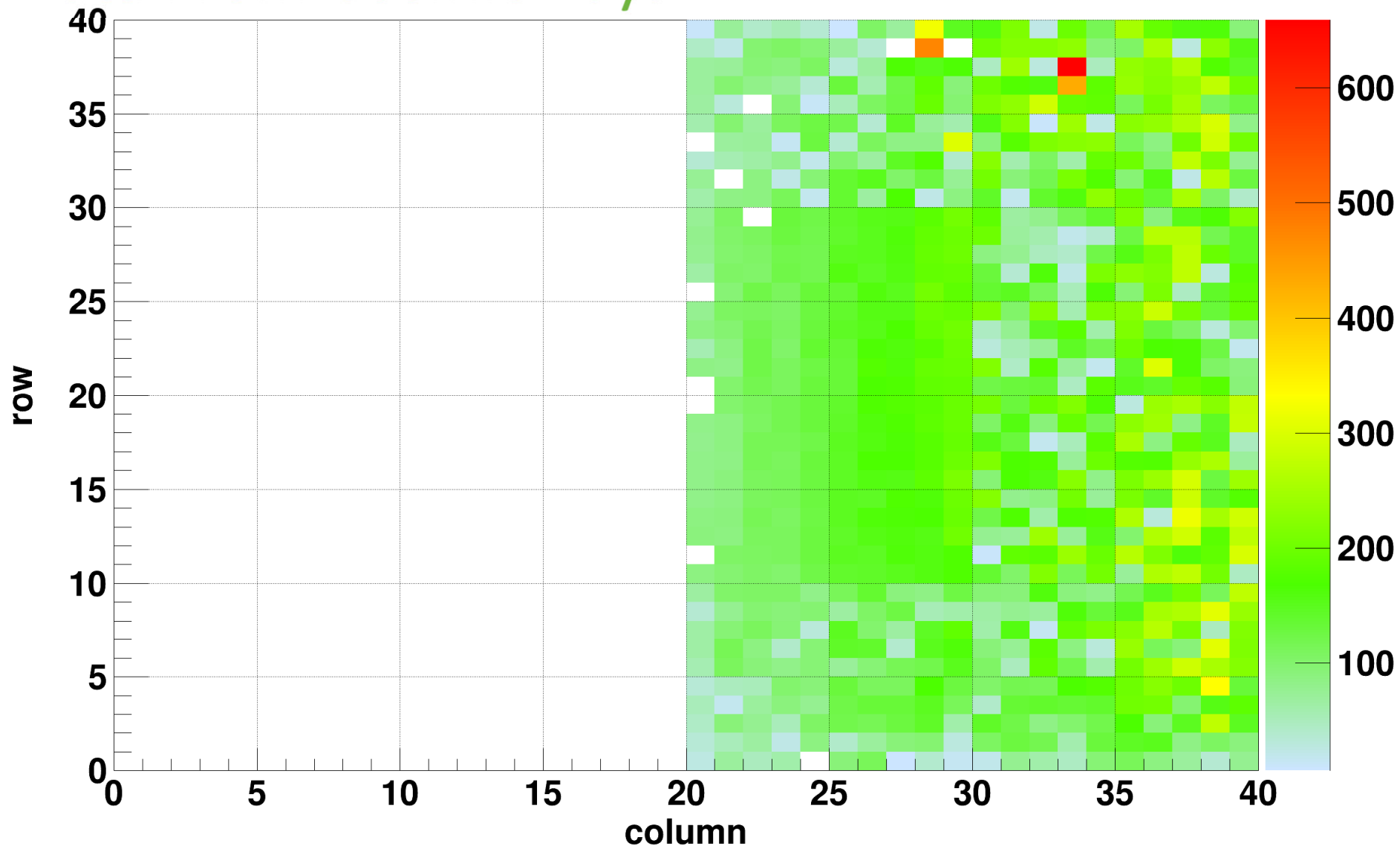
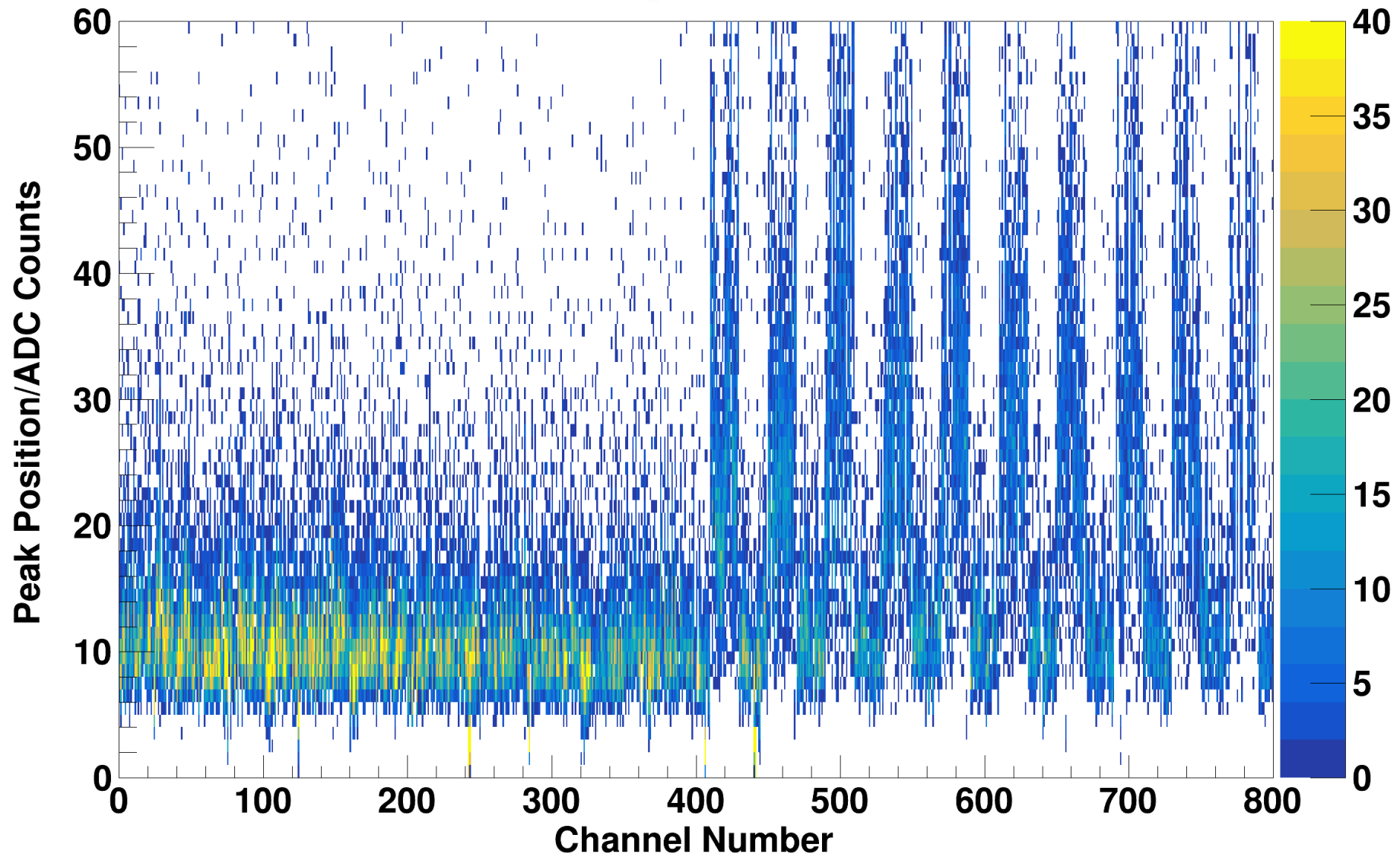


