

TPC BAD CHANNEL SEARCH UPDATE

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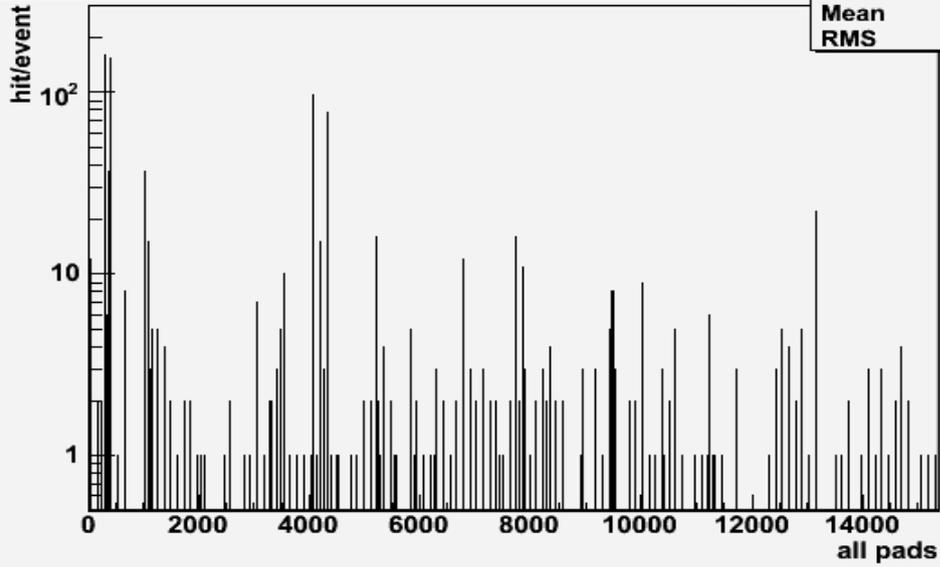
Hot Pad Search using Calibration events

- Carbon, Bismuth, and Empty target for 120 GeV/c
- 58 GeV/c Carbon target
- # hits/ # events plots subrun by subrun and for whole run
- single pad may have more than one hit in an event due to time buckets
- Each subrun has around 300 calibration events over 5000 total events

120 GeV/c Carbon target

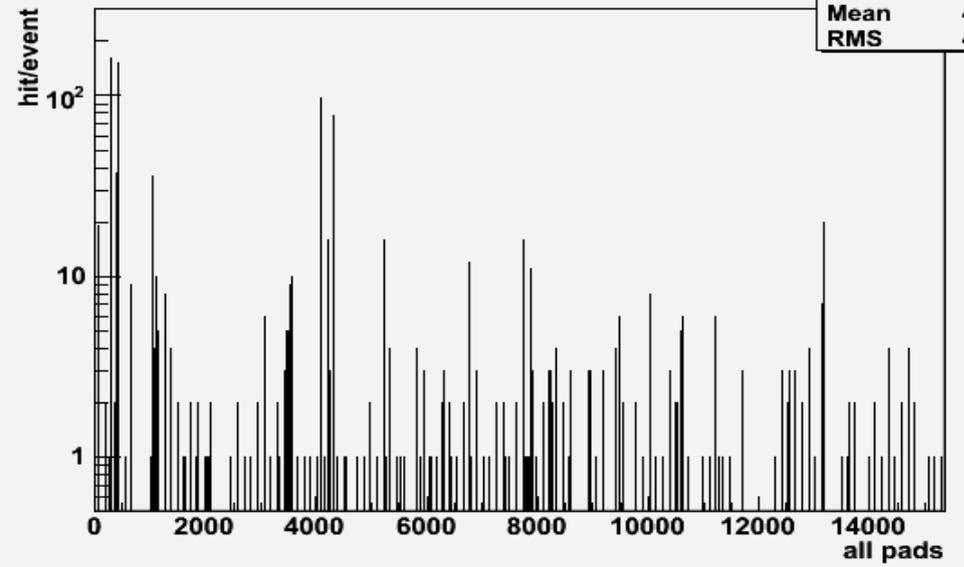
120 GeV/c Carbon target pad hit distributions for calib events subrun 0

TPCHitPadRowCol	
Entries	979
Mean	4138
RMS	4059



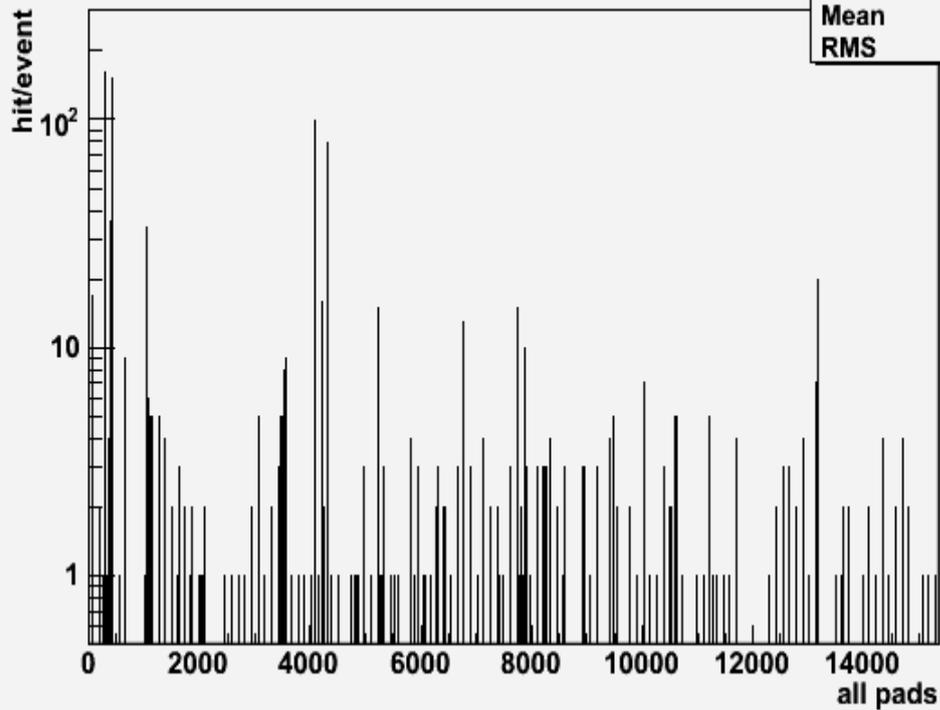
120 GeV/c Carbon target pad hit distributions for calib events subrun 1

