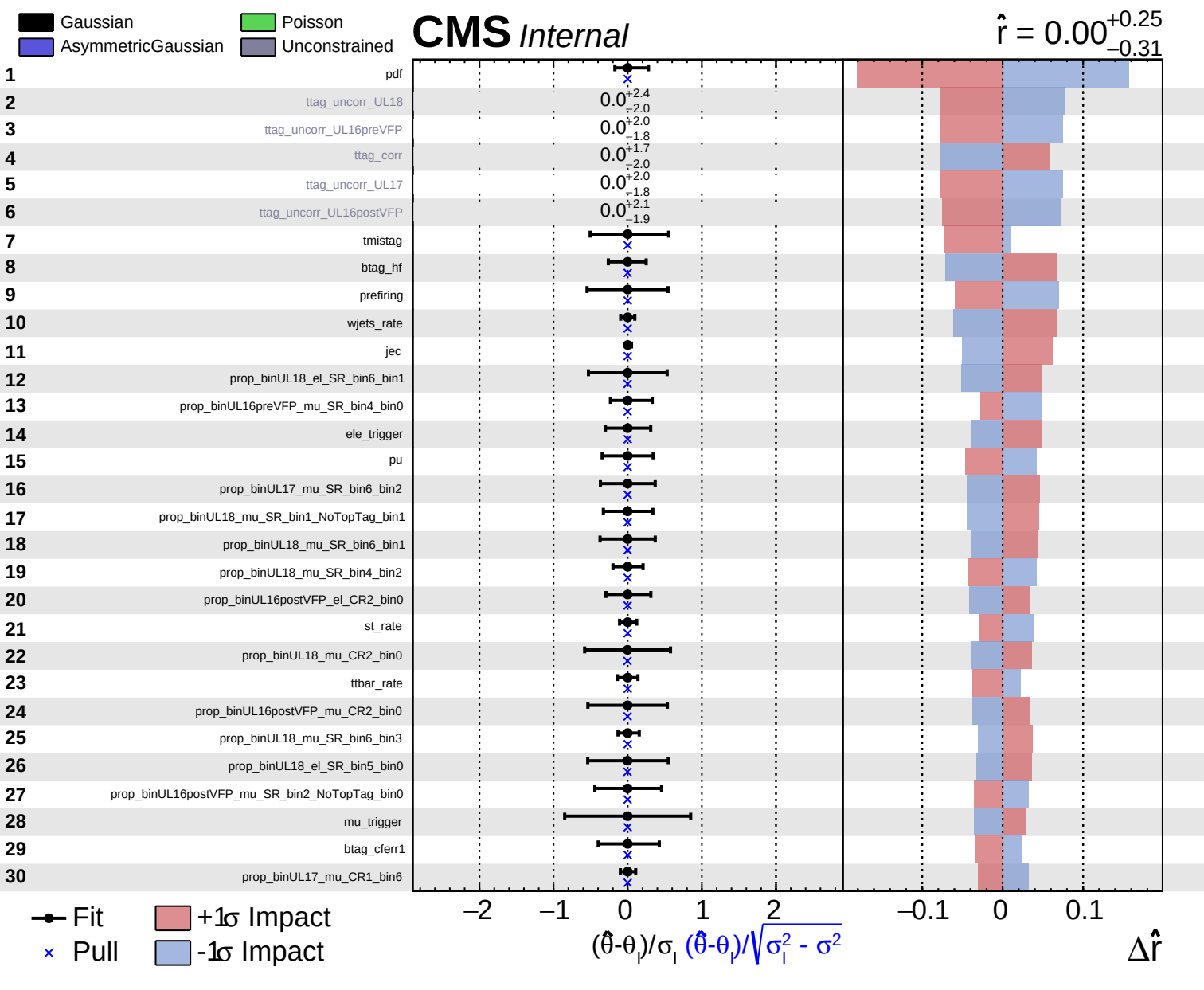
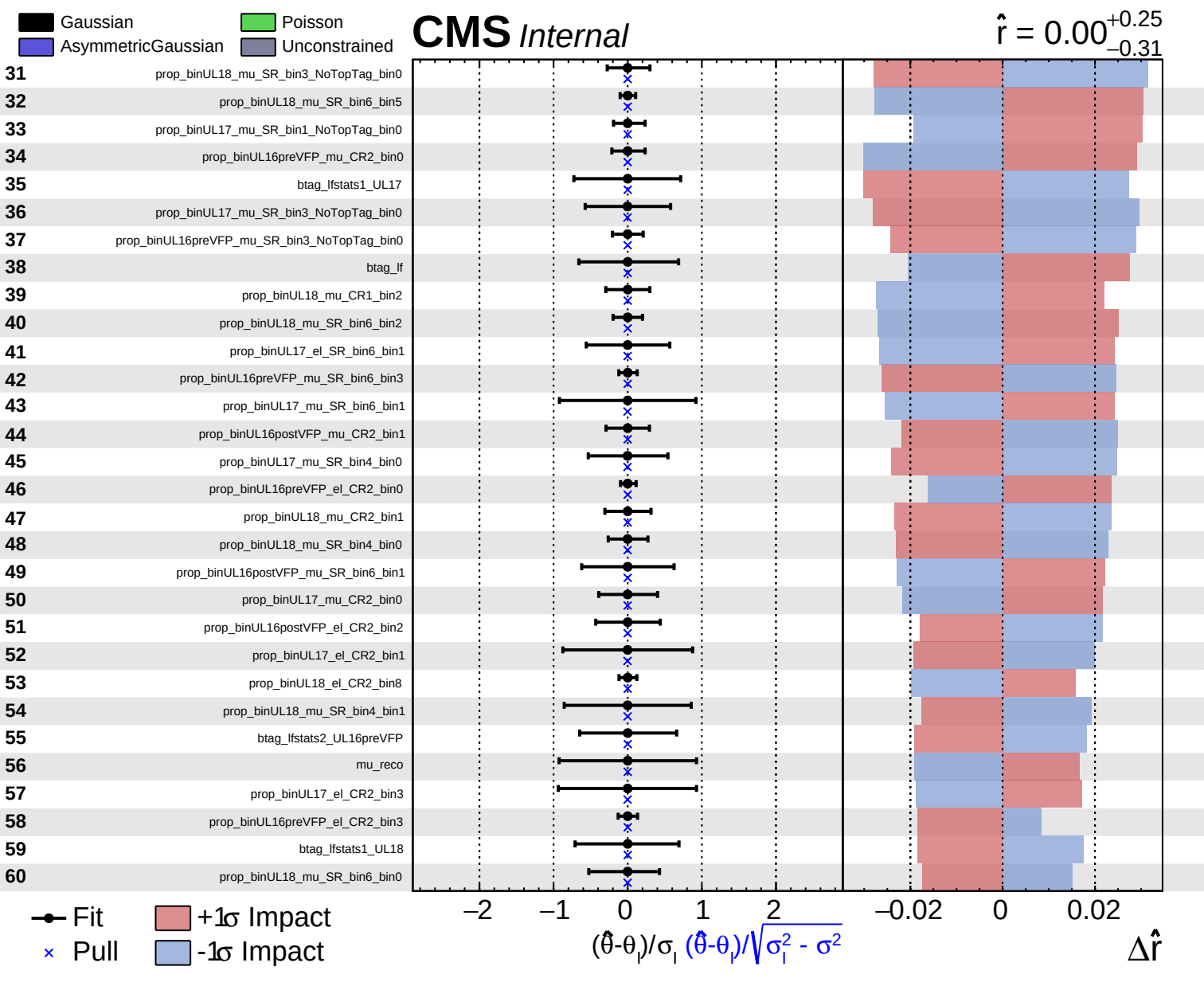
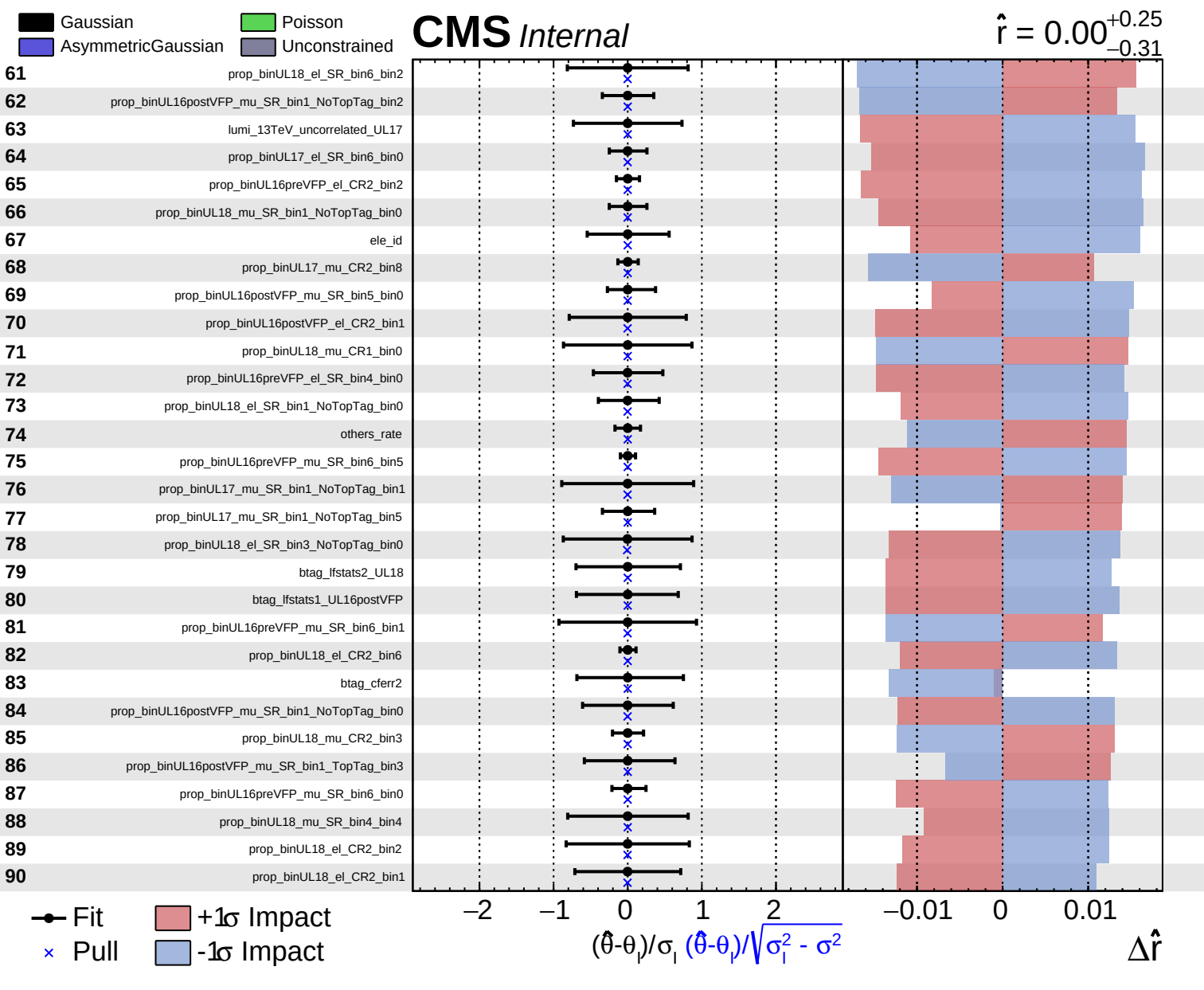
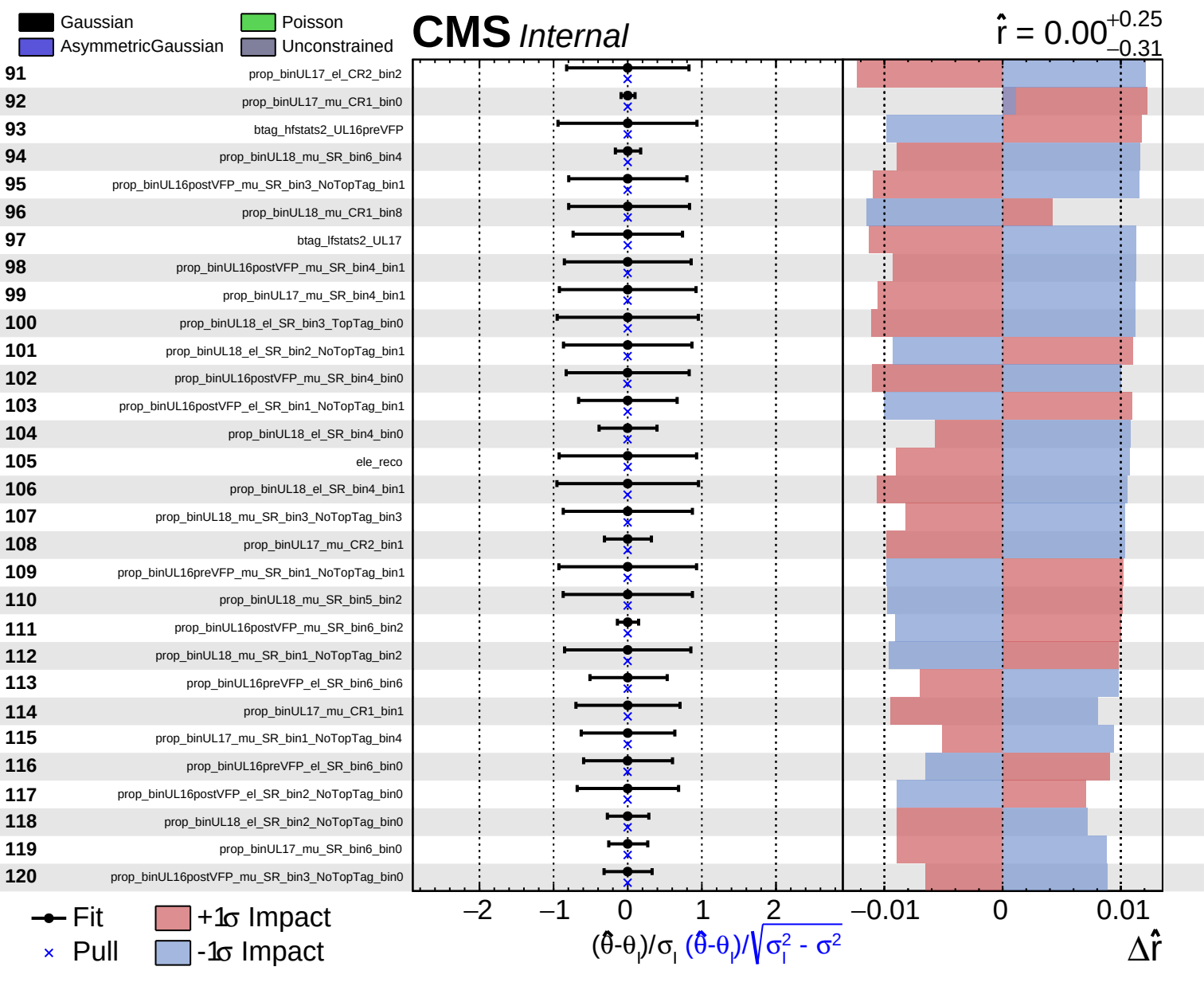
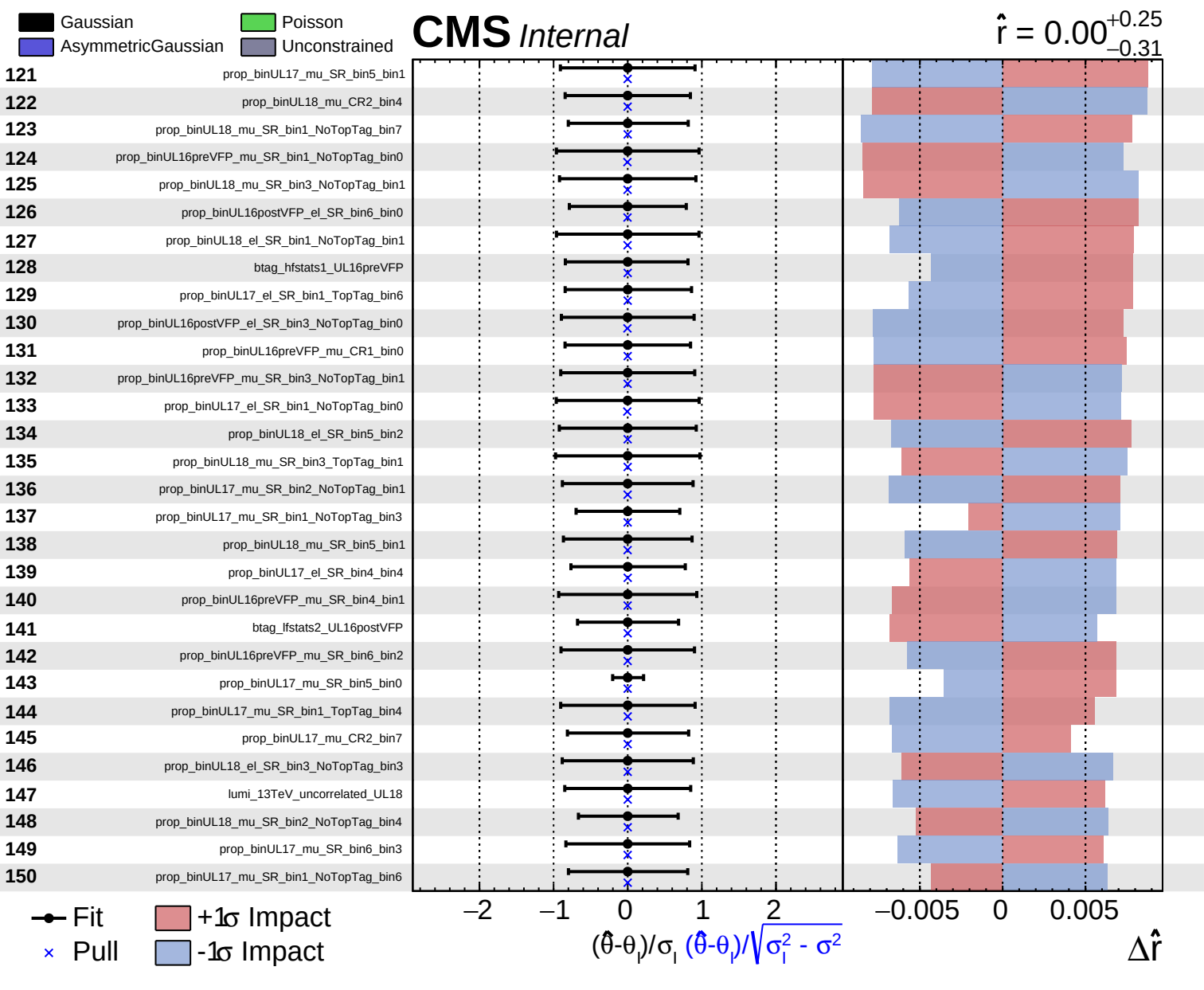
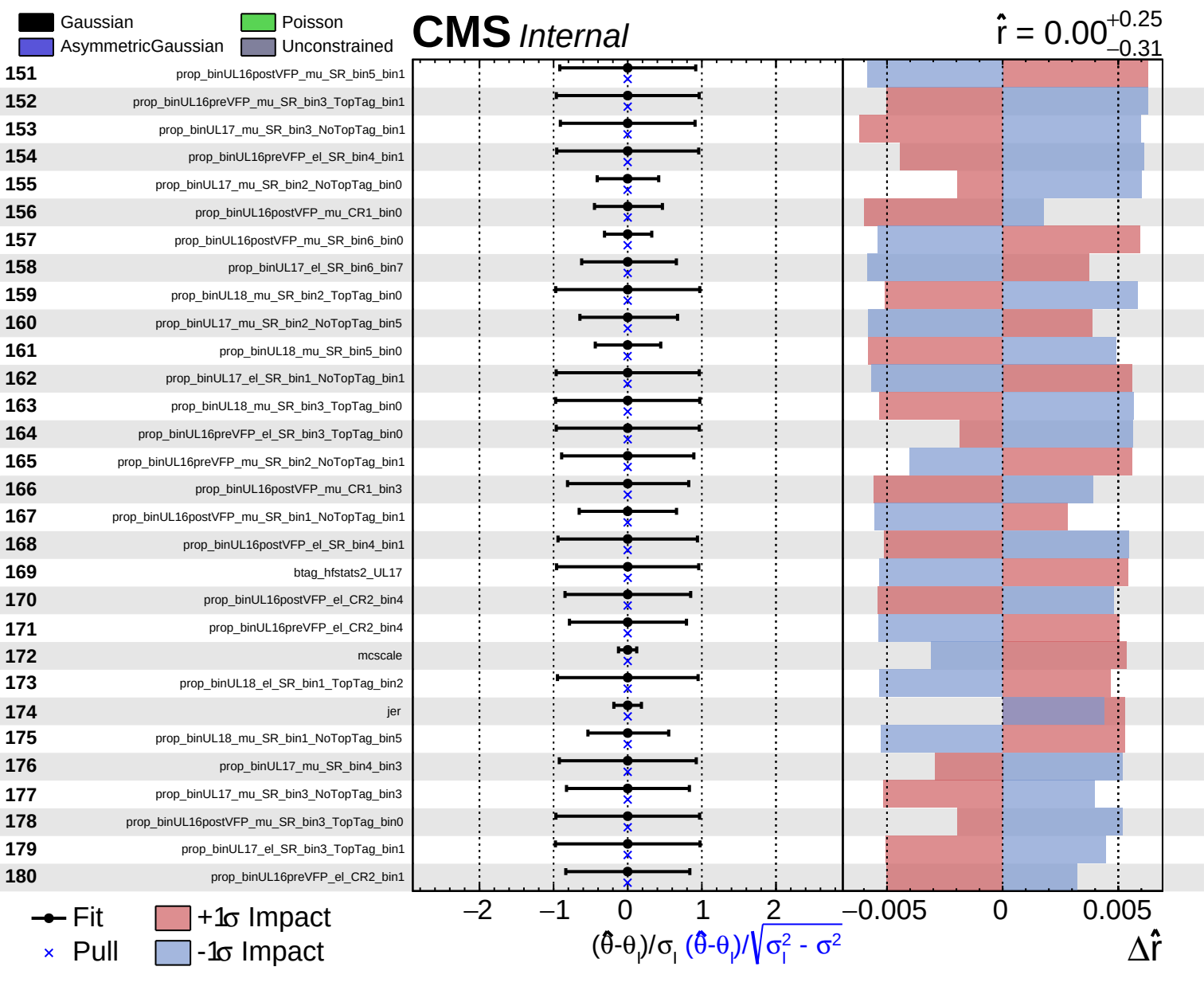

