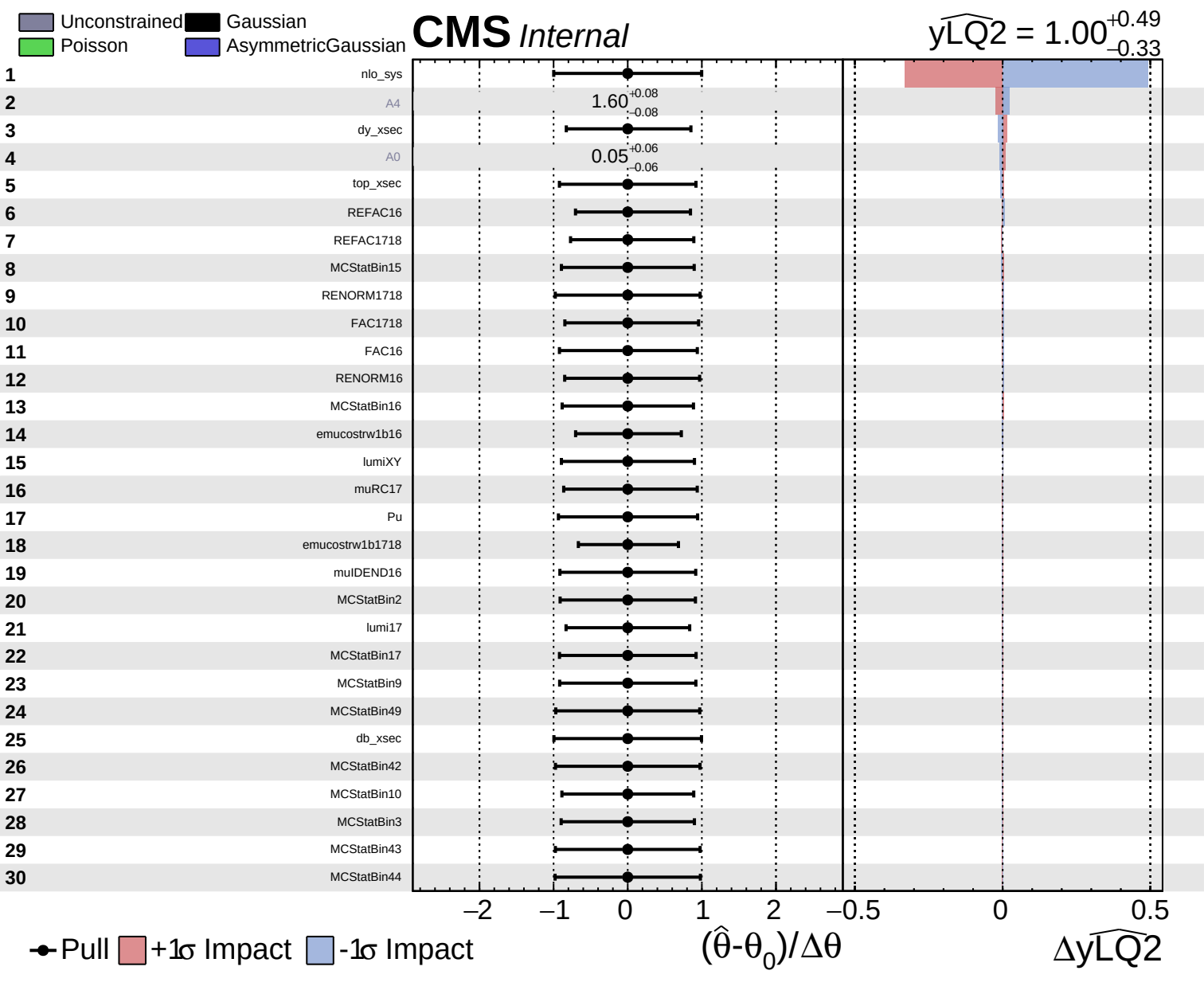
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2 A4
3 dy_xsec
4 A0
5 top_xsec
6 REFAC16
7 REFAC1718
8 MCStatBin15
9 RENORM1718
10 FAC1718
11 FAC16
12 RENORM16
13 MCStatBin16
14 emucostrw1b16
15 lumiXY
16 muRC17
17 Pu
18 emucostrw1b1718
19 muIDEND16
20 MCStatBin2
21 lumi17
22 MCStatBin17
23 MCStatBin9
24 MCStatBin49
25 db_xsec
26 MCStatBin42
27 MCStatBin10
28 MCStatBin3
29 MCStatBin43
30 MCStatBin44
1.60 +0.08 −0.08
0.05 +0.06 −0.06
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−0.5 0 0.5
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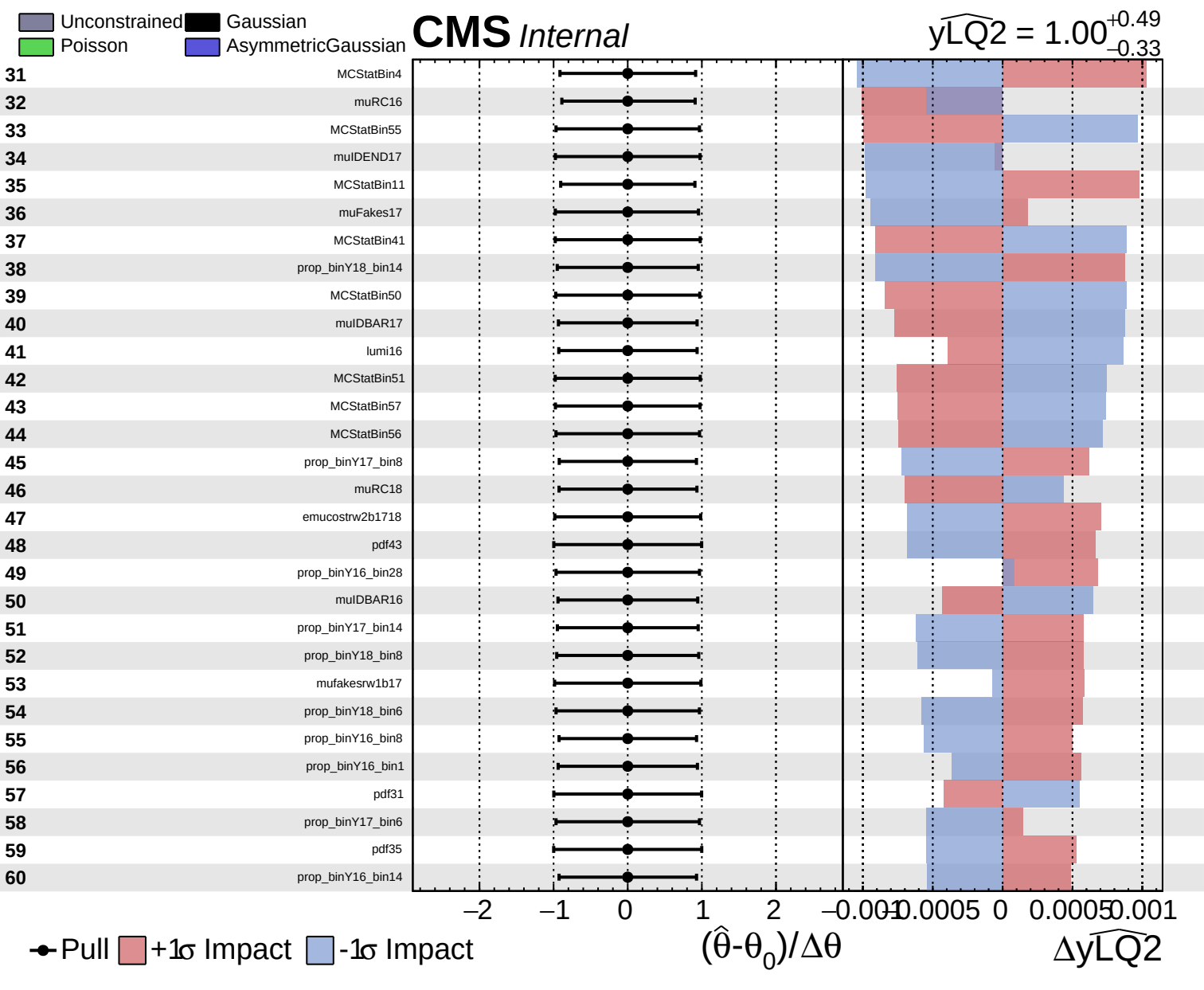
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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33 MCStatBin55
34 muIDEND17
35 MCStatBin11
36 muFakes17
37 MCStatBin41
38 prop_binY18_bin14
39 MCStatBin50
40 muIDBAR17
41 lumi16
42 MCStatBin51
43 MCStatBin57
44 MCStatBin56
45 prop_binY17_bin8
46 muRC18
47 emucostrw2b1718
48 pdf43
49 prop_binY16_bin28
50 muIDBAR16
51 prop_binY17_bin14
52 prop_binY18_bin8