TPCHitPadRowCol	
Entries	1180
Mean	4059
RMS	4009



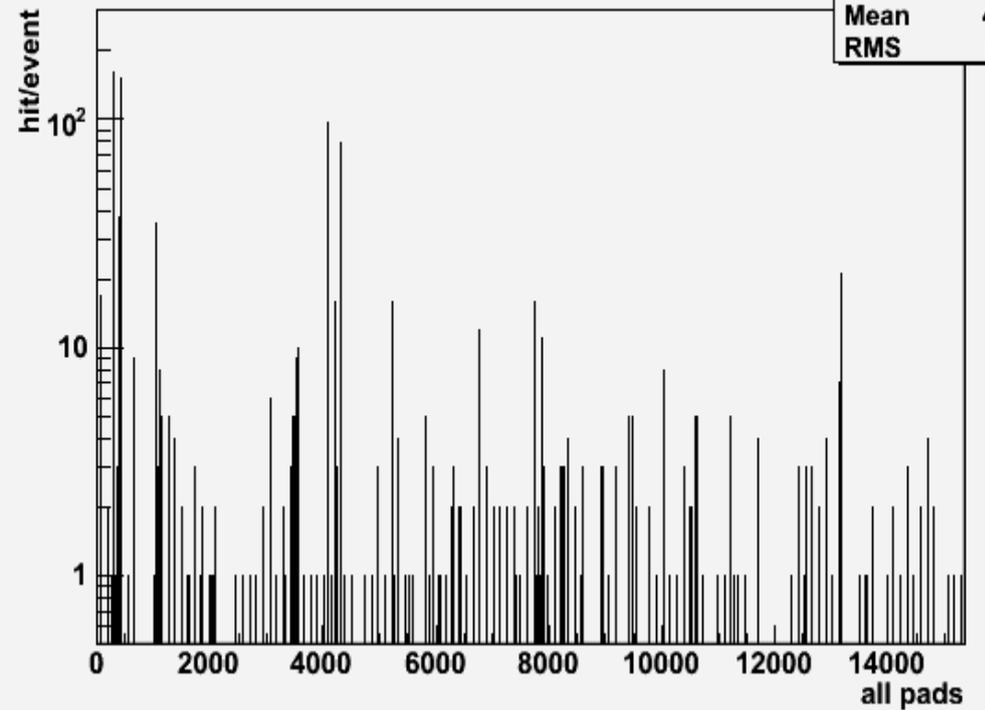
120 GeV/c Carbon target pad hit distributions for calib events subrun 2

TPCHitPadRowCol	
Entries	1371
Mean	4072
RMS	3999



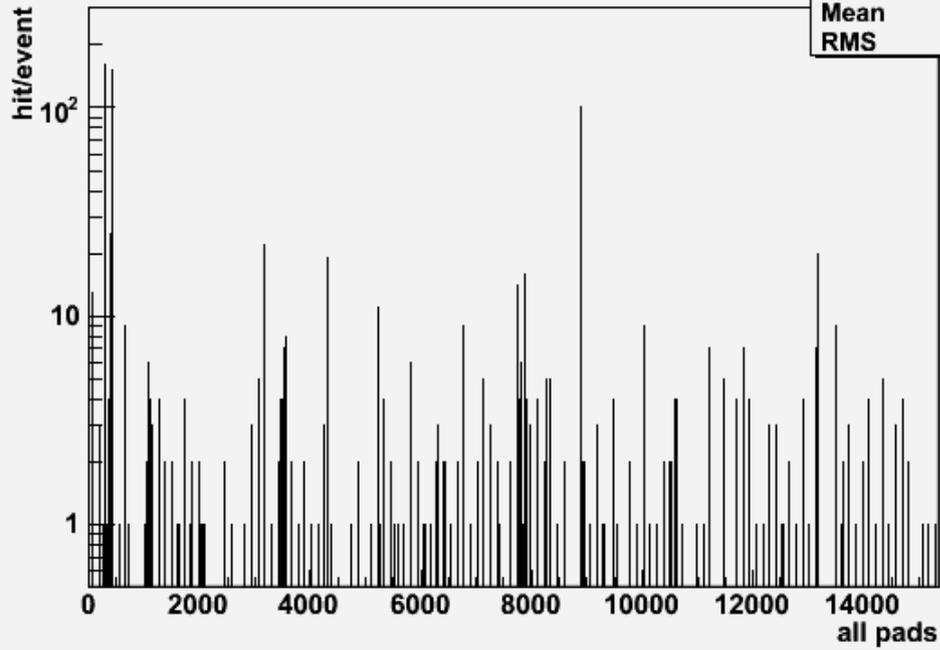
120 GeV/c Carbon target pad hit distributions for calib events 4 subruns together