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
1 pdf
2 ttag_uncorr_UL18
3 ttag_uncorr_UL16preVFP
4 ttag_corr
5 ttag_uncorr_UL17
6 ttag_uncorr_UL16postVFP
0.0 +2.4 −2.0
0.0 +2.0 −1.8
0.0 +1.7 −2.0
0.0 +2.0 −1.8
0.0 +2.1 −1.9
7 tmistag
8 btag_hf
9 prefiring
10 wjets_rate
11 jec
12 prop_binUL18_el_SR_bin6_bin1
13 prop_binUL16preVFP_mu_SR_bin4_bin0
14 ele_trigger
15 pu
16 prop_binUL17_mu_SR_bin6_bin2
17 prop_binUL18_mu_SR_bin1_NoTopTag_bin1
18 prop_binUL18_mu_SR_bin6_bin1
19 prop_binUL18_mu_SR_bin4_bin2
20 prop_binUL16postVFP_el_CR2_bin0
21 st_rate
22 prop_binUL18_mu_CR2_bin0
23 ttbar_rate
24 prop_binUL16postVFP_mu_CR2_bin0
25 prop_binUL18_mu_SR_bin6_bin3
26 prop_binUL18_el_SR_bin5_bin0
27 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin0
28 mu_trigger
29 btag_cferr1
30 prop_binUL17_mu_CR1_bin6
−2 −1 0 1 2
(θ̂-θ_I)/σ_I
−0.1 0 0.1
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact

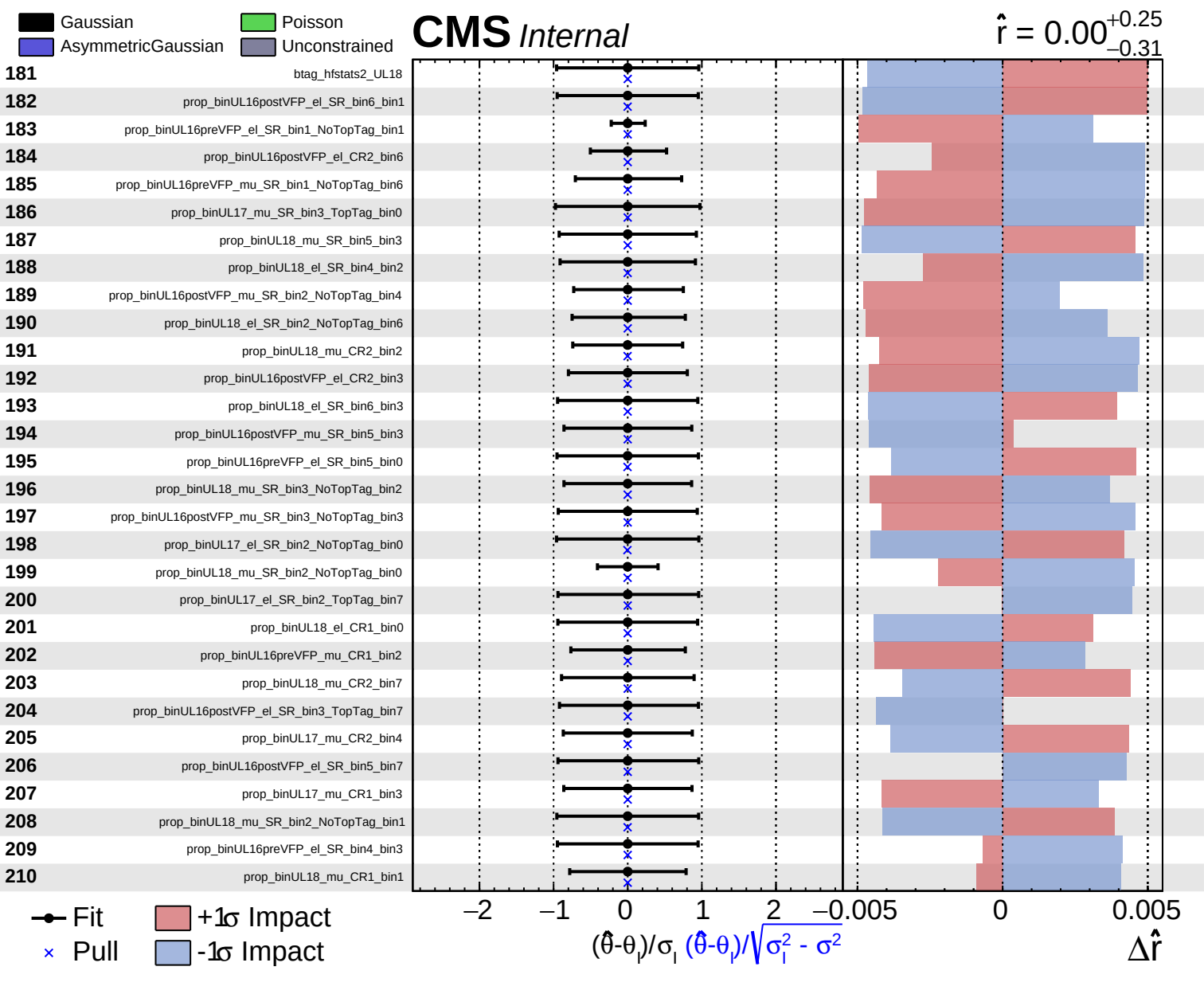

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
31 prop_binUL18_mu_SR_bin3_NoTopTag_bin0
32 prop_binUL18_mu_SR_bin6_bin5
33 prop_binUL17_mu_SR_bin1_NoTopTag_bin0
34 prop_binUL16preVFP_mu_CR2_bin0
35 btag_lfstats1_UL17
36 prop_binUL17_mu_SR_bin3_NoTopTag_bin0
37 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin0
38 btag_lf
39 prop_binUL18_mu_CR1_bin2
40 prop_binUL18_mu_SR_bin6_bin2
41 prop_binUL17_el_SR_bin6_bin1
42 prop_binUL16preVFP_mu_SR_bin6_bin3
43 prop_binUL17_mu_SR_bin6_bin1
44 prop_binUL16postVFP_mu_CR2_bin1
45 prop_binUL17_mu_SR_bin4_bin0
46 prop_binUL16preVFP_el_CR2_bin0
47 prop_binUL18_mu_CR2_bin1
48 prop_binUL18_mu_SR_bin4_bin0
49 prop_binUL16postVFP_mu_SR_bin6_bin1
50 prop_binUL17_mu_CR2_bin0
51 prop_binUL16postVFP_el_CR2_bin2
52 prop_binUL17_el_CR2_bin1
53 prop_binUL18_el_CR2_bin8
54 prop_binUL18_mu_SR_bin4_bin1
55 btag_lfstats2_UL16preVFP
56 mu_reco
57 prop_binUL17_el_CR2_bin3
58 prop_binUL16preVFP_el_CR2_bin3
59 btag_lfstats1_UL18
60 prop_binUL18_mu_SR_bin6_bin0
Fit
Pull
+1σ Impact
-1σ Impact
−2
−1
0
1
2
(θ̂-θ_I)/σ_I
−0.02
0
0.02
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

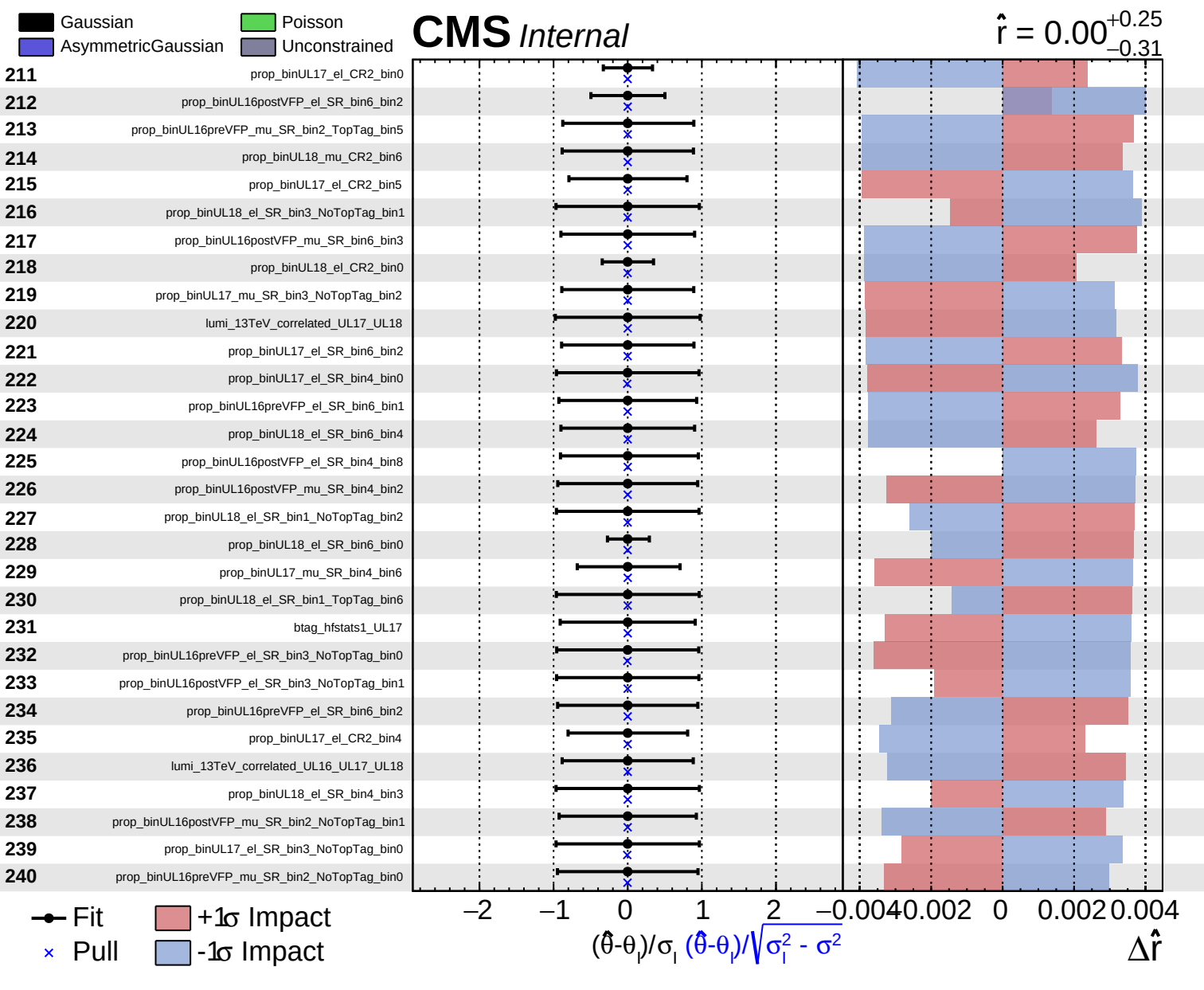

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
61 prop_binUL18_el_SR_bin6_bin2
62 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin2
63 lumi_13TeV_uncorrelated_UL17
64 prop_binUL17_el_SR_bin6_bin0
65 prop_binUL16preVFP_el_CR2_bin2
66 prop_binUL18_mu_SR_bin1_NoTopTag_bin0
67 ele_id
68 prop_binUL17_mu_CR2_bin8
69 prop_binUL16postVFP_mu_SR_bin5_bin0
70 prop_binUL16postVFP_el_CR2_bin1
71 prop_binUL18_mu_CR1_bin0
72 prop_binUL16preVFP_el_SR_bin4_bin0
73 prop_binUL18_el_SR_bin1_NoTopTag_bin0
74 others_rate
75 prop_binUL16preVFP_mu_SR_bin6_bin5
76 prop_binUL17_mu_SR_bin1_NoTopTag_bin1
77 prop_binUL17_mu_SR_bin1_NoTopTag_bin5
78 prop_binUL18_el_SR_bin3_NoTopTag_bin0
79 btag_lfstats2_UL18
80 btag_lfstats1_UL16postVFP
81 prop_binUL16preVFP_mu_SR_bin6_bin1
82 prop_binUL18_el_CR2_bin6
83 btag_cferr2
84 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin0
85 prop_binUL18_mu_CR2_bin3
86 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin3
87 prop_binUL16preVFP_mu_SR_bin6_bin0
88 prop_binUL18_mu_SR_bin4_bin4
89 prop_binUL18_el_CR2_bin2
90 prop_binUL18_el_CR2_bin1
−2
−1
0
1
2
−0.01
0
0.01
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

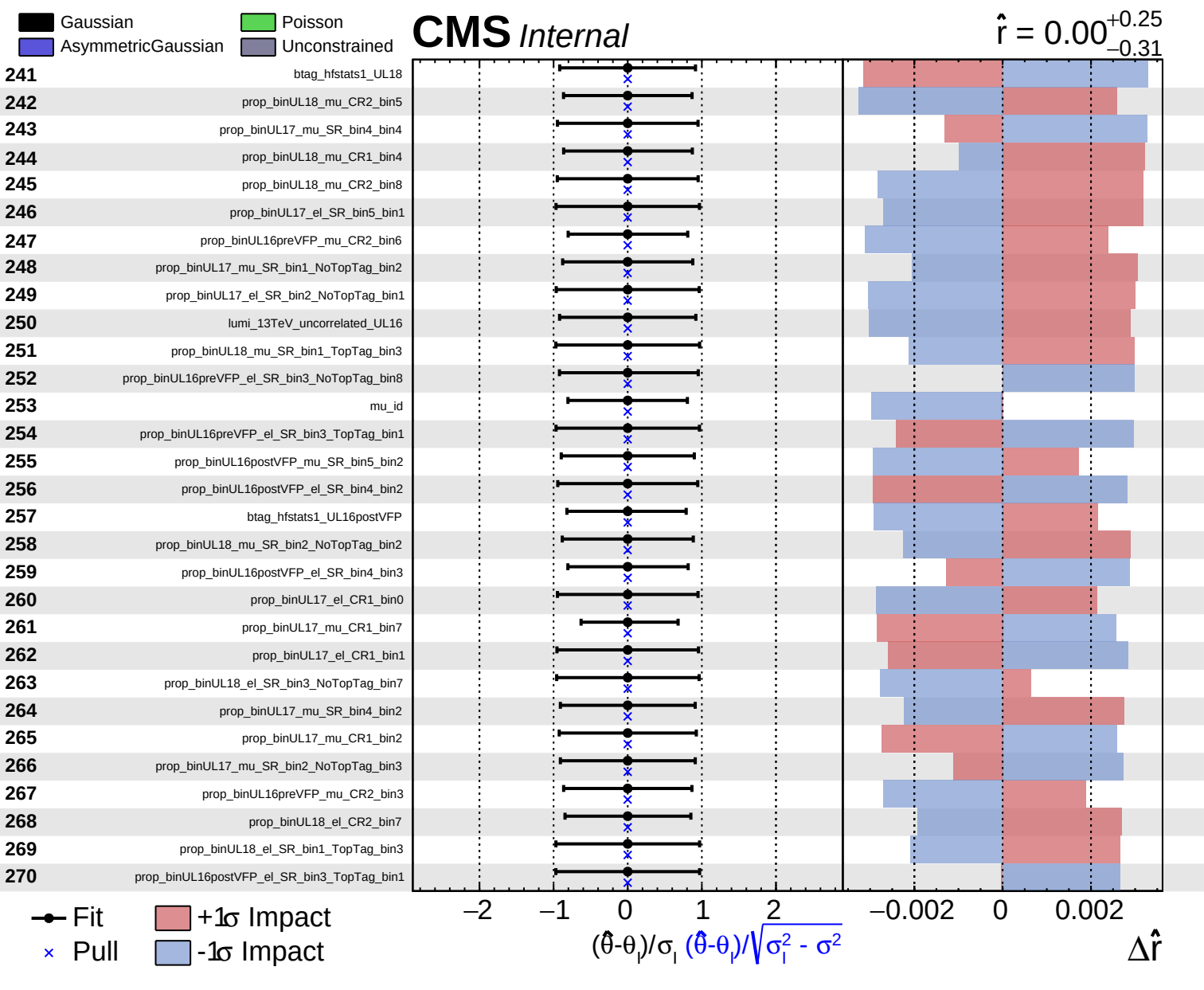

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
91 prop_binUL17_el_CR2_bin2
92 prop_binUL17_mu_CR1_bin0
93 btag_hfstats2_UL16preVFP
94 prop_binUL18_mu_SR_bin6_bin4
95 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin1
96 prop_binUL18_mu_CR1_bin8
97 btag_lfstats2_UL17
98 prop_binUL16postVFP_mu_SR_bin4_bin1
99 prop_binUL17_mu_SR_bin4_bin1
100 prop_binUL18_el_SR_bin3_TopTag_bin0
101 prop_binUL18_el_SR_bin2_NoTopTag_bin1
102 prop_binUL16postVFP_mu_SR_bin4_bin0
103 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin1
104 prop_binUL18_el_SR_bin4_bin0
105 ele_reco
106 prop_binUL18_el_SR_bin4_bin1
107 prop_binUL18_mu_SR_bin3_NoTopTag_bin3
108 prop_binUL17_mu_CR2_bin1
109 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin1
110 prop_binUL18_mu_SR_bin5_bin2
111 prop_binUL16postVFP_mu_SR_bin6_bin2
112 prop_binUL18_mu_SR_bin1_NoTopTag_bin2
113 prop_binUL16preVFP_el_SR_bin6_bin6
114 prop_binUL17_mu_CR1_bin1
115 prop_binUL17_mu_SR_bin1_NoTopTag_bin4
116 prop_binUL16preVFP_el_SR_bin6_bin0
117 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin0
118 prop_binUL18_el_SR_bin2_NoTopTag_bin0
119 prop_binUL17_mu_SR_bin6_bin0
120 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin0
Fit
Pull
+1σ Impact
-1σ Impact
−2 −1 0 1 2
(θ̂-θ_I)/σ_I
−0.01 0 0.01
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

