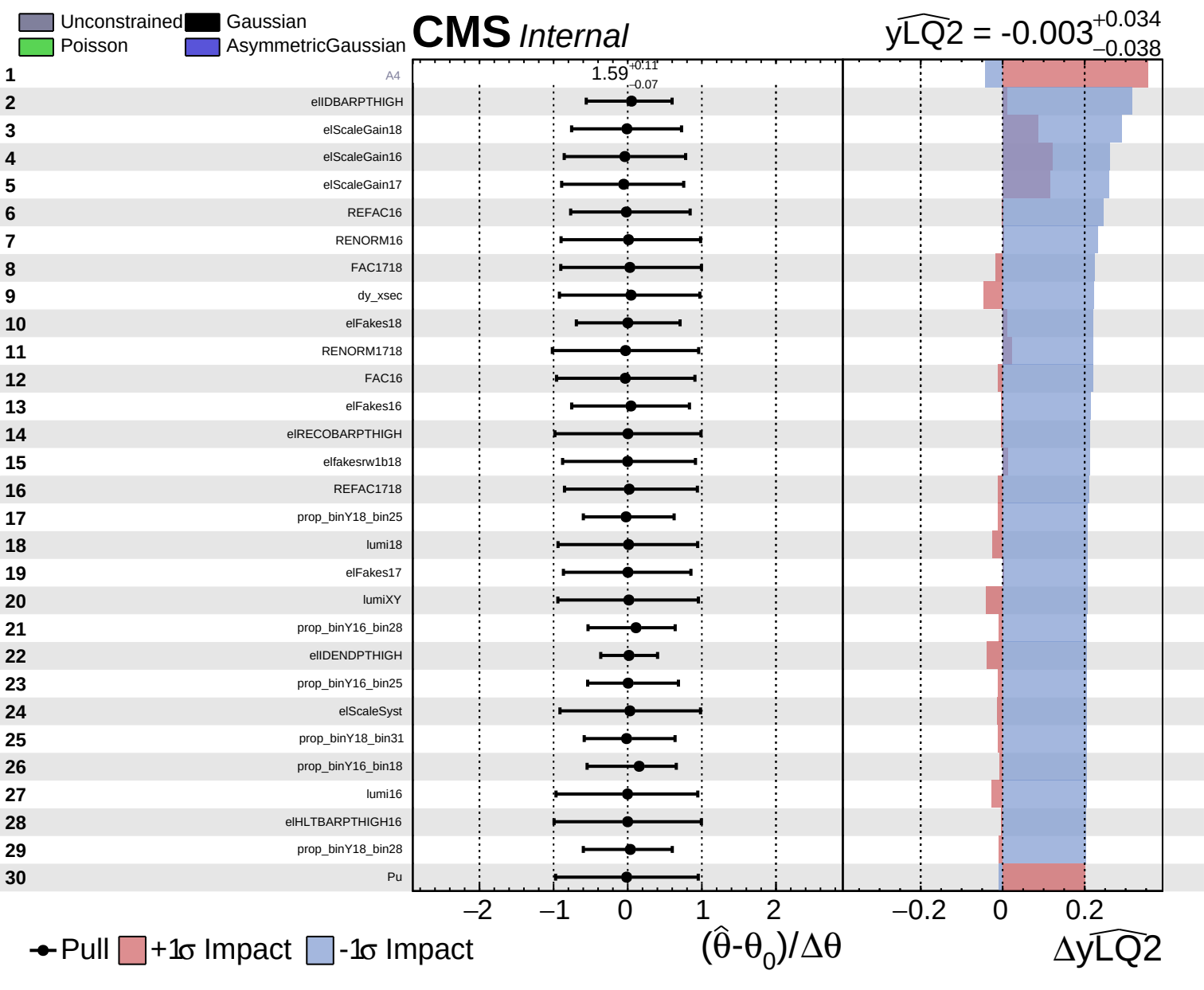
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1 A4
1.59 +0.11 −0.07
2 elIDBARPTHIGH
3 elScaleGain18
4 elScaleGain16
5 elScaleGain17
6 REFAC16
7 RENORM16
8 FAC1718
9 dy_xsec
10 elFakes18
11 RENORM1718
12 FAC16
13 elFakes16
14 elRECOBARPTHIGH
15 elfakesrw1b18
16 REFAC1718
17 prop_binY18_bin25
18 lumi18
19 elFakes17
20 lumiXY
21 prop_binY16_bin28
22 elIDENDPTHIGH
23 prop_binY16_bin25
24 elScaleSyst
25 prop_binY18_bin31
26 prop_binY16_bin18
27 lumi16
28 elHLTBARPTHIGH16
29 prop_binY18_bin28
30 Pu
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−0.2 0 0.2
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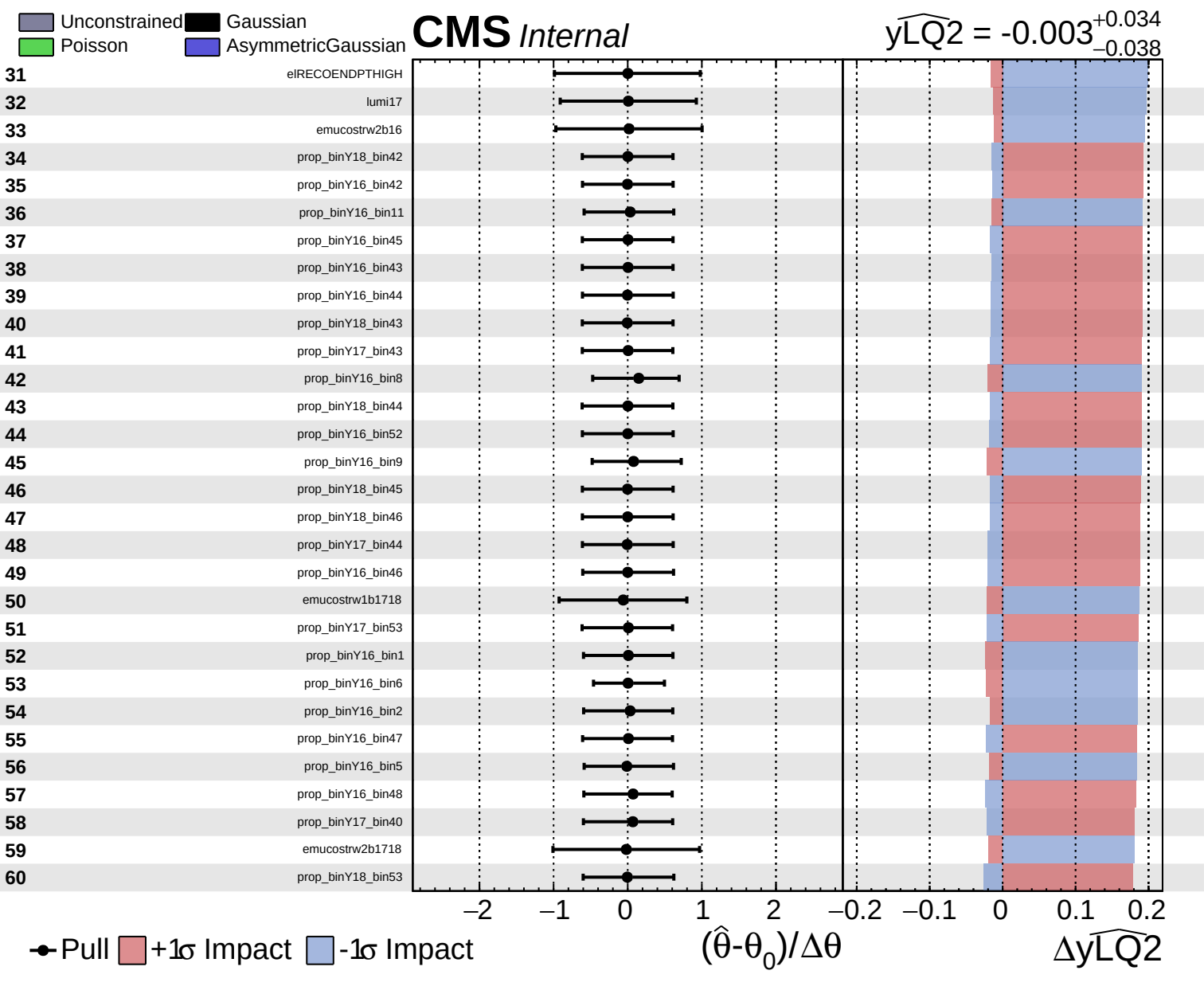
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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32 lumi17
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35 prop_binY16_bin42
