

# Cross-talk

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# Overview

- ◆ Cross-talk using Test-pulse data
  - ◆ by strip
  - ◆ by channel
- ◆ Cross-talk using beam data
- ◆ Conclusions
- ◆ Further Work

# Method of Analysis

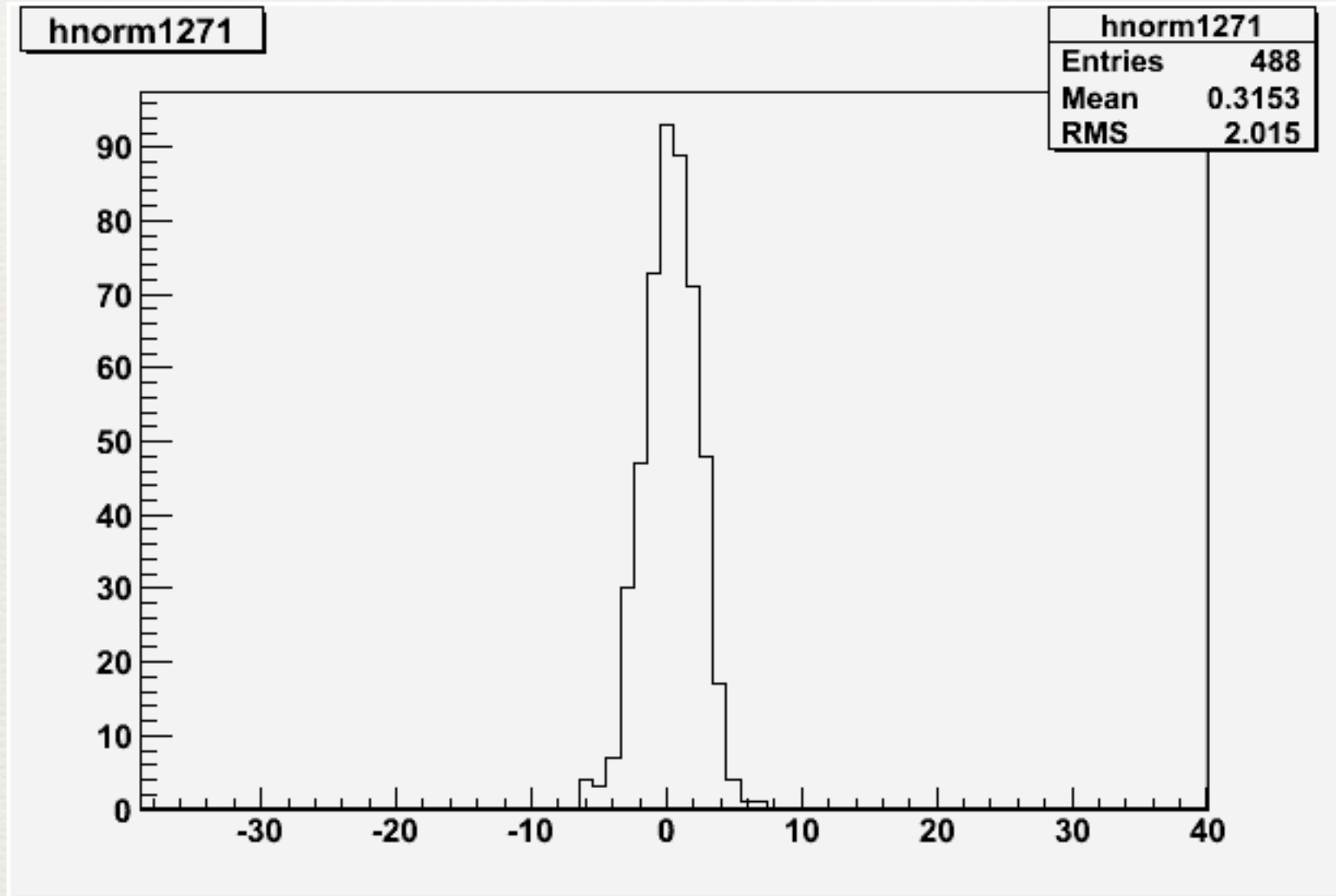
- ♦ Looking just at Phi sensors
- ♦ For a given test-pulse channel, we have four types of discriminator:
- ♦ Adjacent channel NOT adjacent strip
- ♦ Adjacent strip NOT adjacent channel
- ♦ Adjacent strip AND adjacent channel
- ♦ “Normal” i.e., NOT adjacent channel NOT adjacent strip