TPCHitPadRowCol	
Entries	2036
Mean	4037
RMS	3991



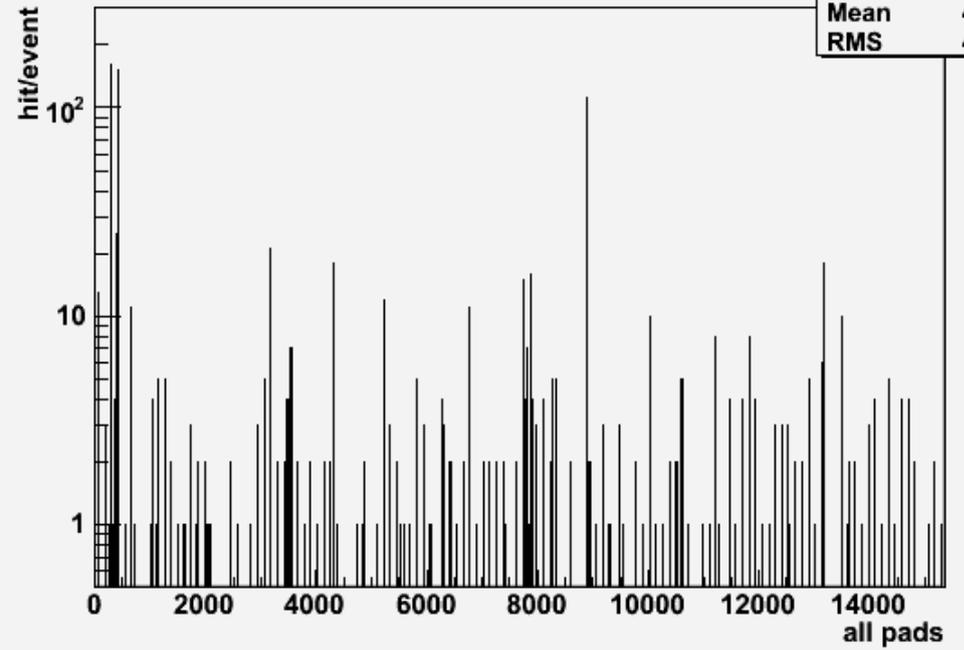
120 GeV/C Bismuth Target

120 GeV/c Bismuth target pad hit distributions for calib events subrun 0



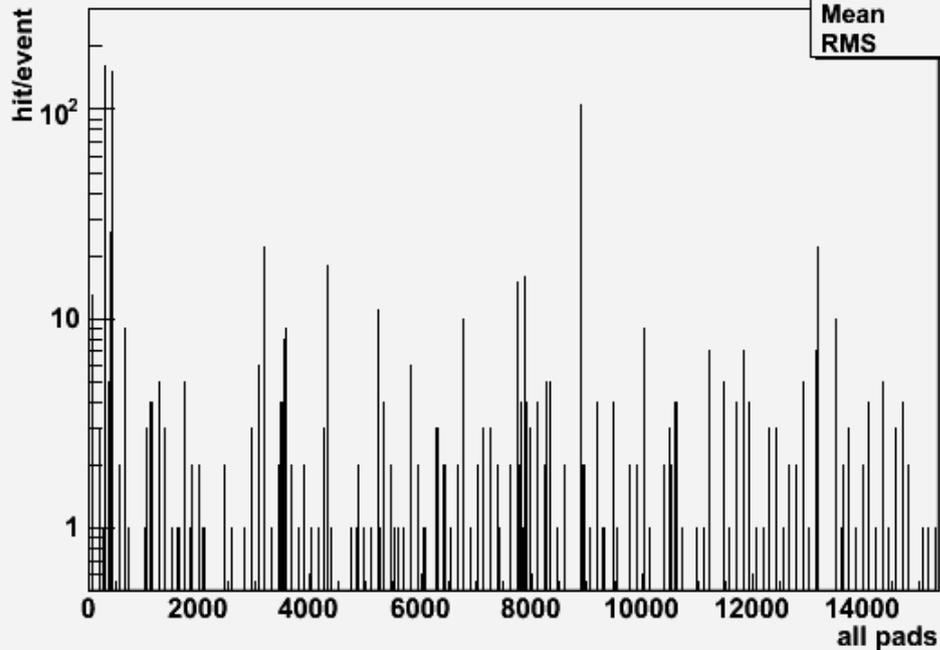
TPCHitPadRowCol	
Entries	15360
Mean	4627
RMS	4680

120 GeV/c Bismuth target pad hit distributions for calib events subrun 1



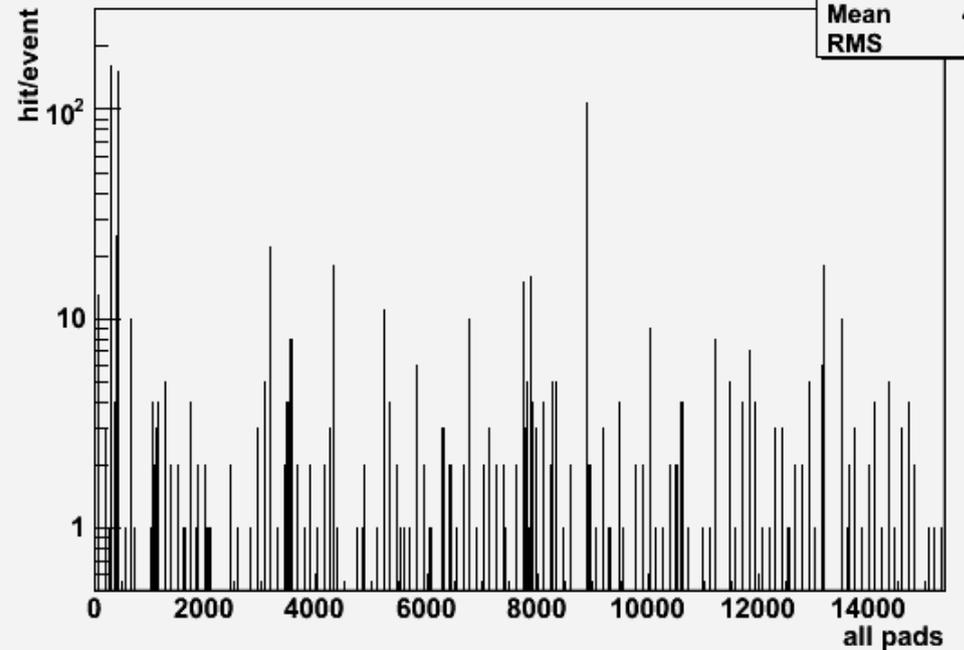
TPCHitPadRowCol	
Entries	15360
Mean	4734
RMS	4682

120 GeV/c Bismuth target pad hit distributions for calib events subrun 2



TPCHitPadRowCol	
Entries	15360
Mean	4753
RMS	4711

120 GeV/c Bismuth target pad hit distributions for calib events 4 subruns together

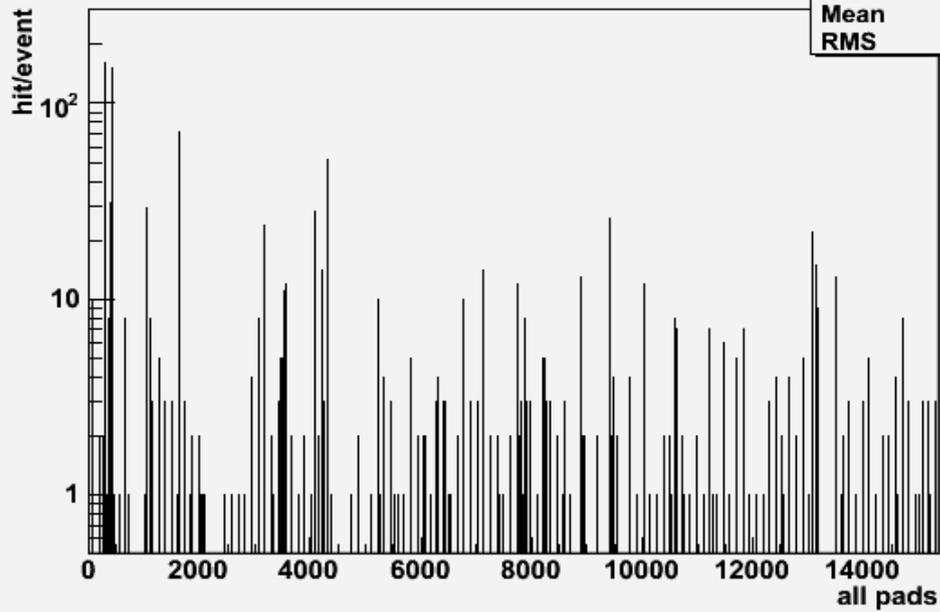


TPCHitPadRowCol	
Entries	15360
Mean	4705
RMS	4681

120 GeV/c empty target

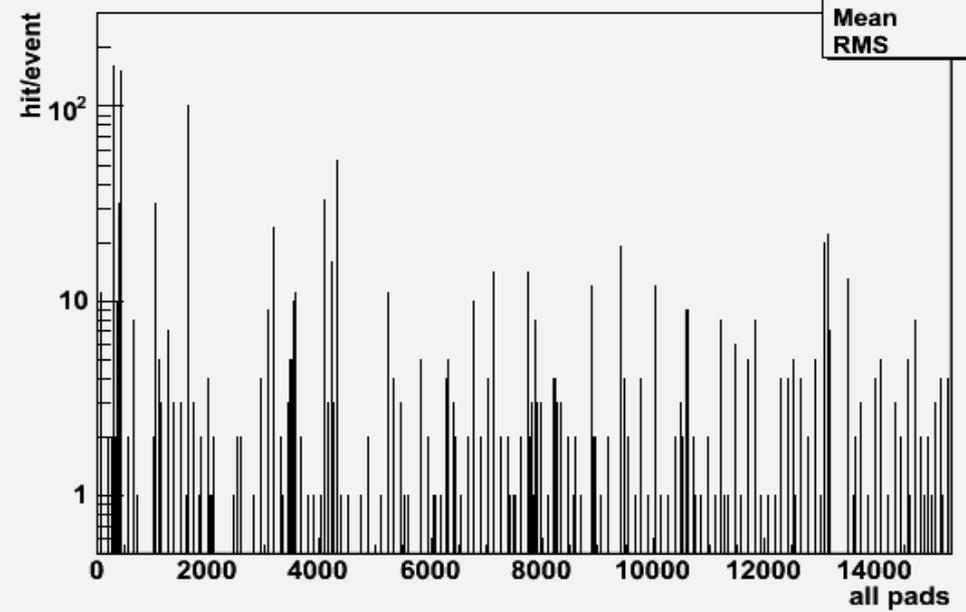
120 GeV/c Empty target pad hit distributions for calib events subrun 2

