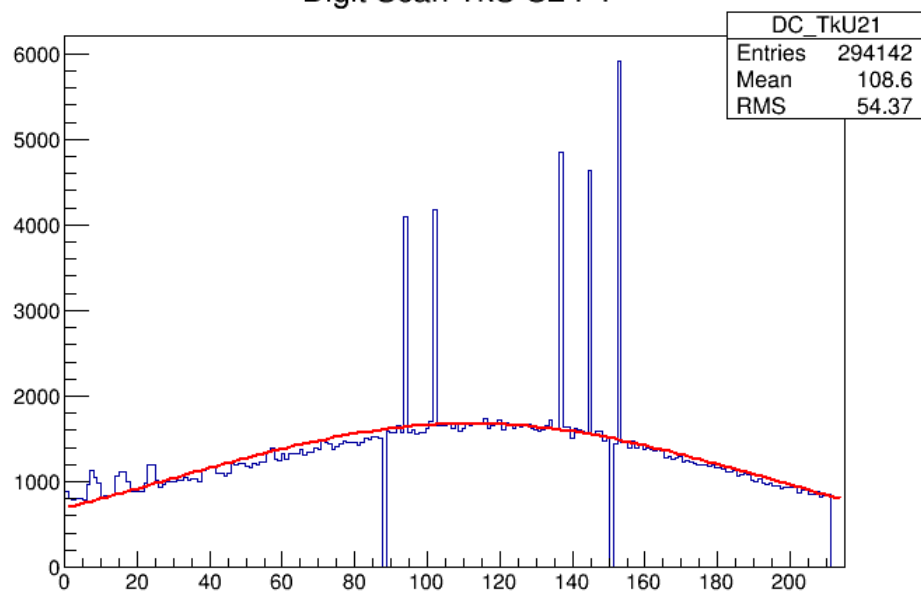


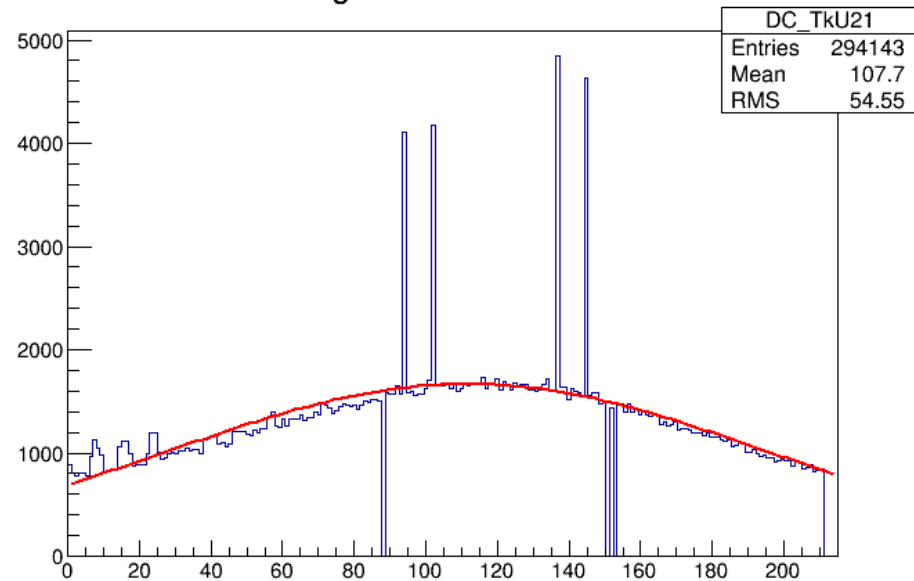
# Finding Bad Channels

- Examines digits in run
  - Histogram number of recorded digits per channel
- Fit to Gaussian or line
- Look at channel with largest number of hits
  - Compare to (relative) threshold value
  - If over add channel to list
  - Remove channel from histogram
- Run new fit and repeat