# Real Data From Cosmic Rays



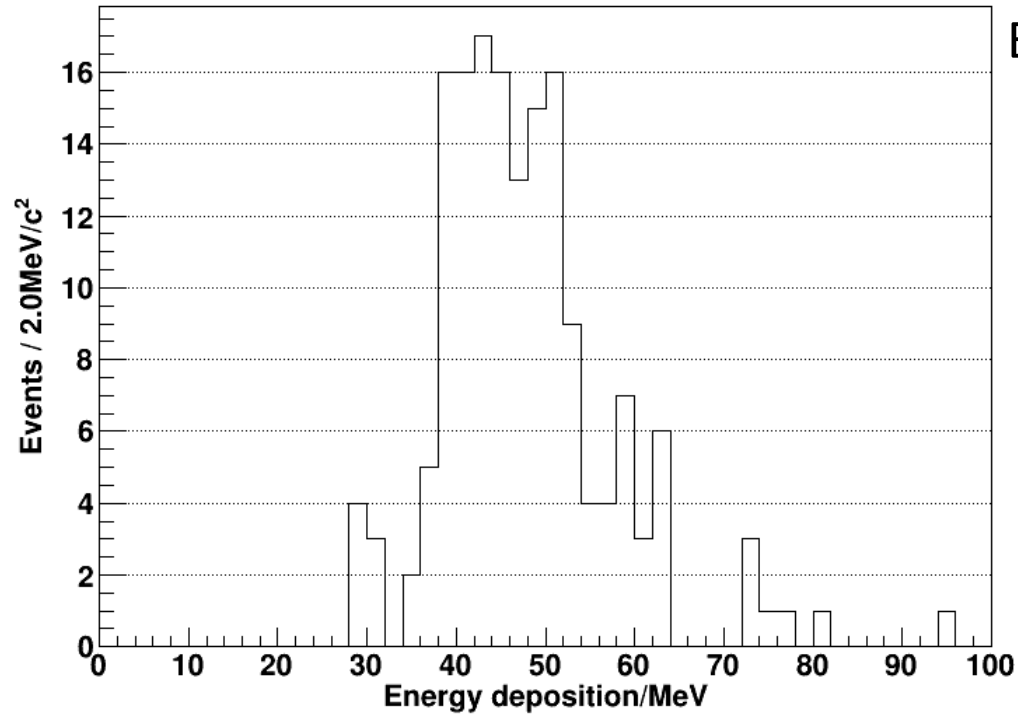
# Real Data From Cosmic Rays



# Real Data From Cosmic Rays

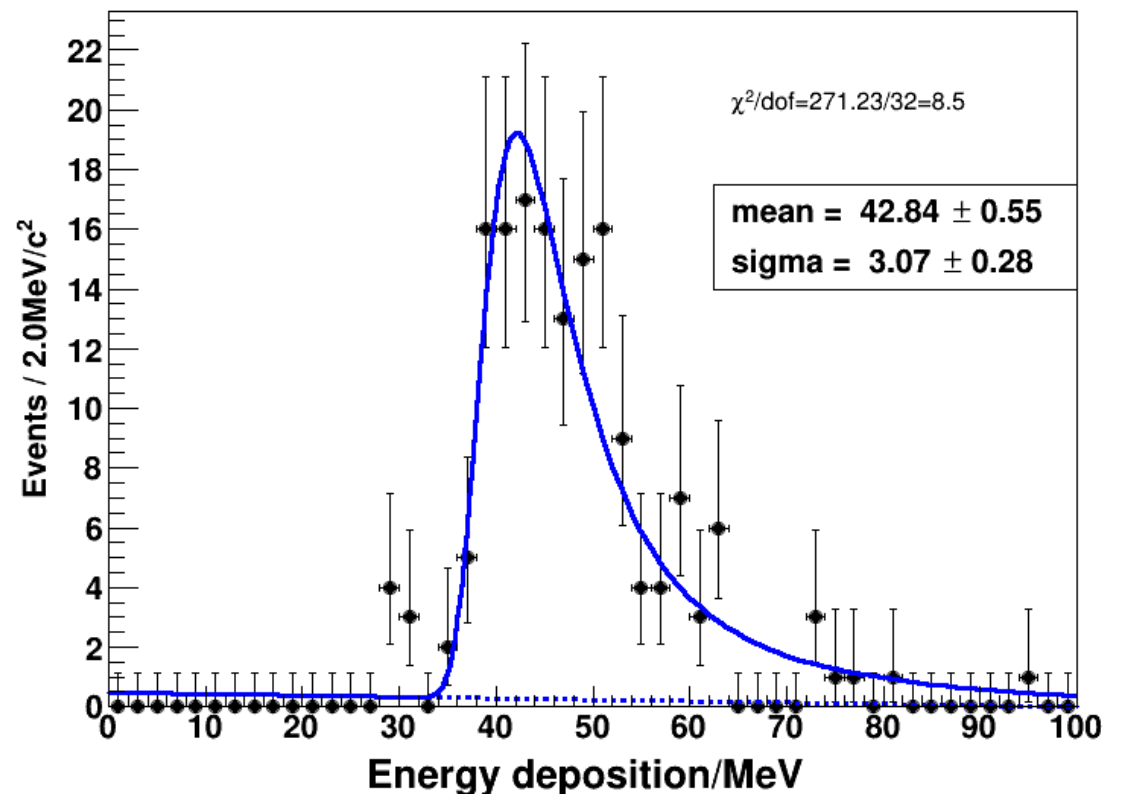
Channel 165 (col, row) = (35, 34)

Entries 164



Energy Deposition From Directly Reconstructed

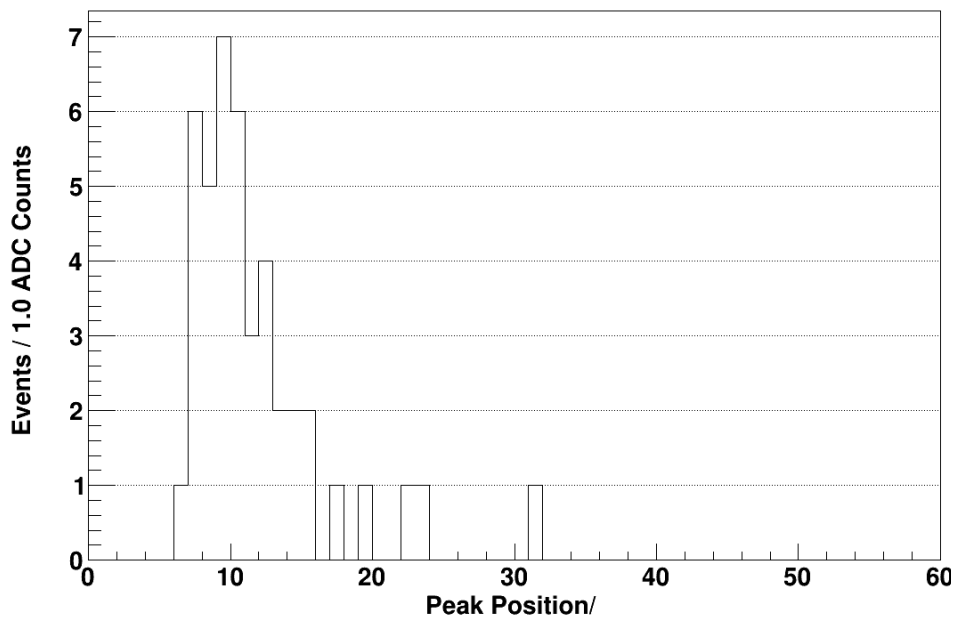
Channel 165 (col, row) = (35, 34)