TPCHitPadRowCol	
Entries	15360
Mean	4672
RMS	4468



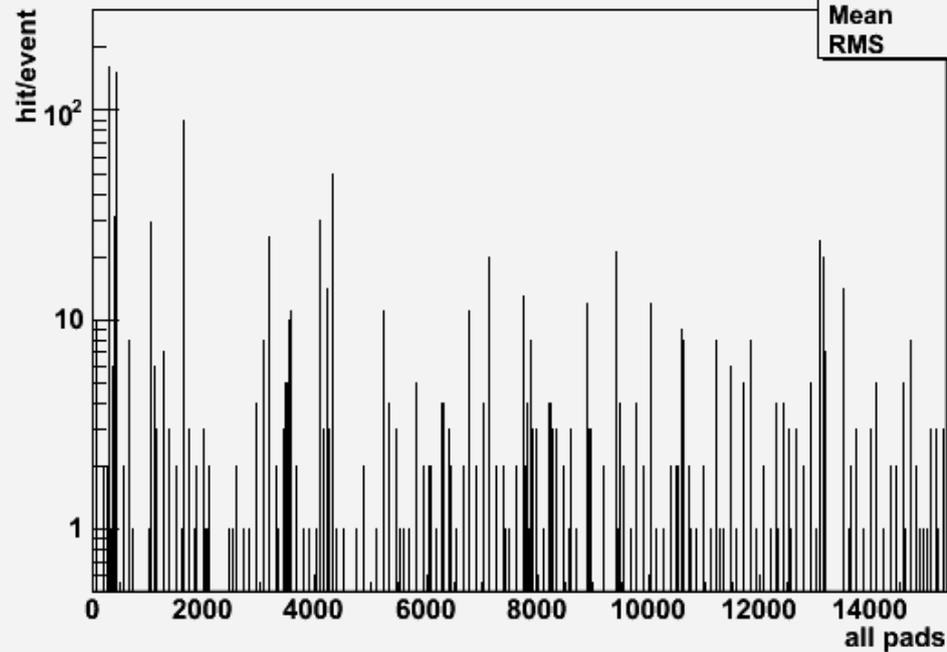
120 GeV/c Empty target pad hit distributions for calib events subrun 1

TPCHitPadRowCol	
Entries	15360
Mean	4665
RMS	4474



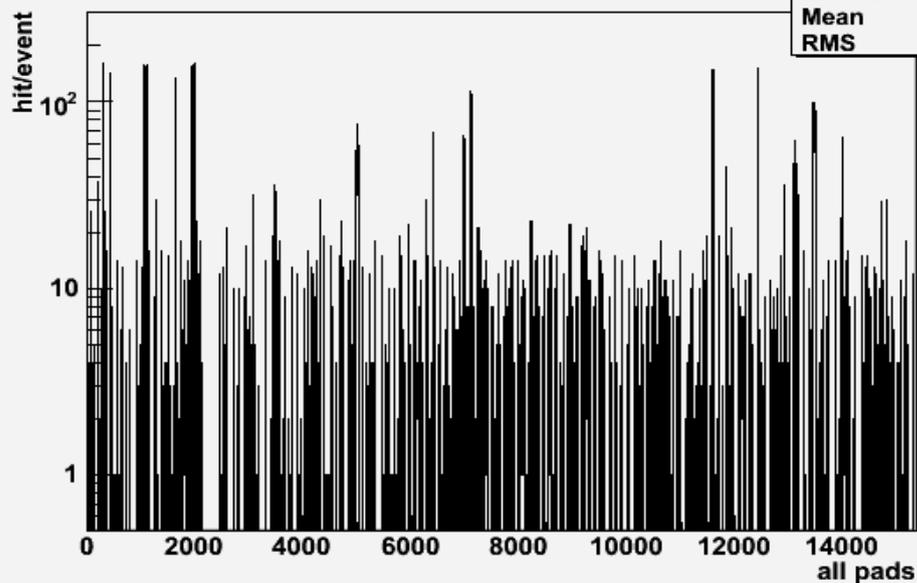
120 GeV/c Empty target pad hit distributions for calib events 4 subruns together

