

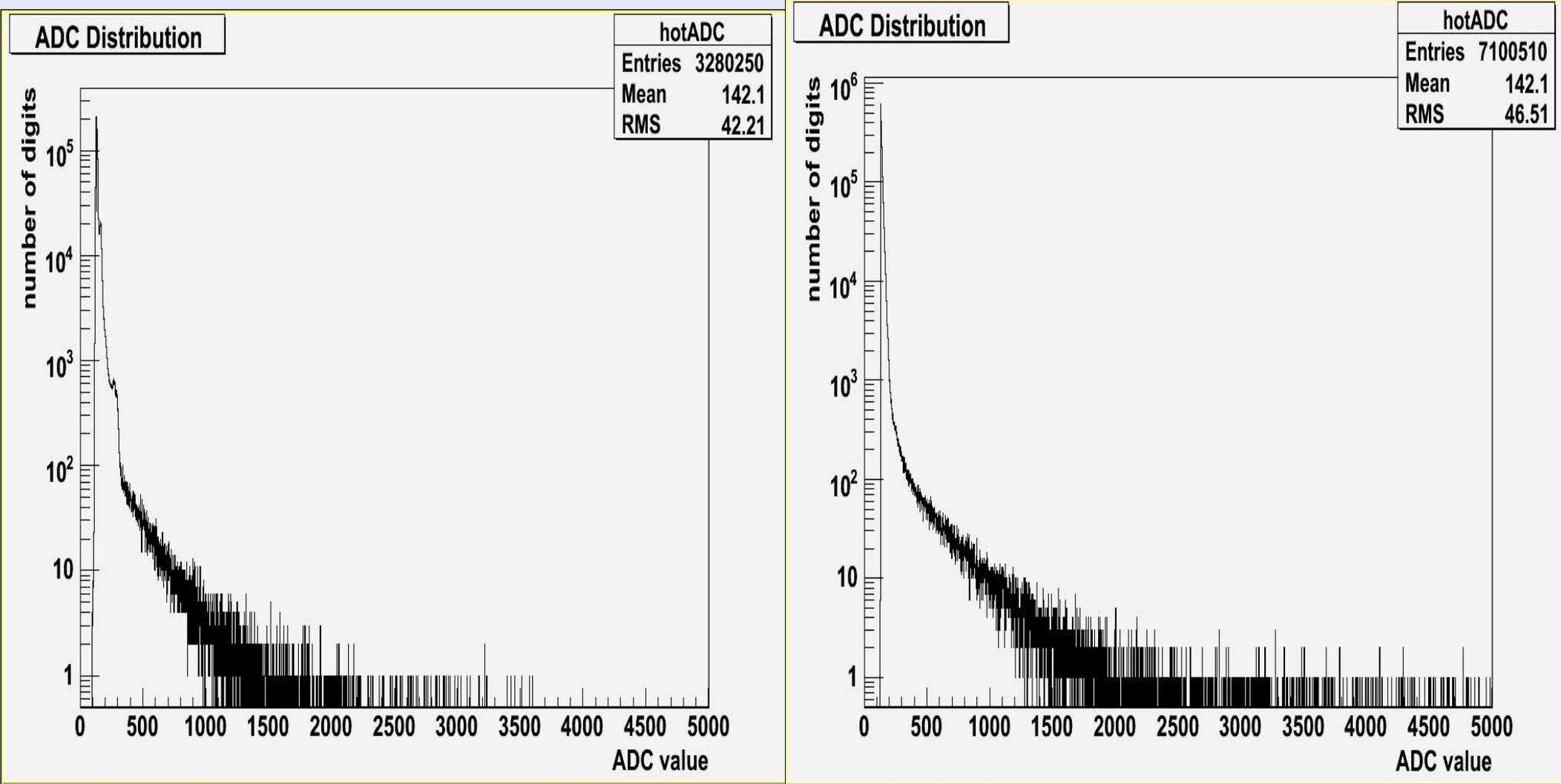
# **TPC Bad Channel Table and TPC Digitizer Module**

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- I plot ADC distribution of the TPC digits in the hot pads written to the database for real and Monte Carlo data.
- There is no cut on ADC value, plots show all ADC values.