36 prop_binY16_bin11
37 prop_binY16_bin45
38 prop_binY16_bin43
39 prop_binY16_bin44
40 prop_binY18_bin43
41 prop_binY17_bin43
42 prop_binY16_bin8
43 prop_binY18_bin44
44 prop_binY16_bin52
45 prop_binY16_bin9
46 prop_binY18_bin45
47 prop_binY18_bin46
48 prop_binY17_bin44
49 prop_binY16_bin46
50 emucostrw1b1718
51 prop_binY17_bin53
52 prop_binY16_bin1
53 prop_binY16_bin6
54 prop_binY16_bin2
55 prop_binY16_bin47
56 prop_binY16_bin5
57 prop_binY16_bin48
58 prop_binY17_bin40
59 emucostrw2b1718
60 prop_binY18_bin53
−2 −1 0 1 2
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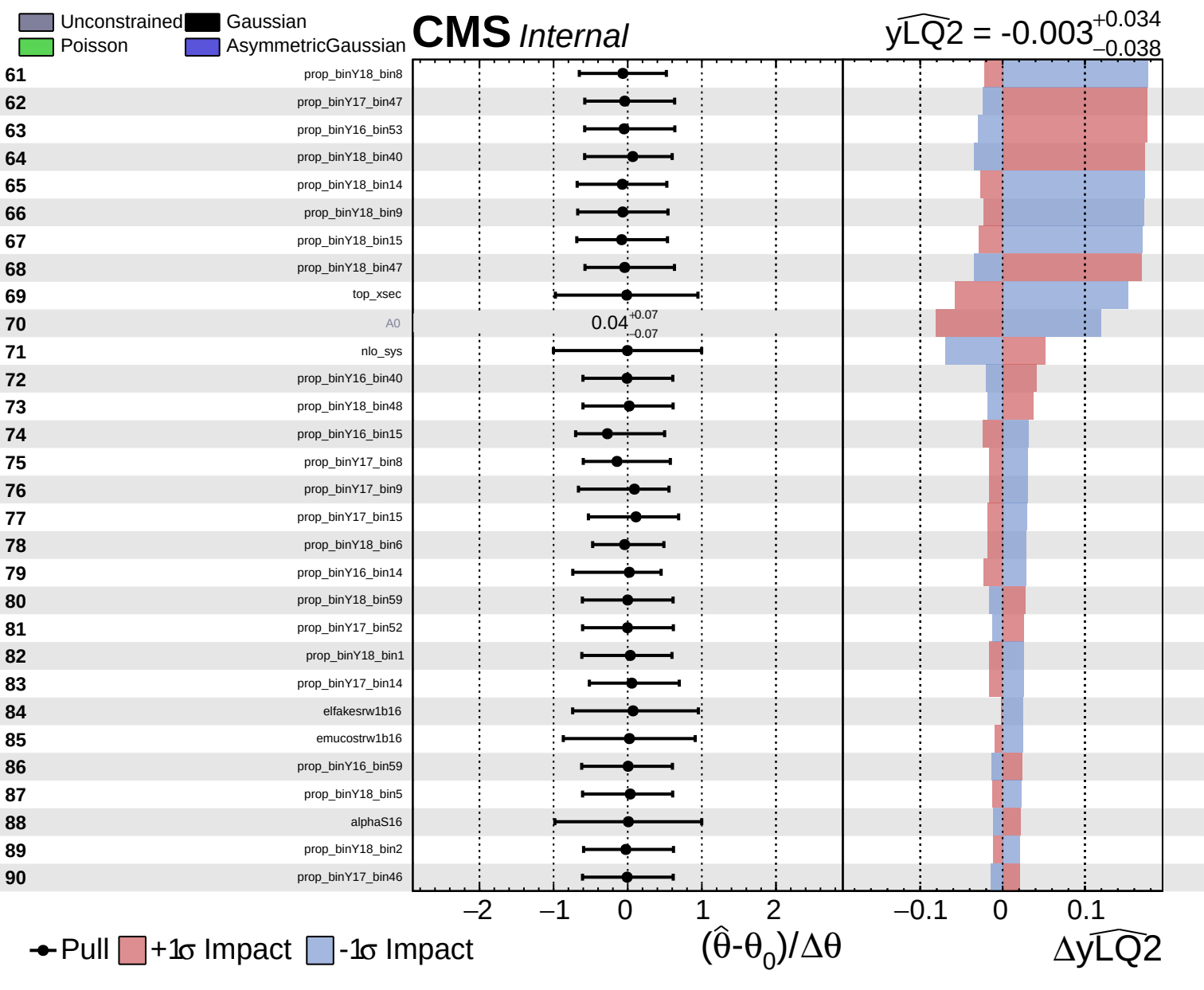
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2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63 prop_binY16_bin53
64 prop_binY18_bin40
65 prop_binY18_bin14
66 prop_binY18_bin9
67 prop_binY18_bin15
68 prop_binY18_bin47
69 top_xsec
70 A0
0.04 +0.07 −0.07
71 nlo_sys
