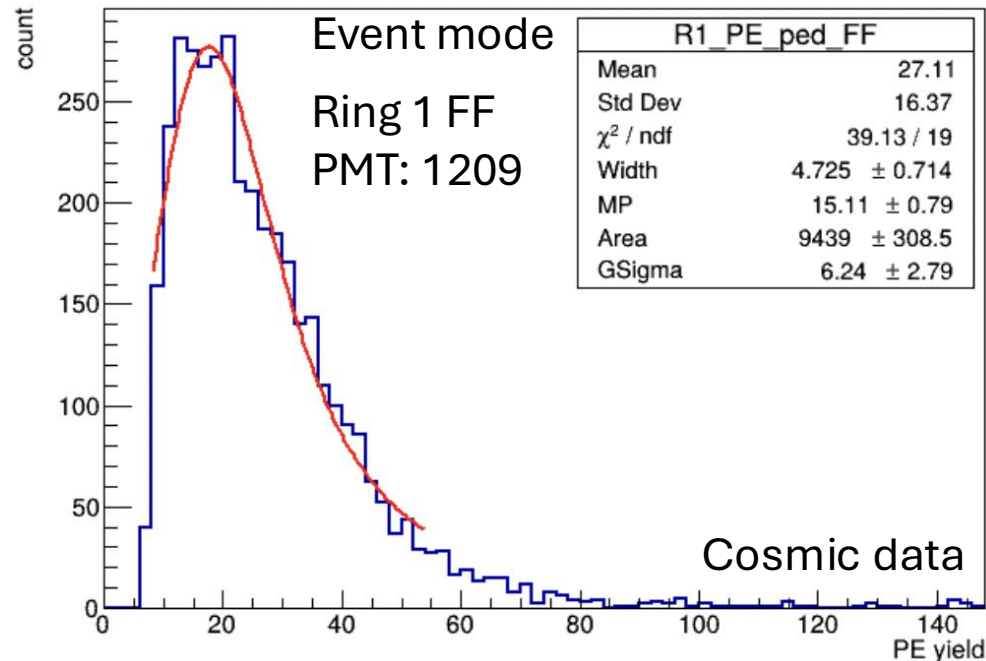
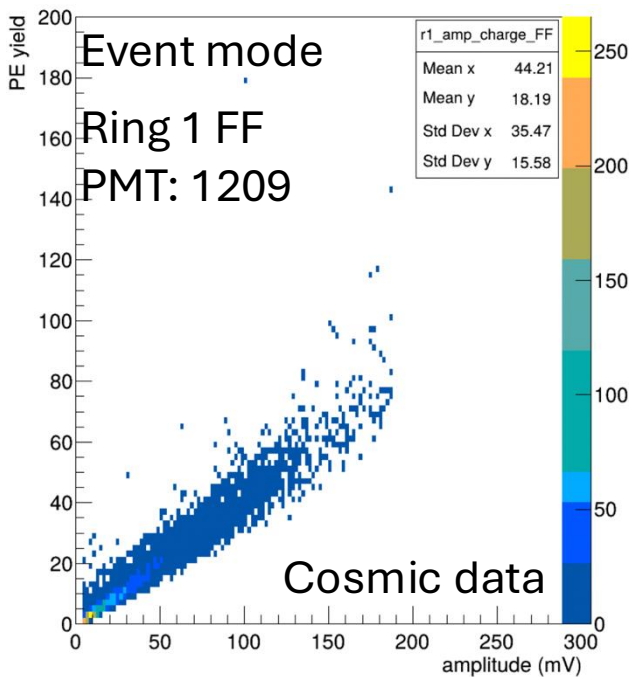
Used different twinax cables to eliminate the possibility of bad cable connection, **did not help**

Used different patch panel input output combination, **did not help**

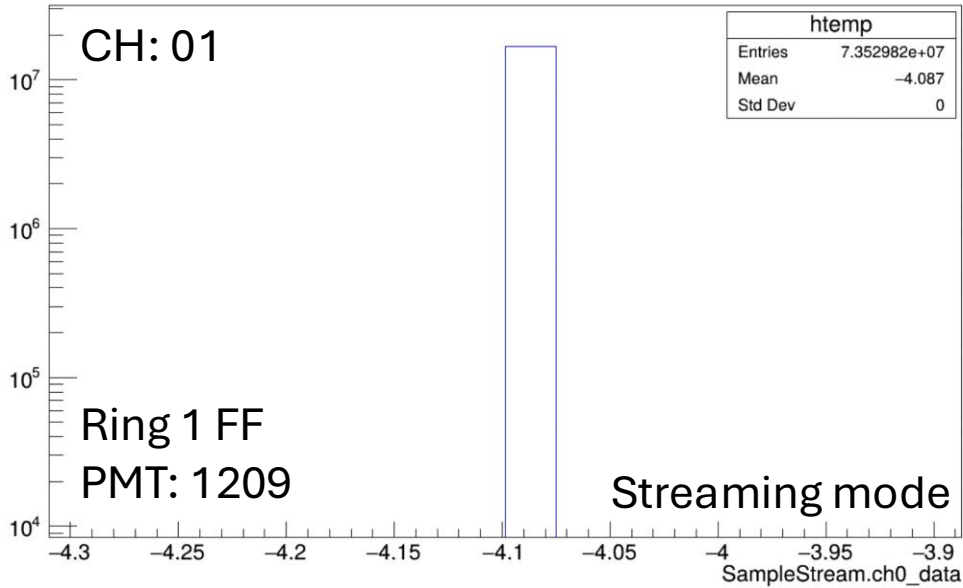
Used different LV DC-DC input, **did not help**

