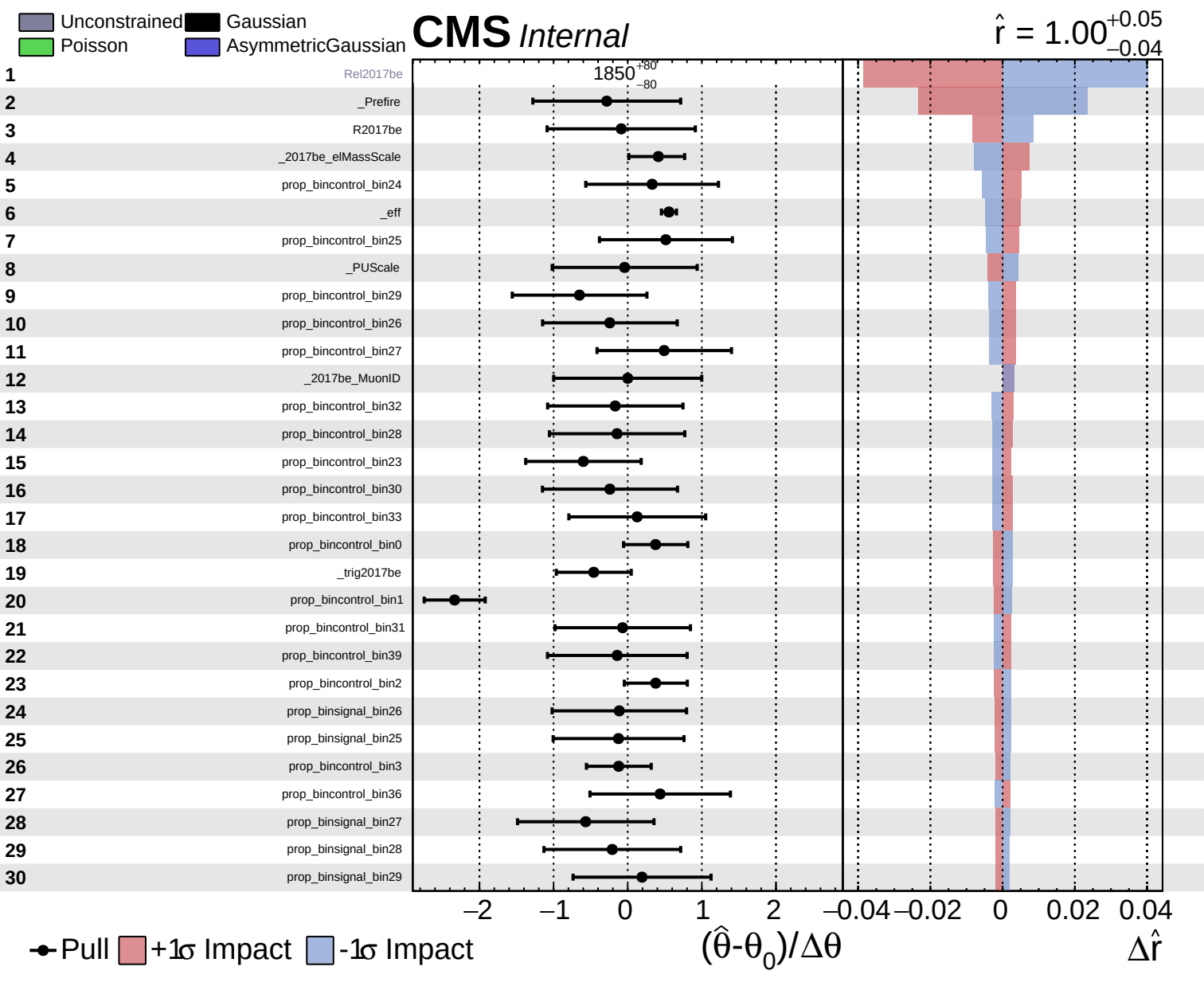
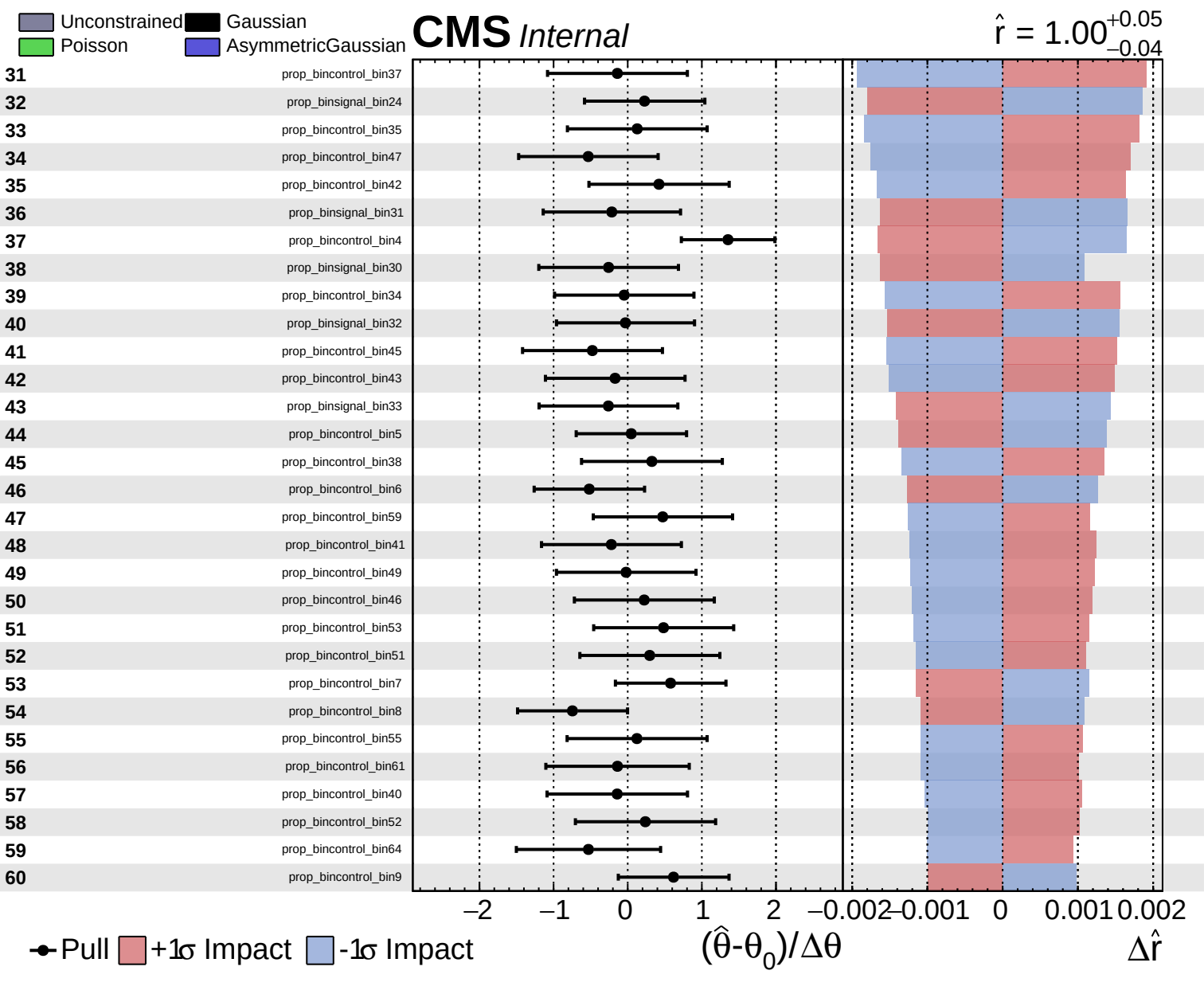
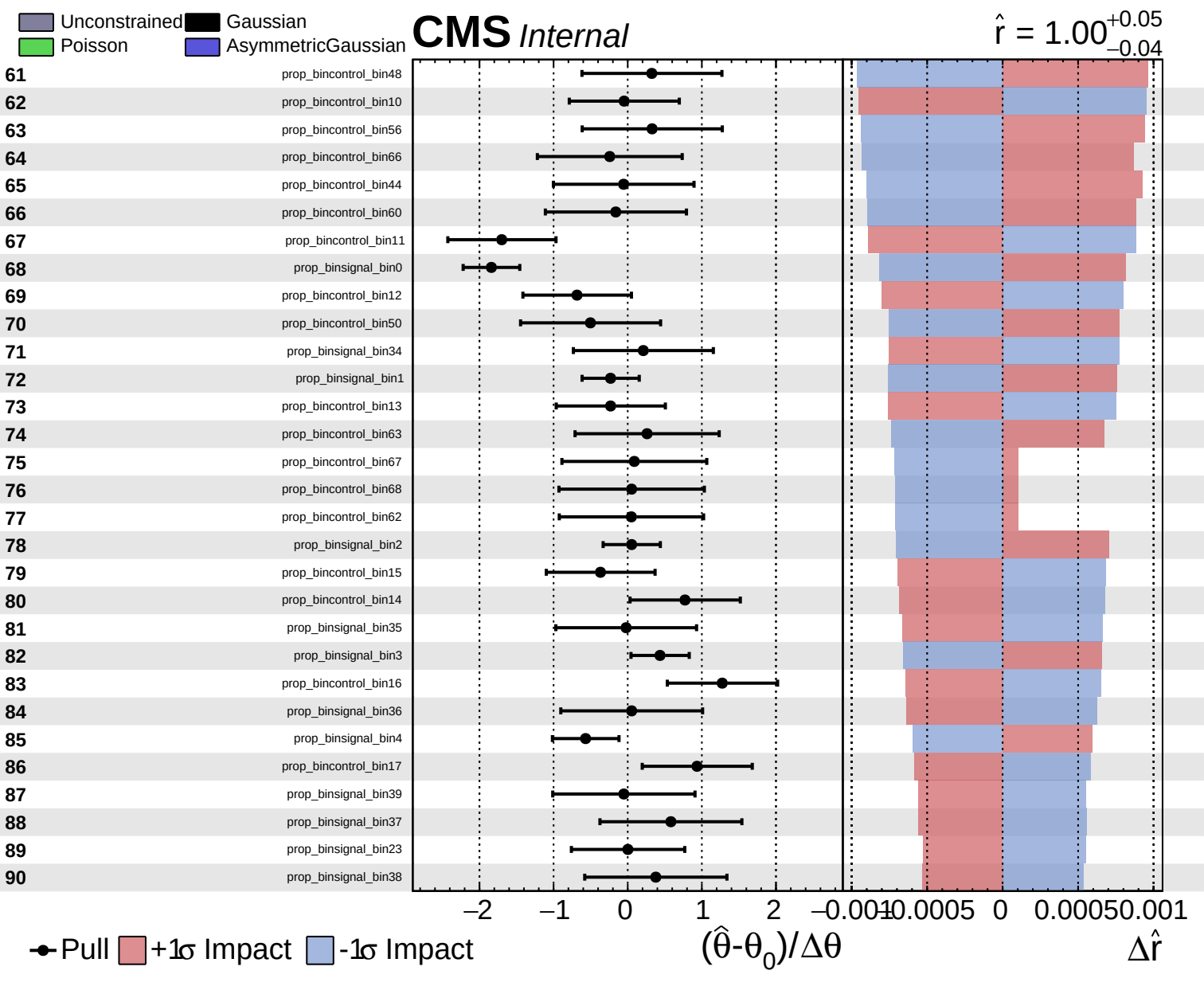
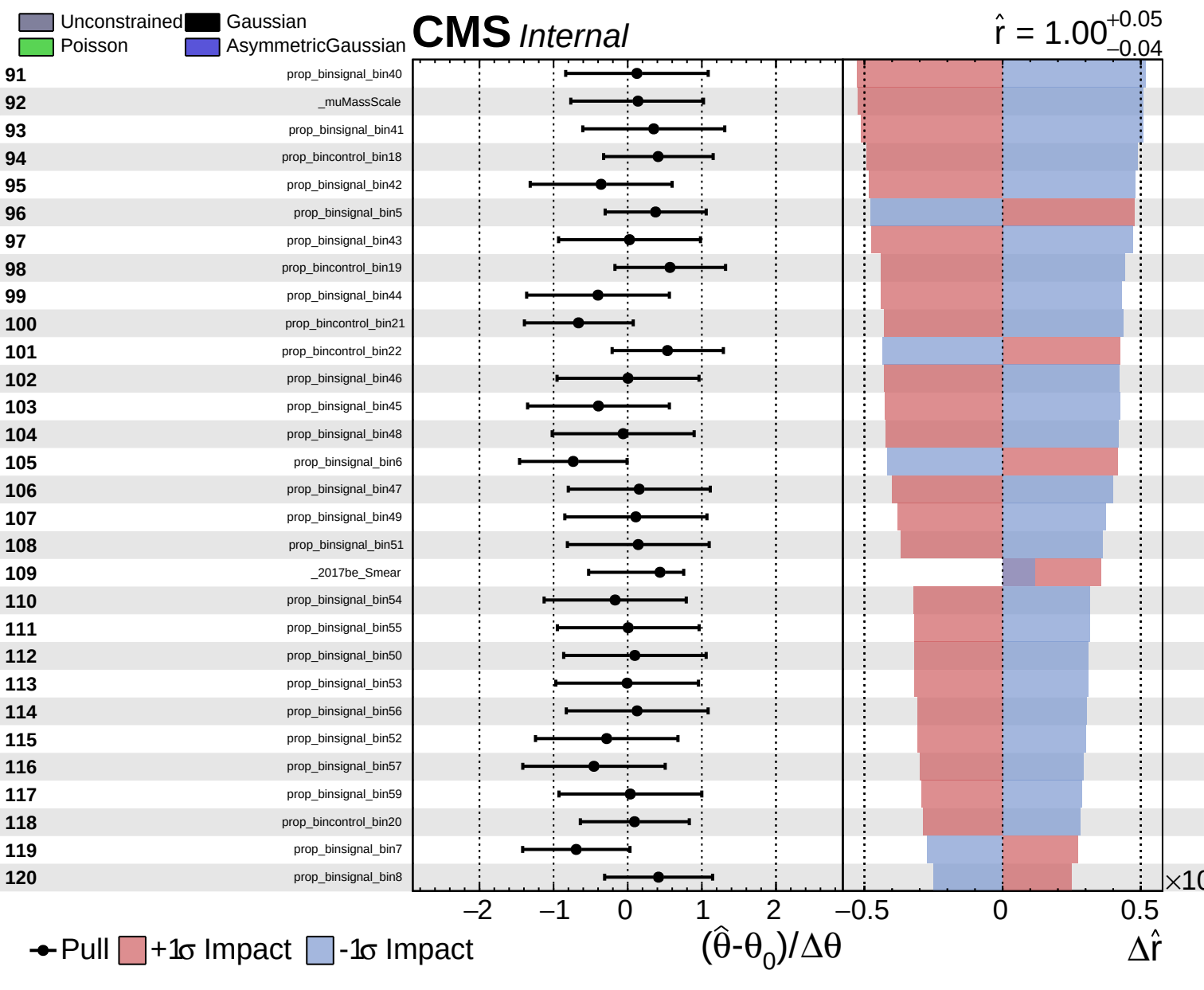
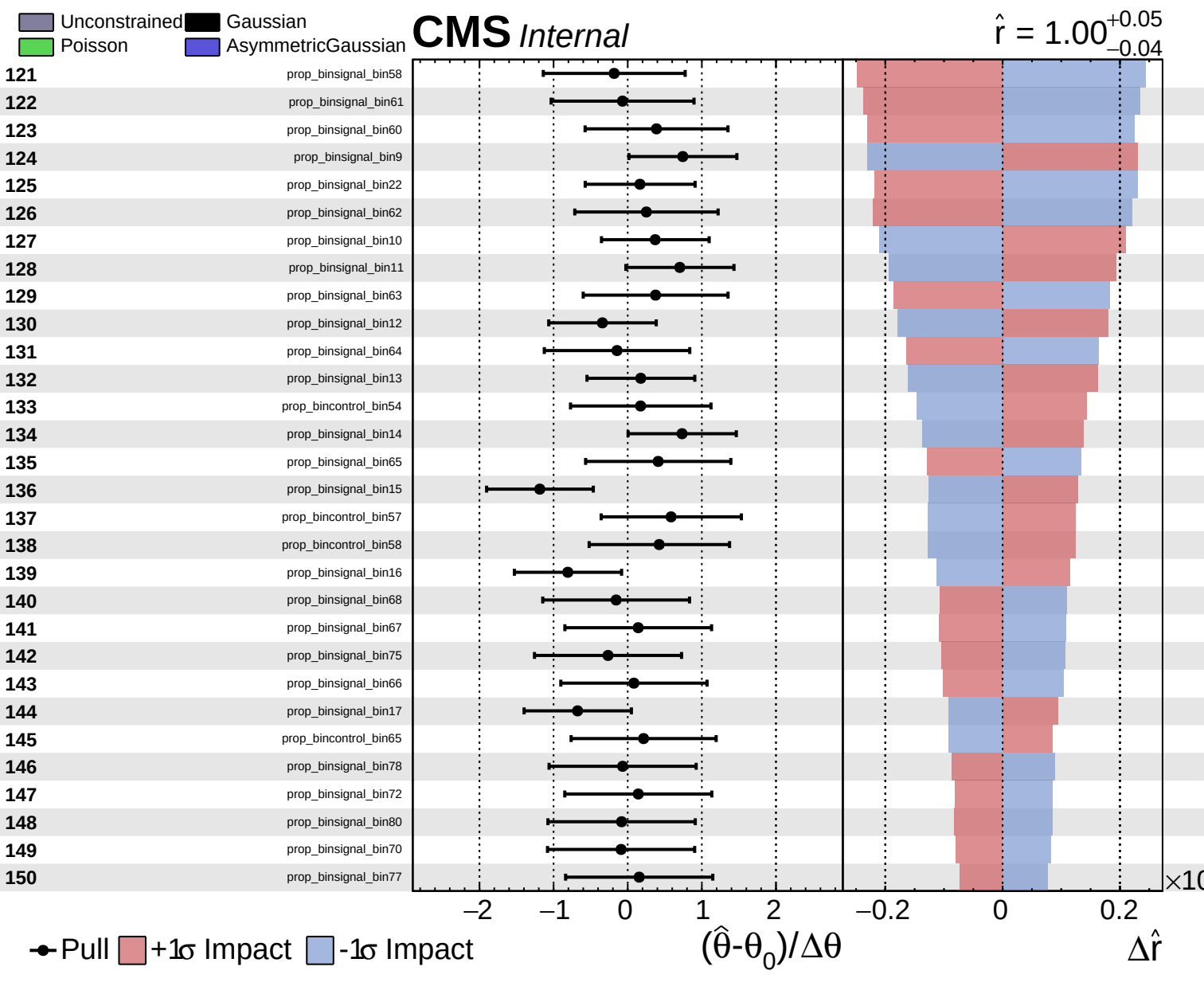
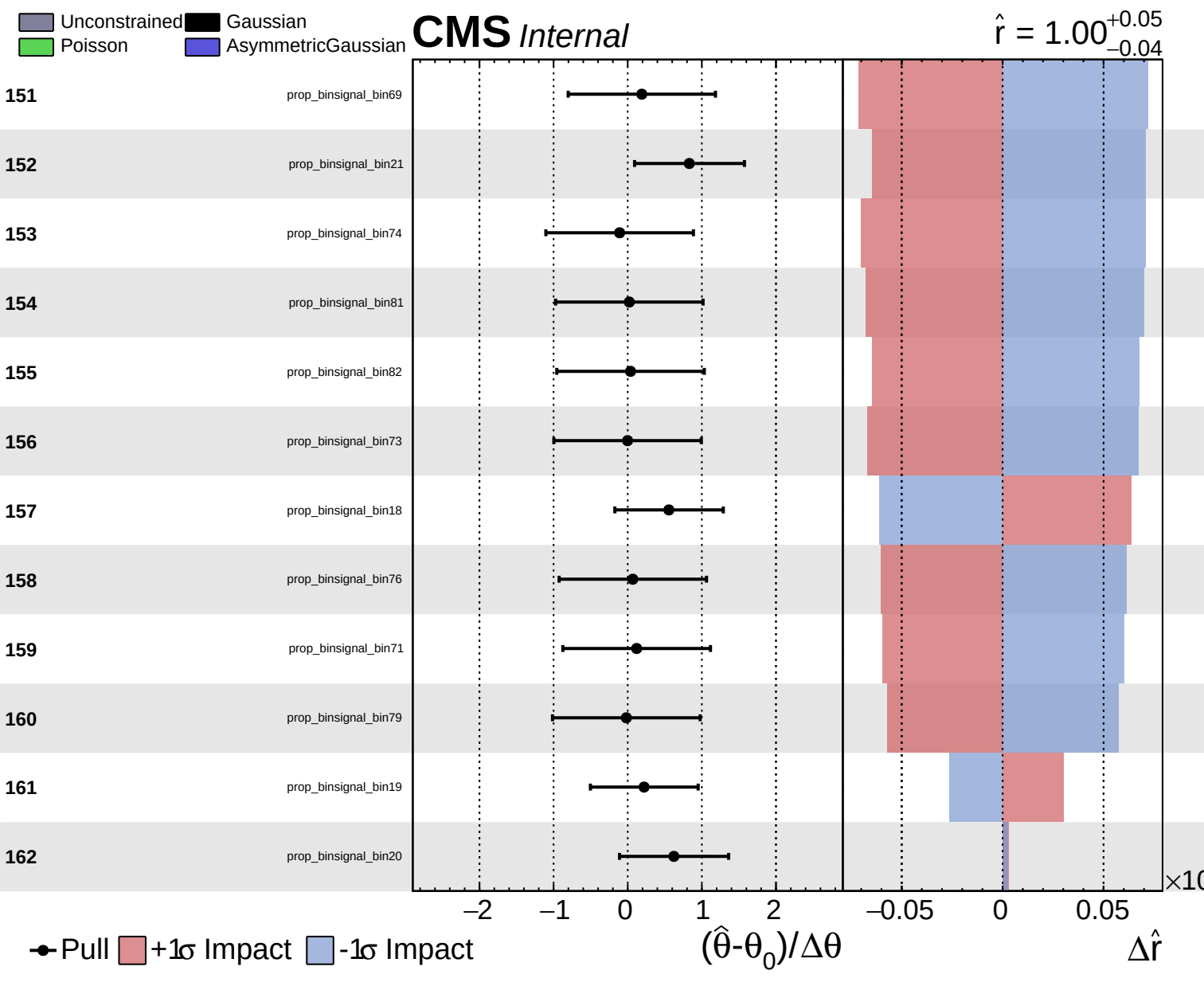

Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.05 −0.04
1 Rel2017be
1850 +80 −80
2 _Prefire
3 R2017be
4 _2017be_elMassScale
5 prop_bincontrol_bin24
6 _eff
7 prop_bincontrol_bin25
8 _PUScale
9 prop_bincontrol_bin29
10 prop_bincontrol_bin26
11 prop_bincontrol_bin27
12 _2017be_MuonID
13 prop_bincontrol_bin32
14 prop_bincontrol_bin28
15 prop_bincontrol_bin23
16 prop_bincontrol_bin30
17 prop_bincontrol_bin33
18 prop_bincontrol_bin0