53 mufakesrw1b17
54 prop_binY18_bin6
55 prop_binY16_bin8
56 prop_binY16_bin1
57 pdf31
58 prop_binY17_bin6
59 pdf35
60 prop_binY16_bin14
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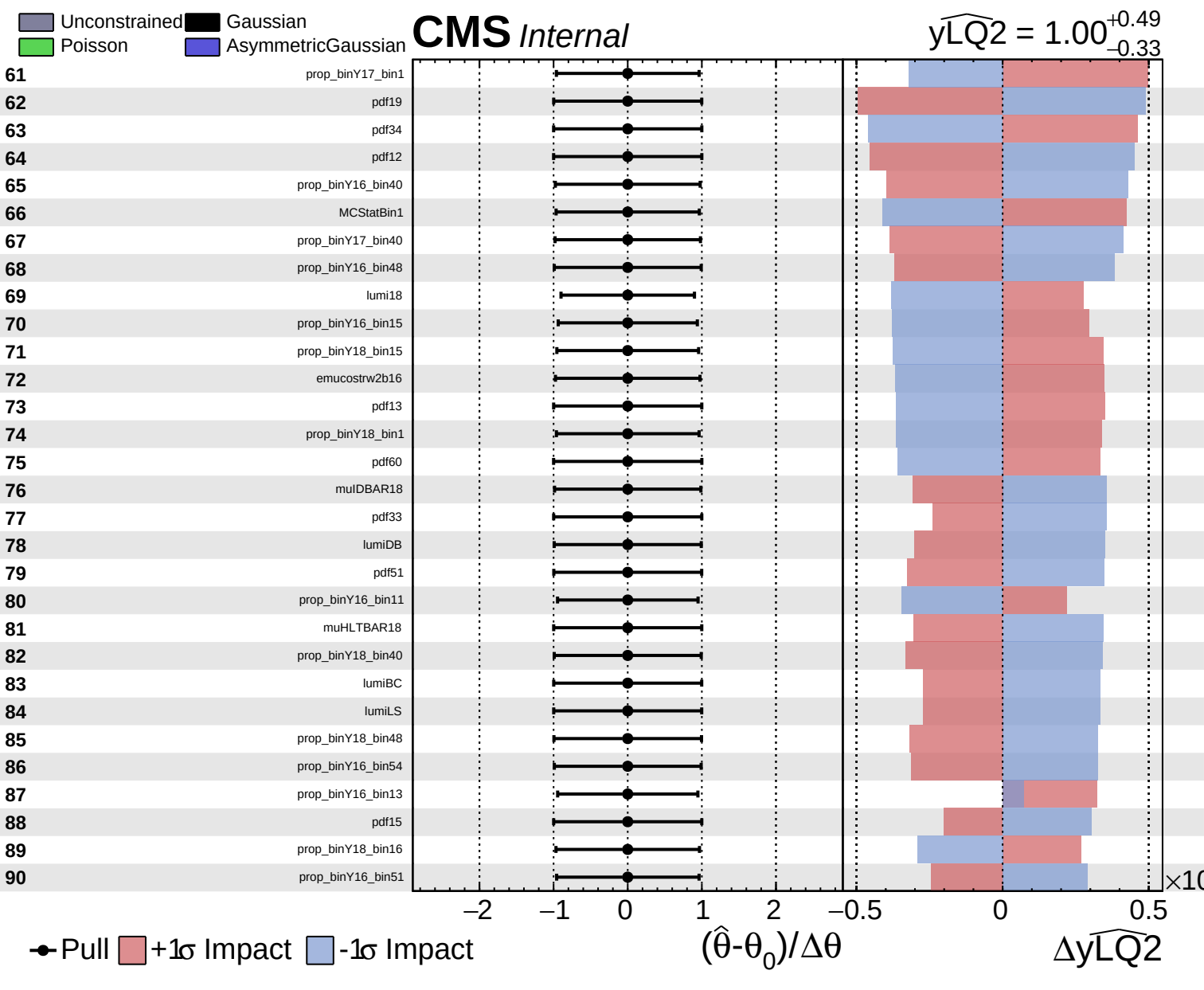
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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62 pdf19
63 pdf34
64 pdf12
65 prop_binY16_bin40
66 MCStatBin1
67 prop_binY17_bin40
68 prop_binY16_bin48
69 lumi18
70 prop_binY16_bin15
71 prop_binY18_bin15
72 emucostrw2b16
73 pdf13
74 prop_binY18_bin1
75 pdf60
76 muIDBAR18
77 pdf33
78 lumiDB
79 pdf51
80 prop_binY16_bin11
81 muHLTBAR18
82 prop_binY18_bin40
83 lumiBC
84 lumiLS
85 prop_binY18_bin48
86 prop_binY16_bin54
87 prop_binY16_bin13
88 pdf15
89 prop_binY18_bin16
90 prop_binY16_bin51
×10
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−0.5 0 0.5
Pull
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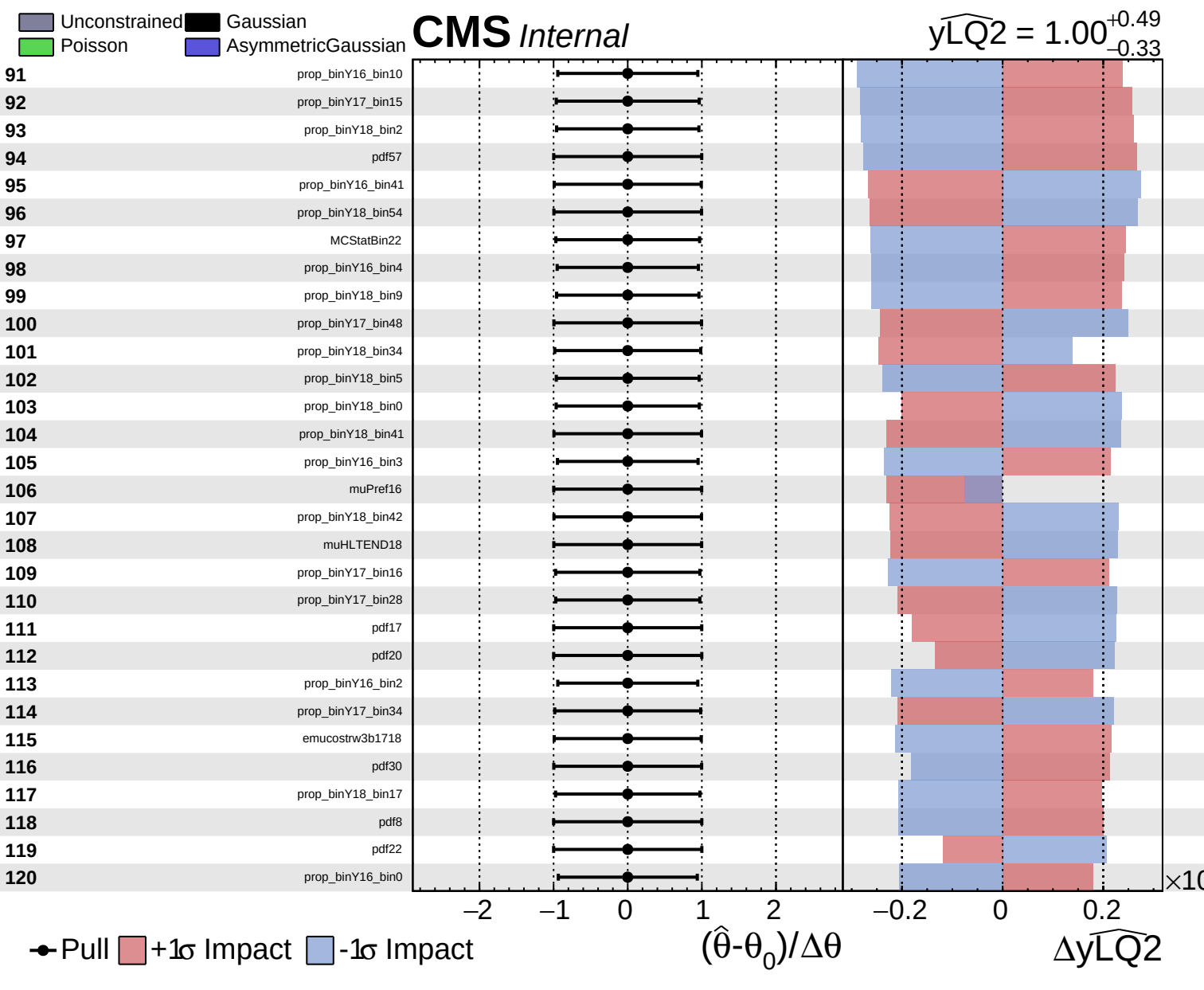
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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92 prop_binY17_bin15