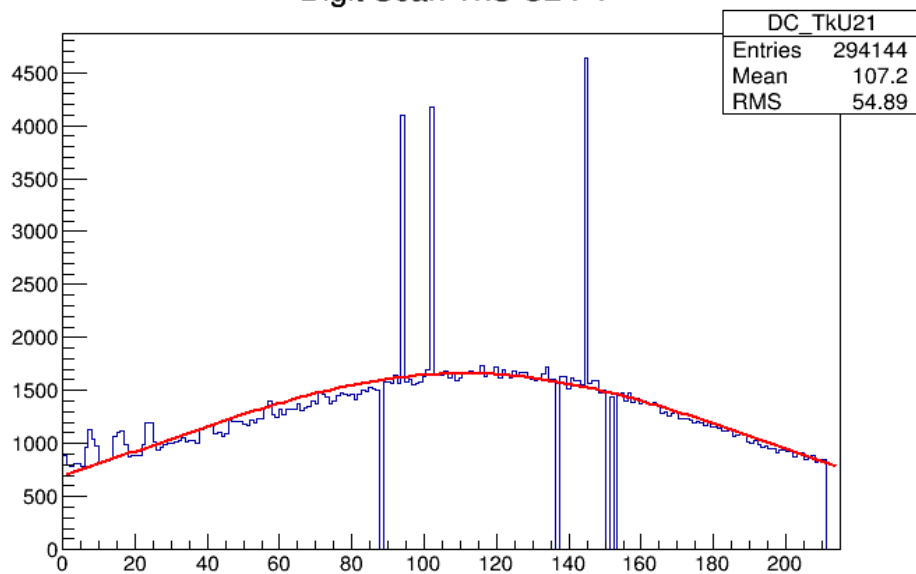
Digit Scan TkU S2 P1



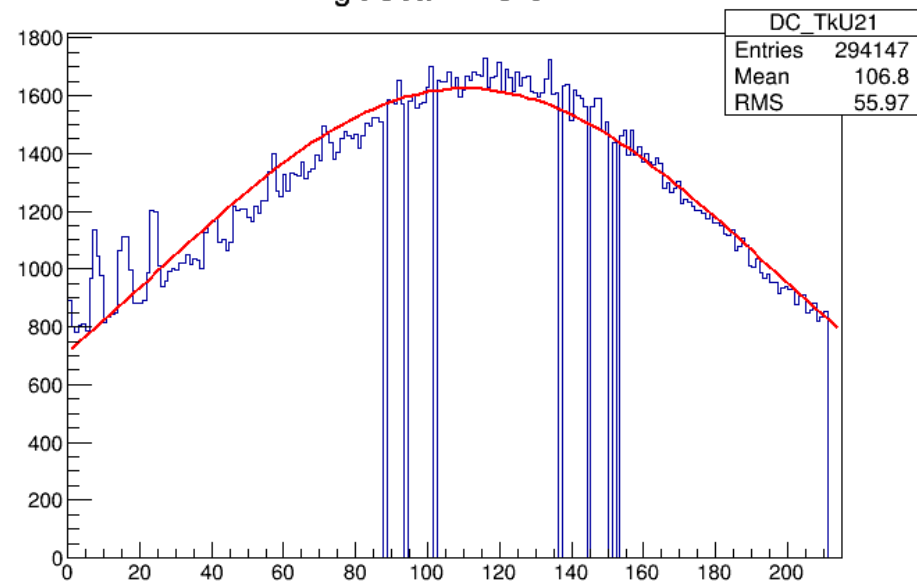
Digit Scan TkU S2 P1



Digit Scan TkU S2 P1



Digit Scan TkU S2 P1



# Problems, Solutions, and an Opportunity?

- Runs off MAUS processed data
  - Backwards, ideally you would like to know bad channels before running MAUS
  - Should be possible to bundle with LED calibration routine.
- Only hot and dead channels at this time
  - Ran into an infinite loop on quite channels
    - Solution may be in hand, just needs more time.
- May be possible to export curve fit and bad channel list to Online for data quality check
  - Will not take into account a displaced beam center