# Info

- ♦ ACDC3 - Cable Config 2.
- ♦ Taking TELL1 23 or M37 Phi as example

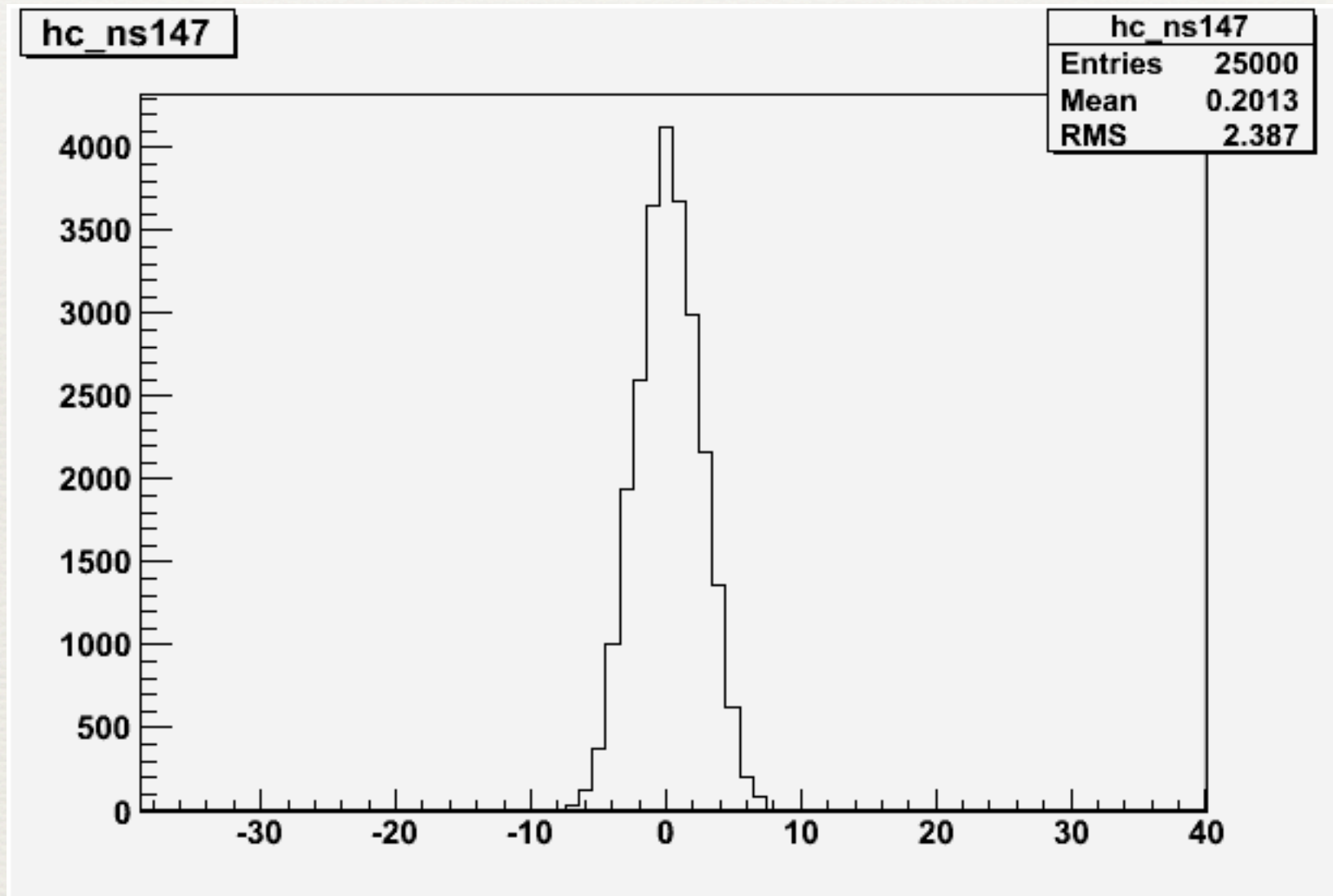