93 prop_binY18_bin2
94 pdf57
95 prop_binY16_bin41
96 prop_binY18_bin54
97 MCStatBin22
98 prop_binY16_bin4
99 prop_binY18_bin9
100 prop_binY17_bin48
101 prop_binY18_bin34
102 prop_binY18_bin5
103 prop_binY18_bin0
104 prop_binY18_bin41
105 prop_binY16_bin3
106 muPref16
107 prop_binY18_bin42
108 muHLTEND18
109 prop_binY17_bin16
110 prop_binY17_bin28
111 pdf17
112 pdf20
113 prop_binY16_bin2
114 prop_binY17_bin34
115 emucostrw3b1718
116 pdf30
117 prop_binY18_bin17
118 pdf8
119 pdf22
120 prop_binY16_bin0
×10
−2
−1
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1
2
−0.2
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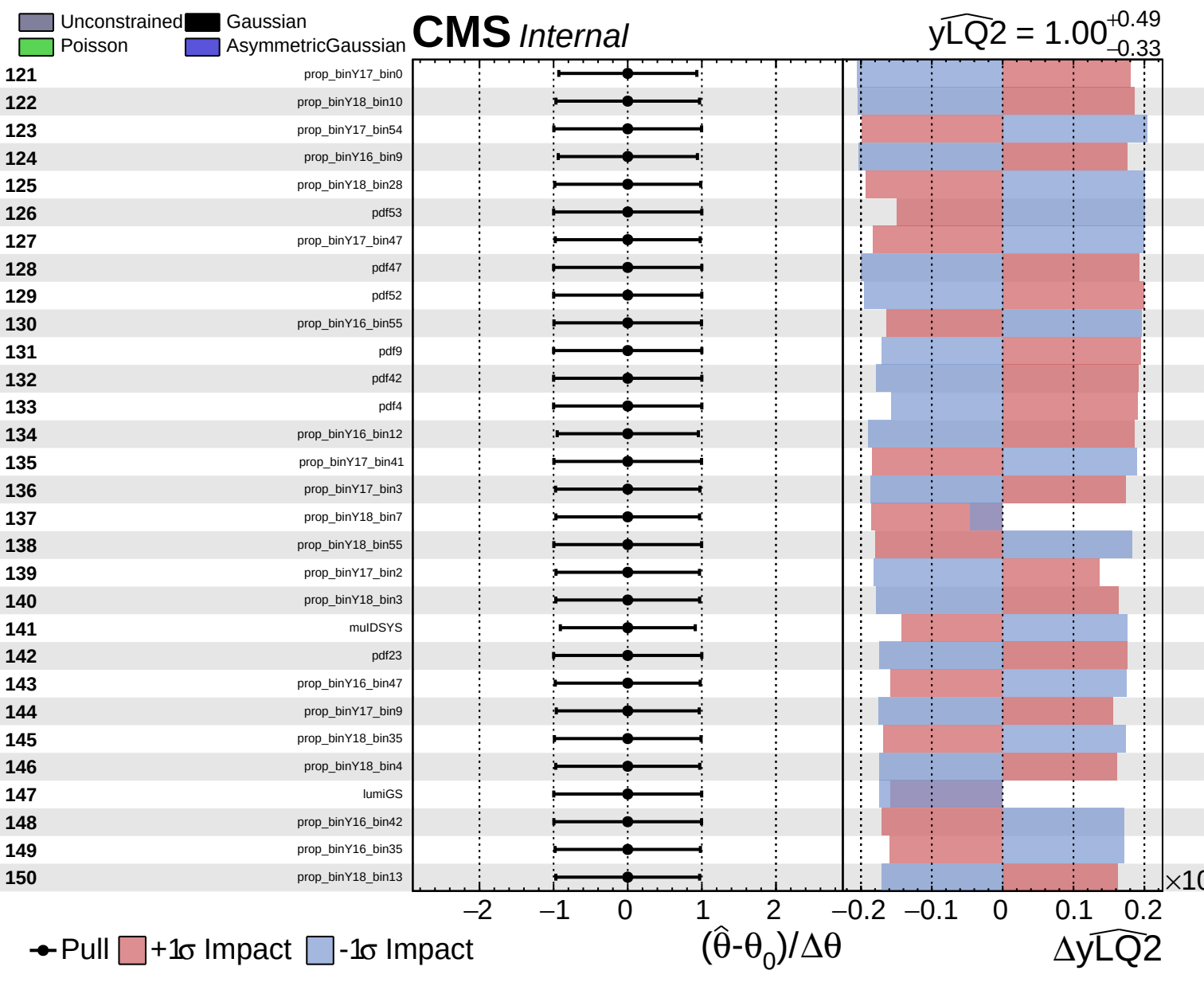
0.2
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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122 prop_binY18_bin10
123 prop_binY17_bin54
124 prop_binY16_bin9
125 prop_binY18_bin28
126 pdf53
127 prop_binY17_bin47
128 pdf47
129 pdf52
130 prop_binY16_bin55
131 pdf9
132 pdf42
133 pdf4
134 prop_binY16_bin12
135 prop_binY17_bin41
136 prop_binY17_bin3
137 prop_binY18_bin7