19 _trig2017be
20 prop_bincontrol_bin1
21 prop_bincontrol_bin31
22 prop_bincontrol_bin39
23 prop_bincontrol_bin2
24 prop_binsignal_bin26
25 prop_binsignal_bin25
26 prop_bincontrol_bin3
27 prop_bincontrol_bin36
28 prop_binsignal_bin27
29 prop_binsignal_bin28
30 prop_binsignal_bin29
−2 −1 0 1 2
−0.04 −0.02 0 0.02 0.04
Pull +1σ Impact -1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.05 −0.04
31 prop_bincontrol_bin37
32 prop_binsignal_bin24
33 prop_bincontrol_bin35
34 prop_bincontrol_bin47
35 prop_bincontrol_bin42
36 prop_binsignal_bin31
37 prop_bincontrol_bin4
38 prop_binsignal_bin30
39 prop_bincontrol_bin34
40 prop_binsignal_bin32
41 prop_bincontrol_bin45
42 prop_bincontrol_bin43
43 prop_binsignal_bin33
44 prop_bincontrol_bin5
45 prop_bincontrol_bin38
46 prop_bincontrol_bin6
47 prop_bincontrol_bin59
48 prop_bincontrol_bin41
49 prop_bincontrol_bin49
50 prop_bincontrol_bin46
51 prop_bincontrol_bin53
52 prop_bincontrol_bin51
53 prop_bincontrol_bin7
54 prop_bincontrol_bin8
55 prop_bincontrol_bin55
56 prop_bincontrol_bin61
57 prop_bincontrol_bin40
58 prop_bincontrol_bin52
59 prop_bincontrol_bin64
60 prop_bincontrol_bin9
−2 −1 0 1 2
−0.002 −0.001 0 0.001 0.002
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.05 −0.04
61 prop_bincontrol_bin48
62 prop_bincontrol_bin10
63 prop_bincontrol_bin56
64 prop_bincontrol_bin66
65 prop_bincontrol_bin44
