SSD Online Monitoring

2006-12-05 13:19:16

Global Information:

Input File Name : /LOCAL_st_physics_7339015_raw_1030002.daq

ROOT File Name : /LOCAL_st_physics_7339015_raw_1030002.daq

PS File Name : /LOCAL_st_physics_7339015_raw_1030002.daq

Number of good events : 500

Number of bad events : 0

Number of good events for SSD: 500

Additional Information:

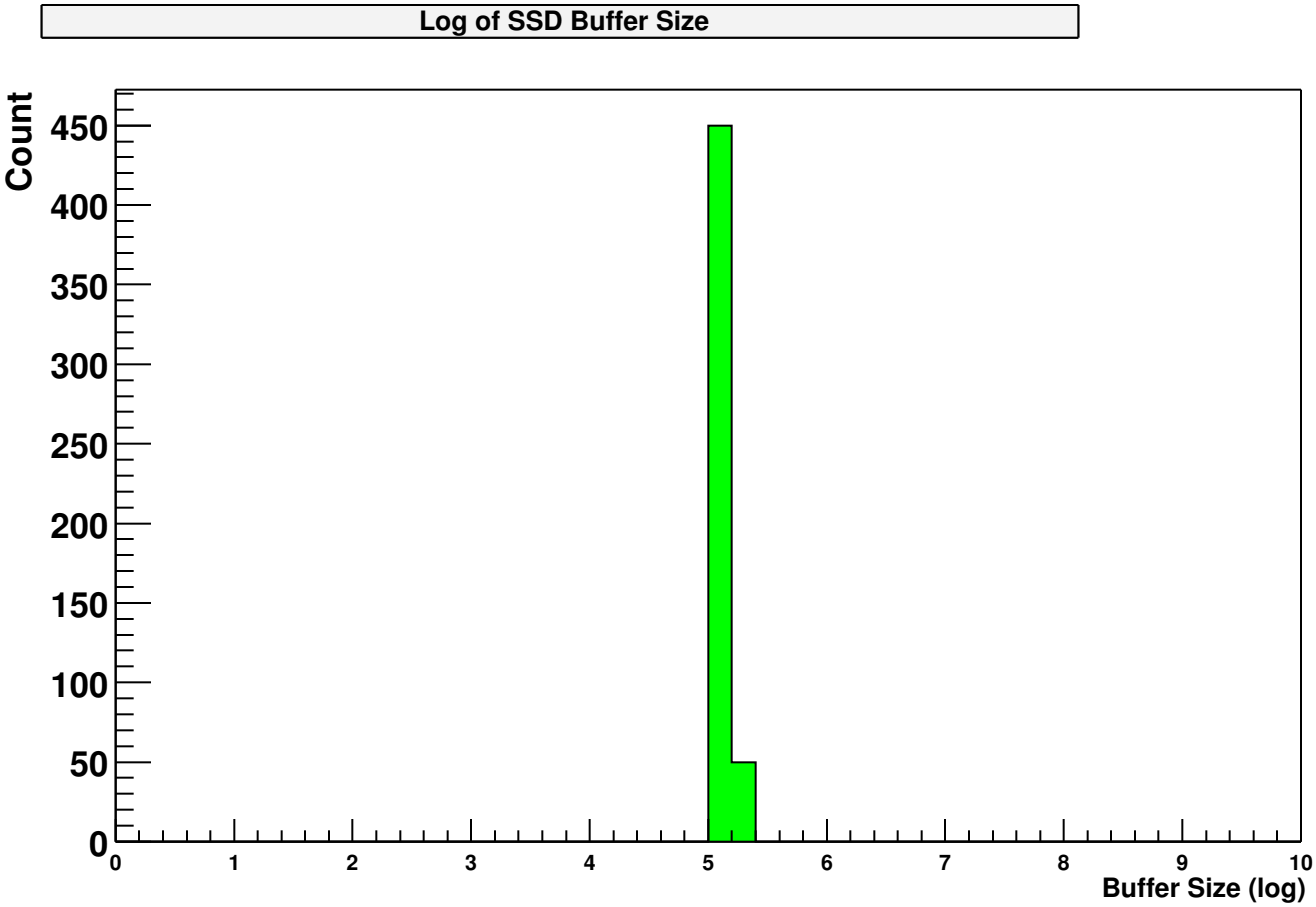
DAQ Threshold (0-suppression) : 6
Seed Threshold : 25
Cut for cluster matching : 0.5
Cluster Matching Plots : White=all - Red=matched

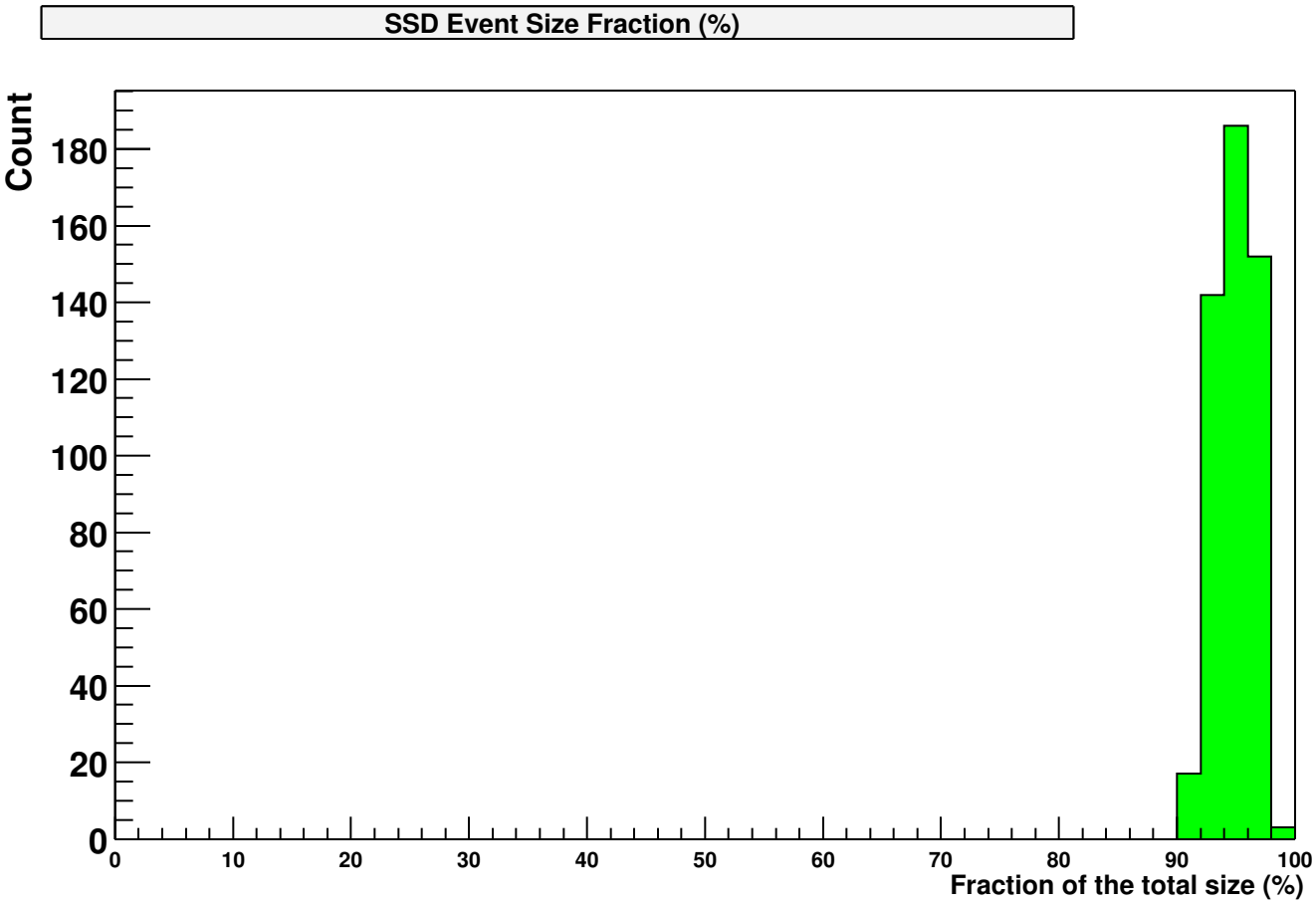
Definitions :

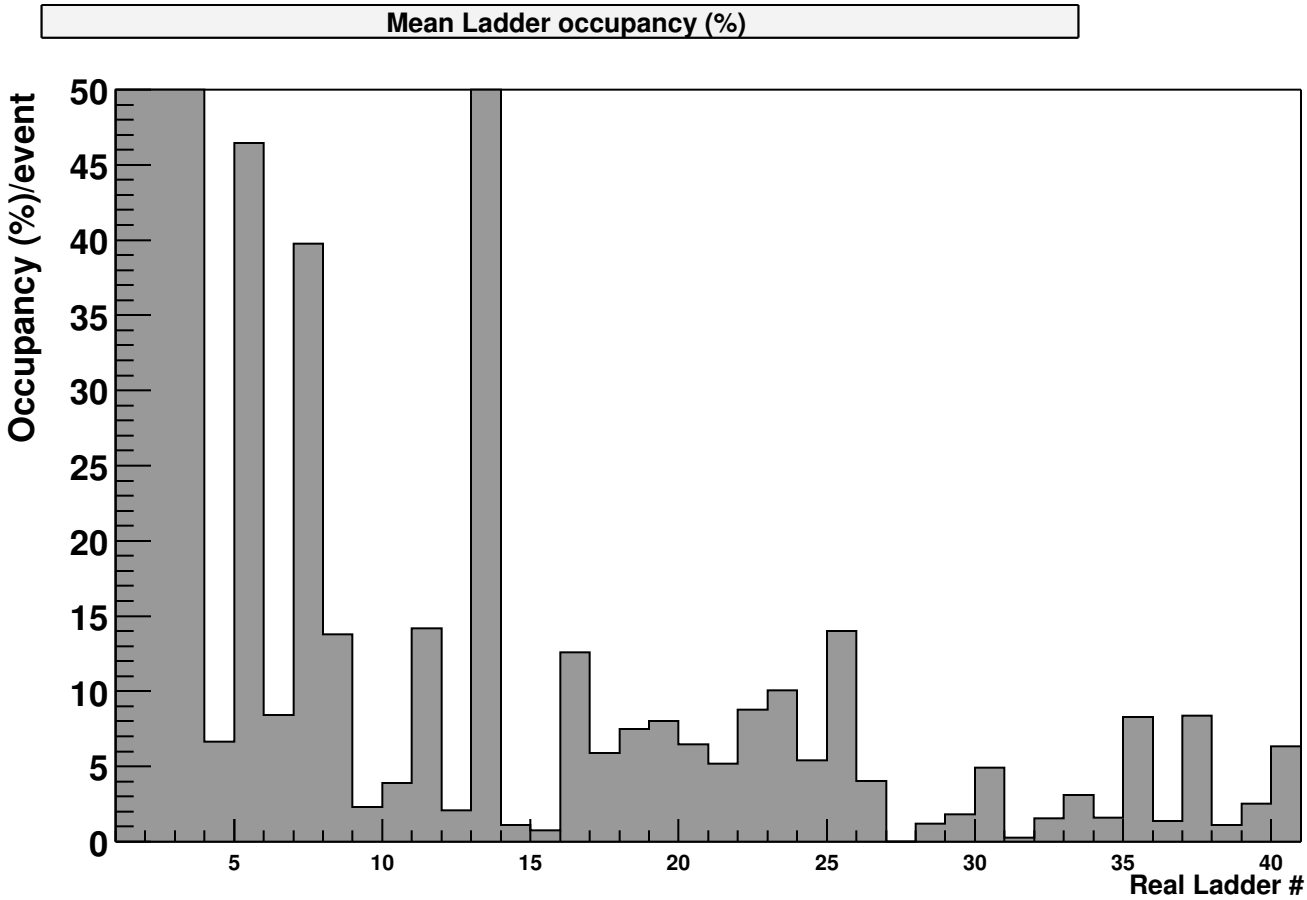
Signal : a hit that has more than 25 ADC counts

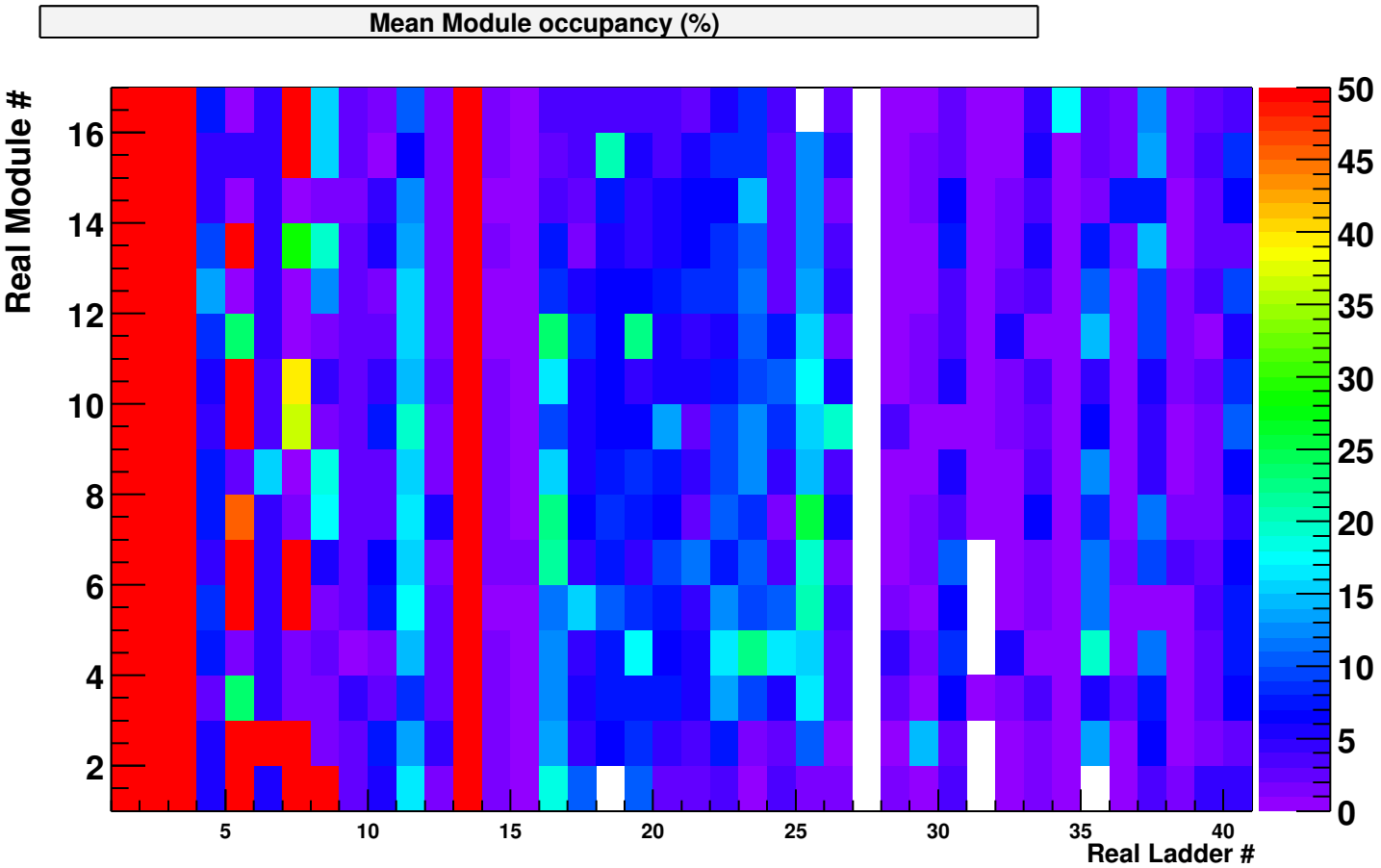
Occupancy : number of hit strips / total number of strips

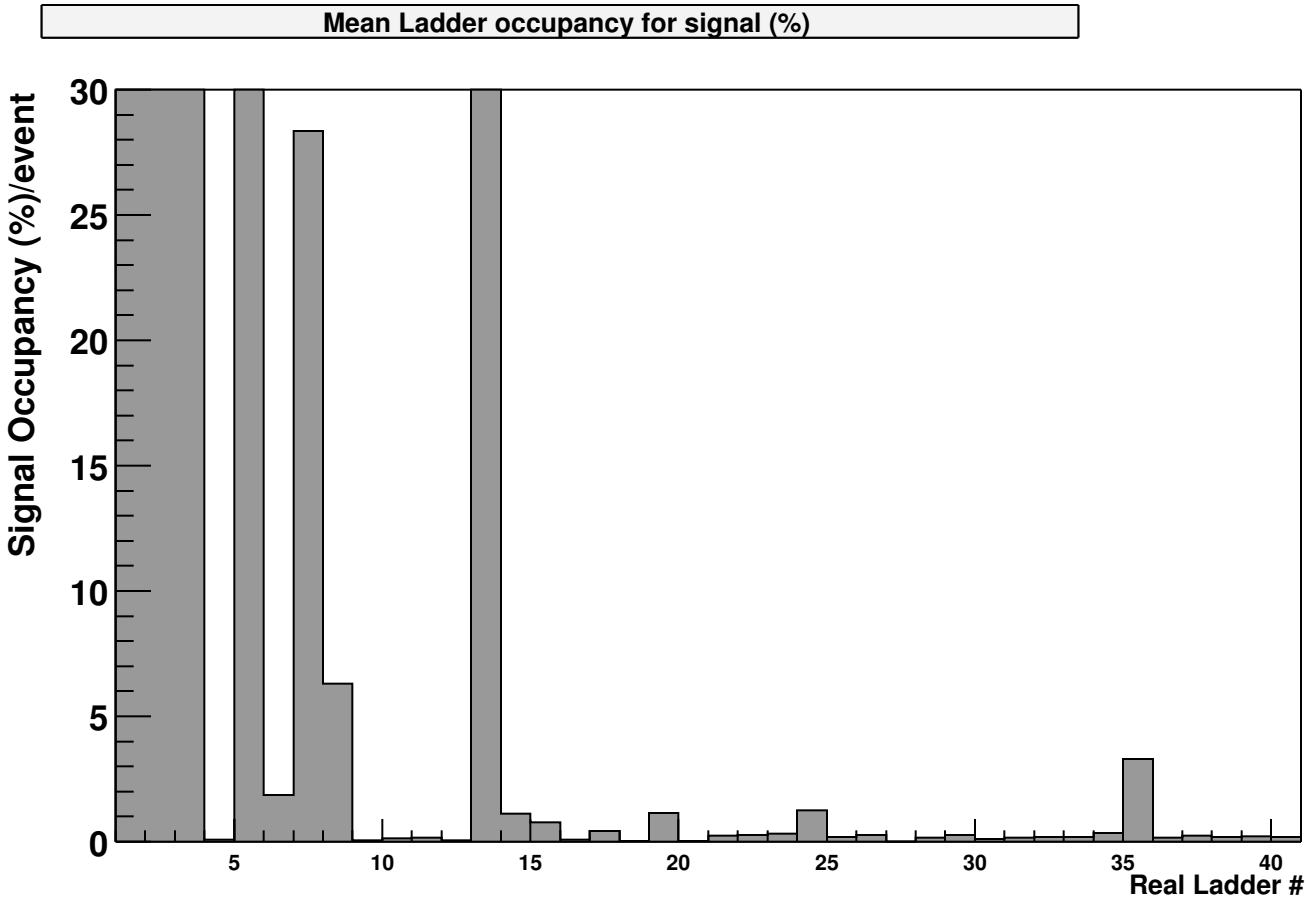
Mean pulse : sum of ADC counts / number of hit strips