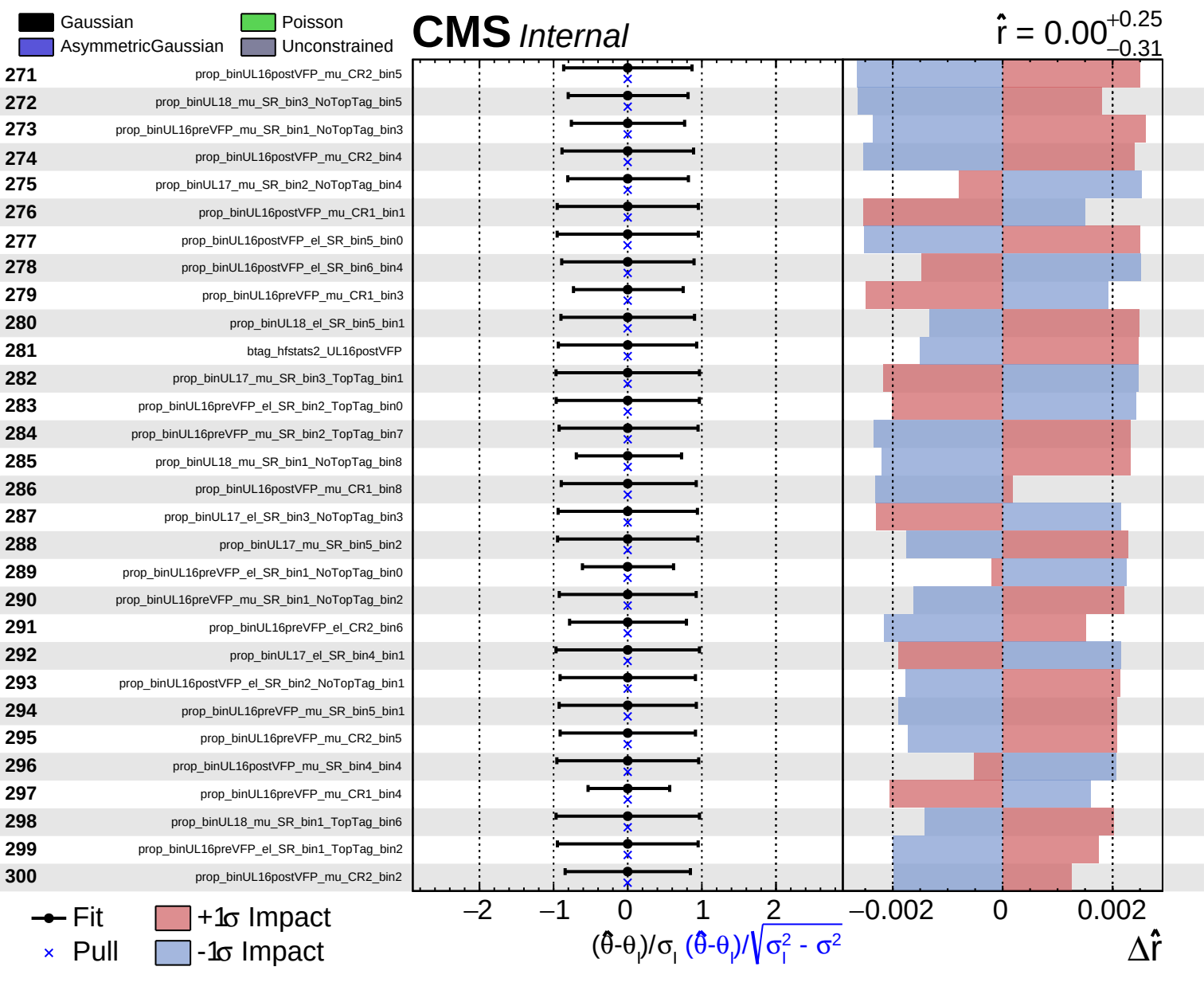

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
121 prop_binUL17_mu_SR_bin5_bin1
122 prop_binUL18_mu_CR2_bin4
123 prop_binUL18_mu_SR_bin1_NoTopTag_bin7
124 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin0
125 prop_binUL18_mu_SR_bin3_NoTopTag_bin1
126 prop_binUL16postVFP_el_SR_bin6_bin0
127 prop_binUL18_el_SR_bin1_NoTopTag_bin1
128 btag_hfstats1_UL16preVFP
129 prop_binUL17_el_SR_bin1_TopTag_bin6
130 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin0
131 prop_binUL16preVFP_mu_CR1_bin0
132 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin1
133 prop_binUL17_el_SR_bin1_NoTopTag_bin0
134 prop_binUL18_el_SR_bin5_bin2
135 prop_binUL18_mu_SR_bin3_TopTag_bin1
136 prop_binUL17_mu_SR_bin2_NoTopTag_bin1
137 prop_binUL17_mu_SR_bin1_NoTopTag_bin3
138 prop_binUL18_mu_SR_bin5_bin1
139 prop_binUL17_el_SR_bin4_bin4
140 prop_binUL16preVFP_mu_SR_bin4_bin1
141 btag_lfstats2_UL16postVFP
142 prop_binUL16preVFP_mu_SR_bin6_bin2
143 prop_binUL17_mu_SR_bin5_bin0
144 prop_binUL17_mu_SR_bin1_TopTag_bin4
145 prop_binUL17_mu_CR2_bin7
146 prop_binUL18_el_SR_bin3_NoTopTag_bin3
147 lumi_13TeV_uncorrelated_UL18
148 prop_binUL18_mu_SR_bin2_NoTopTag_bin4
149 prop_binUL17_mu_SR_bin6_bin3
150 prop_binUL17_mu_SR_bin1_NoTopTag_bin6
−2
−1
0
1
2
(θ̂-θ_I)/σ_I
−0.005
0
0.005
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact

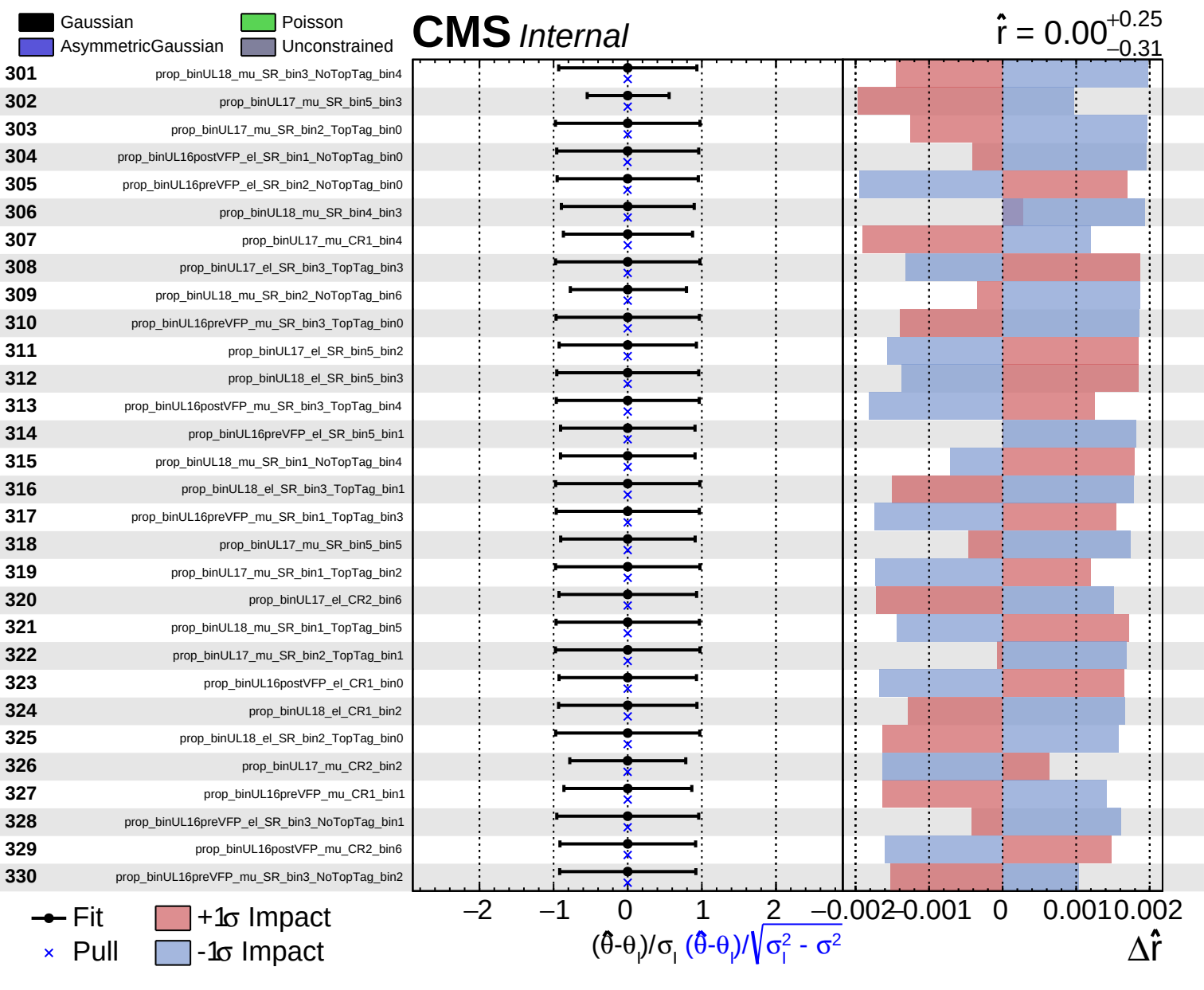

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
151 prop_binUL16postVFP_mu_SR_bin5_bin1
152 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin1
153 prop_binUL17_mu_SR_bin3_NoTopTag_bin1
154 prop_binUL16preVFP_el_SR_bin4_bin1
155 prop_binUL17_mu_SR_bin2_NoTopTag_bin0
156 prop_binUL16postVFP_mu_CR1_bin0
157 prop_binUL16postVFP_mu_SR_bin6_bin0
158 prop_binUL17_el_SR_bin6_bin7
159 prop_binUL18_mu_SR_bin2_TopTag_bin0
160 prop_binUL17_mu_SR_bin2_NoTopTag_bin5
161 prop_binUL18_mu_SR_bin5_bin0
162 prop_binUL17_el_SR_bin1_NoTopTag_bin1
163 prop_binUL18_mu_SR_bin3_TopTag_bin0
164 prop_binUL16preVFP_el_SR_bin3_TopTag_bin0
165 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin1
166 prop_binUL16postVFP_mu_CR1_bin3
167 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin1
168 prop_binUL16postVFP_el_SR_bin4_bin1
169 btag_hfstats2_UL17
170 prop_binUL16postVFP_el_CR2_bin4
171 prop_binUL16preVFP_el_CR2_bin4
172 mcscale
173 prop_binUL18_el_SR_bin1_TopTag_bin2
174 jer
175 prop_binUL18_mu_SR_bin1_NoTopTag_bin5
176 prop_binUL17_mu_SR_bin4_bin3
177 prop_binUL17_mu_SR_bin3_NoTopTag_bin3
178 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin0
179 prop_binUL17_el_SR_bin3_TopTag_bin1
180 prop_binUL16preVFP_el_CR2_bin1
Fit
Pull
+1σ Impact
-1σ Impact
−2
−1
0
1
2
(θ̂-θ_I)/σ_I
−0.005
0
0.005
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

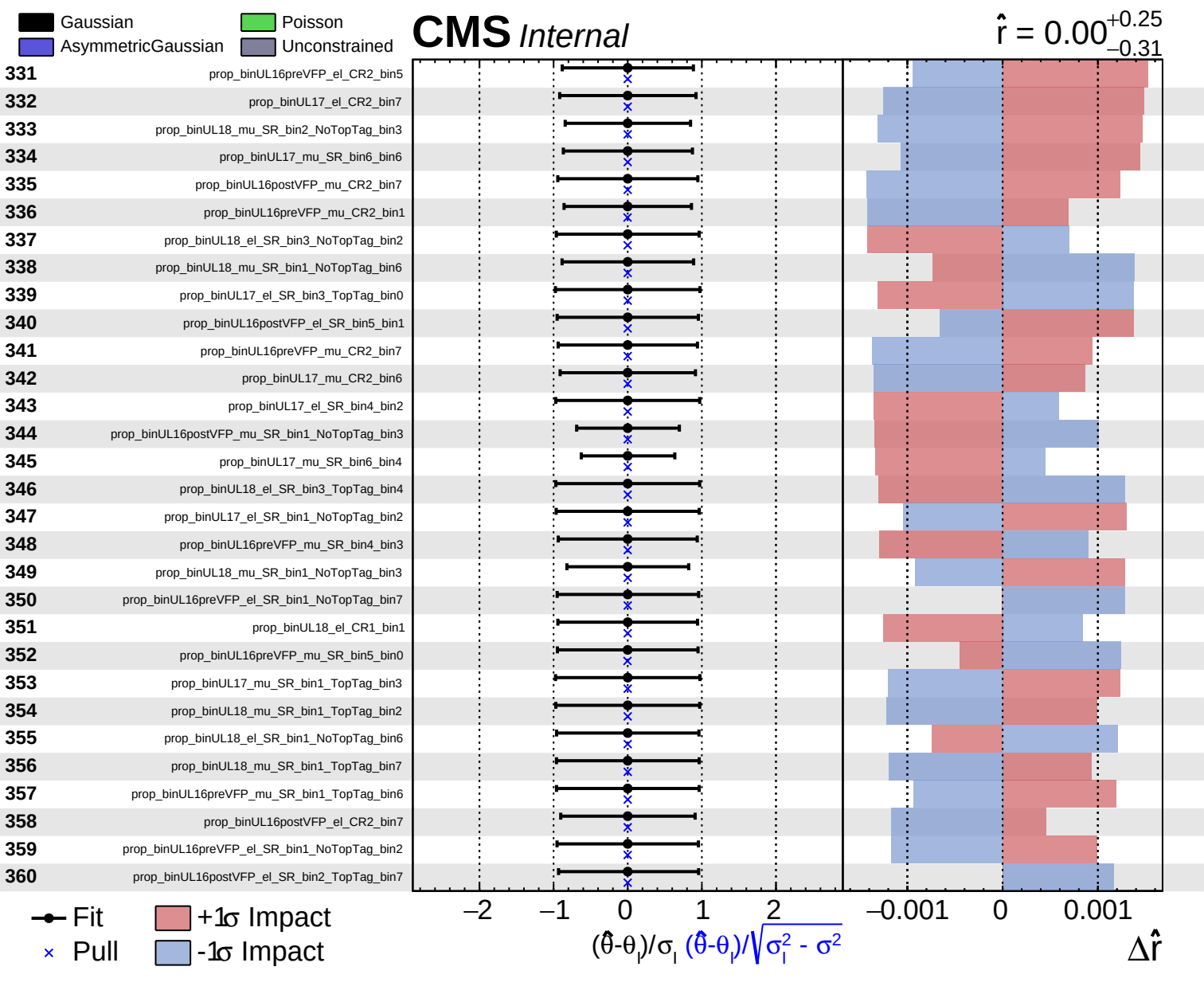

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
181 btag_hfstats2_UL18
182 prop_binUL16postVFP_el_SR_bin6_bin1
183 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin1
184 prop_binUL16postVFP_el_CR2_bin6
185 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin6
186 prop_binUL17_mu_SR_bin3_TopTag_bin0
187 prop_binUL18_mu_SR_bin5_bin3
188 prop_binUL18_el_SR_bin4_bin2
189 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin4
190 prop_binUL18_el_SR_bin2_NoTopTag_bin6
191 prop_binUL18_mu_CR2_bin2
192 prop_binUL16postVFP_el_CR2_bin3
193 prop_binUL18_el_SR_bin6_bin3
194 prop_binUL16postVFP_mu_SR_bin5_bin3
195 prop_binUL16preVFP_el_SR_bin5_bin0
196 prop_binUL18_mu_SR_bin3_NoTopTag_bin2
197 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin3
198 prop_binUL17_el_SR_bin2_NoTopTag_bin0
199 prop_binUL18_mu_SR_bin2_NoTopTag_bin0
200 prop_binUL17_el_SR_bin2_TopTag_bin7
201 prop_binUL18_el_CR1_bin0
202 prop_binUL16preVFP_mu_CR1_bin2
203 prop_binUL18_mu_CR2_bin7
204 prop_binUL16postVFP_el_SR_bin3_TopTag_bin7
205 prop_binUL17_mu_CR2_bin4
206 prop_binUL16postVFP_el_SR_bin5_bin7
207 prop_binUL17_mu_CR1_bin3
208 prop_binUL18_mu_SR_bin2_NoTopTag_bin1
209 prop_binUL16preVFP_el_SR_bin4_bin3
210 prop_binUL18_mu_CR1_bin1
−2 −1 0 1 2
(θ̂-θ_I)/σ_I
−0.005 0 0.005
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact

