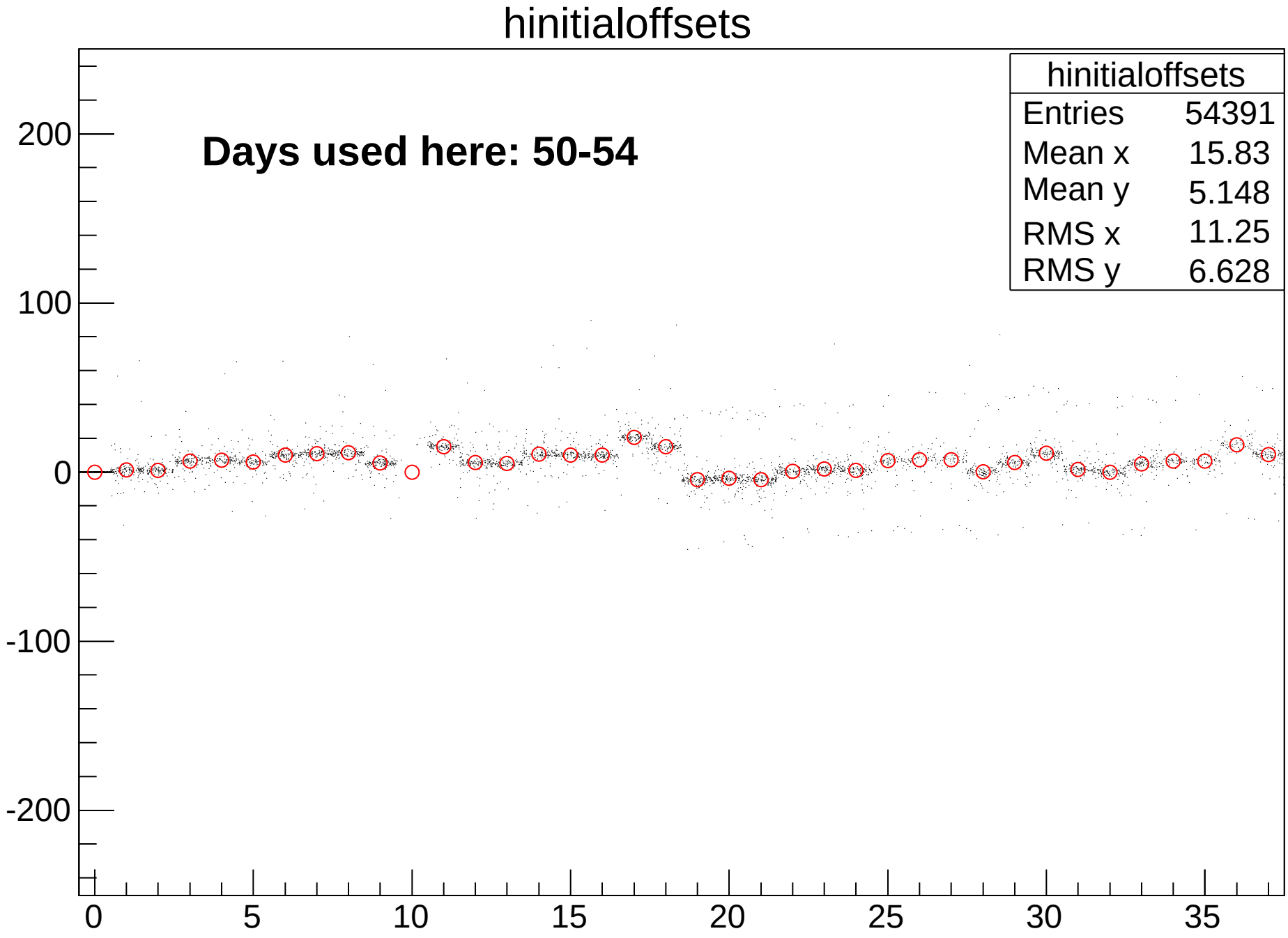
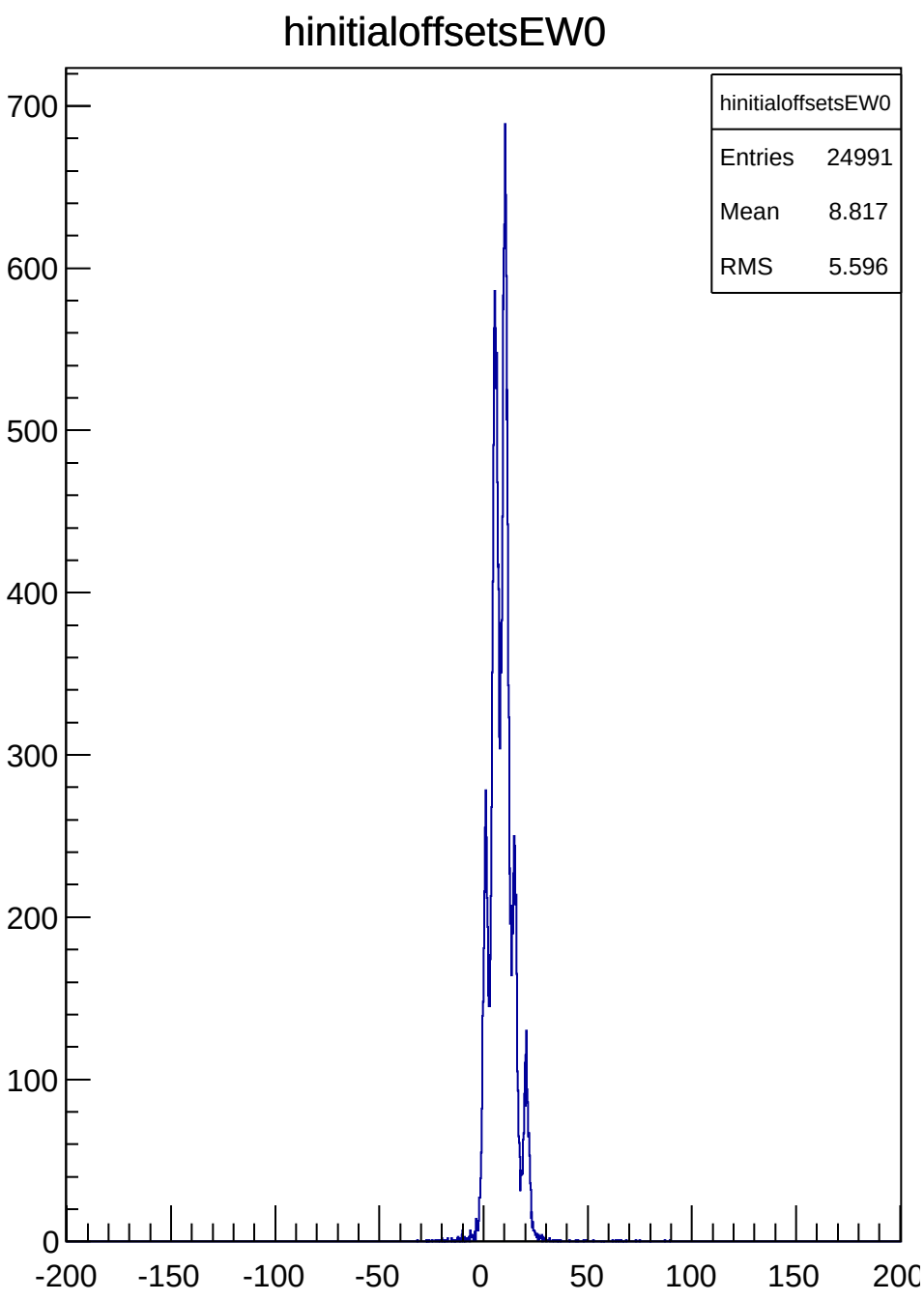
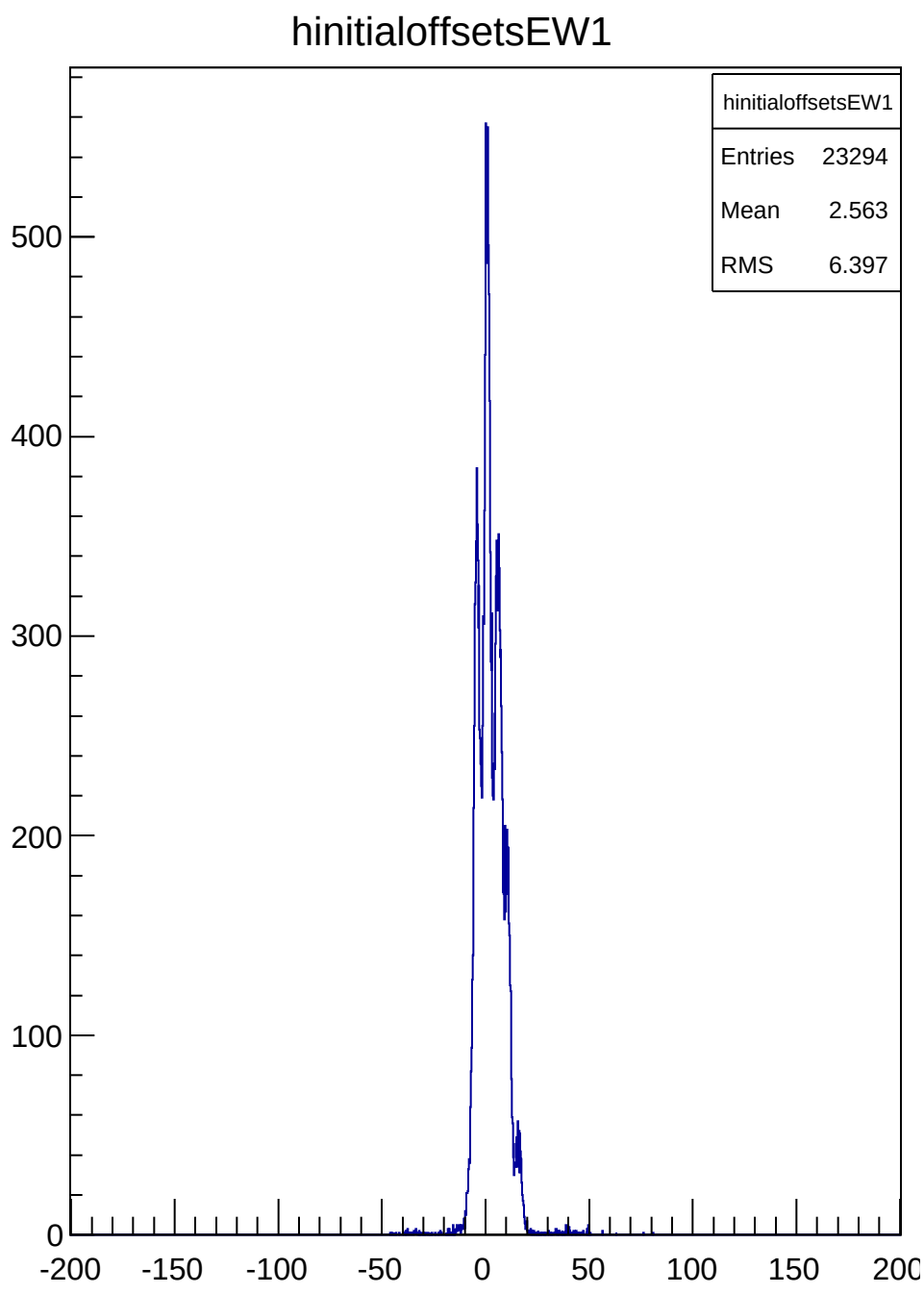
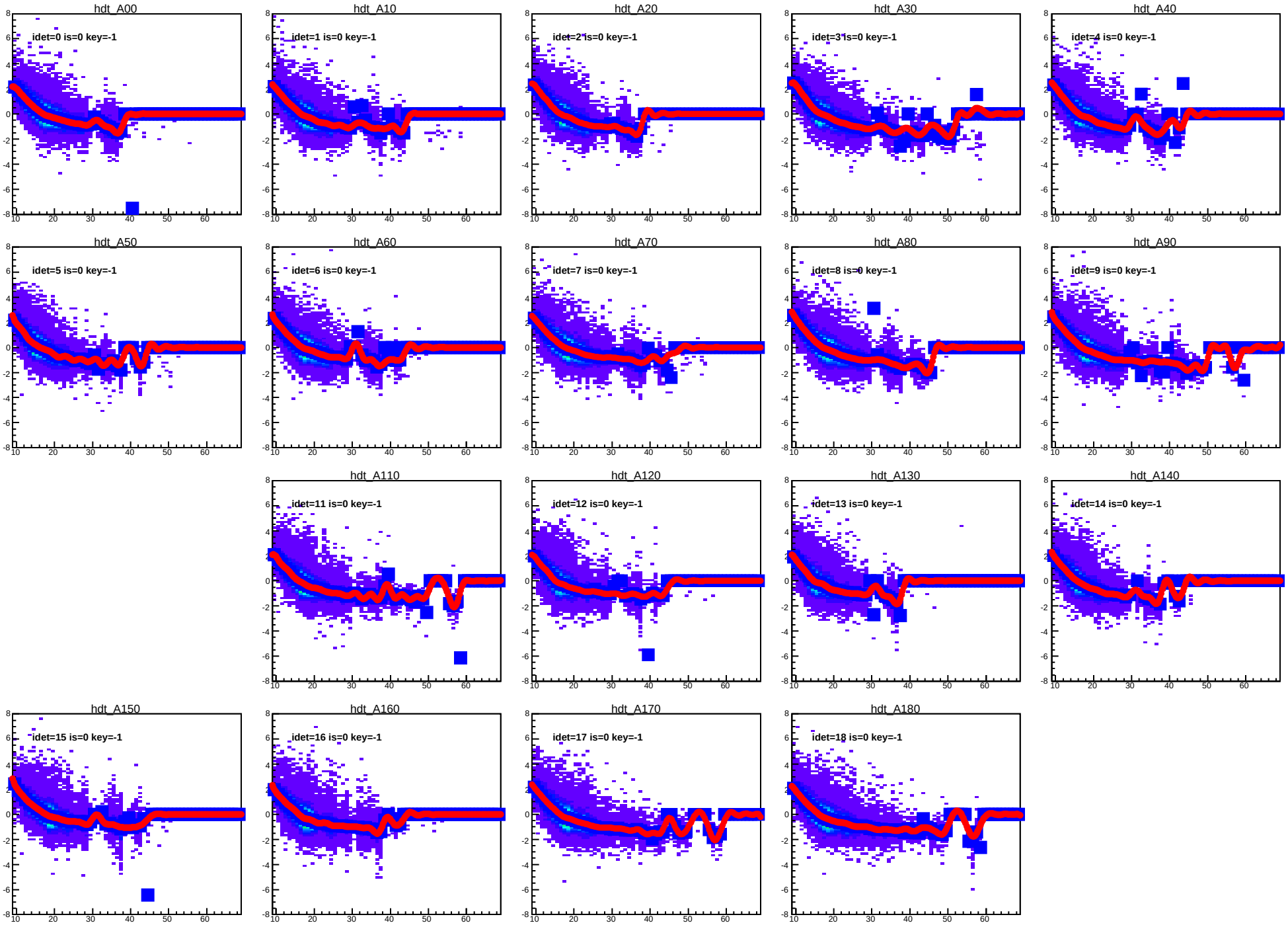

hinitialoffsets
Days used here: 50-54
hinitialoffsets
Entries 54391
Mean x 15.83
Mean y 5.148
RMS x 11.25
RMS y 6.628
200
100
0
-100
-200
0
5
10
15
20
25
30
35


hinitialoffsetsEW0
hinitialoffsetsEW0
Entries 24991
Mean 8.817
RMS 5.596
700
600
500
400
300
200
100
0
-200
-150
-100
-50
0
50
100
150
200