72 prop_binY16_bin40
73 prop_binY18_bin48
74 prop_binY16_bin15
75 prop_binY17_bin8
76 prop_binY17_bin9
77 prop_binY17_bin15
78 prop_binY18_bin6
79 prop_binY16_bin14
80 prop_binY18_bin59
81 prop_binY17_bin52
82 prop_binY18_bin1
83 prop_binY17_bin14
84 elfakesrw1b16
85 emucostrw1b16
86 prop_binY16_bin59
87 prop_binY18_bin5
88 alphaS16
89 prop_binY18_bin2
90 prop_binY17_bin46
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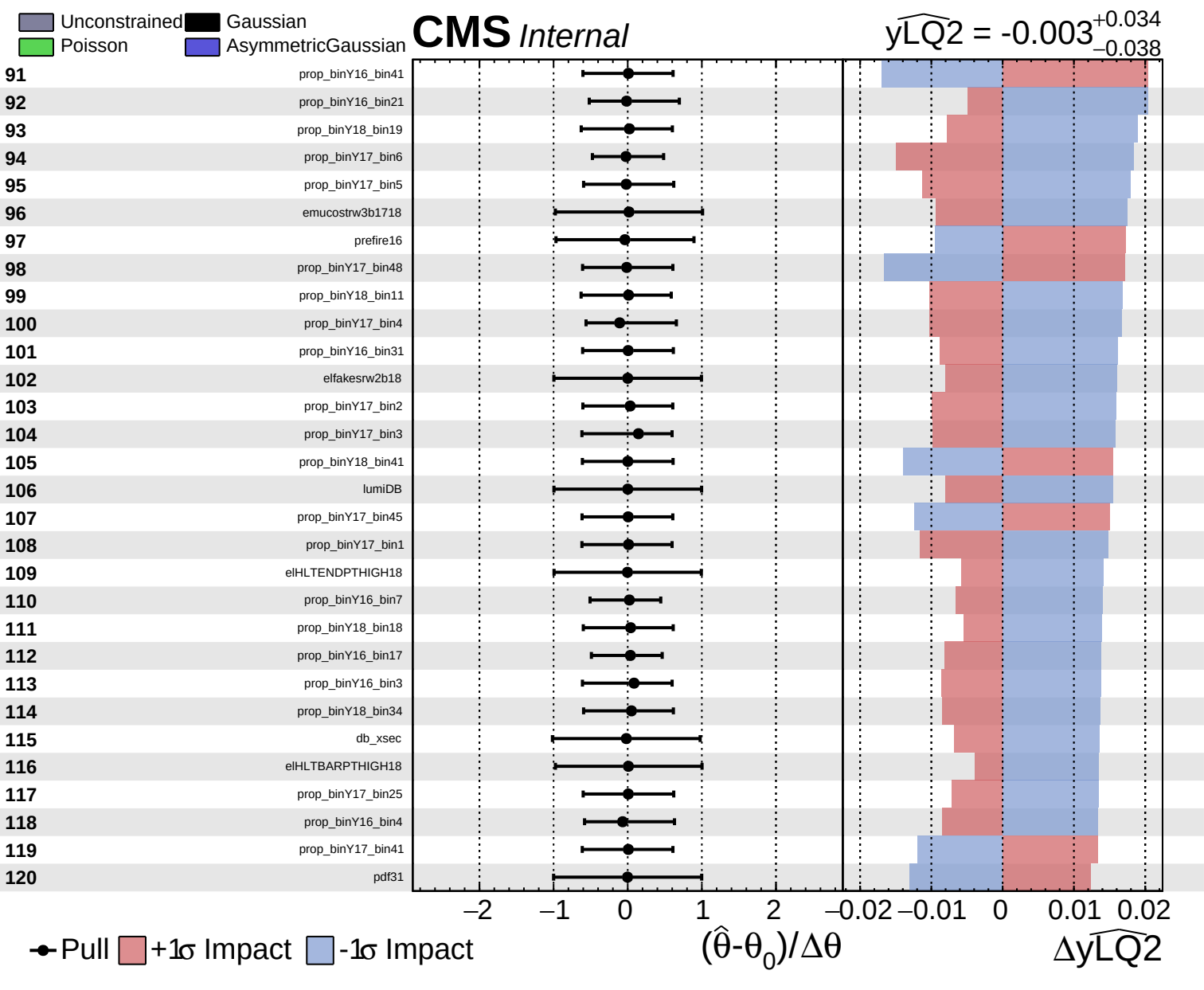
−0.1 0 0.1
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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AsymmetricGaussian
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92 prop_binY16_bin21
93 prop_binY18_bin19
94 prop_binY17_bin6
95 prop_binY17_bin5
96 emucostrw3b1718
97 prefire16
98 prop_binY17_bin48
99 prop_binY18_bin11
100 prop_binY17_bin4
101 prop_binY16_bin31
102 elfakesrw2b18
103 prop_binY17_bin2