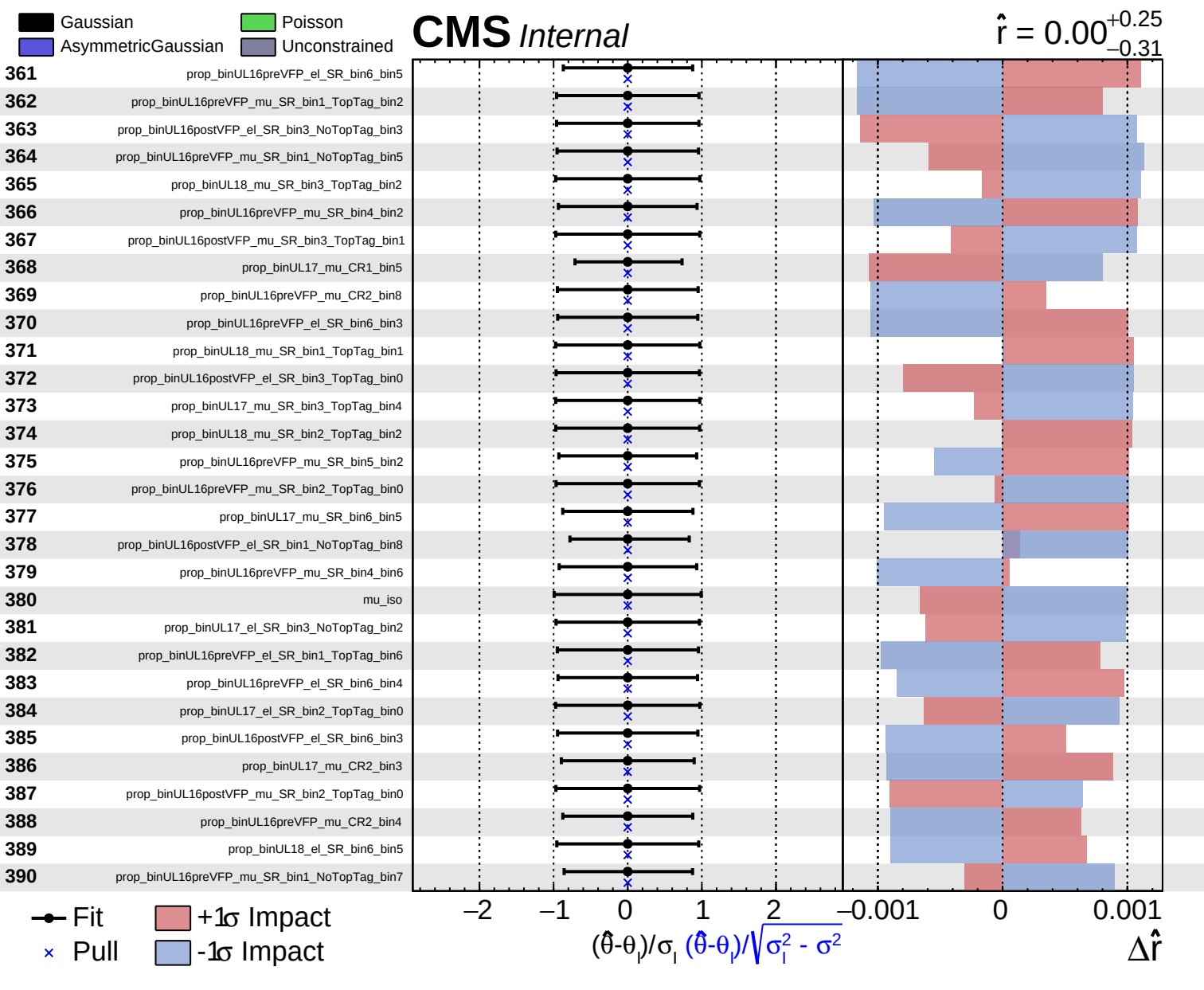

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
211 prop_binUL17_el_CR2_bin0
212 prop_binUL16postVFP_el_SR_bin6_bin2
213 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin5
214 prop_binUL18_mu_CR2_bin6
215 prop_binUL17_el_CR2_bin5
216 prop_binUL18_el_SR_bin3_NoTopTag_bin1
217 prop_binUL16postVFP_mu_SR_bin6_bin3
218 prop_binUL18_el_CR2_bin0
219 prop_binUL17_mu_SR_bin3_NoTopTag_bin2
220 lumi_13TeV_correlated_UL17_UL18
221 prop_binUL17_el_SR_bin6_bin2
222 prop_binUL17_el_SR_bin4_bin0
223 prop_binUL16preVFP_el_SR_bin6_bin1
224 prop_binUL18_el_SR_bin6_bin4
225 prop_binUL16postVFP_el_SR_bin4_bin8
226 prop_binUL16postVFP_mu_SR_bin4_bin2
227 prop_binUL18_el_SR_bin1_NoTopTag_bin2
228 prop_binUL18_el_SR_bin6_bin0
229 prop_binUL17_mu_SR_bin4_bin6
230 prop_binUL18_el_SR_bin1_TopTag_bin6
231 btag_hfstats1_UL17
232 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin0
233 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin1
234 prop_binUL16preVFP_el_SR_bin6_bin2
235 prop_binUL17_el_CR2_bin4
236 lumi_13TeV_correlated_UL16_UL17_UL18
237 prop_binUL18_el_SR_bin4_bin3
238 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin1
239 prop_binUL17_el_SR_bin3_NoTopTag_bin0
240 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin0
−2 −1 0 1 2
−0.004 −0.002 0 0.002 0.004
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

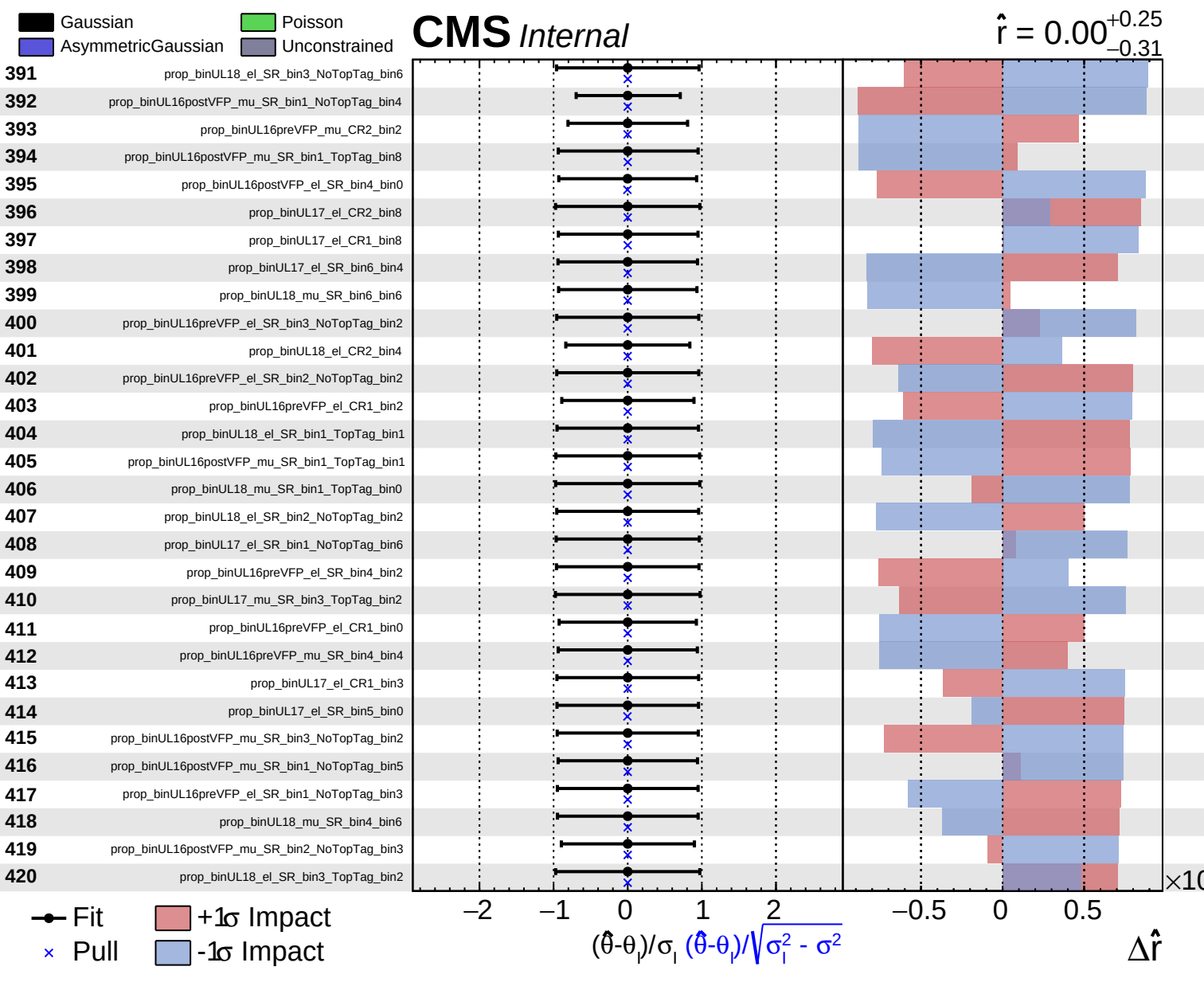

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
241 btag_hfstats1_UL18
242 prop_binUL18_mu_CR2_bin5
243 prop_binUL17_mu_SR_bin4_bin4
244 prop_binUL18_mu_CR1_bin4
245 prop_binUL18_mu_CR2_bin8
246 prop_binUL17_el_SR_bin5_bin1
247 prop_binUL16preVFP_mu_CR2_bin6
248 prop_binUL17_mu_SR_bin1_NoTopTag_bin2
249 prop_binUL17_el_SR_bin2_NoTopTag_bin1
250 lumi_13TeV_uncorrelated_UL16
251 prop_binUL18_mu_SR_bin1_TopTag_bin3
252 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin8
253 mu_id
254 prop_binUL16preVFP_el_SR_bin3_TopTag_bin1
255 prop_binUL16postVFP_mu_SR_bin5_bin2
256 prop_binUL16postVFP_el_SR_bin4_bin2
257 btag_hfstats1_UL16postVFP
258 prop_binUL18_mu_SR_bin2_NoTopTag_bin2
259 prop_binUL16postVFP_el_SR_bin4_bin3
260 prop_binUL17_el_CR1_bin0
261 prop_binUL17_mu_CR1_bin7
262 prop_binUL17_el_CR1_bin1
263 prop_binUL18_el_SR_bin3_NoTopTag_bin7
264 prop_binUL17_mu_SR_bin4_bin2
265 prop_binUL17_mu_CR1_bin2
266 prop_binUL17_mu_SR_bin2_NoTopTag_bin3
267 prop_binUL16preVFP_mu_CR2_bin3
268 prop_binUL18_el_CR2_bin7
269 prop_binUL18_el_SR_bin1_TopTag_bin3
270 prop_binUL16postVFP_el_SR_bin3_TopTag_bin1
Fit
Pull
+1σ Impact
-1σ Impact
−2
−1
0
1
2
(θ̂-θ_I)/σ_I
−0.002
0
0.002
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

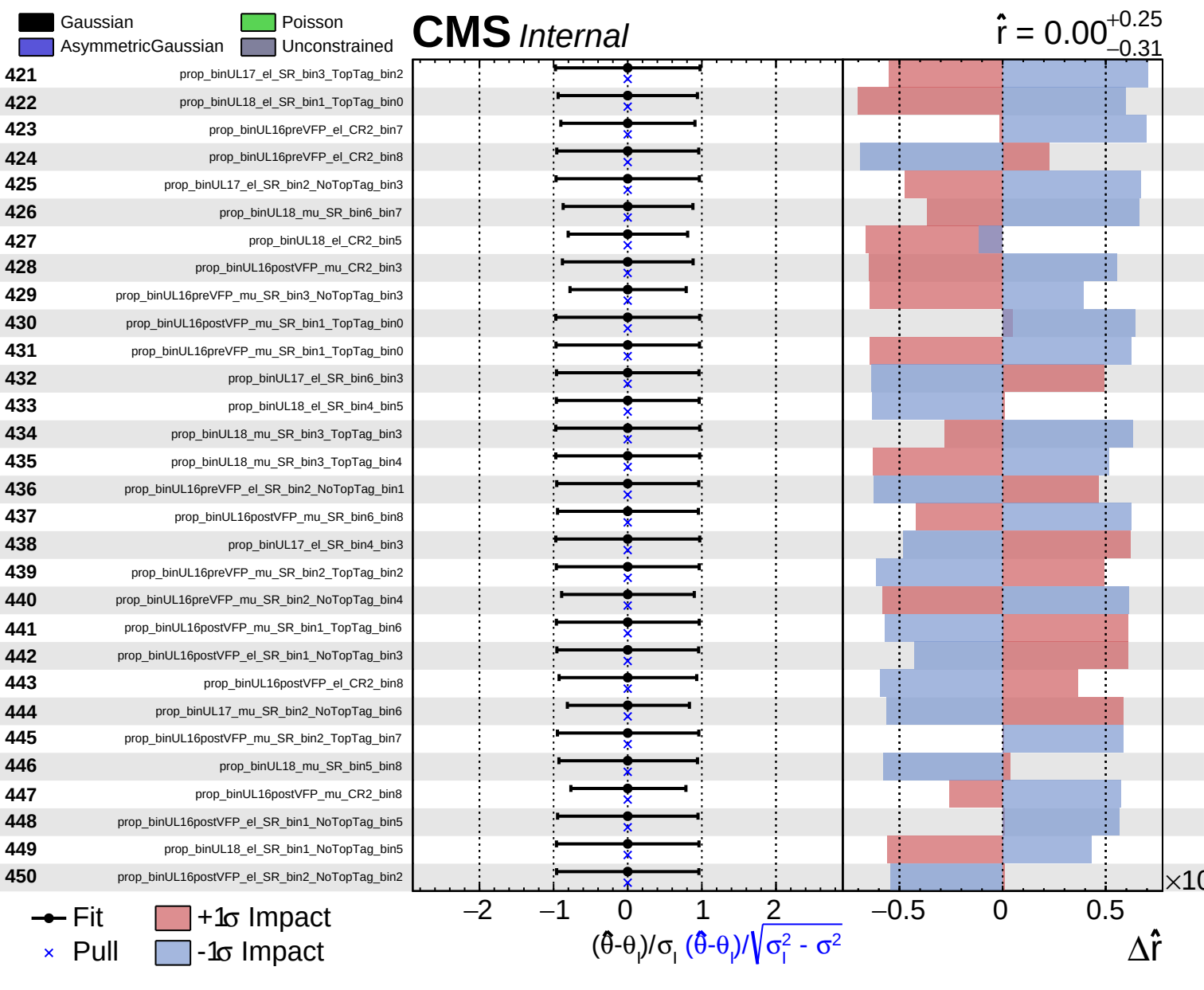

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
271 prop_binUL16postVFP_mu_CR2_bin5
272 prop_binUL18_mu_SR_bin3_NoTopTag_bin5
273 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin3
274 prop_binUL16postVFP_mu_CR2_bin4
275 prop_binUL17_mu_SR_bin2_NoTopTag_bin4
276 prop_binUL16postVFP_mu_CR1_bin1
277 prop_binUL16postVFP_el_SR_bin5_bin0
278 prop_binUL16postVFP_el_SR_bin6_bin4
279 prop_binUL16preVFP_mu_CR1_bin3
280 prop_binUL18_el_SR_bin5_bin1
281 btag_hfstats2_UL16postVFP
282 prop_binUL17_mu_SR_bin3_TopTag_bin1
283 prop_binUL16preVFP_el_SR_bin2_TopTag_bin0
284 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin7
285 prop_binUL18_mu_SR_bin1_NoTopTag_bin8
286 prop_binUL16postVFP_mu_CR1_bin8
287 prop_binUL17_el_SR_bin3_NoTopTag_bin3
288 prop_binUL17_mu_SR_bin5_bin2
289 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin0
290 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin2
291 prop_binUL16preVFP_el_CR2_bin6
292 prop_binUL17_el_SR_bin4_bin1
293 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin1
294 prop_binUL16preVFP_mu_SR_bin5_bin1
295 prop_binUL16preVFP_mu_CR2_bin5
296 prop_binUL16postVFP_mu_SR_bin4_bin4
297 prop_binUL16preVFP_mu_CR1_bin4
298 prop_binUL18_mu_SR_bin1_TopTag_bin6
299 prop_binUL16preVFP_el_SR_bin1_TopTag_bin2
300 prop_binUL16postVFP_mu_CR2_bin2
Fit
Pull
+1σ Impact
-1σ Impact
−2
−1
0
1
2
(θ̂-θ_I)/σ_I
−0.002
0
0.002
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

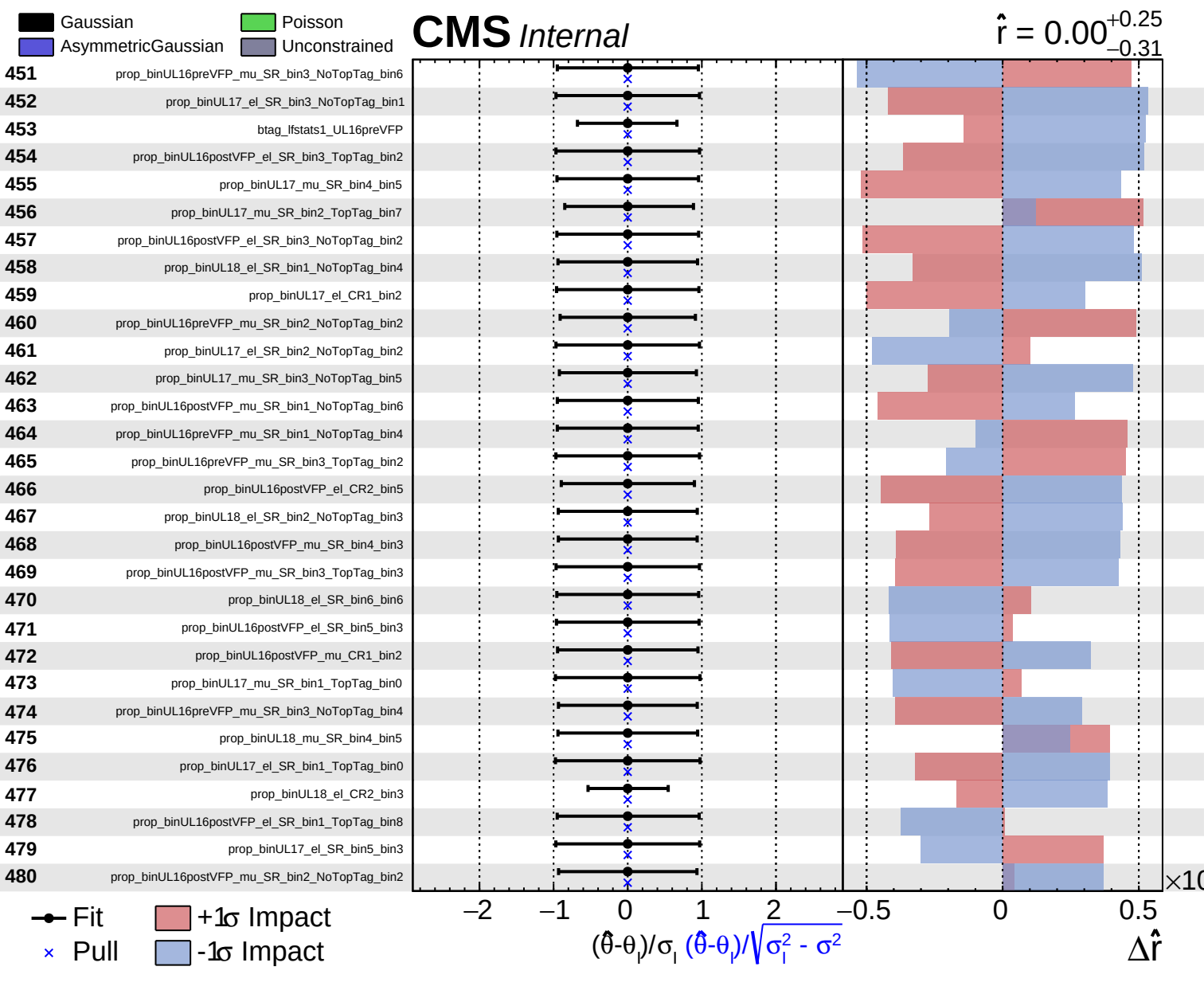

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
301 prop_binUL18_mu_SR_bin3_NoTopTag_bin4
302 prop_binUL17_mu_SR_bin5_bin3
303 prop_binUL17_mu_SR_bin2_TopTag_bin0
304 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin0
305 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin0
306 prop_binUL18_mu_SR_bin4_bin3
307 prop_binUL17_mu_CR1_bin4
308 prop_binUL17_el_SR_bin3_TopTag_bin3
309 prop_binUL18_mu_SR_bin2_NoTopTag_bin6
310 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin0
311 prop_binUL17_el_SR_bin5_bin2
312 prop_binUL18_el_SR_bin5_bin3
313 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin4
314 prop_binUL16preVFP_el_SR_bin5_bin1
315 prop_binUL18_mu_SR_bin1_NoTopTag_bin4
316 prop_binUL18_el_SR_bin3_TopTag_bin1
317 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin3
318 prop_binUL17_mu_SR_bin5_bin5
319 prop_binUL17_mu_SR_bin1_TopTag_bin2
320 prop_binUL17_el_CR2_bin6
321 prop_binUL18_mu_SR_bin1_TopTag_bin5
322 prop_binUL17_mu_SR_bin2_TopTag_bin1
323 prop_binUL16postVFP_el_CR1_bin0
324 prop_binUL18_el_CR1_bin2
325 prop_binUL18_el_SR_bin2_TopTag_bin0
326 prop_binUL17_mu_CR2_bin2
327 prop_binUL16preVFP_mu_CR1_bin1
328 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin1
329 prop_binUL16postVFP_mu_CR2_bin6
330 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin2
Fit
Pull
+1σ Impact
-1σ Impact
−2 −1 0 1 2
(θ̂-θ_I)/σ_I
−0.002 −0.001 0 0.001 0.002
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