# Test Pulse Data

# “Normal”



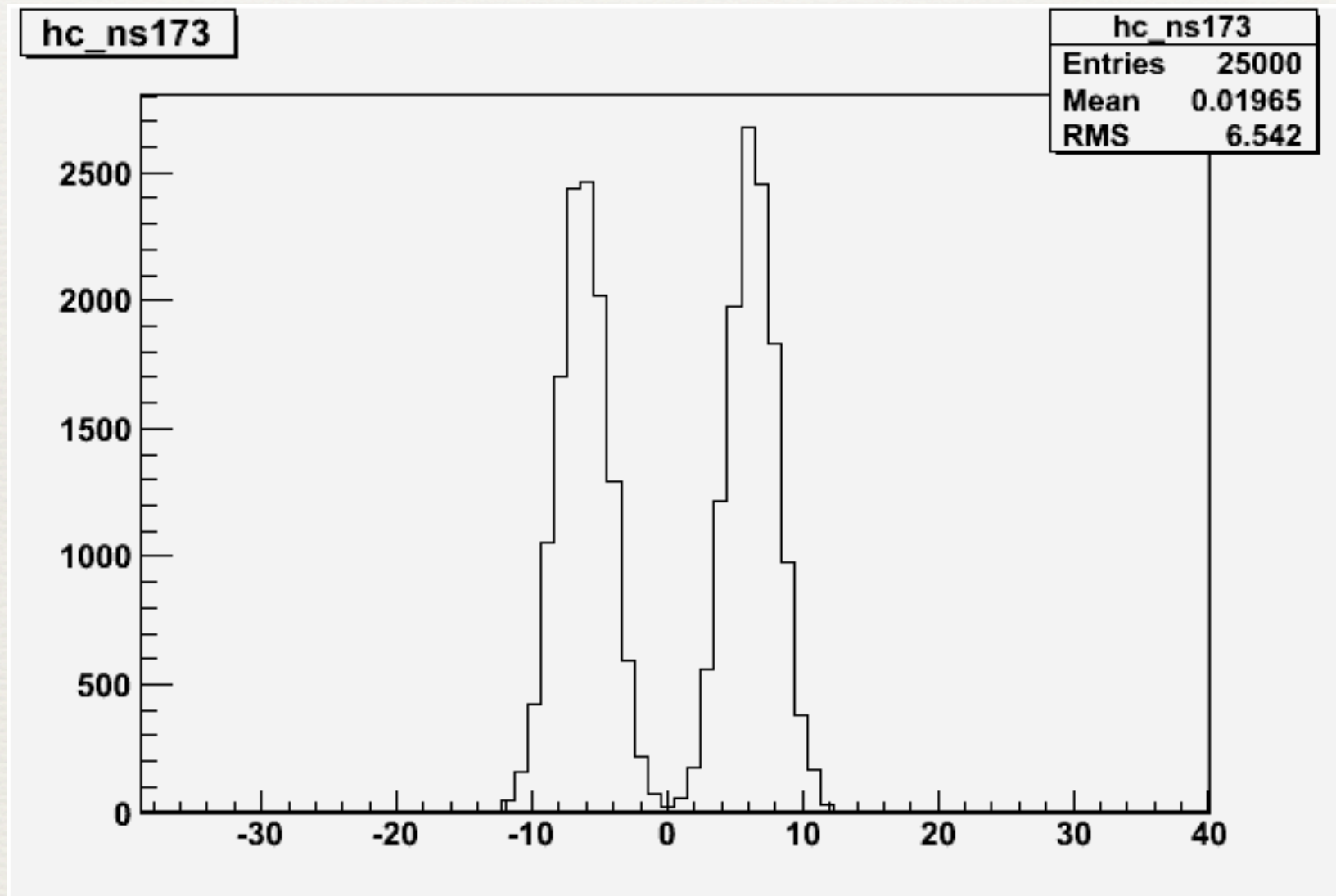
# Channel Cross-talk

(Adj. Channel NOT Strip)