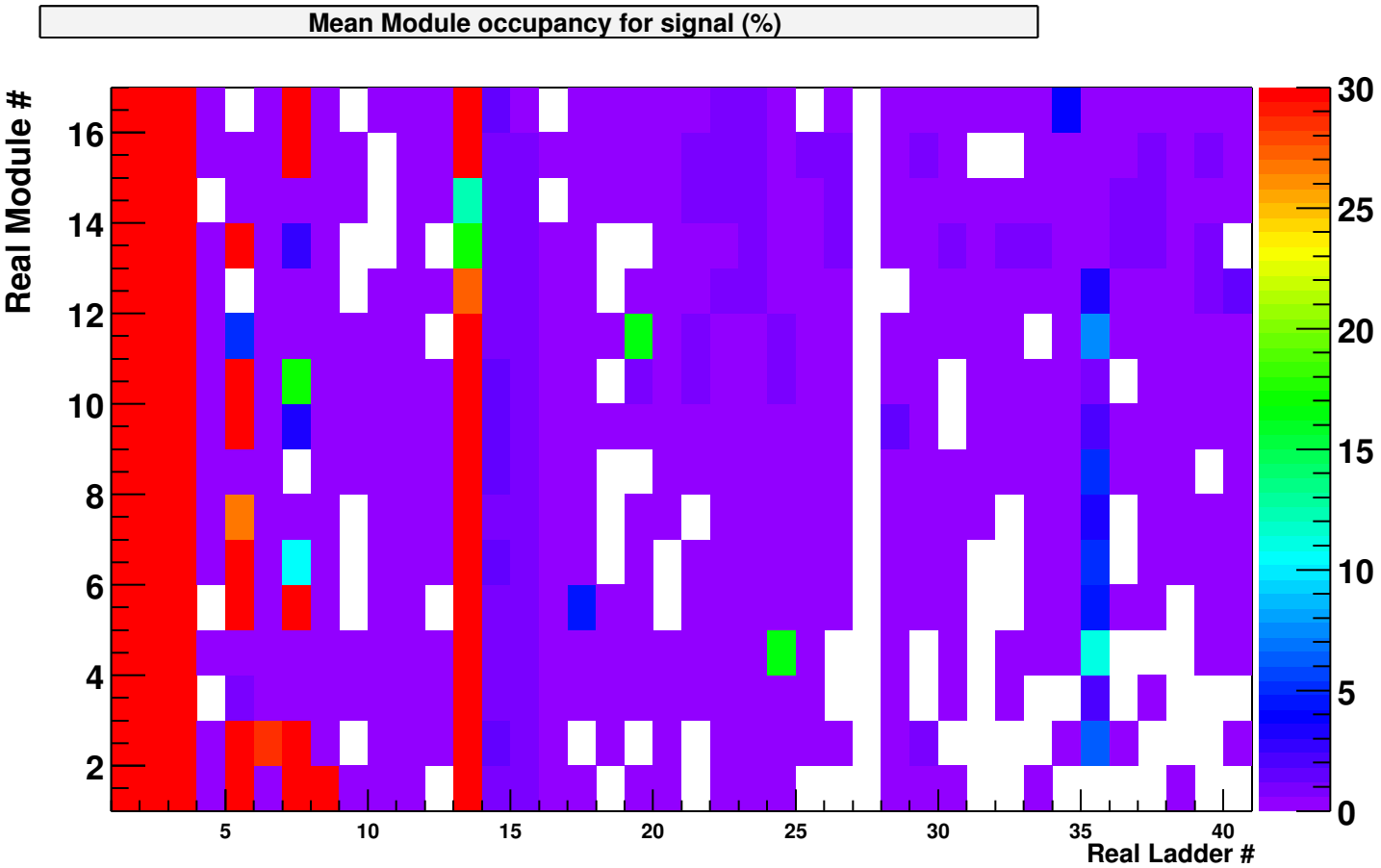

Log of SSD Buffer Size
Count
450
400
350
300
250
200
150
100
50
0
0
1
2
3
4
5
6
7
8
9
10
Buffer Size (log)

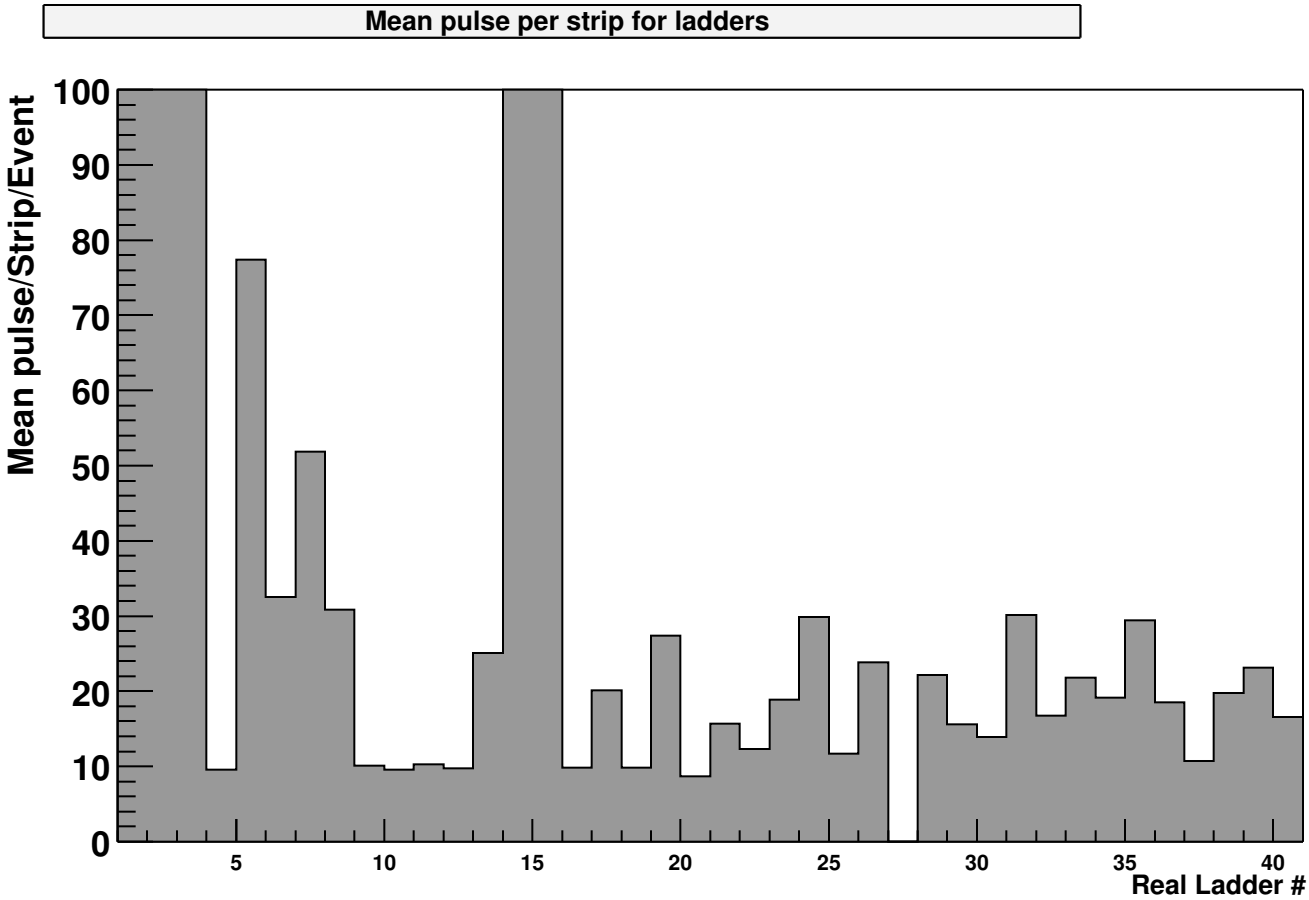

SSD Event Size Fraction (%)
Count
180
160
140
120
100
80
60
40
20
0
0
10
20
30
40
50
60
70
80
90
100
Fraction of the total size (%)

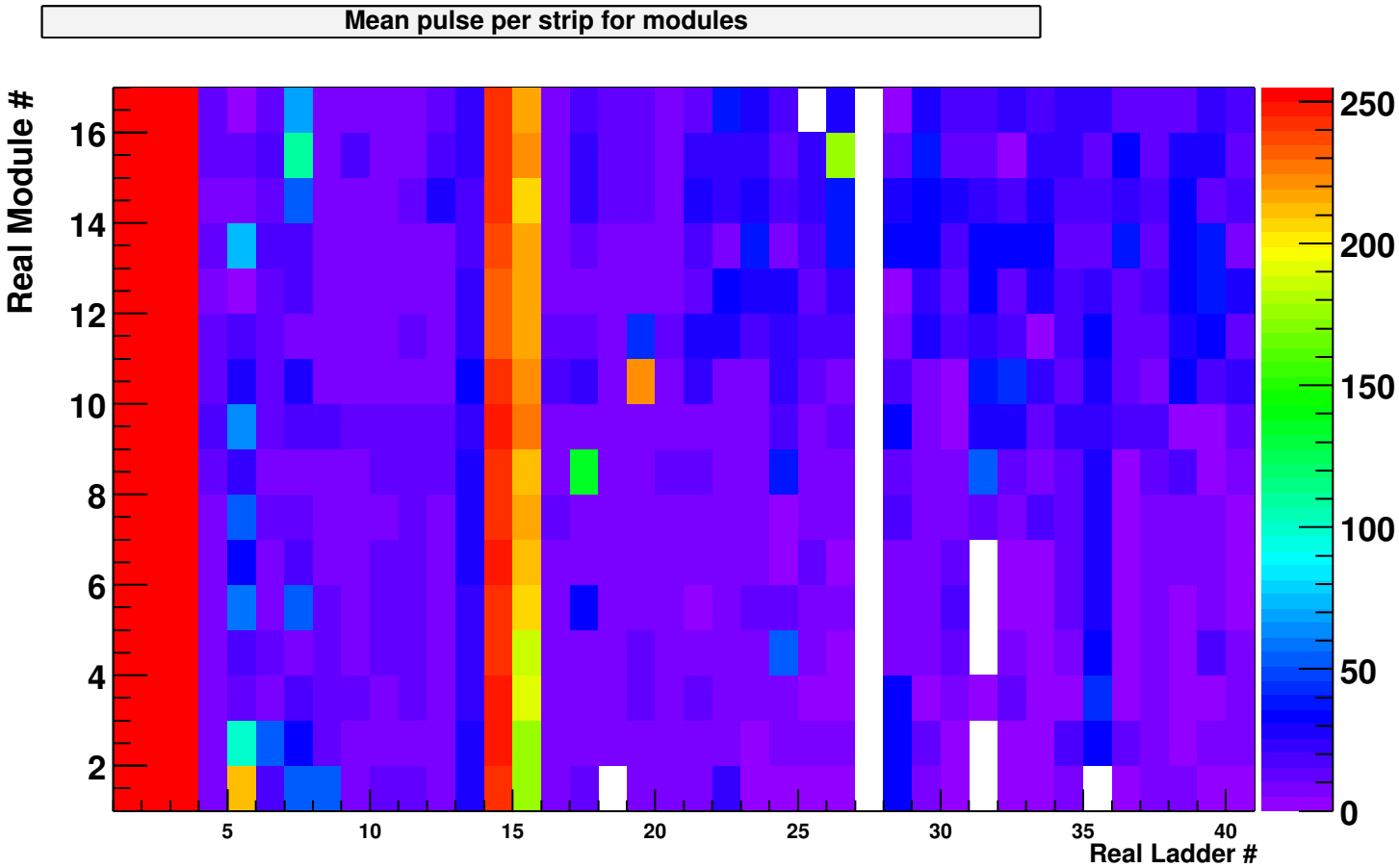

Mean Ladder occupancy (%)
Occupancy (%)/event
0
5
10
15
20
25
30
35
40
45
50
5
10
15
20
25
30
35
40
Real Ladder #

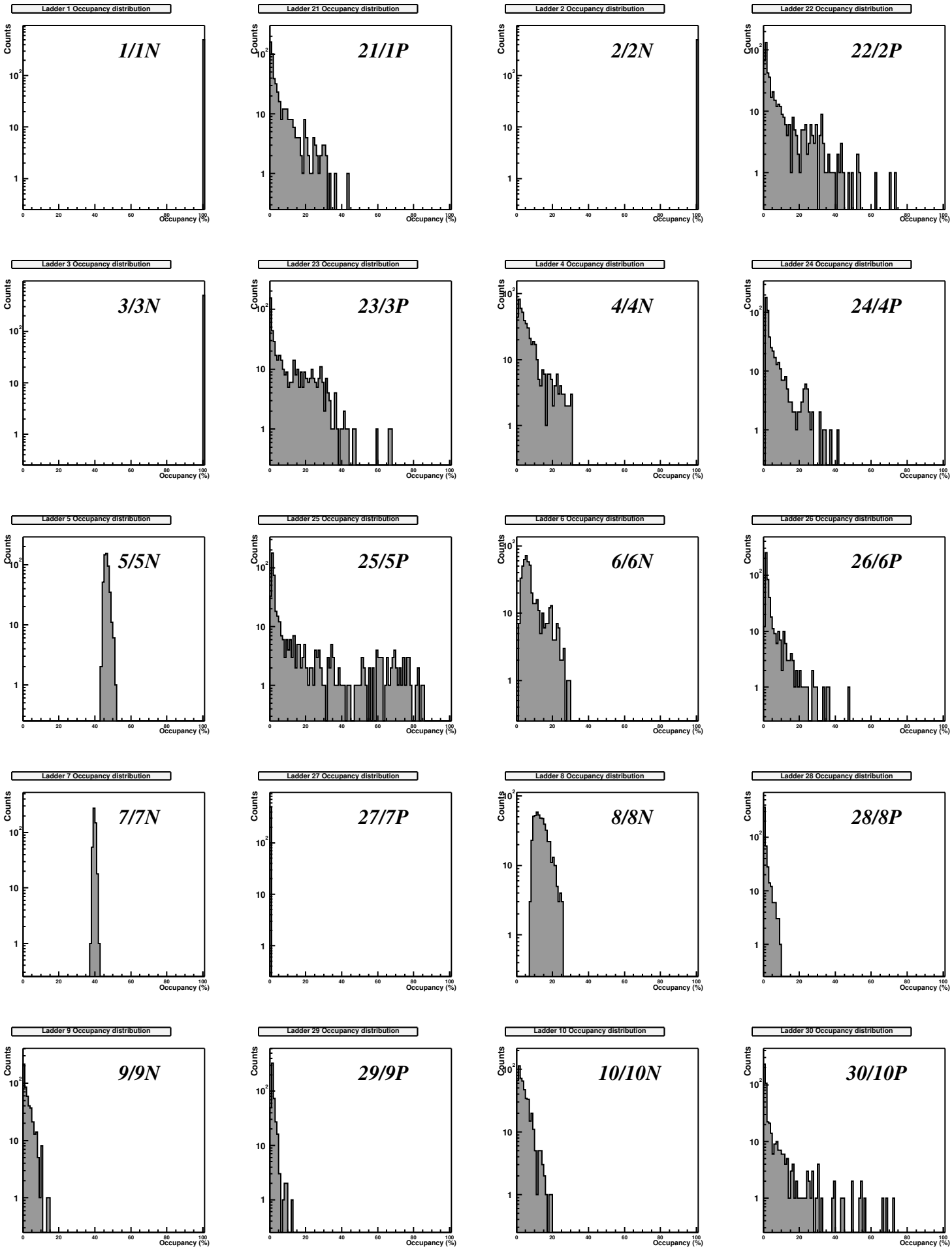

Mean Module occupancy (%)
Real Module #
2
4
6
8
10
12
14
16
5
10
15
20
25
30
35
40
Real Ladder #
0
5
10
15
20
25
30
35
40
45
50

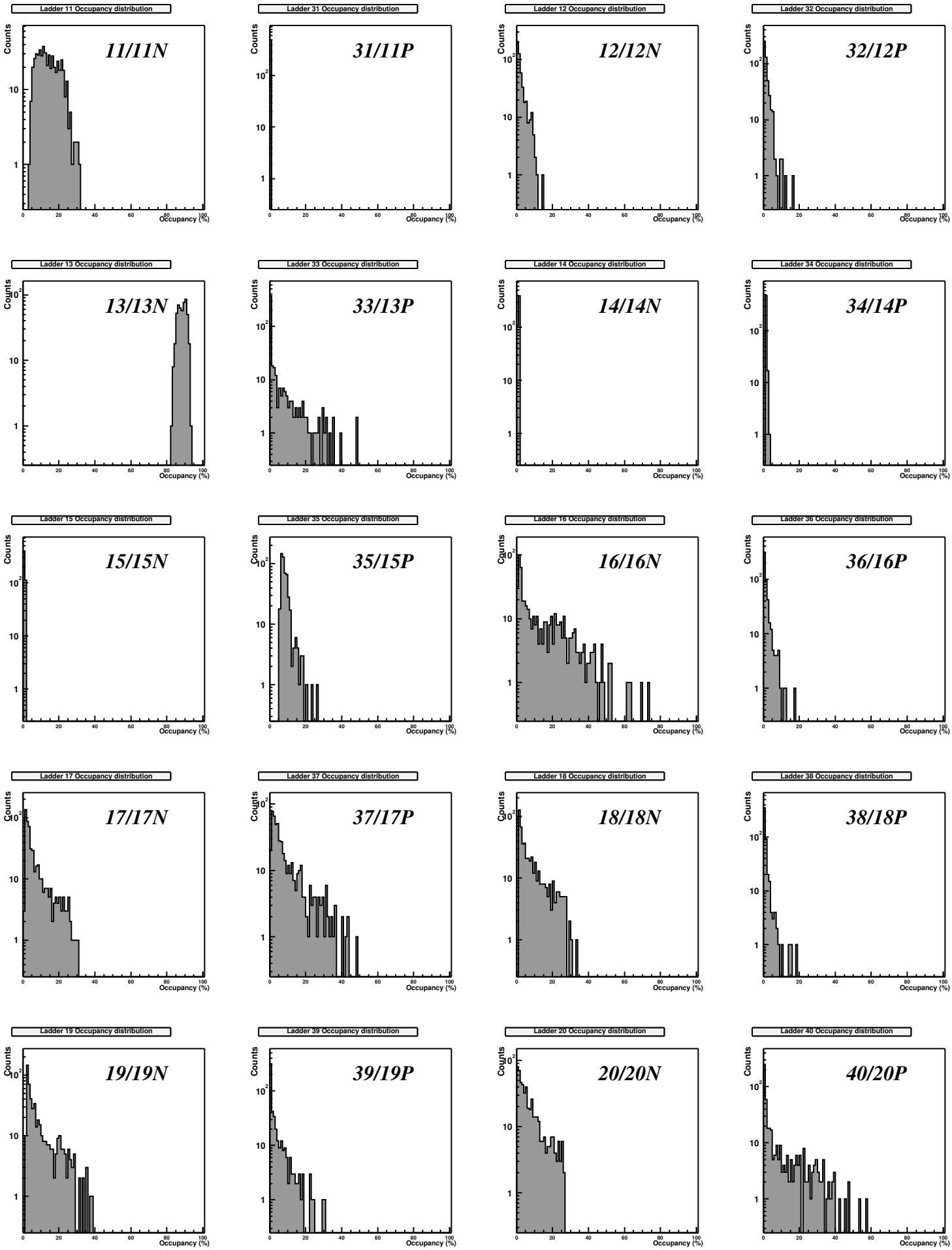

Mean Ladder occupancy for signal (%)
Signal Occupancy (%)/event
0
5
10
15
20
25
30
5
10
15
20
25
30
35
40
Real Ladder #

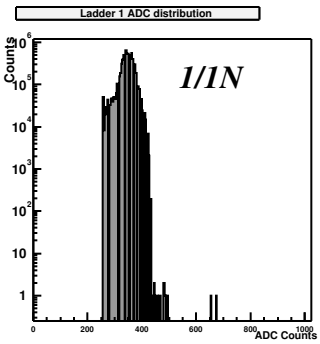

Mean Module occupancy for signal (%)
Real Module #
2
4
6
8
10
12
14
16
5
10
15
20
25
30
35
40
Real Ladder #
0
5
10
15
20
25
30

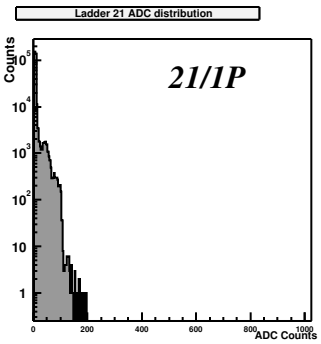

Mean pulse per strip for ladders
Mean pulse/Strip/Event
100
90
80
70
60
50
40
30
20
10
0
5
10
15
20
25
30
35
40
Real Ladder #

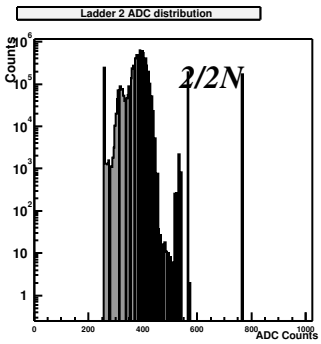

Mean pulse per strip for modules
Real Module #
16
14
12
10
8
6
4
2
5
10
15
20
25
30
35
40
Real Ladder #
250
200
150
100
50
0

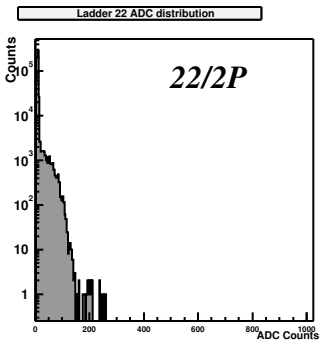

Ladder 1 Occupancy distribution
1/1N
Ladder 21 Occupancy distribution
21/1P
Ladder 2 Occupancy distribution
2/2N
Ladder 22 Occupancy distribution
22/2P
Ladder 3 Occupancy distribution
3/3N
Ladder 23 Occupancy distribution
23/3P
Ladder 4 Occupancy distribution
4/4N
Ladder 24 Occupancy distribution
24/4P
Ladder 5 Occupancy distribution
5/5N
Ladder 25 Occupancy distribution
25/5P
Ladder 6 Occupancy distribution
6/6N
Ladder 26 Occupancy distribution
26/6P
Ladder 7 Occupancy distribution
7/7N
Ladder 27 Occupancy distribution
27/7P
Ladder 8 Occupancy distribution
8/8N
Ladder 28 Occupancy distribution
28/8P
Ladder 9 Occupancy distribution
9/9N
Ladder 29 Occupancy distribution
29/9P
Ladder 10 Occupancy distribution
10/10N
Ladder 30 Occupancy distribution
30/10P
Counts
Occupancy (%)