hinitialoffsetsEW1
hinitialoffsetsEW1
Entries 23294
Mean 2.563
RMS 6.397
500
400
300
200
100
0
-200
-150
-100
-50
0
50
100
150
200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hdt_A20
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idet=3 is=0 key=-1
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idet=4 is=0 key=-1
hdt_A50
idet=5 is=0 key=-1
hdt_A60
idet=6 is=0 key=-1
hdt_A70
idet=7 is=0 key=-1
hdt_A80
idet=8 is=0 key=-1
hdt_A90
idet=9 is=0 key=-1
hdt_A110
idet=11 is=0 key=-1
hdt_A120
idet=12 is=0 key=-1
hdt_A130
idet=13 is=0 key=-1
hdt_A140
idet=14 is=0 key=-1
hdt_A150
idet=15 is=0 key=-1
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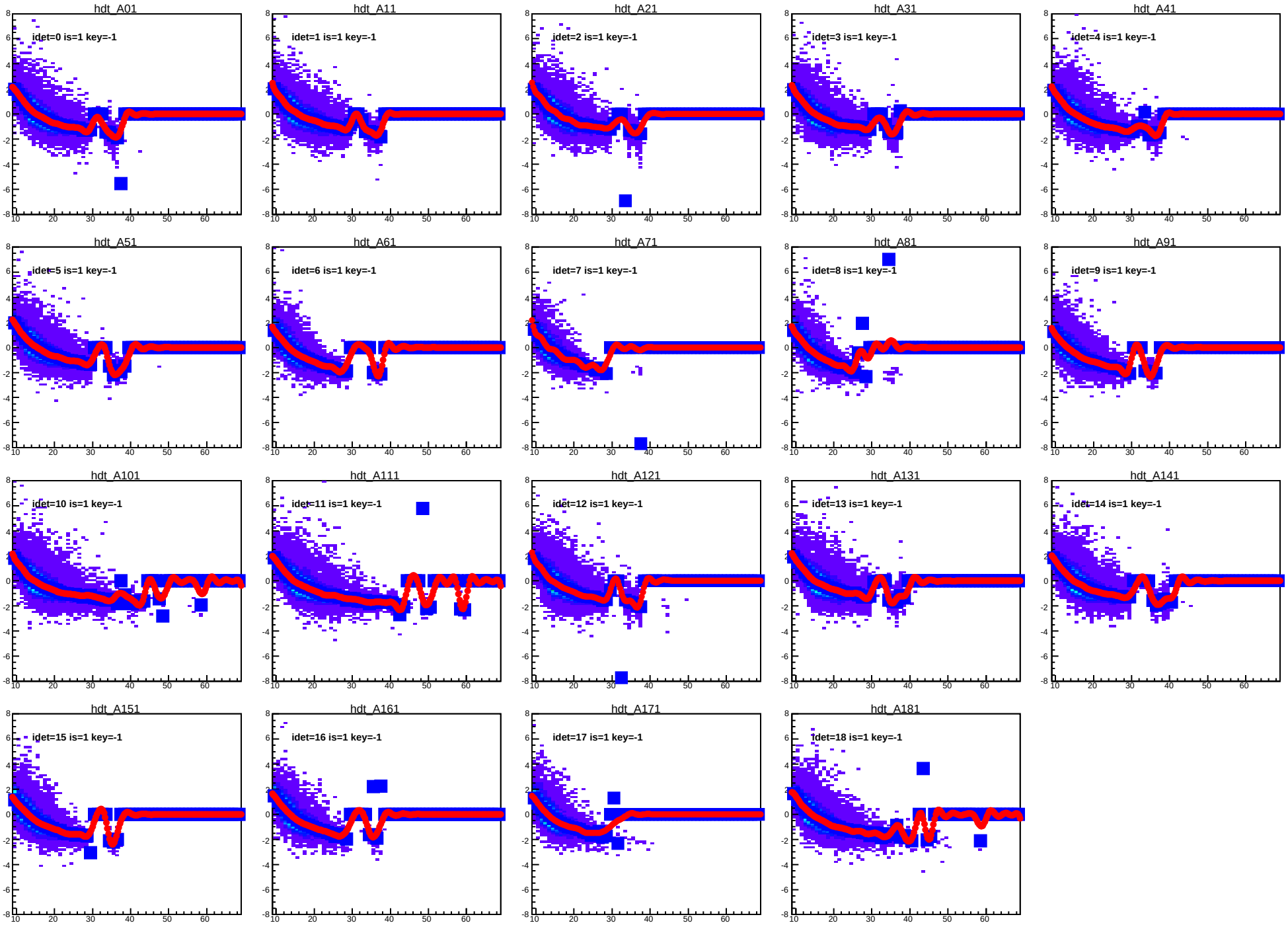
idet=16 is=0 key=-1
hdt_A170
idet=17 is=0 key=-1
hdt_A180
idet=18 is=0 key=-1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idet=1 is=1 key=-1
hdt_A21
idet=2 is=1 key=-1
hdt_A31
idet=3 is=1 key=-1
hdt_A41
idet=4 is=1 key=-1
hdt_A51
idet=5 is=1 key=-1
hdt_A61
idet=6 is=1 key=-1
hdt_A71
idet=7 is=1 key=-1
hdt_A81
idet=8 is=1 key=-1
hdt_A91
idet=9 is=1 key=-1
hdt_A101
idet=10 is=1 key=-1
hdt_A111
idet=11 is=1 key=-1
hdt_A121
idet=12 is=1 key=-1
hdt_A131
idet=13 is=1 key=-1
hdt_A141
idet=14 is=1 key=-1
hdt_A151
idet=15 is=1 key=-1
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hdt_A181
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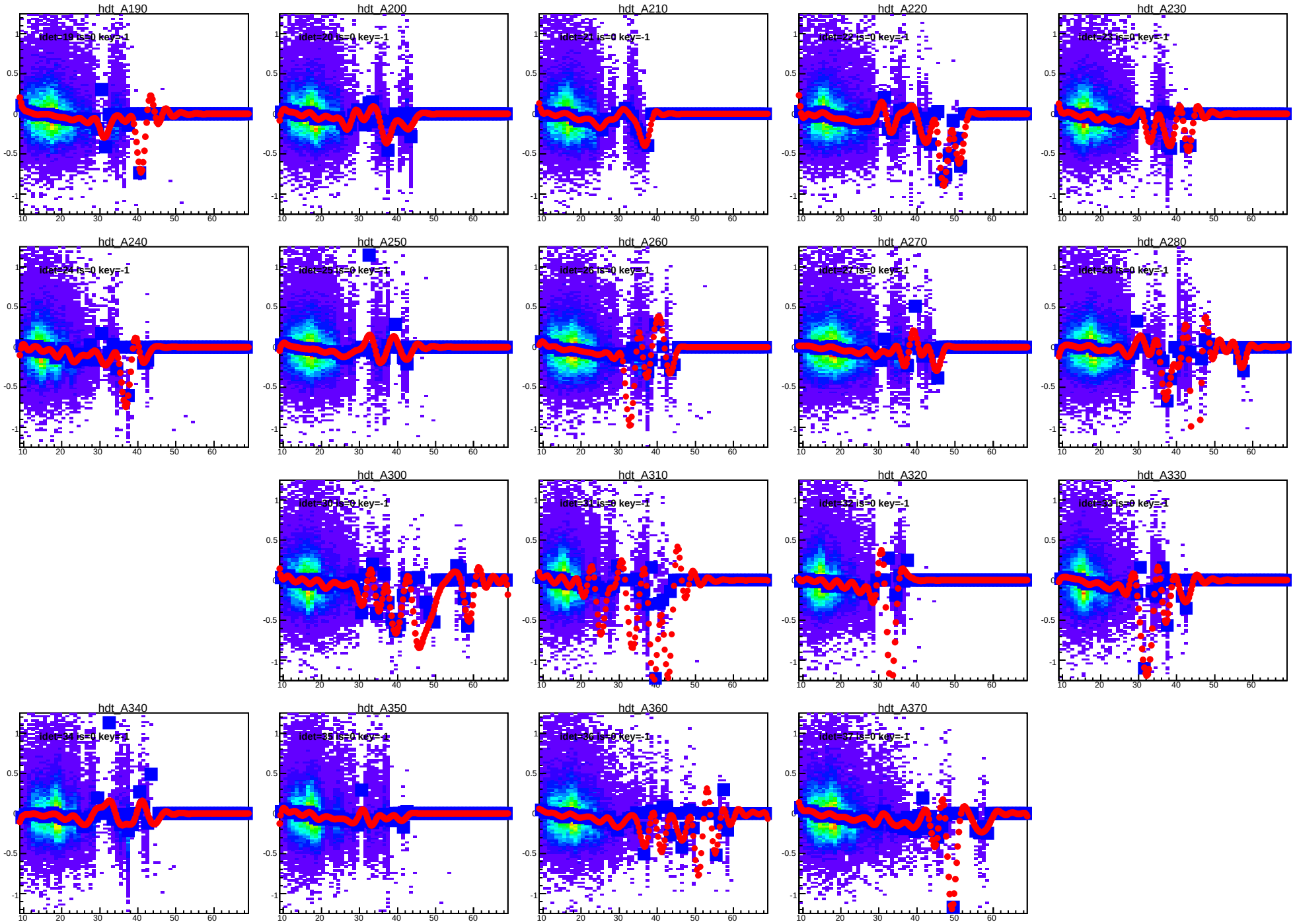
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idet=22 is=0 key=-1
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idet=23 is=0 key=-1
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idet=24 is=0 key=-1
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idet=25 is=0 key=-1
hdt_A260
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hdt_A280
idet=28 is=0 key=-1
hdt_A300
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hdt_A310
idet=31 is=0 key=-1
hdt_A320
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hdt_A330
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hdt_A340
idet=34 is=0 key=-1
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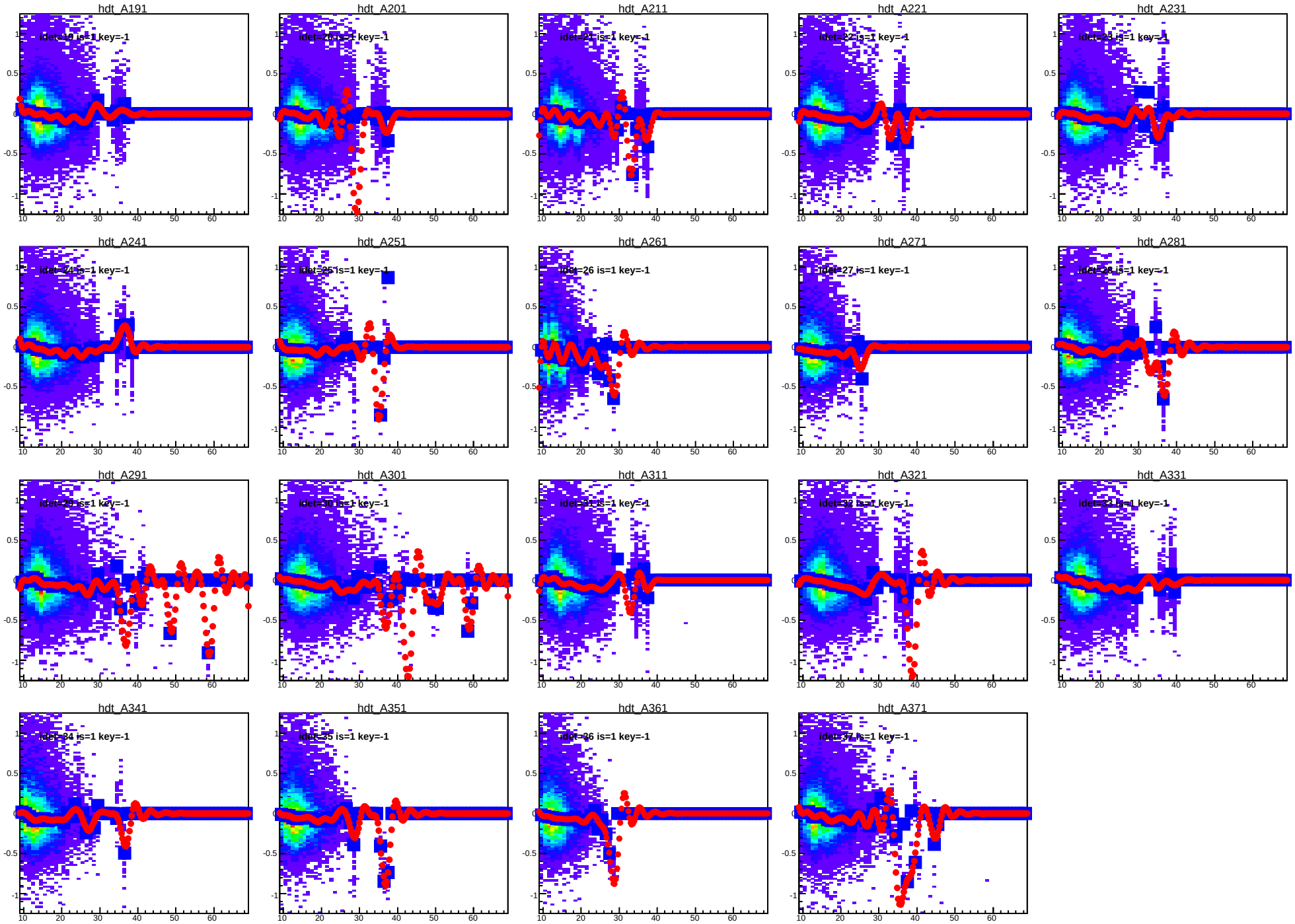
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idet=22 is=1 key=-1
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idet=23 is=1 key=-1
hdt_A241
idet=24 is=1 key=-1
hdt_A251
idet=25 is=1 key=-1
hdt_A261
idet=26 is=1 key=-1
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idet=27 is=1 key=-1
hdt_A281
idet=28 is=1 key=-1
hdt_A291
idet=29 is=1 key=-1
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idet=30 is=1 key=-1
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idet=31 is=1 key=-1
hdt_A321
idet=32 is=1 key=-1
hdt_A331
idet=33 is=1 key=-1
hdt_A341
idet=34 is=1 key=-1
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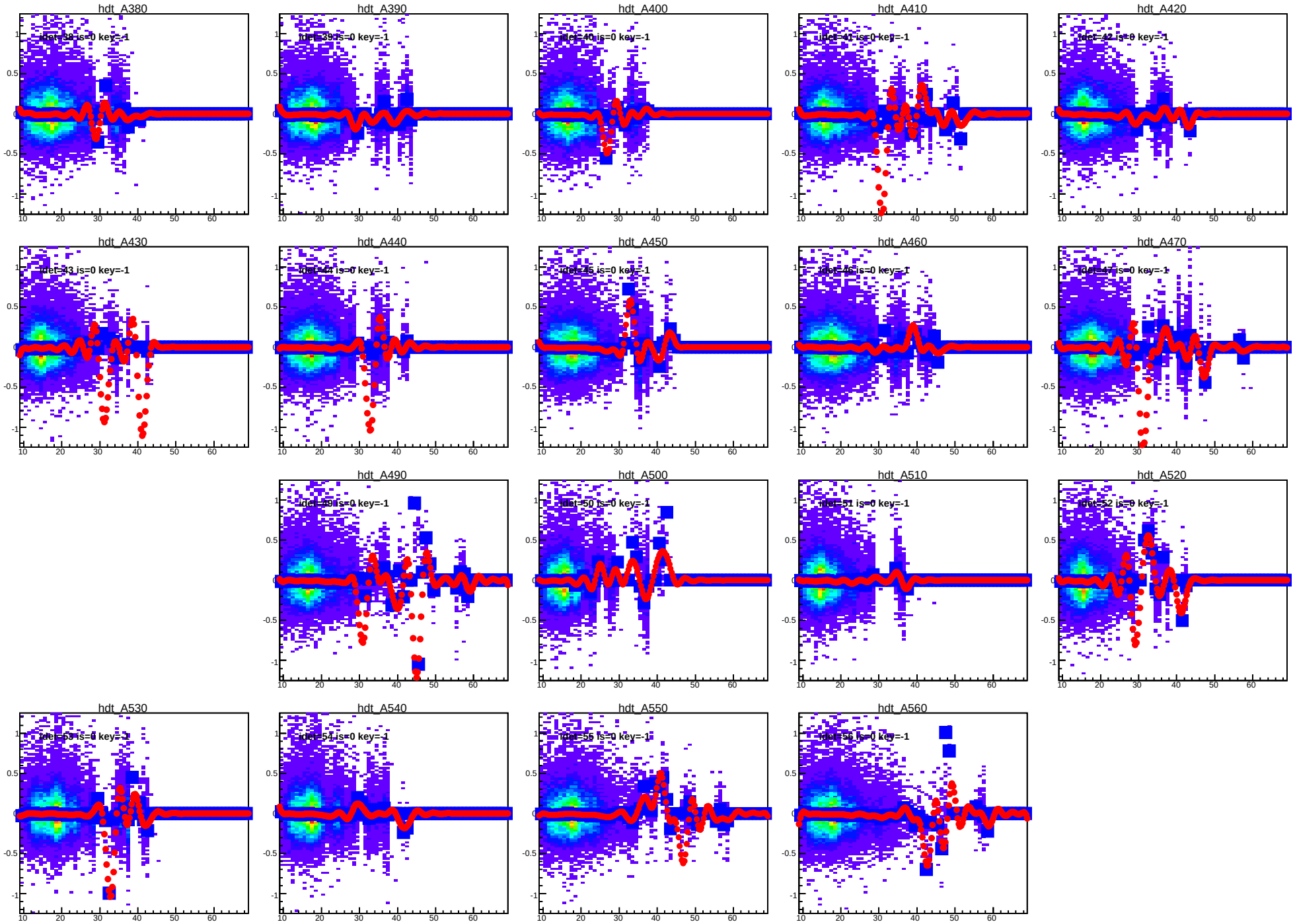
hdt_A371
idet=37 is=1 key=-1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hdt_A390
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idet=41 is=0 key=-1
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idet=42 is=0 key=-1
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idet=43 is=0 key=-1
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idet=44 is=0 key=-1
hdt_A450
idet=45 is=0 key=-1
hdt_A460
idet=46 is=0 key=-1
hdt_A470
idet=47 is=0 key=-1
hdt_A490
idet=49 is=0 key=-1
hdt_A500
idet=50 is=0 key=-1
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hdt_A520
idet=52 is=0 key=-1
hdt_A530
idet=53 is=0 key=-1
hdt_A540
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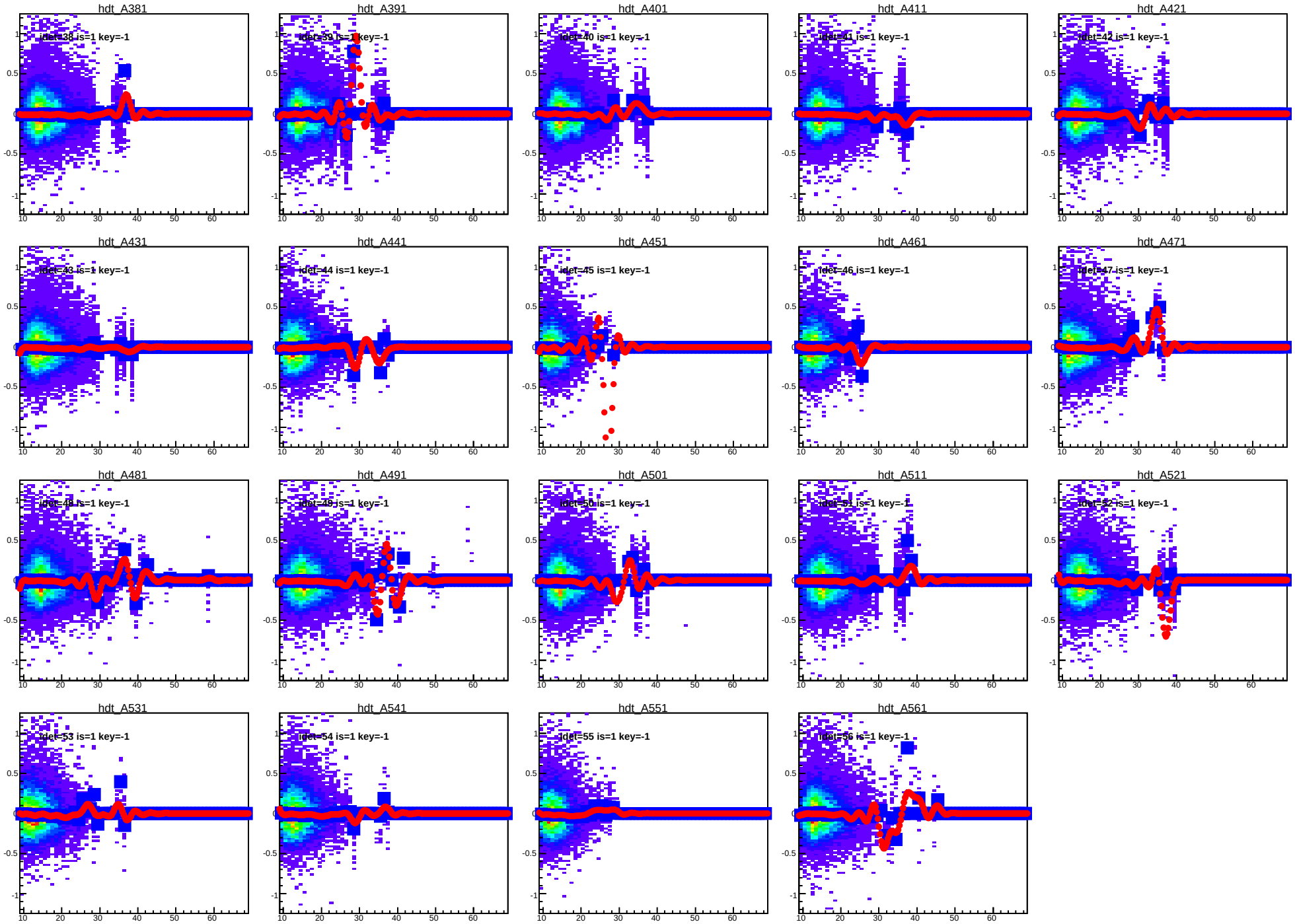
hdt_A550
idet=55 is=0 key=-1
hdt_A560
idet=56 is=0 key=-1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idet=39 is=1 key=-1
hdt_A401
idet=40 is=1 key=-1
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idet=41 is=1 key=-1
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idet=42 is=1 key=-1
hdt_A431
idet=43 is=1 key=-1
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idet=44 is=1 key=-1
hdt_A451
idet=45 is=1 key=-1
hdt_A461
idet=46 is=1 key=-1
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idet=47 is=1 key=-1
hdt_A481
idet=48 is=1 key=-1
hdt_A491
idet=49 is=1 key=-1
hdt_A501
idet=50 is=1 key=-1
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idet=51 is=1 key=-1
hdt_A521
idet=52 is=1 key=-1
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idet=53 is=1 key=-1
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idet=55 is=1 key=-1
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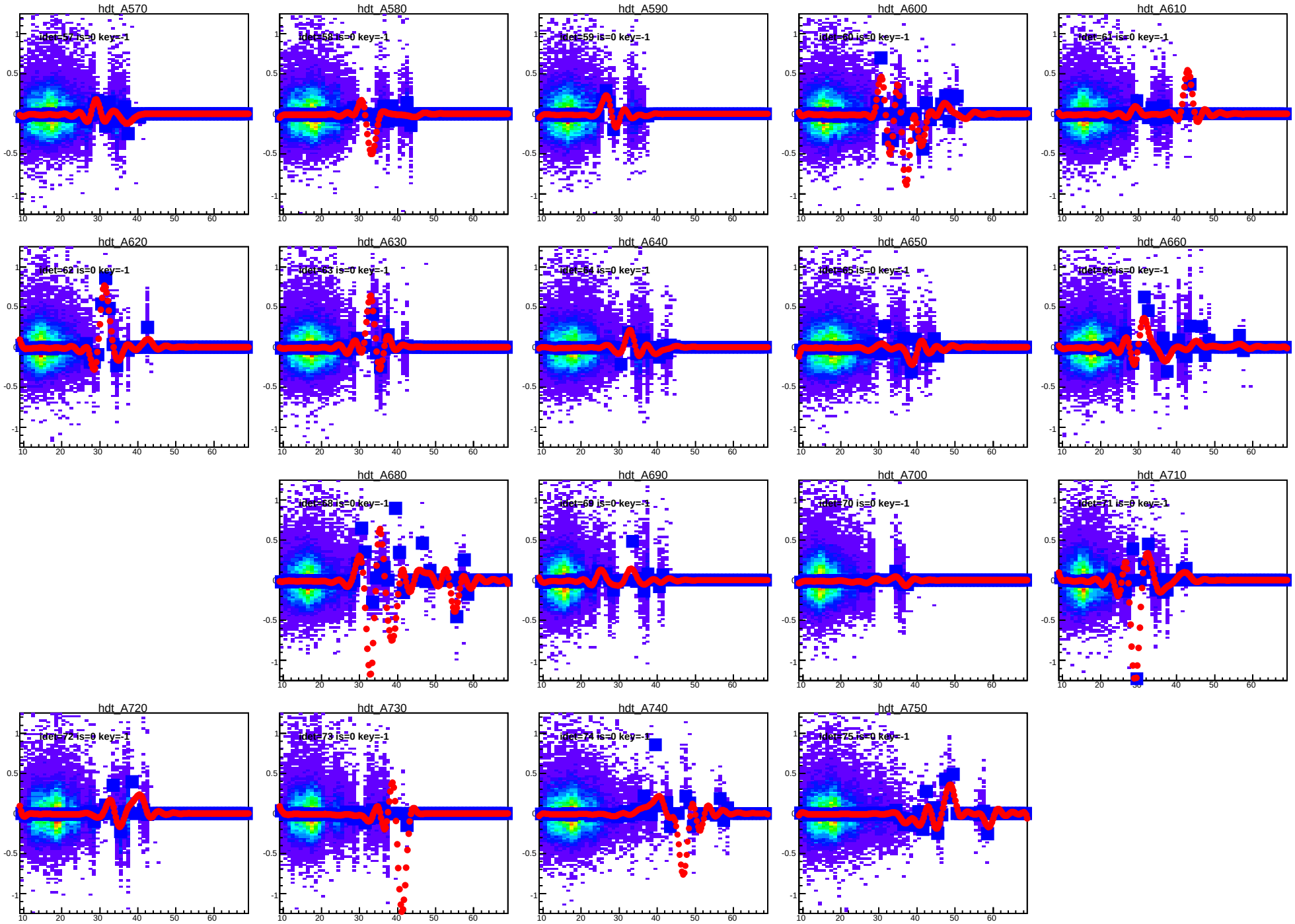
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idet=61 is=0 key=-1