66 prop_bincontrol_bin60
67 prop_bincontrol_bin11
68 prop_binsignal_bin0
69 prop_bincontrol_bin12
70 prop_bincontrol_bin50
71 prop_binsignal_bin34
72 prop_binsignal_bin1
73 prop_bincontrol_bin13
74 prop_bincontrol_bin63
75 prop_bincontrol_bin67
76 prop_bincontrol_bin68
77 prop_bincontrol_bin62
78 prop_binsignal_bin2
79 prop_bincontrol_bin15
80 prop_bincontrol_bin14
81 prop_binsignal_bin35
82 prop_binsignal_bin3
83 prop_bincontrol_bin16
84 prop_binsignal_bin36
85 prop_binsignal_bin4
86 prop_bincontrol_bin17
87 prop_binsignal_bin39
88 prop_binsignal_bin37
89 prop_binsignal_bin23
90 prop_binsignal_bin38
−2 −1 0 1 2
−0.001 −0.0005 0 0.0005 0.001
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.05 −0.04
91 prop_binsignal_bin40
92 _muMassScale
93 prop_binsignal_bin41
94 prop_bincontrol_bin18
95 prop_binsignal_bin42
96 prop_binsignal_bin5
97 prop_binsignal_bin43
98 prop_bincontrol_bin19
99 prop_binsignal_bin44
100 prop_bincontrol_bin21
101 prop_bincontrol_bin22
102 prop_binsignal_bin46
103 prop_binsignal_bin45
104 prop_binsignal_bin48
105 prop_binsignal_bin6
106 prop_binsignal_bin47
107 prop_binsignal_bin49
108 prop_binsignal_bin51
109 _2017be_Smear
110 prop_binsignal_bin54
111 prop_binsignal_bin55
112 prop_binsignal_bin50
113 prop_binsignal_bin53
114 prop_binsignal_bin56
115 prop_binsignal_bin52
116 prop_binsignal_bin57
117 prop_binsignal_bin59
118 prop_bincontrol_bin20