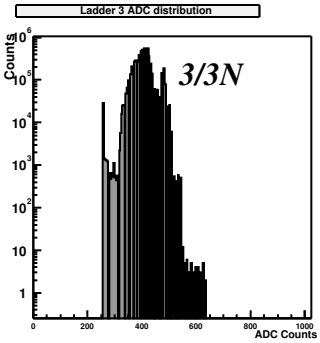

Ladder 11 Occupancy distribution
11/11N
Ladder 31 Occupancy distribution
31/11P
Ladder 12 Occupancy distribution
12/12N
Ladder 32 Occupancy distribution
32/12P
Ladder 13 Occupancy distribution
13/13N
Ladder 33 Occupancy distribution
33/13P
Ladder 14 Occupancy distribution
14/14N
Ladder 34 Occupancy distribution
34/14P
Ladder 15 Occupancy distribution
15/15N
Ladder 35 Occupancy distribution
35/15P
Ladder 16 Occupancy distribution
16/16N
Ladder 36 Occupancy distribution
36/16P
Ladder 17 Occupancy distribution
17/17N
Ladder 37 Occupancy distribution
37/17P
Ladder 18 Occupancy distribution
18/18N
Ladder 38 Occupancy distribution
38/18P
Ladder 19 Occupancy distribution
19/19N
Ladder 39 Occupancy distribution
39/19P
Ladder 20 Occupancy distribution
20/20N
Ladder 40 Occupancy distribution
40/20P
Counts
Occupancy (%)