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idet=63 is=0 key=-1
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idet=66 is=0 key=-1
hdt_A680
idet=68 is=0 key=-1
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idet=69 is=0 key=-1
hdt_A700
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hdt_A720
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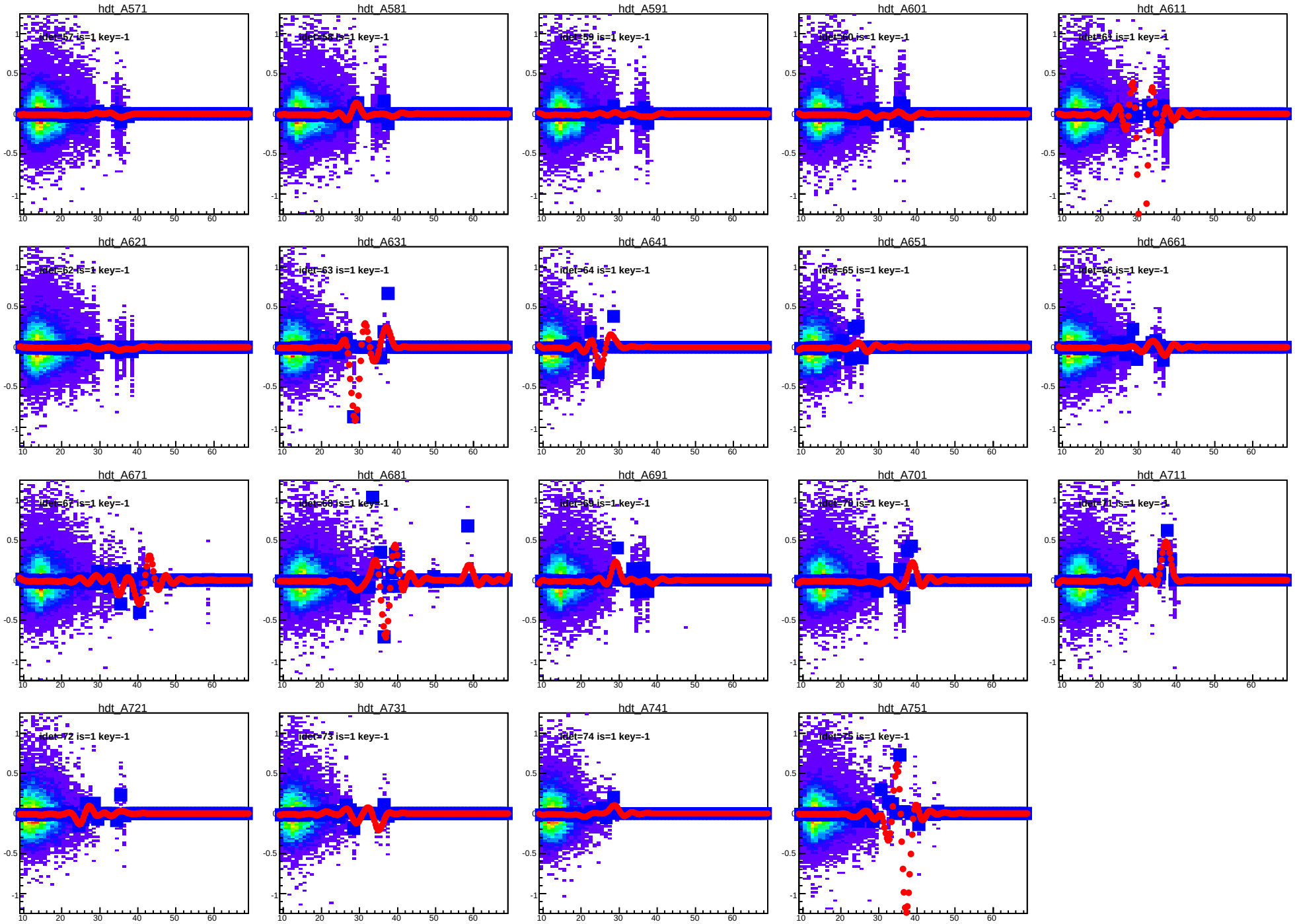
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idet=59 is=1 key=-1
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idet=61 is=1 key=-1
hdt_A621
idet=62 is=1 key=-1
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idet=63 is=1 key=-1
hdt_A641
idet=64 is=1 key=-1
hdt_A651
idet=65 is=1 key=-1
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idet=67 is=1 key=-1
hdt_A681
idet=68 is=1 key=-1
hdt_A691
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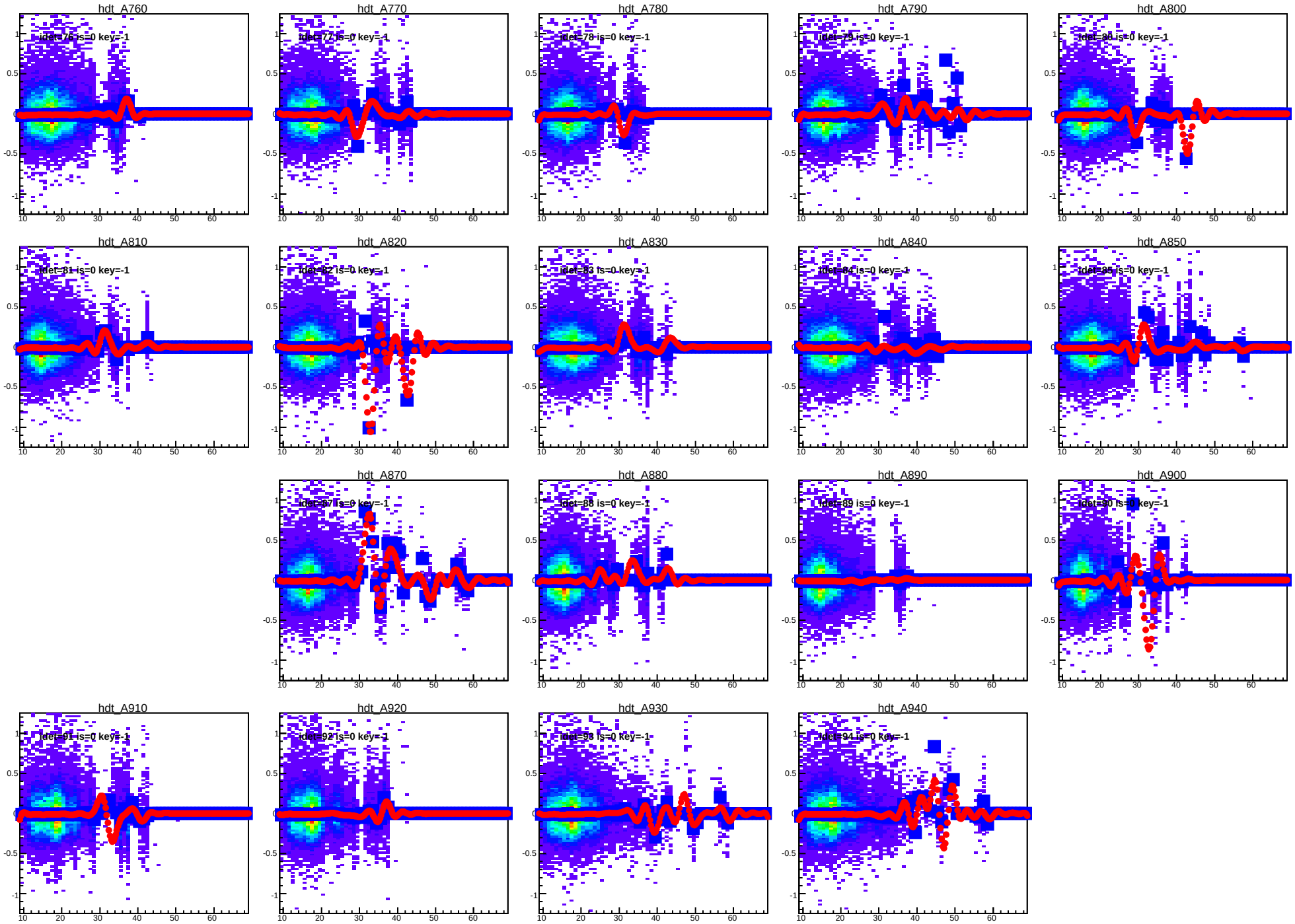
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hdt_A770
idet=77 is=0 key=-1
hdt_A780
idet=78 is=0 key=-1
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idet=79 is=0 key=-1
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idet=80 is=0 key=-1
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idet=81 is=0 key=-1
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idet=82 is=0 key=-1
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idet=89 is=0 key=-1
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idet=90 is=0 key=-1
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idet=91 is=0 key=-1
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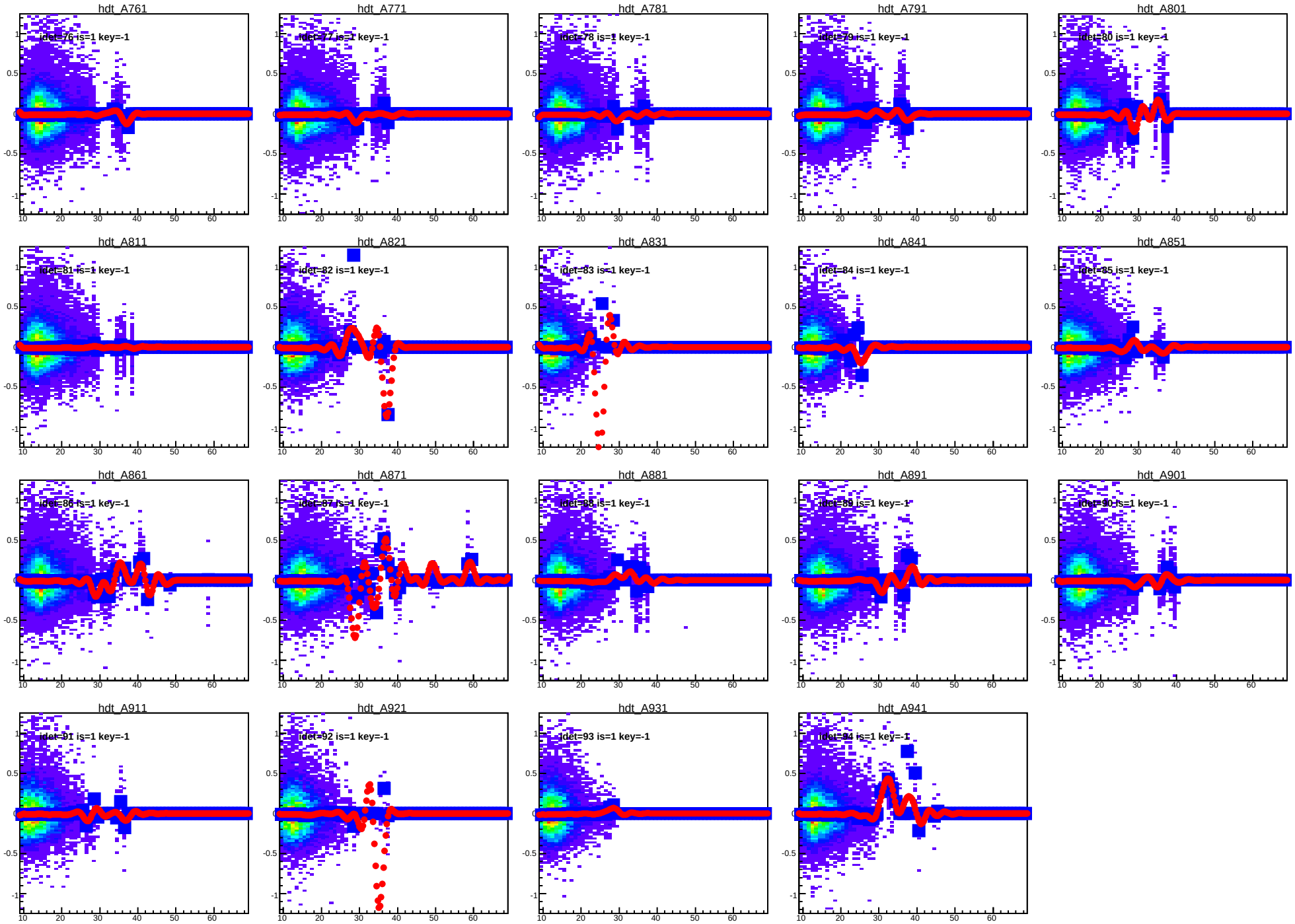
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hdt_A781
idet=78 is=1 key=-1
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hdt_A811
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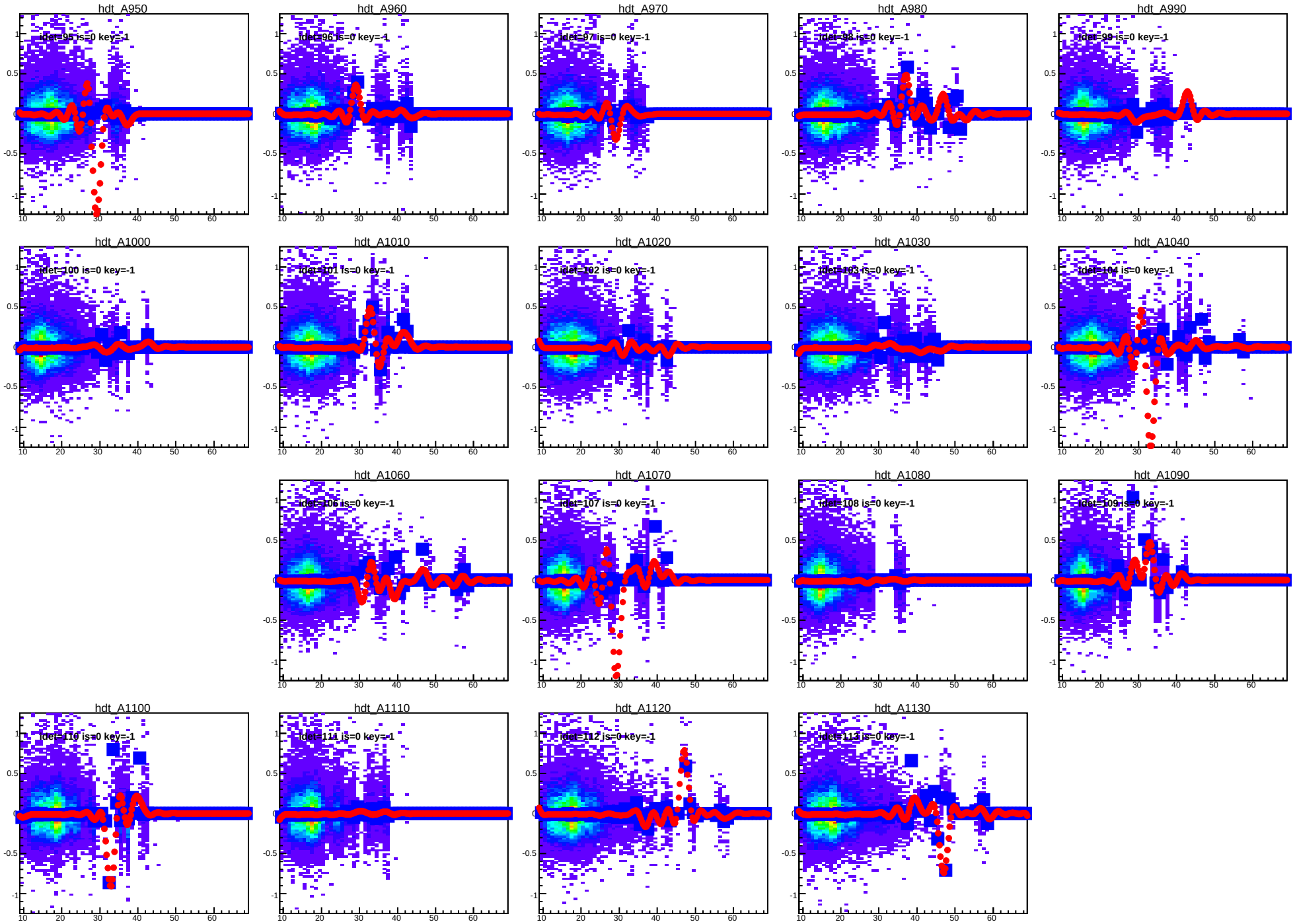
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idet=96 is=0 key=-1
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idet=97 is=0 key=-1
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idet=98 is=0 key=-1
hdt_A990
idet=99 is=0 key=-1
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idet=100 is=0 key=-1
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hdt_A1100
idet=110 is=0 key=-1
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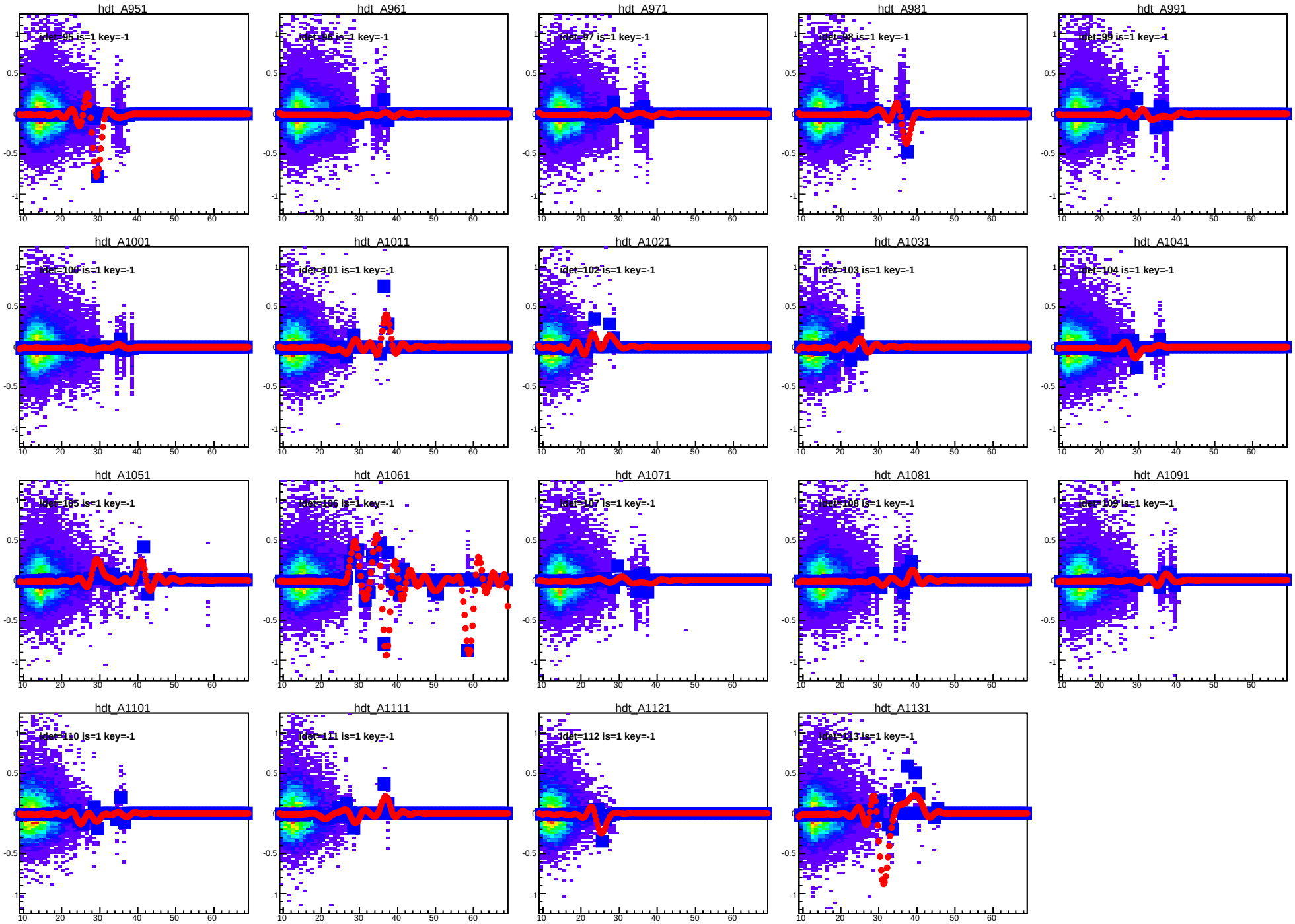
idet=113 is=0 key=-1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hdt_A971
idet=97 is=1 key=-1
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idet=98 is=1 key=-1
hdt_A991
idet=99 is=1 key=-1
hdt_A1001
idet=100 is=1 key=-1
hdt_A1011
idet=101 is=1 key=-1
hdt_A1021
idet=102 is=1 key=-1
hdt_A1031
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hdt_A1041
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hdt_A1051
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hdt_A1061
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hdt_A1071
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hdt_A1081
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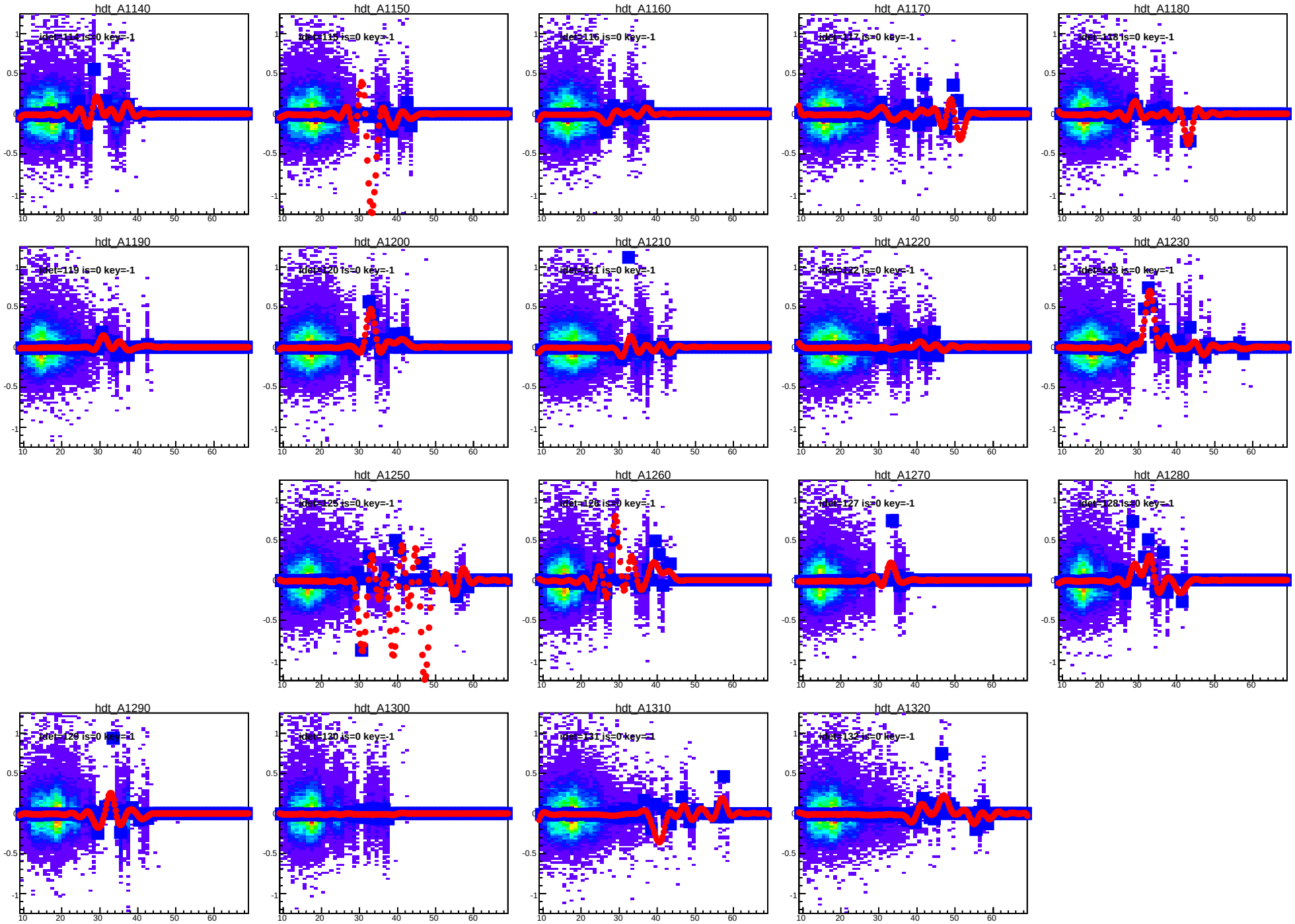
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hdt_A1200
idet=120 is=0 key=-1
hdt_A1210
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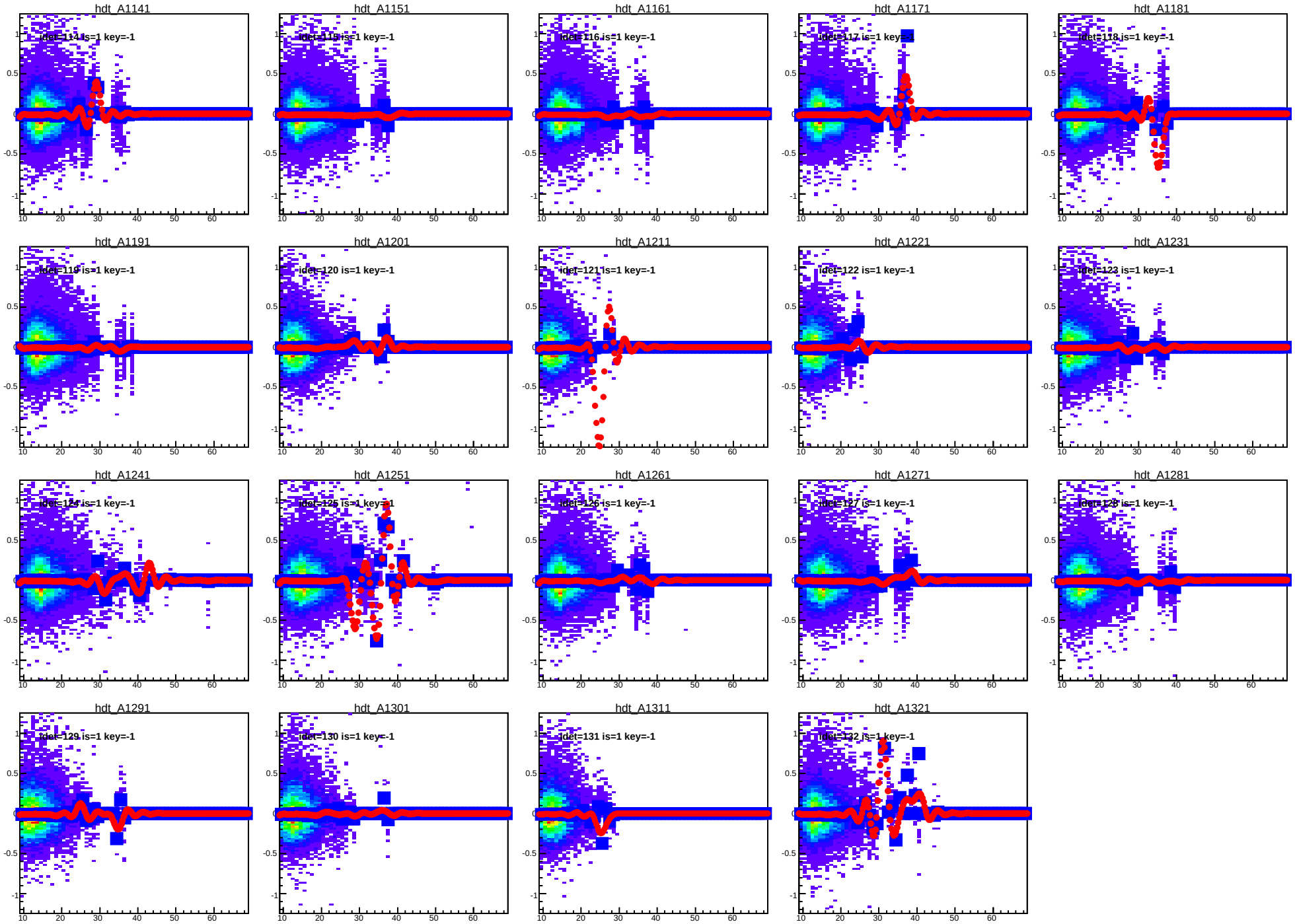
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hdt_A1201
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hdt_A1211
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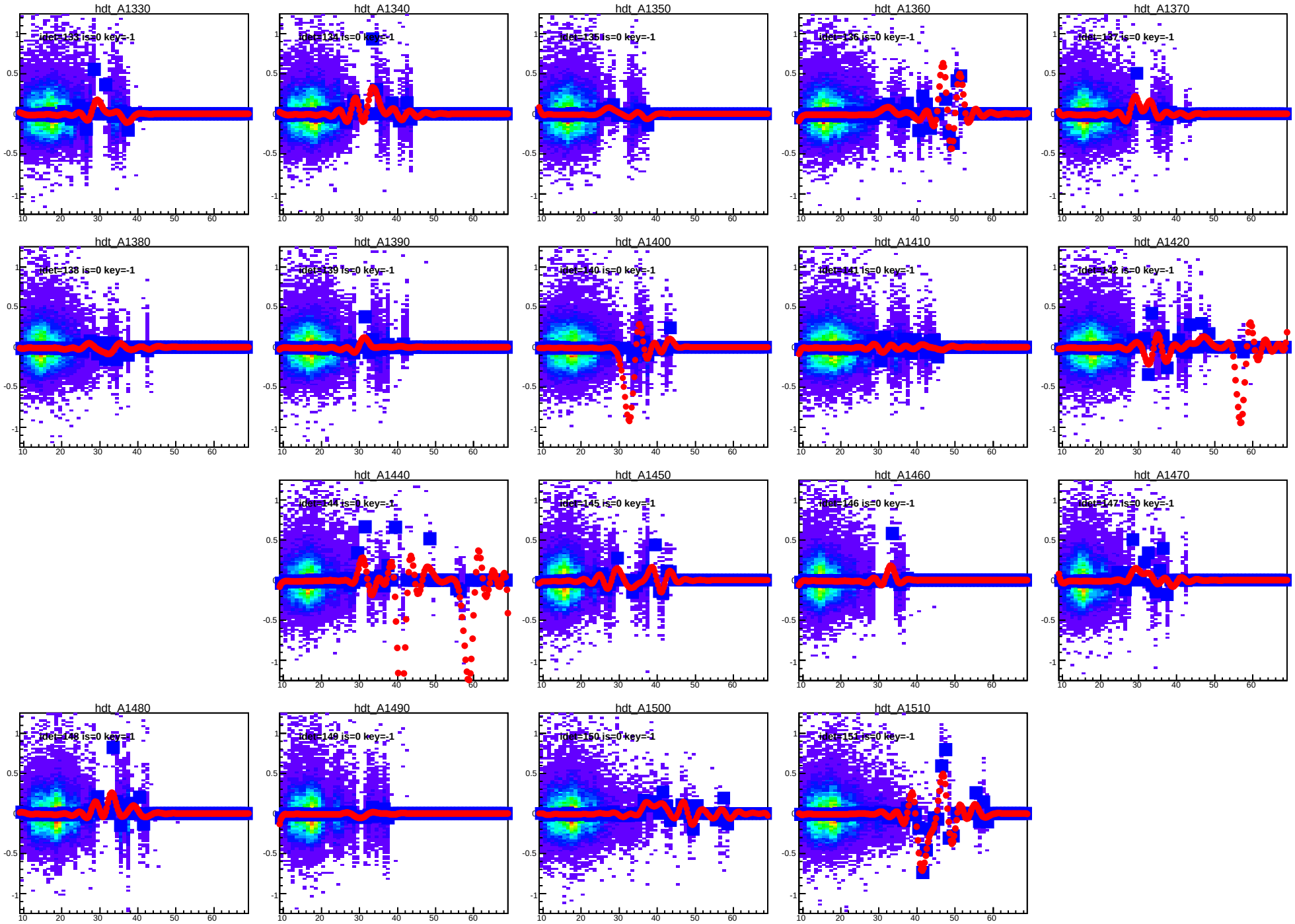
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hdt_A1380
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hdt_A1400
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hdt_A1480
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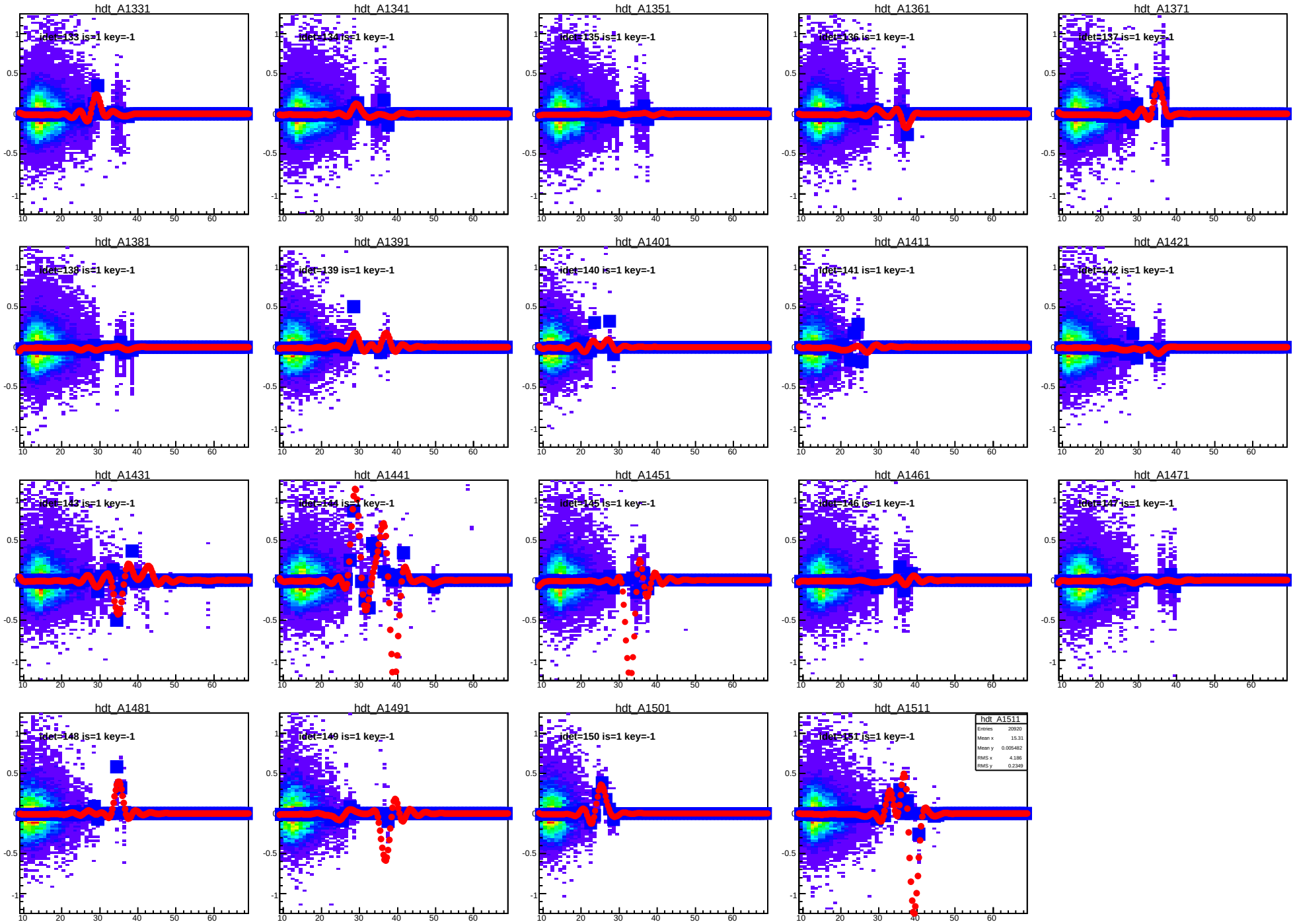
idet=151 is=0 key=-1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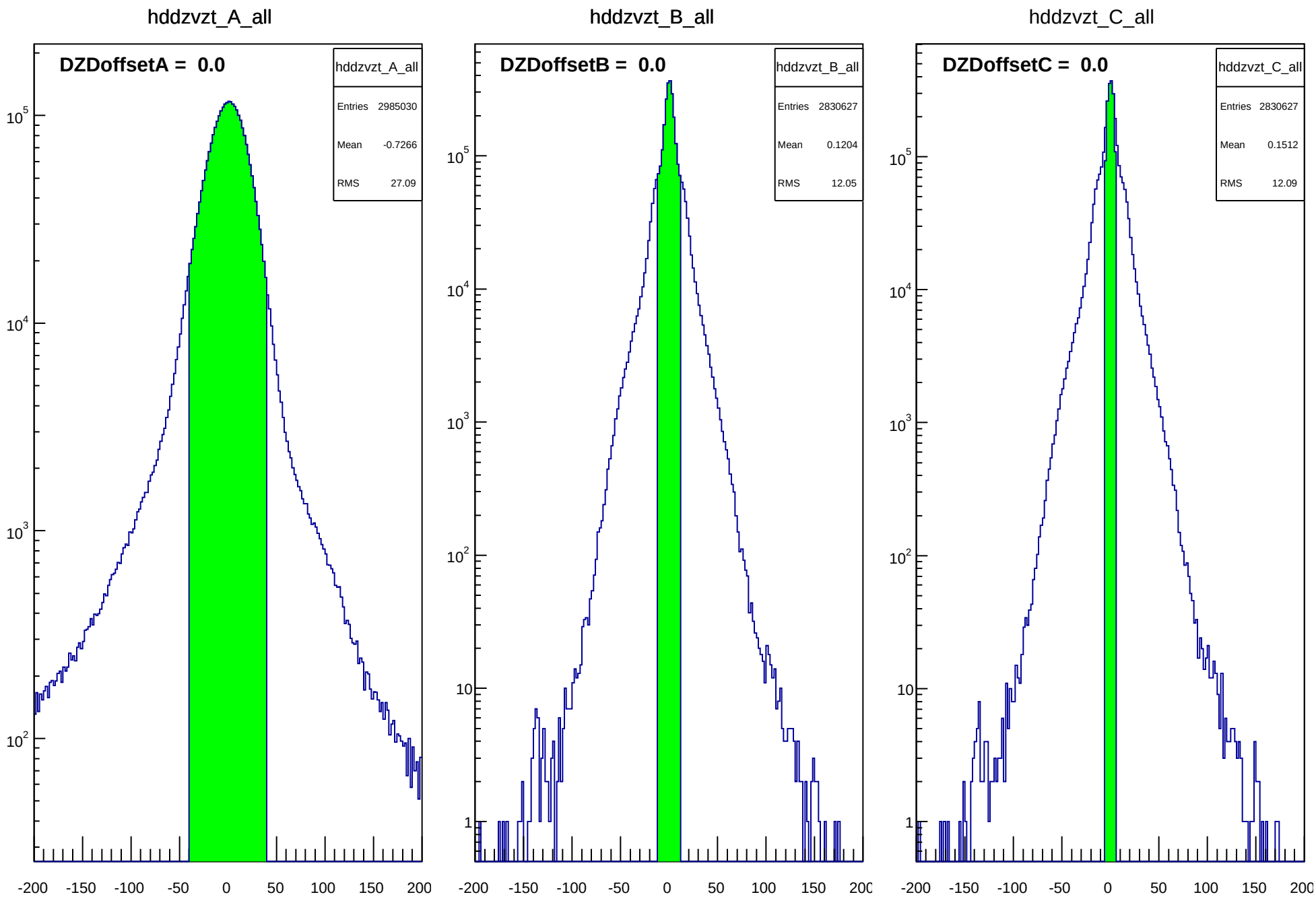
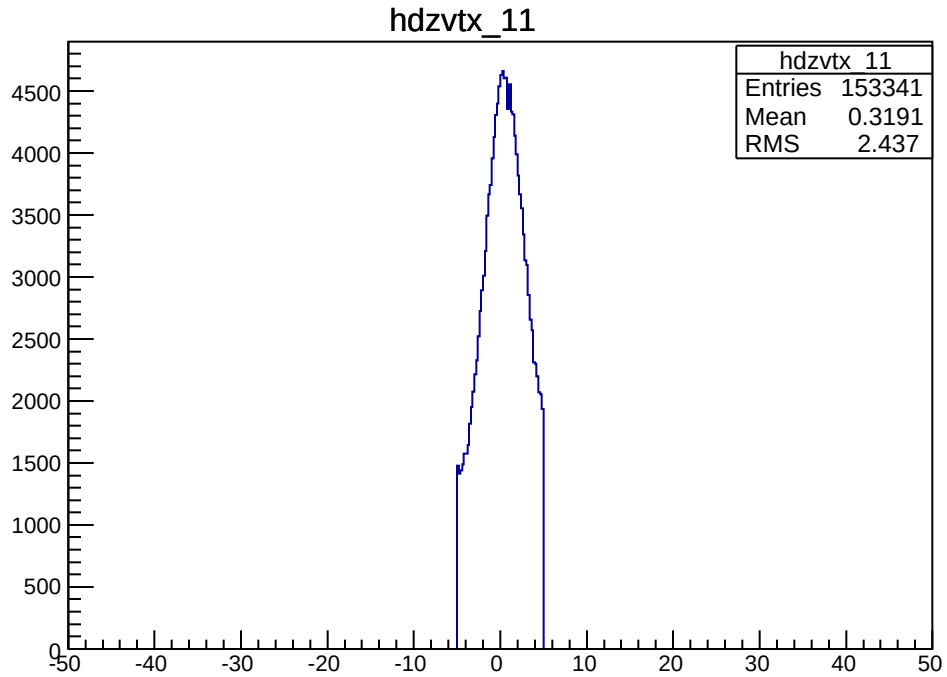
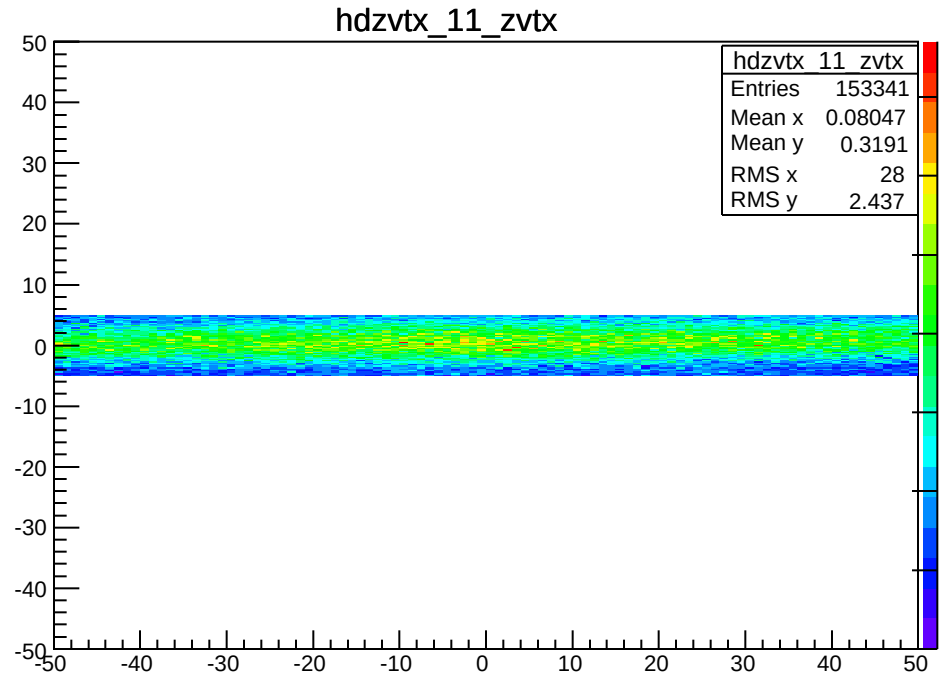
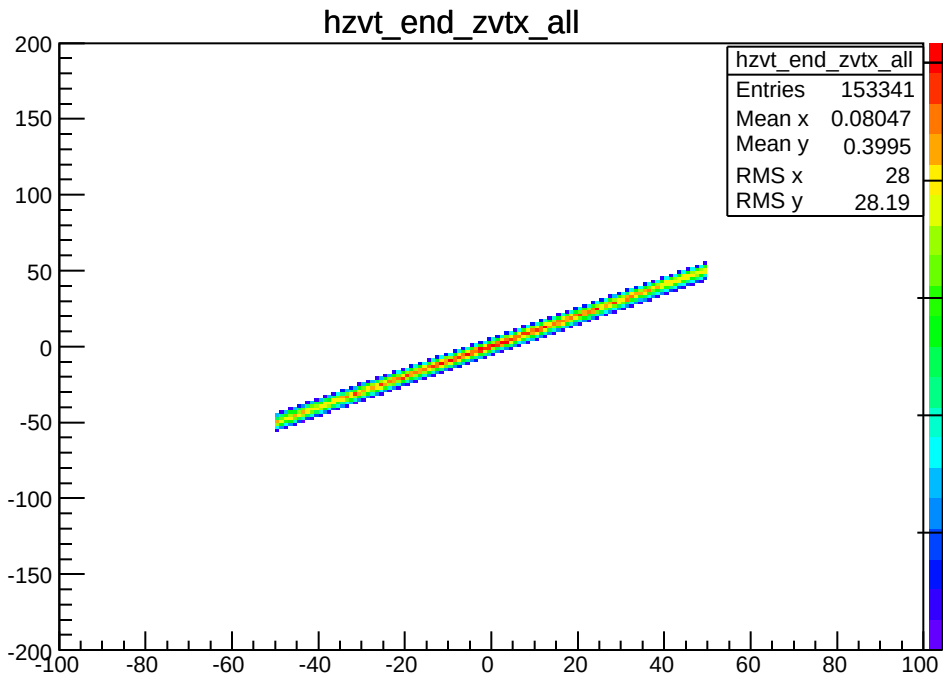
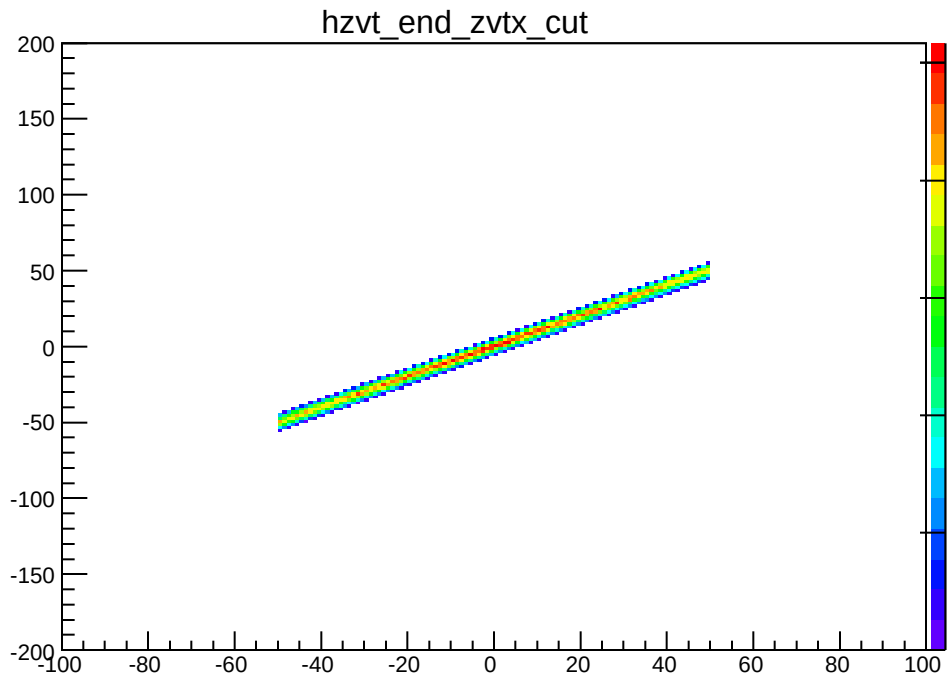
idet=136 is=1 key=-1
hdt_A1371
idet=137 is=1 key=-1
hdt_A1381
idet=138 is=1 key=-1
hdt_A1391
idet=139 is=1 key=-1
hdt_A1401
idet=140 is=1 key=-1
hdt_A1411
idet=141 is=1 key=-1
hdt_A1421
idet=142 is=1 key=-1
hdt_A1431
idet=143 is=1 key=-1
hdt_A1441
idet=144 is=1 key=-1
hdt_A1451
idet=145 is=1 key=-1
hdt_A1461
idet=146 is=1 key=-1
hdt_A1471
idet=147 is=1 key=-1
hdt_A1481
idet=148 is=1 key=-1
hdt_A1491
idet=149 is=1 key=-1
hdt_A1501
idet=150 is=1 key=-1
hdt_A1511
idet=151 is=1 key=-1
hdt_A1511
Entries 20920
Mean x 15.31
Mean y 0.005482
RMS x 4.186
RMS y 0.2349