138 prop_binY18_bin55
139 prop_binY17_bin2
140 prop_binY18_bin3
141 mulDSYS
142 pdf23
143 prop_binY16_bin47
144 prop_binY17_bin9
145 prop_binY18_bin35
146 prop_binY18_bin4
147 lumiGS
148 prop_binY16_bin42
149 prop_binY16_bin35
150 prop_binY18_bin13
−2 −1 0 1 2
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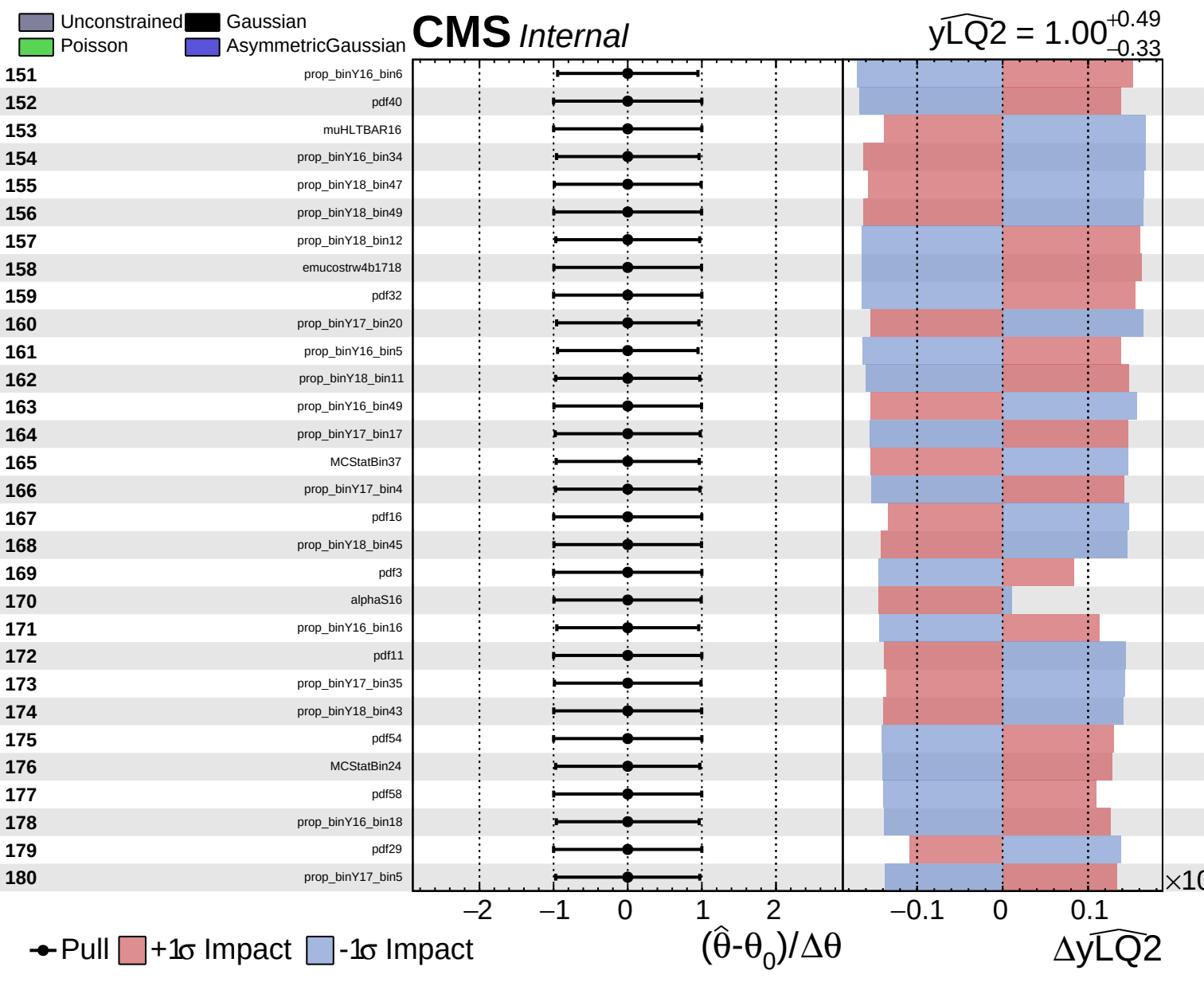
×10
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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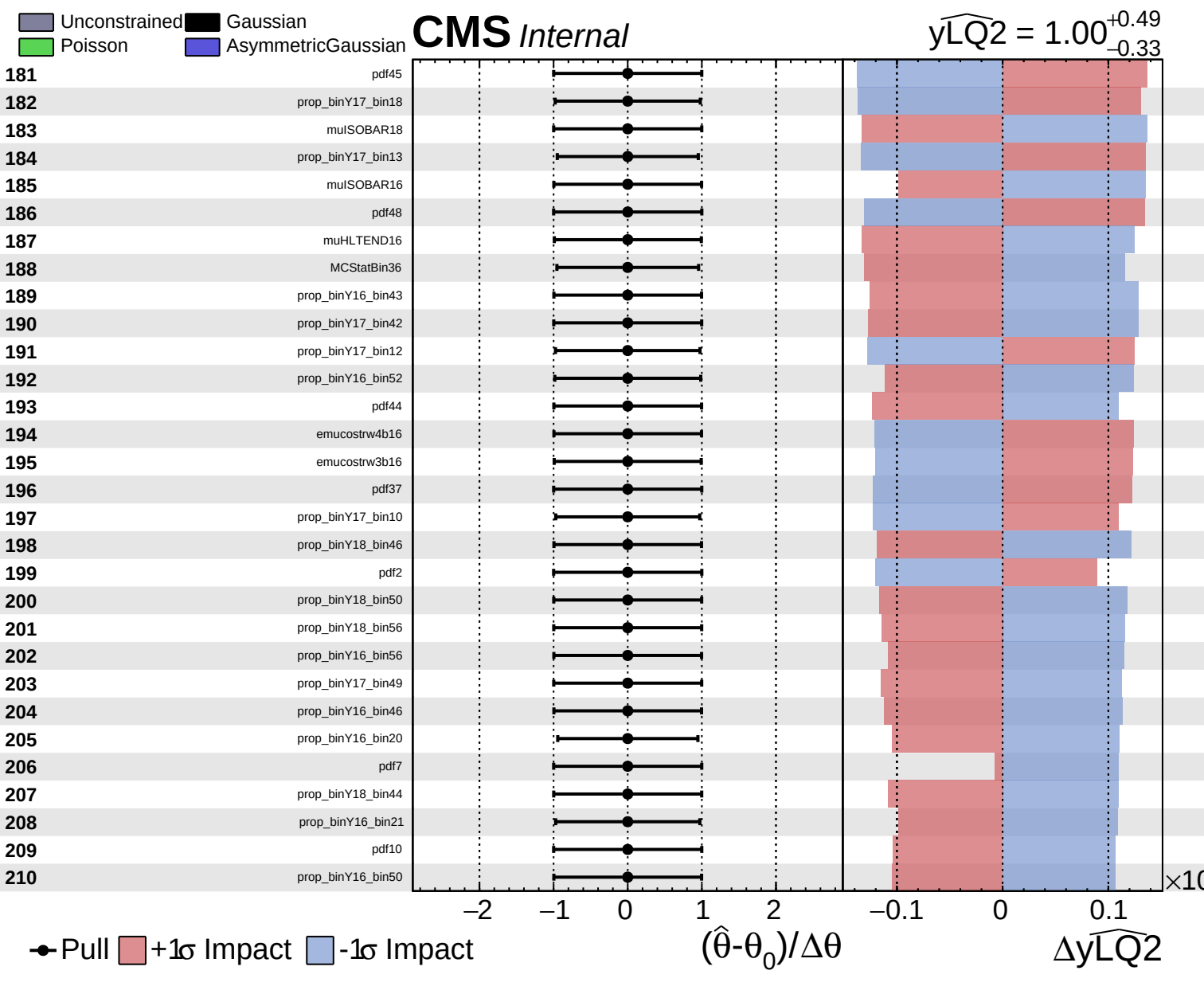
152 pdf40
153 muHLTBAR16
154 prop_binY16_bin34
155 prop_binY18_bin47
156 prop_binY18_bin49
157 prop_binY18_bin12
158 emucostrw4b1718
159 pdf32
160 prop_binY17_bin20
161 prop_binY16_bin5
162 prop_binY18_bin11
163 prop_binY16_bin49
164 prop_binY17_bin17
165 MCStatBin37
166 prop_binY17_bin4
167 pdf16
168 prop_binY18_bin45
169 pdf3
170 alphaS16
171 prop_binY16_bin16
172 pdf11
173 prop_binY17_bin35
174 prop_binY18_bin43
175 pdf54
176 MCStatBin24
177 pdf58
178 prop_binY16_bin18
179 pdf29
180 prop_binY17_bin5
−2 −1 0 1 2
−0.1 0 0.1
×10