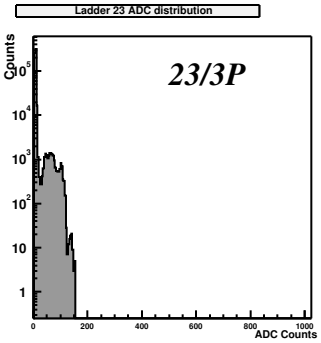

Ladder 1 ADC distribution
1/1N
Counts
ADC Counts

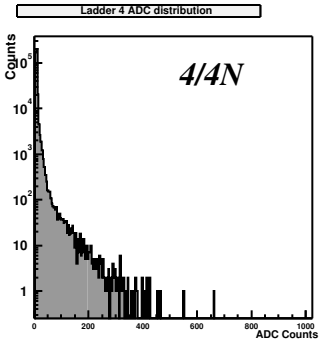

Ladder 21 ADC distribution
21/1P
Counts
ADC Counts

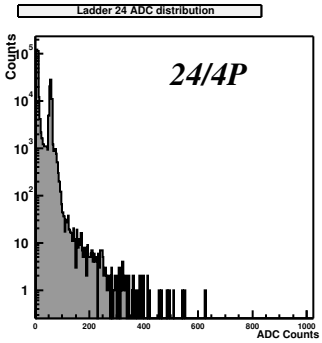

Ladder 2 ADC distribution
2/2N
Counts
ADC Counts

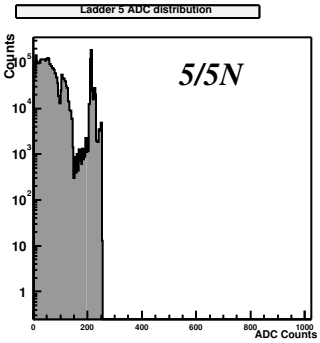

Ladder 22 ADC distribution
22/2P
Counts
ADC Counts

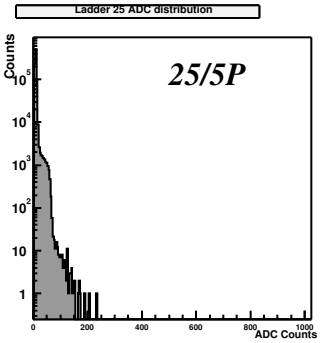

Ladder 3 ADC distribution
3/3N
Counts
ADC Counts

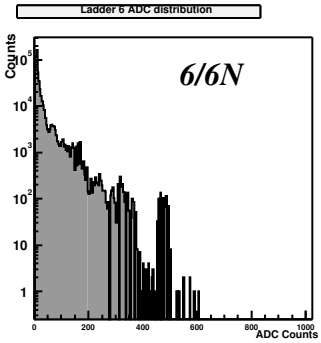

Ladder 23 ADC distribution
23/3P
Counts
ADC Counts

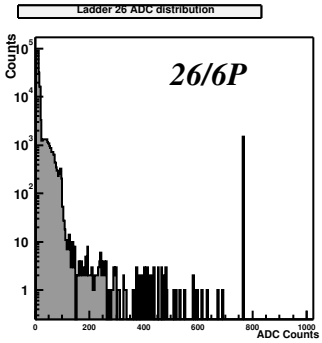

Ladder 4 ADC distribution
4/4N
Counts
ADC Counts

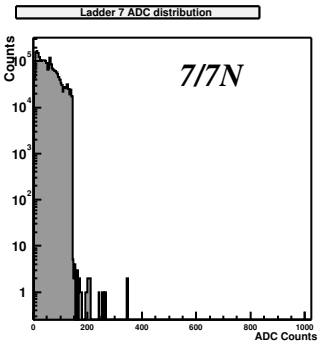

Ladder 24 ADC distribution
24/4P
Counts
ADC Counts

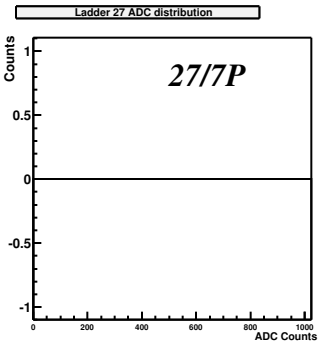

Ladder 5 ADC distribution
5/5N
Counts
ADC Counts

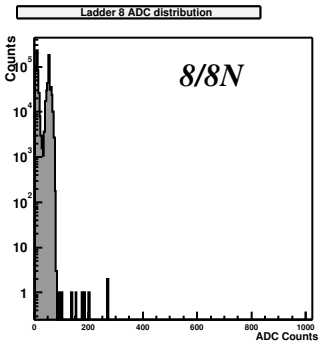

Ladder 25 ADC distribution
25/5P
Counts
ADC Counts

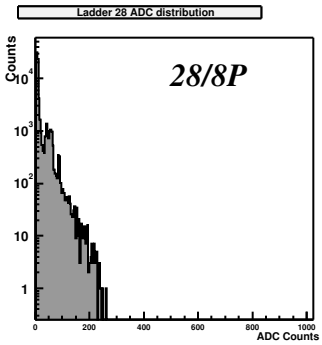

Ladder 6 ADC distribution
6/6N
Counts
ADC Counts

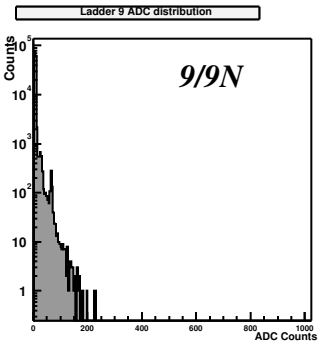

Ladder 26 ADC distribution
26/6P
Counts
ADC Counts

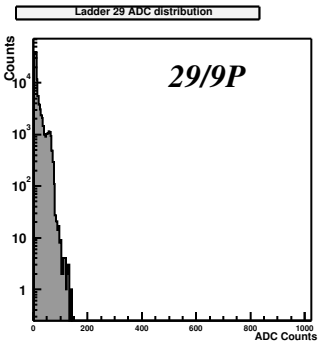

Ladder 7 ADC distribution
7/7N
Counts
ADC Counts

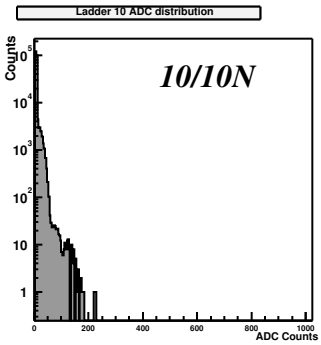

Ladder 27 ADC distribution
27/7P
Counts
ADC Counts

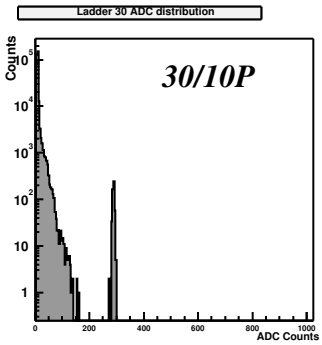

Ladder 8 ADC distribution
8/8N
Counts
ADC Counts

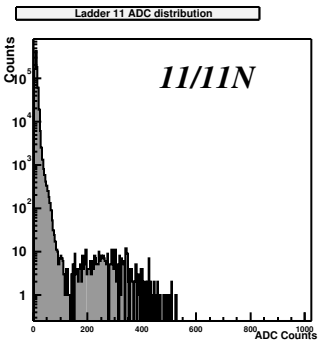

Ladder 28 ADC distribution
28/8P
Counts
ADC Counts

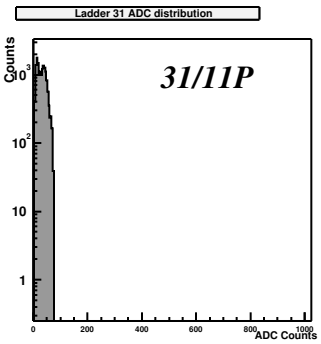

Ladder 9 ADC distribution
9/9N
Counts
ADC Counts

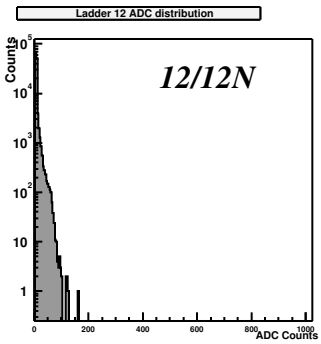

Ladder 29 ADC distribution
29/9P
Counts
ADC Counts

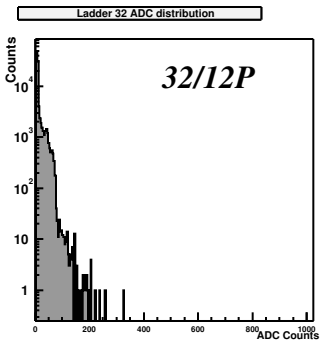

Ladder 10 ADC distribution
10/10N
Counts
ADC Counts

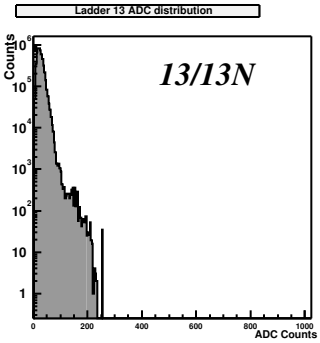

Ladder 30 ADC distribution
30/10P
Counts
ADC Counts

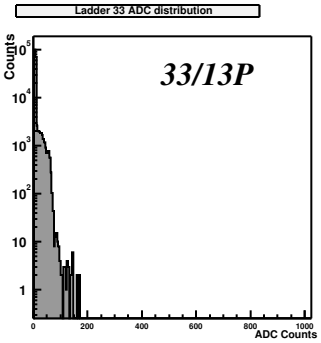

Ladder 11 ADC distribution
11/11N
Counts
ADC Counts

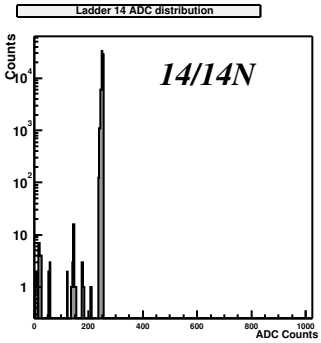

Ladder 31 ADC distribution
31/11P
Counts
ADC Counts

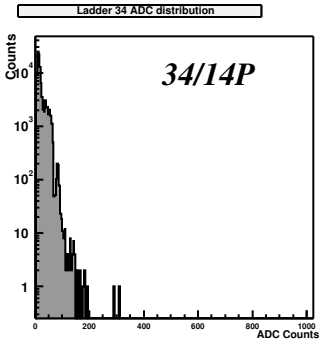

Ladder 12 ADC distribution
12/12N
Counts
ADC Counts

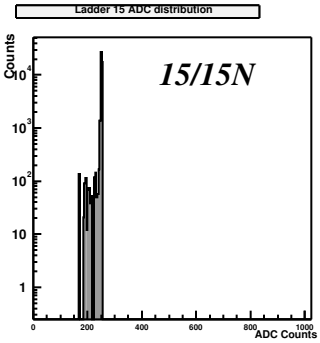

Ladder 32 ADC distribution
32/12P
Counts
ADC Counts

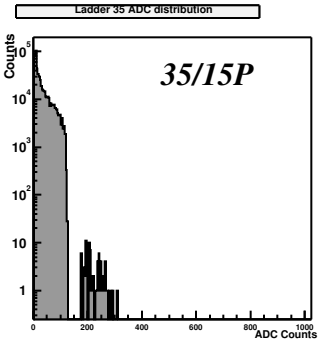

Ladder 13 ADC distribution
13/13N
Counts
ADC Counts

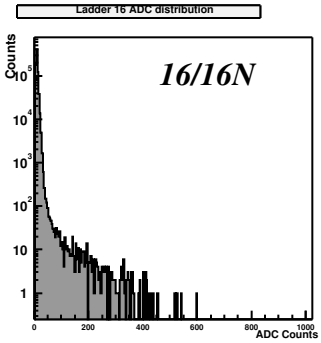

Ladder 33 ADC distribution
33/13P
Counts
ADC Counts

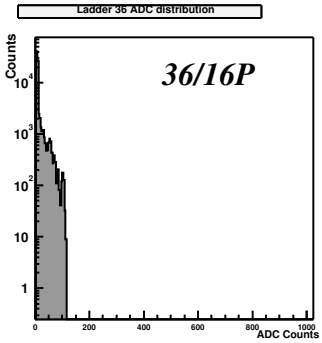

Ladder 14 ADC distribution
14/14N
Counts
ADC Counts

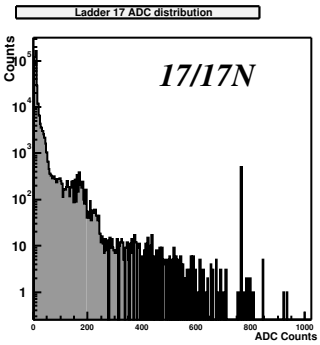

Ladder 34 ADC distribution
34/14P
Counts
ADC Counts

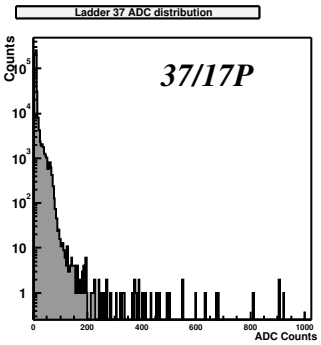

Ladder 15 ADC distribution
15/15N
Counts
ADC Counts

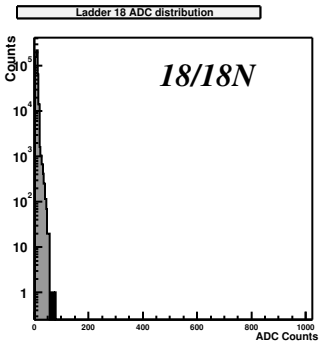

Ladder 35 ADC distribution
35/15P
Counts
ADC Counts

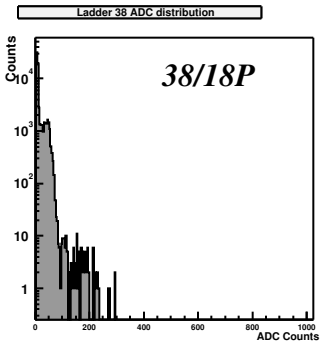

Ladder 16 ADC distribution
16/16N
Counts
ADC Counts

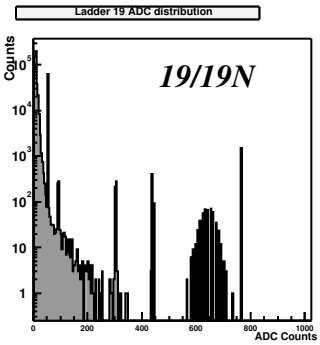

Ladder 36 ADC distribution
36/16P
Counts
ADC Counts

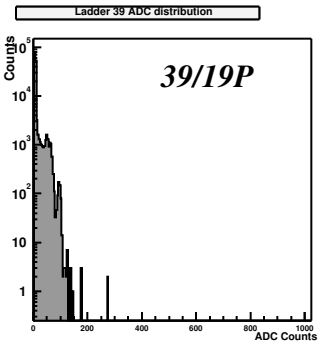

Ladder 17 ADC distribution
17/17N
Counts
ADC Counts

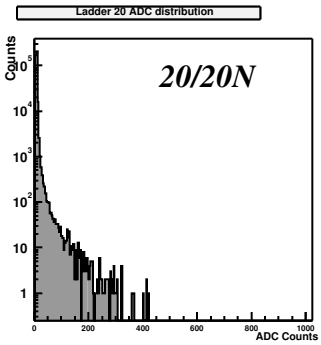

Ladder 37 ADC distribution
37/17P
Counts
ADC Counts

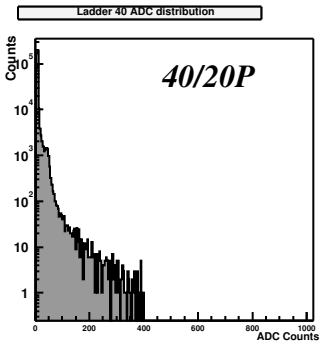

Ladder 18 ADC distribution
18/18N
Counts
ADC Counts

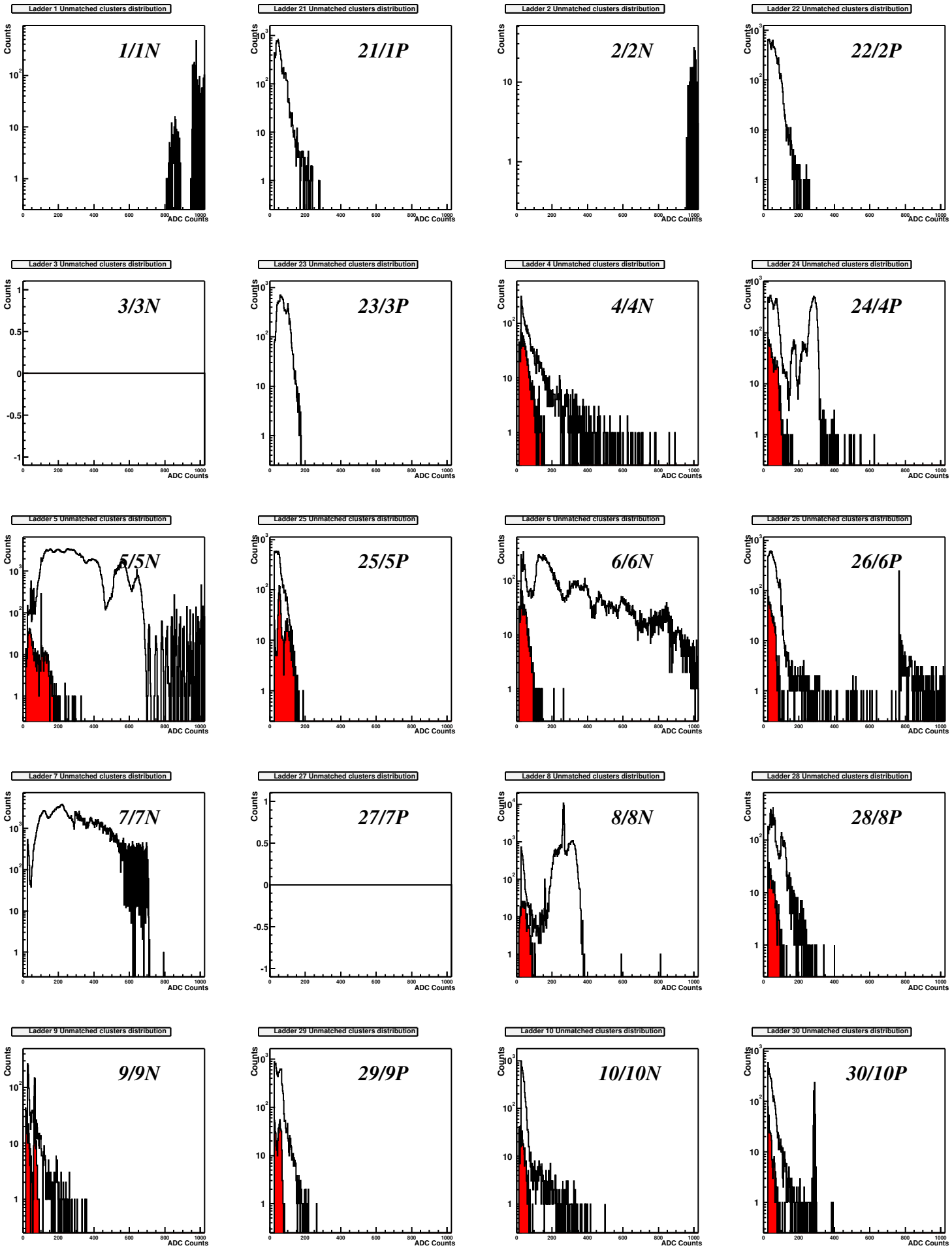

Ladder 38 ADC distribution
38/18P
Counts
ADC Counts

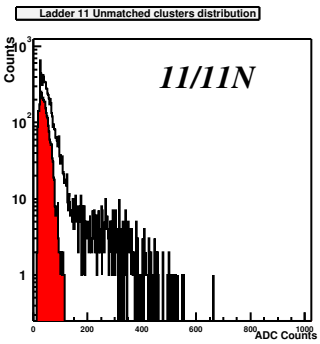

Ladder 19 ADC distribution
19/19N
Counts
ADC Counts

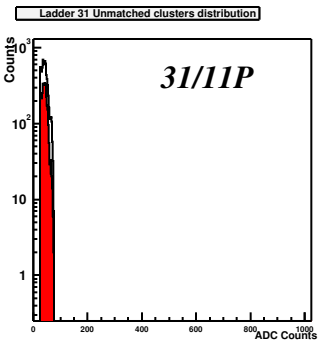

Ladder 39 ADC distribution
39/19P
Counts
ADC Counts

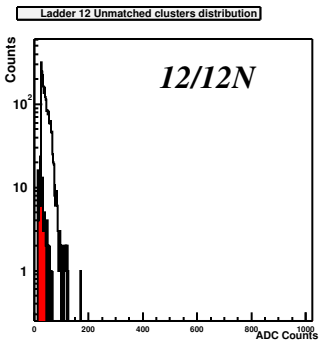

Ladder 20 ADC distribution
20/20N
Counts
ADC Counts

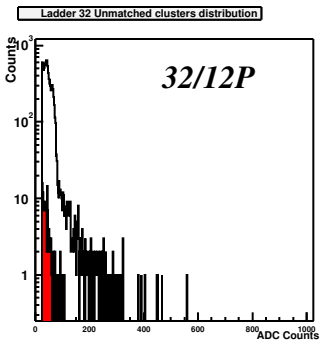

Ladder 40 ADC distribution
40/20P
Counts
ADC Counts

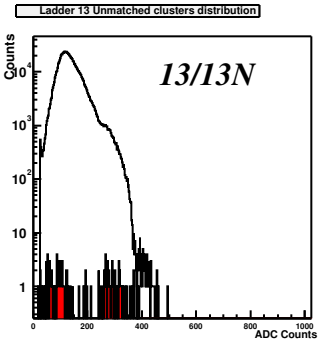

Ladder 1 Unmatched clusters distribution
1/1N
Ladder 21 Unmatched clusters distribution
21/1P
Ladder 2 Unmatched clusters distribution
2/2N
Ladder 22 Unmatched clusters distribution
22/2P
Ladder 3 Unmatched clusters distribution
3/3N
Ladder 23 Unmatched clusters distribution
23/3P
Ladder 4 Unmatched clusters distribution
4/4N
Ladder 24 Unmatched clusters distribution
24/4P
Ladder 5 Unmatched clusters distribution
5/5N
Ladder 25 Unmatched clusters distribution
25/5P
Ladder 6 Unmatched clusters distribution
6/6N
Ladder 26 Unmatched clusters distribution
26/6P
Ladder 7 Unmatched clusters distribution
7/7N
Ladder 27 Unmatched clusters distribution
27/7P
Ladder 8 Unmatched clusters distribution
8/8N
Ladder 28 Unmatched clusters distribution
28/8P
Ladder 9 Unmatched clusters distribution
9/9N
Ladder 29 Unmatched clusters distribution
29/9P
Ladder 10 Unmatched clusters distribution
10/10N
Ladder 30 Unmatched clusters distribution
30/10P
Counts
ADC Counts