TPCHitPadRowCol	
Entries	15360
Mean	4729
RMS	4488



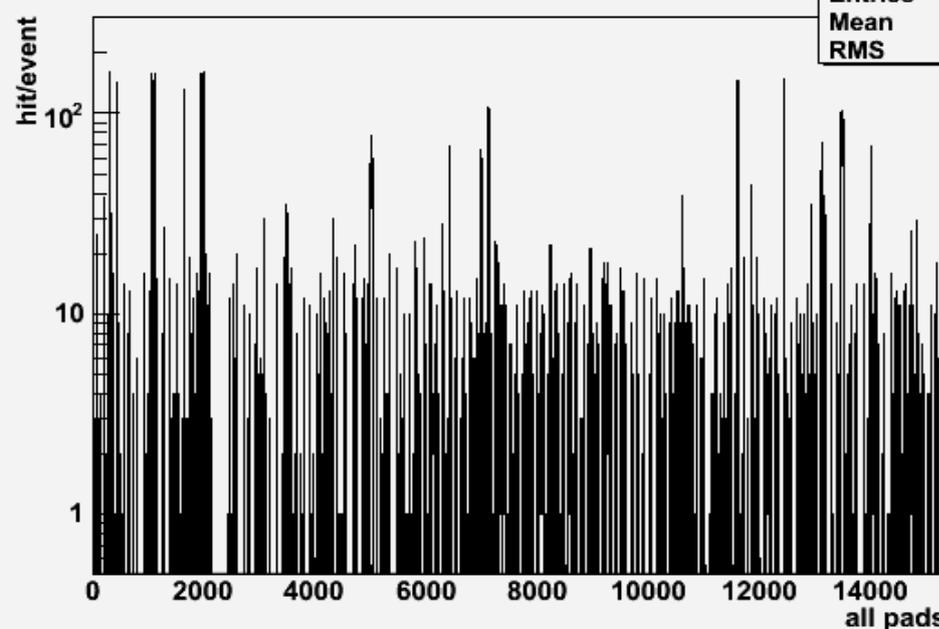
58 GeV/c Carbon target

58 GeV/c Carbon target pad hit distributions for calib events subrun 0



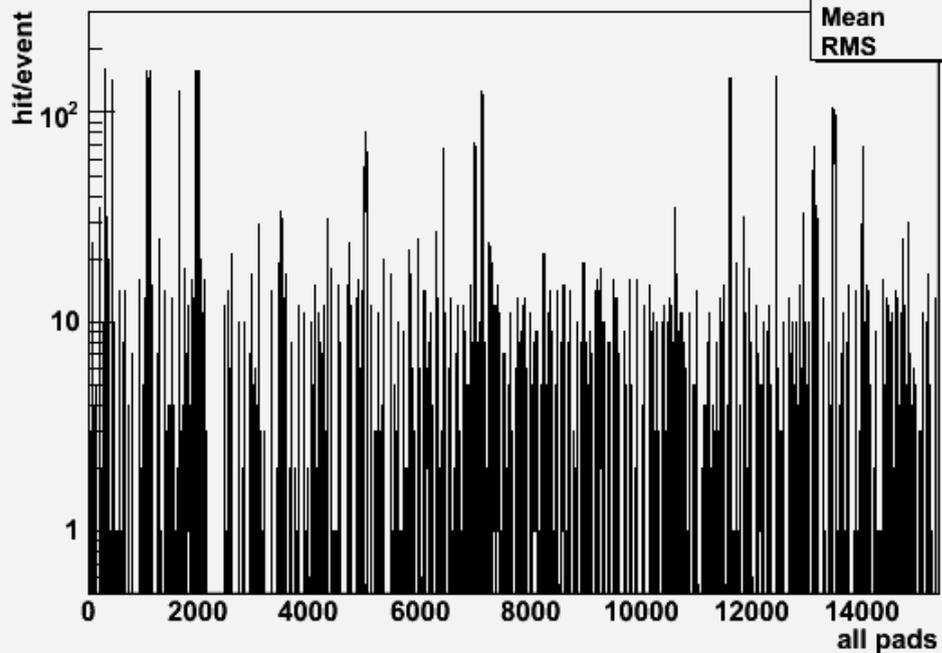
TPCHitPadRowCol	
Entries	15360
Mean	8007
RMS	4527

58 GeV/c Carbon target pad hit distributions for calib events subrun 1



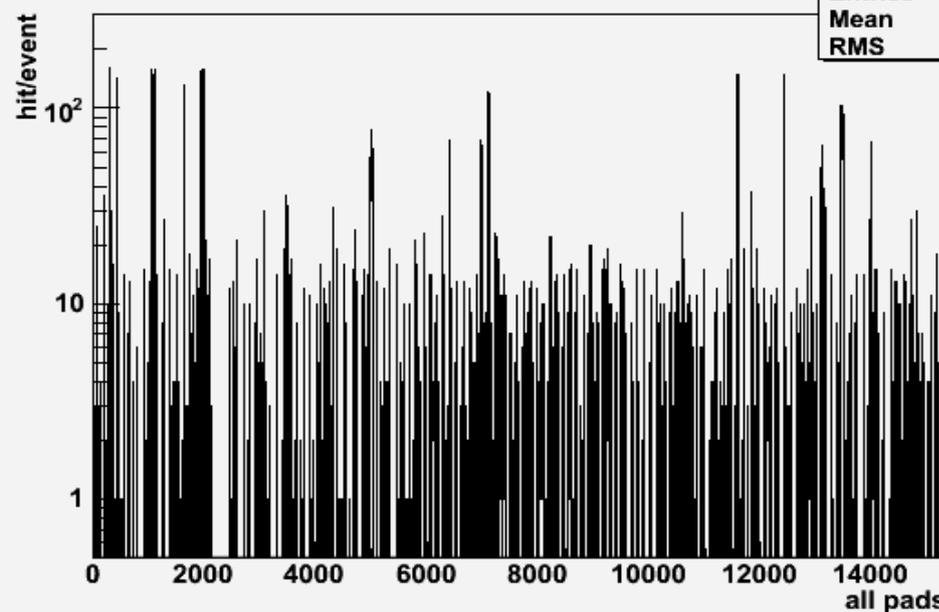
TPCHitPadRowCol	
Entries	15360
Mean	8071
RMS	4524

