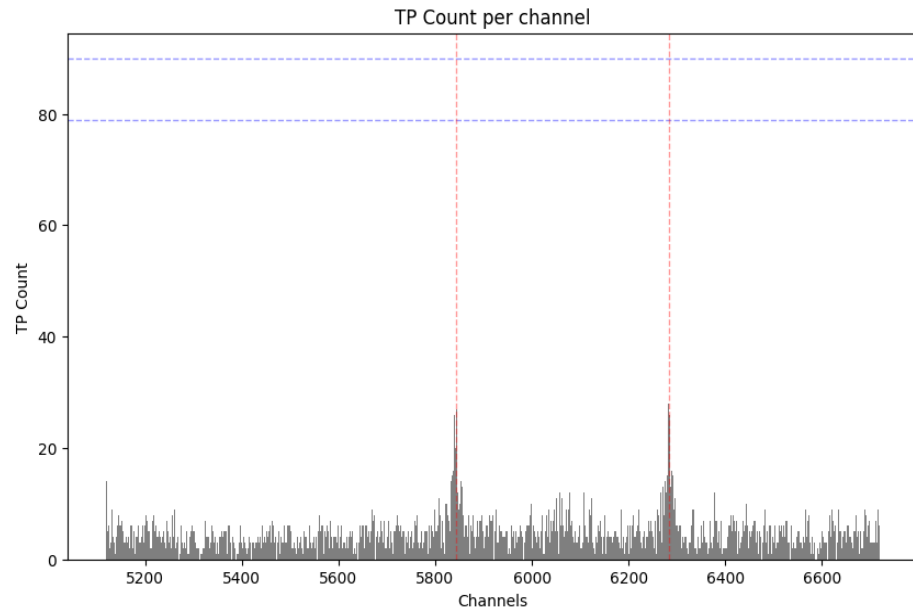# WEEKLY ANALYSIS UPDATE

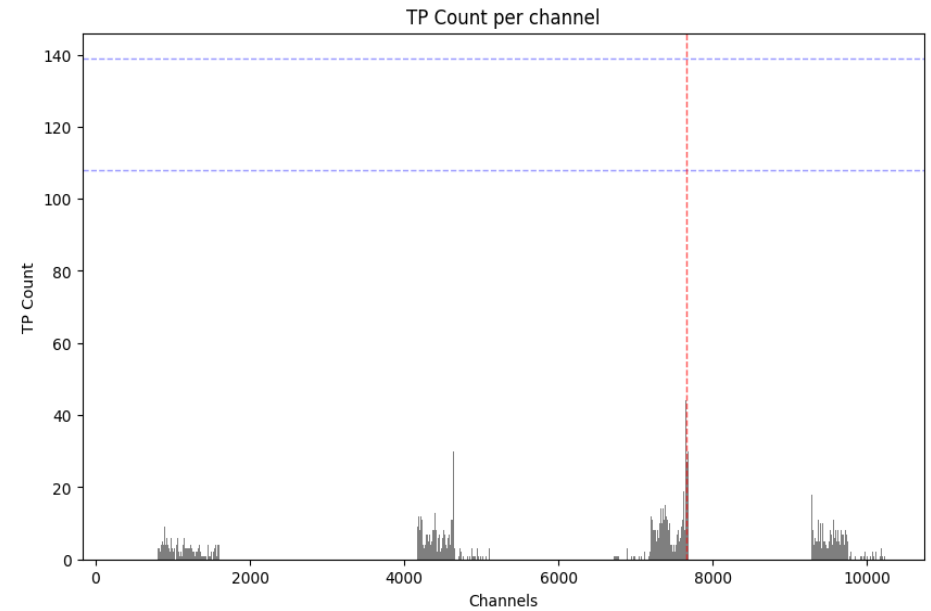19 July 2024

Samikshya Kar

Steps for Bismuth Physics

- Starting with raw data for APA 2 induction channels

- Why? Because:

    - For run **026482**:

        - APA 2, 3, 4: Induction planes: ST 5000, Collection plane: ST 250

        - APA 1: U plane and Collection plane: ST 5000, V plane: ST 300

- 1D Histogram of unclustered TP Counts per channel

    - For induction plane: emulated TPs with Std RS with R= 0.8 and hit finding threshold = 150