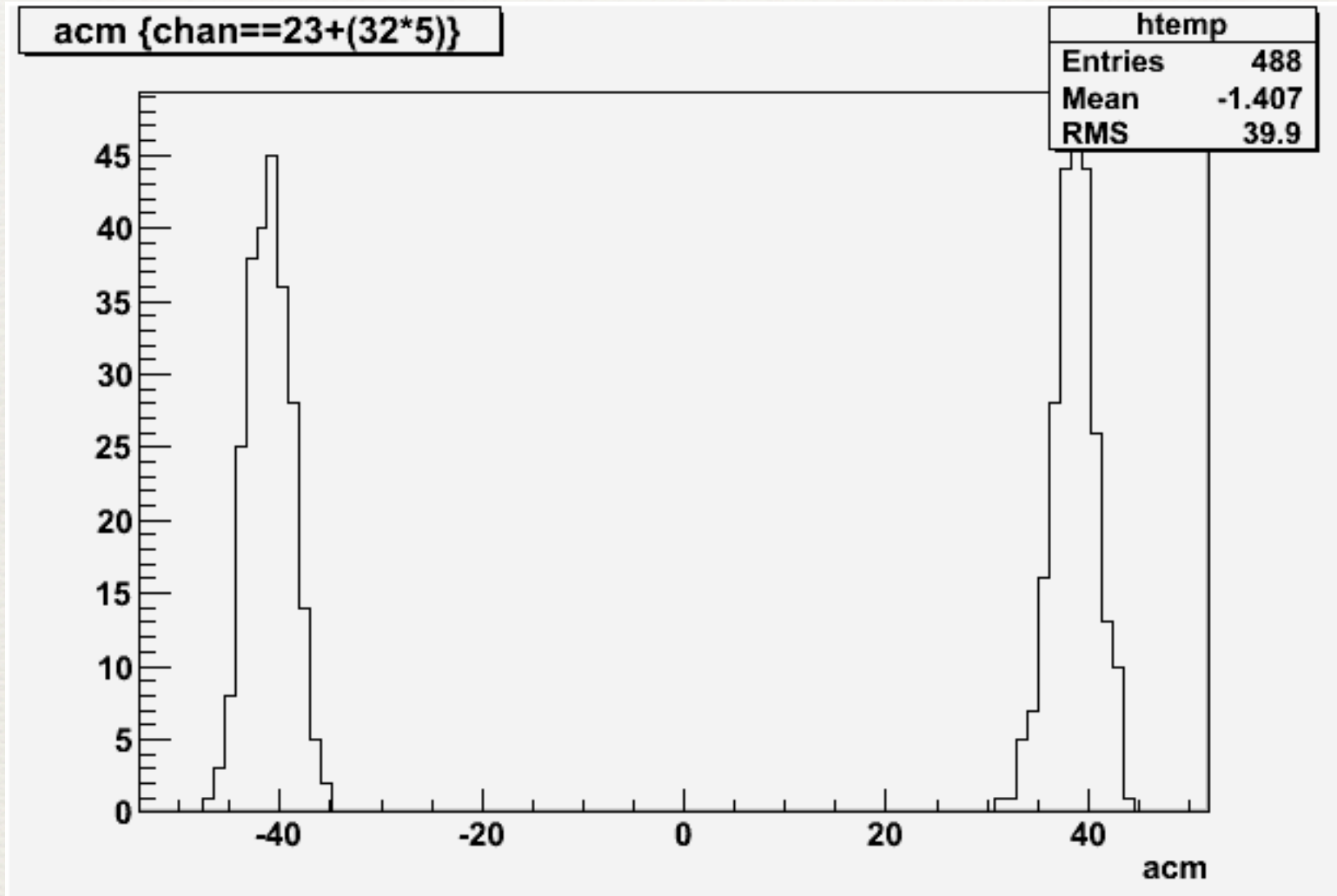


# Channel Cross-talk

(Adj. Channel NOT Strip)