58 GeV/c Carbon target pad hit distributions for calib events subrun 2



TPCHitPadRowCol	
Entries	15360
Mean	8068
RMS	4519

58 GeV/c Carbon target pad hit distributions for calib events 4 subruns together

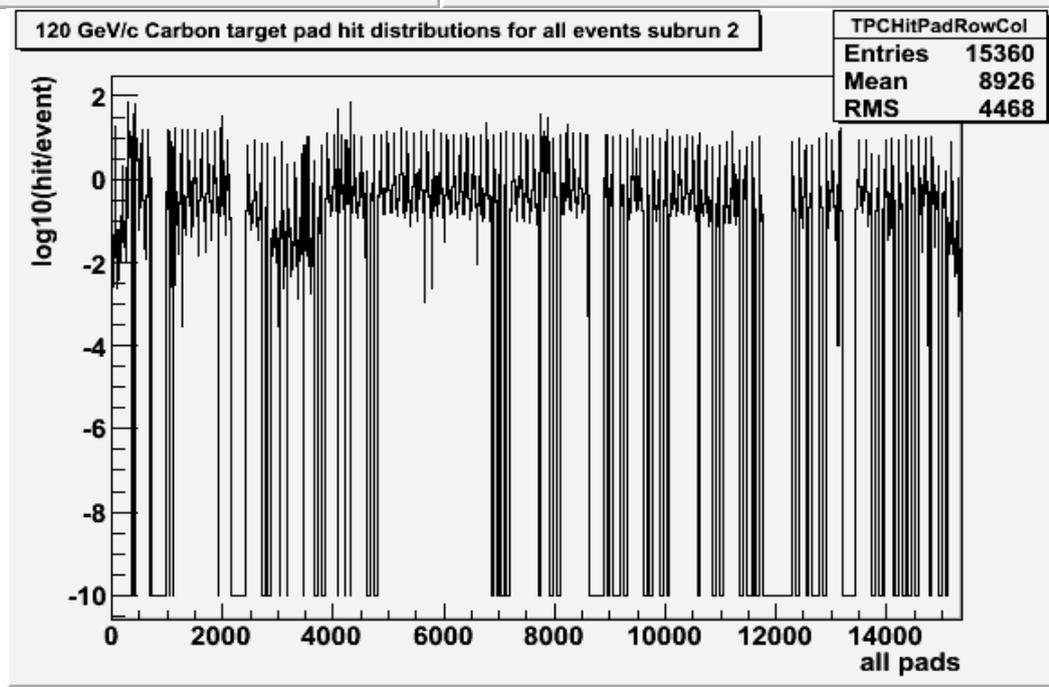
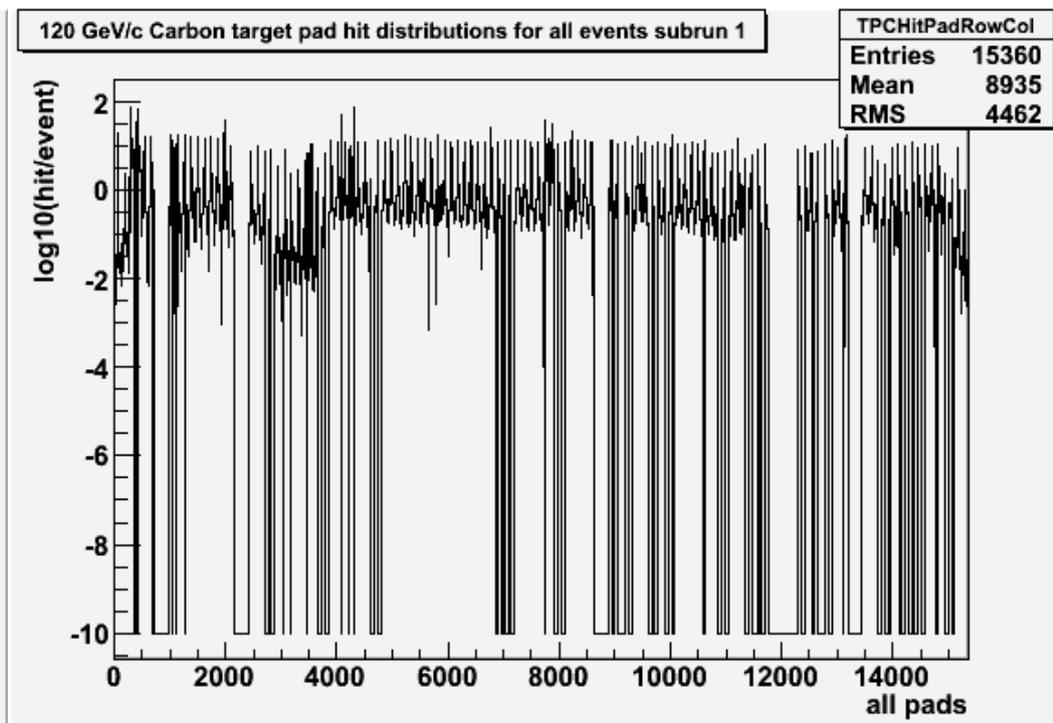
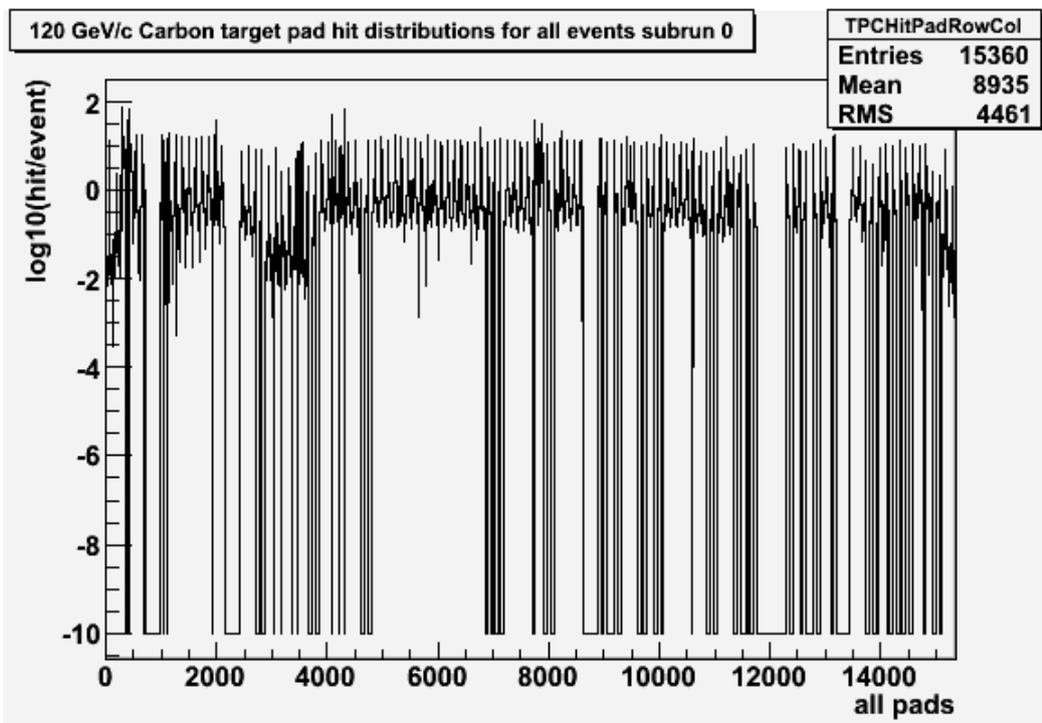