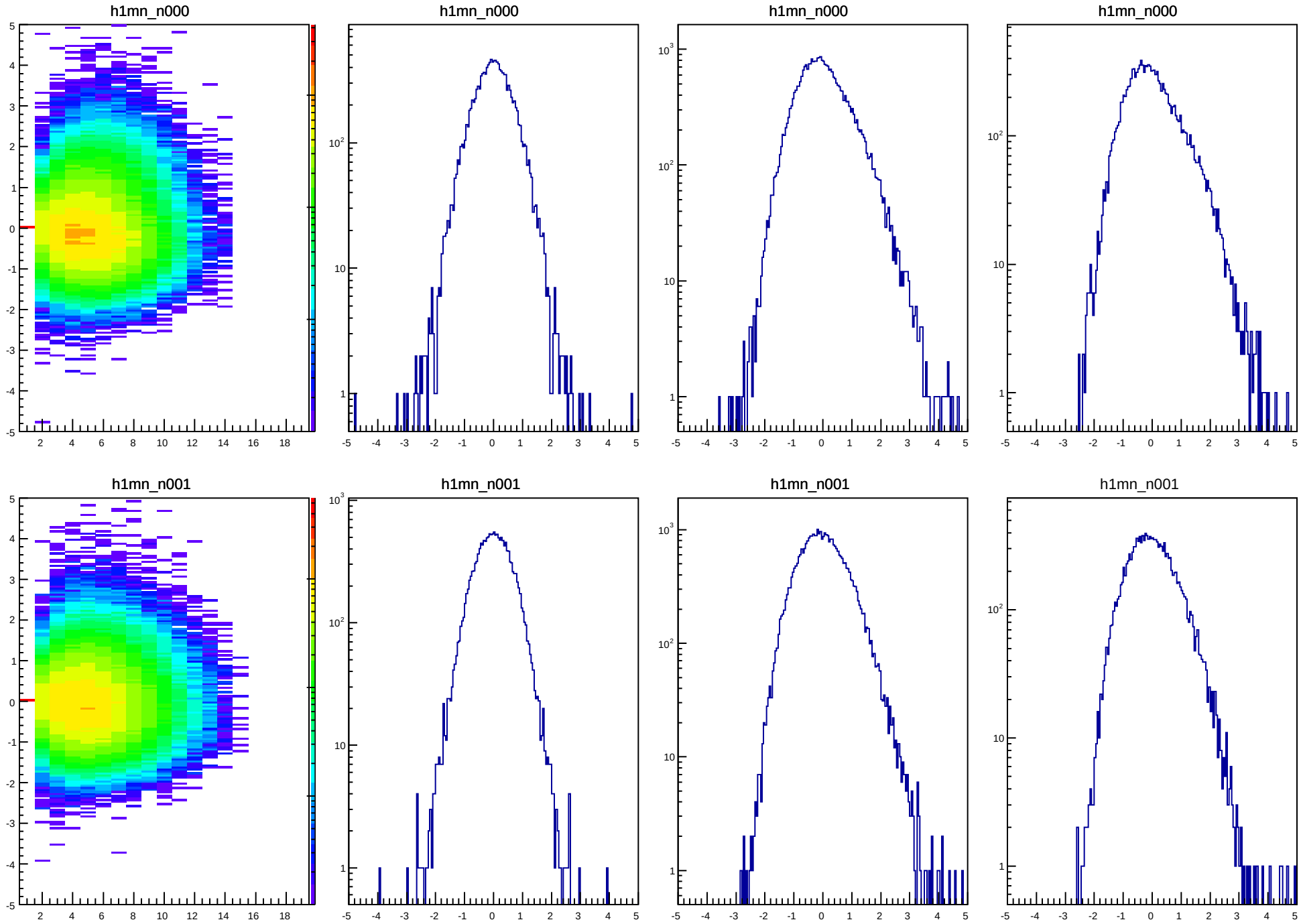

hddzvzt_A_all
DZDoffsetA = 0.0
hddzvzt_A_all
Entries 2985030
Mean -0.7266
RMS 27.09
hddzvzt_B_all
DZDoffsetB = 0.0
hddzvzt_B_all
Entries 2830627
Mean 0.1204
RMS 12.05
hddzvzt_C_all
DZDoffsetC = 0.0
hddzvzt_C_all
Entries 2830627
Mean 0.1512
RMS 12.09