# Real Data From Cosmic Rays

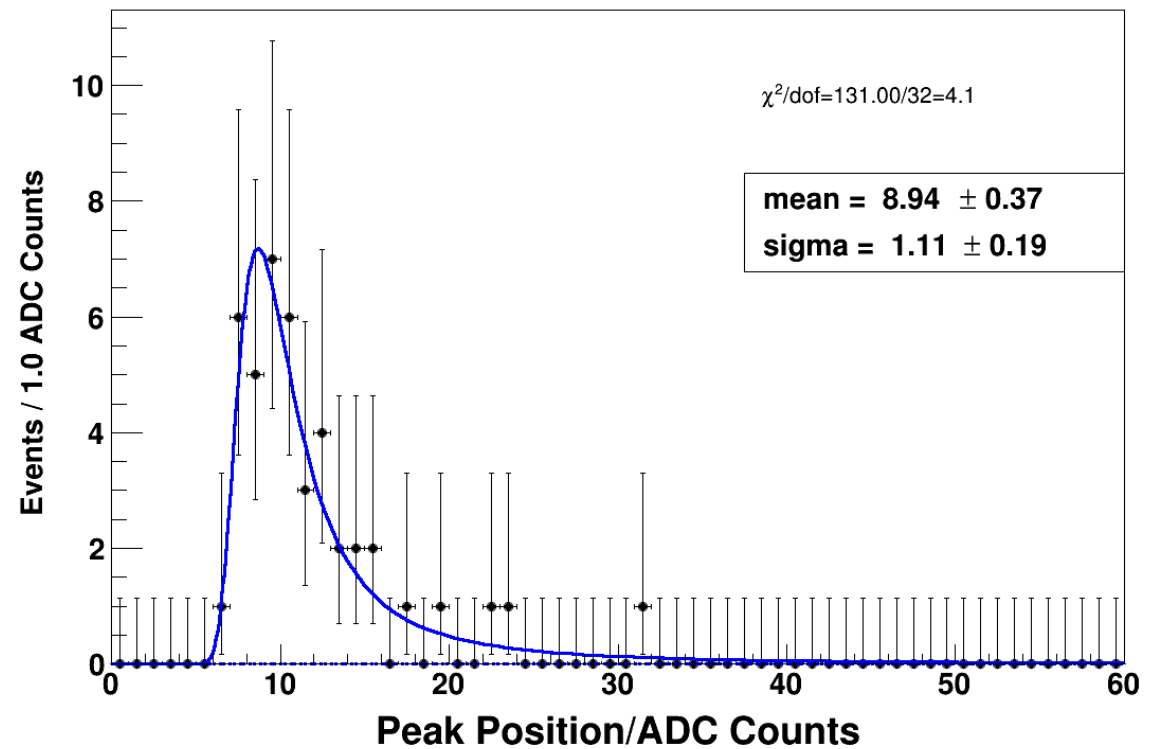
Channel 797 (col, row) = (20, 2)

Entries 43



## Flash ADC Digital Counts

Channel 797 (col, row) = (20, 2)