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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183 muISOBAR18
184 prop_binY17_bin13
185 muISOBAR16
186 pdf48
187 muHLTEND16
188 MCStatBin36
189 prop_binY16_bin43
190 prop_binY17_bin42
191 prop_binY17_bin12
192 prop_binY16_bin52
193 pdf44
194 emucostrw4b16
195 emucostrw3b16
196 pdf37
197 prop_binY17_bin10
198 prop_binY18_bin46
199 pdf2
200 prop_binY18_bin50
201 prop_binY18_bin56
202 prop_binY16_bin56
203 prop_binY17_bin49
204 prop_binY16_bin46
205 prop_binY16_bin20
206 pdf7
207 prop_binY18_bin44
208 prop_binY16_bin21
209 pdf10
210 prop_binY16_bin50
×10
−2
−1
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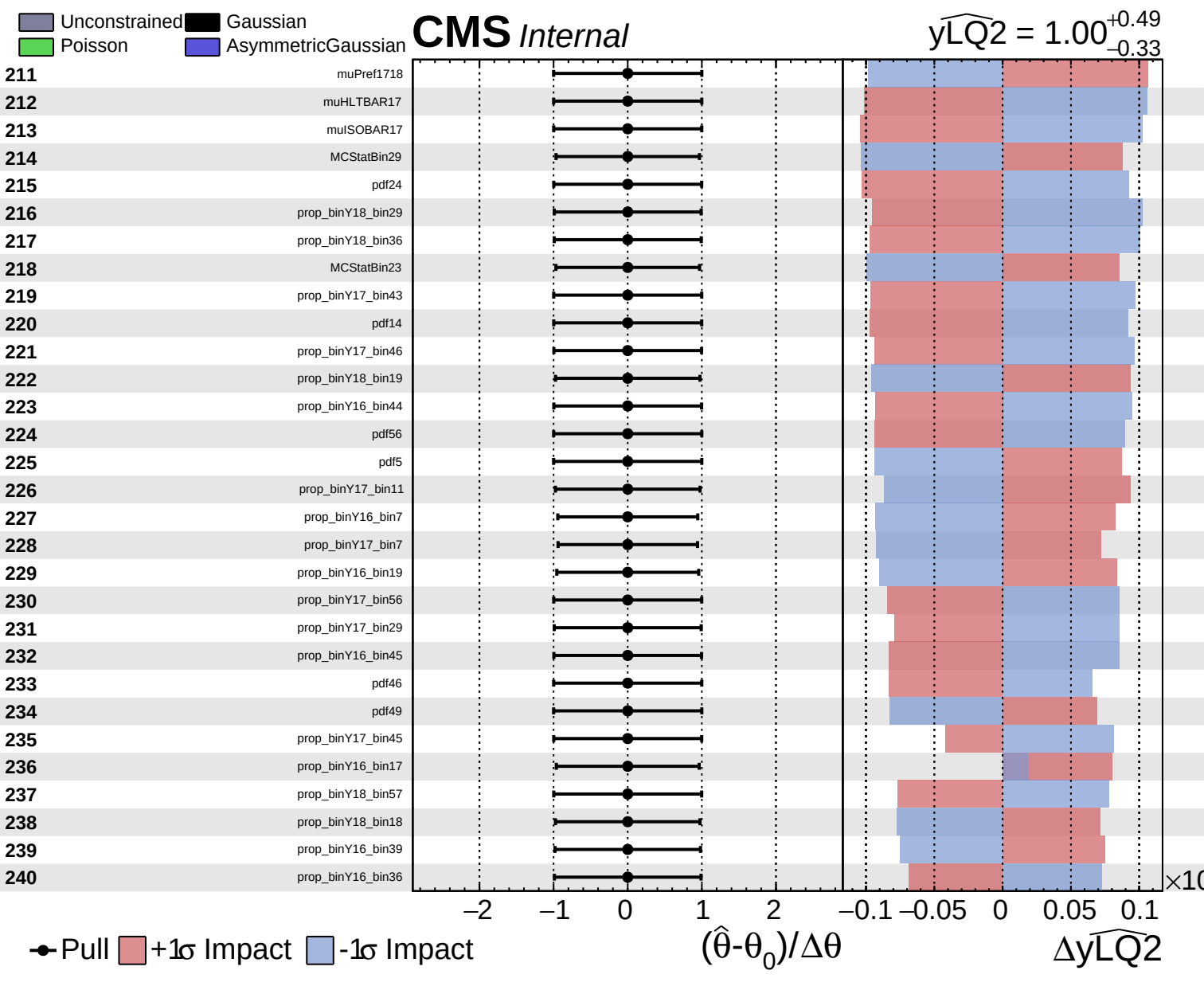
−0.1
0
0.1
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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213 muISOBAR17
214 MCStatBin29
215 pdf24
216 prop_binY18_bin29
217 prop_binY18_bin36
218 MCStatBin23
219 prop_binY17_bin43
220 pdf14
221 prop_binY17_bin46
222 prop_binY18_bin19
223 prop_binY16_bin44
224 pdf56
225 pdf5
226 prop_binY17_bin11
227 prop_binY16_bin7