Used a different PMT+base combination for ch 01 and it gave expected gaussian distribution

The event mode data looks fine with the PMT+base combination



Observation



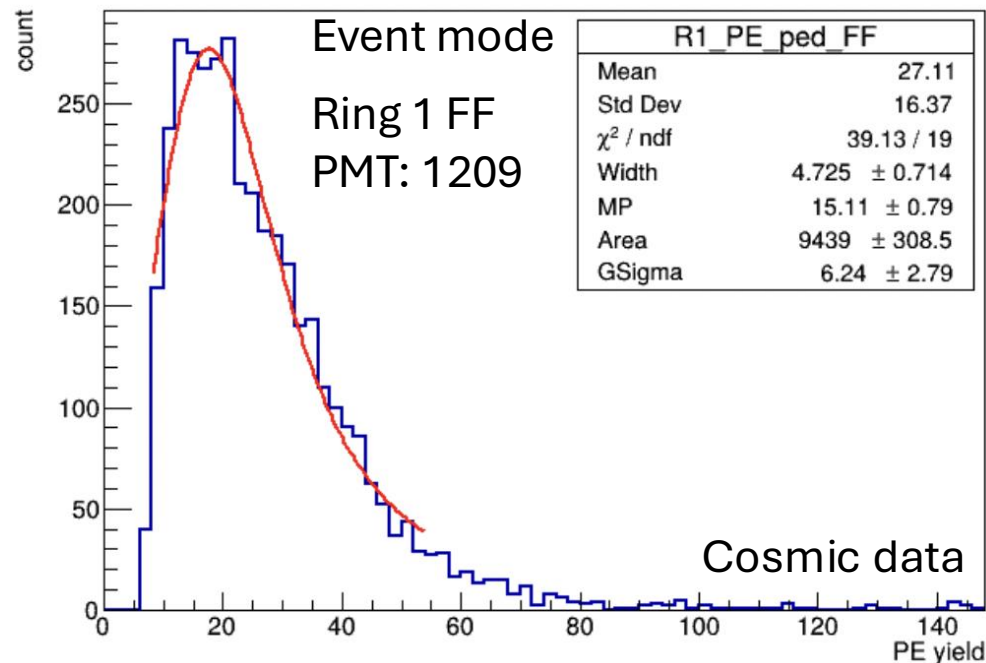
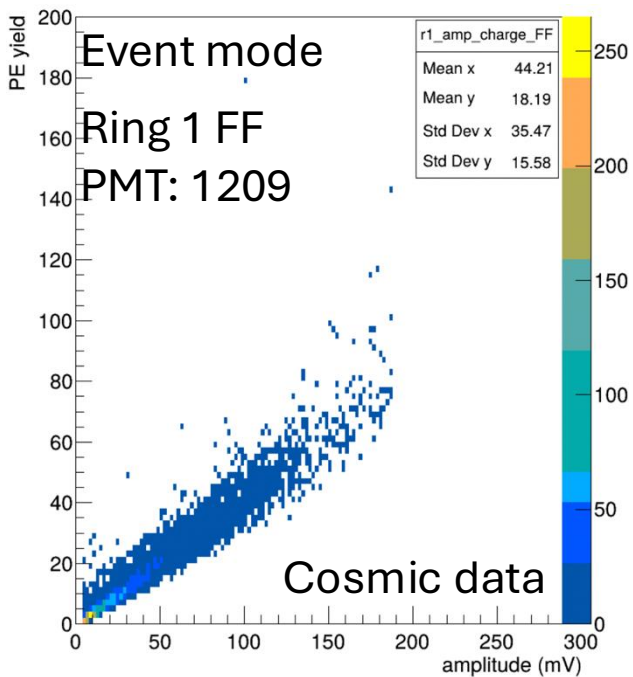
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Decided to swap the base and mark it if similar behavior is seen like CH1