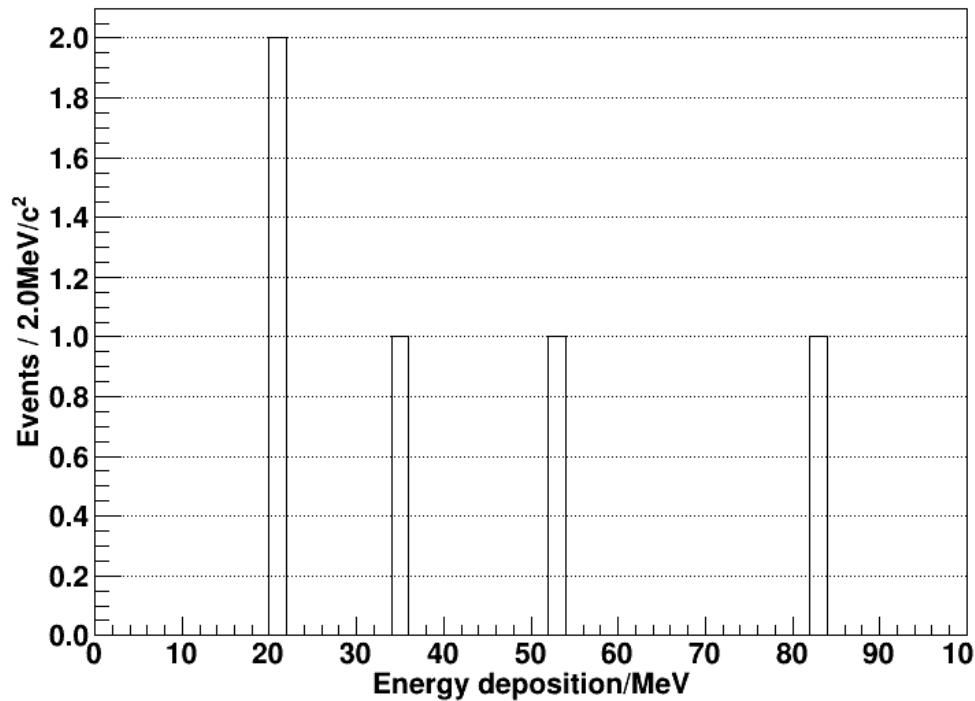


# Real Data From Cosmic Rays

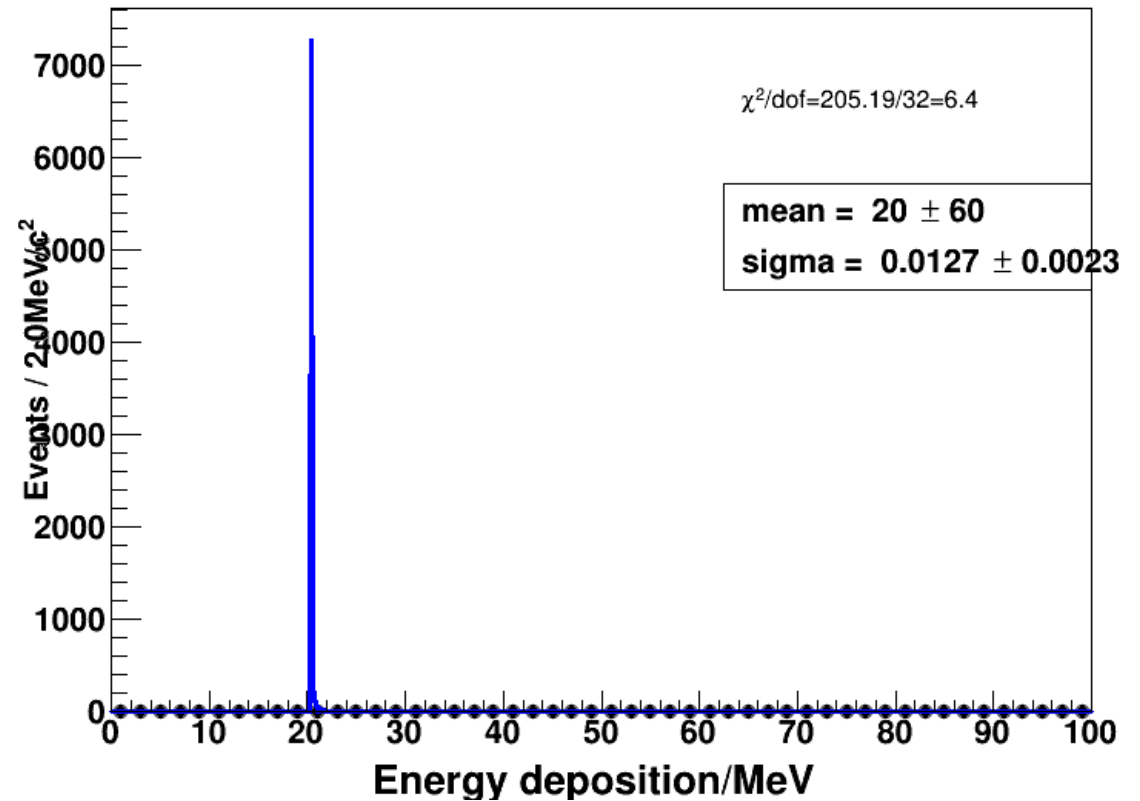
## Potential Bad Channels

Channel 766 (col, row) = (20, 33)