    - For collection plane: TPs from TR with simple threshold = 250

- ADC integral histogram of the TPs that are in the channel of increased activity

- Conversion of ADC integral to Energy and the 1D energy plot (needs further work)

- Matching the TPs from all 3 planes (done by Dennis)

- Histograms (charge and energy) from ADC integral between all 3 plane
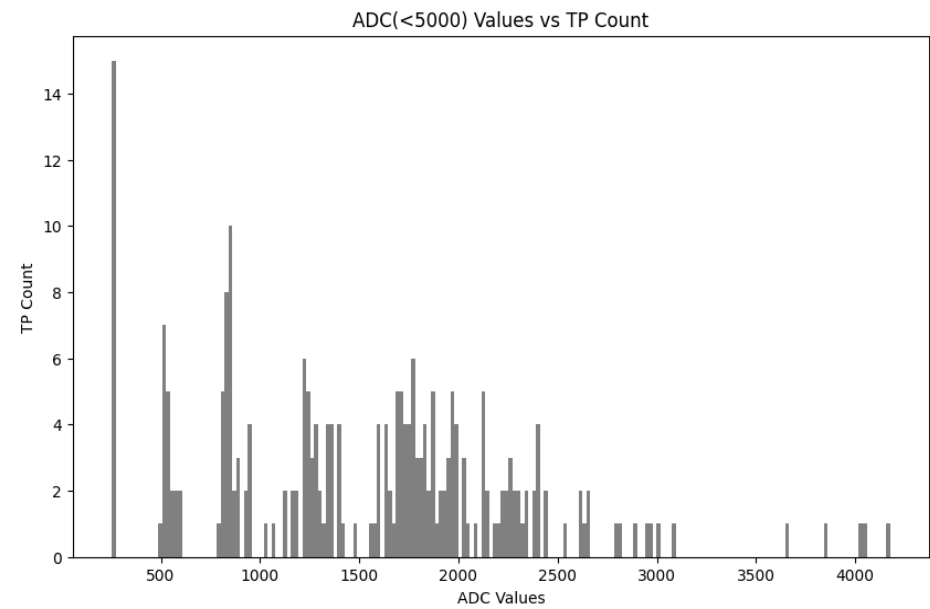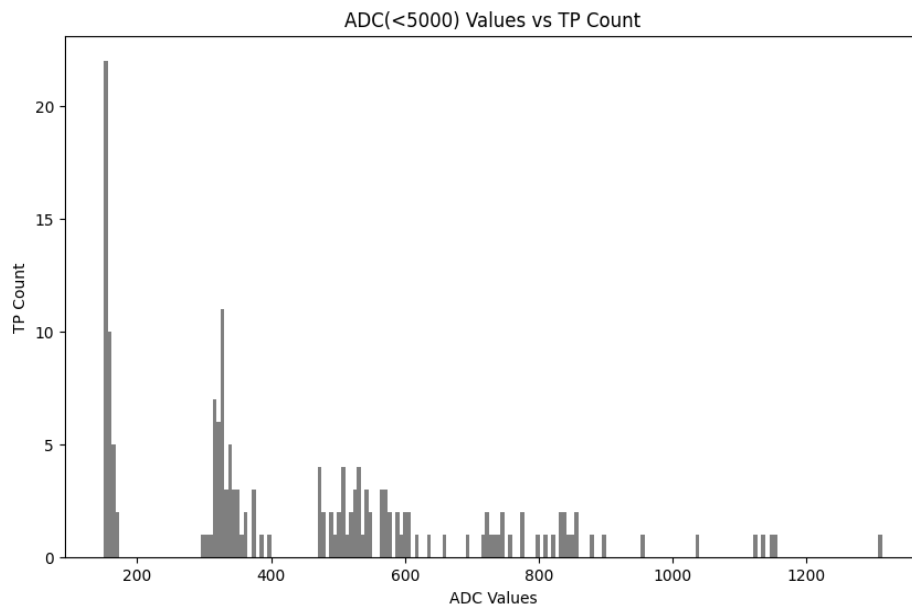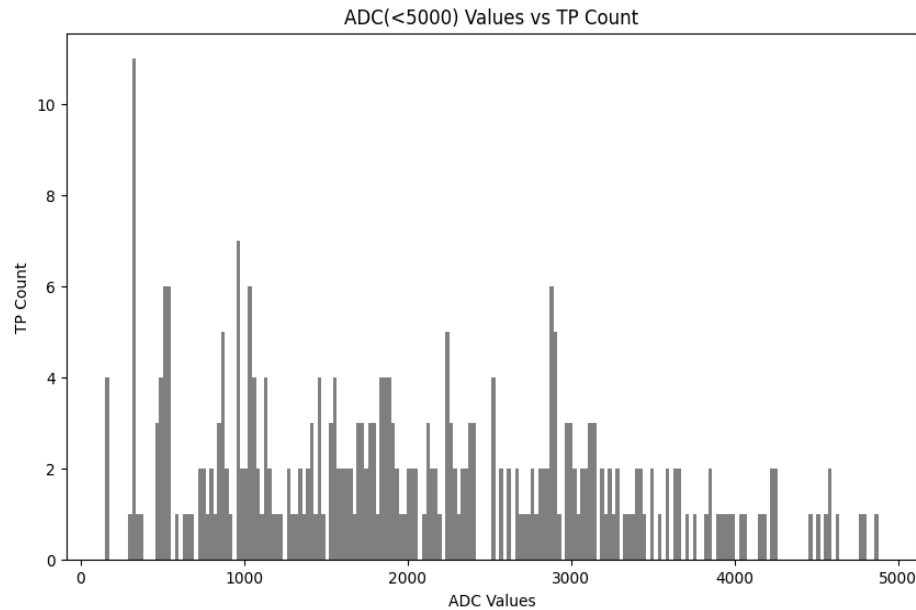
TP Count per channel