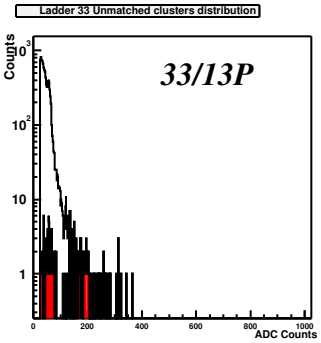

Ladder 11 Unmatched clusters distribution
11/11N
Counts
ADC Counts

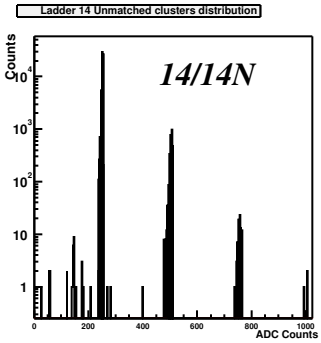

Ladder 31 Unmatched clusters distribution
31/11P
Counts
ADC Counts

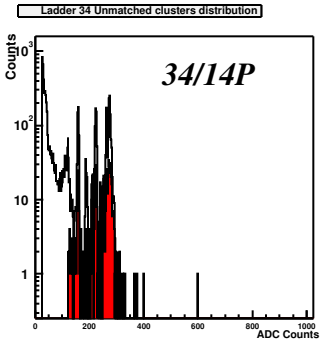

Ladder 12 Unmatched clusters distribution
12/12N
Counts
ADC Counts

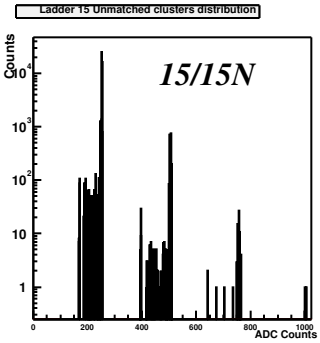

Ladder 32 Unmatched clusters distribution
32/12P
Counts
ADC Counts

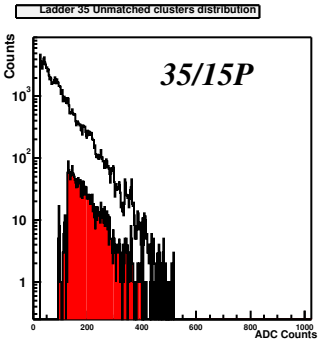

Ladder 13 Unmatched clusters distribution
13/13N
Counts
ADC Counts

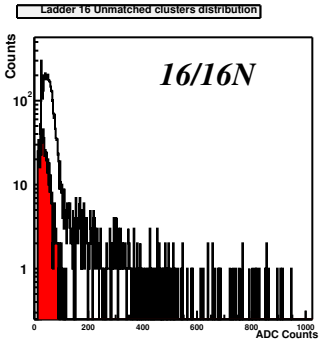

Ladder 33 Unmatched clusters distribution
33/13P
Counts
ADC Counts

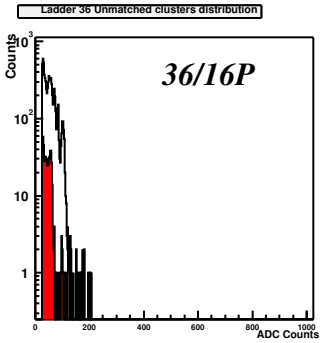

Ladder 14 Unmatched clusters distribution
14/14N
Counts
ADC Counts

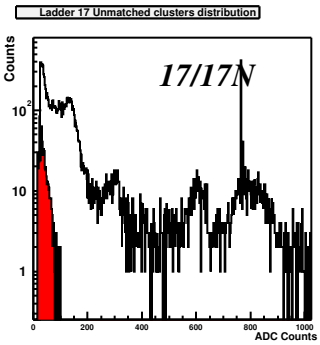

Ladder 34 Unmatched clusters distribution
34/14P
Counts
ADC Counts

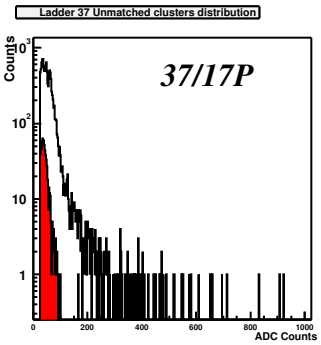

Ladder 15 Unmatched clusters distribution
15/15N
Counts
ADC Counts

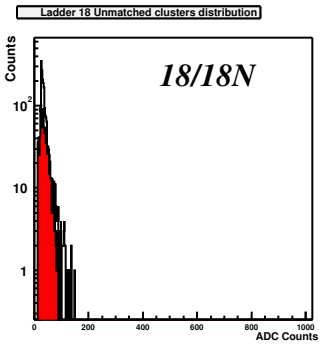

Ladder 35 Unmatched clusters distribution
35/15P
Counts
ADC Counts

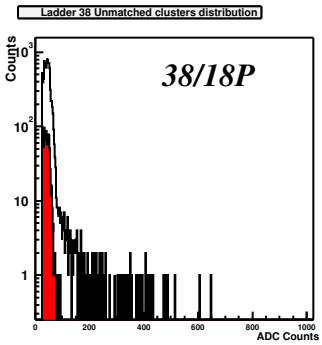

Ladder 16 Unmatched clusters distribution
16/16N
Counts
ADC Counts

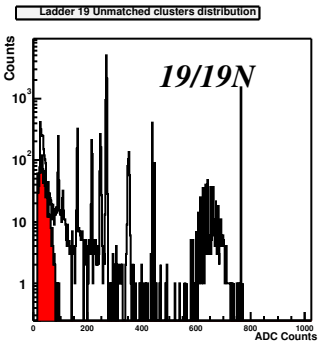

Ladder 36 Unmatched clusters distribution
36/16P
Counts
ADC Counts

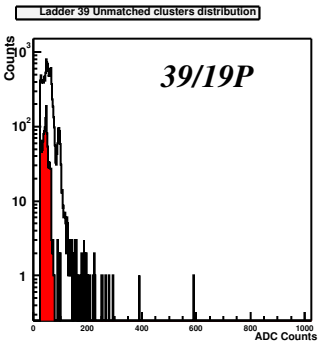

Ladder 17 Unmatched clusters distribution
17/17N
Counts
ADC Counts

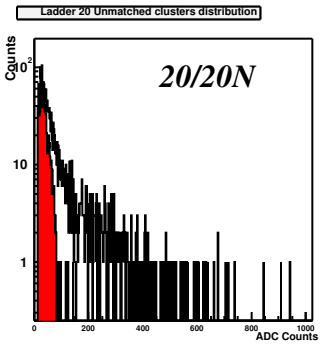

Ladder 37 Unmatched clusters distribution
37/17P
Counts
ADC Counts

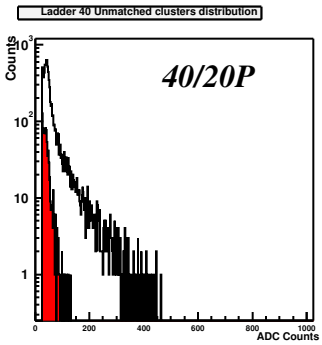

Ladder 18 Unmatched clusters distribution
18/18N
Counts
ADC Counts

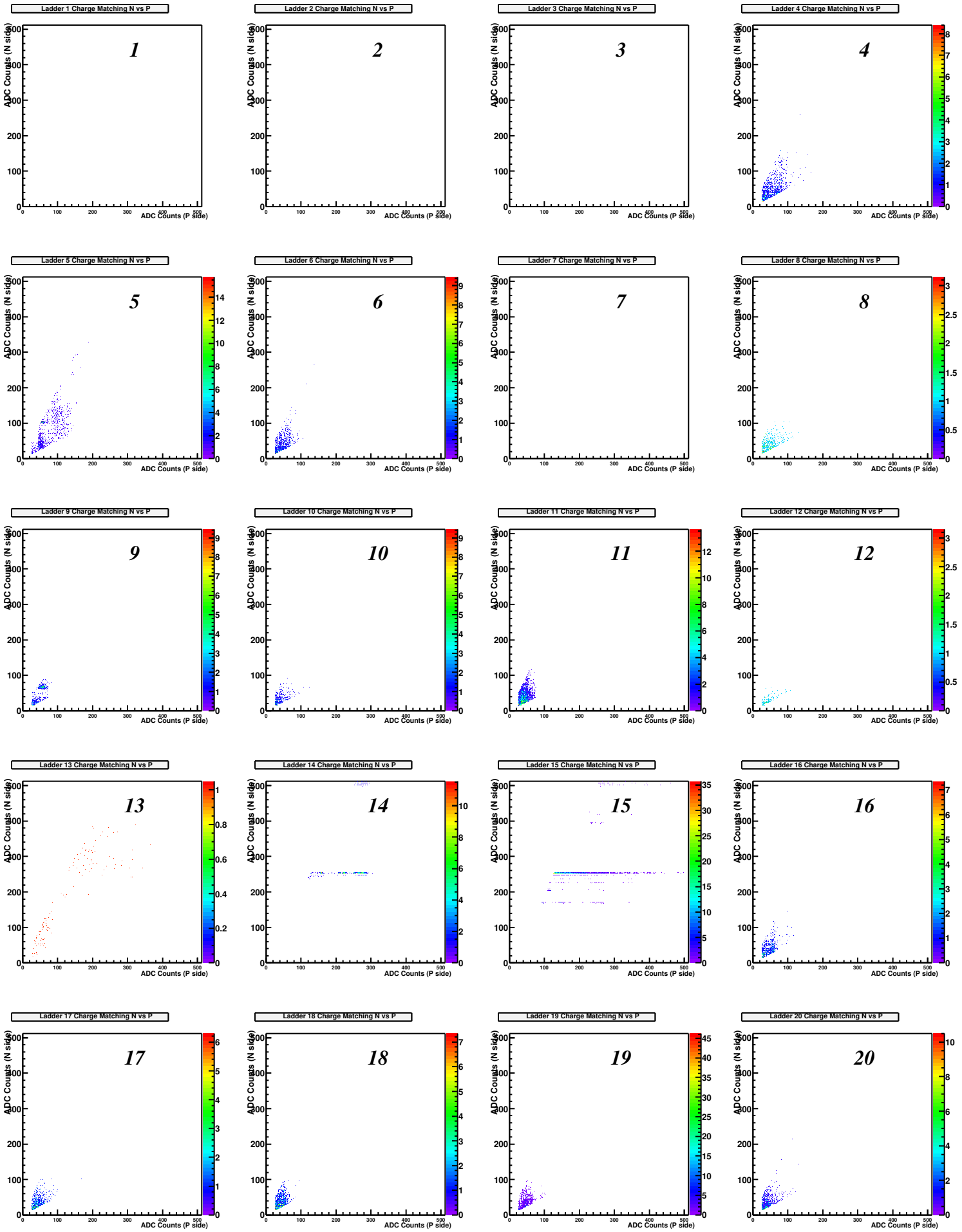

Ladder 38 Unmatched clusters distribution
38/18P
Counts
ADC Counts

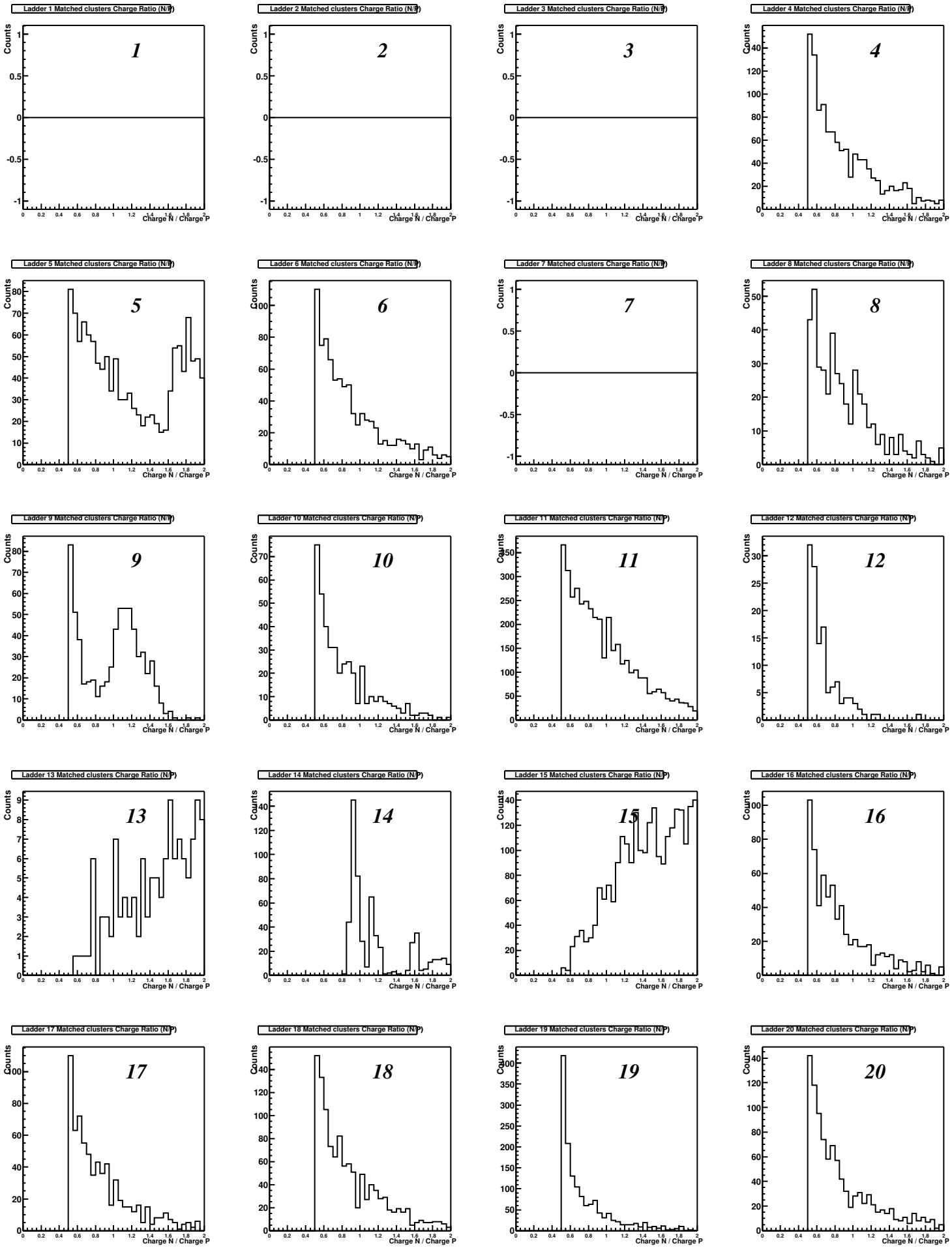

Ladder 19 Unmatched clusters distribution
19/19N
Counts
ADC Counts

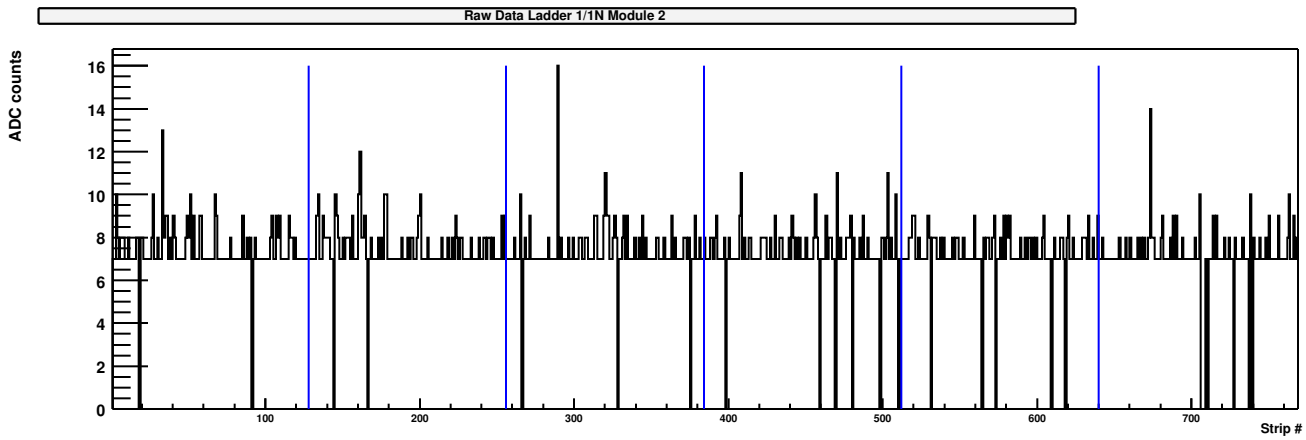

Ladder 39 Unmatched clusters distribution
39/19P
Counts
ADC Counts

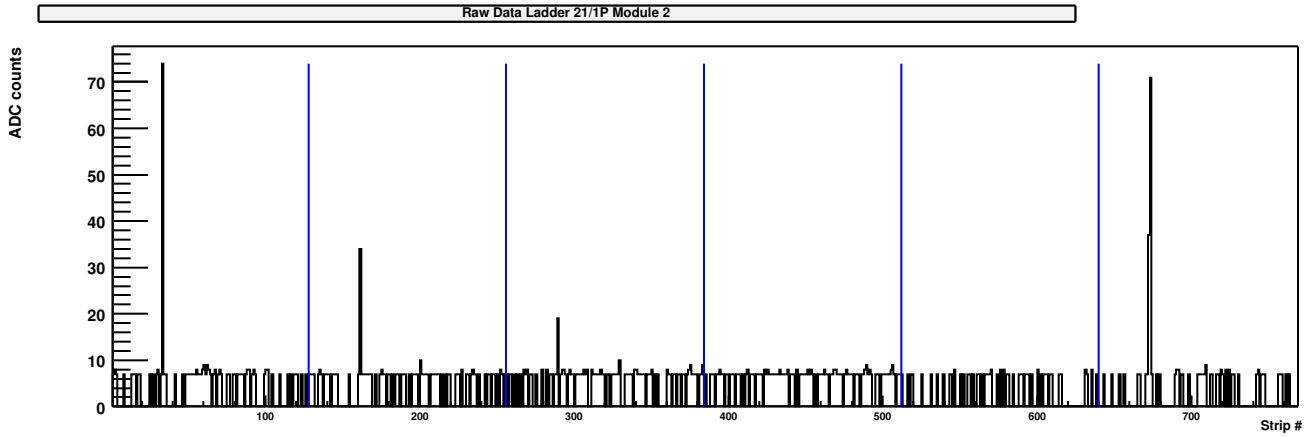

Ladder 20 Unmatched clusters distribution
20/20N
Counts
ADC Counts

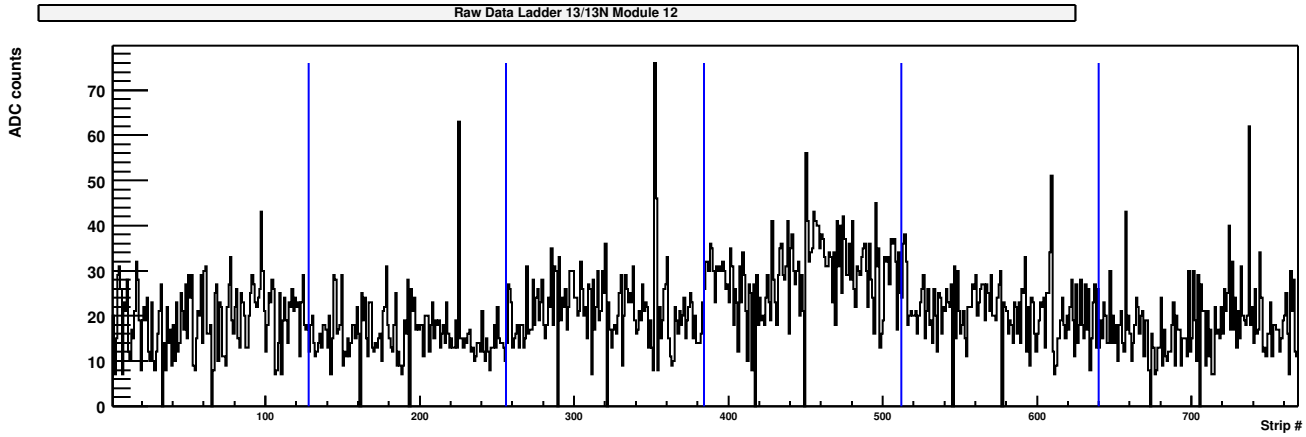

Ladder 40 Unmatched clusters distribution
40/20P
Counts
ADC Counts

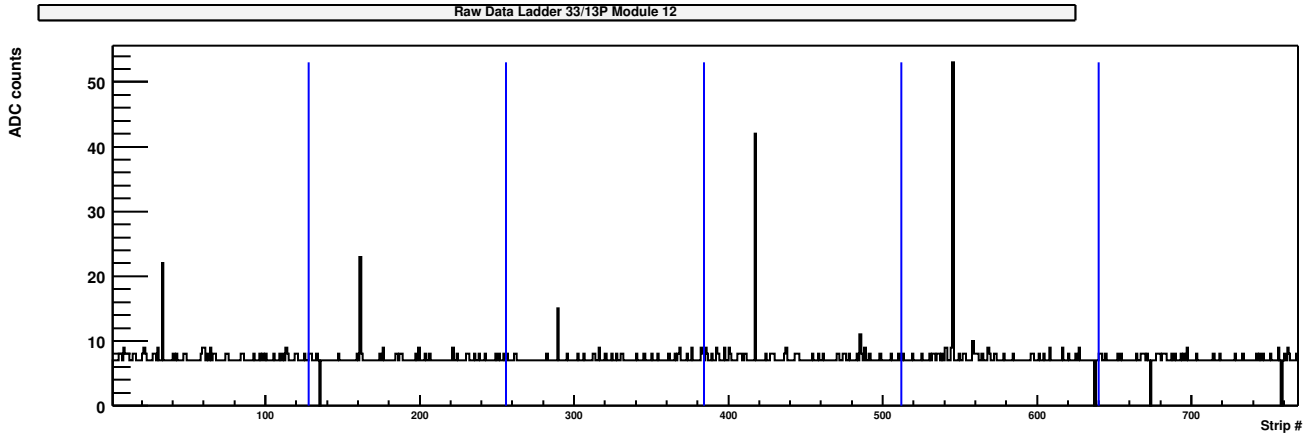

Ladder 1 Charge Matching N vs P
1
Ladder 2 Charge Matching N vs P
2
Ladder 3 Charge Matching N vs P
3
Ladder 4 Charge Matching N vs P
4
Ladder 5 Charge Matching N vs P
5
Ladder 6 Charge Matching N vs P
6
Ladder 7 Charge Matching N vs P
7
Ladder 8 Charge Matching N vs P
8
Ladder 9 Charge Matching N vs P
9
Ladder 10 Charge Matching N vs P
10
Ladder 11 Charge Matching N vs P
11
Ladder 12 Charge Matching N vs P
12
Ladder 13 Charge Matching N vs P
13
Ladder 14 Charge Matching N vs P
14
Ladder 15 Charge Matching N vs P
15
Ladder 16 Charge Matching N vs P
16
Ladder 17 Charge Matching N vs P
17
Ladder 18 Charge Matching N vs P
18
Ladder 19 Charge Matching N vs P
19
Ladder 20 Charge Matching N vs P
20
ADC Counts (N side)
ADC Counts (P side)

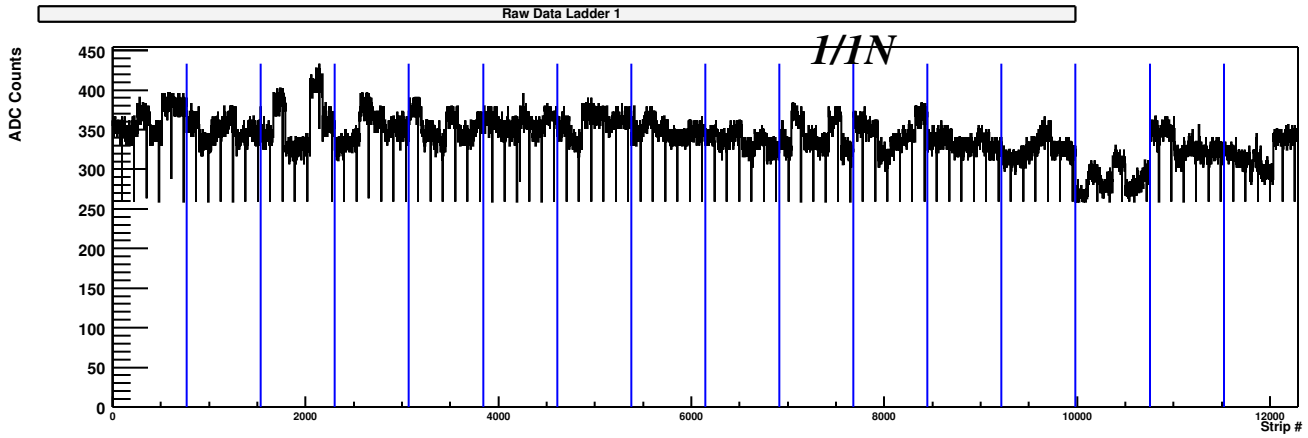

Ladder 1 Matched clusters Charge Ratio (N/P)
1
Ladder 2 Matched clusters Charge Ratio (N/P)
2
Ladder 3 Matched clusters Charge Ratio (N/P)
3
Ladder 4 Matched clusters Charge Ratio (N/P)
4
Ladder 5 Matched clusters Charge Ratio (N/P)
5
Ladder 6 Matched clusters Charge Ratio (N/P)
6
Ladder 7 Matched clusters Charge Ratio (N/P)
7
Ladder 8 Matched clusters Charge Ratio (N/P)
8
Ladder 9 Matched clusters Charge Ratio (N/P)
9
Ladder 10 Matched clusters Charge Ratio (N/P)
10
Ladder 11 Matched clusters Charge Ratio (N/P)
11
Ladder 12 Matched clusters Charge Ratio (N/P)
12
Ladder 13 Matched clusters Charge Ratio (N/P)
13
Ladder 14 Matched clusters Charge Ratio (N/P)
14
Ladder 15 Matched clusters Charge Ratio (N/P)
15
Ladder 16 Matched clusters Charge Ratio (N/P)
16
Ladder 17 Matched clusters Charge Ratio (N/P)
17
Ladder 18 Matched clusters Charge Ratio (N/P)
18
Ladder 19 Matched clusters Charge Ratio (N/P)
19
Ladder 20 Matched clusters Charge Ratio (N/P)
20
Counts
Charge N / Charge P