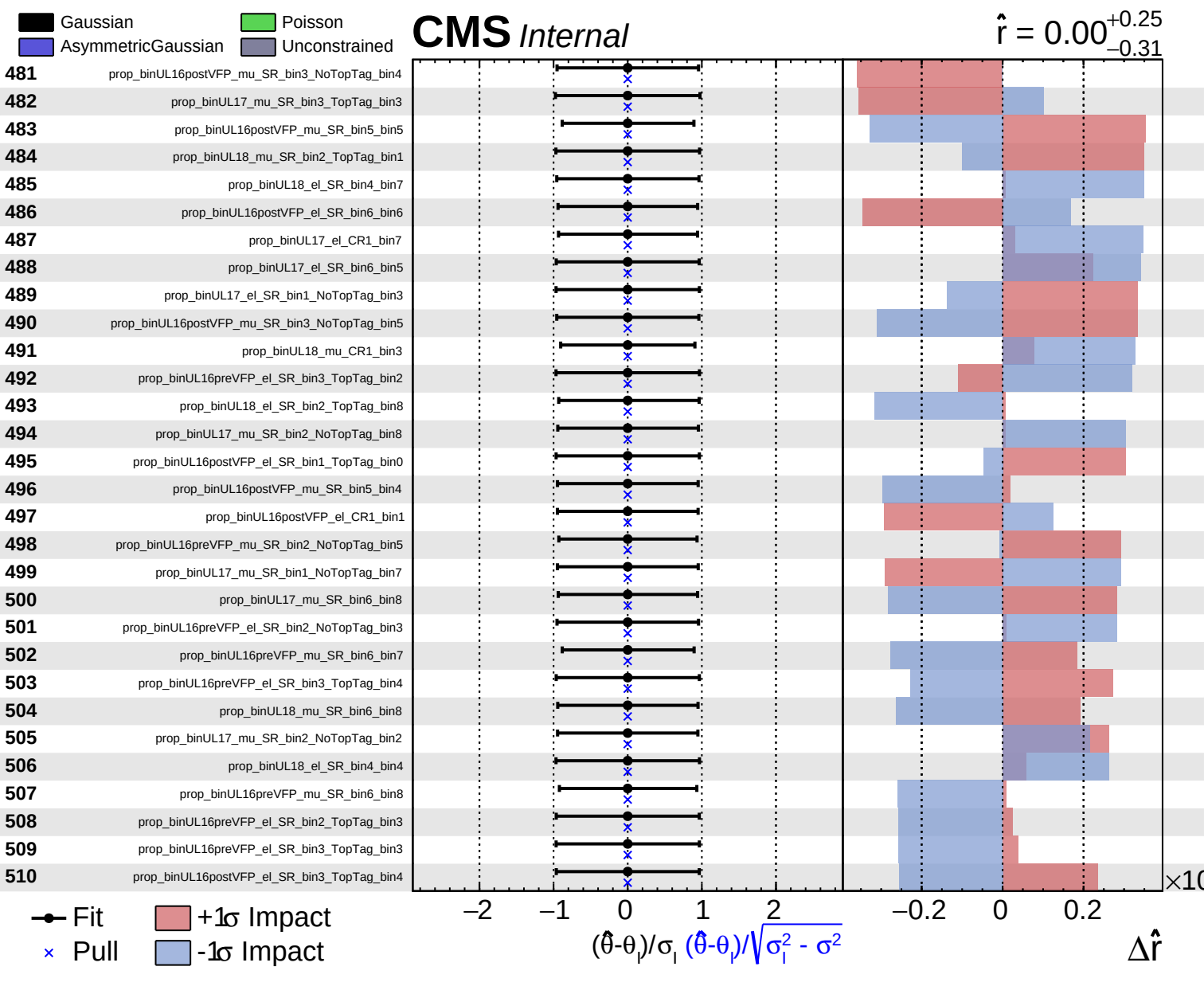

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
331 prop_binUL16preVFP_el_CR2_bin5
332 prop_binUL17_el_CR2_bin7
333 prop_binUL18_mu_SR_bin2_NoTopTag_bin3
334 prop_binUL17_mu_SR_bin6_bin6
335 prop_binUL16postVFP_mu_CR2_bin7
336 prop_binUL16preVFP_mu_CR2_bin1
337 prop_binUL18_el_SR_bin3_NoTopTag_bin2
338 prop_binUL18_mu_SR_bin1_NoTopTag_bin6
339 prop_binUL17_el_SR_bin3_TopTag_bin0
340 prop_binUL16postVFP_el_SR_bin5_bin1
341 prop_binUL16preVFP_mu_CR2_bin7
342 prop_binUL17_mu_CR2_bin6
343 prop_binUL17_el_SR_bin4_bin2
344 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin3
345 prop_binUL17_mu_SR_bin6_bin4
346 prop_binUL18_el_SR_bin3_TopTag_bin4
347 prop_binUL17_el_SR_bin1_NoTopTag_bin2
348 prop_binUL16preVFP_mu_SR_bin4_bin3
349 prop_binUL18_mu_SR_bin1_NoTopTag_bin3
350 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin7
351 prop_binUL18_el_CR1_bin1
352 prop_binUL16preVFP_mu_SR_bin5_bin0
353 prop_binUL17_mu_SR_bin1_TopTag_bin3
354 prop_binUL18_mu_SR_bin1_TopTag_bin2
355 prop_binUL18_el_SR_bin1_NoTopTag_bin6
356 prop_binUL18_mu_SR_bin1_TopTag_bin7
357 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin6
358 prop_binUL16postVFP_el_CR2_bin7
359 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin2
360 prop_binUL16postVFP_el_SR_bin2_TopTag_bin7
−2
−1
0
1
2
−0.001
0
0.001
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact

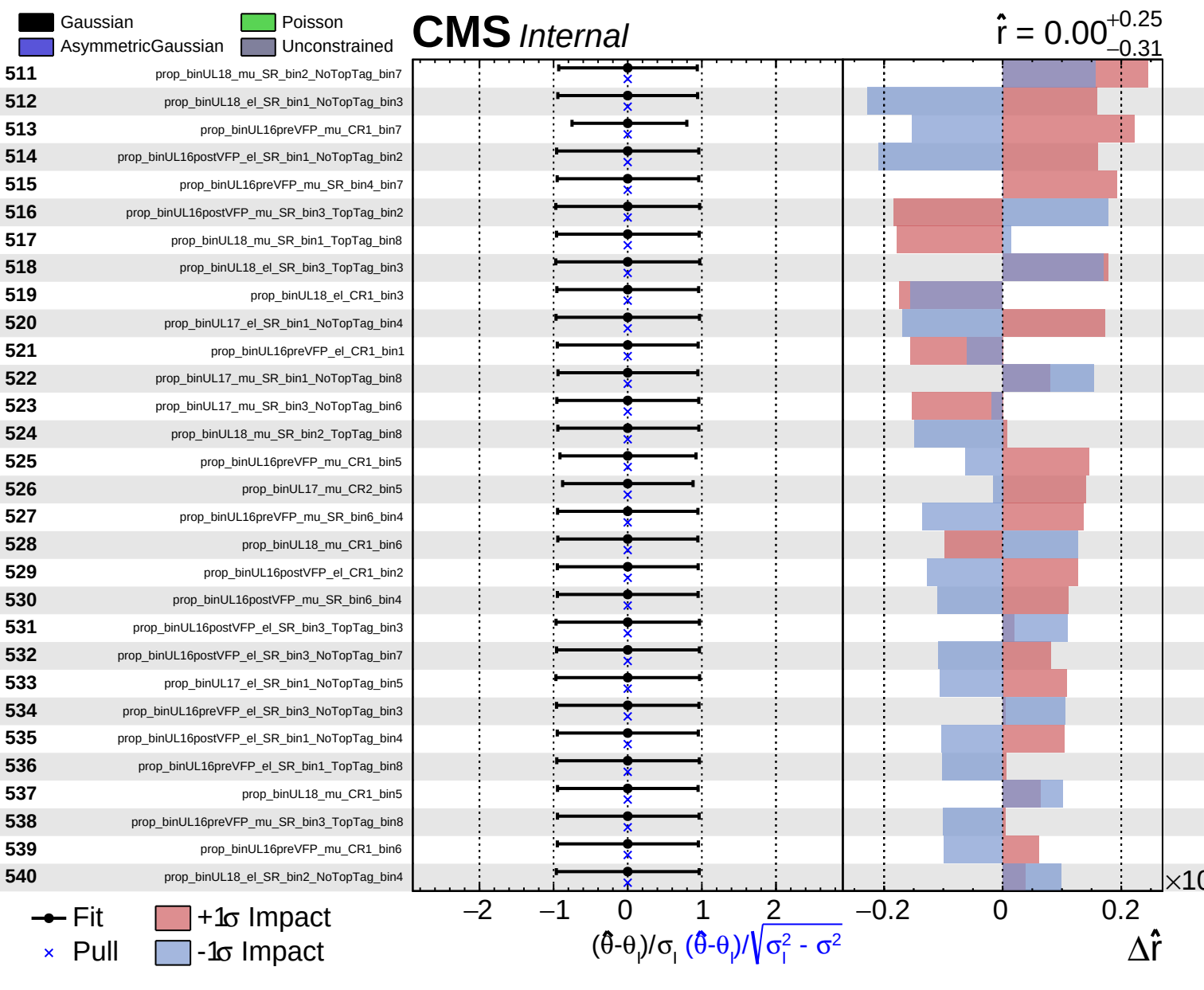

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00+0.25−0.31
361 prop_binUL16preVFP_el_SR_bin6_bin5
362 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin2
363 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin3
364 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin5
365 prop_binUL18_mu_SR_bin3_TopTag_bin2
366 prop_binUL16preVFP_mu_SR_bin4_bin2
367 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin1
368 prop_binUL17_mu_CR1_bin5
369 prop_binUL16preVFP_mu_CR2_bin8
370 prop_binUL16preVFP_el_SR_bin6_bin3
371 prop_binUL18_mu_SR_bin1_TopTag_bin1
372 prop_binUL16postVFP_el_SR_bin3_TopTag_bin0
373 prop_binUL17_mu_SR_bin3_TopTag_bin4
374 prop_binUL18_mu_SR_bin2_TopTag_bin2
375 prop_binUL16preVFP_mu_SR_bin5_bin2
376 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin0
377 prop_binUL17_mu_SR_bin6_bin5
378 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin8
379 prop_binUL16preVFP_mu_SR_bin4_bin6
380 mu_iso
381 prop_binUL17_el_SR_bin3_NoTopTag_bin2
382 prop_binUL16preVFP_el_SR_bin1_TopTag_bin6
383 prop_binUL16preVFP_el_SR_bin6_bin4
384 prop_binUL17_el_SR_bin2_TopTag_bin0
385 prop_binUL16postVFP_el_SR_bin6_bin3
386 prop_binUL17_mu_CR2_bin3
387 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin0
388 prop_binUL16preVFP_mu_CR2_bin4
389 prop_binUL18_el_SR_bin6_bin5
390 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin7
−2
−1
0
1
2
−0.001
0
0.001
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact

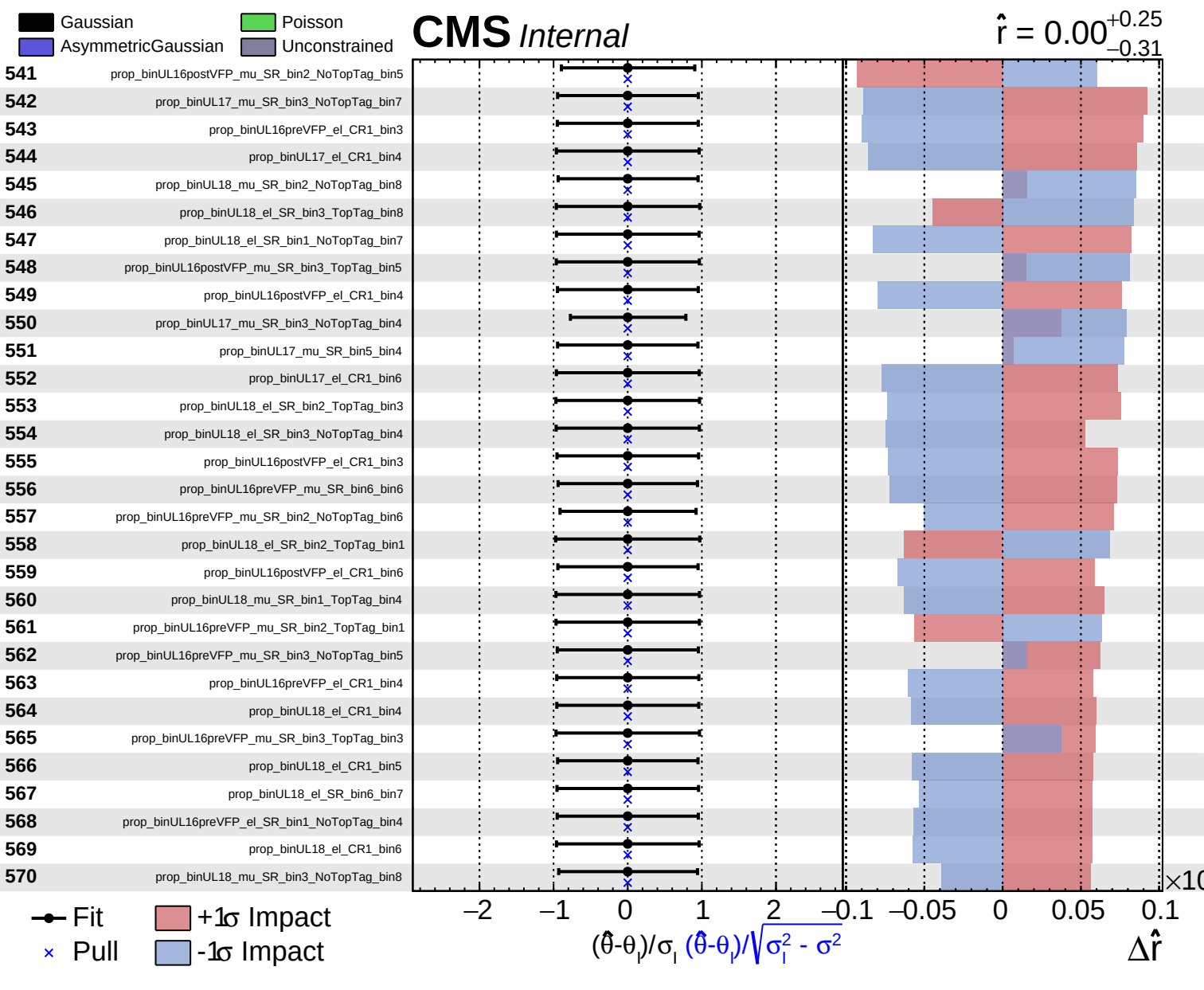

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
391 prop_binUL18_el_SR_bin3_NoTopTag_bin6
392 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin4
393 prop_binUL16preVFP_mu_CR2_bin2
394 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin8
395 prop_binUL16postVFP_el_SR_bin4_bin0
396 prop_binUL17_el_CR2_bin8
397 prop_binUL17_el_CR1_bin8
398 prop_binUL17_el_SR_bin6_bin4
399 prop_binUL18_mu_SR_bin6_bin6
400 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin2
401 prop_binUL18_el_CR2_bin4
402 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin2
403 prop_binUL16preVFP_el_CR1_bin2
404 prop_binUL18_el_SR_bin1_TopTag_bin1
405 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin1
406 prop_binUL18_mu_SR_bin1_TopTag_bin0
407 prop_binUL18_el_SR_bin2_NoTopTag_bin2
408 prop_binUL17_el_SR_bin1_NoTopTag_bin6
409 prop_binUL16preVFP_el_SR_bin4_bin2
410 prop_binUL17_mu_SR_bin3_TopTag_bin2
411 prop_binUL16preVFP_el_CR1_bin0
412 prop_binUL16preVFP_mu_SR_bin4_bin4
413 prop_binUL17_el_CR1_bin3
414 prop_binUL17_el_SR_bin5_bin0
415 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin2
416 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin5
417 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin3
418 prop_binUL18_mu_SR_bin4_bin6
419 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin3
420 prop_binUL18_el_SR_bin3_TopTag_bin2
×10
−2
−1
0
1
2
−0.5
0
0.5
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

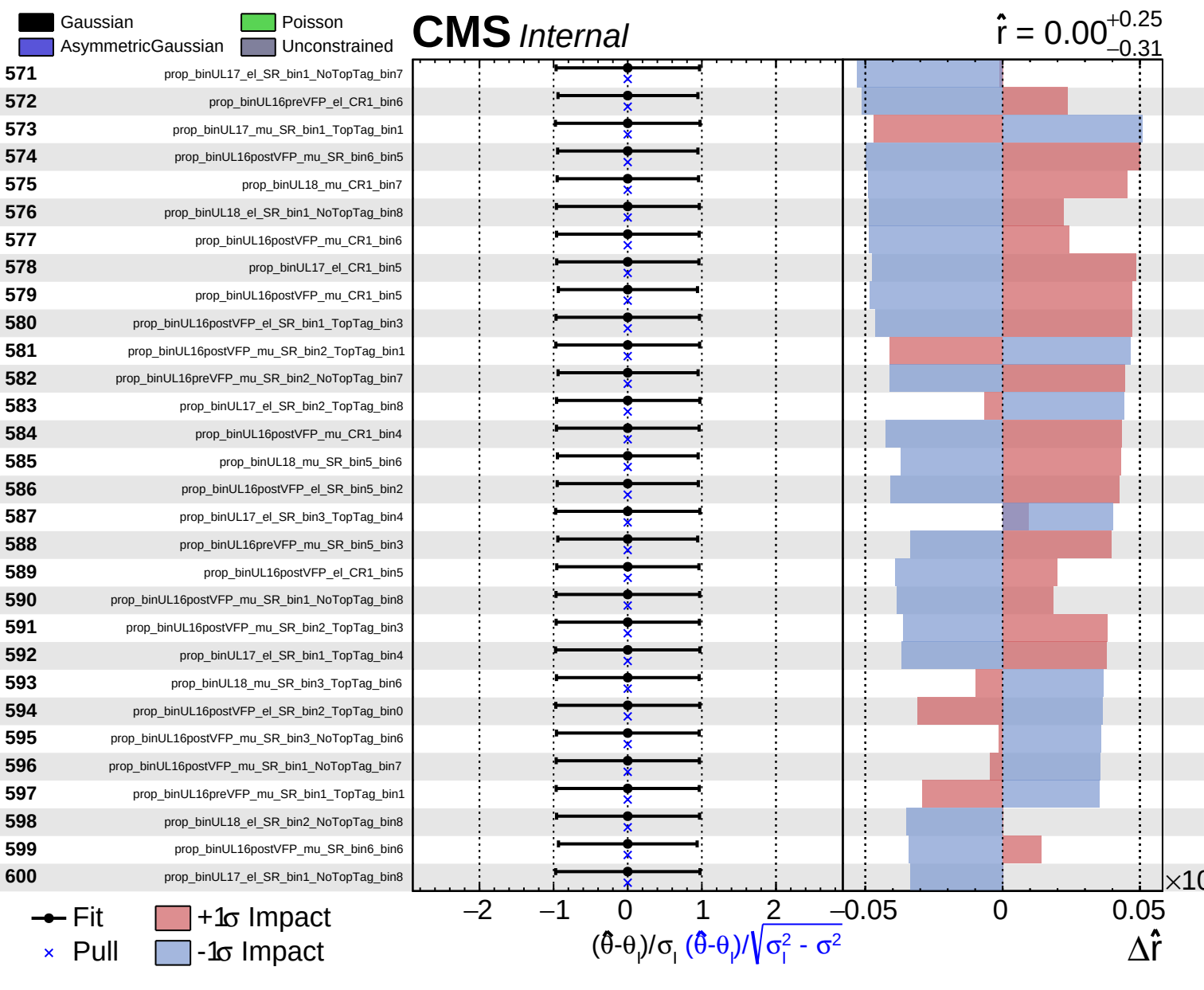

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
421 prop_binUL17_el_SR_bin3_TopTag_bin2
422 prop_binUL18_el_SR_bin1_TopTag_bin0
423 prop_binUL16preVFP_el_CR2_bin7
424 prop_binUL16preVFP_el_CR2_bin8
425 prop_binUL17_el_SR_bin2_NoTopTag_bin3
426 prop_binUL18_mu_SR_bin6_bin7
427 prop_binUL18_el_CR2_bin5
428 prop_binUL16postVFP_mu_CR2_bin3
429 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin3
430 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin0
431 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin0
432 prop_binUL17_el_SR_bin6_bin3
433 prop_binUL18_el_SR_bin4_bin5
434 prop_binUL18_mu_SR_bin3_TopTag_bin3
435 prop_binUL18_mu_SR_bin3_TopTag_bin4
436 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin1
437 prop_binUL16postVFP_mu_SR_bin6_bin8
438 prop_binUL17_el_SR_bin4_bin3
439 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin2
440 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin4
441 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin6
442 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin3
443 prop_binUL16postVFP_el_CR2_bin8
444 prop_binUL17_mu_SR_bin2_NoTopTag_bin6
445 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin7
446 prop_binUL18_mu_SR_bin5_bin8
447 prop_binUL16postVFP_mu_CR2_bin8
448 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin5
449 prop_binUL18_el_SR_bin1_NoTopTag_bin5
450 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin2
×10
−2 −1 0 1 2
−0.5 0 0.5
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