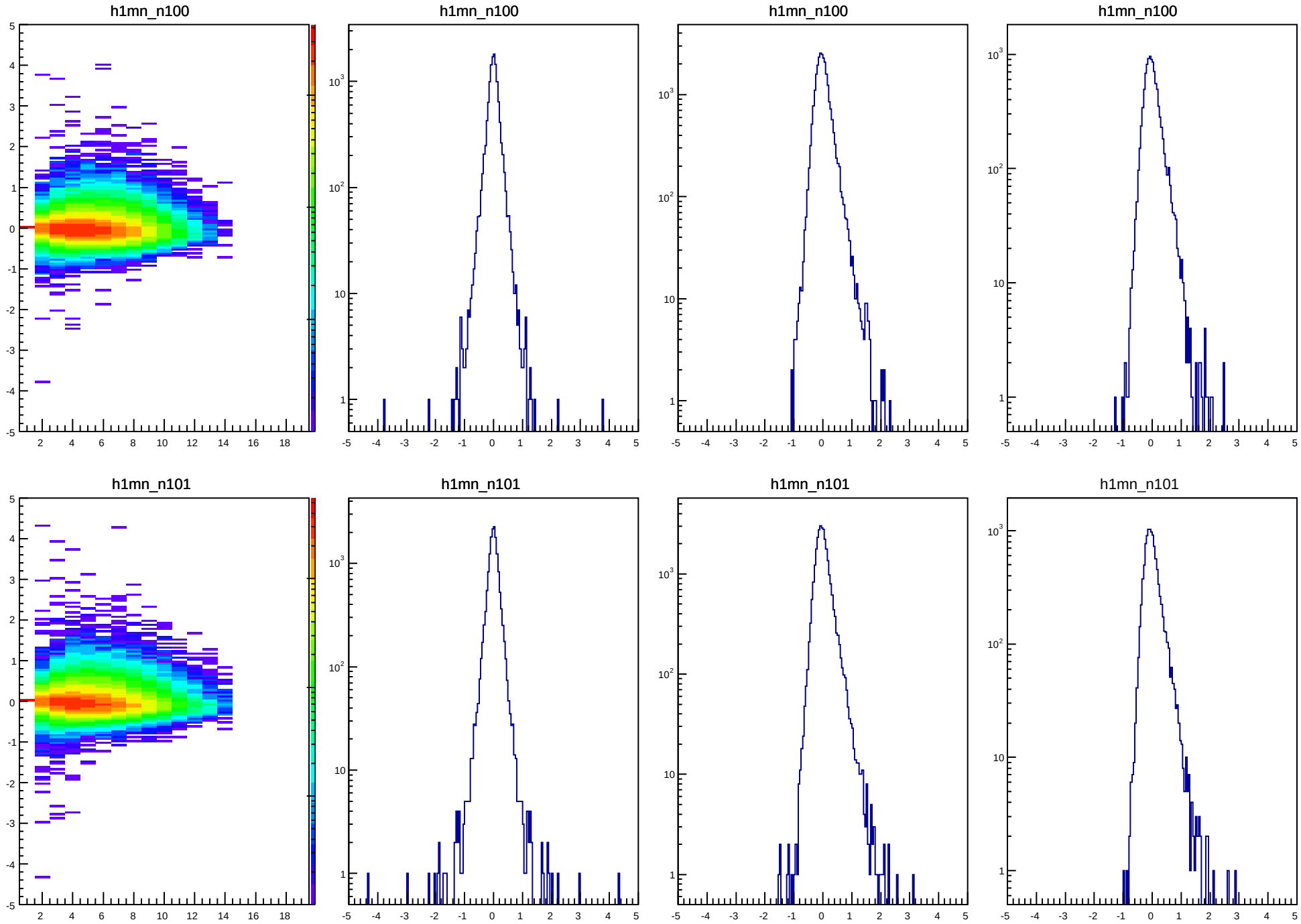

hdzvtx_11
hdzvtx_11
Entries 153341
Mean 0.3191
RMS 2.437

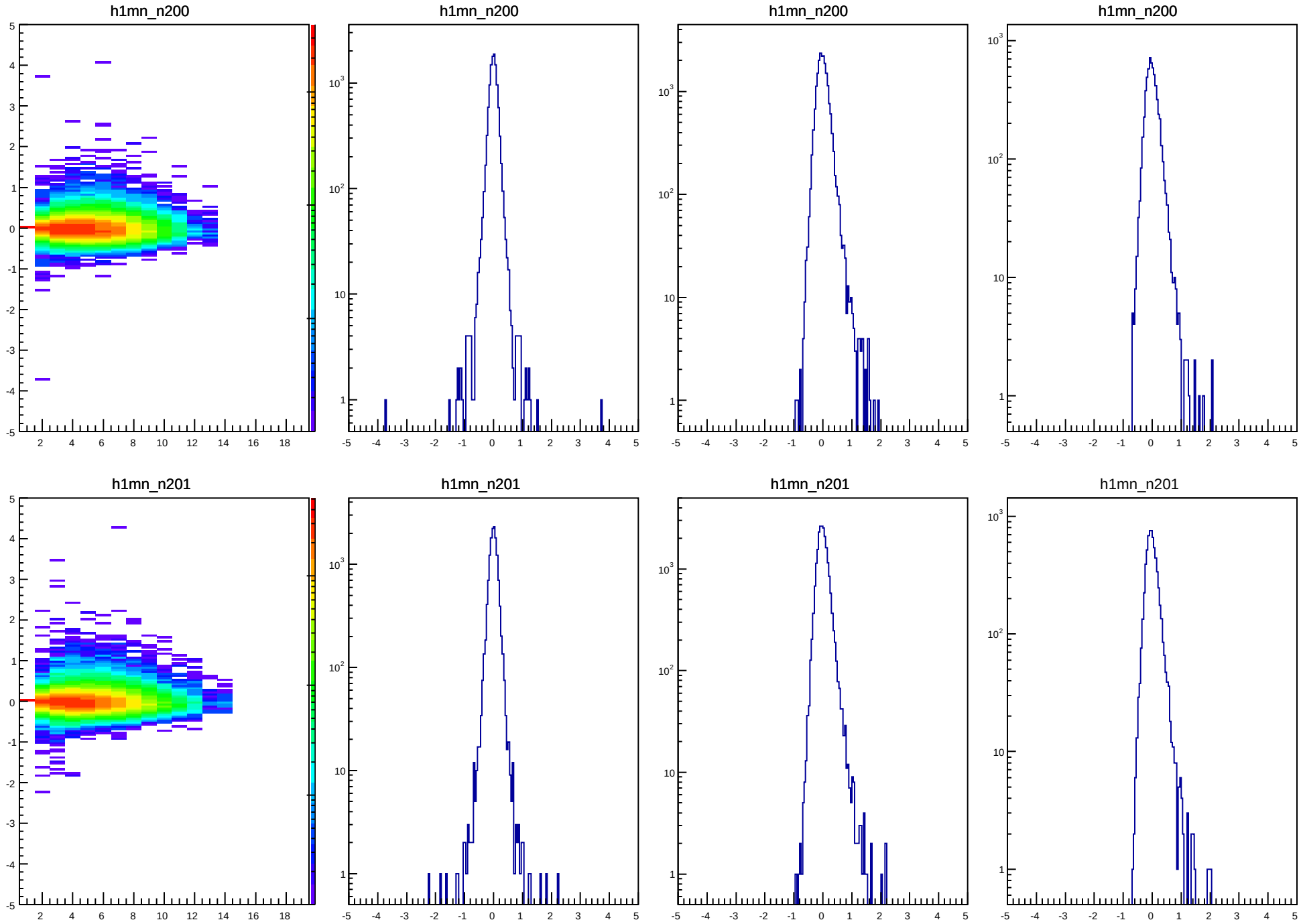

hdzvtx_11_zvtx
hdzvtx_11_zvtx
Entries 153341
Mean x 0.08047
Mean y 0.3191
RMS x 28
RMS y 2.437

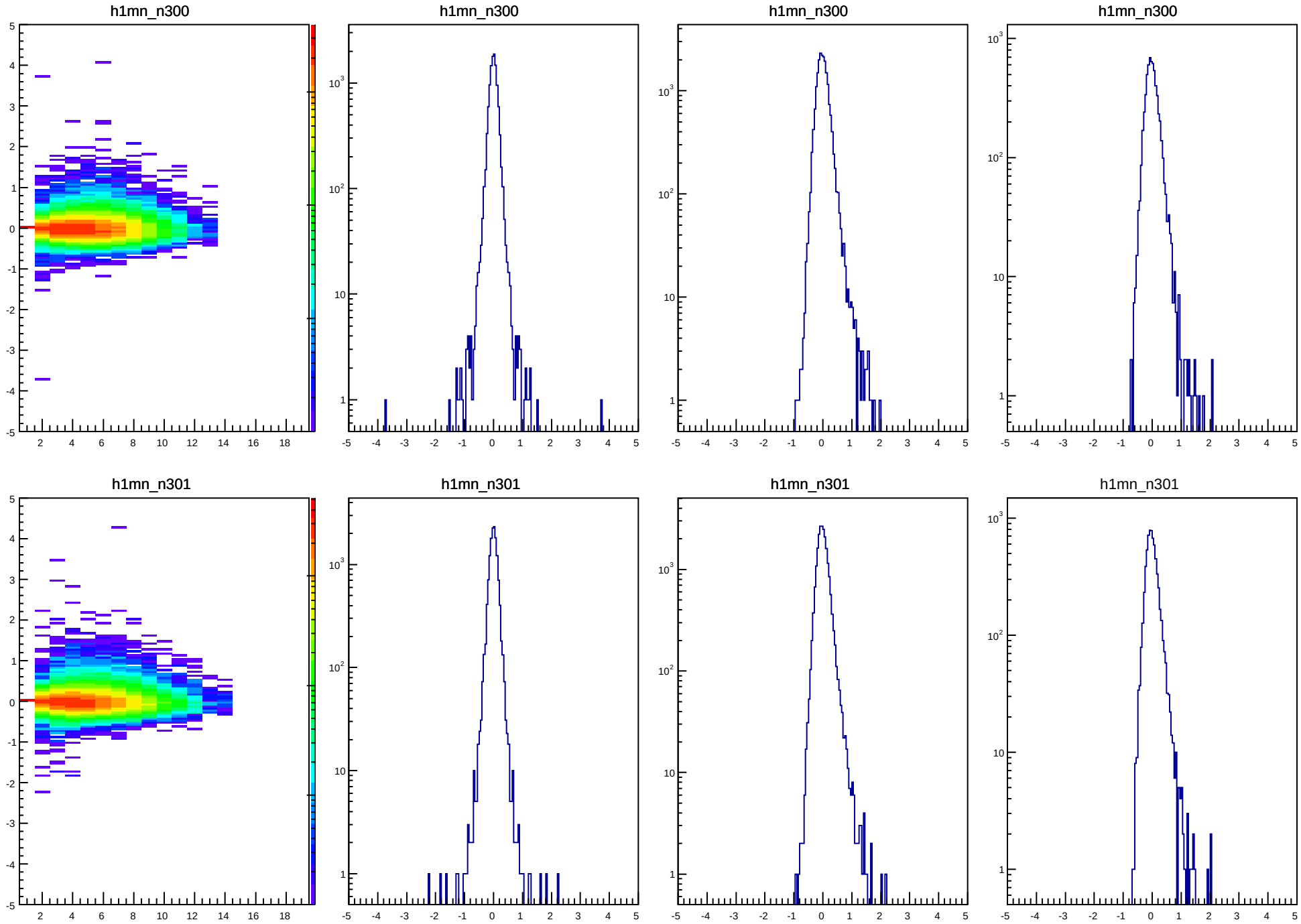

hzvt_end_zvtx_all
hzvt_end_zvtx_all
Entries 153341
Mean x 0.08047
Mean y 0.3995
RMS x 28
RMS y 28.19