104 prop_binY17_bin3
105 prop_binY18_bin41
106 lumiDB
107 prop_binY17_bin45
108 prop_binY17_bin1
109 elHLTENDPTHIGH18
110 prop_binY16_bin7
111 prop_binY18_bin18
112 prop_binY16_bin17
113 prop_binY16_bin3
114 prop_binY18_bin34
115 db_xsec
116 elHLTBARPTHIGH18
117 prop_binY17_bin25
118 prop_binY16_bin4
119 prop_binY17_bin41
120 pdf31
−2 −1 0 1 2
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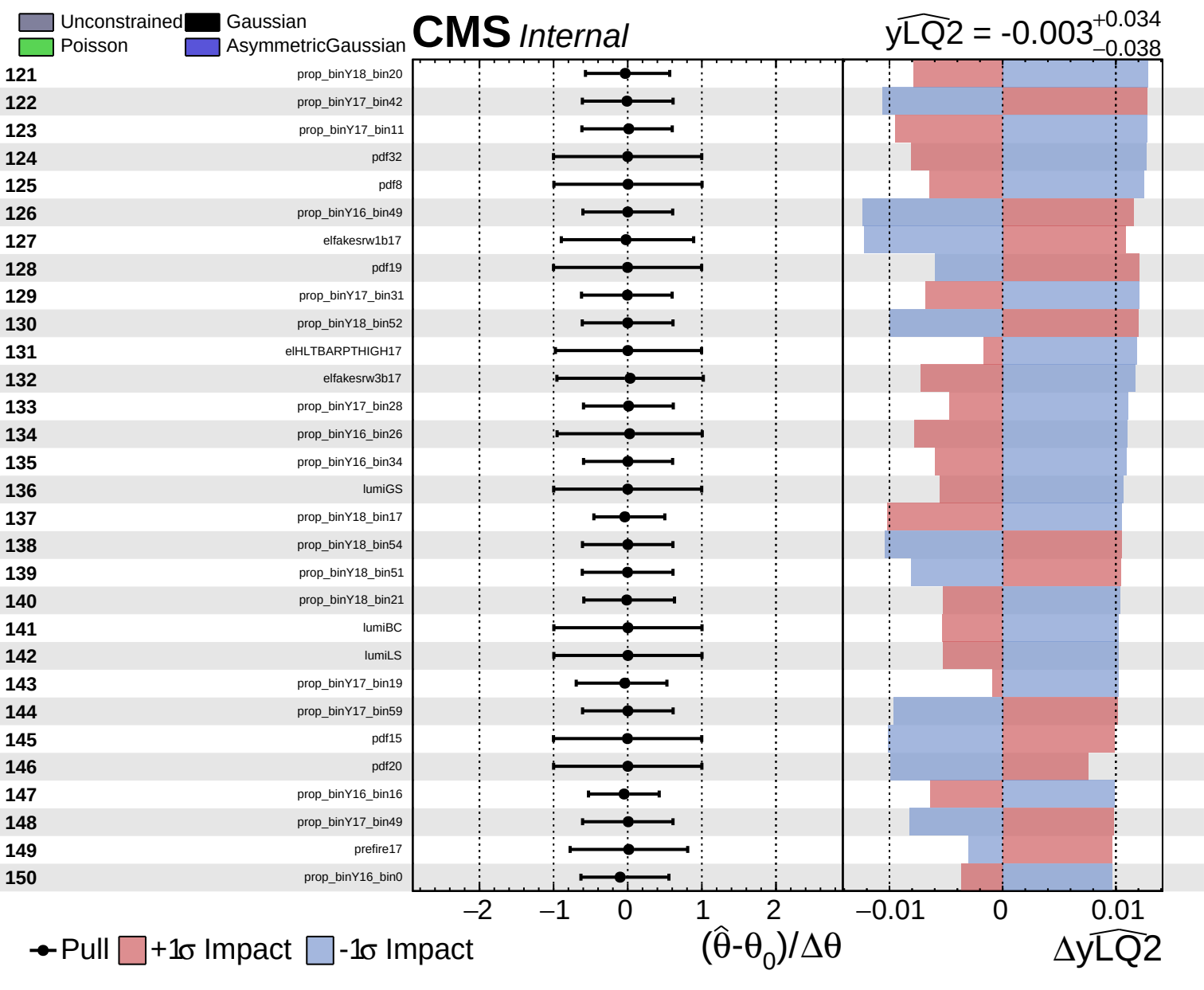
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2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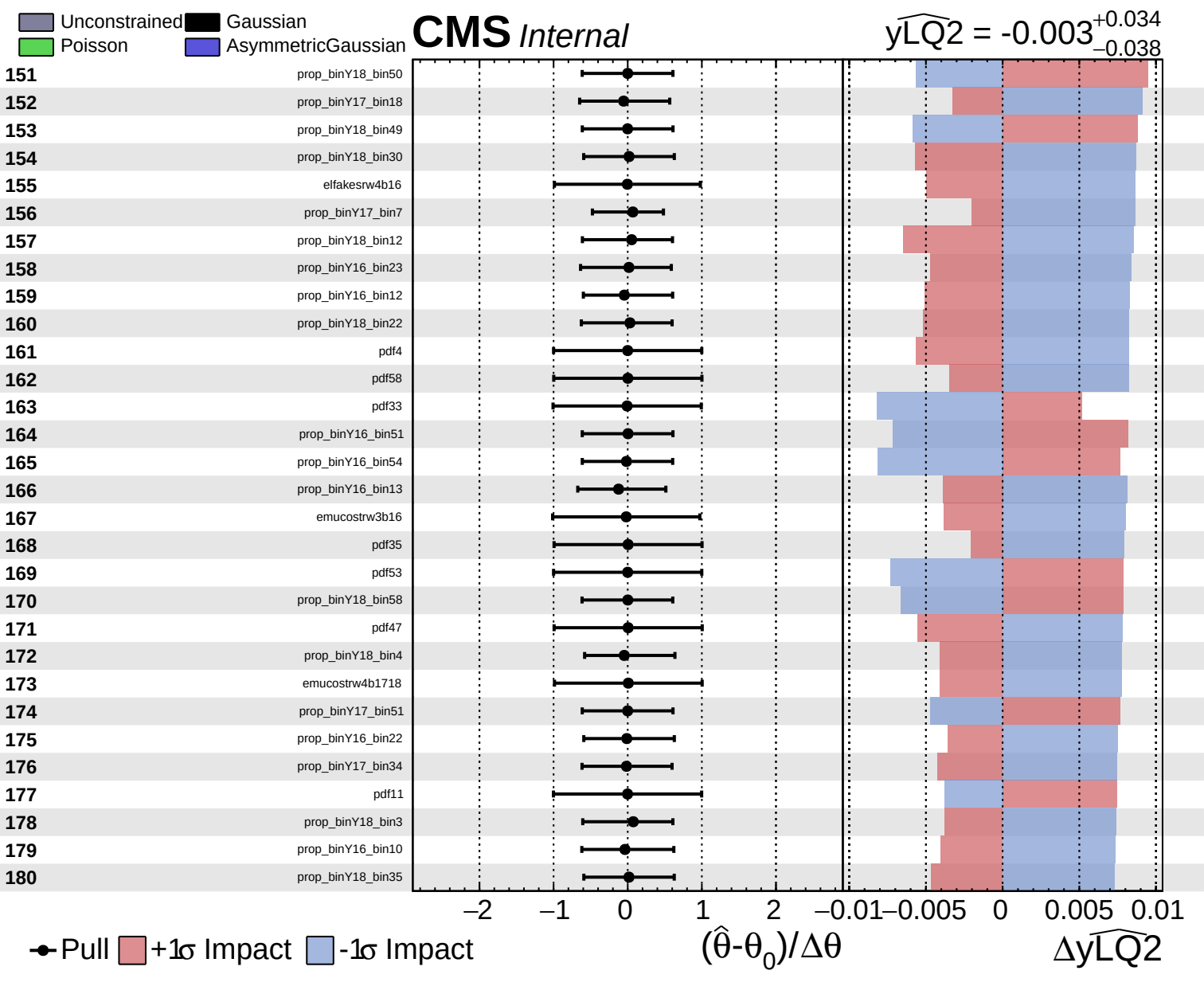
Poisson
AsymmetricGaussian
CMS Internal
ŷLQ2 = -0.003 +0.034 −0.038
121 prop_binY18_bin20
122 prop_binY17_bin42
123 prop_binY17_bin11
124 pdf32
125 pdf8
126 prop_binY16_bin49
127 elfakesrw1b17
128 pdf19
129 prop_binY17_bin31
130 prop_binY18_bin52
131 elHLTBARPTHIGH17
132 elfakesrw3b17
133 prop_binY17_bin28