Induction plane

Collection plane

1D Histogram of ADC Integral values

ADC Integral for the matched TPs

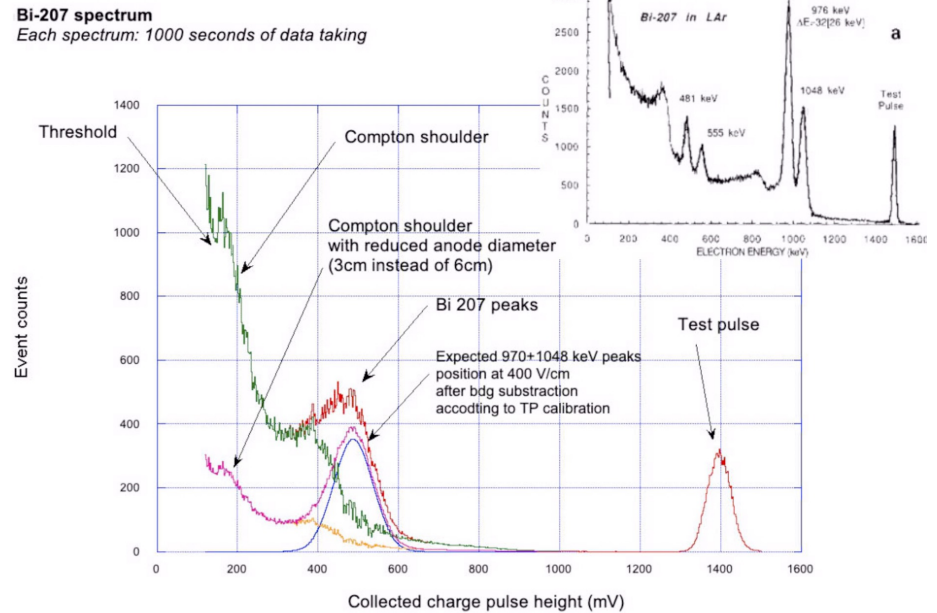Note: Unclustered TPs from the three planes are matched.

Image source:
Calibration study using Bi-207 presented by Alex Oranday

THANK YOU!

ADC Integral for the matched TPs

ADC Values vs TP Count