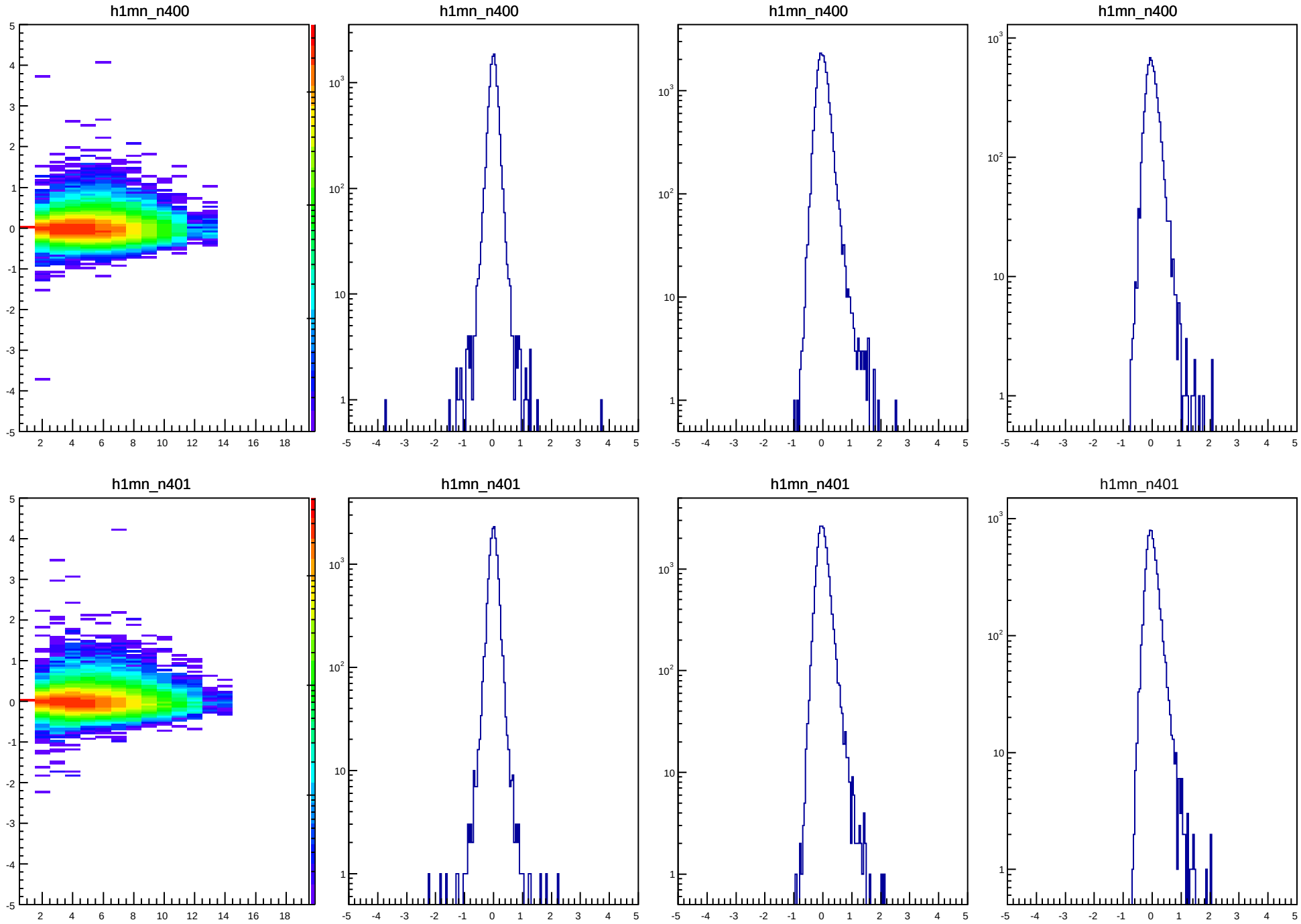

hzvt_end_zvtx_cut

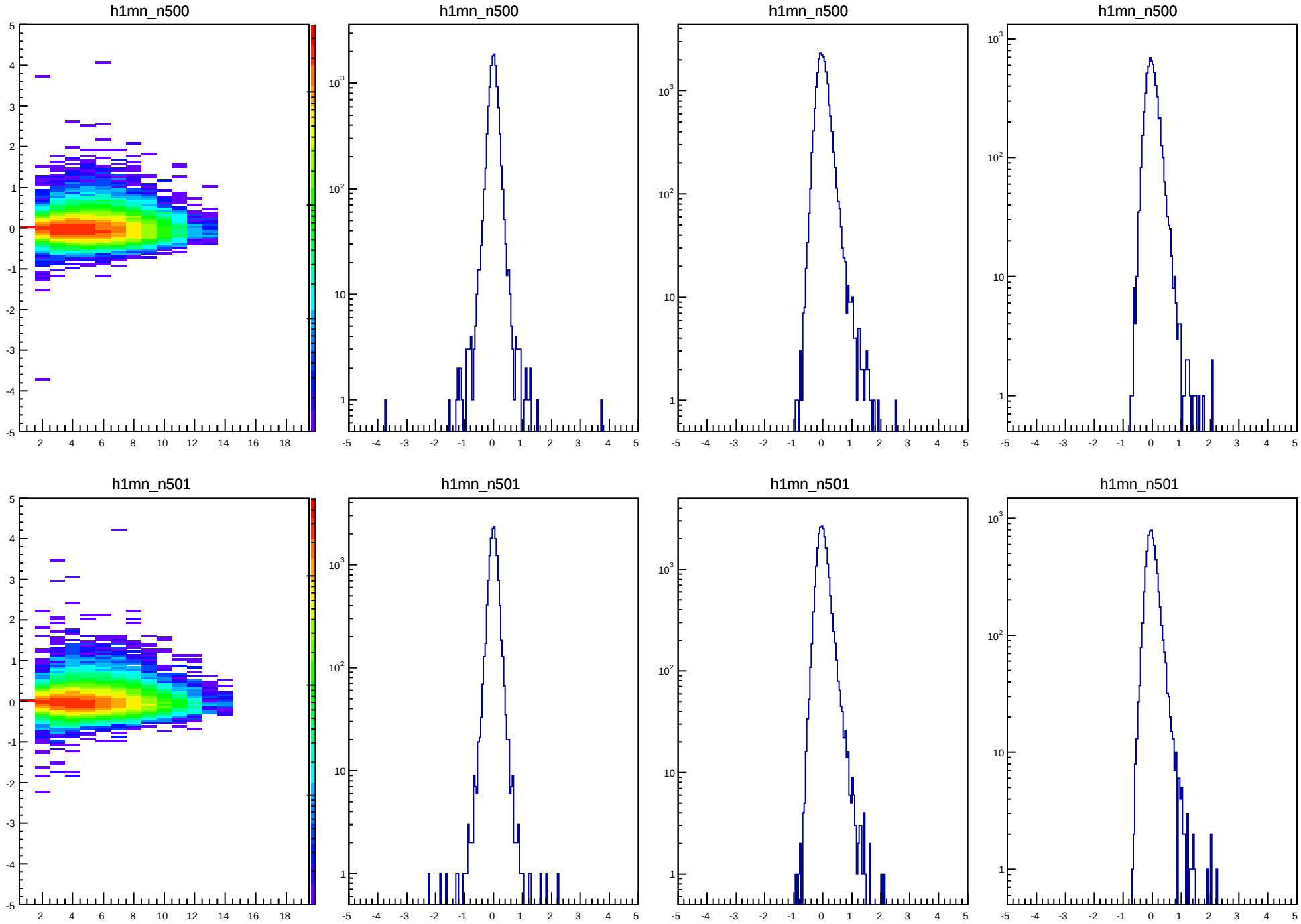

h1mn_n000
h1mn_n000
h1mn_n000
h1mn_n000
h1mn_n001
h1mn_n001
h1mn_n001
h1mn_n001

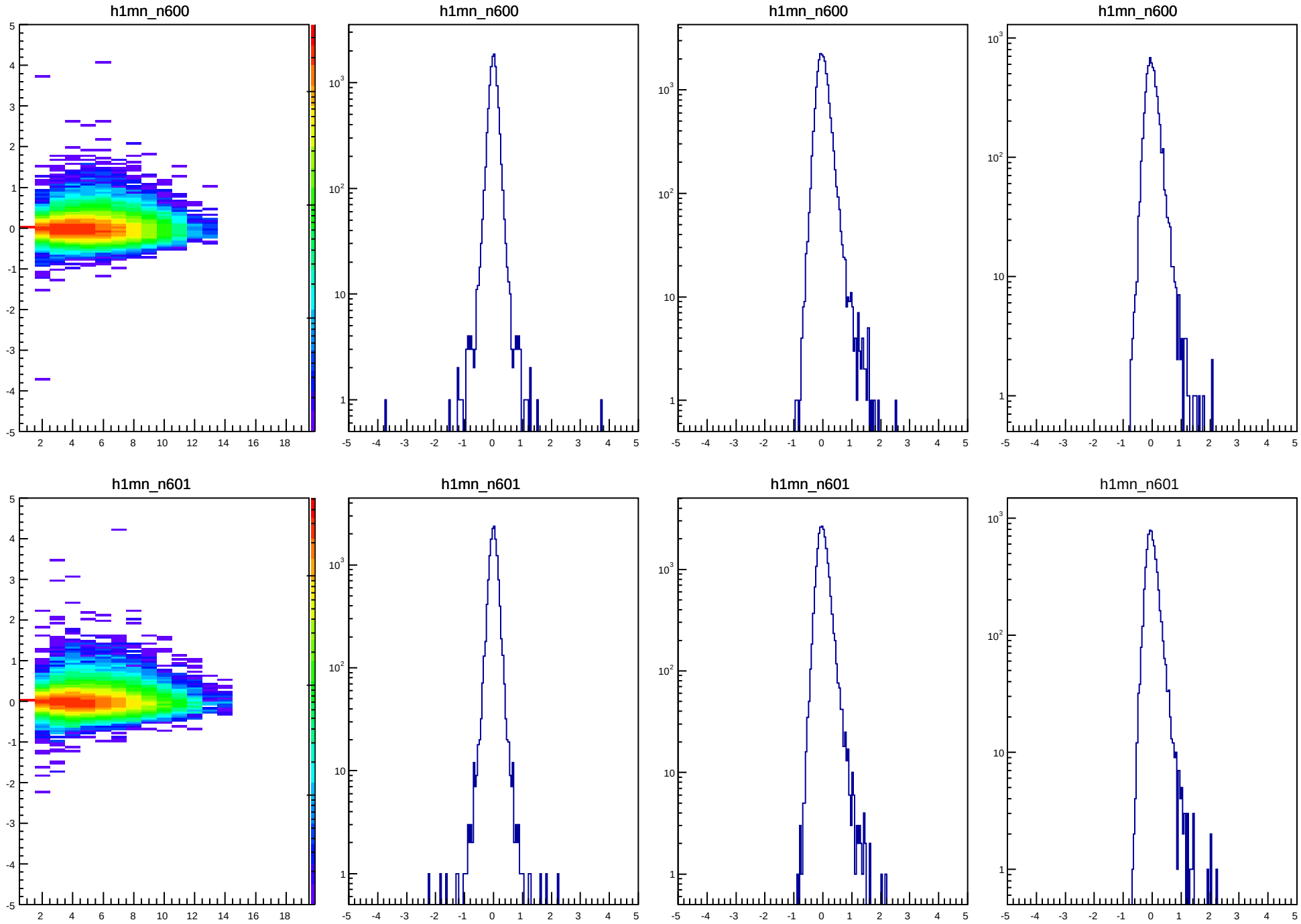

h1mn_n100
h1mn_n100
h1mn_n100
h1mn_n100
h1mn_n101
h1mn_n101
h1mn_n101
h1mn_n101

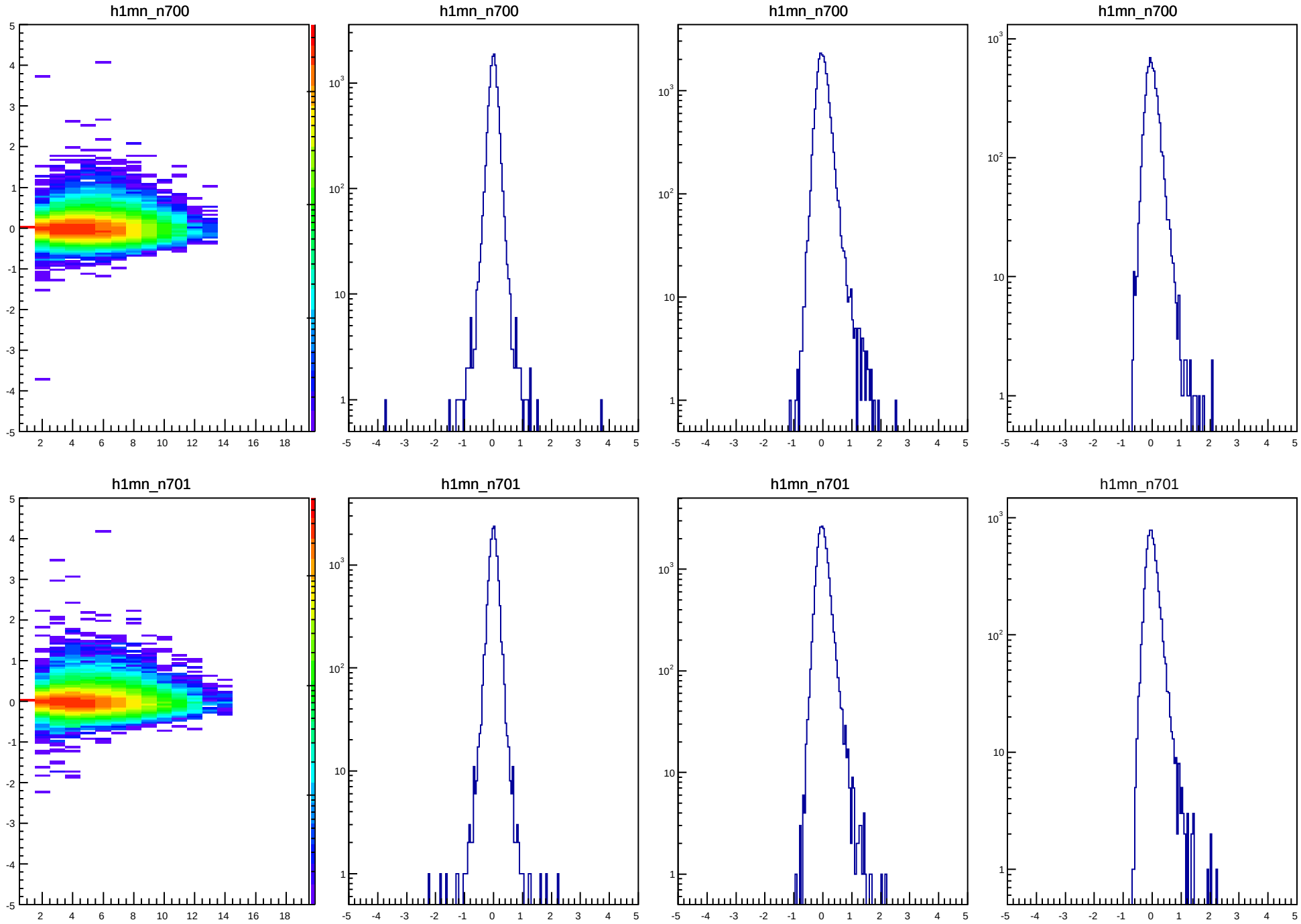

h1mn_n200
h1mn_n200
h1mn_n200
h1mn_n200
h1mn_n201
h1mn_n201
h1mn_n201
h1mn_n201

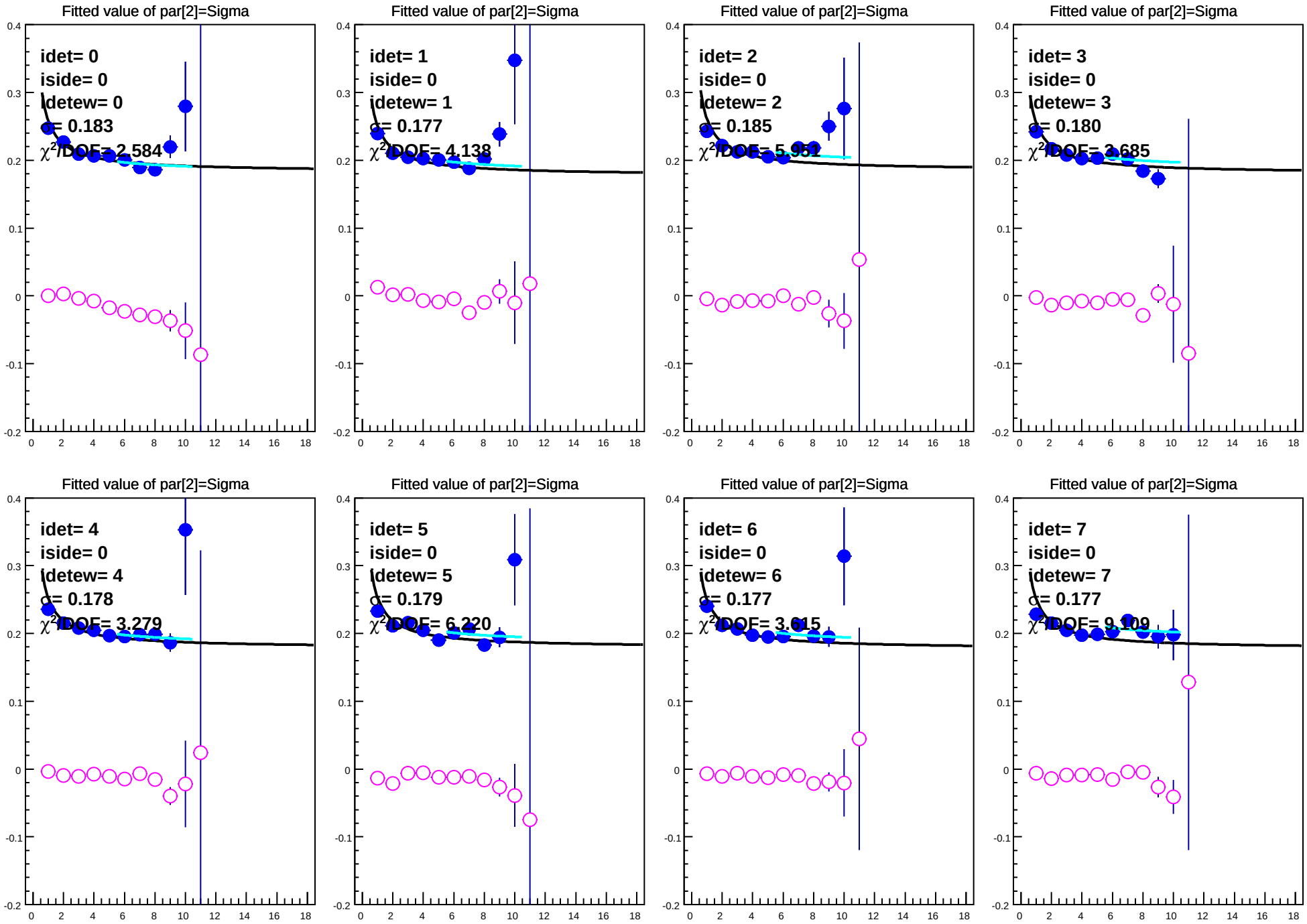

h1mn_n300
h1mn_n300
h1mn_n300
h1mn_n300
h1mn_n301
h1mn_n301
h1mn_n301
h1mn_n301

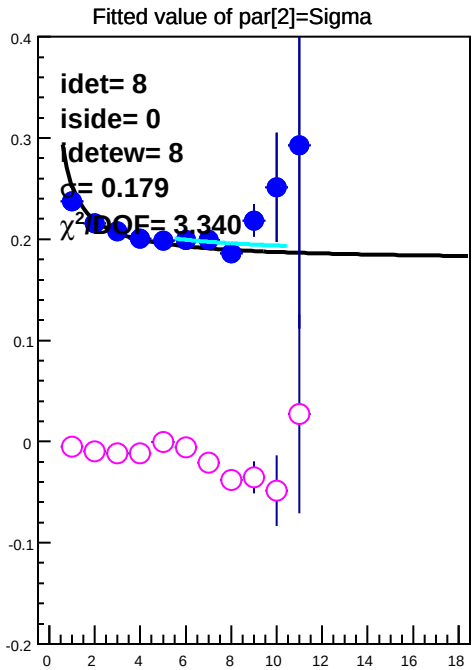

h1mn_n400
h1mn_n400
h1mn_n400
h1mn_n400
h1mn_n401
h1mn_n401
h1mn_n401
h1mn_n401

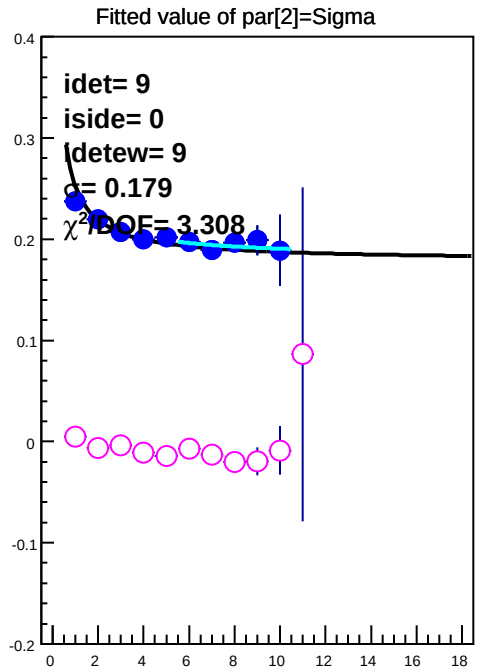

h1mn_n500
h1mn_n500
h1mn_n500
h1mn_n500
h1mn_n501
h1mn_n501
h1mn_n501
h1mn_n501

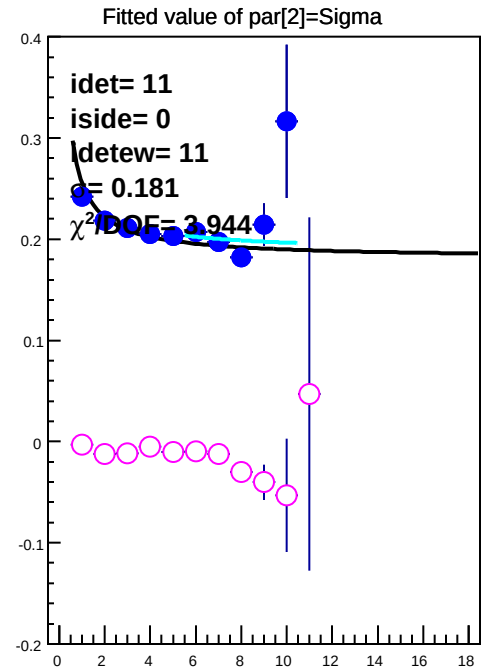

h1mn_n600
h1mn_n600
h1mn_n600
h1mn_n600
h1mn_n601
h1mn_n601
h1mn_n601
h1mn_n601

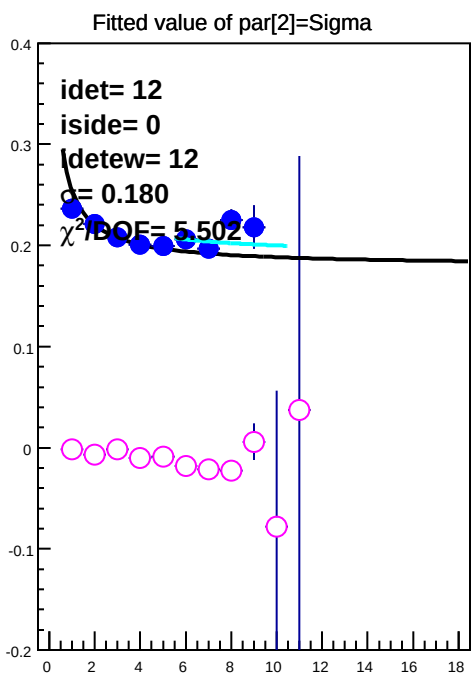

h1mn_n700
h1mn_n700
h1mn_n700
h1mn_n700
h1mn_n701
h1mn_n701
h1mn_n701
h1mn_n701

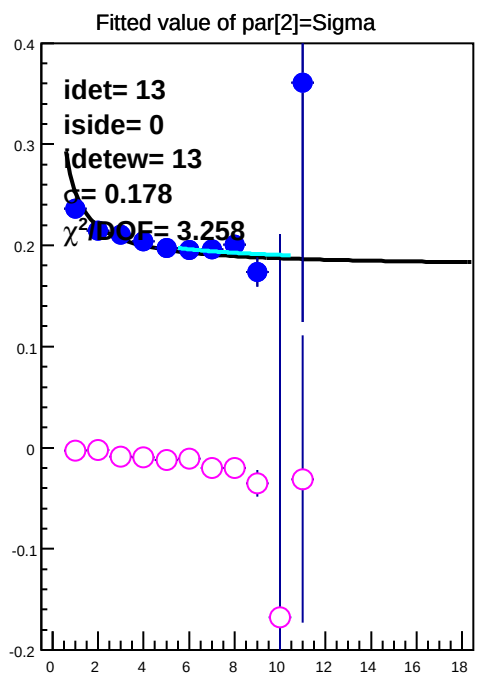

Fitted value of par[2]=Sigma
idet= 0
iside= 0
idetew= 0
σ= 0.183
χ²/DOF= 2.584
Fitted value of par[2]=Sigma
idet= 1
iside= 0
idetew= 1
σ= 0.177
χ²/DOF= 4.138
Fitted value of par[2]=Sigma
idet= 2
iside= 0
idetew= 2
σ= 0.185
χ²/DOF= 5.952
Fitted value of par[2]=Sigma
idet= 3
iside= 0
idetew= 3
σ= 0.180
χ²/DOF= 3.685
Fitted value of par[2]=Sigma
idet= 4
iside= 0
idetew= 4
σ= 0.178
χ²/DOF= 3.279
Fitted value of par[2]=Sigma
idet= 5
iside= 0
idetew= 5
σ= 0.179
χ²/DOF= 6.220
Fitted value of par[2]=Sigma
idet= 6
iside= 0
idetew= 6
σ= 0.177
χ²/DOF= 3.615
Fitted value of par[2]=Sigma
idet= 7
iside= 0
idetew= 7
σ= 0.177
χ²/DOF= 9.109