# ADC Distributions of the TPC Digits in the Hot Pads for MC and Real Data run = 15860 (proton on Carbon target)



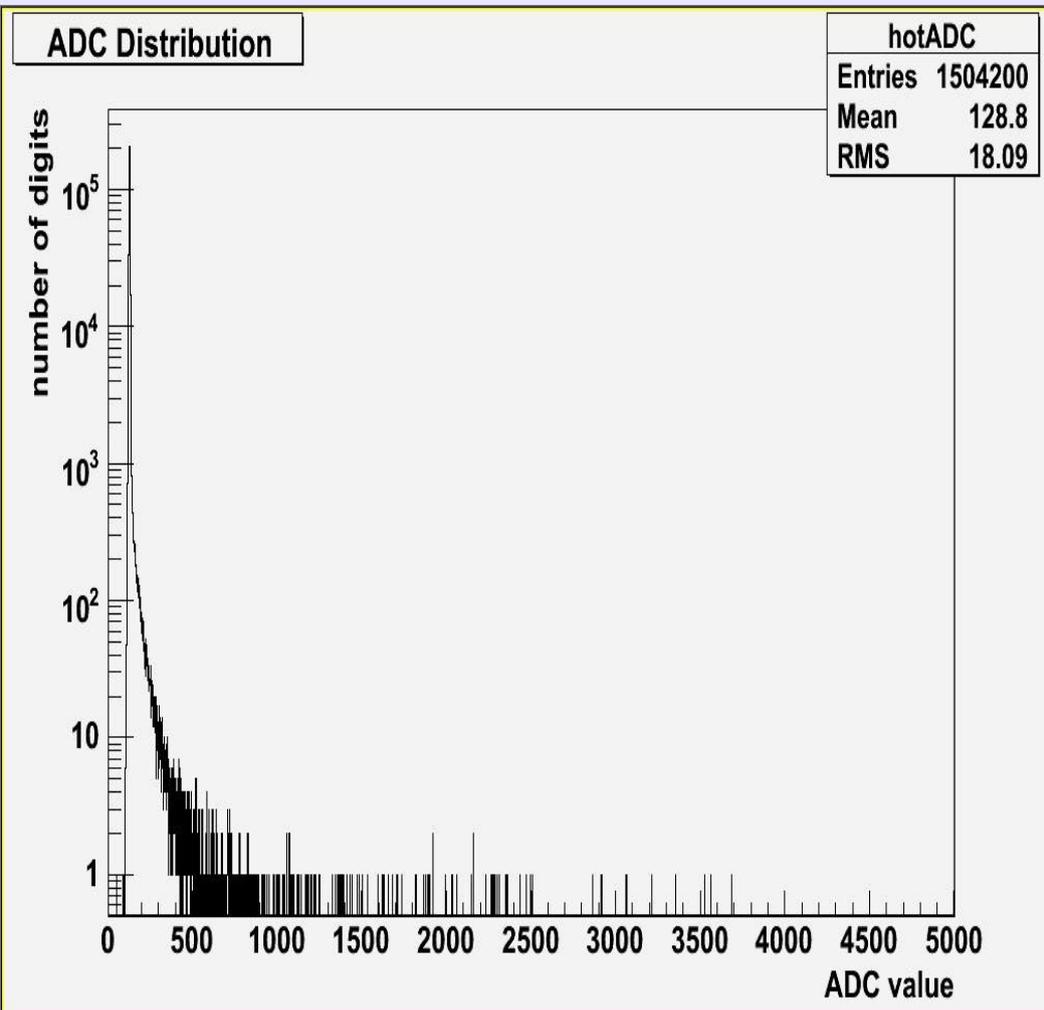
ADC distributions of the raw TPC digits in the hot pads for real data