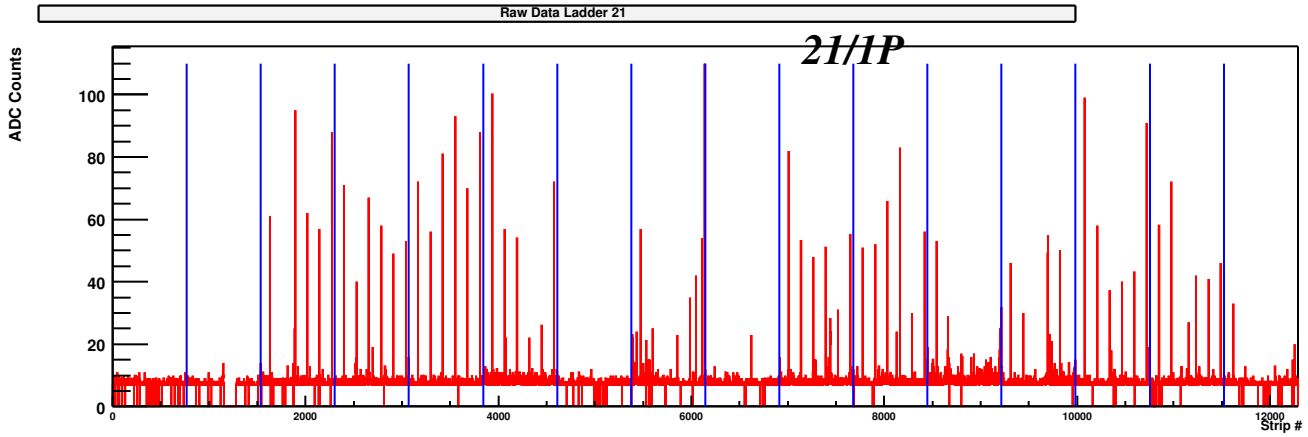

Raw Data Ladder 1/1N Module 2
ADC counts
Strip #

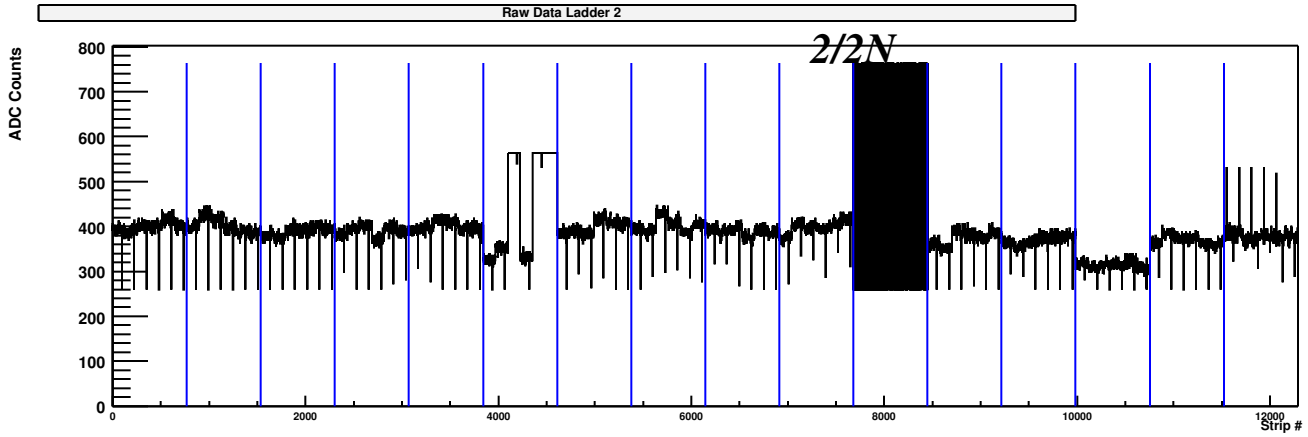

Raw Data Ladder 21/1P Module 2
ADC counts
Strip #

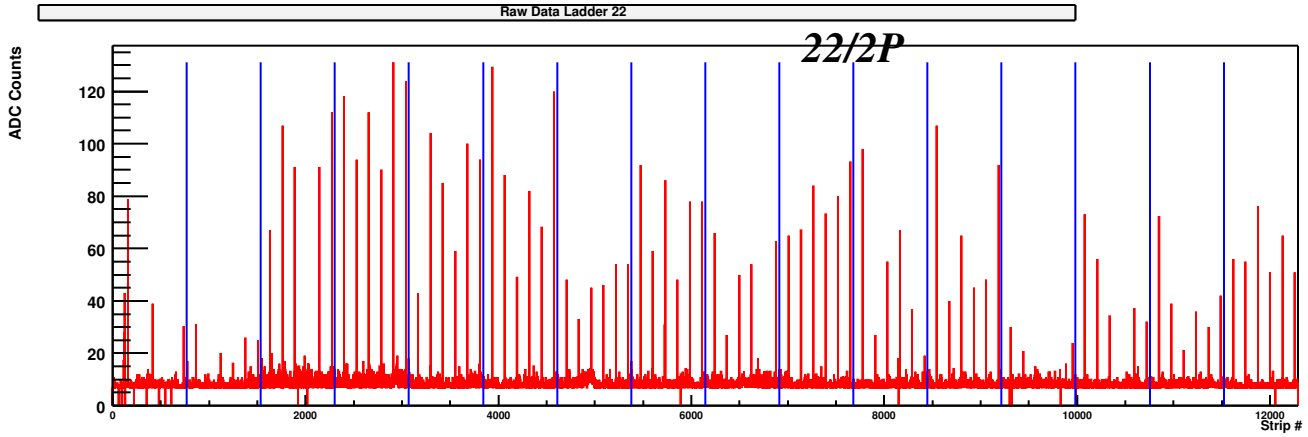

Raw Data Ladder 13/13N Module 12
ADC counts
Strip #

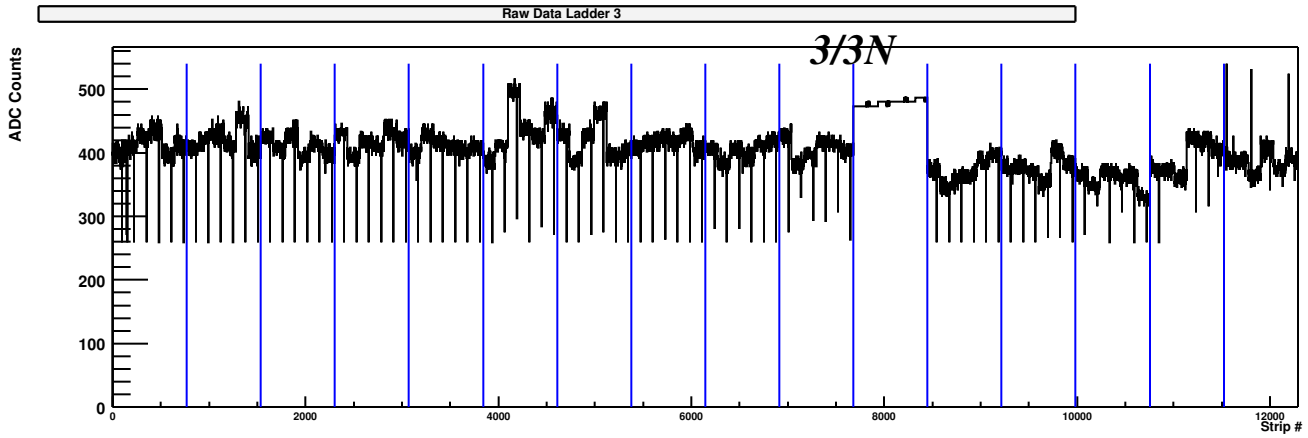

Raw Data Ladder 33/13P Module 12
ADC counts
Strip #

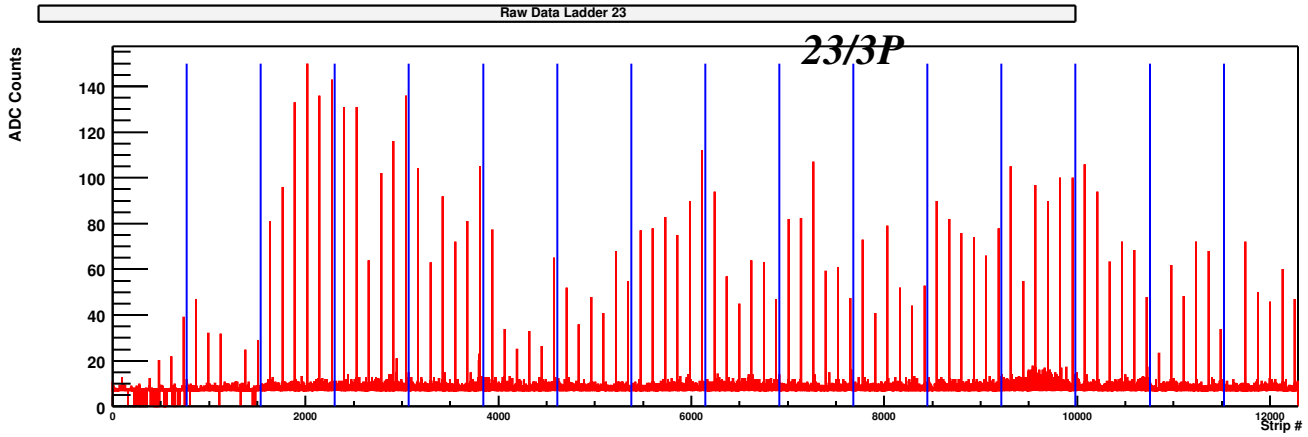

Raw Data Ladder 1
1/1N
ADC Counts
Strip #

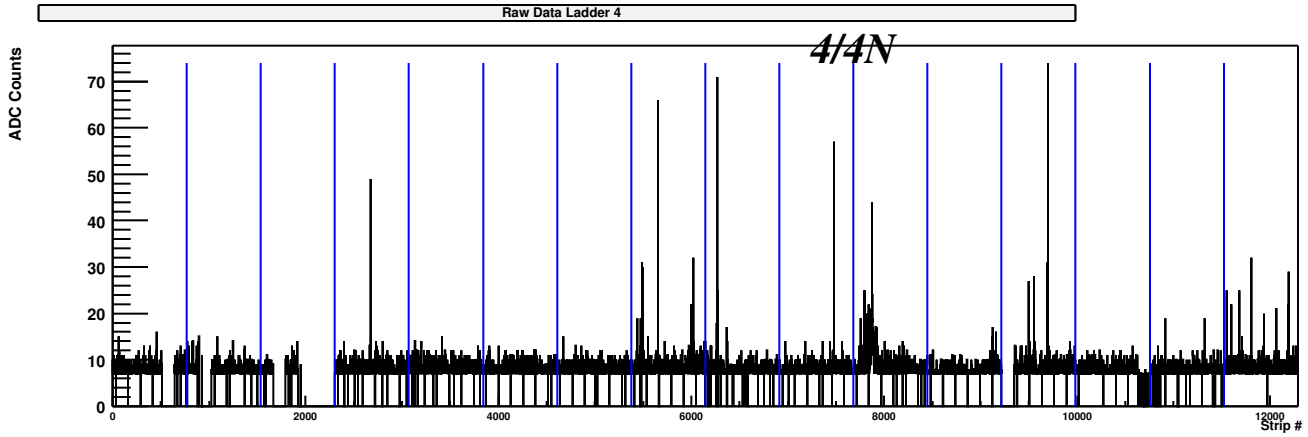

Raw Data Ladder 21
21/1P
ADC Counts
Strip #

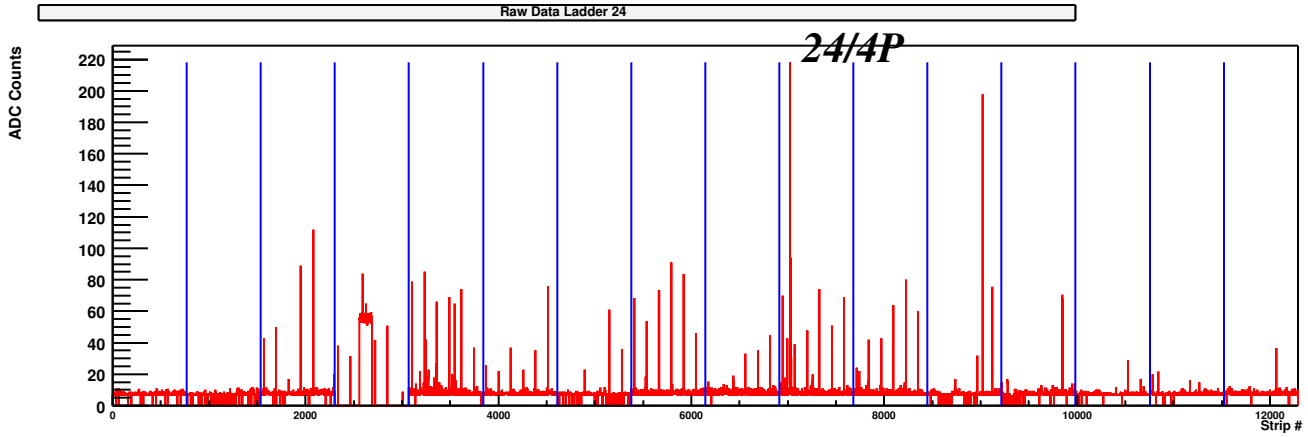

Raw Data Ladder 2
2/2N
ADC Counts
Strip #

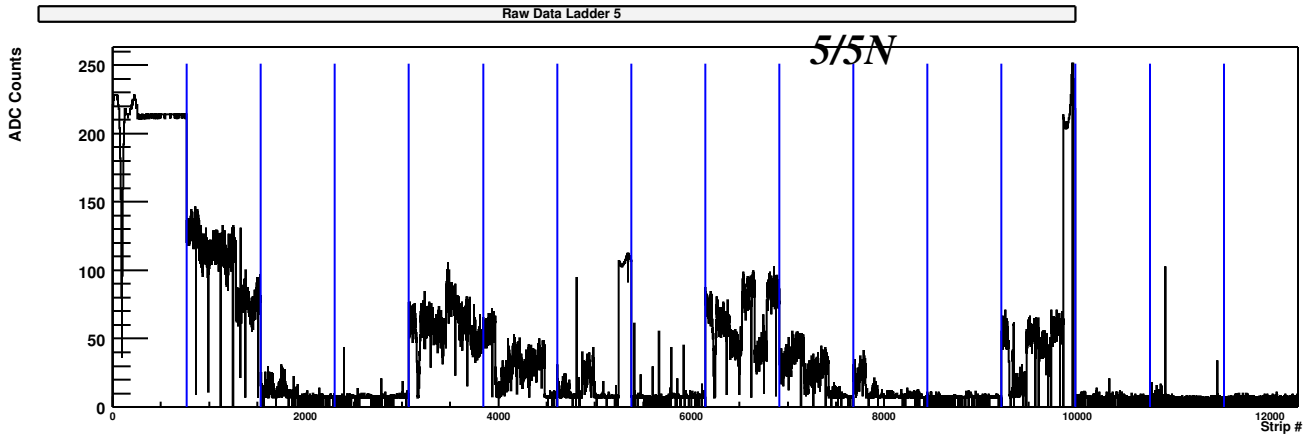

Raw Data Ladder 22
22/2P
ADC Counts
Strip #

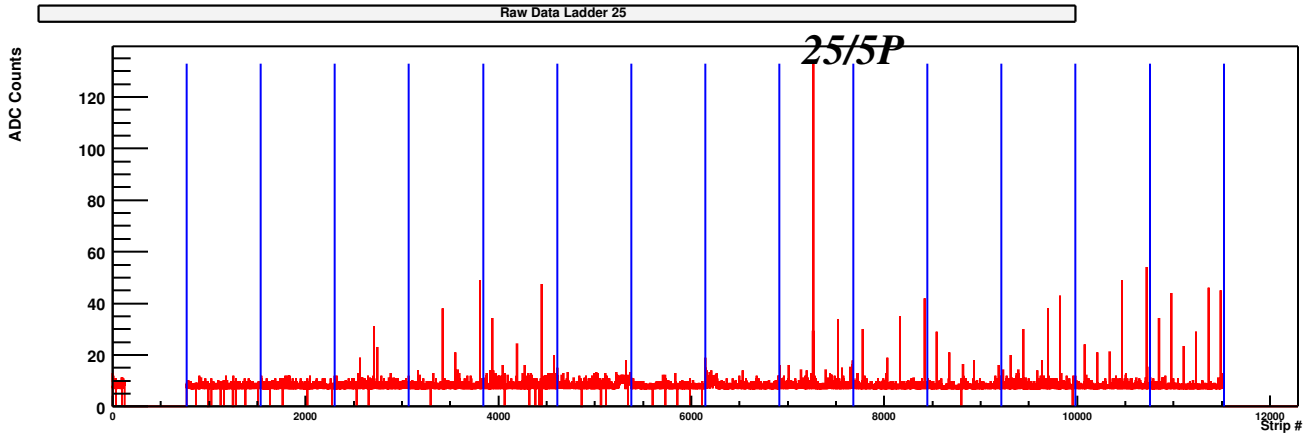

Raw Data Ladder 3
3/3N
ADC Counts
Strip #

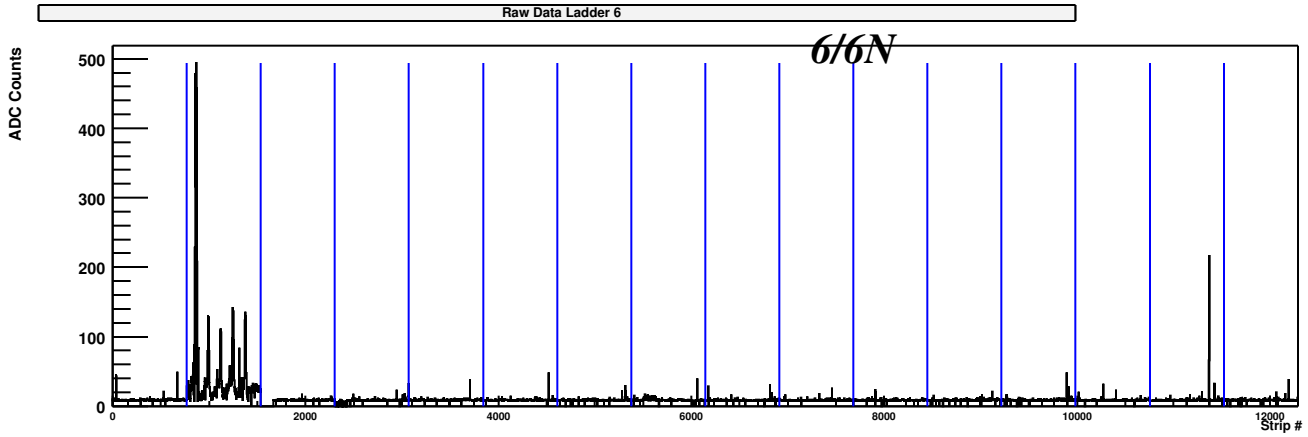

Raw Data Ladder 23
23/3P
ADC Counts
Strip #

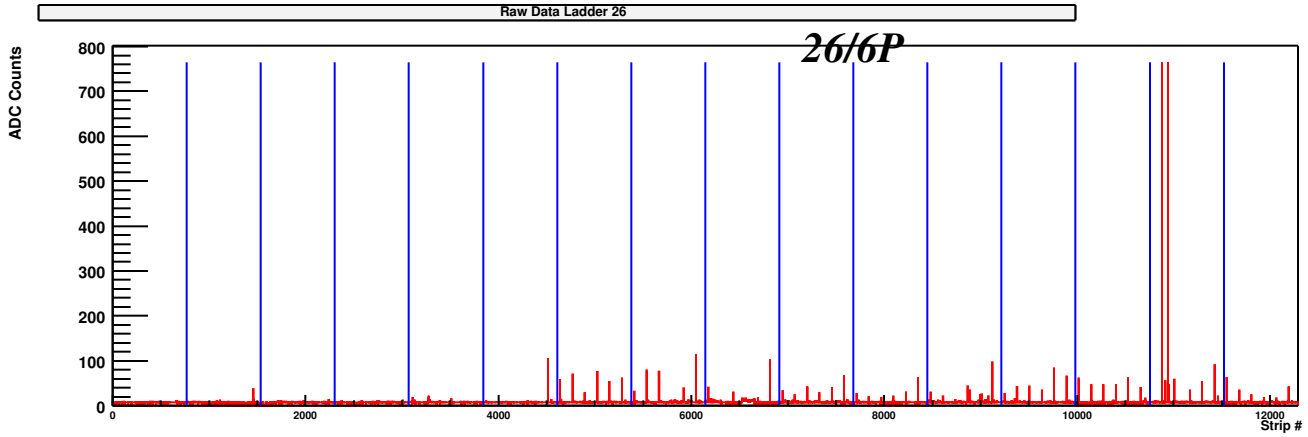

Raw Data Ladder 4
4/4N
ADC Counts
Strip #

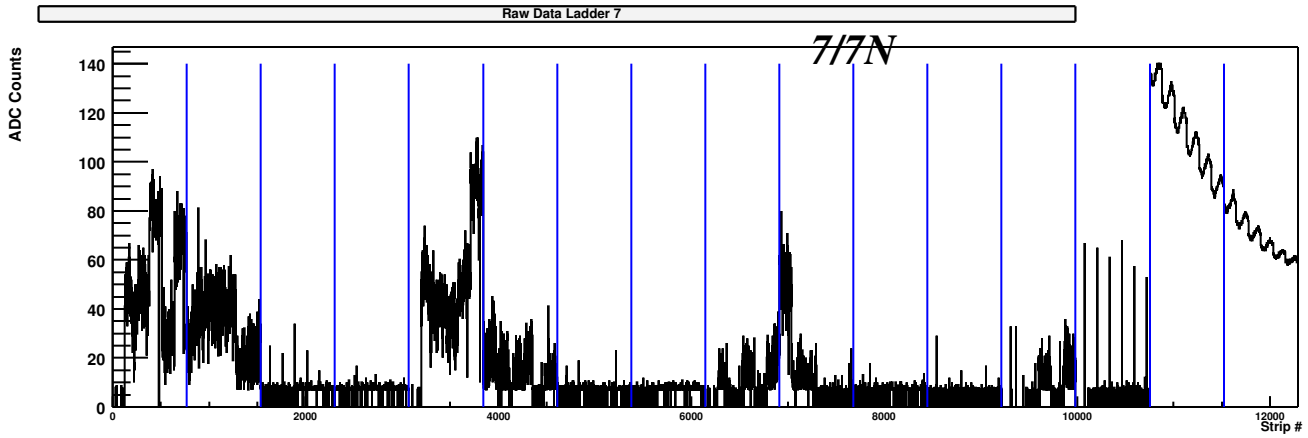

Raw Data Ladder 24
24/4P
ADC Counts
Strip #

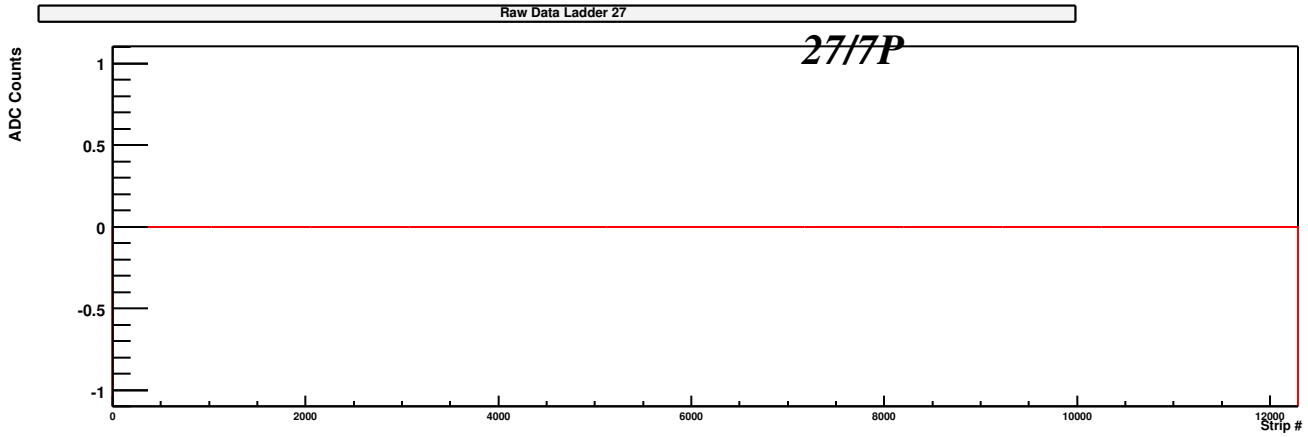

Raw Data Ladder 5
5/5N
ADC Counts
Strip #

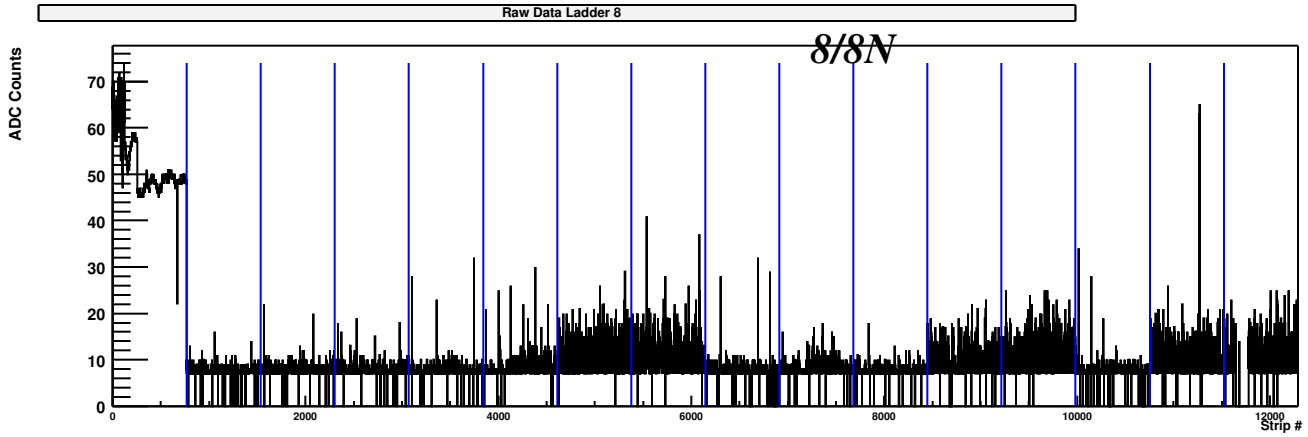

Raw Data Ladder 25
25/5P