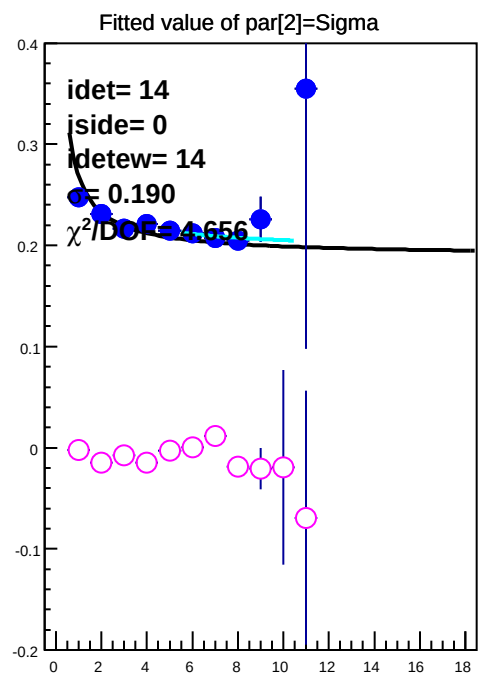

Fitted value of par[2]=Sigma
idet= 8
iside= 0
idetew= 8
σ= 0.179
χ²/DOF= 3.340

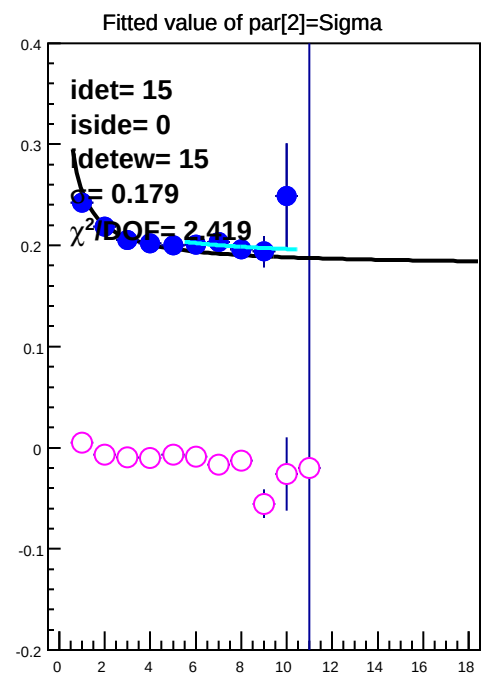

Fitted value of par[2]=Sigma
idet= 9
iside= 0
idetew= 9
σ= 0.179
χ²/DOF= 3.308

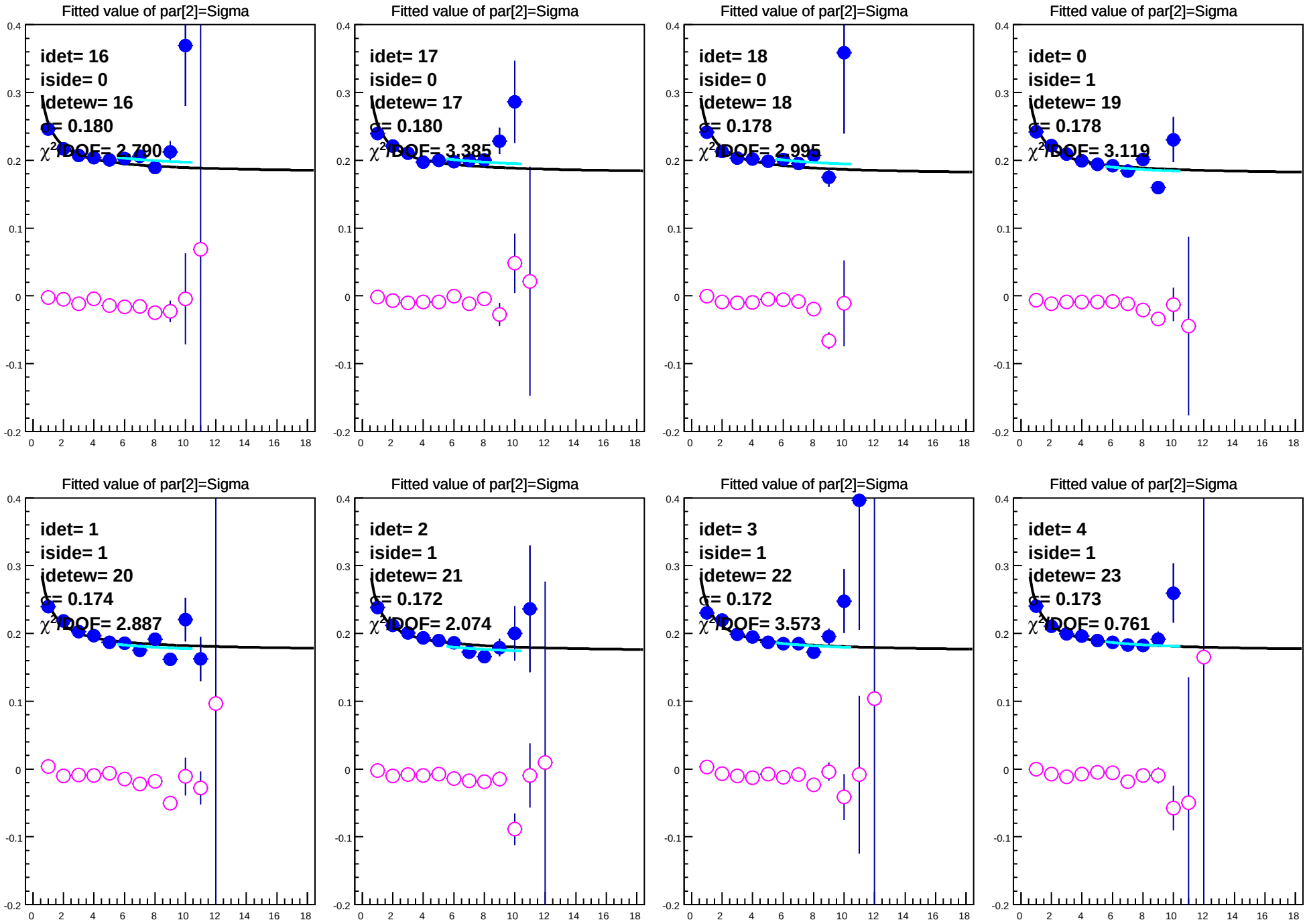

Fitted value of par[2]=Sigma
idet= 11
iside= 0
idetew= 11
σ= 0.181
χ²/DOF= 3.944

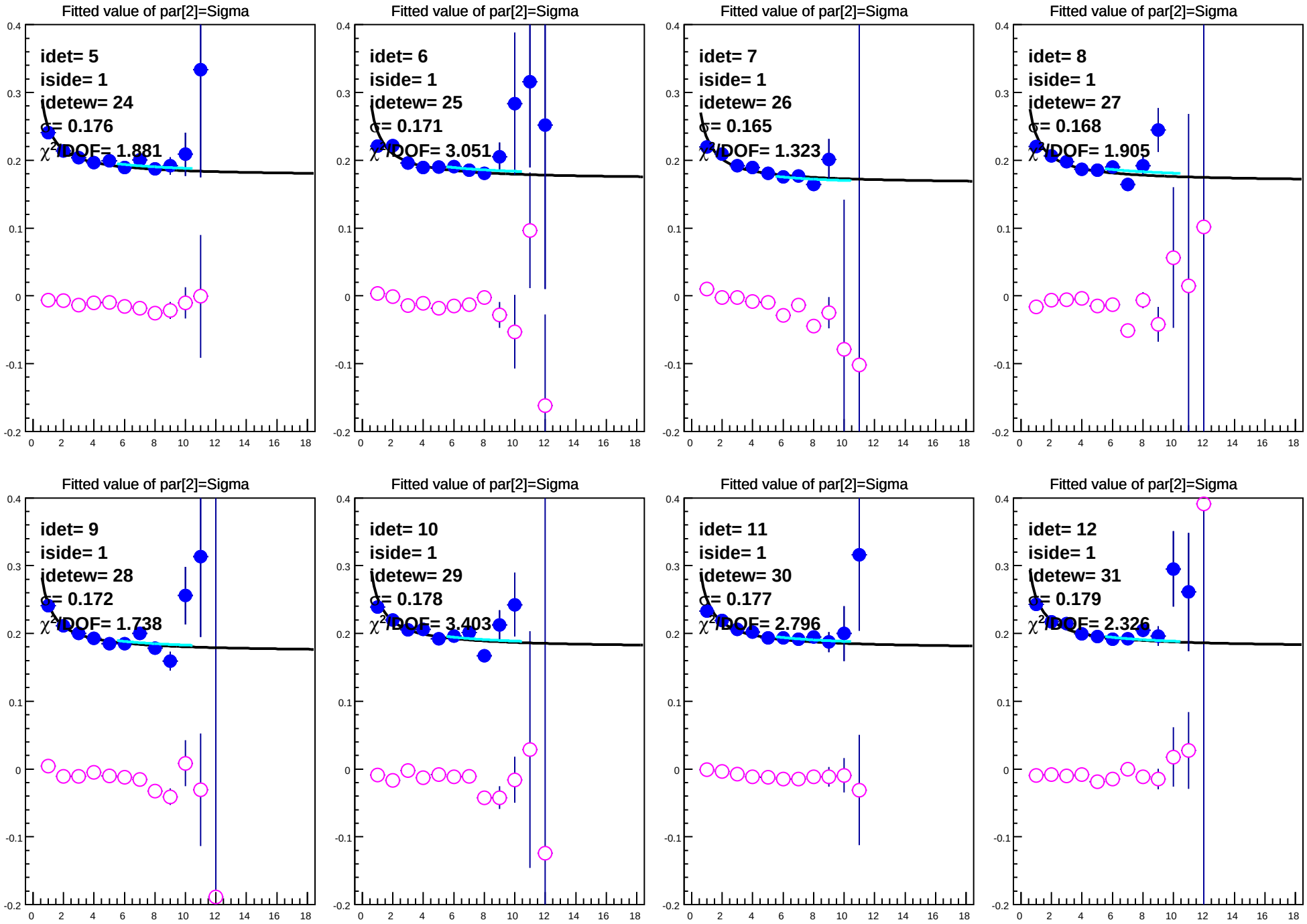

Fitted value of par[2]=Sigma
idet= 12
iside= 0
idetew= 12
σ= 0.180
χ²/DOF= 5.502

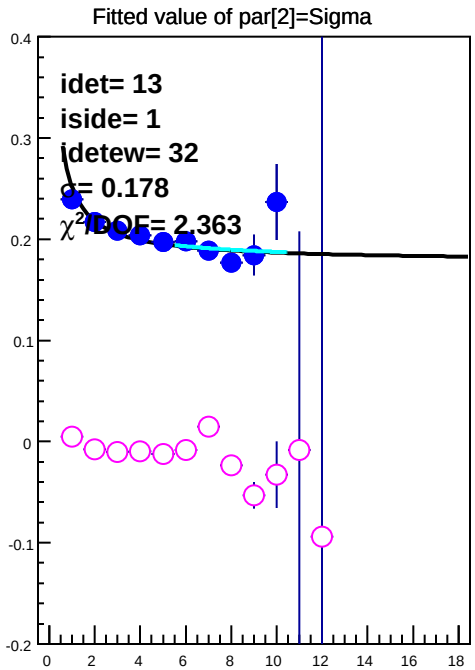

Fitted value of par[2]=Sigma
idet= 13
iside= 0
idetew= 13
σ= 0.178
χ²/DOF= 3.258

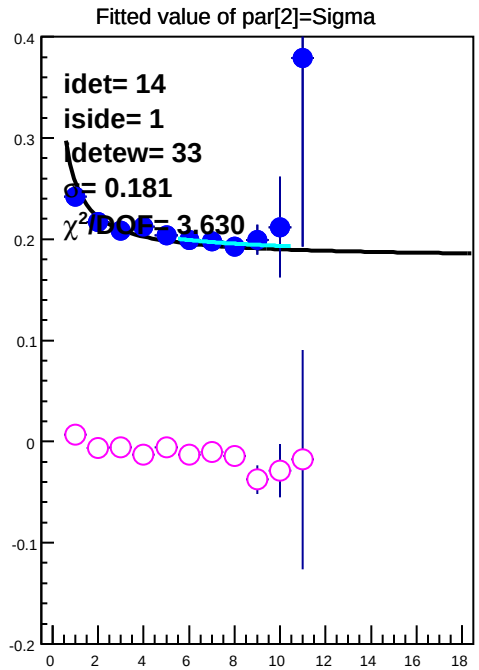

Fitted value of par[2]=Sigma
idet= 14
iside= 0
idetew= 14
σ= 0.190
χ²/DOF= 4.656

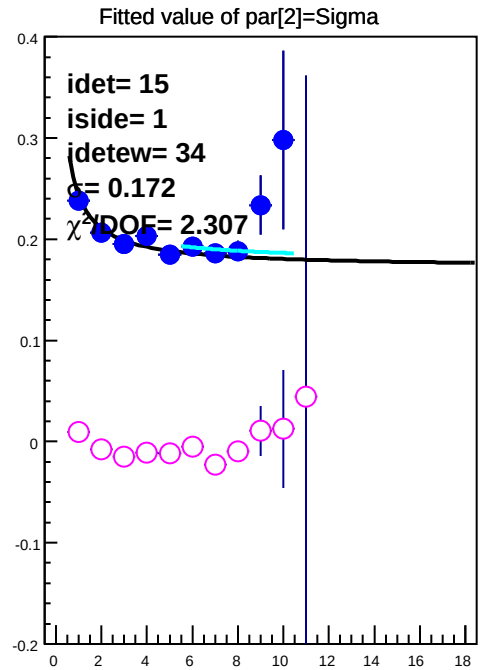

Fitted value of par[2]=Sigma
idet= 15
iside= 0
idetew= 15
σ= 0.179
χ²/DOF= 2.419

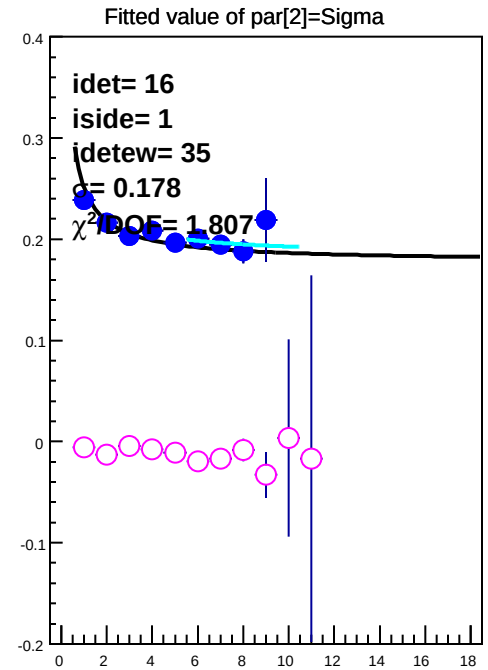

Fitted value of par[2]=Sigma
idet= 16
iside= 0
idetew= 16
σ= 0.180
χ²/DOF= 2.790
Fitted value of par[2]=Sigma
idet= 17
iside= 0
idetew= 17
σ= 0.180
χ²/DOF= 3.385
Fitted value of par[2]=Sigma
idet= 18
iside= 0
idetew= 18
σ= 0.178
χ²/DOF= 2.995
Fitted value of par[2]=Sigma
idet= 0
iside= 1
idetew= 19
σ= 0.178
χ²/DOF= 3.119
Fitted value of par[2]=Sigma
idet= 1
iside= 1
idetew= 20
σ= 0.174
χ²/DOF= 2.887
Fitted value of par[2]=Sigma
idet= 2
iside= 1
idetew= 21
σ= 0.172
χ²/DOF= 2.074
Fitted value of par[2]=Sigma
idet= 3
iside= 1
idetew= 22
σ= 0.172
χ²/DOF= 3.573
Fitted value of par[2]=Sigma
idet= 4
iside= 1
idetew= 23
σ= 0.173
χ²/DOF= 0.761

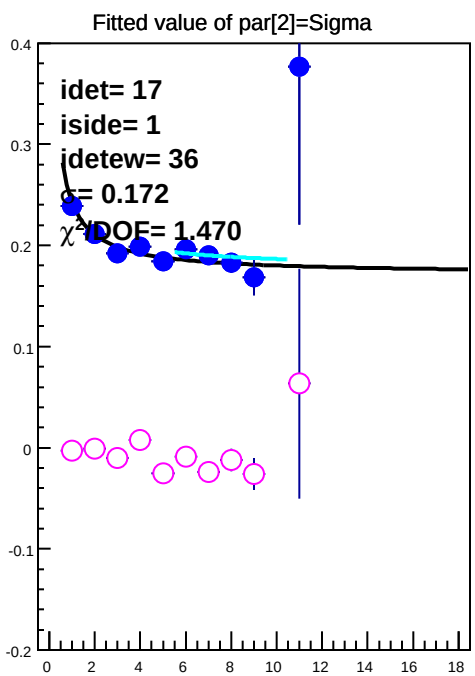

Fitted value of par[2]=Sigma
idet= 5
iside= 1
idetew= 24
σ= 0.176
χ²/DOF= 1.881
Fitted value of par[2]=Sigma
idet= 6
iside= 1
idetew= 25
σ= 0.171
χ²/DOF= 3.051
Fitted value of par[2]=Sigma
idet= 7
iside= 1
idetew= 26
σ= 0.165
χ²/DOF= 1.323
Fitted value of par[2]=Sigma
idet= 8
iside= 1
idetew= 27
σ= 0.168
χ²/DOF= 1.905
Fitted value of par[2]=Sigma
idet= 9
iside= 1
idetew= 28
σ= 0.172
χ²/DOF= 1.738
Fitted value of par[2]=Sigma
idet= 10
iside= 1
idetew= 29
σ= 0.178
χ²/DOF= 3.403
Fitted value of par[2]=Sigma
idet= 11
iside= 1
idetew= 30
σ= 0.177
χ²/DOF= 2.796
Fitted value of par[2]=Sigma
idet= 12
iside= 1
idetew= 31
σ= 0.179
χ²/DOF= 2.326