119 prop_binsignal_bin7
120 prop_binsignal_bin8
−2 −1 0 1 2
−0.5 0 0.5
×10
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.05 −0.04
121 prop_binsignal_bin58
122 prop_binsignal_bin61
123 prop_binsignal_bin60
124 prop_binsignal_bin9
125 prop_binsignal_bin22
126 prop_binsignal_bin62
127 prop_binsignal_bin10
128 prop_binsignal_bin11
129 prop_binsignal_bin63
130 prop_binsignal_bin12
131 prop_binsignal_bin64
132 prop_binsignal_bin13
133 prop_bincontrol_bin54
134 prop_binsignal_bin14
135 prop_binsignal_bin65
136 prop_binsignal_bin15
137 prop_bincontrol_bin57
138 prop_bincontrol_bin58
139 prop_binsignal_bin16
140 prop_binsignal_bin68
141 prop_binsignal_bin67
142 prop_binsignal_bin75
143 prop_binsignal_bin66
144 prop_binsignal_bin17
145 prop_bincontrol_bin65
146 prop_binsignal_bin78
147 prop_binsignal_bin72
148 prop_binsignal_bin80
149 prop_binsignal_bin70
150 prop_binsignal_bin77
−2
−1
0
1
2
−0.2
0
0.2
×10
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.05 −0.04
151 prop_binsignal_bin69
152 prop_binsignal_bin21
153 prop_binsignal_bin74
154 prop_binsignal_bin81
155 prop_binsignal_bin82
156 prop_binsignal_bin73
157 prop_binsignal_bin18
158 prop_binsignal_bin76
159 prop_binsignal_bin71
160 prop_binsignal_bin79
161 prop_binsignal_bin19
162 prop_binsignal_bin20
−2 −1 0 1 2
−0.05 0 0.05
×10
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