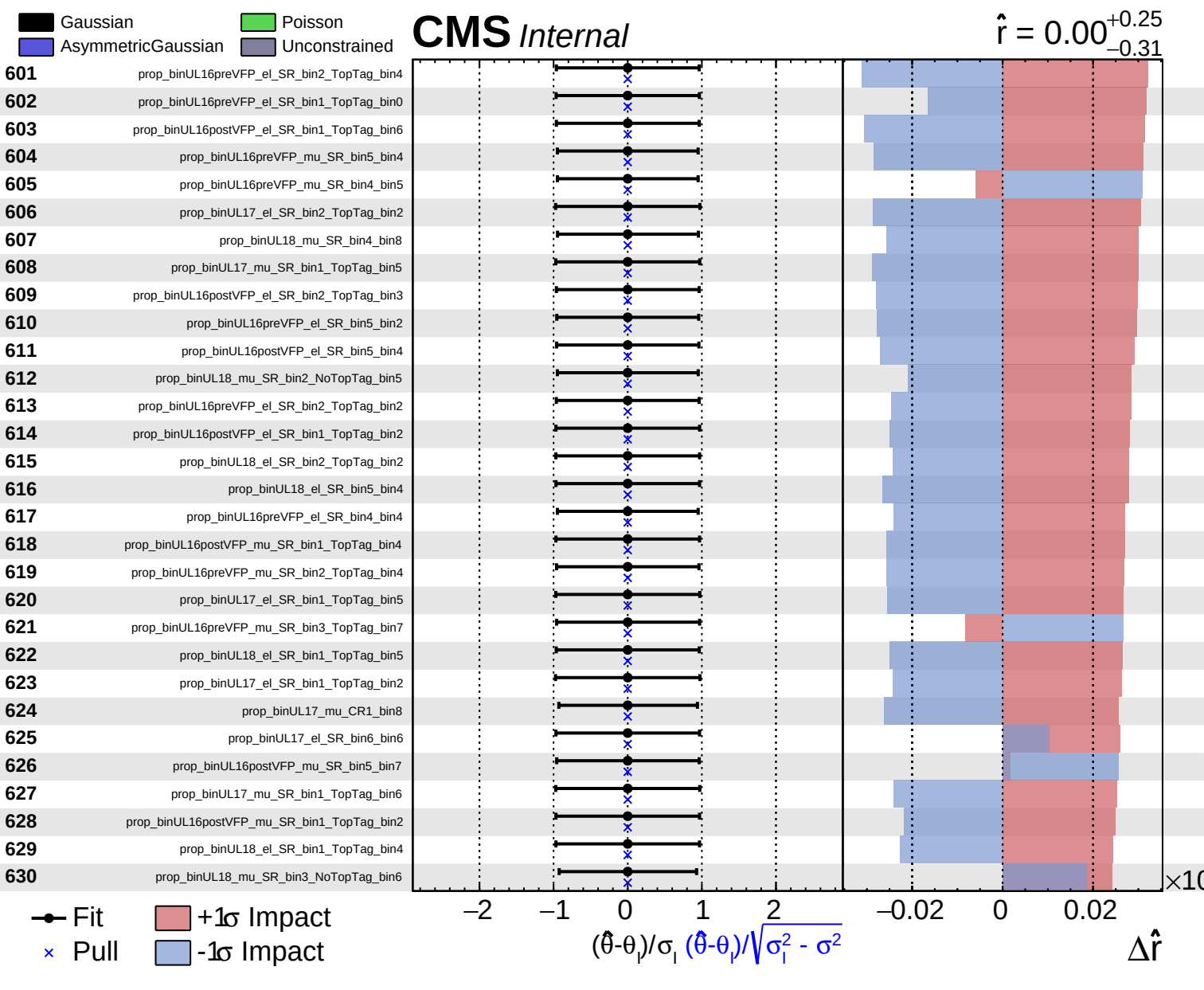

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
451 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin6
452 prop_binUL17_el_SR_bin3_NoTopTag_bin1
453 btag_lfstats1_UL16preVFP
454 prop_binUL16postVFP_el_SR_bin3_TopTag_bin2
455 prop_binUL17_mu_SR_bin4_bin5
456 prop_binUL17_mu_SR_bin2_TopTag_bin7
457 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin2
458 prop_binUL18_el_SR_bin1_NoTopTag_bin4
459 prop_binUL17_el_CR1_bin2
460 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin2
461 prop_binUL17_el_SR_bin2_NoTopTag_bin2
462 prop_binUL17_mu_SR_bin3_NoTopTag_bin5
463 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin6
464 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin4
465 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin2
466 prop_binUL16postVFP_el_CR2_bin5
467 prop_binUL18_el_SR_bin2_NoTopTag_bin3
468 prop_binUL16postVFP_mu_SR_bin4_bin3
469 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin3
470 prop_binUL18_el_SR_bin6_bin6
471 prop_binUL16postVFP_el_SR_bin5_bin3
472 prop_binUL16postVFP_mu_CR1_bin2
473 prop_binUL17_mu_SR_bin1_TopTag_bin0
474 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin4
475 prop_binUL18_mu_SR_bin4_bin5
476 prop_binUL17_el_SR_bin1_TopTag_bin0
477 prop_binUL18_el_CR2_bin3
478 prop_binUL16postVFP_el_SR_bin1_TopTag_bin8
479 prop_binUL17_el_SR_bin5_bin3
480 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin2
×10
−2
−1
0
1
2
−0.5
0
0.5
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

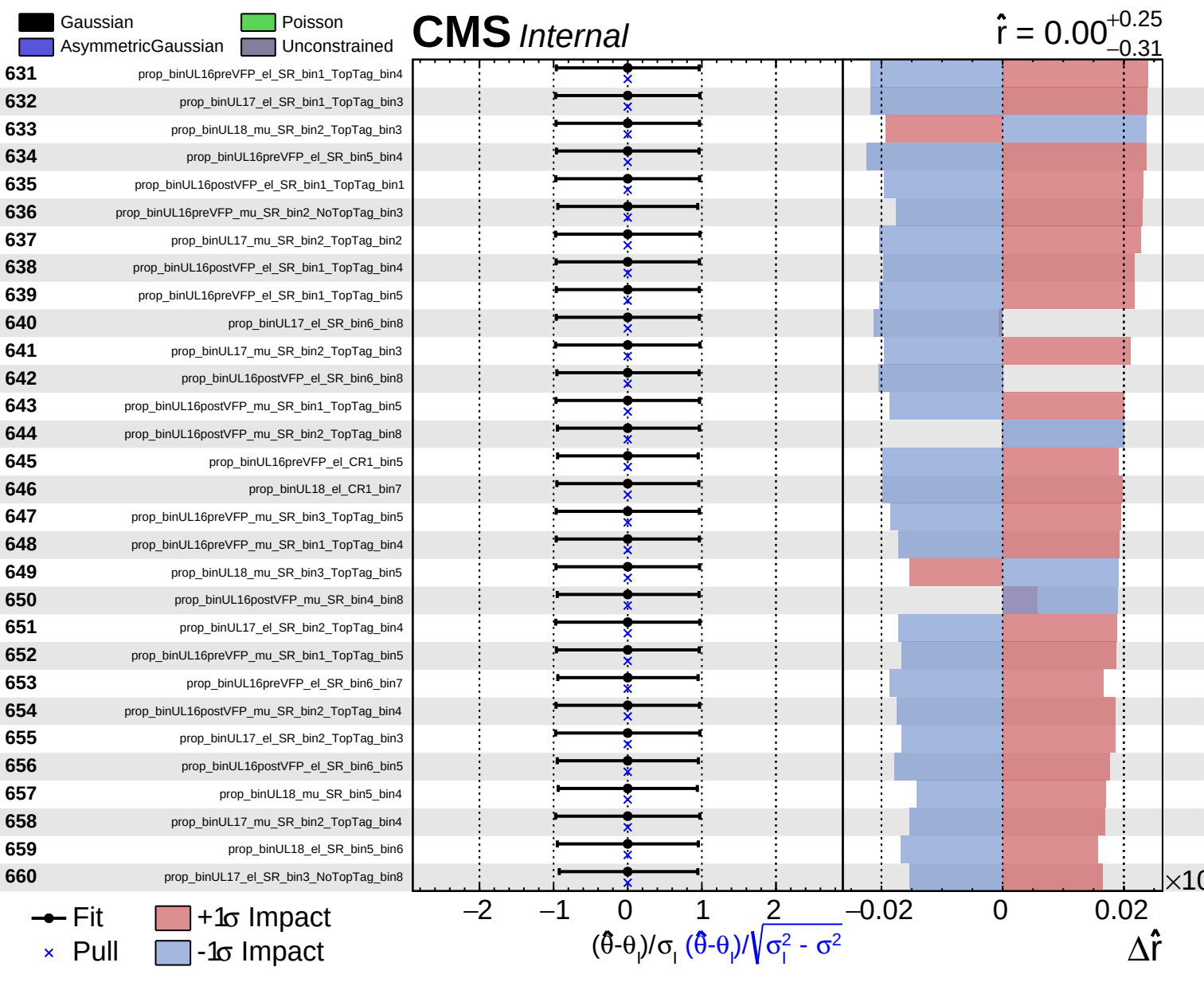

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
481 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin4
482 prop_binUL17_mu_SR_bin3_TopTag_bin3
483 prop_binUL16postVFP_mu_SR_bin5_bin5
484 prop_binUL18_mu_SR_bin2_TopTag_bin1
485 prop_binUL18_el_SR_bin4_bin7
486 prop_binUL16postVFP_el_SR_bin6_bin6
487 prop_binUL17_el_CR1_bin7
488 prop_binUL17_el_SR_bin6_bin5
489 prop_binUL17_el_SR_bin1_NoTopTag_bin3
490 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin5
491 prop_binUL18_mu_CR1_bin3
492 prop_binUL16preVFP_el_SR_bin3_TopTag_bin2
493 prop_binUL18_el_SR_bin2_TopTag_bin8
494 prop_binUL17_mu_SR_bin2_NoTopTag_bin8
495 prop_binUL16postVFP_el_SR_bin1_TopTag_bin0
496 prop_binUL16postVFP_mu_SR_bin5_bin4
497 prop_binUL16postVFP_el_CR1_bin1
498 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin5
499 prop_binUL17_mu_SR_bin1_NoTopTag_bin7
500 prop_binUL17_mu_SR_bin6_bin8
501 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin3
502 prop_binUL16preVFP_mu_SR_bin6_bin7
503 prop_binUL16preVFP_el_SR_bin3_TopTag_bin4
504 prop_binUL18_mu_SR_bin6_bin8
505 prop_binUL17_mu_SR_bin2_NoTopTag_bin2
506 prop_binUL18_el_SR_bin4_bin4
507 prop_binUL16preVFP_mu_SR_bin6_bin8
508 prop_binUL16preVFP_el_SR_bin2_TopTag_bin3
509 prop_binUL16preVFP_el_SR_bin3_TopTag_bin3
510 prop_binUL16postVFP_el_SR_bin3_TopTag_bin4
×10
−2
−1
0
1
2
−0.2
0
0.2
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

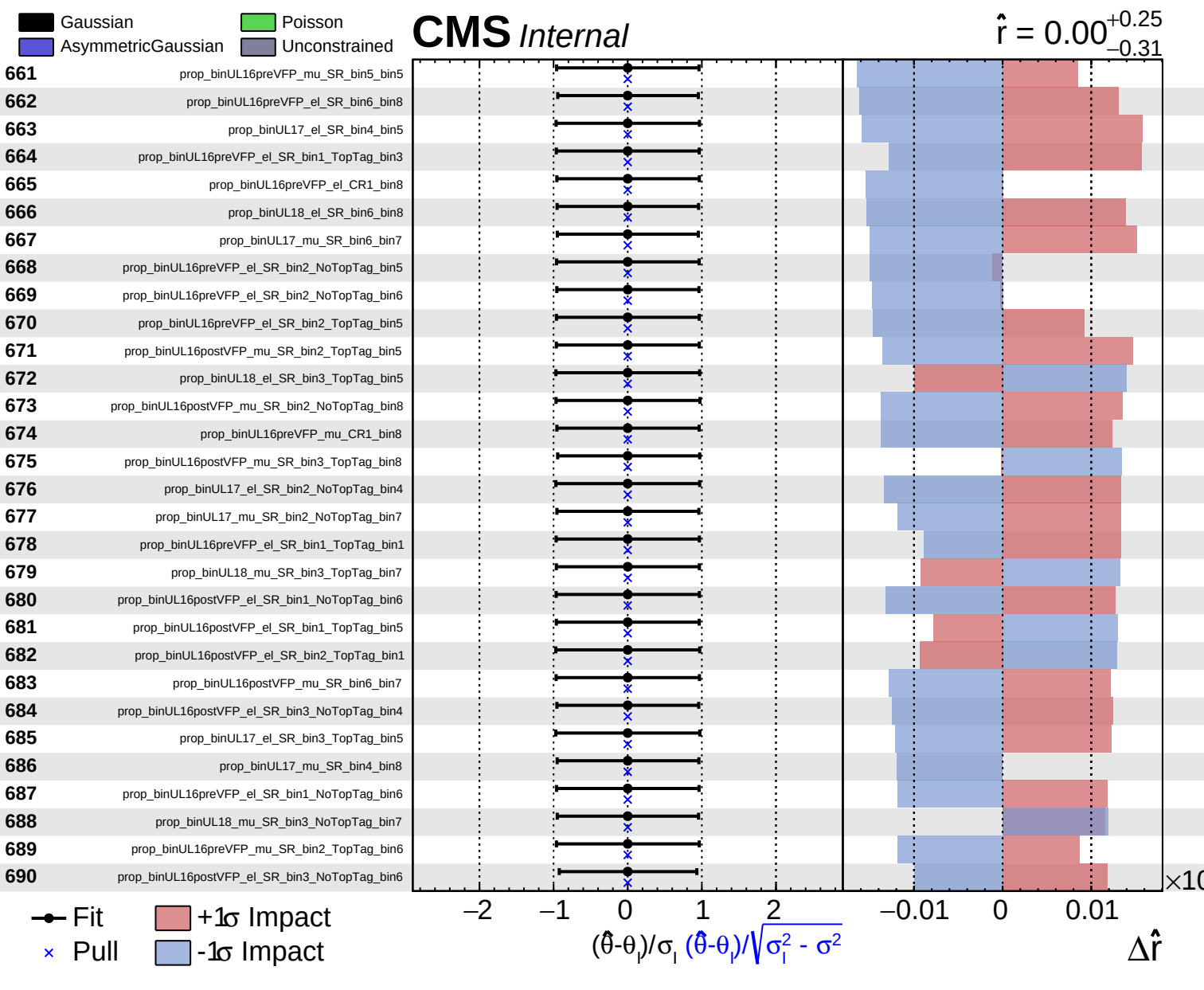

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
511 prop_binUL18_mu_SR_bin2_NoTopTag_bin7
512 prop_binUL18_el_SR_bin1_NoTopTag_bin3
513 prop_binUL16preVFP_mu_CR1_bin7
514 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin2
515 prop_binUL16preVFP_mu_SR_bin4_bin7
516 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin2
517 prop_binUL18_mu_SR_bin1_TopTag_bin8
518 prop_binUL18_el_SR_bin3_TopTag_bin3
519 prop_binUL18_el_CR1_bin3
520 prop_binUL17_el_SR_bin1_NoTopTag_bin4
521 prop_binUL16preVFP_el_CR1_bin1
522 prop_binUL17_mu_SR_bin1_NoTopTag_bin8
523 prop_binUL17_mu_SR_bin3_NoTopTag_bin6
524 prop_binUL18_mu_SR_bin2_TopTag_bin8
525 prop_binUL16preVFP_mu_CR1_bin5
526 prop_binUL17_mu_CR2_bin5
527 prop_binUL16preVFP_mu_SR_bin6_bin4
528 prop_binUL18_mu_CR1_bin6
529 prop_binUL16postVFP_el_CR1_bin2
530 prop_binUL16postVFP_mu_SR_bin6_bin4
531 prop_binUL16postVFP_el_SR_bin3_TopTag_bin3
532 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin7
533 prop_binUL17_el_SR_bin1_NoTopTag_bin5
534 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin3
535 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin4
536 prop_binUL16preVFP_el_SR_bin1_TopTag_bin8
537 prop_binUL18_mu_CR1_bin5
538 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin8
539 prop_binUL16preVFP_mu_CR1_bin6
540 prop_binUL18_el_SR_bin2_NoTopTag_bin4
−2
−1
0
1
2
−0.2
0
0.2
×10
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/σ0
(θ̂-θ0)/√σ0² - σ²
Δr̂