ADC distributions of the MC digits in the hot pads

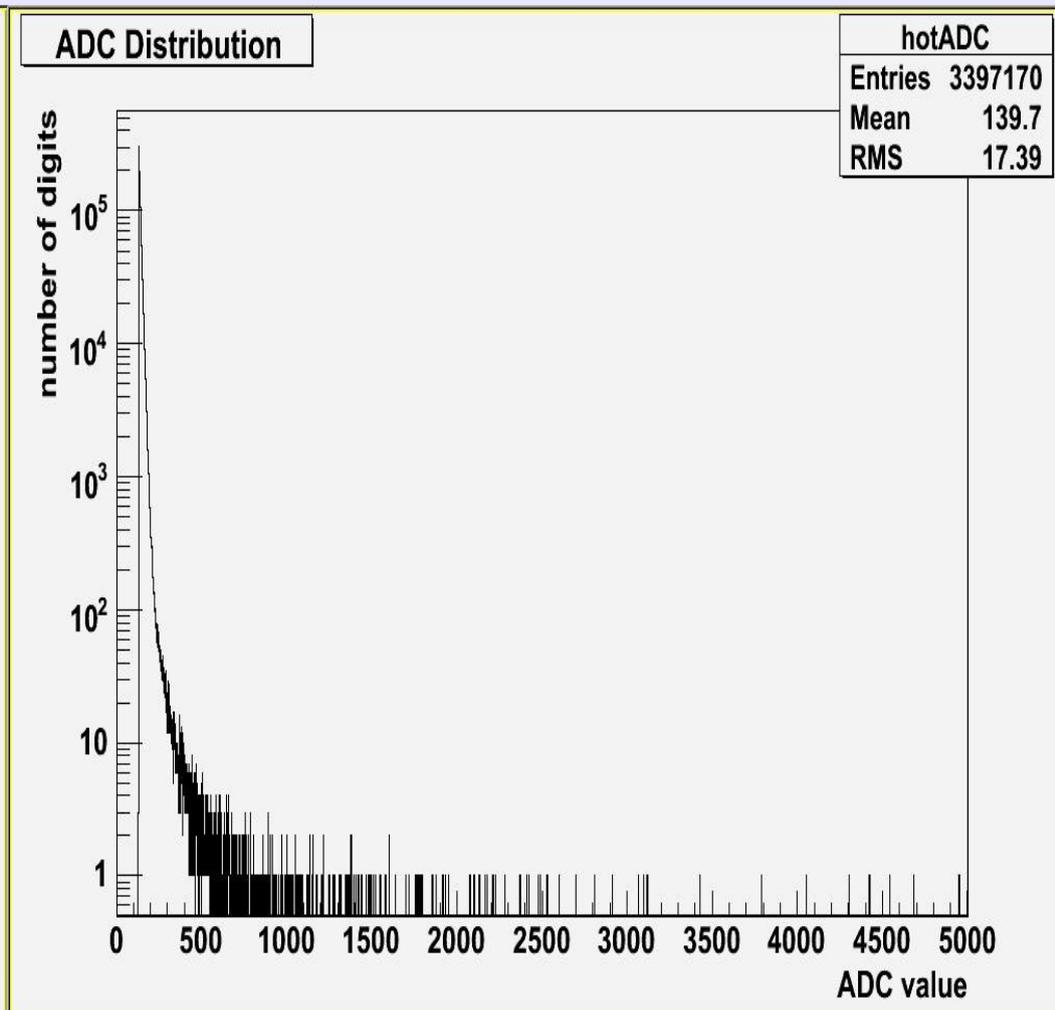
- There are 7 hot pads written to database for this run.