TPCHitPadRowCol	
Entries	15360
Mean	8047
RMS	4514

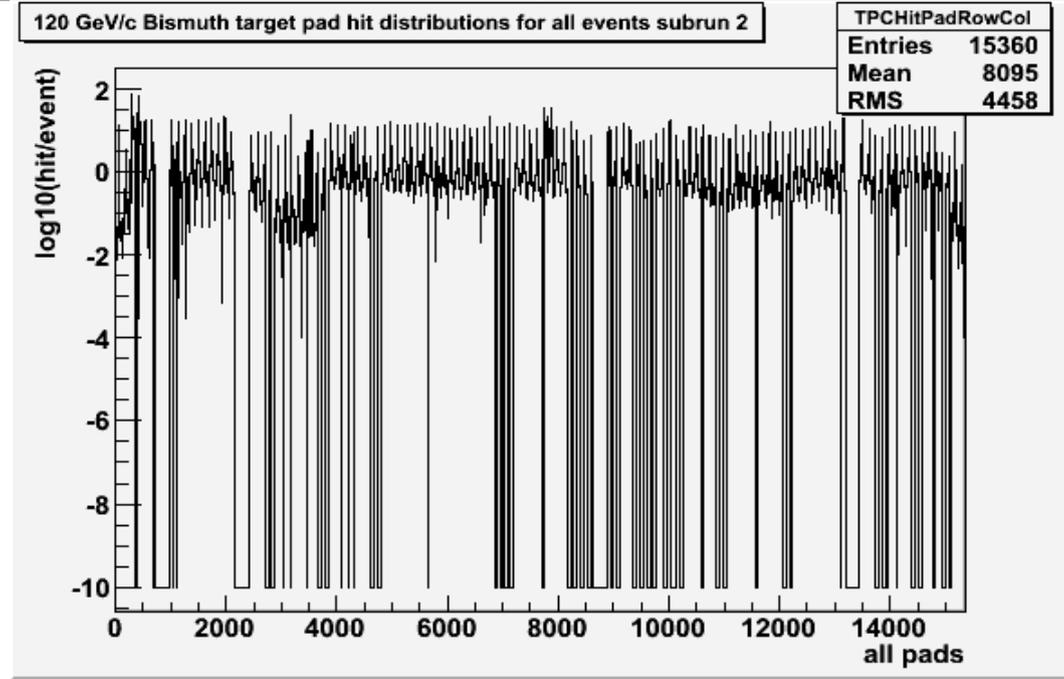
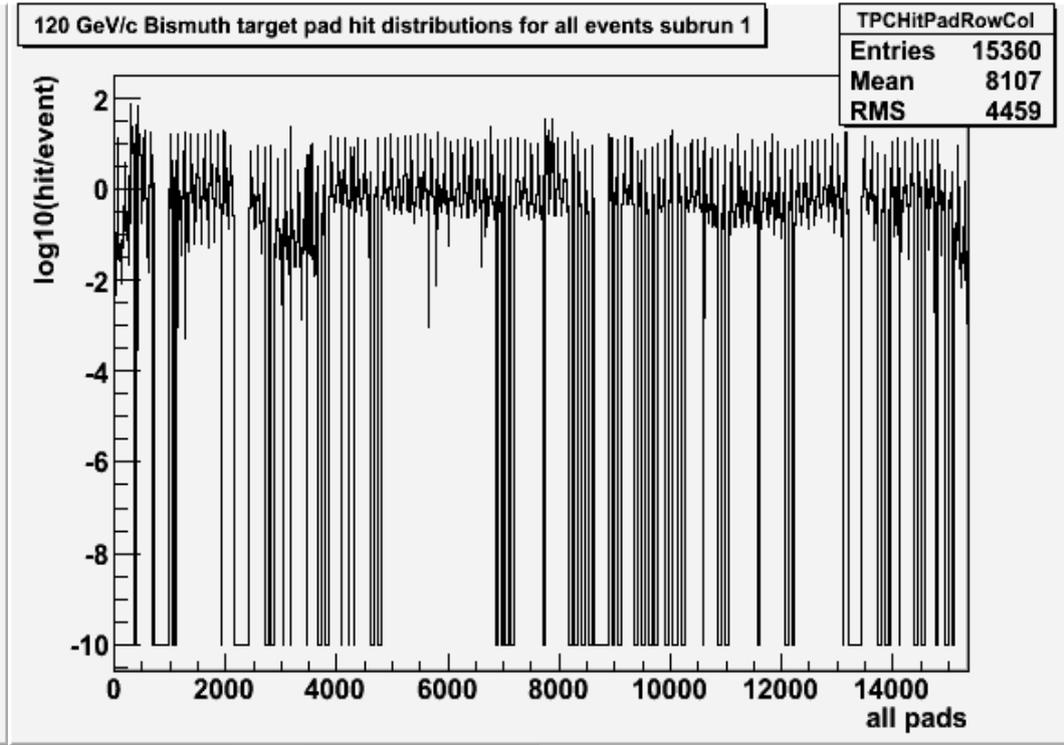
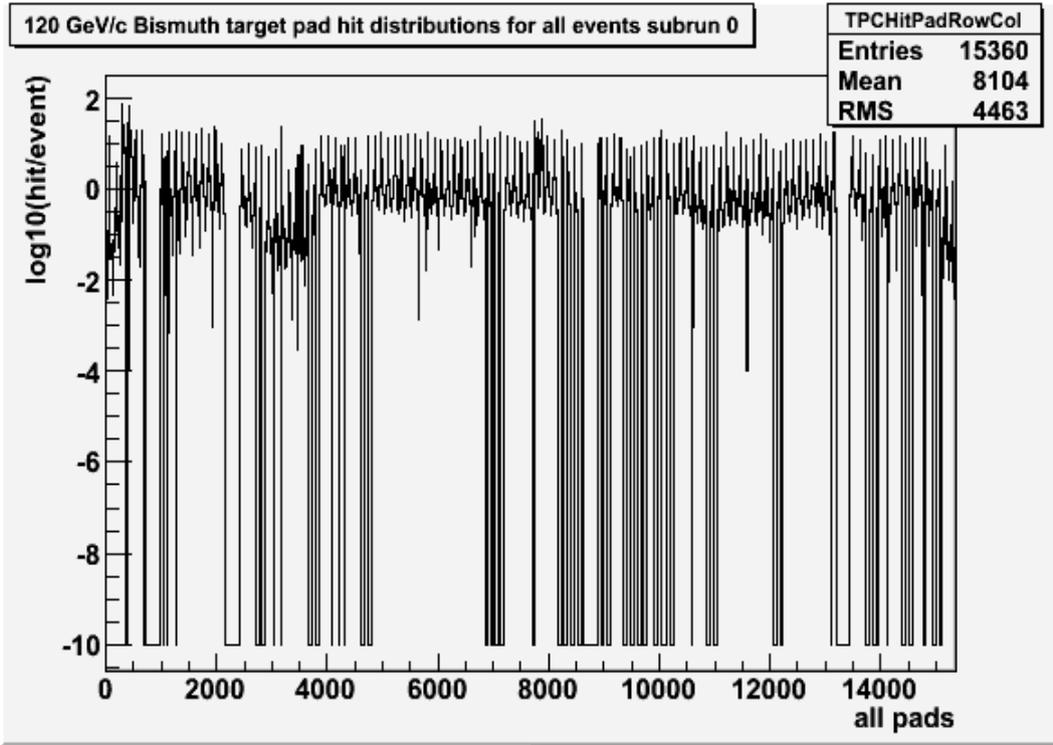
DEAD CHANNEL SEARCH using all events

- $\log_{10}(\text{hit}/\text{event})$ plots for all pads subrun by subrun**
- if pad has no hits, -10 was put on y axis**