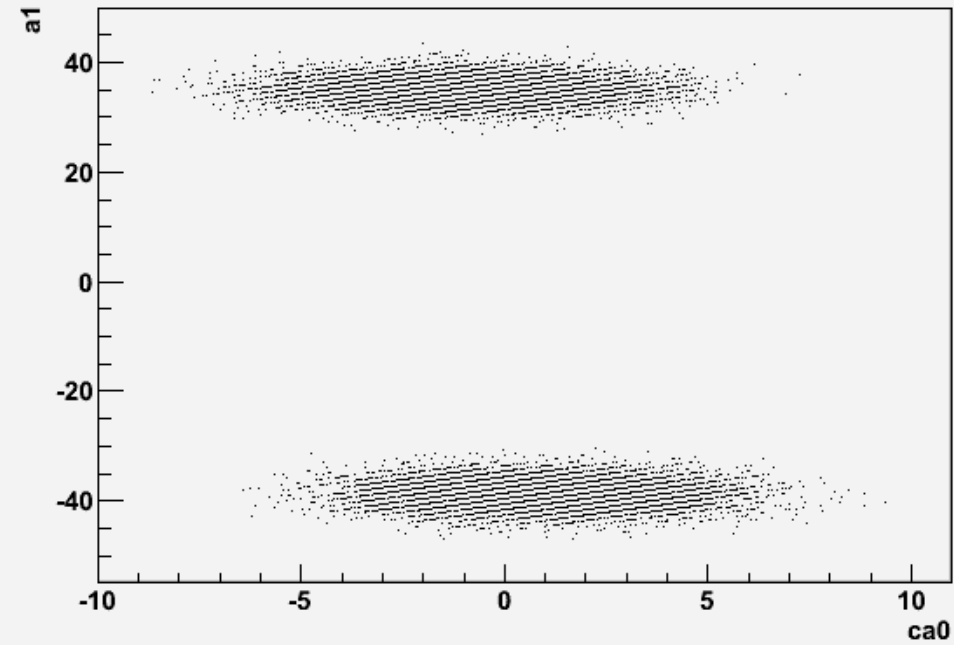


# Test Pulses

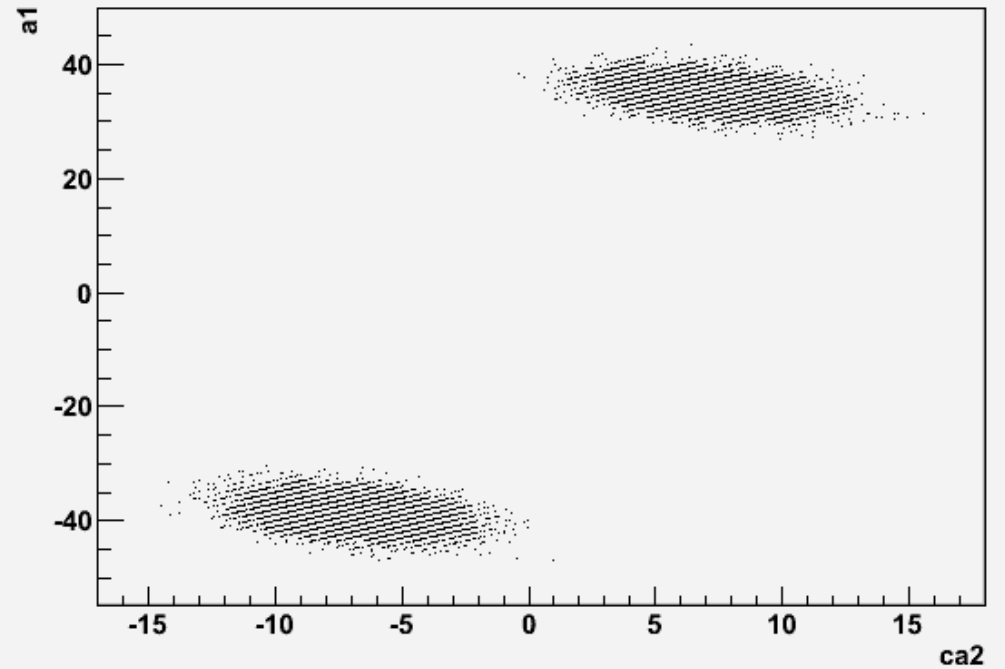