# TPC Digit ADC Distribution run =13526 84 GeV/c beam on LH2 target

## Real Data



## MC Data

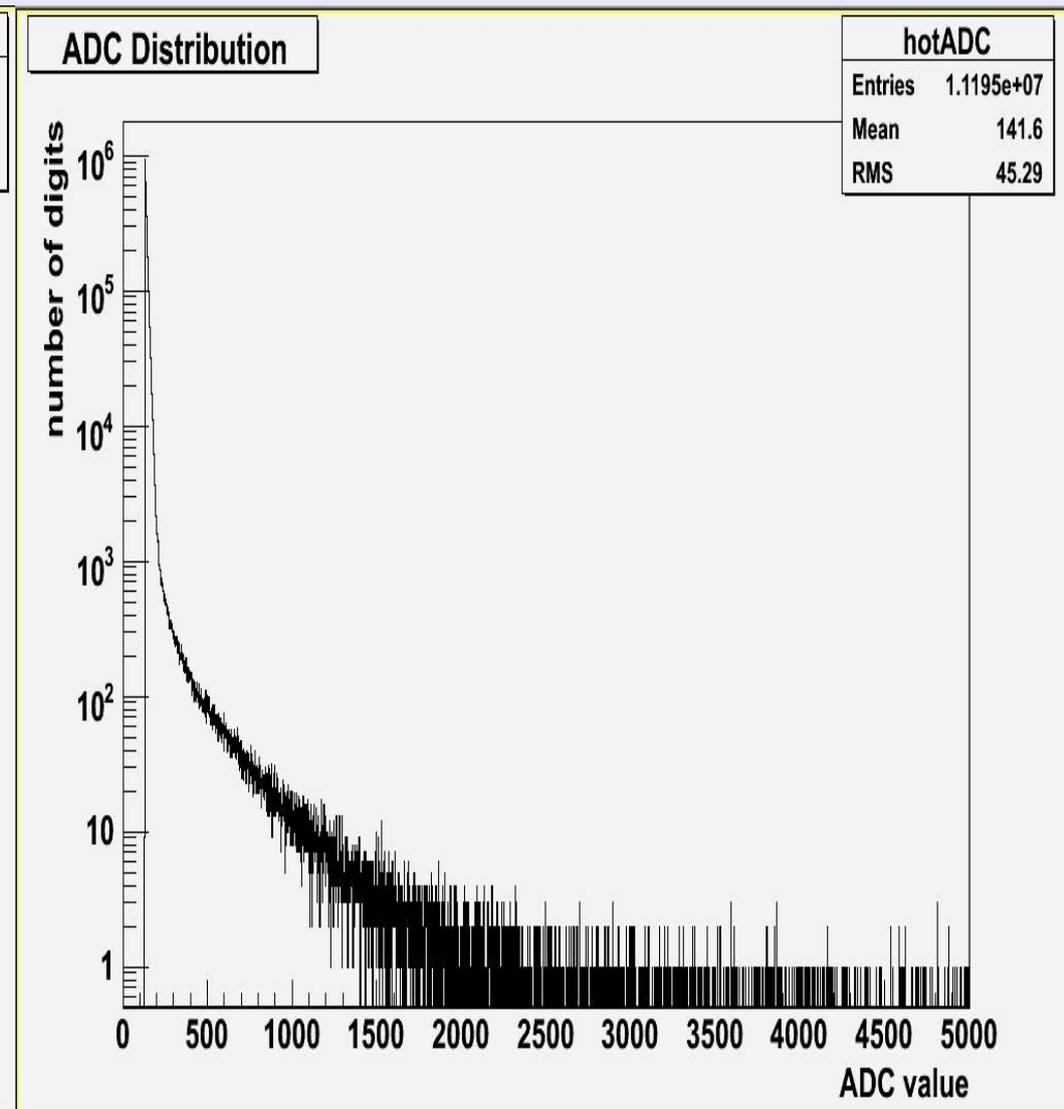
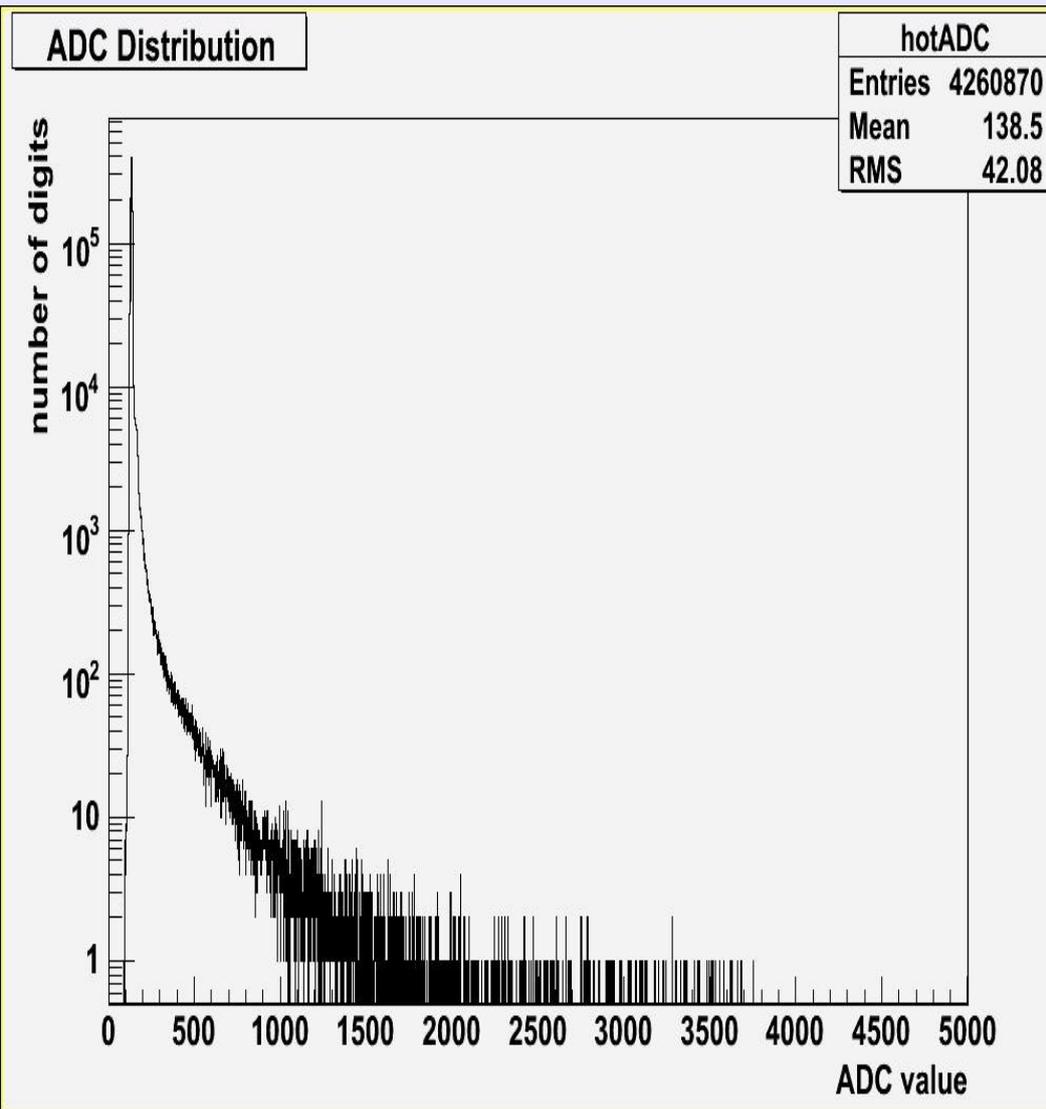