228 prop_binY17_bin7
229 prop_binY16_bin19
230 prop_binY17_bin56
231 prop_binY17_bin29
232 prop_binY16_bin45
233 pdf46
234 pdf49
235 prop_binY17_bin45
236 prop_binY16_bin17
237 prop_binY18_bin57
238 prop_binY18_bin18
239 prop_binY16_bin39
240 prop_binY16_bin36
×10
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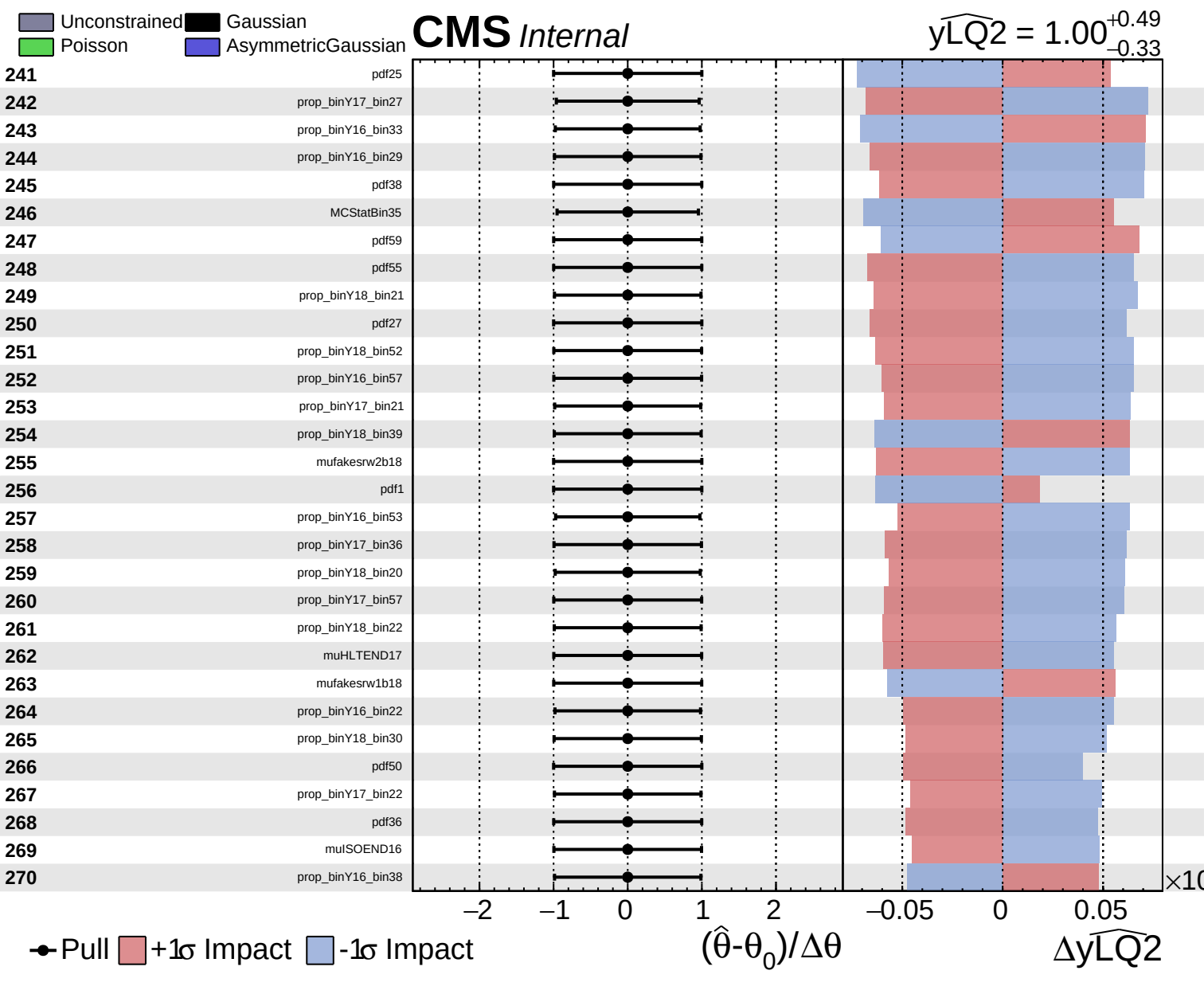
−0.1 −0.05 0 0.05 0.1
Pull +1σ Impact -1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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CMS Internal
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244 prop_binY16_bin29
245 pdf38
246 MCStatBin35
247 pdf59
248 pdf55
249 prop_binY18_bin21
250 pdf27
251 prop_binY18_bin52
252 prop_binY16_bin57
253 prop_binY17_bin21
254 prop_binY18_bin39
255 mufakesrw2b18
256 pdf1
257 prop_binY16_bin53
258 prop_binY17_bin36
259 prop_binY18_bin20
260 prop_binY17_bin57
261 prop_binY18_bin22
262 muHLTEND17
263 mufakesrw1b18
264 prop_binY16_bin22
265 prop_binY18_bin30
266 pdf50
267 prop_binY17_bin22
268 pdf36
269 muISOEND16
270 prop_binY16_bin38
