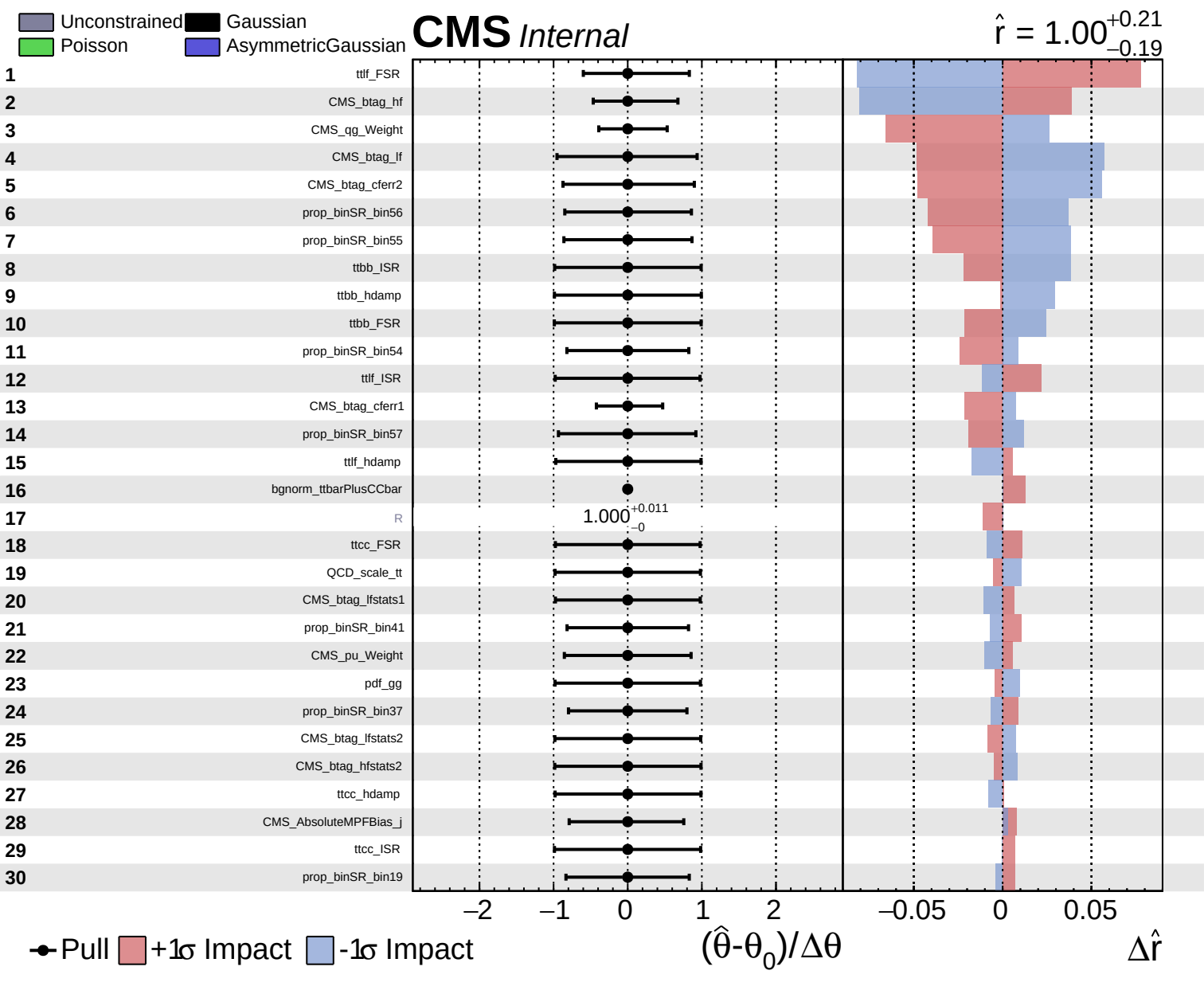
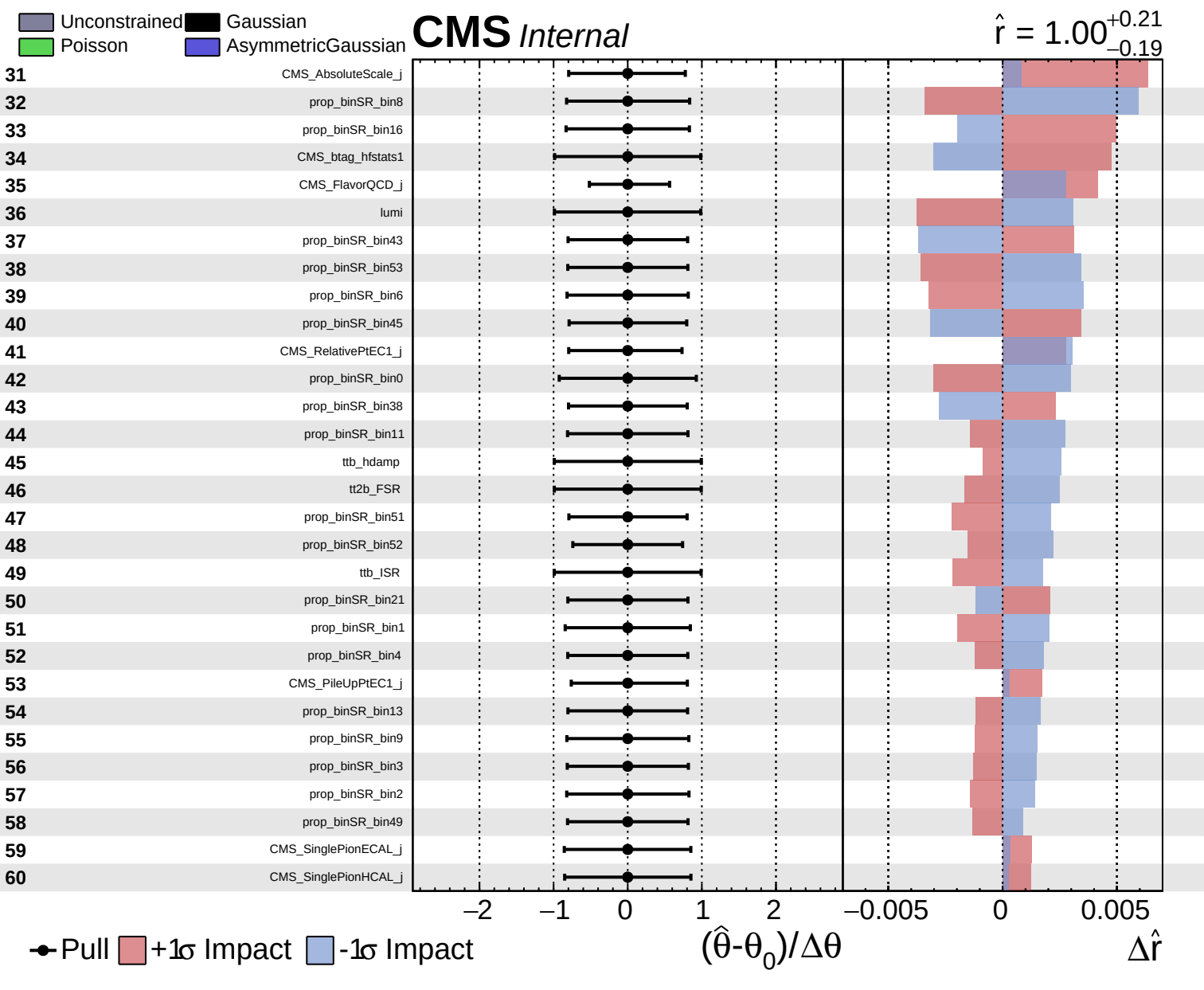
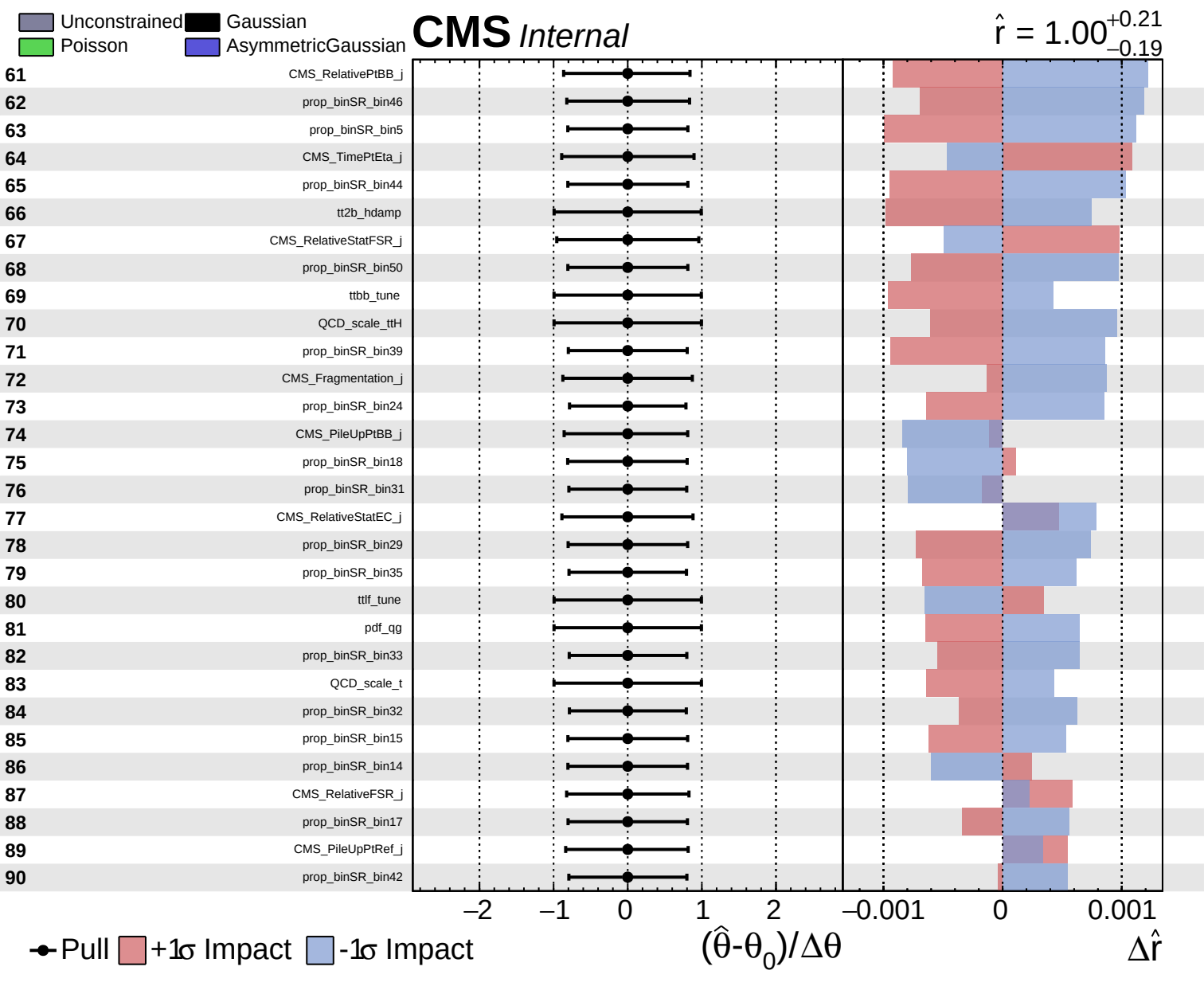
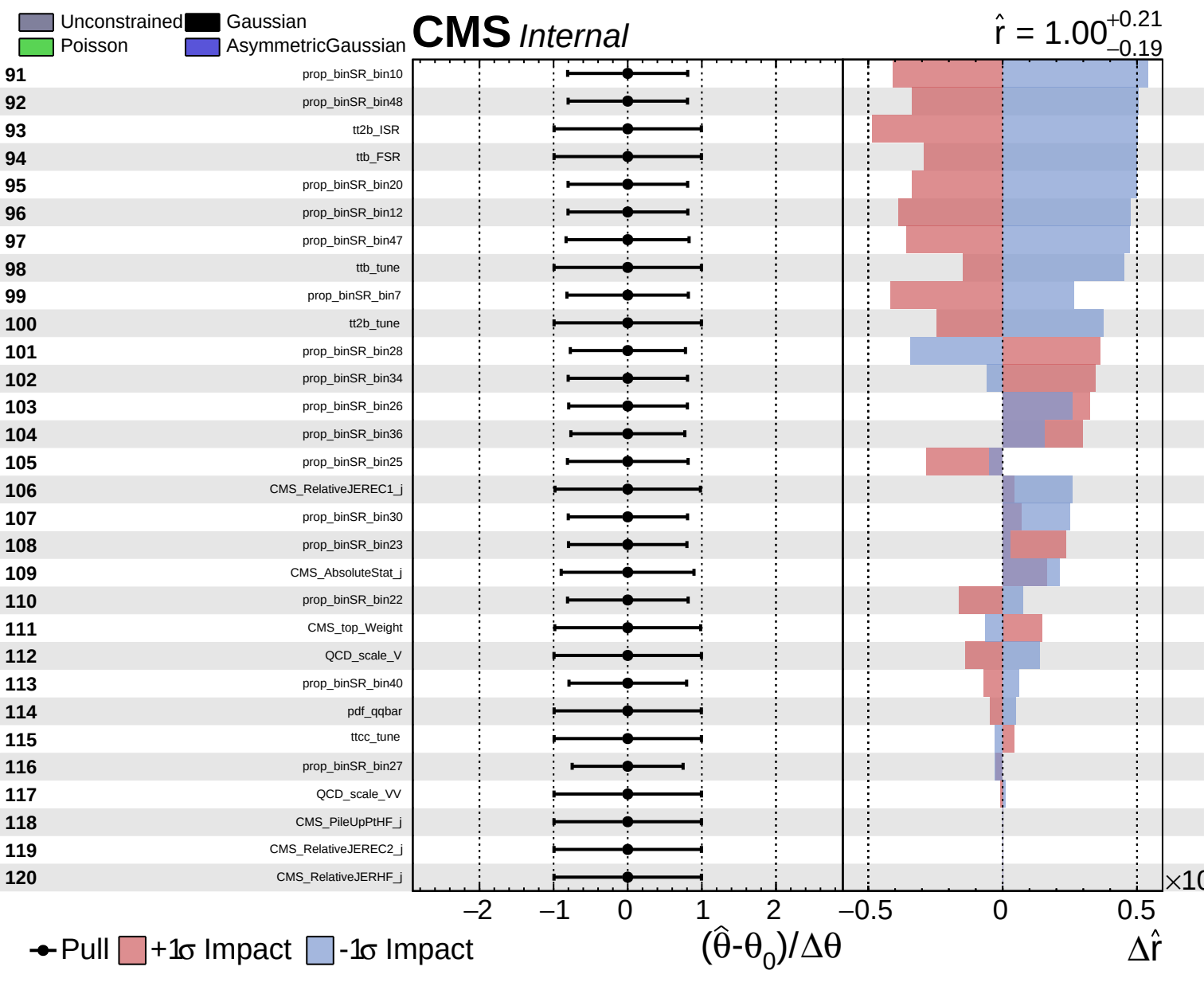
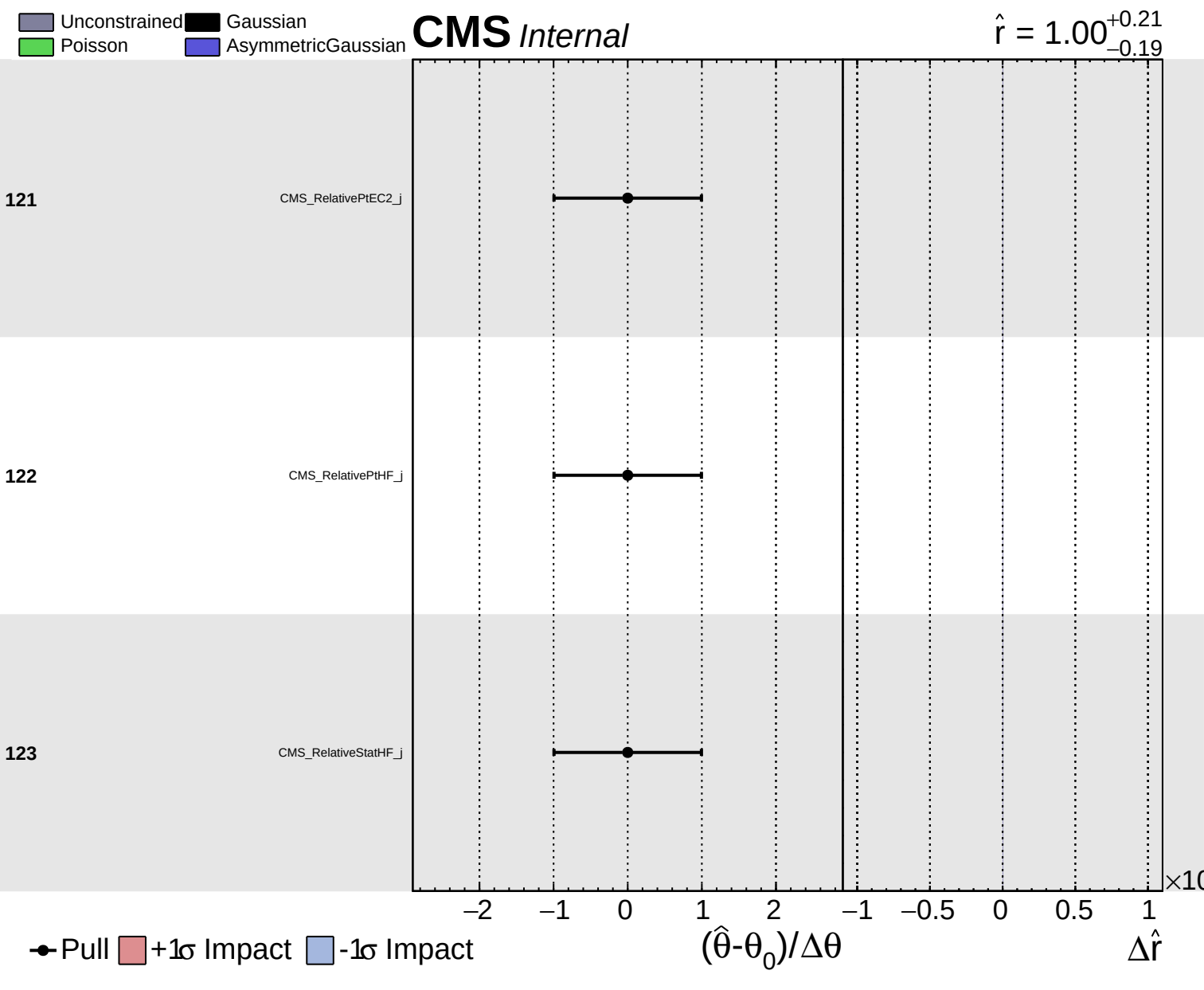

Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.21 −0.19
1 ttlf_FSR
2 CMS_btag_hf
3 CMS_qg_Weight
4 CMS_btag_lf
5 CMS_btag_cferr2
6 prop_binSR_bin56
7 prop_binSR_bin55
8 ttbb_ISR
9 ttbb_hdamp
10 ttbb_FSR
11 prop_binSR_bin54
12 ttlf_ISR
13 CMS_btag_cferr1
14 prop_binSR_bin57
15 ttlf_hdamp
16 bgnorm_ttbarPlusCCbar