Entries 5

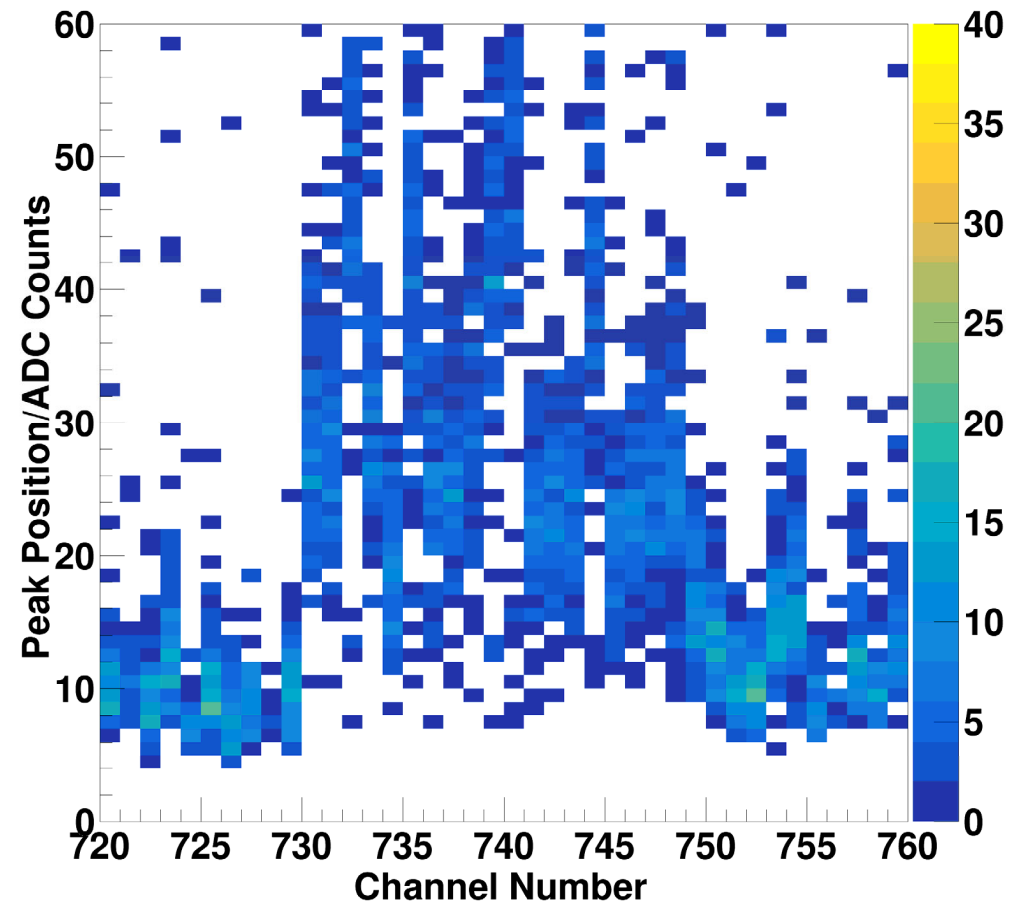


Channel 766 (col, row) = (20, 33)