×10
−2
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0
1
2
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0
0.05
Pull
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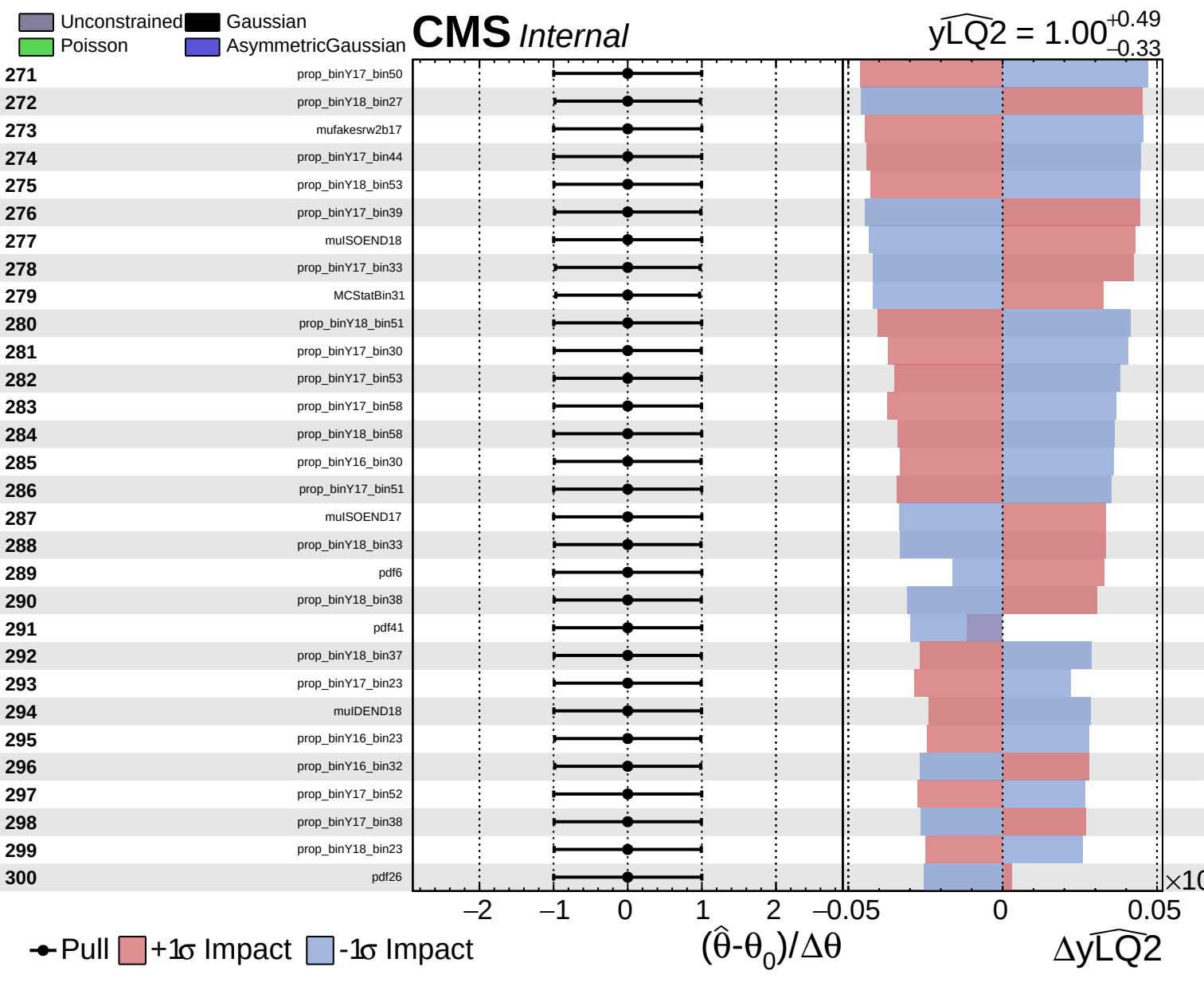
-1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2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273 mufakesrw2b17
274 prop_binY17_bin44
275 prop_binY18_bin53
276 prop_binY17_bin39
277 muISOEND18
278 prop_binY17_bin33
279 MCStatBin31
280 prop_binY18_bin51
281 prop_binY17_bin30
282 prop_binY17_bin53
283 prop_binY17_bin58
284 prop_binY18_bin58
285 prop_binY16_bin30
286 prop_binY17_bin51
287 muISOEND17
288 prop_binY18_bin33
289 pdf6
290 prop_binY18_bin38
291 pdf41
292 prop_binY18_bin37
293 prop_binY17_bin23
294 muIDEND18
295 prop_binY16_bin23
296 prop_binY16_bin32
297 prop_binY17_bin52
298 prop_binY17_bin38
299 prop_binY18_bin23
300 pdf26
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−1
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0.05
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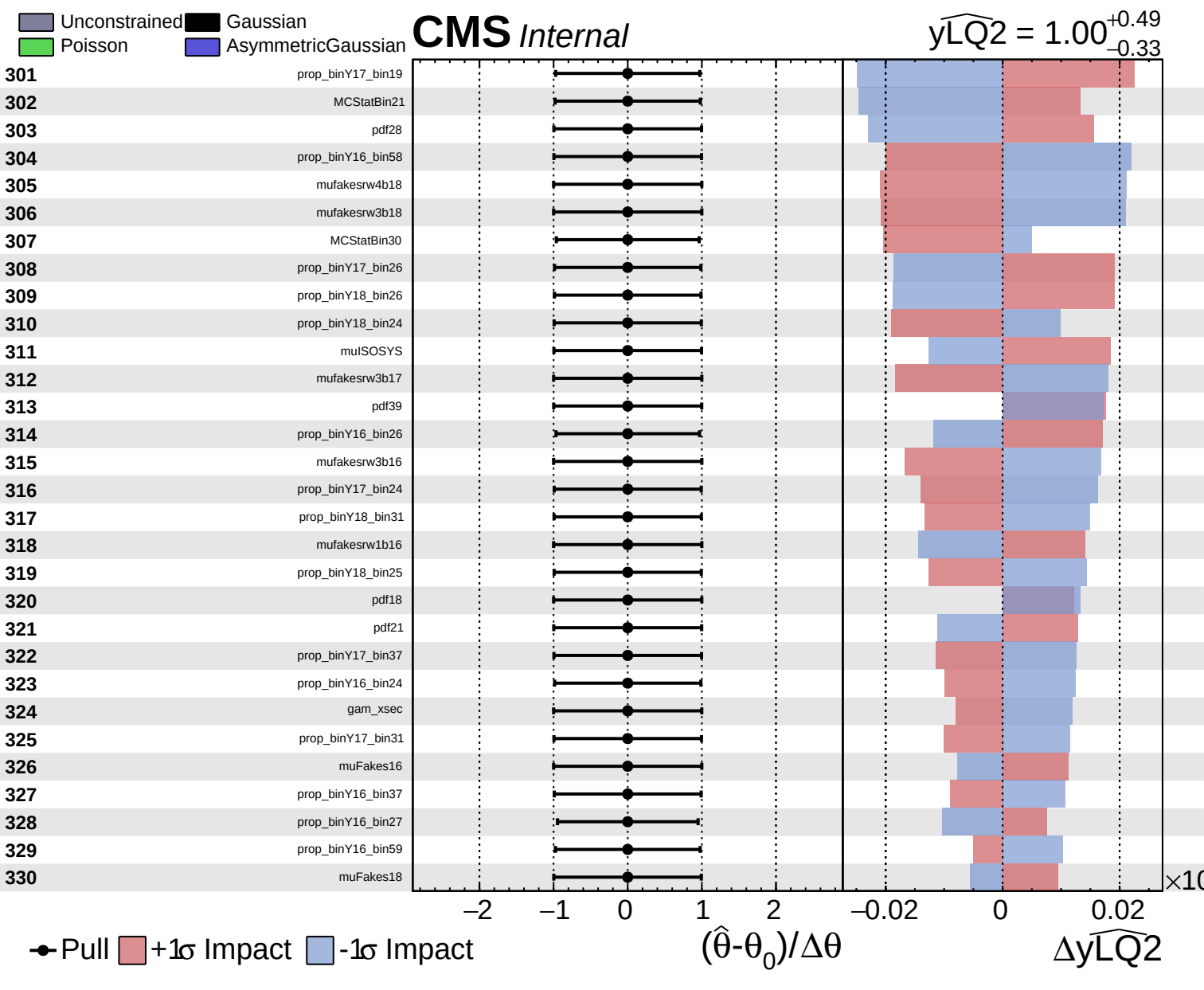