17 R
1.000 +0.011 −0
18 ttcc_FSR
19 QCD_scale_tt
20 CMS_btag_lfstats1
21 prop_binSR_bin41
22 CMS_pu_Weight
23 pdf_gg
24 prop_binSR_bin37
25 CMS_btag_lfstats2
26 CMS_btag_hfstats2
27 ttcc_hdamp
28 CMS_AbsoluteMPFBias_j
29 ttcc_ISR
30 prop_binSR_bin19
−2
−1
0
1
2
−0.05
0
0.05
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.21 −0.19
31 CMS_AbsoluteScale_j
32 prop_binSR_bin8
33 prop_binSR_bin16
34 CMS_btag_hfstats1
35 CMS_FlavorQCD_j
36 lumi
37 prop_binSR_bin43
38 prop_binSR_bin53
39 prop_binSR_bin6
40 prop_binSR_bin45
41 CMS_RelativePtEC1_j
42 prop_binSR_bin0
43 prop_binSR_bin38
44 prop_binSR_bin11
45 ttb_hdamp
46 tt2b_FSR
47 prop_binSR_bin51
48 prop_binSR_bin52
49 ttb_ISR
50 prop_binSR_bin21
51 prop_binSR_bin1
52 prop_binSR_bin4
53 CMS_PileUpPtEC1_j
54 prop_binSR_bin13
55 prop_binSR_bin9
56 prop_binSR_bin3
57 prop_binSR_bin2
58 prop_binSR_bin49
59 CMS_SinglePionECAL_j
60 CMS_SinglePionHCAL_j
−2 −1 0 1 2
−0.005 0 0.005
Pull +1σ Impact -1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.21 −0.19
61 CMS_RelativePtBB_j