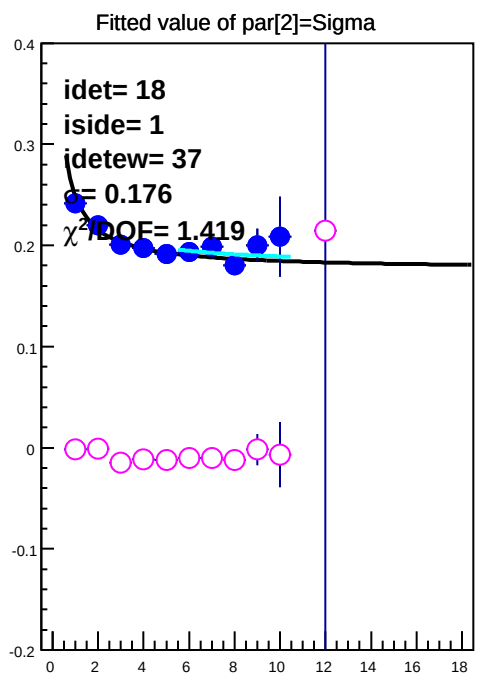

Fitted value of par[2]=Sigma
idet= 13
iside= 1
idetew= 32
σ= 0.178
χ²/DOF= 2.363

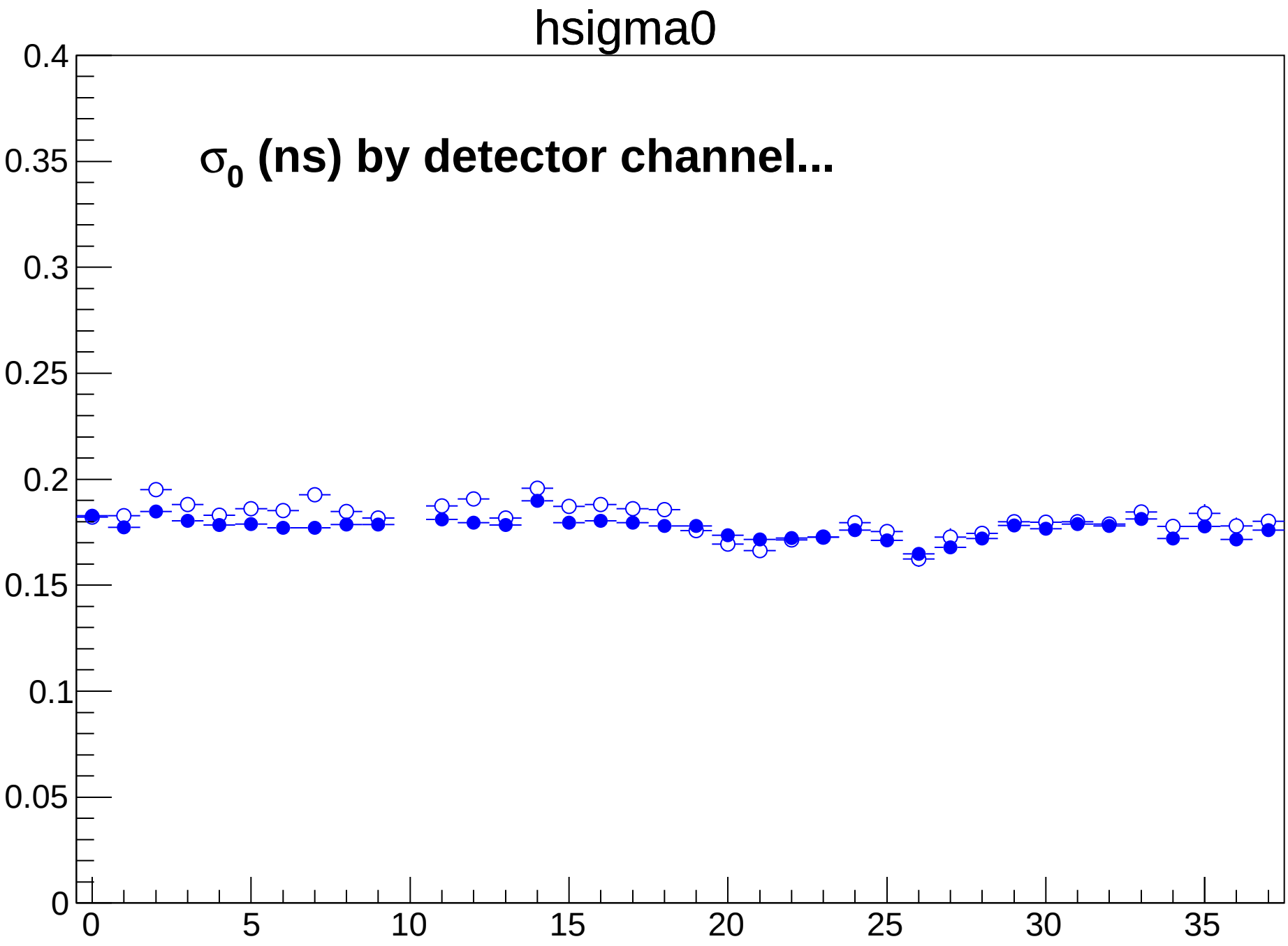

Fitted value of par[2]=Sigma
idet= 14
iside= 1
idetew= 33
σ= 0.181
χ²/DOF= 3.630

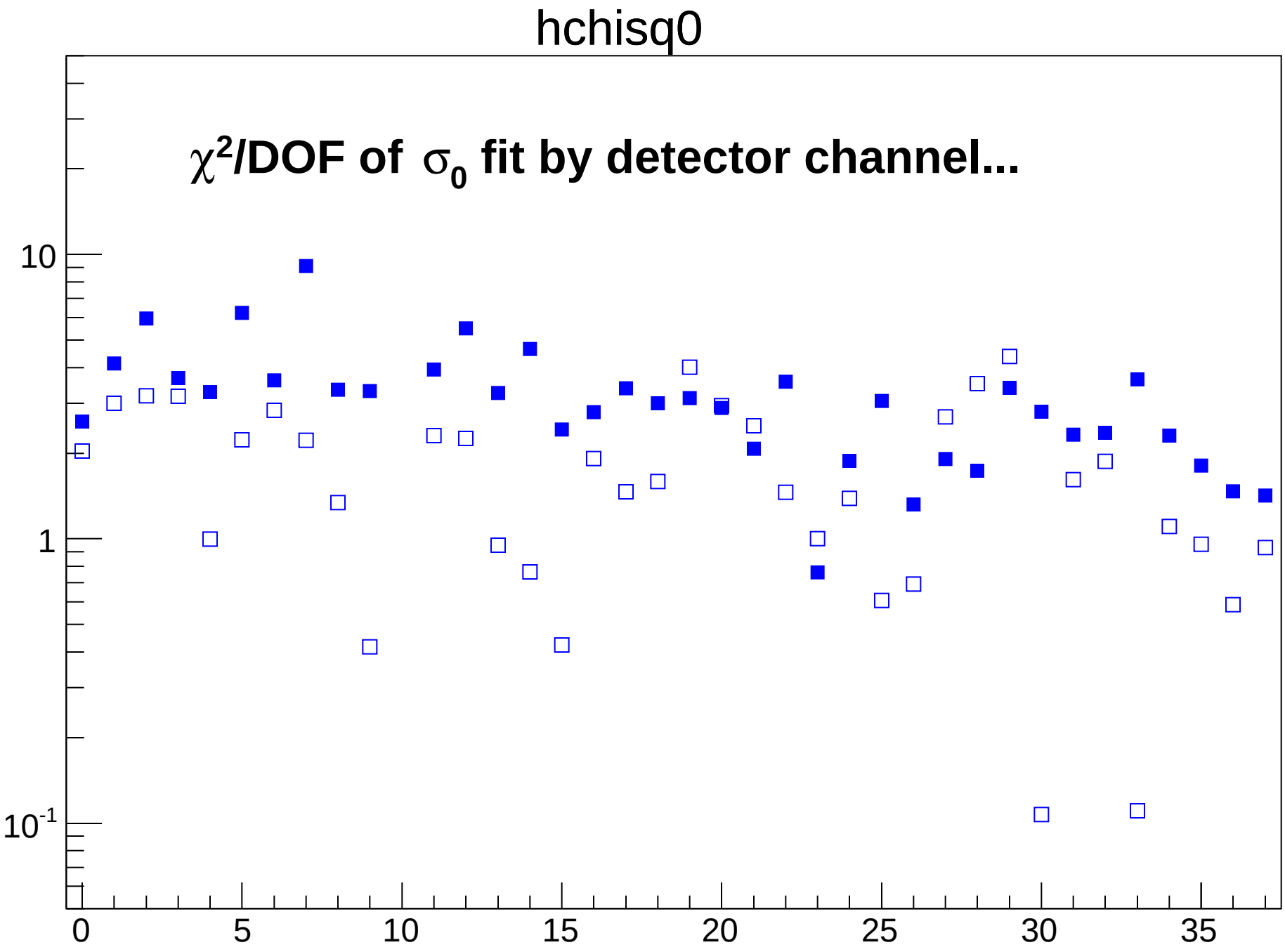

Fitted value of par[2]=Sigma
idet= 15
iside= 1
idetew= 34
σ= 0.172
χ²/DOF= 2.307

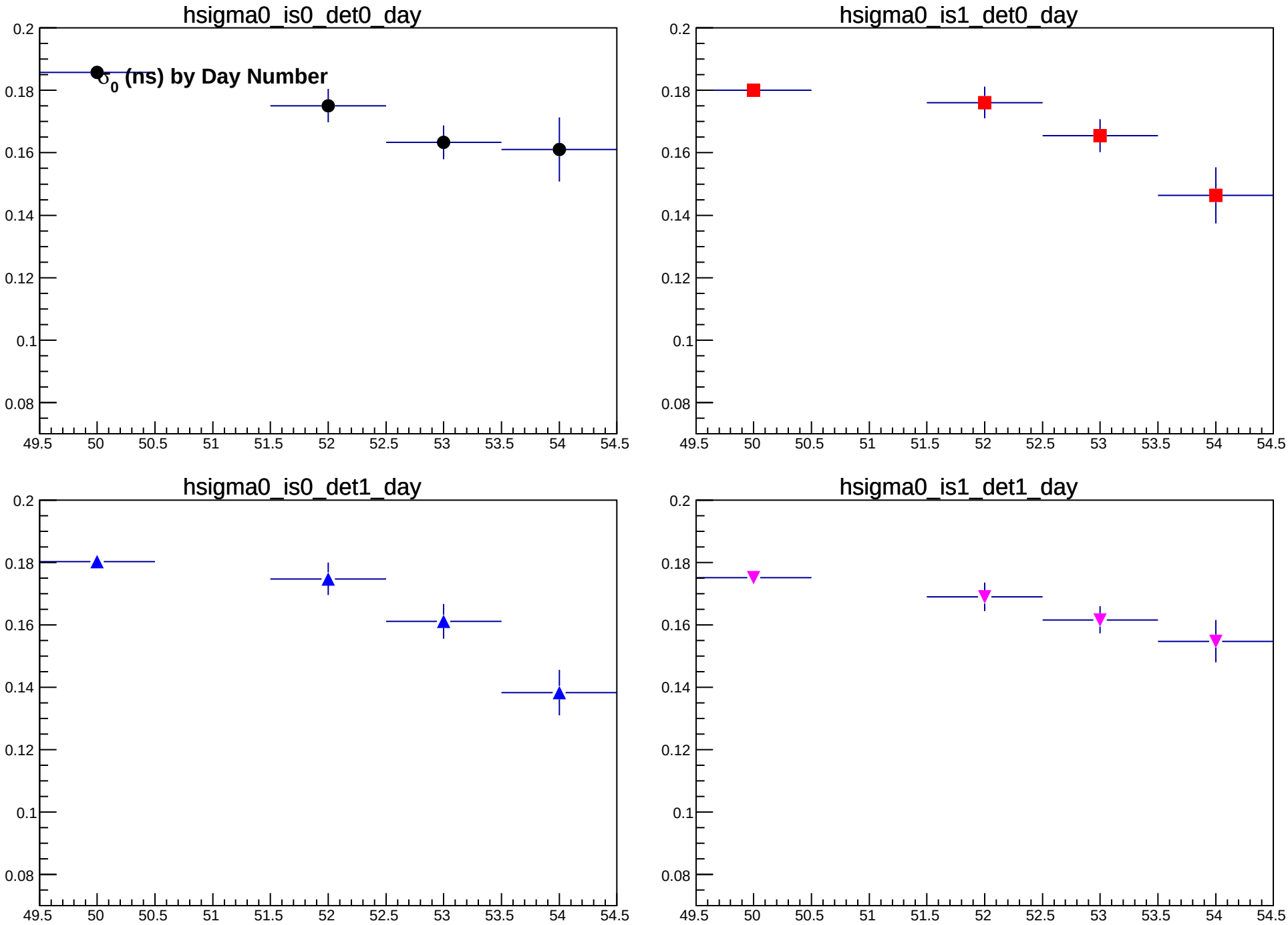

Fitted value of par[2]=Sigma
idet= 16
iside= 1
idetew= 35
σ= 0.178
χ²/DOF= 1.807

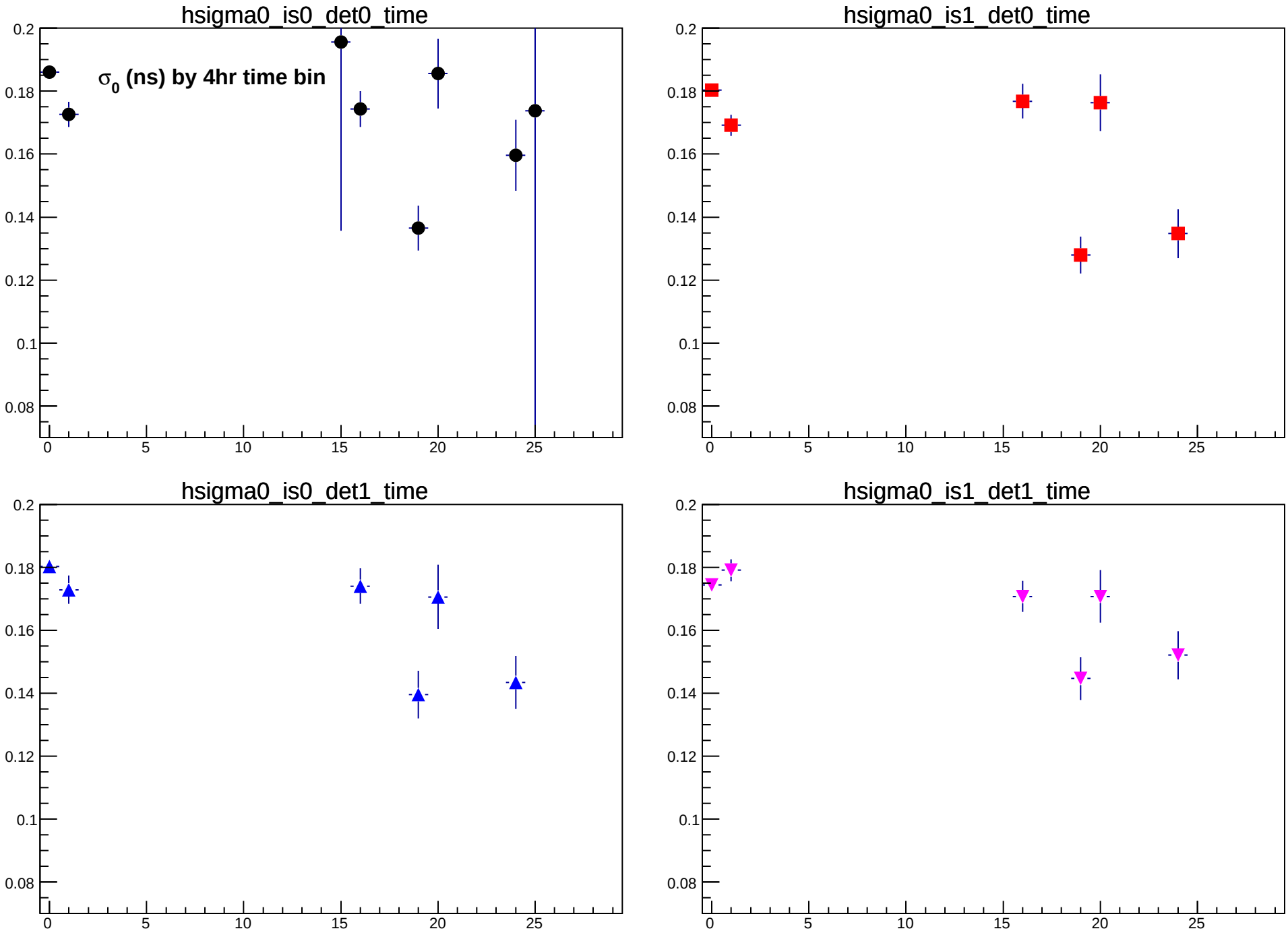

Fitted value of par[2]=Sigma
idet= 17
iside= 1
idetew= 36
σ= 0.172
χ²/DOF= 1.470

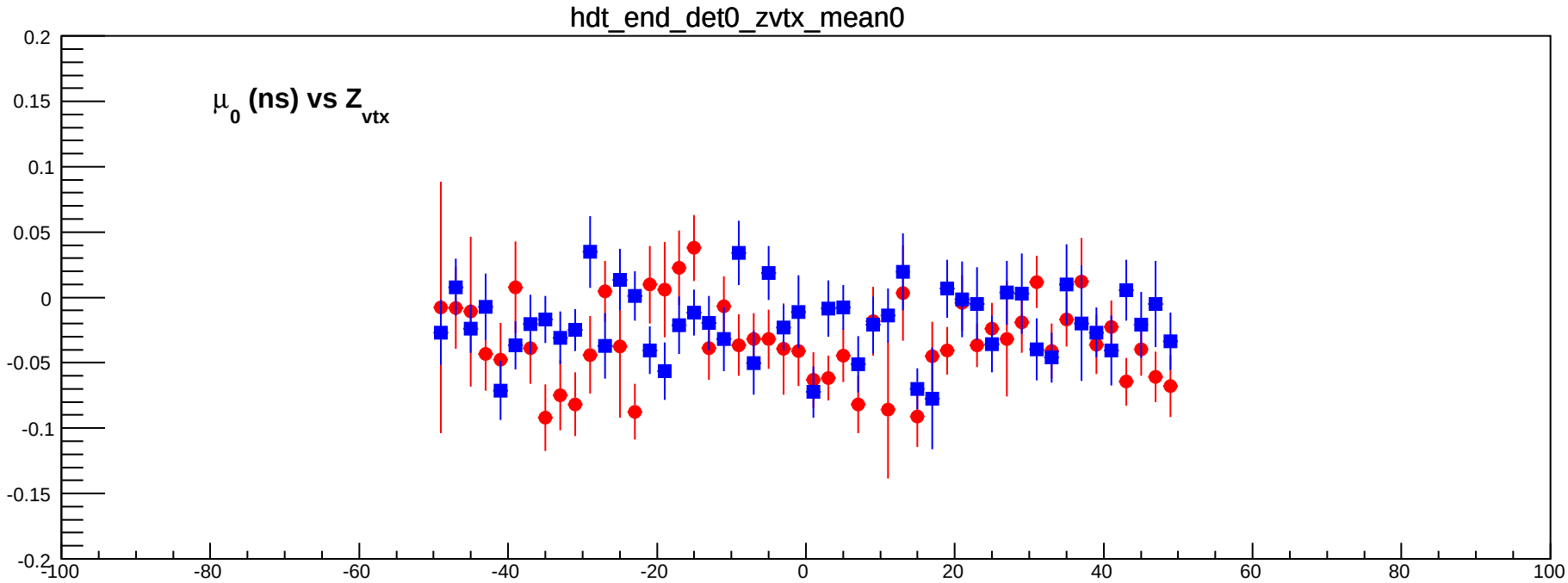

Fitted value of par[2]=Sigma
idet= 18
iside= 1
idetew= 37
σ= 0.176
χ²/DOF= 1.419

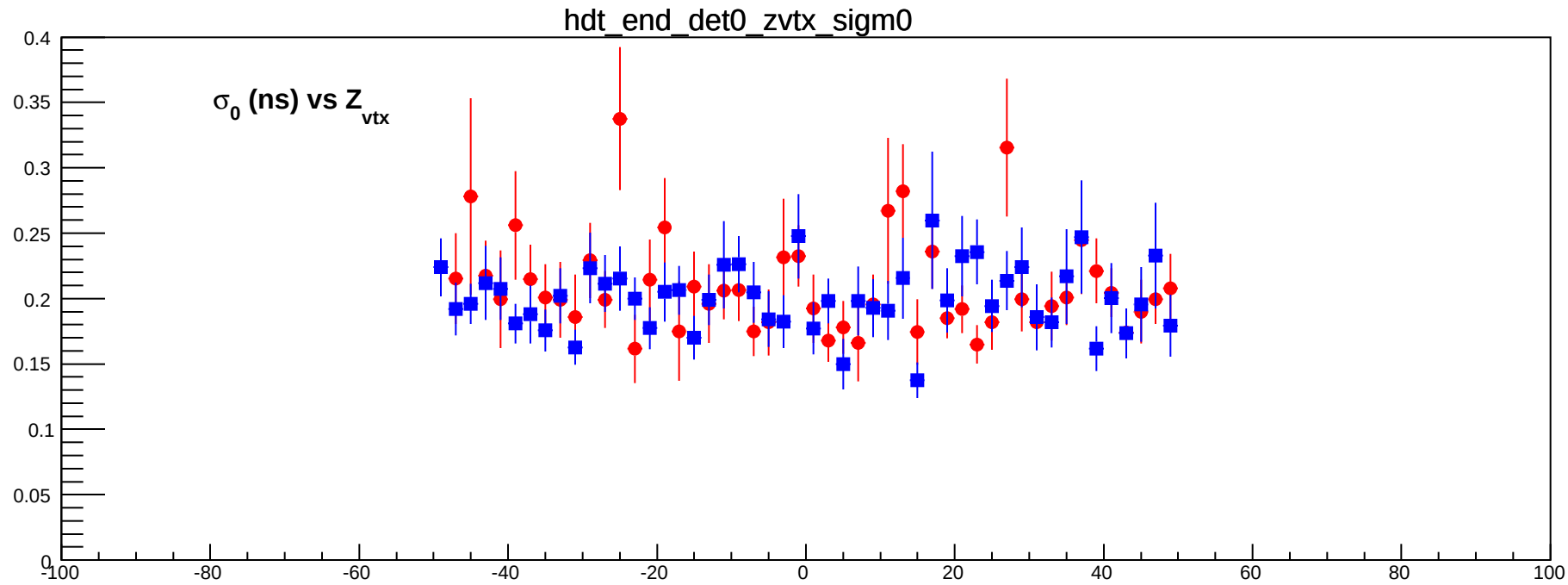

hsigma0
σ0 (ns) by detector channel...
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
5
10
15
20
25
30
35

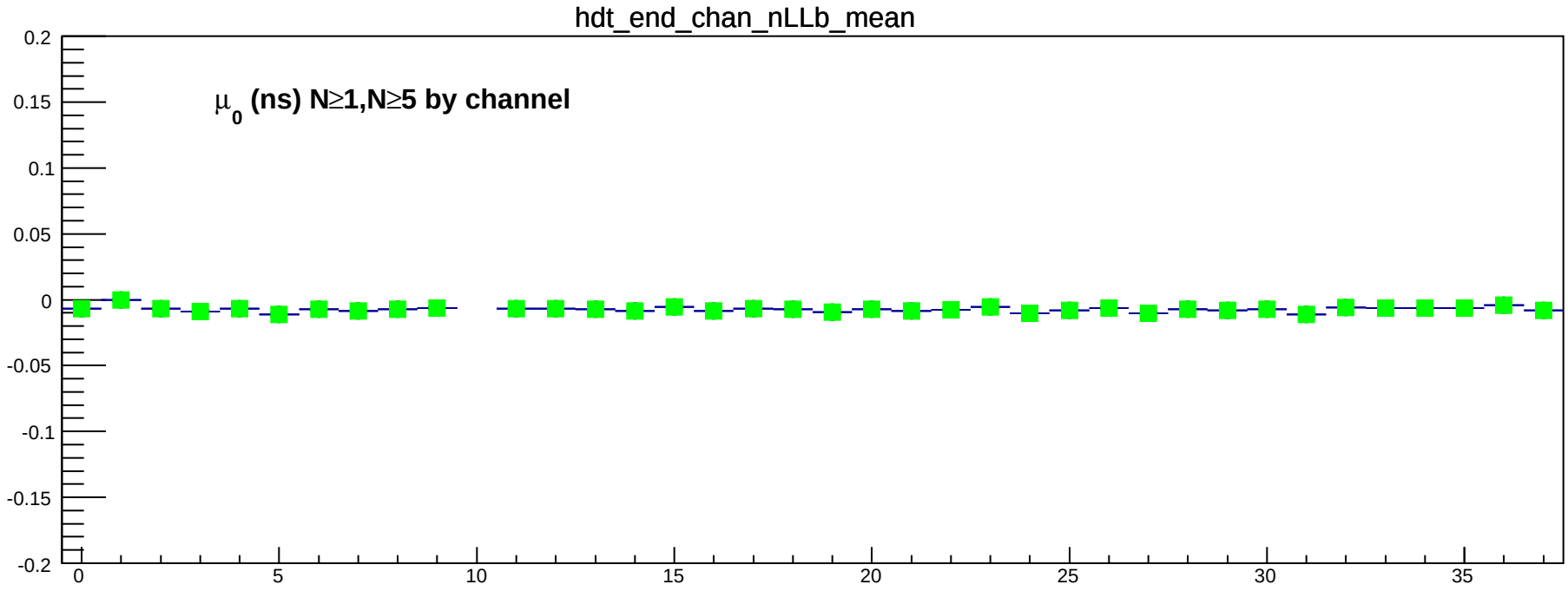

hchisq0
χ²/DOF of σ₀ fit by detector channel...
10
1
10⁻¹
0
5
10
15
20
25
30
35

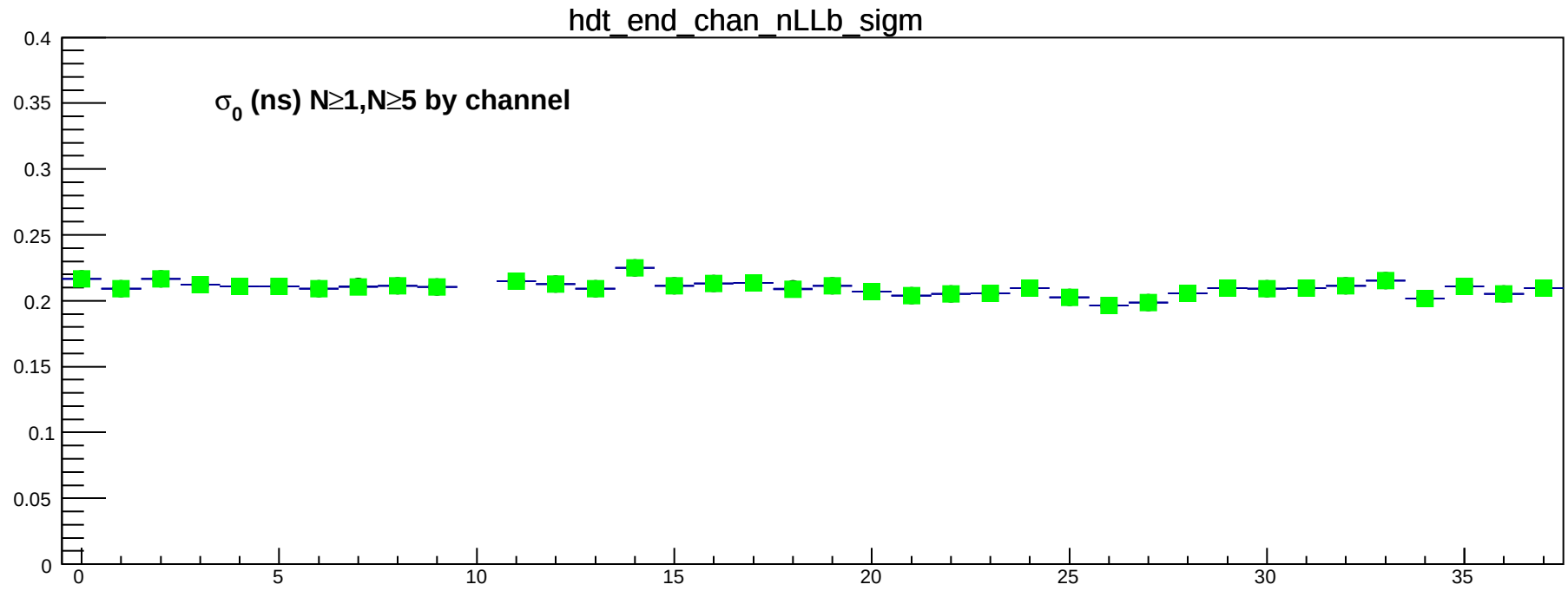

hsigma0_is0_det0_day
σ0 (ns) by Day Number
hsigma0_is1_det0_day
hsigma0_is0_det1_day
hsigma0_is1_det1_day
0.2
0.18
0.16
0.14
0.12
0.1
0.08
49.5
50
50.5
51
51.5
52
52.5
53
53.5
54
54.5

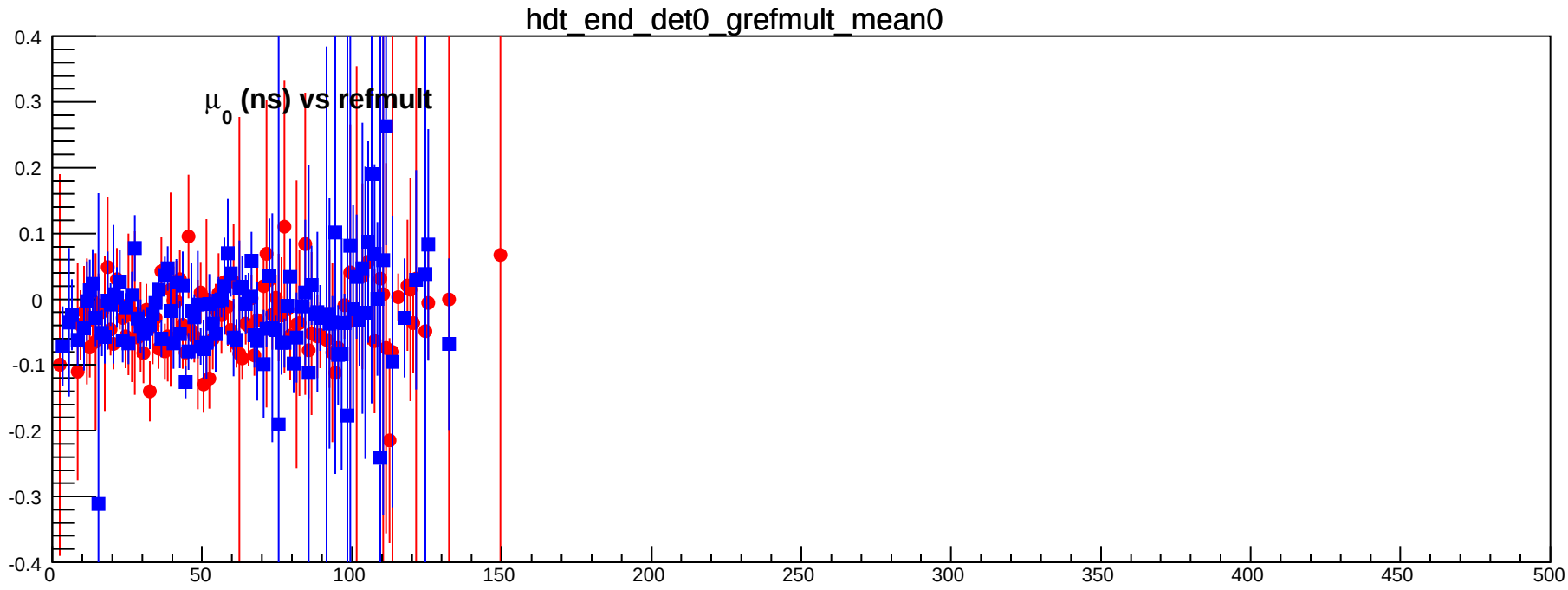

hsigma0_is0_det0_time
σ0 (ns) by 4hr time bin
hsigma0_is1_det0_time
hsigma0_is0_det1_time
hsigma0_is1_det1_time
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0
5
10
15
20
25

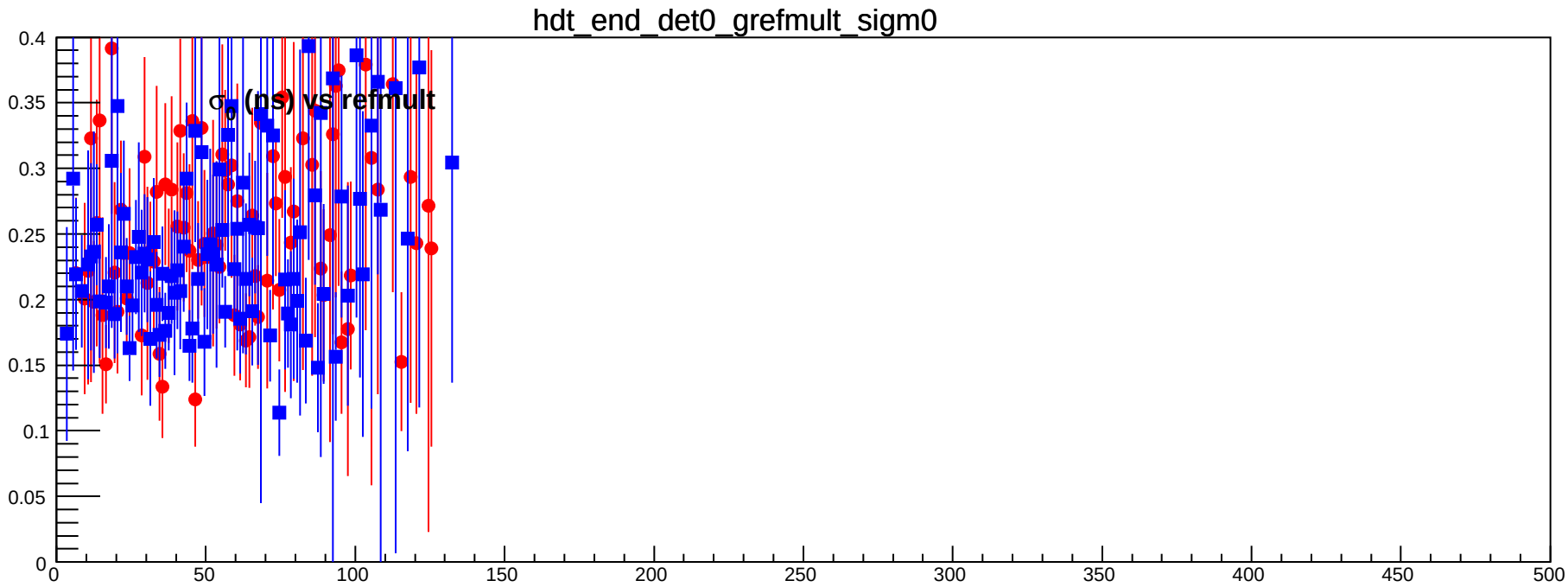

hdt_end_det0_zvtx_mean0
μ0 (ns) vs Zvtx
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
-100
-80
-60
-40
-20
0
20
40
60
80
100


hdt_end_det0_zvtx_sigm0
σ0 (ns) vs Zvtx
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
-100
-80
-60
-40
-20
0
20
40
60
80
100


hdt_end_chan_nLLb_mean
μ0 (ns) N≥1,N≥5 by channel
0.2
0.15
0.1
0.05
0
-0.05
-0.1
-0.15
-0.2
0
5
10
15
20
25
30
35


hdt_end_chan_nLLb_sigm
σ0 (ns) N≥1,N≥5 by channel
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
5
10
15
20
25
30
35


hdt_end_det0_grefmult_mean0
μ0 (ns) vs refmult
0.4
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
-0.4
0
50
100
150
200
250
300
350
400
450
500


hdt_end_det0_grefmult_sigm0
σ0 (ns) vs refmult
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
50
100
150
200
250
300
350
400
450
500