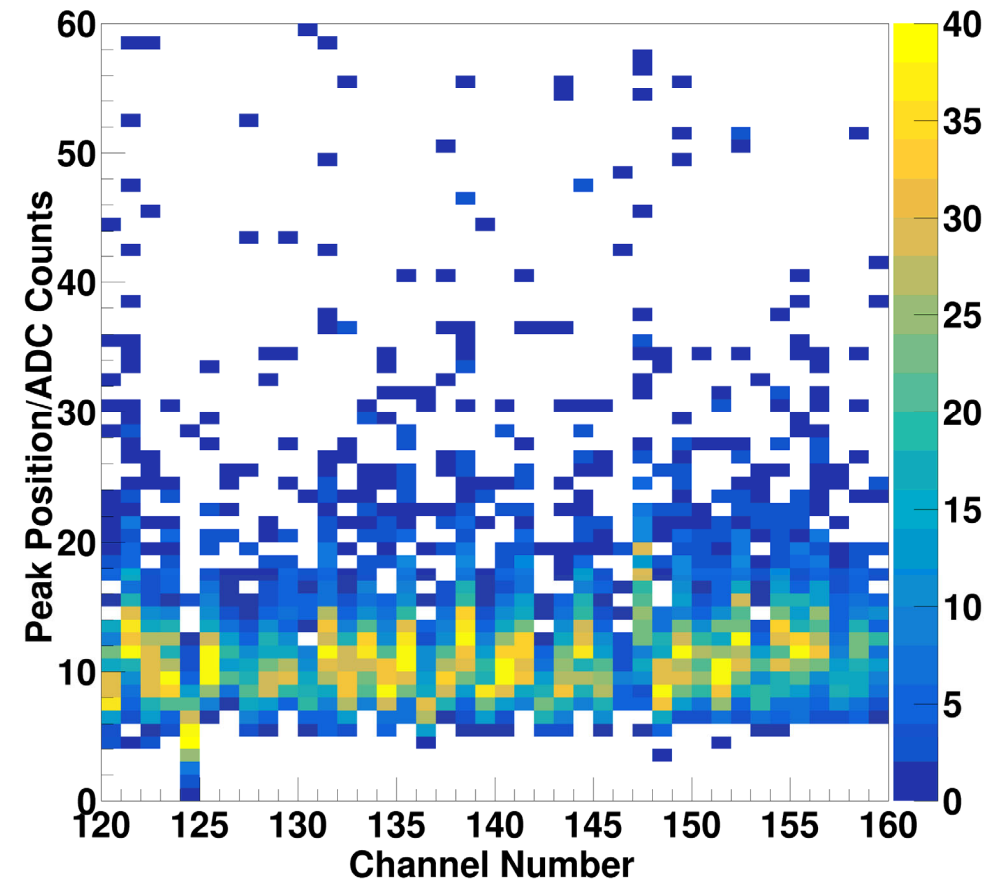


# Real Data From Cosmic Rays

column 21

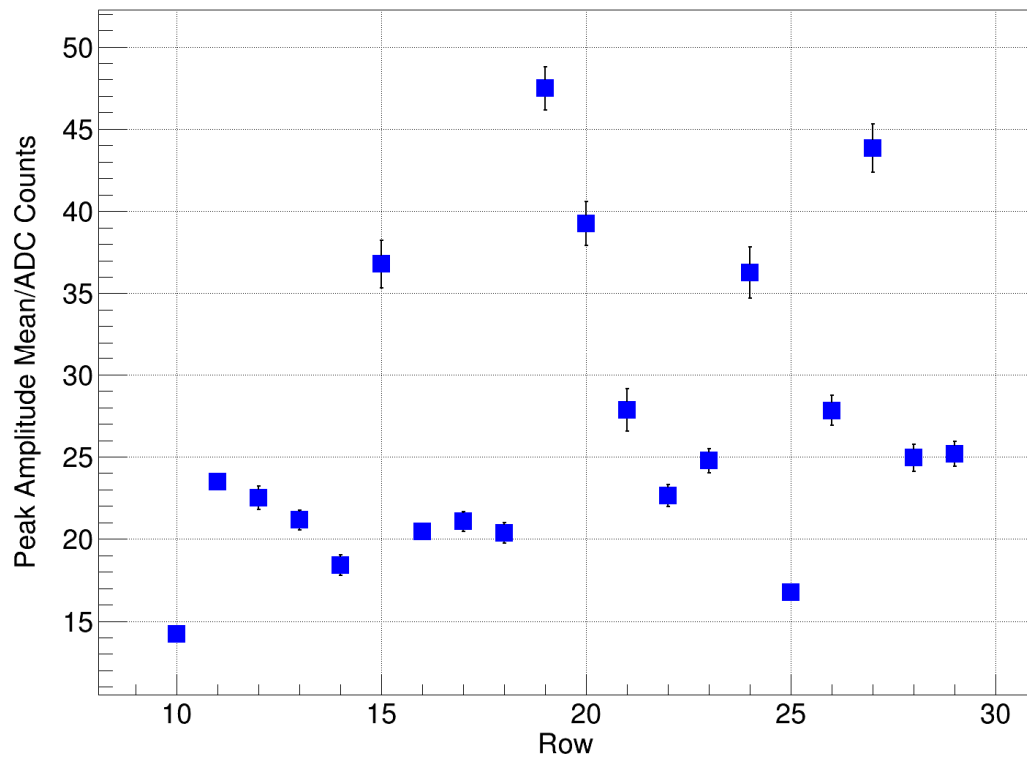


column 36

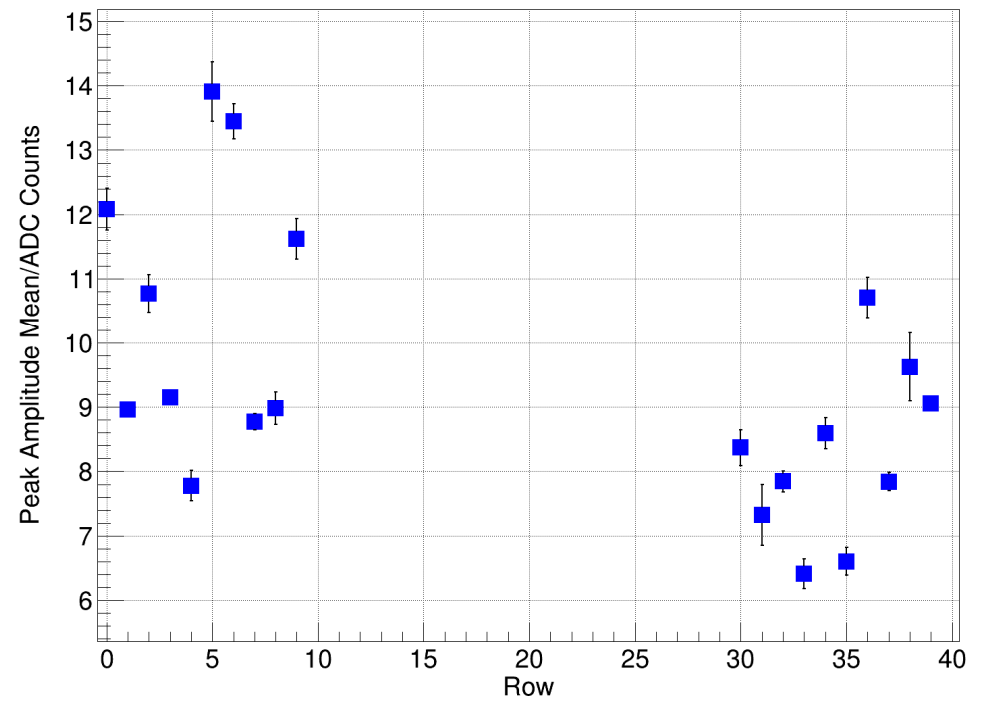


# Real Data From Cosmic Rays

Column 21



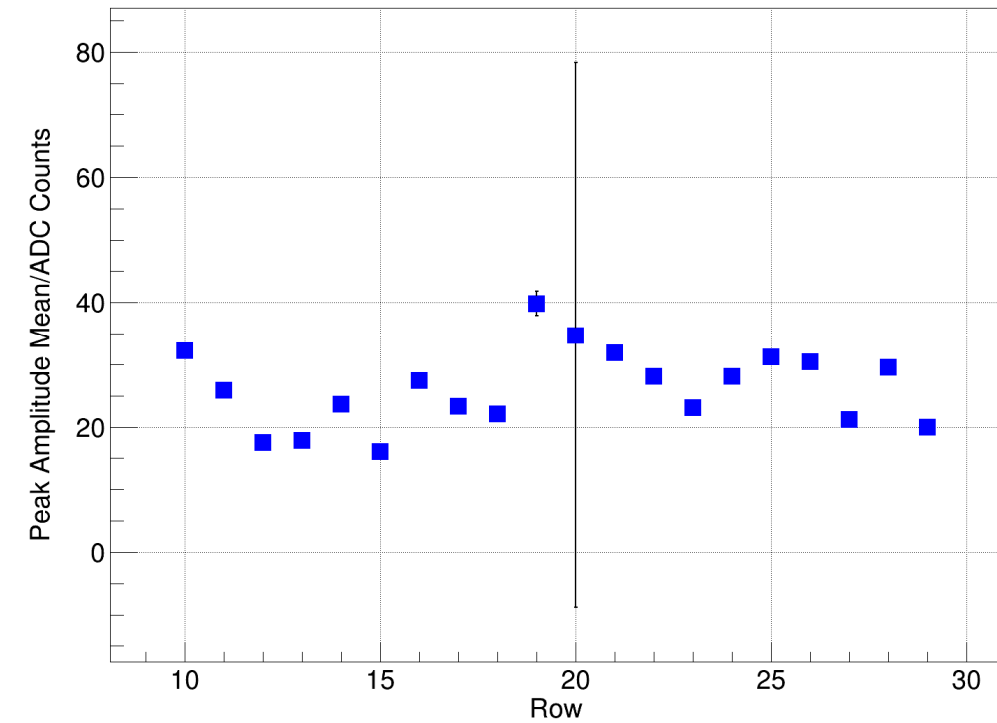
Column 21



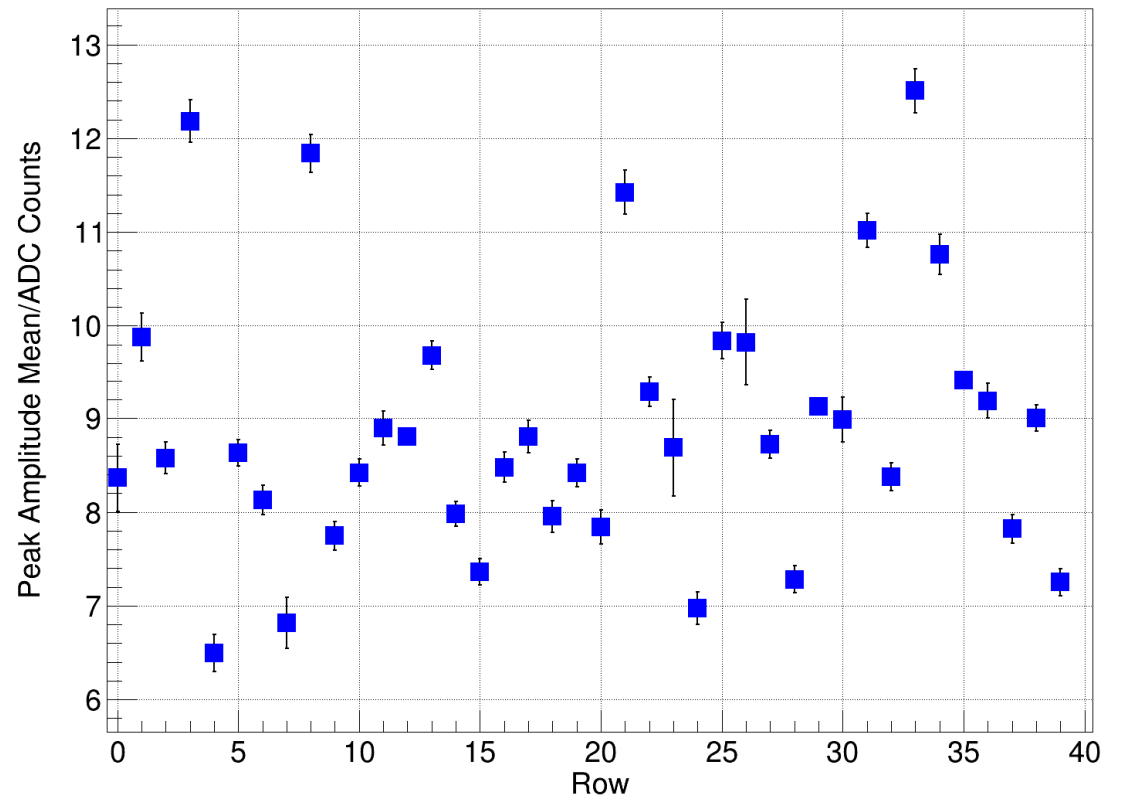
# Real Data From Cosmic Rays

Amplifier Issue: Need to reduce voltage

Column 23



Column 38





# A python3 script

```
(dp1) [zhikun@ifarm2401 temp2]$ runEvio -init
/w/halld-scsshelf2101/home/zhikun/codeRelease/runEvio

Hello, welcome to use this scrip. This is a script developed by Zhikun Xi, an undergraduate from Wuhan University, at the end of 2024. This is a python3 based scripts. It is to
run all the ".evio" (or whatever kinds, just modify the parameters in parameters.py)file with certain plugins and save the root file to a certain folder. And you can then use
"hadd allRuns.root *root" to combine all the files for further analysis.

Suggesstions: You should make a new folder and run this command again in order to keep you woking space clean and managable. If you insist not creating a new folder, please bac
kup all the data before getting started.

To run the script, you should install `colorama` first(pip install colorama). Then, go to an empty folder, and type
/w/halld-scsshelf2101/home/zhikun/codeRelease/runEvio/main.py -init
Then check the file parameter.py, put all the files that you want to run in the inputDir, then run. After that you will see the root file in outputDir

Initialization start
Current folder has following items:
[]

Empty folder, initialzing!
parameters.py successfully created
./evioFiles/ successfully created
./outputRootFiles/ successfully created
```