120 GeV/c Carbon Target



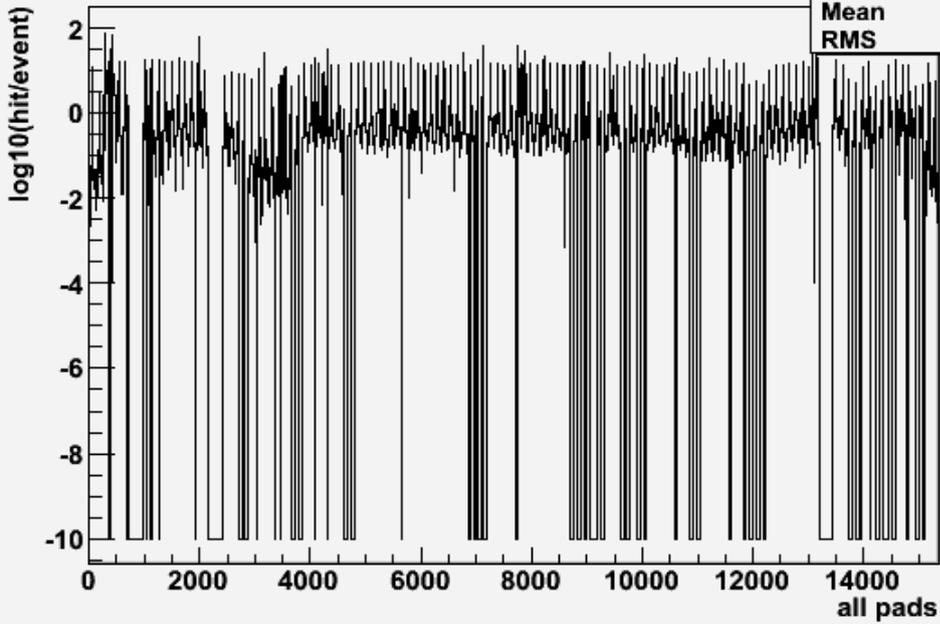
120 GeV/c Bismuth Target



120 GeV/c Empty Target

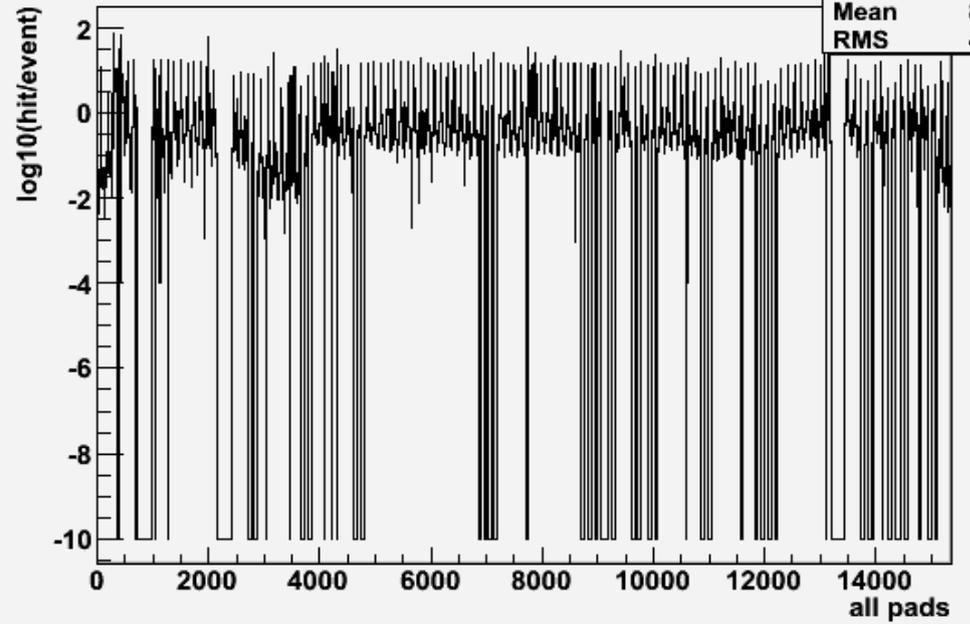
120 GeV/c Empty target pad hit distributions for all events subrun 0

TPCHitPadRowCol	
Entries	15360
Mean	8239
RMS	4761



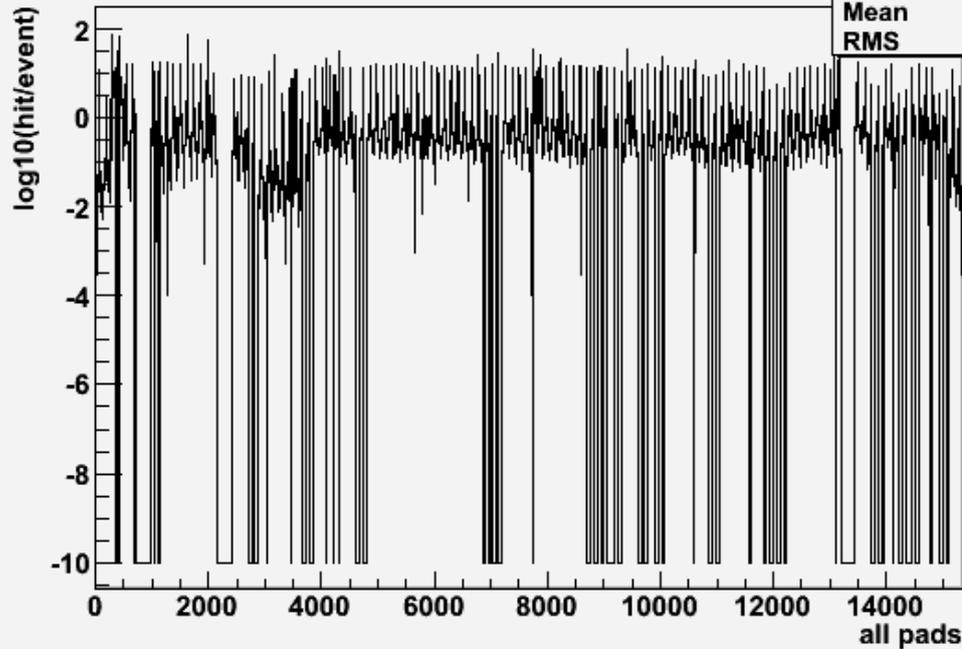
120 GeV/c Empty target pad hit distributions for all events subrun 1

TPCHitPadRowCol	
Entries	15360
Mean	8249
RMS	4758



120 GeV/c Empty target pad hit distributions for all events subrun 2

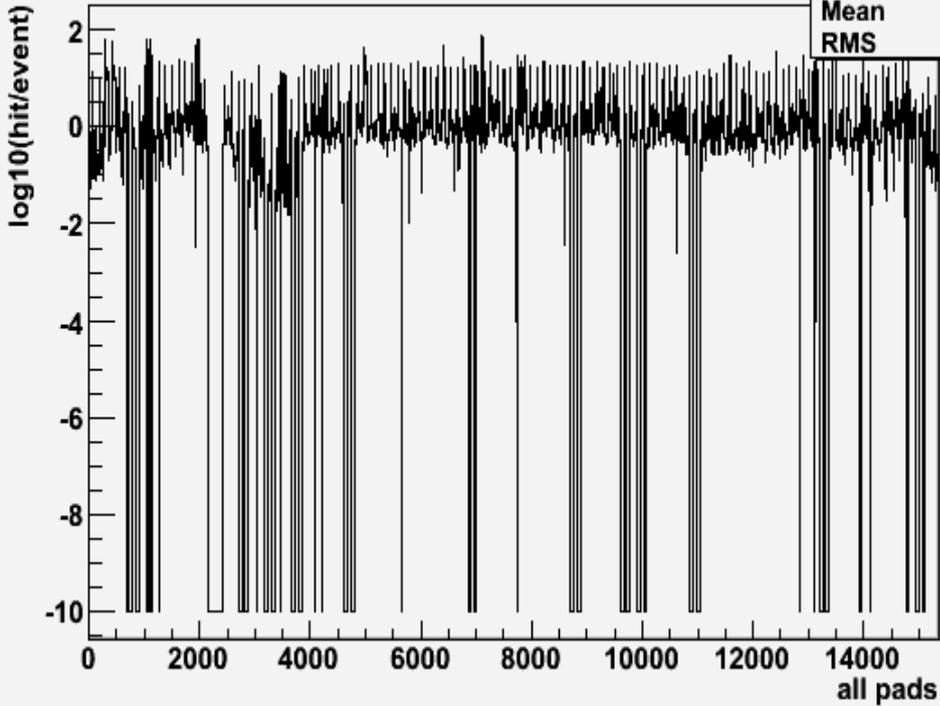
TPCHitPadRowCol	
Entries	15360
Mean	8229
RMS	4766



58 GeV/c Carbon Target

58 GeV/c Carbon target pad hit distributions for all events subrun 0

TPCHitPadRowCol	
Entries	15360
Mean	6873
RMS	4629



58 GeV/c Carbon target pad hit distributions for all events subrun 1

TPCHitPadRowCol	
Entries	15360
Mean	6861
RMS	4620