# Test pulse correlation

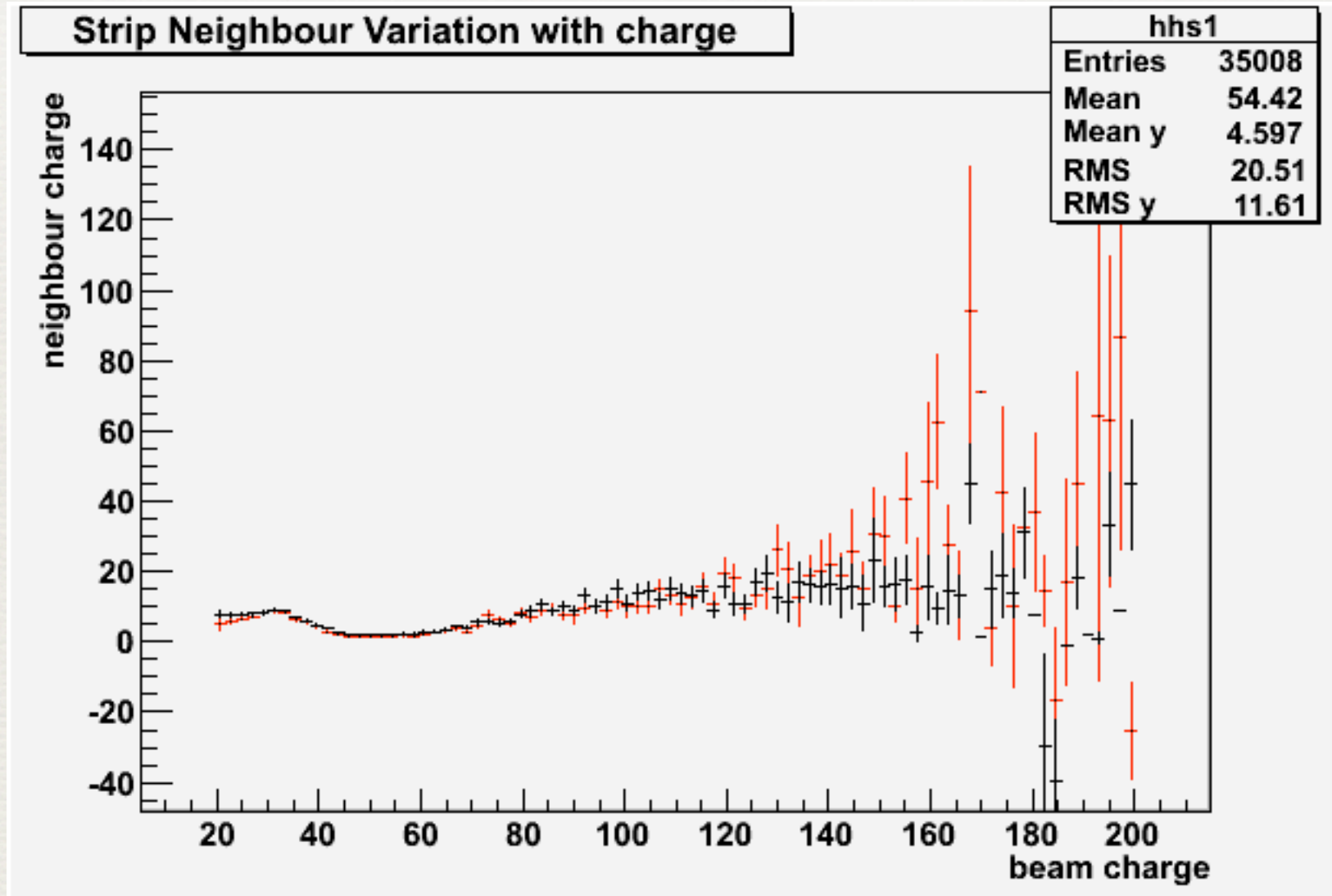
a1:ca0 {c1==1143}