134 prop_binY16_bin26
135 prop_binY16_bin34
136 lumiGS
137 prop_binY18_bin17
138 prop_binY18_bin54
139 prop_binY18_bin51
140 prop_binY18_bin21
141 lumiBC
142 lumiLS
143 prop_binY17_bin19
144 prop_binY17_bin59
145 pdf15
146 pdf20
147 prop_binY16_bin16
148 prop_binY17_bin49
149 prefire17
150 prop_binY16_bin0
−2 −1 0 1 2
−0.01 0 0.01
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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Poisson
AsymmetricGaussian
CMS Internal
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152 prop_binY17_bin18
153 prop_binY18_bin49
154 prop_binY18_bin30
155 elfakesrw4b16
156 prop_binY17_bin7
157 prop_binY18_bin12
158 prop_binY16_bin23
159 prop_binY16_bin12
160 prop_binY18_bin22
161 pdf4
162 pdf58
163 pdf33
164 prop_binY16_bin51
165 prop_binY16_bin54
166 prop_binY16_bin13
167 emucostrw3b16
168 pdf35
169 pdf53
170 prop_binY18_bin58
171 pdf47
172 prop_binY18_bin4
173 emucostrw4b1718
174 prop_binY17_bin51
175 prop_binY16_bin22
176 prop_binY17_bin34
177 pdf11
178 prop_binY18_bin3
179 prop_binY16_bin10
180 prop_binY18_bin35
−2 −1 0 1 2
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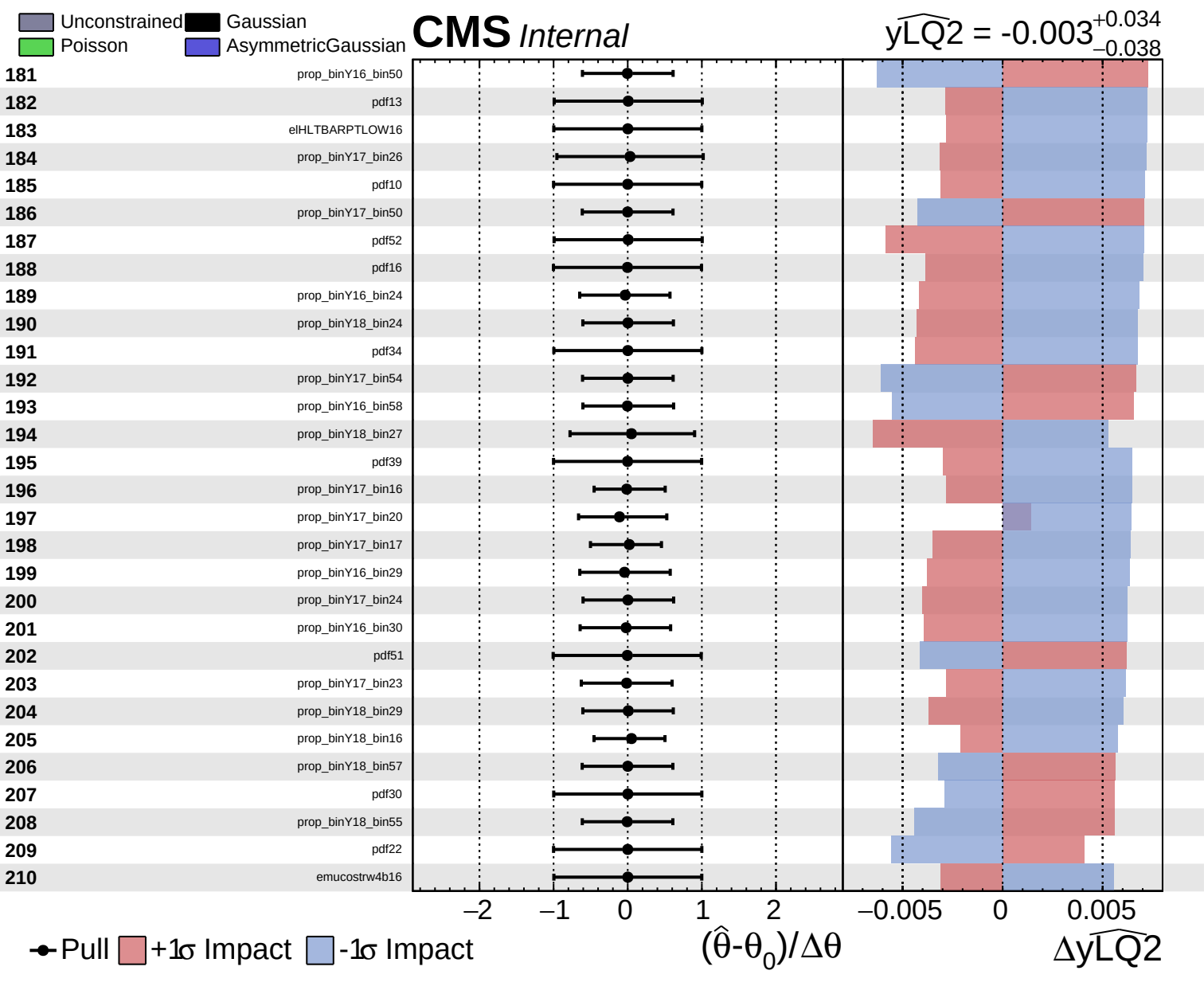
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔŷLQ2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Poisson
AsymmetricGaussian
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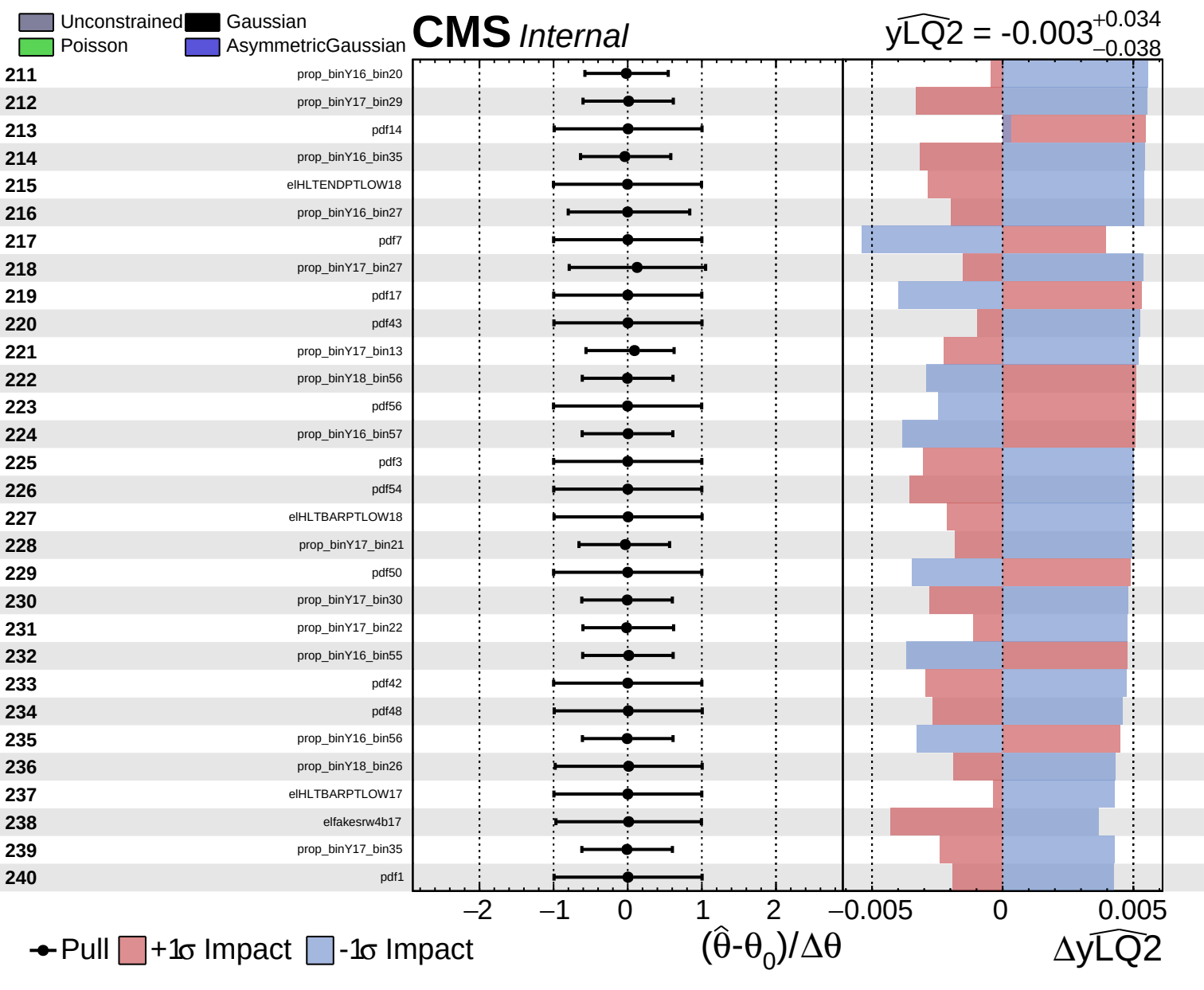
yLQ2 = -0.003 +0.034 −0.038
181 prop_binY16_bin50
182 pdf13
183 elHLTBARPTLOW16
184 prop_binY17_bin26
185 pdf10
186 prop_binY17_bin50
187 pdf52
188 pdf16
189 prop_binY16_bin24
190 prop_binY18_bin24
191 pdf34
192 prop_binY17_bin54
193 prop_binY16_bin58
194 prop_binY18_bin27
195 pdf39
196 prop_binY17_bin16
197 prop_binY17_bin20
198 prop_binY17_bin17
199 prop_binY16_bin29
200 prop_binY17_bin24