- There two hot pads written to database for this run
- TPCDigitizer cuts ADC value at 4096. If an ADC value is bigger than 4096, then it is set to 4096.

# Run = 15721 proton on carbon target

## Real Data

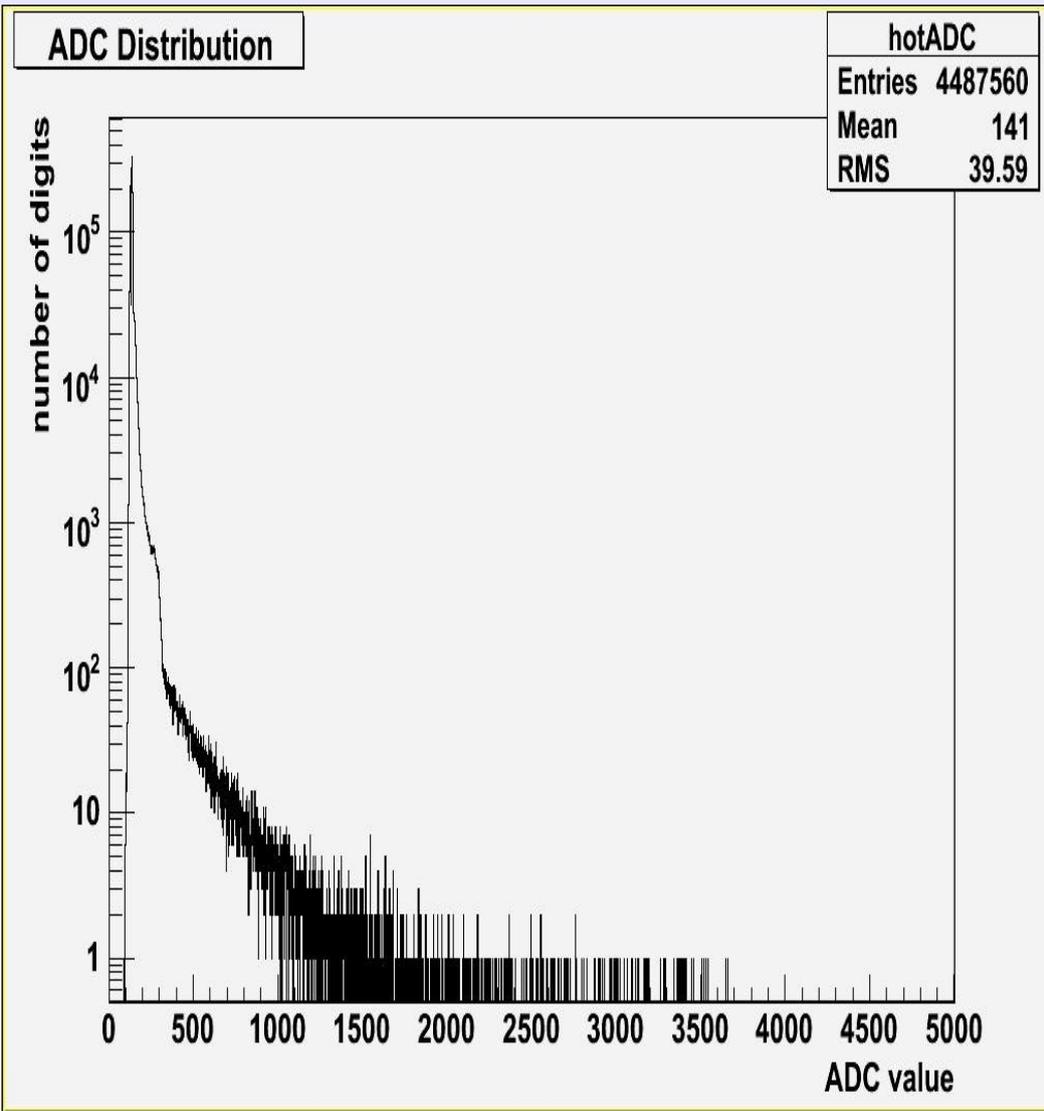
## Monte Carlo Data



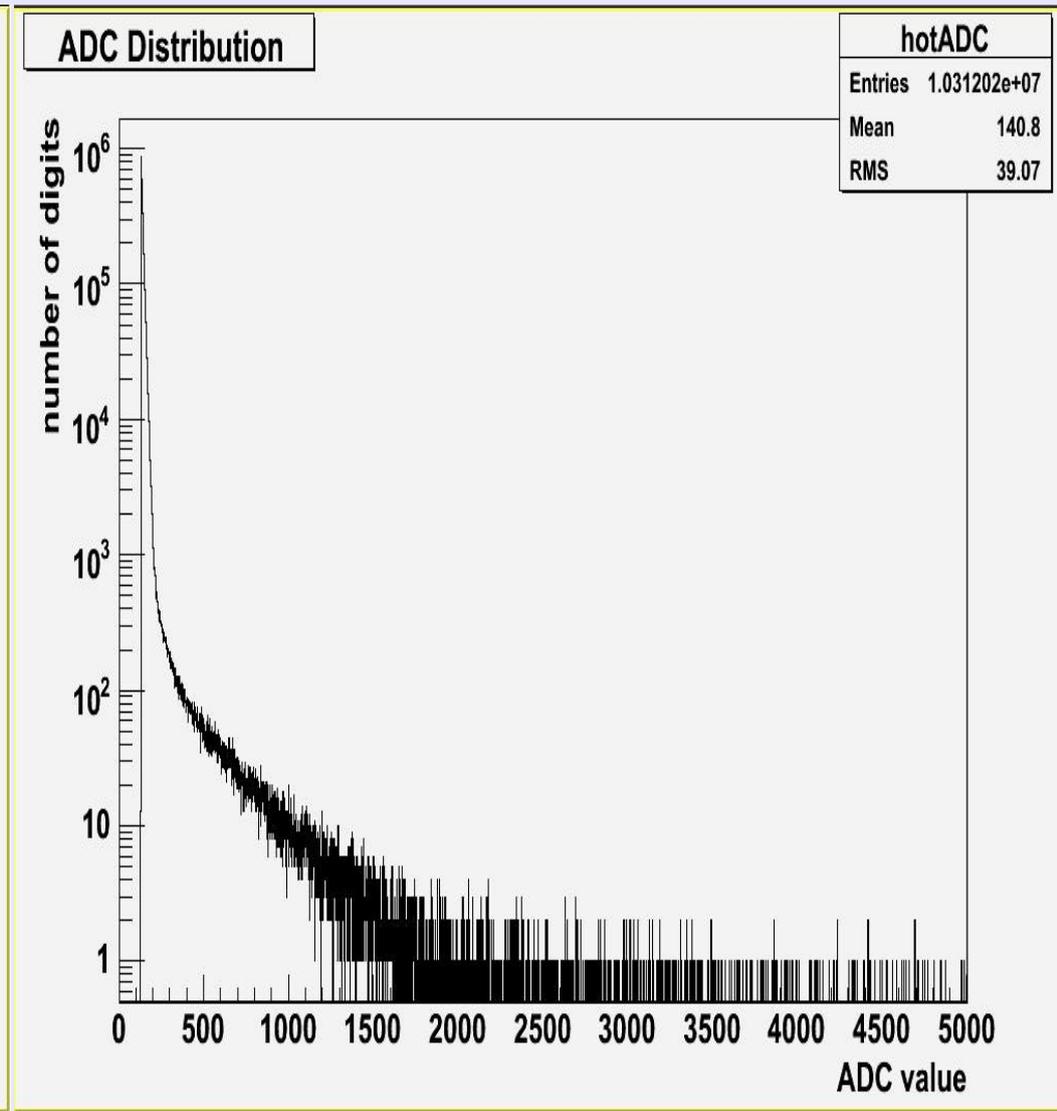
- There are 12 hot pads written to database for this run

# Run 15927 proton on Carbon target

## Real Data



## Monte Carlo Data



- There are 11 hot pads written to the database for this run

# SUMMARY

- It seems to me that the ADC distributions of the TPC digits in the hot pads for real and MC data look like similar

-However, in some runs there is a small peak between 200 and 300 ADC value, which we do not see in MC data.

If we can ignore this peak in some runs, we can say ADC distribution is modeled correctly for the digits in the hot pads.