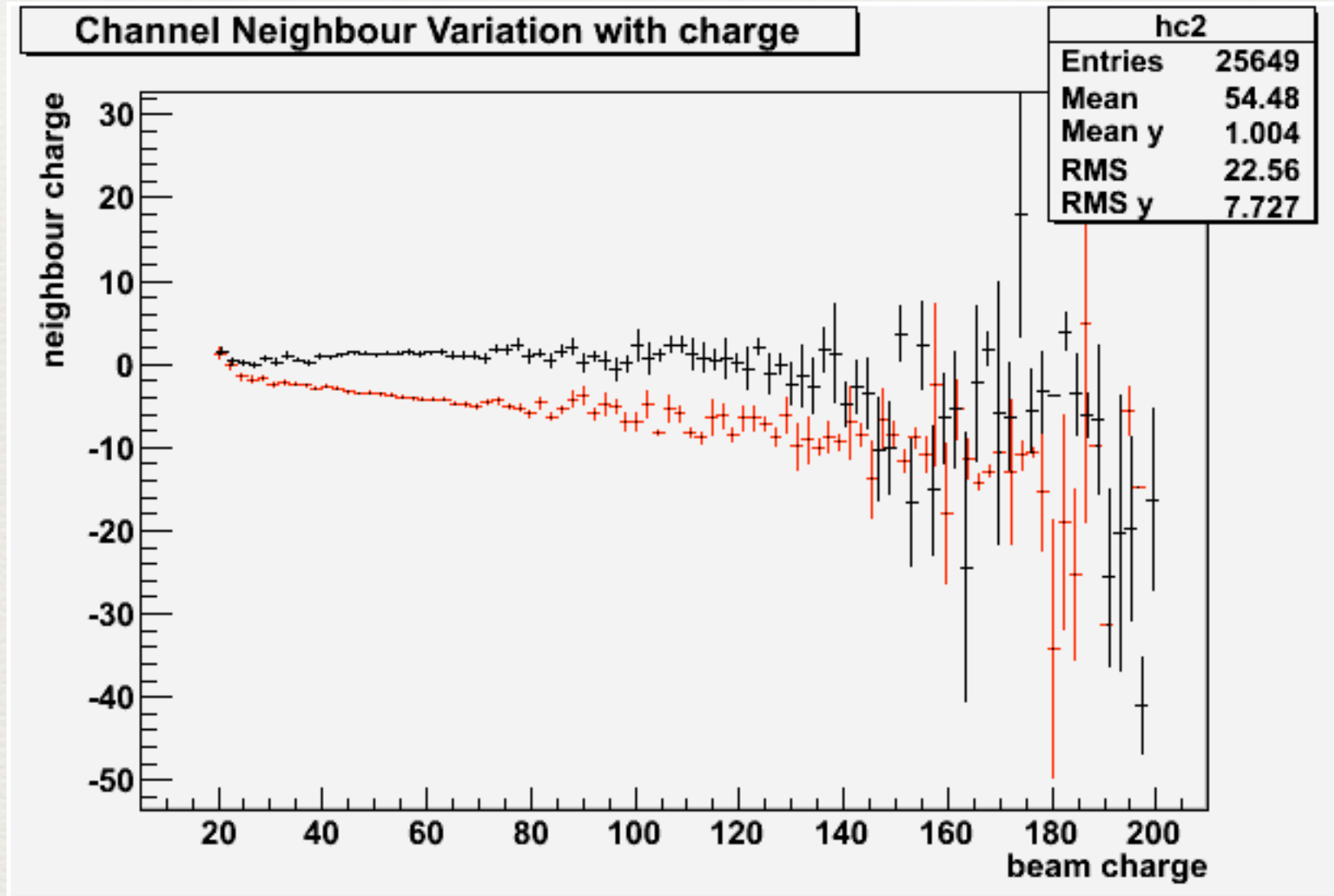
a1:ca2 {c1==1143}



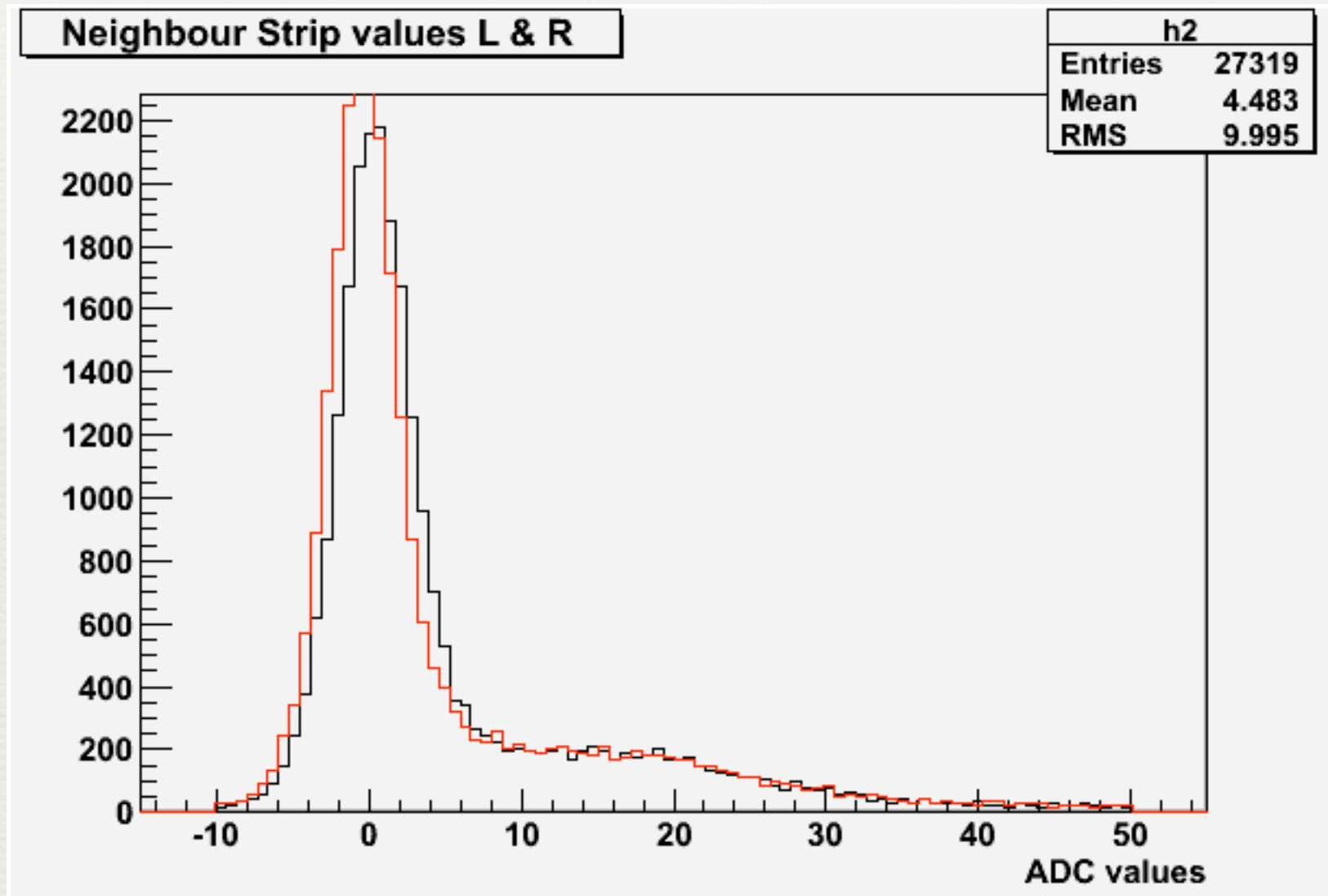
# Beam Data - Strip



# Beam Data - Channel



# ADC values (landau) - strip



# ADC values (landau) - channel