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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305 mufakesrw4b18
306 mufakesrw3b18
307 MCStatBin30
308 prop_binY17_bin26
309 prop_binY18_bin26
310 prop_binY18_bin24
311 muISOSYS
312 mufakesrw3b17
313 pdf39
314 prop_binY16_bin26
315 mufakesrw3b16
316 prop_binY17_bin24
317 prop_binY18_bin31
318 mufakesrw1b16
319 prop_binY18_bin25
320 pdf18
321 pdf21
322 prop_binY17_bin37
323 prop_binY16_bin24
324 gam_xsec
325 prop_binY17_bin31
326 muFakes16
327 prop_binY16_bin37
328 prop_binY16_bin27
329 prop_binY16_bin59
330 muFakes18
−2
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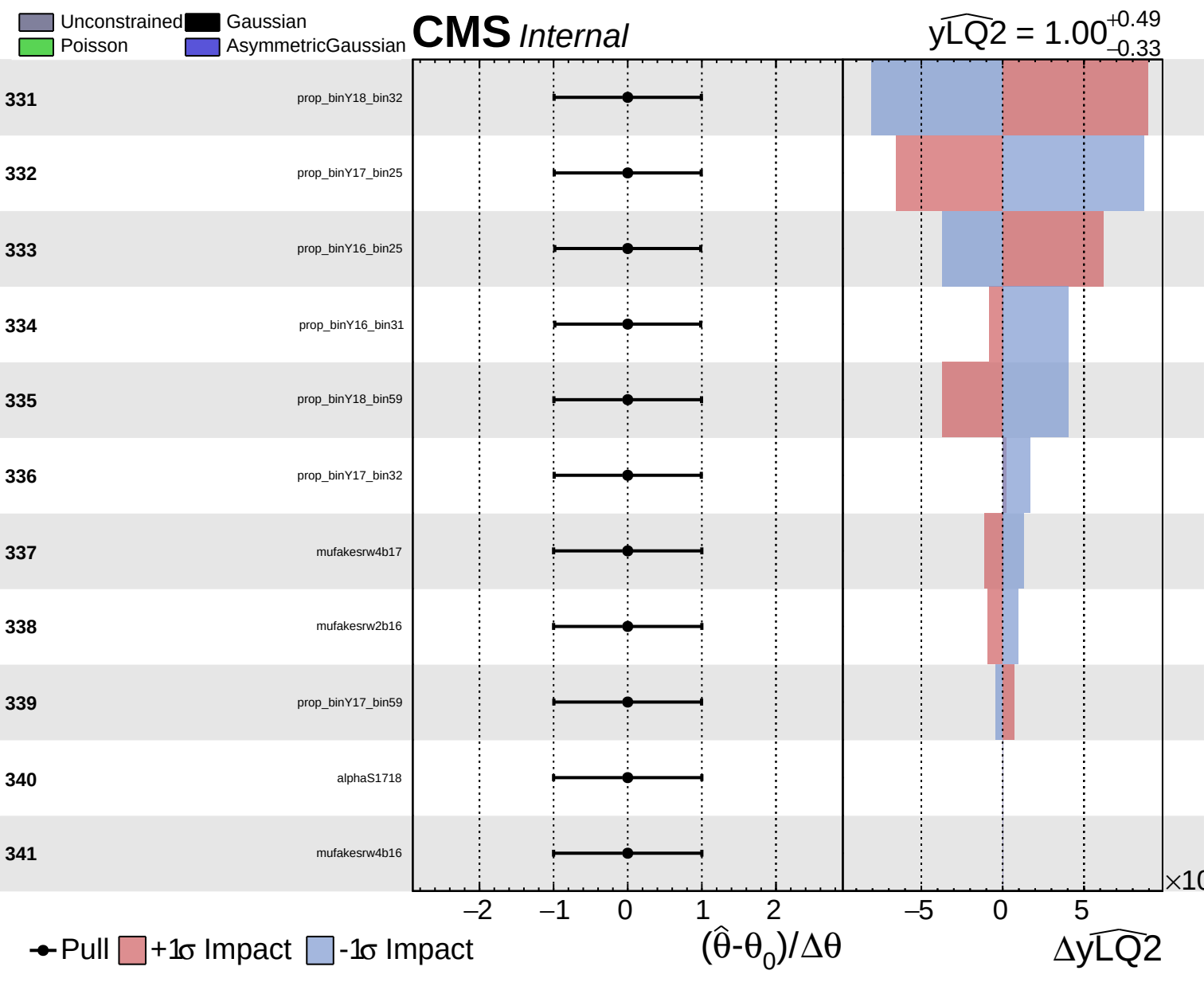
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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334 prop_binY16_bin31
335 prop_binY18_bin59
336 prop_binY17_bin32
337 mufakesrw4b17
338 mufakesrw2b16
339 prop_binY17_bin59
340 alphaS1718
341 mufakesrw4b16
×10
−2 −1 0 1 2
−5 0 5
Pull +1σ Impact -1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2