62 prop_binSR_bin46
63 prop_binSR_bin5
64 CMS_TimePtEta_j
65 prop_binSR_bin44
66 tt2b_hdamp
67 CMS_RelativeStatFSR_j
68 prop_binSR_bin50
69 ttbb_tune
70 QCD_scale_ttH
71 prop_binSR_bin39
72 CMS_Fragmentation_j
73 prop_binSR_bin24
74 CMS_PileUpPtBB_j
75 prop_binSR_bin18
76 prop_binSR_bin31
77 CMS_RelativeStatEC_j
78 prop_binSR_bin29
79 prop_binSR_bin35
80 ttlf_tune
81 pdf_qg
82 prop_binSR_bin33
83 QCD_scale_t
84 prop_binSR_bin32
85 prop_binSR_bin15
86 prop_binSR_bin14
87 CMS_RelativeFSR_j
88 prop_binSR_bin17
89 CMS_PileUpPtRef_j
90 prop_binSR_bin42
−2 −1 0 1 2
−0.001 0 0.001
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.21 −0.19
91 prop_binSR_bin10
92 prop_binSR_bin48
93 tt2b_ISR
94 ttb_FSR
95 prop_binSR_bin20
96 prop_binSR_bin12
97 prop_binSR_bin47
98 ttb_tune
99 prop_binSR_bin7
100 tt2b_tune
101 prop_binSR_bin28
102 prop_binSR_bin34
103 prop_binSR_bin26
104 prop_binSR_bin36
105 prop_binSR_bin25
106 CMS_RelativeJEREC1_j
107 prop_binSR_bin30
108 prop_binSR_bin23
109 CMS_AbsoluteStat_j
110 prop_binSR_bin22
111 CMS_top_Weight
112 QCD_scale_V
113 prop_binSR_bin40
114 pdf_qqbar
115 ttcc_tune
116 prop_binSR_bin27
117 QCD_scale_VV
118 CMS_PileUpPtHF_j
119 CMS_RelativeJEREC2_j
120 CMS_RelativeJERHF_j
×10
−2 −1 0 1 2
−0.5 0 0.5
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂


Unconstrained
Gaussian
Poisson
AsymmetricGaussian
CMS Internal
r̂ = 1.00 +0.21 −0.19
121
CMS_RelativePtEC2_j
122
CMS_RelativePtHF_j
123
CMS_RelativeStatHF_j
−2
−1
0
1
2
−1
−0.5
0
0.5
1
×10
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
Δr̂