ADC Counts
Strip #

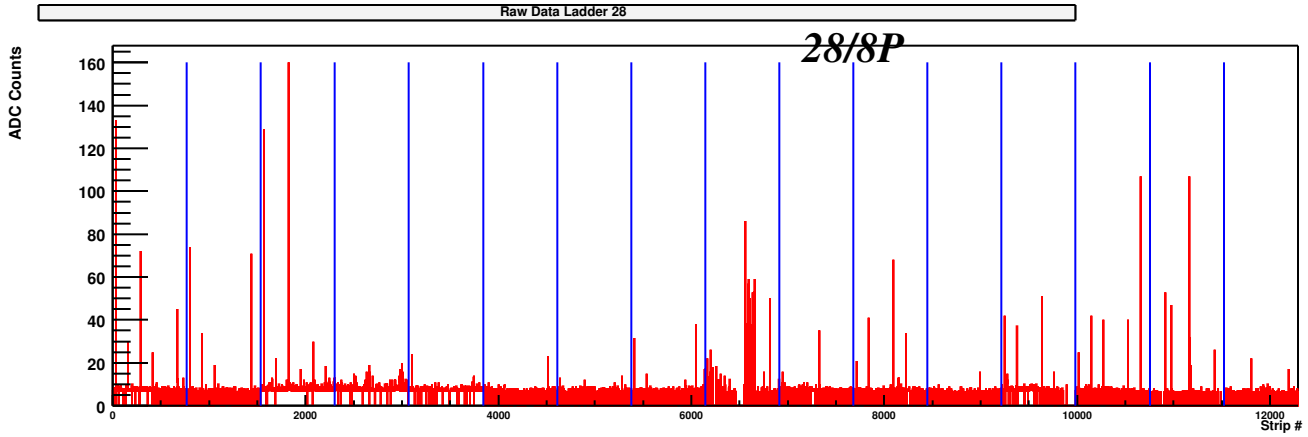

Raw Data Ladder 6
6/6N
ADC Counts
Strip #

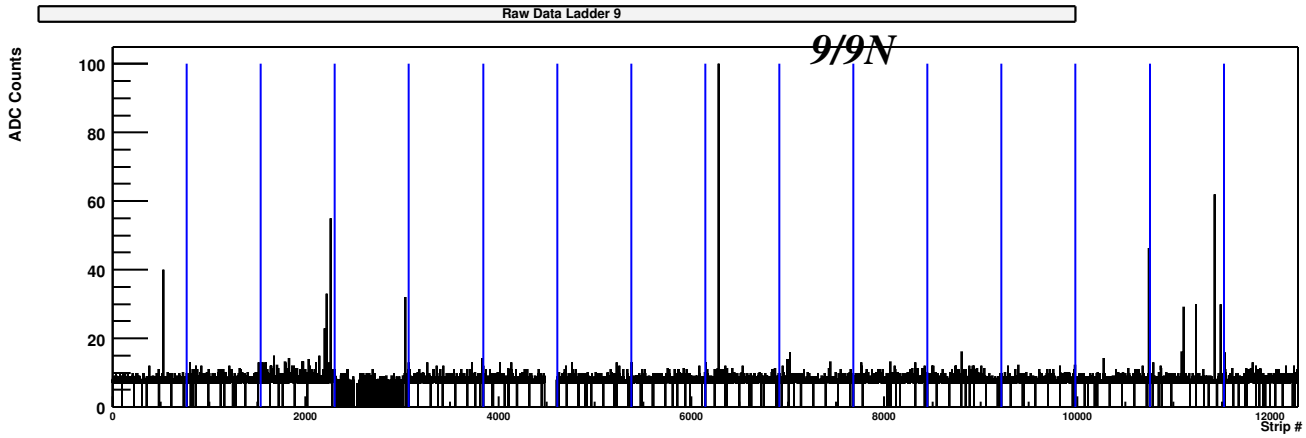

Raw Data Ladder 26
26/6P
ADC Counts
Strip #

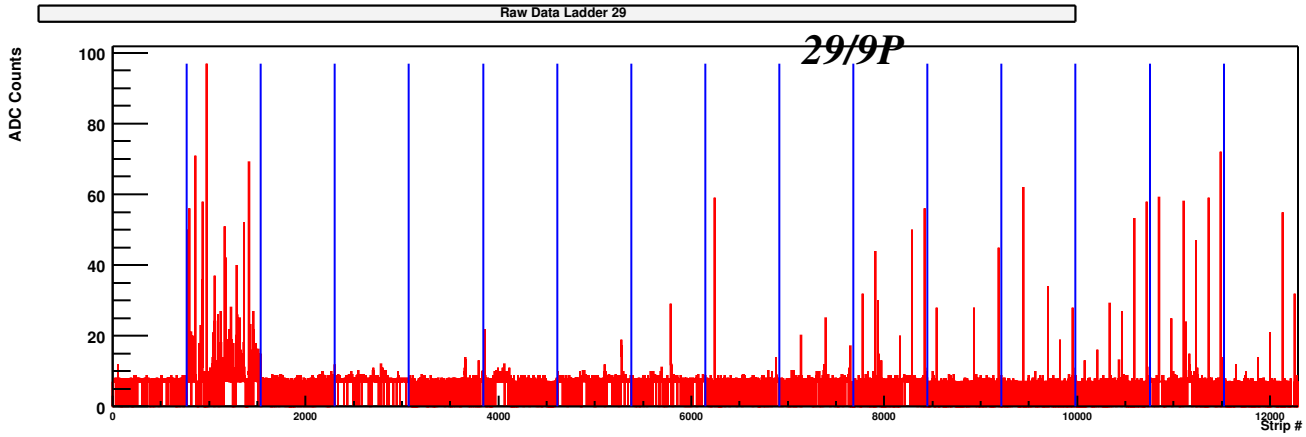

Raw Data Ladder 7
7/7N
ADC Counts
Strip #

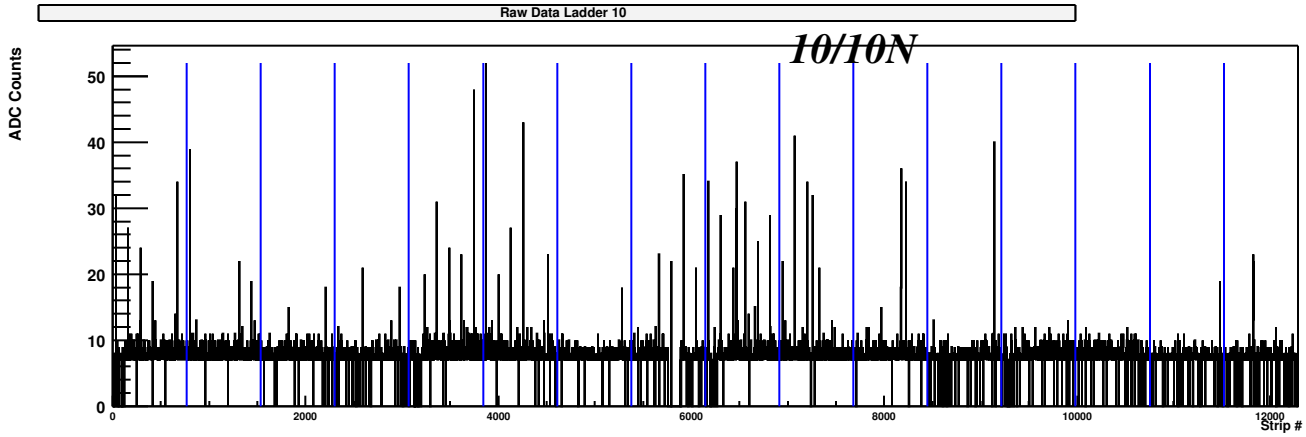

Raw Data Ladder 27
27/7P
ADC Counts
Strip #

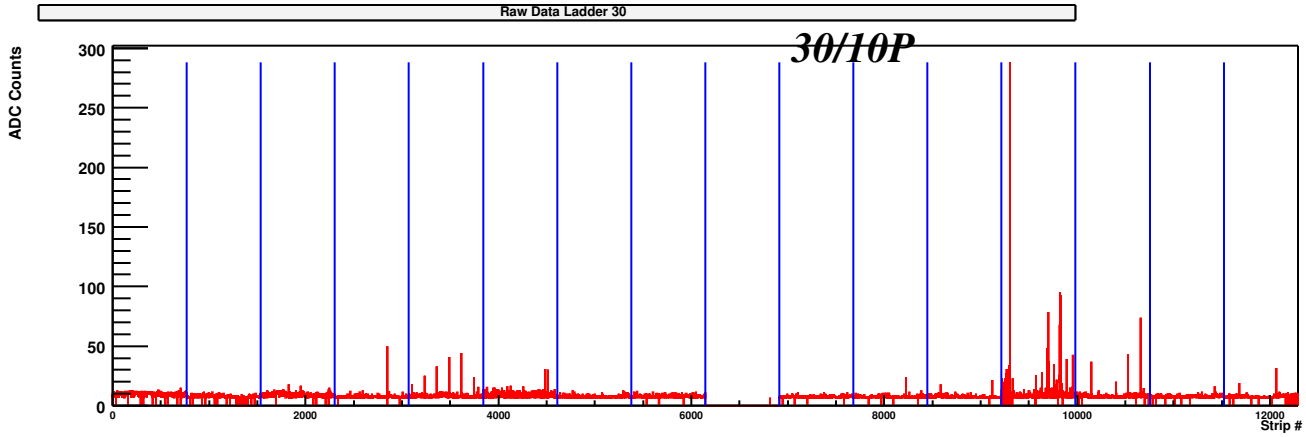

Raw Data Ladder 8
8/8N
ADC Counts
Strip #

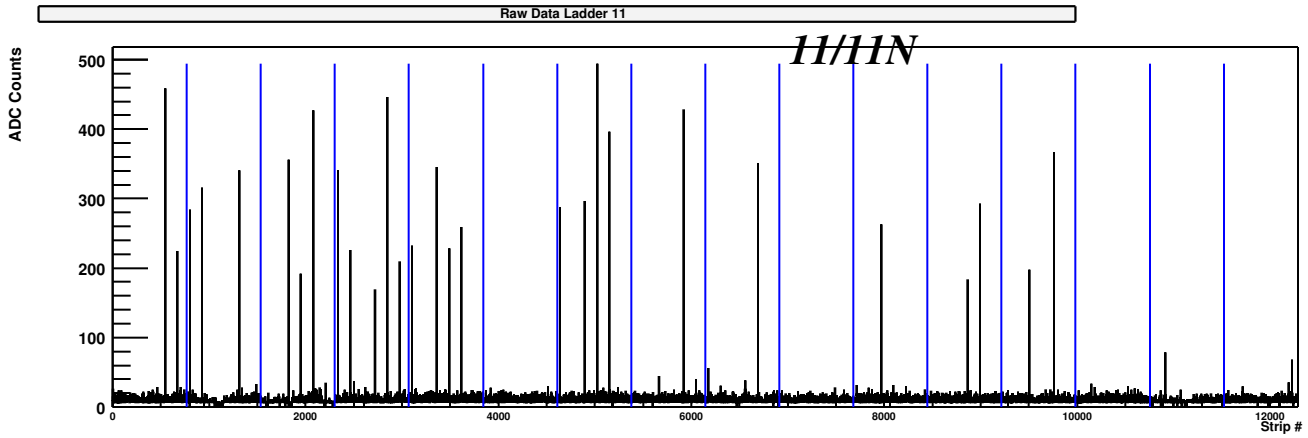

Raw Data Ladder 28
28/8P
ADC Counts
Strip #

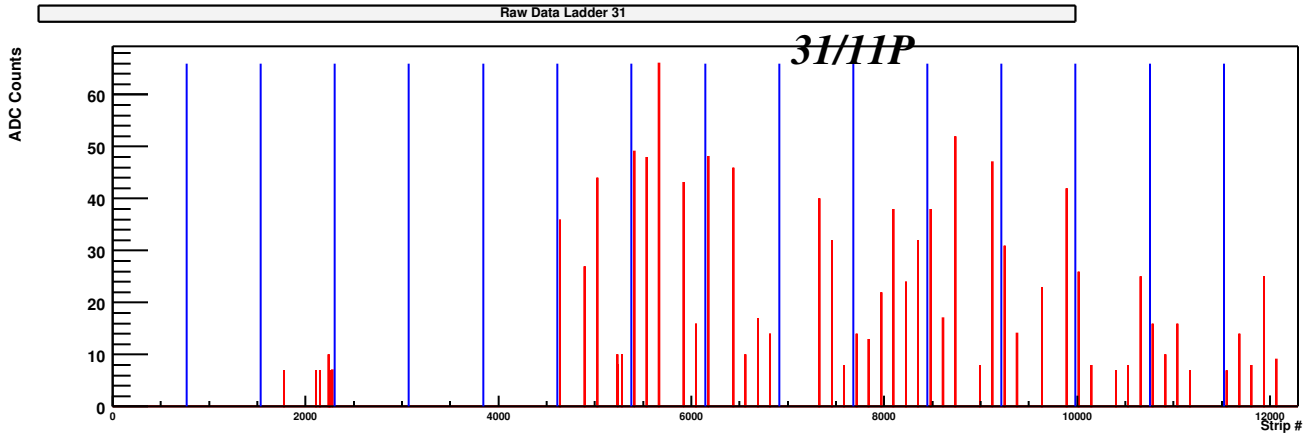

Raw Data Ladder 9
9/9N
ADC Counts
Strip #

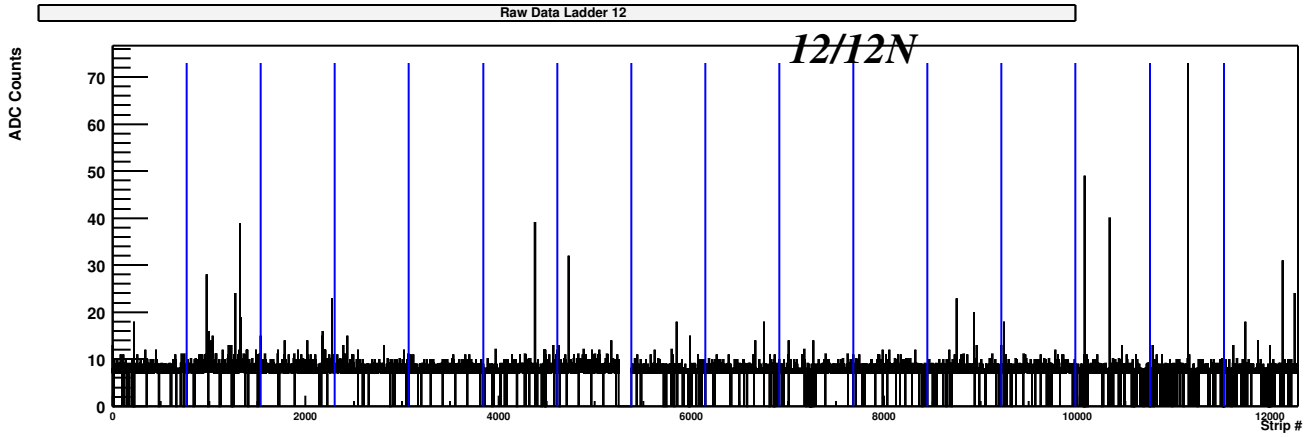

Raw Data Ladder 29
29/9P
ADC Counts
Strip #

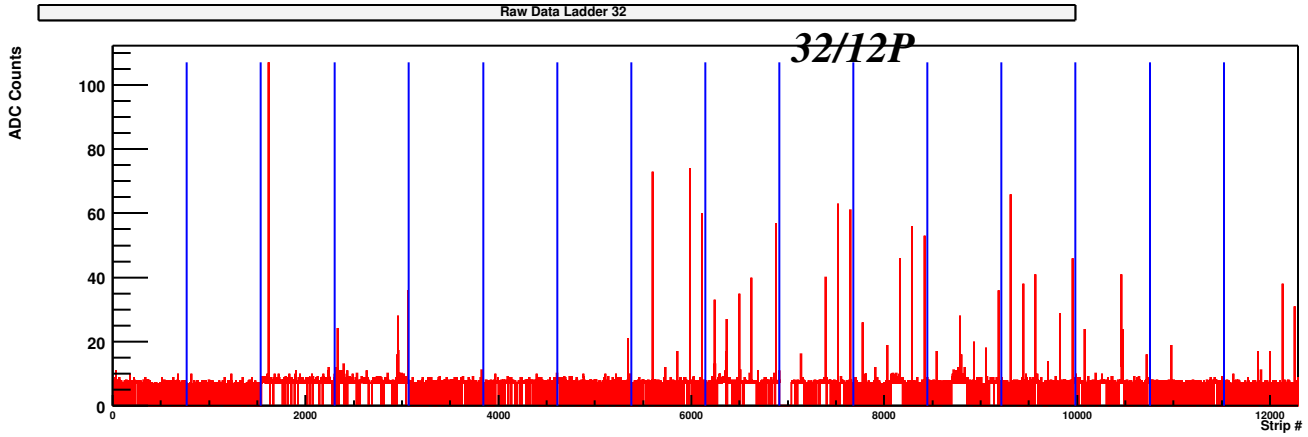

Raw Data Ladder 10
10/10N
ADC Counts
Strip #

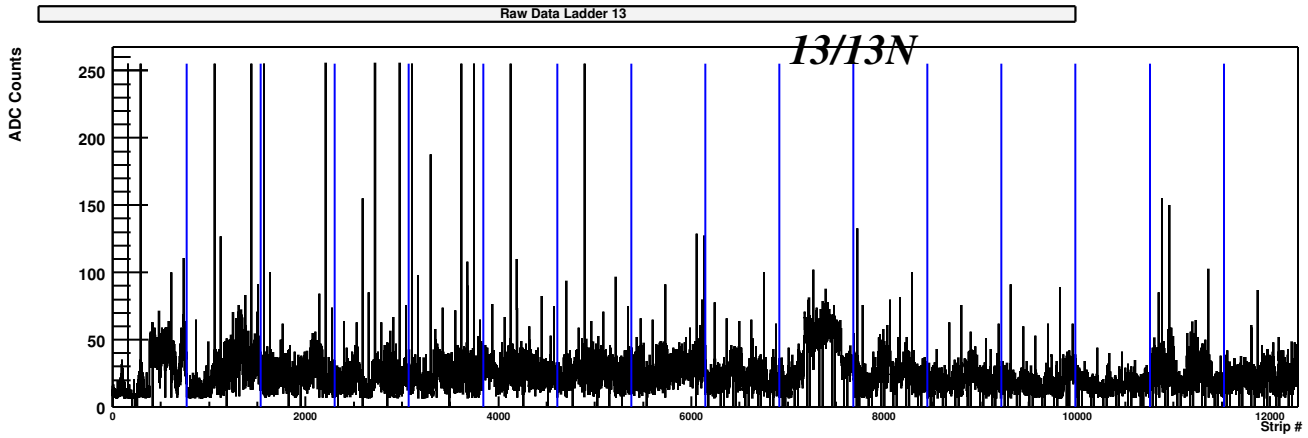

Raw Data Ladder 30
30/10P
ADC Counts
Strip #

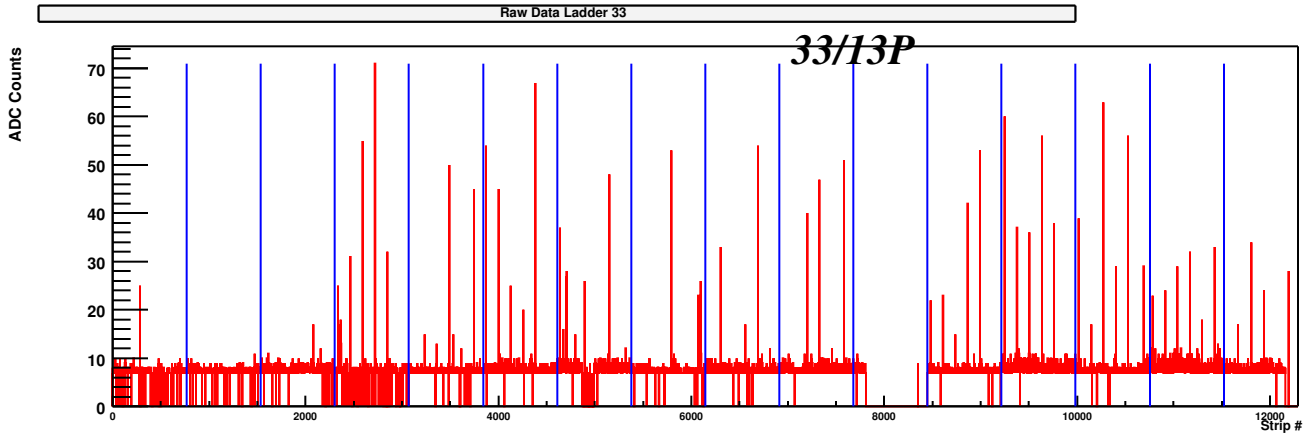

Raw Data Ladder 11
11/11N
ADC Counts
Strip #

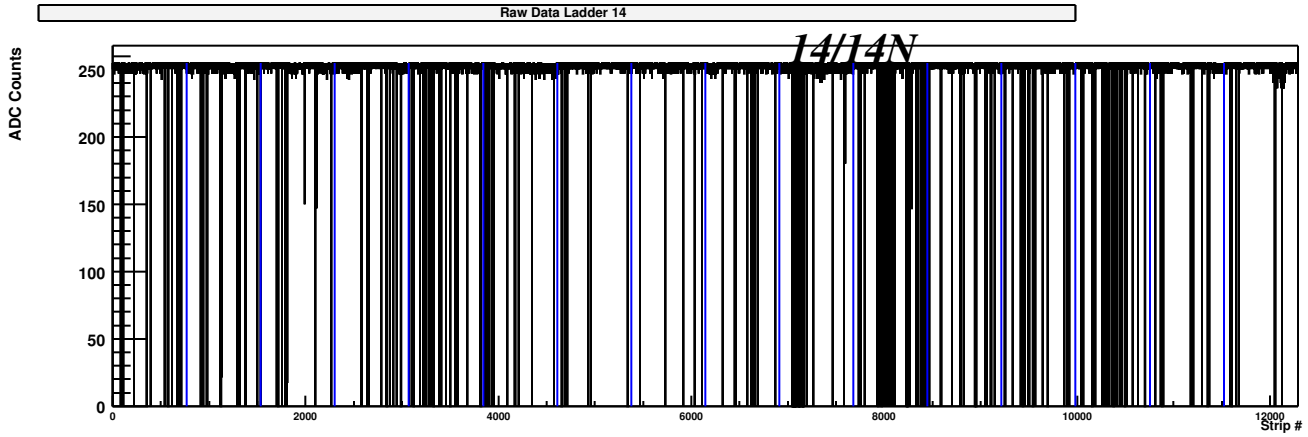

Raw Data Ladder 31
31/11P
ADC Counts
Strip #

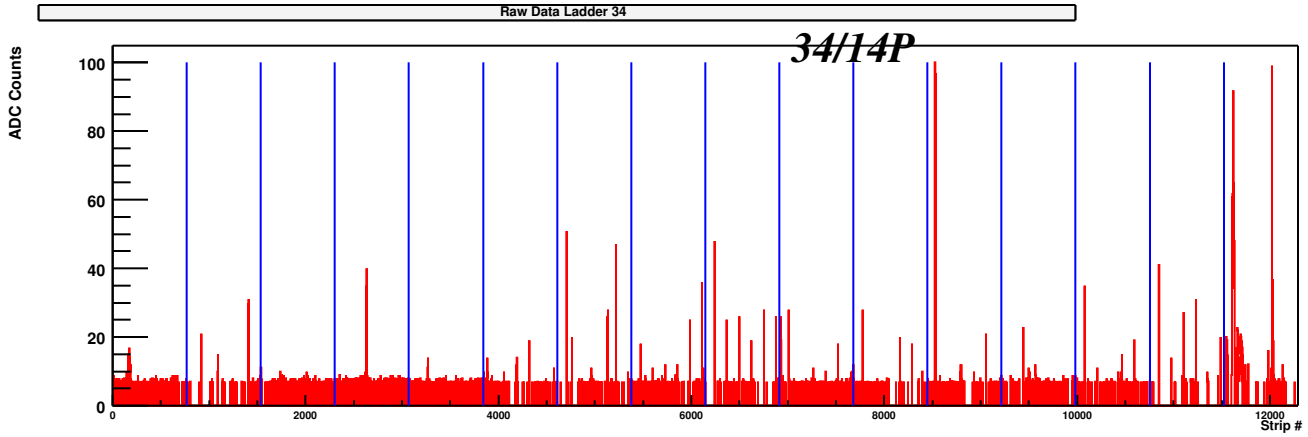

Raw Data Ladder 12
12/12N
ADC Counts
Strip #

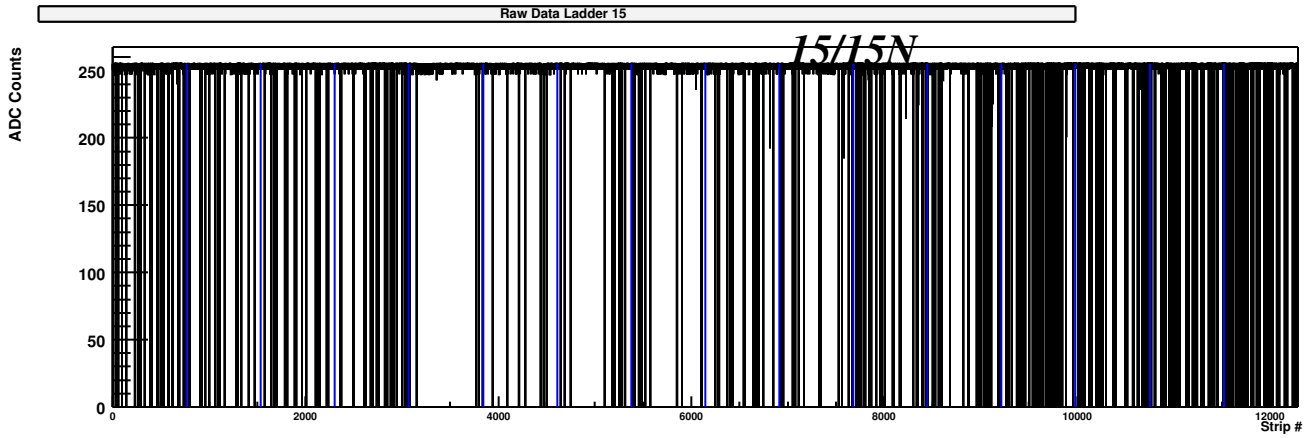

Raw Data Ladder 32
32/12P