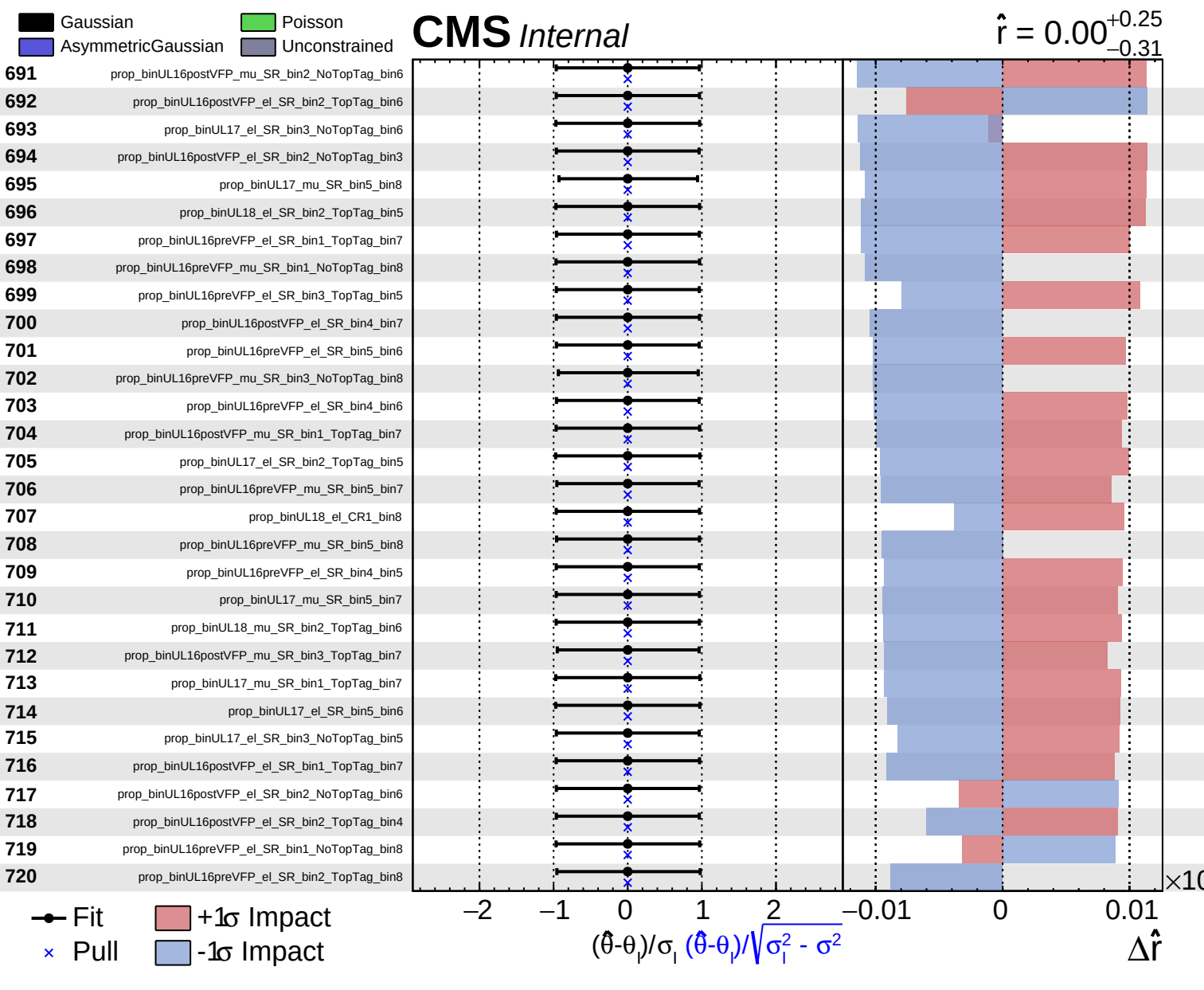

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
541 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin5
542 prop_binUL17_mu_SR_bin3_NoTopTag_bin7
543 prop_binUL16preVFP_el_CR1_bin3
544 prop_binUL17_el_CR1_bin4
545 prop_binUL18_mu_SR_bin2_NoTopTag_bin8
546 prop_binUL18_el_SR_bin3_TopTag_bin8
547 prop_binUL18_el_SR_bin1_NoTopTag_bin7
548 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin5
549 prop_binUL16postVFP_el_CR1_bin4
550 prop_binUL17_mu_SR_bin3_NoTopTag_bin4
551 prop_binUL17_mu_SR_bin5_bin4
552 prop_binUL17_el_CR1_bin6
553 prop_binUL18_el_SR_bin2_TopTag_bin3
554 prop_binUL18_el_SR_bin3_NoTopTag_bin4
555 prop_binUL16postVFP_el_CR1_bin3
556 prop_binUL16preVFP_mu_SR_bin6_bin6
557 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin6
558 prop_binUL18_el_SR_bin2_TopTag_bin1
559 prop_binUL16postVFP_el_CR1_bin6
560 prop_binUL18_mu_SR_bin1_TopTag_bin4
561 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin1
562 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin5
563 prop_binUL16preVFP_el_CR1_bin4
564 prop_binUL18_el_CR1_bin4
565 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin3
566 prop_binUL18_el_CR1_bin5
567 prop_binUL18_el_SR_bin6_bin7
568 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin4
569 prop_binUL18_el_CR1_bin6
570 prop_binUL18_mu_SR_bin3_NoTopTag_bin8
×10
−2 −1 0 1 2
−0.1 −0.05 0 0.05 0.1
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact

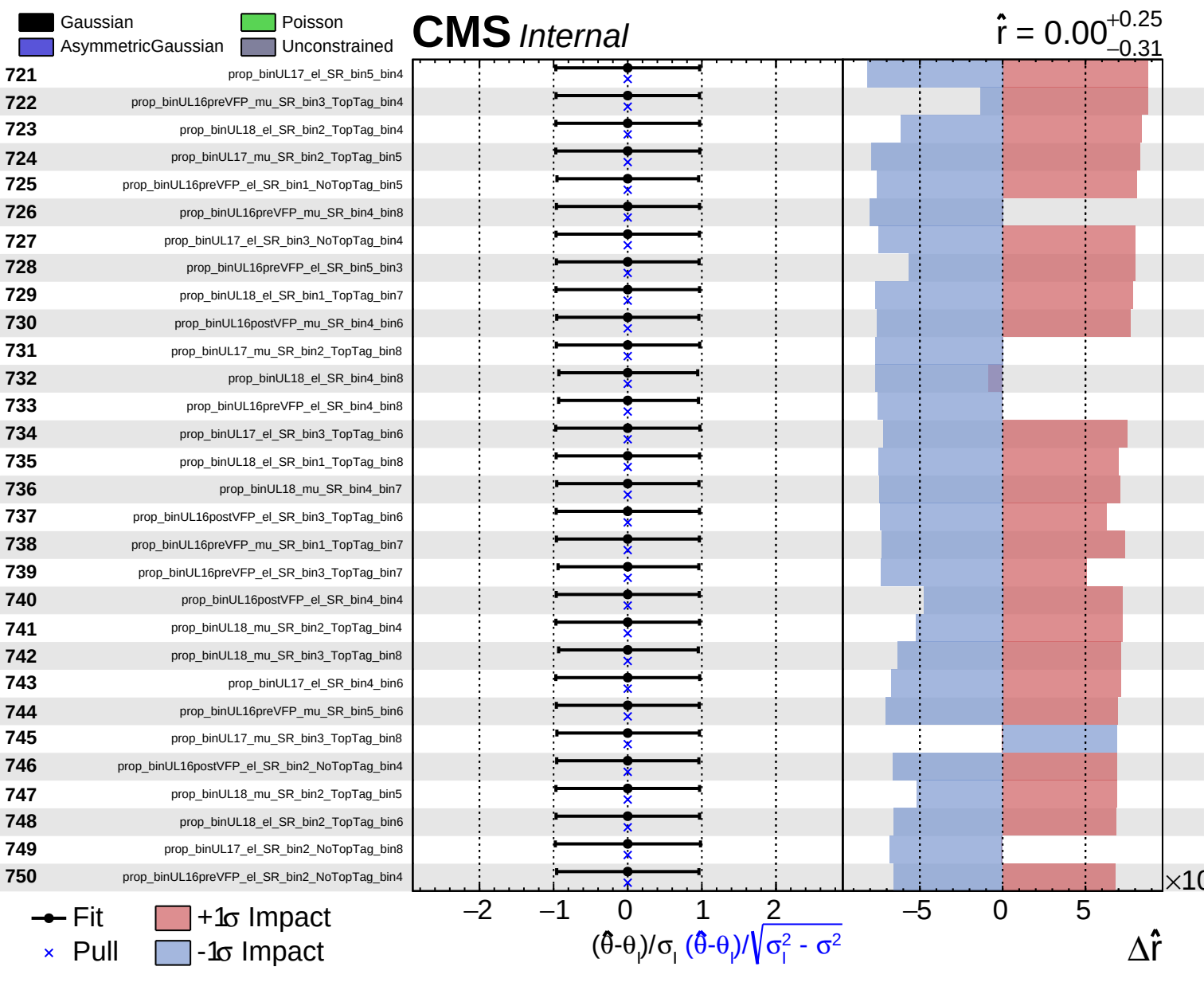

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
571 prop_binUL17_el_SR_bin1_NoTopTag_bin7
572 prop_binUL16preVFP_el_CR1_bin6
573 prop_binUL17_mu_SR_bin1_TopTag_bin1
574 prop_binUL16postVFP_mu_SR_bin6_bin5
575 prop_binUL18_mu_CR1_bin7
576 prop_binUL18_el_SR_bin1_NoTopTag_bin8
577 prop_binUL16postVFP_mu_CR1_bin6
578 prop_binUL17_el_CR1_bin5
579 prop_binUL16postVFP_mu_CR1_bin5
580 prop_binUL16postVFP_el_SR_bin1_TopTag_bin3
581 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin1
582 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin7
583 prop_binUL17_el_SR_bin2_TopTag_bin8
584 prop_binUL16postVFP_mu_CR1_bin4
585 prop_binUL18_mu_SR_bin5_bin6
586 prop_binUL16postVFP_el_SR_bin5_bin2
587 prop_binUL17_el_SR_bin3_TopTag_bin4
588 prop_binUL16preVFP_mu_SR_bin5_bin3
589 prop_binUL16postVFP_el_CR1_bin5
590 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin8
591 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin3
592 prop_binUL17_el_SR_bin1_TopTag_bin4
593 prop_binUL18_mu_SR_bin3_TopTag_bin6
594 prop_binUL16postVFP_el_SR_bin2_TopTag_bin0
595 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin6
596 prop_binUL16postVFP_mu_SR_bin1_NoTopTag_bin7
597 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin1
598 prop_binUL18_el_SR_bin2_NoTopTag_bin8
599 prop_binUL16postVFP_mu_SR_bin6_bin6
600 prop_binUL17_el_SR_bin1_NoTopTag_bin8
×10
Fit
Pull
+1σ Impact
-1σ Impact
−2
−1
0
1
2
(θ̂-θ_I)/σ_I
−0.05
0
0.05
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

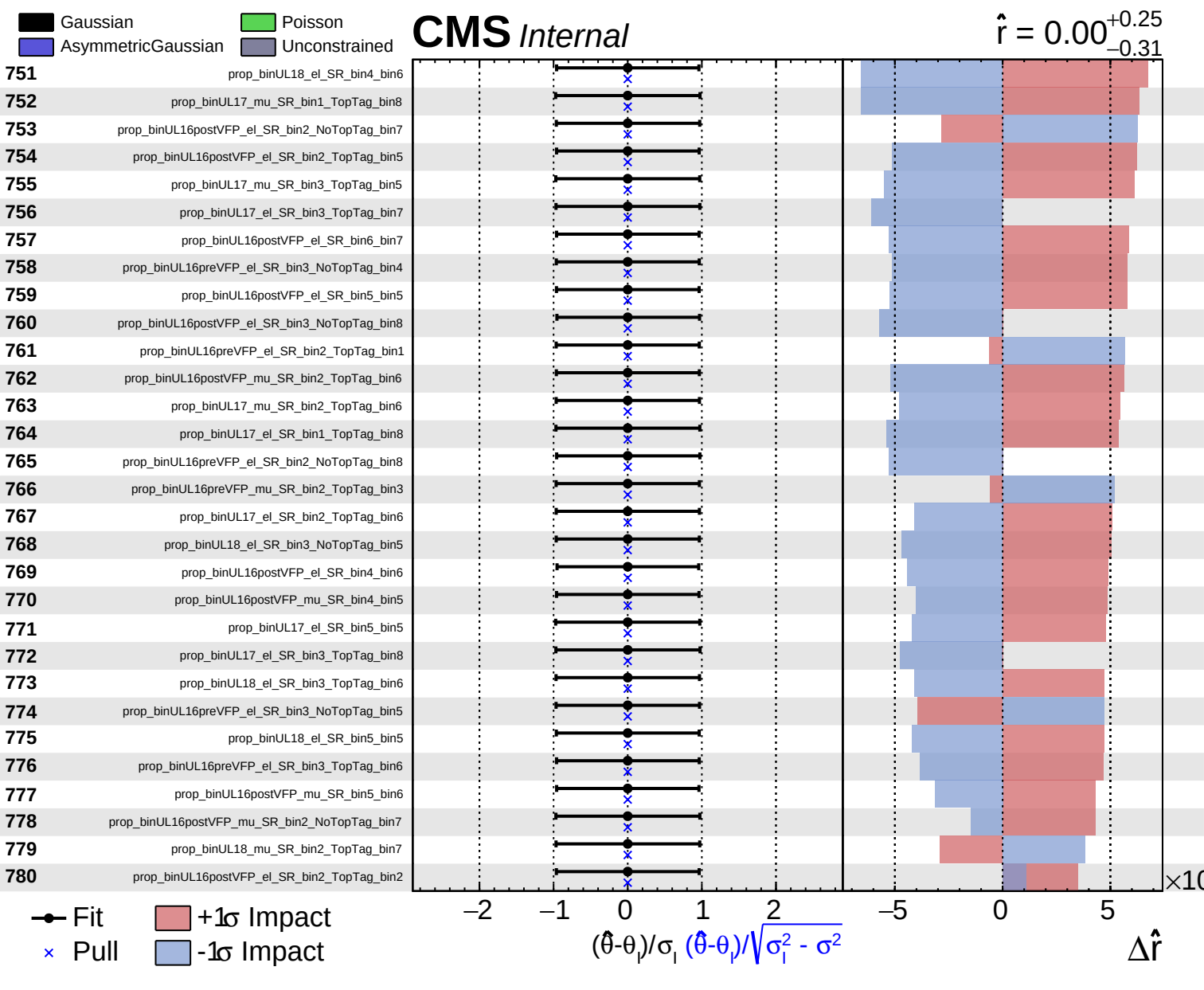

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
601 prop_binUL16preVFP_el_SR_bin2_TopTag_bin4
602 prop_binUL16preVFP_el_SR_bin1_TopTag_bin0
603 prop_binUL16postVFP_el_SR_bin1_TopTag_bin6
604 prop_binUL16preVFP_mu_SR_bin5_bin4
605 prop_binUL16preVFP_mu_SR_bin4_bin5
606 prop_binUL17_el_SR_bin2_TopTag_bin2
607 prop_binUL18_mu_SR_bin4_bin8
608 prop_binUL17_mu_SR_bin1_TopTag_bin5
609 prop_binUL16postVFP_el_SR_bin2_TopTag_bin3
610 prop_binUL16preVFP_el_SR_bin5_bin2
611 prop_binUL16postVFP_el_SR_bin5_bin4
612 prop_binUL18_mu_SR_bin2_NoTopTag_bin5
613 prop_binUL16preVFP_el_SR_bin2_TopTag_bin2
614 prop_binUL16postVFP_el_SR_bin1_TopTag_bin2
615 prop_binUL18_el_SR_bin2_TopTag_bin2
616 prop_binUL18_el_SR_bin5_bin4
617 prop_binUL16preVFP_el_SR_bin4_bin4
618 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin4
619 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin4
620 prop_binUL17_el_SR_bin1_TopTag_bin5
621 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin7
622 prop_binUL18_el_SR_bin1_TopTag_bin5
623 prop_binUL17_el_SR_bin1_TopTag_bin2
624 prop_binUL17_mu_CR1_bin8
625 prop_binUL17_el_SR_bin6_bin6
626 prop_binUL16postVFP_mu_SR_bin5_bin7
627 prop_binUL17_mu_SR_bin1_TopTag_bin6
628 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin2
629 prop_binUL18_el_SR_bin1_TopTag_bin4
630 prop_binUL18_mu_SR_bin3_NoTopTag_bin6
×10
−2
−1
0
1
2
−0.02
0
0.02
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact

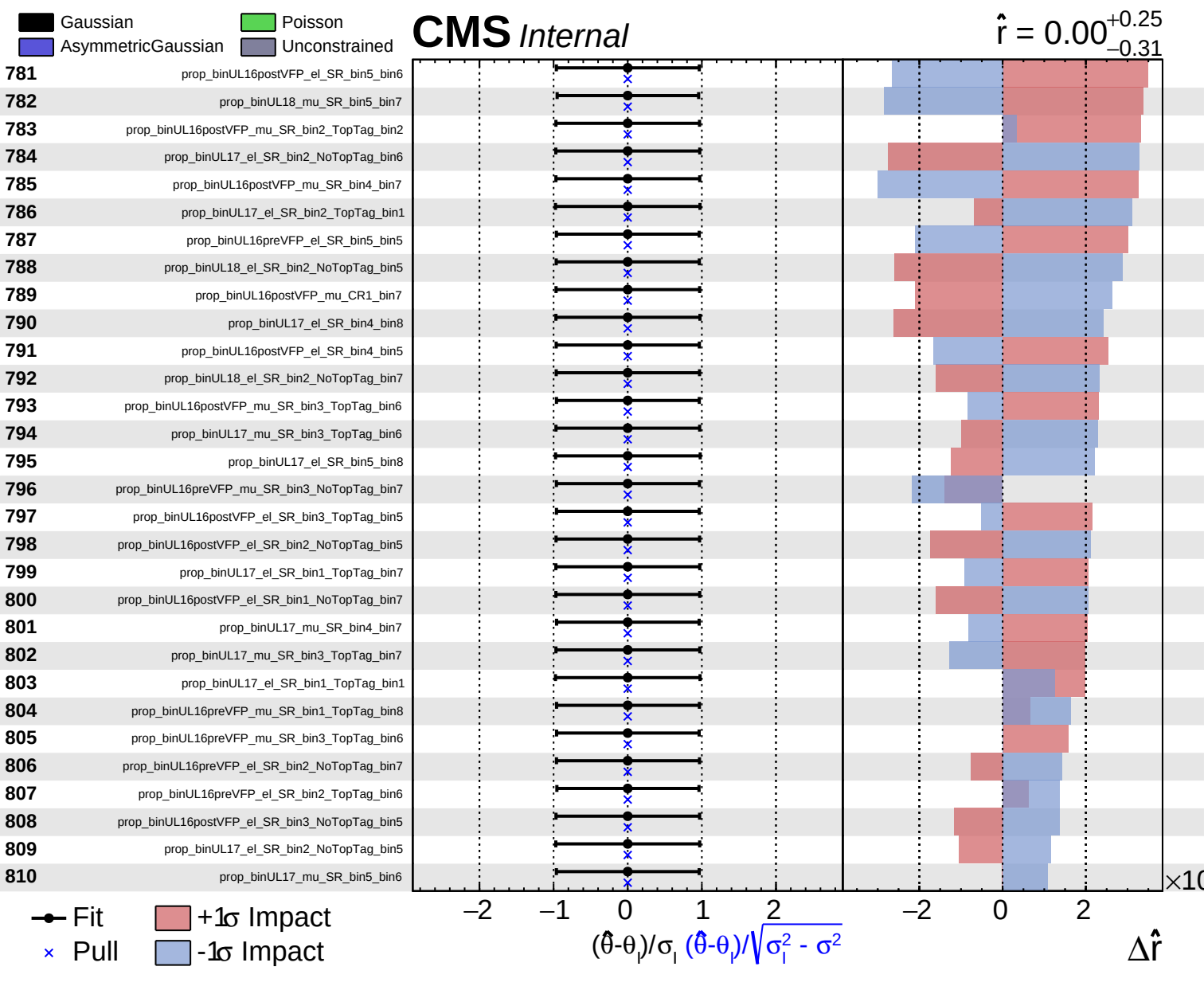

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
631 prop_binUL16preVFP_el_SR_bin1_TopTag_bin4
632 prop_binUL17_el_SR_bin1_TopTag_bin3
633 prop_binUL18_mu_SR_bin2_TopTag_bin3
634 prop_binUL16preVFP_el_SR_bin5_bin4
635 prop_binUL16postVFP_el_SR_bin1_TopTag_bin1
636 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin3
637 prop_binUL17_mu_SR_bin2_TopTag_bin2
638 prop_binUL16postVFP_el_SR_bin1_TopTag_bin4
639 prop_binUL16preVFP_el_SR_bin1_TopTag_bin5
640 prop_binUL17_el_SR_bin6_bin8
641 prop_binUL17_mu_SR_bin2_TopTag_bin3
642 prop_binUL16postVFP_el_SR_bin6_bin8
643 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin5
644 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin8
645 prop_binUL16preVFP_el_CR1_bin5
646 prop_binUL18_el_CR1_bin7
647 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin5
648 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin4
649 prop_binUL18_mu_SR_bin3_TopTag_bin5
650 prop_binUL16postVFP_mu_SR_bin4_bin8
651 prop_binUL17_el_SR_bin2_TopTag_bin4
652 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin5
653 prop_binUL16preVFP_el_SR_bin6_bin7
654 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin4
655 prop_binUL17_el_SR_bin2_TopTag_bin3
656 prop_binUL16postVFP_el_SR_bin6_bin5
657 prop_binUL18_mu_SR_bin5_bin4
658 prop_binUL17_mu_SR_bin2_TopTag_bin4
659 prop_binUL18_el_SR_bin5_bin6
660 prop_binUL17_el_SR_bin3_NoTopTag_bin8
×10
Fit
Pull
+1σ Impact
-1σ Impact
−2
−1
0
1
2
(θ̂-θ_I)/σ_I
−0.02
0
0.02
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

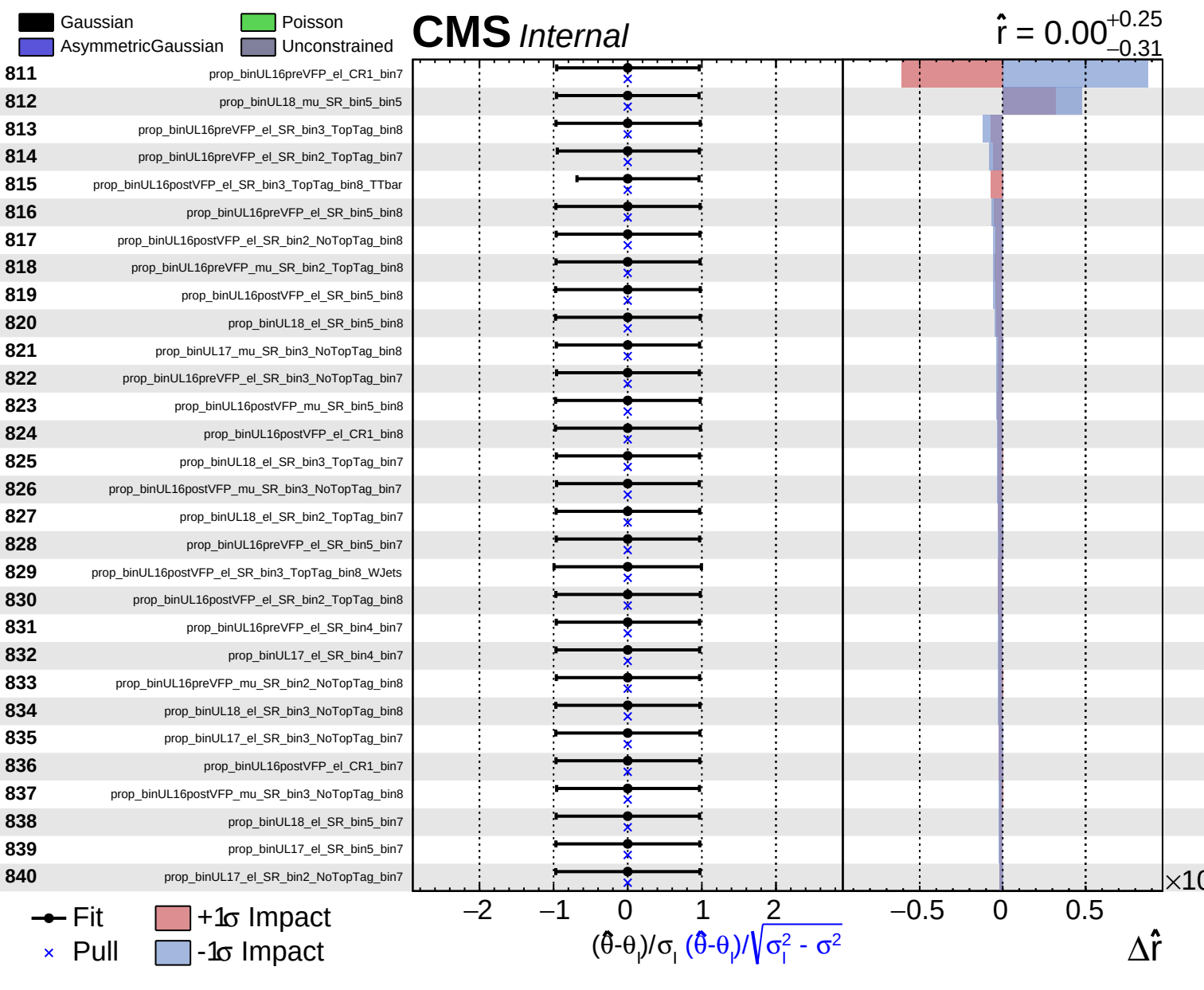

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
661 prop_binUL16preVFP_mu_SR_bin5_bin5
662 prop_binUL16preVFP_el_SR_bin6_bin8
663 prop_binUL17_el_SR_bin4_bin5
664 prop_binUL16preVFP_el_SR_bin1_TopTag_bin3
665 prop_binUL16preVFP_el_CR1_bin8
666 prop_binUL18_el_SR_bin6_bin8
667 prop_binUL17_mu_SR_bin6_bin7
668 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin5
669 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin6
670 prop_binUL16preVFP_el_SR_bin2_TopTag_bin5
671 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin5
672 prop_binUL18_el_SR_bin3_TopTag_bin5
673 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin8
674 prop_binUL16preVFP_mu_CR1_bin8
675 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin8
676 prop_binUL17_el_SR_bin2_NoTopTag_bin4
677 prop_binUL17_mu_SR_bin2_NoTopTag_bin7
678 prop_binUL16preVFP_el_SR_bin1_TopTag_bin1
679 prop_binUL18_mu_SR_bin3_TopTag_bin7
680 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin6
681 prop_binUL16postVFP_el_SR_bin1_TopTag_bin5
682 prop_binUL16postVFP_el_SR_bin2_TopTag_bin1
683 prop_binUL16postVFP_mu_SR_bin6_bin7
684 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin4
685 prop_binUL17_el_SR_bin3_TopTag_bin5
686 prop_binUL17_mu_SR_bin4_bin8
687 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin6
688 prop_binUL18_mu_SR_bin3_NoTopTag_bin7
689 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin6
690 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin6
−2
−1
0
1
2
−0.01
0
0.01
×10
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂

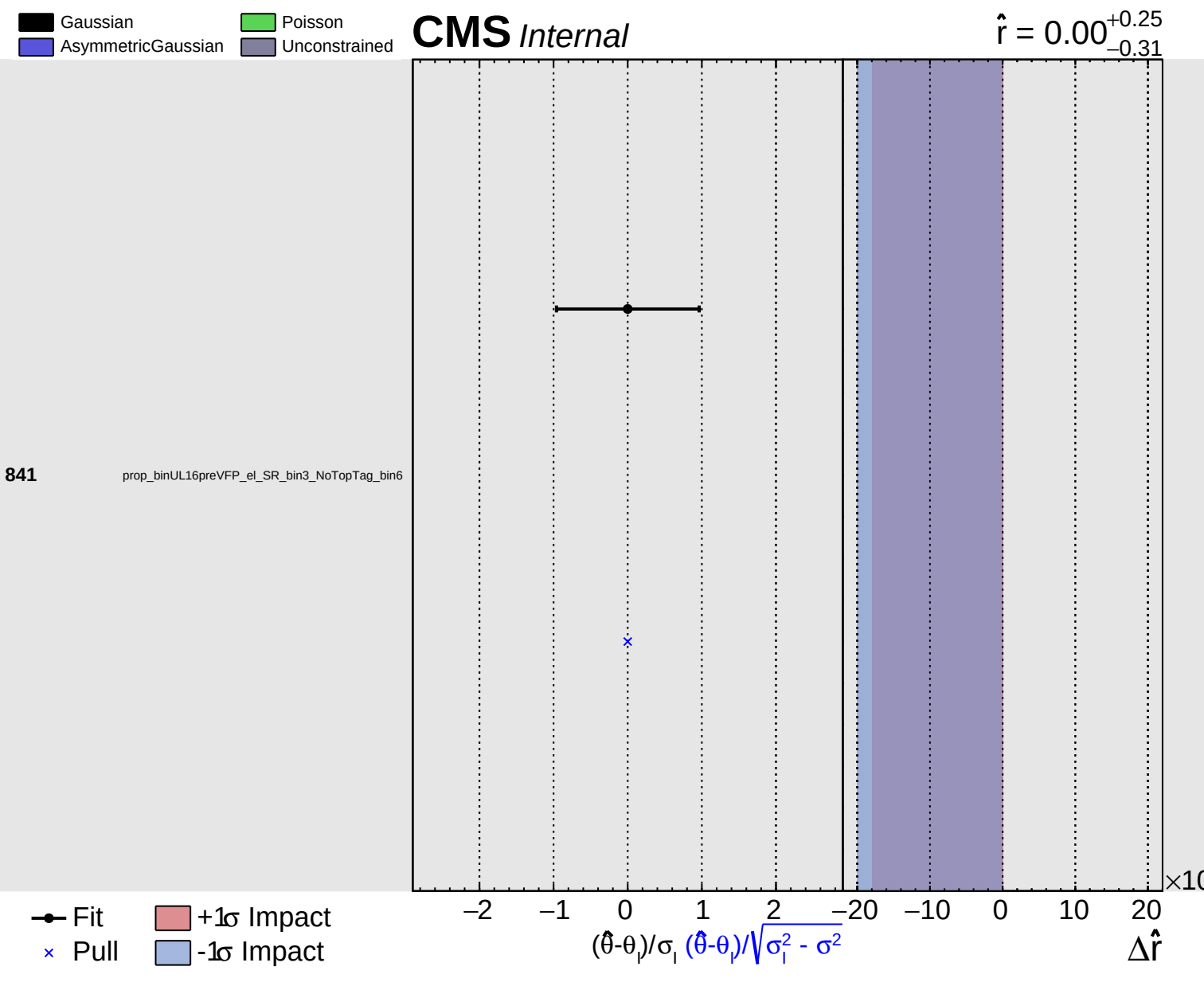

Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
691 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin6
692 prop_binUL16postVFP_el_SR_bin2_TopTag_bin6
693 prop_binUL17_el_SR_bin3_NoTopTag_bin6
694 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin3
695 prop_binUL17_mu_SR_bin5_bin8
696 prop_binUL18_el_SR_bin2_TopTag_bin5
697 prop_binUL16preVFP_el_SR_bin1_TopTag_bin7
698 prop_binUL16preVFP_mu_SR_bin1_NoTopTag_bin8
699 prop_binUL16preVFP_el_SR_bin3_TopTag_bin5
700 prop_binUL16postVFP_el_SR_bin4_bin7
701 prop_binUL16preVFP_el_SR_bin5_bin6
702 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin8
703 prop_binUL16preVFP_el_SR_bin4_bin6
704 prop_binUL16postVFP_mu_SR_bin1_TopTag_bin7
705 prop_binUL17_el_SR_bin2_TopTag_bin5
706 prop_binUL16preVFP_mu_SR_bin5_bin7
707 prop_binUL18_el_CR1_bin8
708 prop_binUL16preVFP_mu_SR_bin5_bin8
709 prop_binUL16preVFP_el_SR_bin4_bin5
710 prop_binUL17_mu_SR_bin5_bin7
711 prop_binUL18_mu_SR_bin2_TopTag_bin6
712 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin7
713 prop_binUL17_mu_SR_bin1_TopTag_bin7
714 prop_binUL17_el_SR_bin5_bin6
715 prop_binUL17_el_SR_bin3_NoTopTag_bin5
716 prop_binUL16postVFP_el_SR_bin1_TopTag_bin7
717 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin6
718 prop_binUL16postVFP_el_SR_bin2_TopTag_bin4
719 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin8
720 prop_binUL16preVFP_el_SR_bin2_TopTag_bin8
×10
−2 −1 0 1 2
−0.01 0 0.01
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂


Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
721 prop_binUL17_el_SR_bin5_bin4
722 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin4
723 prop_binUL18_el_SR_bin2_TopTag_bin4
724 prop_binUL17_mu_SR_bin2_TopTag_bin5
725 prop_binUL16preVFP_el_SR_bin1_NoTopTag_bin5
726 prop_binUL16preVFP_mu_SR_bin4_bin8
727 prop_binUL17_el_SR_bin3_NoTopTag_bin4
728 prop_binUL16preVFP_el_SR_bin5_bin3
729 prop_binUL18_el_SR_bin1_TopTag_bin7
730 prop_binUL16postVFP_mu_SR_bin4_bin6
731 prop_binUL17_mu_SR_bin2_TopTag_bin8
732 prop_binUL18_el_SR_bin4_bin8
733 prop_binUL16preVFP_el_SR_bin4_bin8
734 prop_binUL17_el_SR_bin3_TopTag_bin6
735 prop_binUL18_el_SR_bin1_TopTag_bin8
736 prop_binUL18_mu_SR_bin4_bin7
737 prop_binUL16postVFP_el_SR_bin3_TopTag_bin6
738 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin7
739 prop_binUL16preVFP_el_SR_bin3_TopTag_bin7
740 prop_binUL16postVFP_el_SR_bin4_bin4
741 prop_binUL18_mu_SR_bin2_TopTag_bin4
742 prop_binUL18_mu_SR_bin3_TopTag_bin8
743 prop_binUL17_el_SR_bin4_bin6
744 prop_binUL16preVFP_mu_SR_bin5_bin6
745 prop_binUL17_mu_SR_bin3_TopTag_bin8
746 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin4
747 prop_binUL18_mu_SR_bin2_TopTag_bin5
748 prop_binUL18_el_SR_bin2_TopTag_bin6
749 prop_binUL17_el_SR_bin2_NoTopTag_bin8
750 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin4
×10
−2 −1 0 1 2
−5 0 5
(θ̂-θ_I)/σ_I (θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact


Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
751 prop_binUL18_el_SR_bin4_bin6
752 prop_binUL17_mu_SR_bin1_TopTag_bin8
753 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin7
754 prop_binUL16postVFP_el_SR_bin2_TopTag_bin5
755 prop_binUL17_mu_SR_bin3_TopTag_bin5
756 prop_binUL17_el_SR_bin3_TopTag_bin7
757 prop_binUL16postVFP_el_SR_bin6_bin7
758 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin4
759 prop_binUL16postVFP_el_SR_bin5_bin5
760 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin8
761 prop_binUL16preVFP_el_SR_bin2_TopTag_bin1
762 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin6
763 prop_binUL17_mu_SR_bin2_TopTag_bin6
764 prop_binUL17_el_SR_bin1_TopTag_bin8
765 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin8
766 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin3
767 prop_binUL17_el_SR_bin2_TopTag_bin6
768 prop_binUL18_el_SR_bin3_NoTopTag_bin5
769 prop_binUL16postVFP_el_SR_bin4_bin6
770 prop_binUL16postVFP_mu_SR_bin4_bin5
771 prop_binUL17_el_SR_bin5_bin5
772 prop_binUL17_el_SR_bin3_TopTag_bin8
773 prop_binUL18_el_SR_bin3_TopTag_bin6
774 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin5
775 prop_binUL18_el_SR_bin5_bin5
776 prop_binUL16preVFP_el_SR_bin3_TopTag_bin6
777 prop_binUL16postVFP_mu_SR_bin5_bin6
778 prop_binUL16postVFP_mu_SR_bin2_NoTopTag_bin7
779 prop_binUL18_mu_SR_bin2_TopTag_bin7
780 prop_binUL16postVFP_el_SR_bin2_TopTag_bin2
−2 −1 0 1 2
−5 0 5
×10
Fit
Pull
+1σ Impact
-1σ Impact
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂


Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00+0.25−0.31
781 prop_binUL16postVFP_el_SR_bin5_bin6
782 prop_binUL18_mu_SR_bin5_bin7
783 prop_binUL16postVFP_mu_SR_bin2_TopTag_bin2
784 prop_binUL17_el_SR_bin2_NoTopTag_bin6
785 prop_binUL16postVFP_mu_SR_bin4_bin7
786 prop_binUL17_el_SR_bin2_TopTag_bin1
787 prop_binUL16preVFP_el_SR_bin5_bin5
788 prop_binUL18_el_SR_bin2_NoTopTag_bin5
789 prop_binUL16postVFP_mu_CR1_bin7
790 prop_binUL17_el_SR_bin4_bin8
791 prop_binUL16postVFP_el_SR_bin4_bin5
792 prop_binUL18_el_SR_bin2_NoTopTag_bin7
793 prop_binUL16postVFP_mu_SR_bin3_TopTag_bin6
794 prop_binUL17_mu_SR_bin3_TopTag_bin6
795 prop_binUL17_el_SR_bin5_bin8
796 prop_binUL16preVFP_mu_SR_bin3_NoTopTag_bin7
797 prop_binUL16postVFP_el_SR_bin3_TopTag_bin5
798 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin5
799 prop_binUL17_el_SR_bin1_TopTag_bin7
800 prop_binUL16postVFP_el_SR_bin1_NoTopTag_bin7
801 prop_binUL17_mu_SR_bin4_bin7
802 prop_binUL17_mu_SR_bin3_TopTag_bin7
803 prop_binUL17_el_SR_bin1_TopTag_bin1
804 prop_binUL16preVFP_mu_SR_bin1_TopTag_bin8
805 prop_binUL16preVFP_mu_SR_bin3_TopTag_bin6
806 prop_binUL16preVFP_el_SR_bin2_NoTopTag_bin7
807 prop_binUL16preVFP_el_SR_bin2_TopTag_bin6
808 prop_binUL16postVFP_el_SR_bin3_NoTopTag_bin5
809 prop_binUL17_el_SR_bin2_NoTopTag_bin5
810 prop_binUL17_mu_SR_bin5_bin6
×10
−2
−1
0
1
2
−2
0
2
(θ̂-θ_I)/σ_I
(θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact


Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
811 prop_binUL16preVFP_el_CR1_bin7
812 prop_binUL18_mu_SR_bin5_bin5
813 prop_binUL16preVFP_el_SR_bin3_TopTag_bin8
814 prop_binUL16preVFP_el_SR_bin2_TopTag_bin7
815 prop_binUL16postVFP_el_SR_bin3_TopTag_bin8_TTbar
816 prop_binUL16preVFP_el_SR_bin5_bin8
817 prop_binUL16postVFP_el_SR_bin2_NoTopTag_bin8
818 prop_binUL16preVFP_mu_SR_bin2_TopTag_bin8
819 prop_binUL16postVFP_el_SR_bin5_bin8
820 prop_binUL18_el_SR_bin5_bin8
821 prop_binUL17_mu_SR_bin3_NoTopTag_bin8
822 prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin7
823 prop_binUL16postVFP_mu_SR_bin5_bin8
824 prop_binUL16postVFP_el_CR1_bin8
825 prop_binUL18_el_SR_bin3_TopTag_bin7
826 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin7
827 prop_binUL18_el_SR_bin2_TopTag_bin7
828 prop_binUL16preVFP_el_SR_bin5_bin7
829 prop_binUL16postVFP_el_SR_bin3_TopTag_bin8_WJets
830 prop_binUL16postVFP_el_SR_bin2_TopTag_bin8
831 prop_binUL16preVFP_el_SR_bin4_bin7
832 prop_binUL17_el_SR_bin4_bin7
833 prop_binUL16preVFP_mu_SR_bin2_NoTopTag_bin8
834 prop_binUL18_el_SR_bin3_NoTopTag_bin8
835 prop_binUL17_el_SR_bin3_NoTopTag_bin7
836 prop_binUL16postVFP_el_CR1_bin7
837 prop_binUL16postVFP_mu_SR_bin3_NoTopTag_bin8
838 prop_binUL18_el_SR_bin5_bin7
839 prop_binUL17_el_SR_bin5_bin7
840 prop_binUL17_el_SR_bin2_NoTopTag_bin7
×10
−2 −1 0 1 2
−0.5 0 0.5
(θ̂-θ_I)/σ_I (θ̂-θ_I)/√(σ_I² - σ²)
Δr̂
Fit
Pull
+1σ Impact
-1σ Impact


Gaussian
AsymmetricGaussian
Poisson
Unconstrained
CMS Internal
r̂ = 0.00 +0.25 −0.31
841
prop_binUL16preVFP_el_SR_bin3_NoTopTag_bin6
×10
Fit
Pull
+1σ Impact
-1σ Impact
−2
−1
0
1
2
−20
−10
0
10
20
(θ̂-θ)/σ
(θ̂-θ)/√(σ² - σ²)
Δr̂