ADC Counts
Strip #

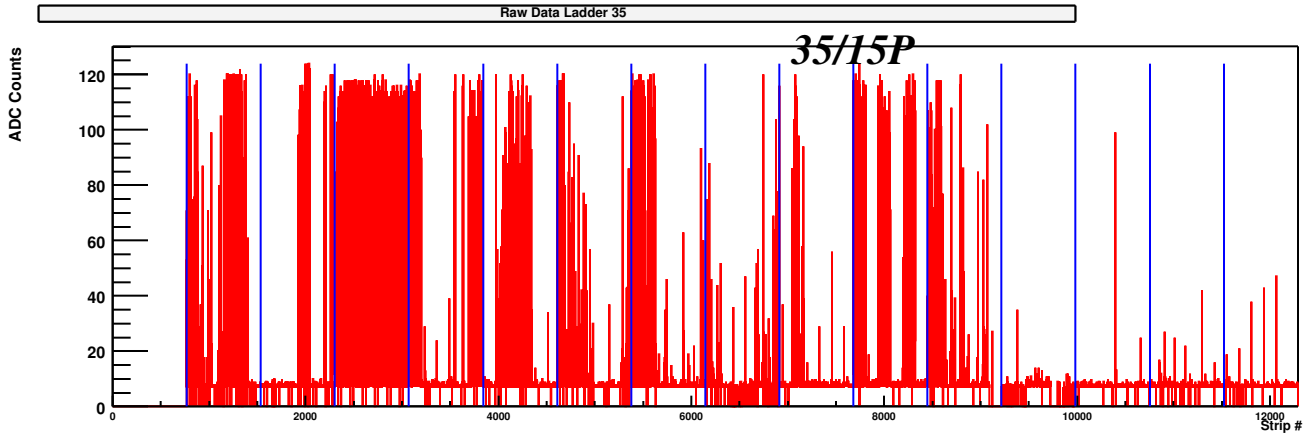

Raw Data Ladder 13
13/13N
ADC Counts
Strip #

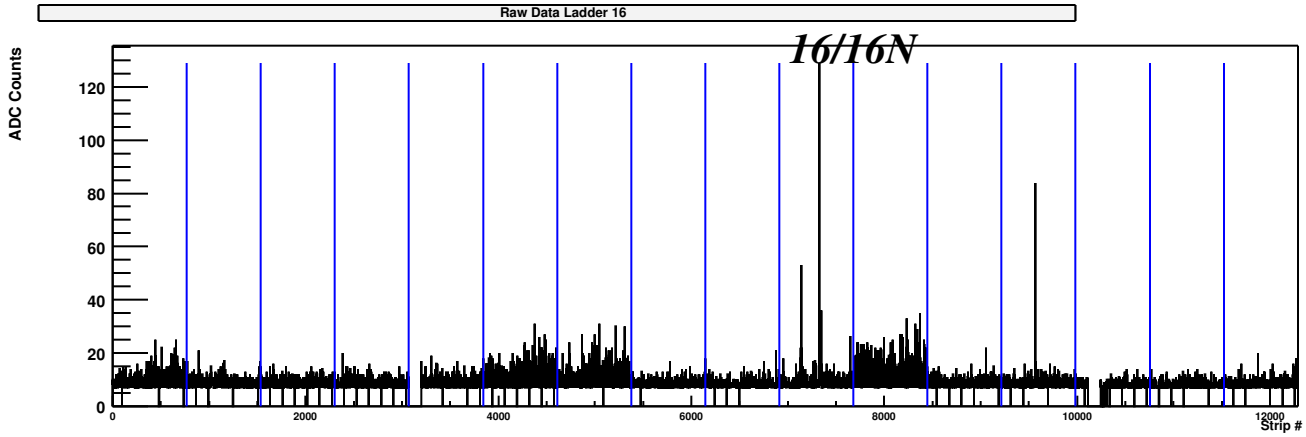

Raw Data Ladder 33
33/13P
ADC Counts
Strip #

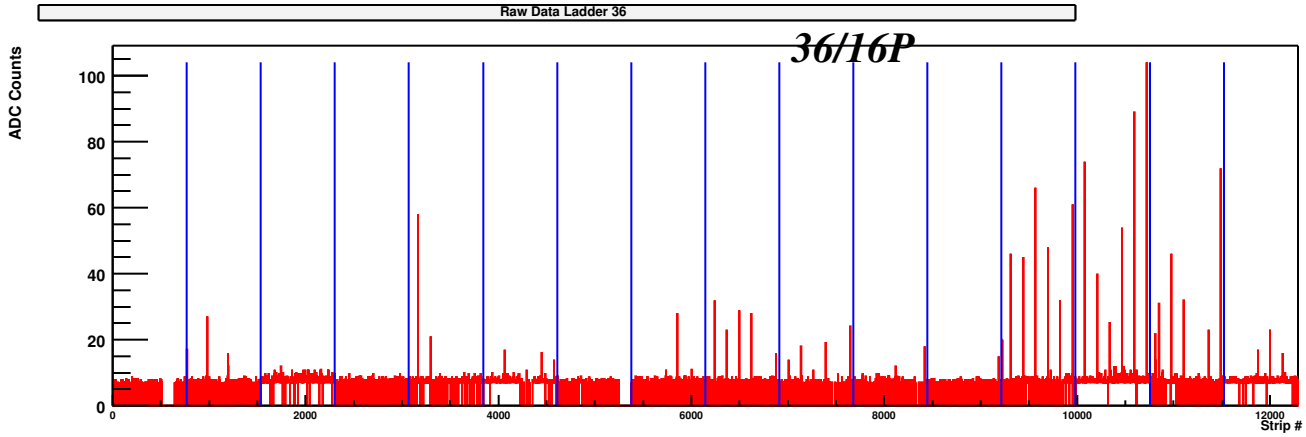

Raw Data Ladder 14
14/14N
ADC Counts
Strip #

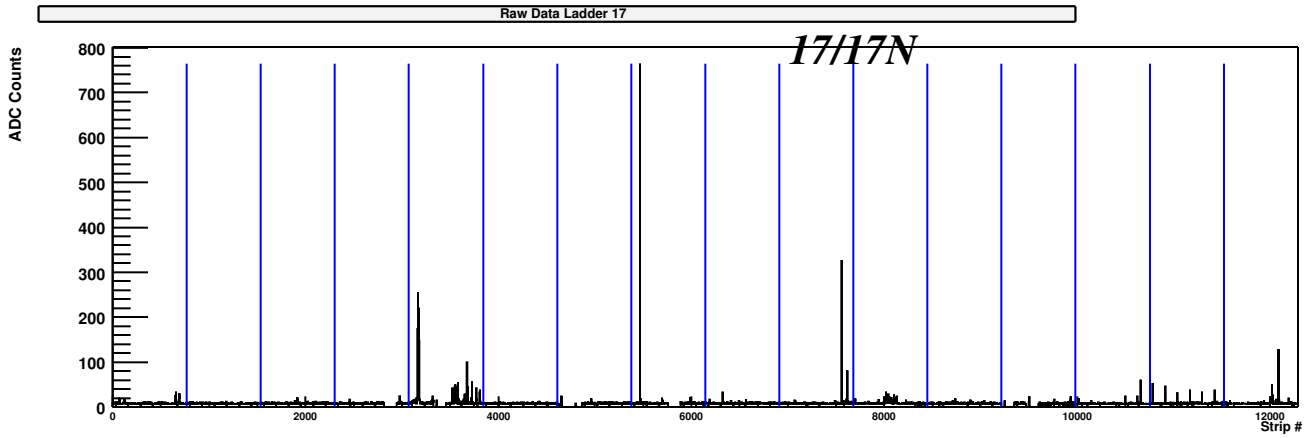

Raw Data Ladder 34
34/14P
ADC Counts
Strip #

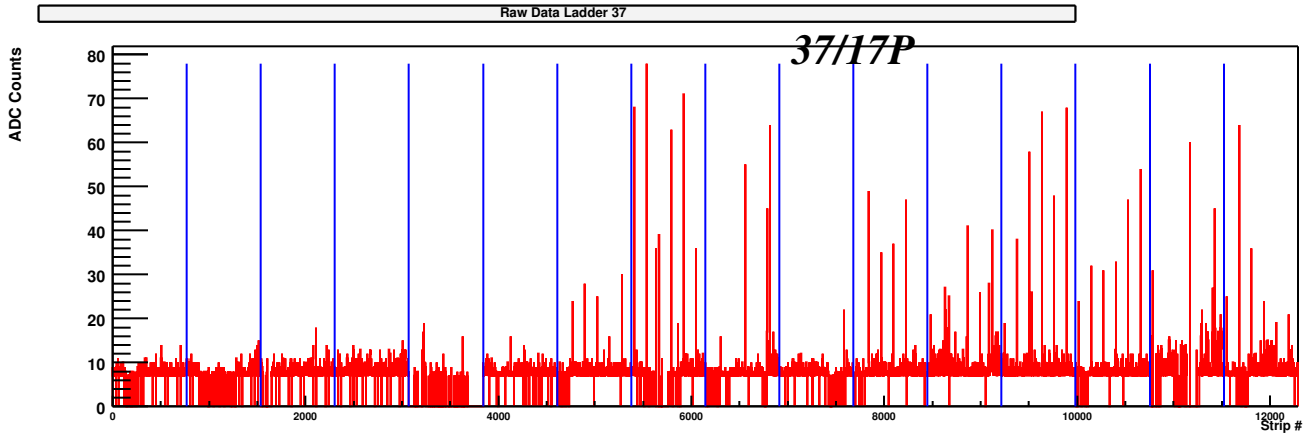

Raw Data Ladder 15
15/15N
ADC Counts
Strip #

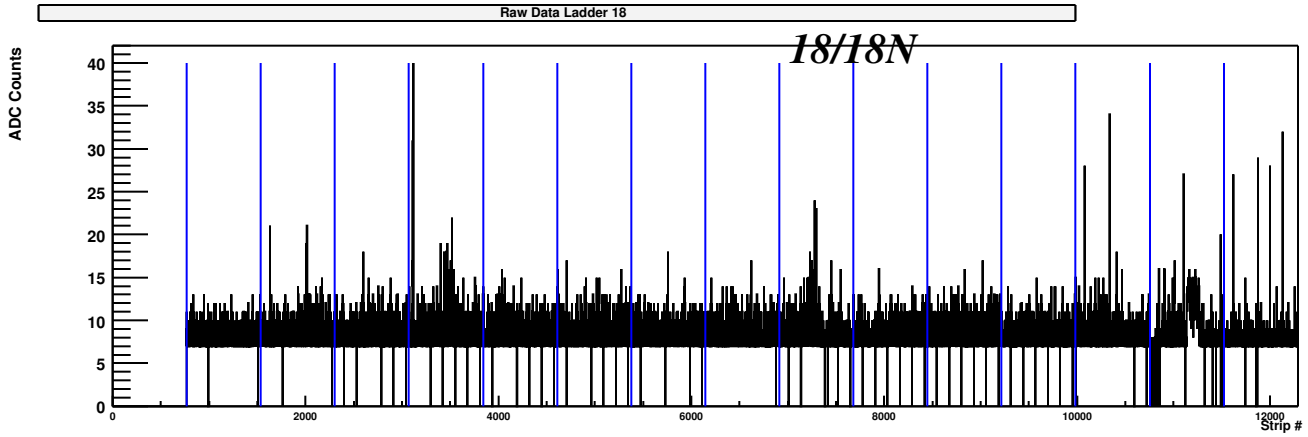

Raw Data Ladder 35
35/15P
ADC Counts
Strip #

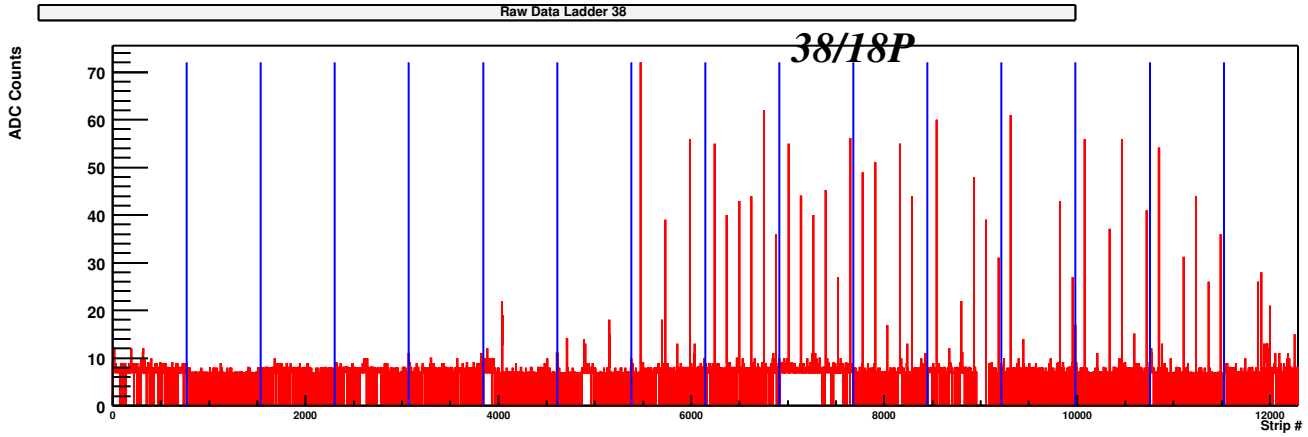

Raw Data Ladder 16
16/16N
ADC Counts
Strip #

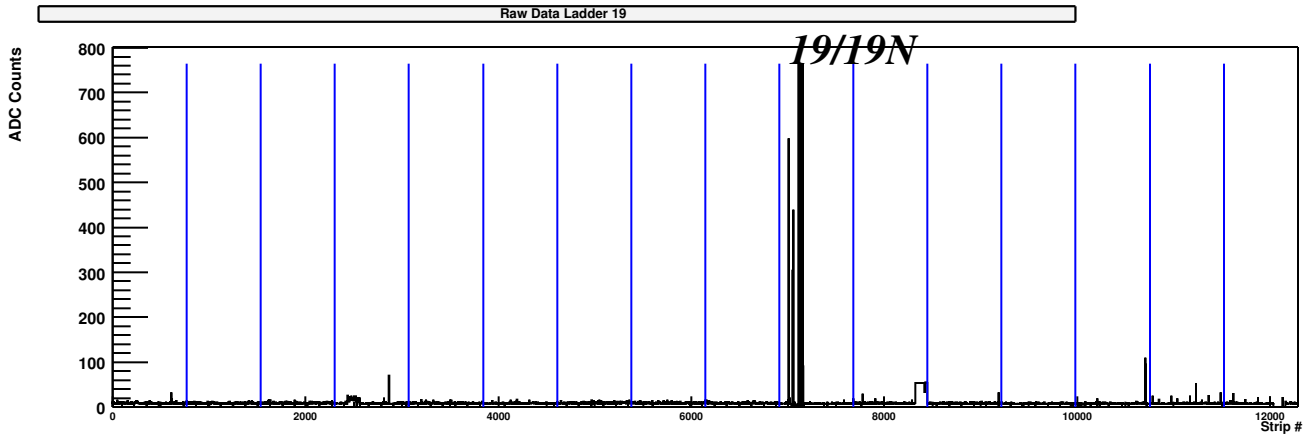

Raw Data Ladder 36
36/16P
ADC Counts
Strip #

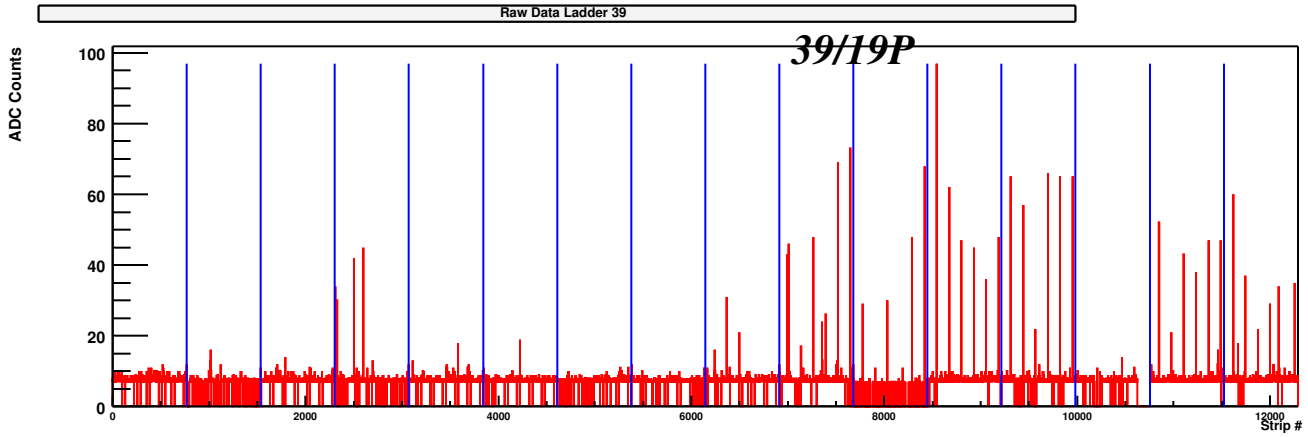

Raw Data Ladder 17
17/17N
ADC Counts
Strip #

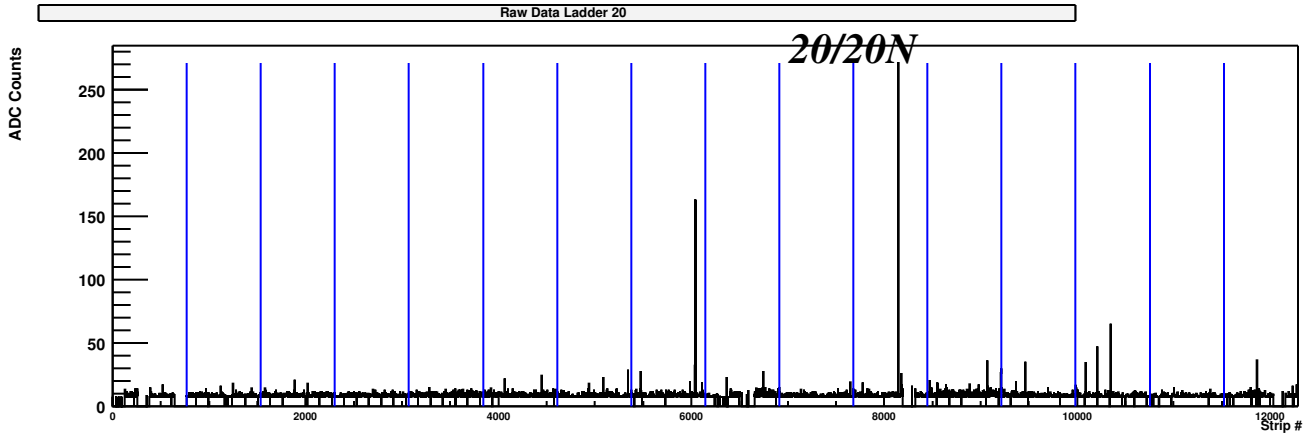

Raw Data Ladder 37
37/17P
ADC Counts
Strip #

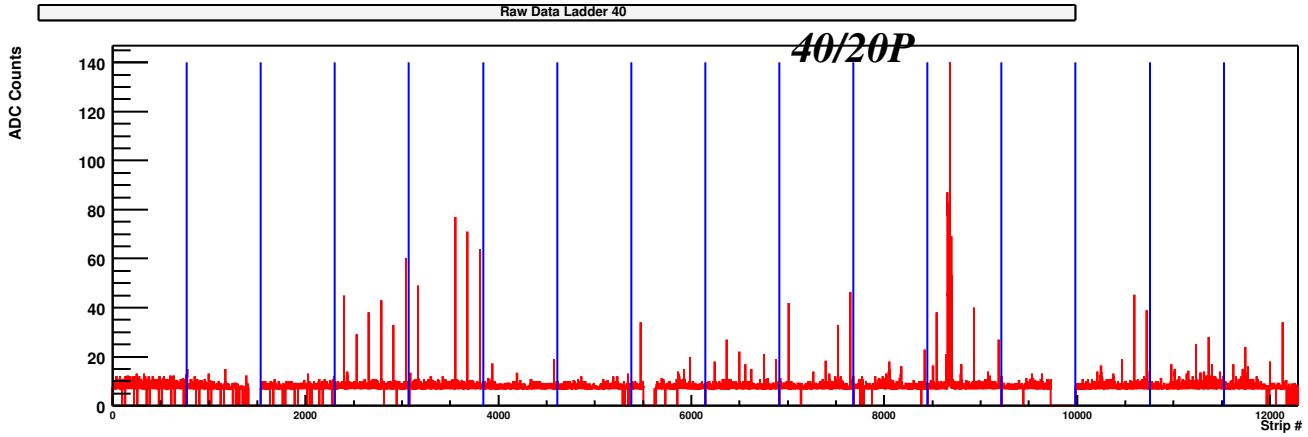

Raw Data Ladder 18
18/18N
ADC Counts
Strip #


Raw Data Ladder 38
38/18P
ADC Counts
Strip #


Raw Data Ladder 19
19/19N
ADC Counts
Strip #


Raw Data Ladder 39
39/19P
ADC Counts
Strip #


Raw Data Ladder 20
20/20N
ADC Counts
Strip #


Raw Data Ladder 40
40/20P
ADC Counts
Strip #