201 prop_binY16_bin30
202 pdf51
203 prop_binY17_bin23
204 prop_binY18_bin29
205 prop_binY18_bin16
206 prop_binY18_bin57
207 pdf30
208 prop_binY18_bin55
209 pdf22
210 emucostrw4b16
−2 −1 0 1 2
−0.005 0 0.005
Pull +1σ Impact -1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2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Poisson
AsymmetricGaussian
CMS Internal
yLQ2 = -0.003 +0.034 −0.038
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212 prop_binY17_bin29
213 pdf14
214 prop_binY16_bin35
215 elHLTENDPTLOW18
216 prop_binY16_bin27
217 pdf7
218 prop_binY17_bin27
219 pdf17
220 pdf43
221 prop_binY17_bin13
222 prop_binY18_bin56
223 pdf56
224 prop_binY16_bin57
225 pdf3
226 pdf54
227 elHLTBARPTLOW18
228 prop_binY17_bin21
229 pdf50
230 prop_binY17_bin30
231 prop_binY17_bin22
232 prop_binY16_bin55
233 pdf42
234 pdf48
235 prop_binY16_bin56
236 prop_binY18_bin26
237 elHLTBARPTLOW17
238 elfakesrw4b17
239 prop_binY17_bin35
240 pdf1
−2
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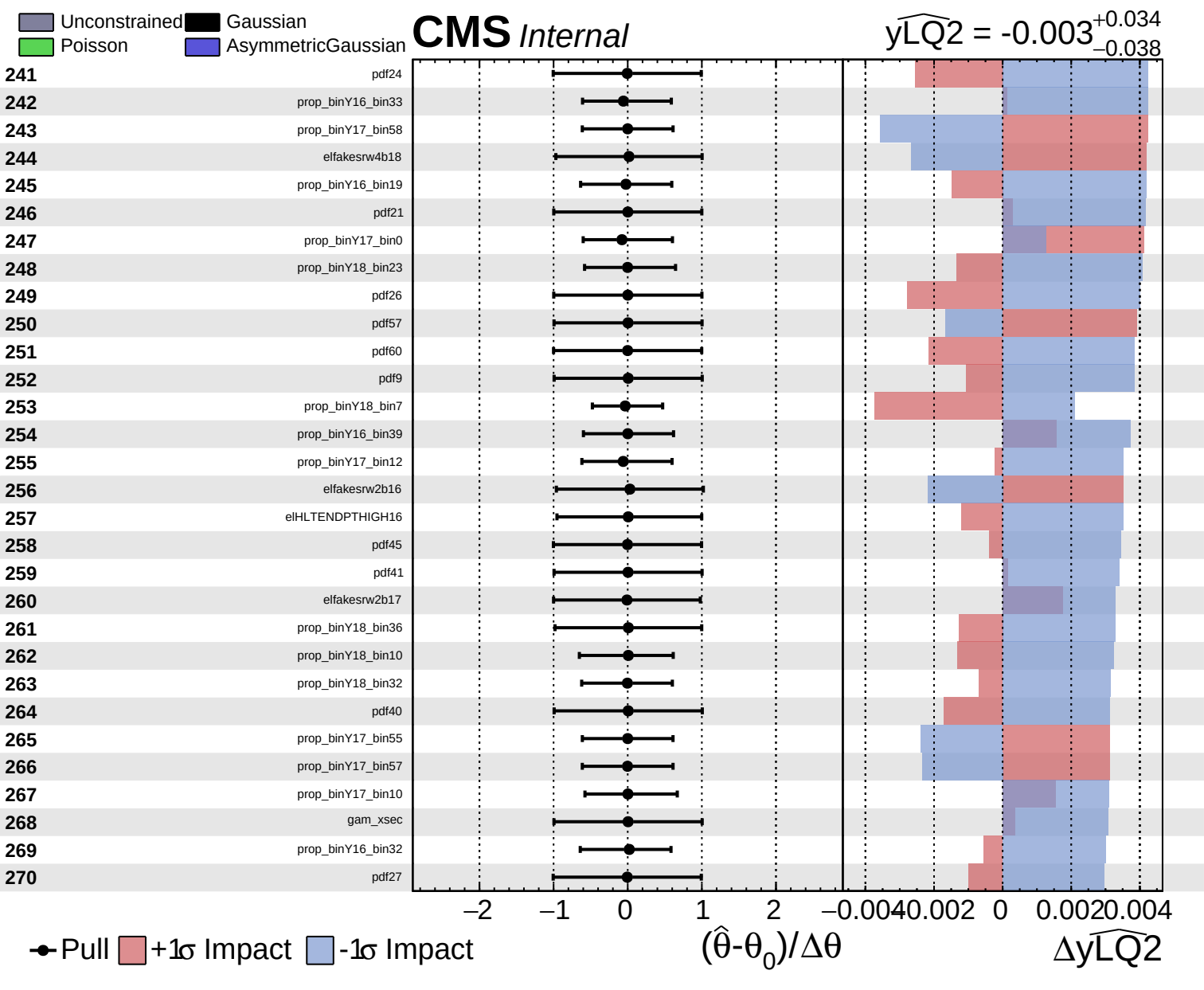
-1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2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AsymmetricGaussian
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yLQ2 = -0.003 +0.034 −0.038
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245 prop_binY16_bin19
246 pdf21
247 prop_binY17_bin0
248 prop_binY18_bin23
249 pdf26
250 pdf57
251 pdf60
252 pdf9
253 prop_binY18_bin7
254 prop_binY16_bin39
255 prop_binY17_bin12
256 elfakesrw2b16
257 elHLTENDPTHIGH16
258 pdf45
259 pdf41
260 elfakesrw2b17
261 prop_binY18_bin36
262 prop_binY18_bin10
263 prop_binY18_bin32
264 pdf40
265 prop_binY17_bin55
266 prop_binY17_bin57
267 prop_binY17_bin10
268 gam_xsec
269 prop_binY16_bin32
270 pdf27
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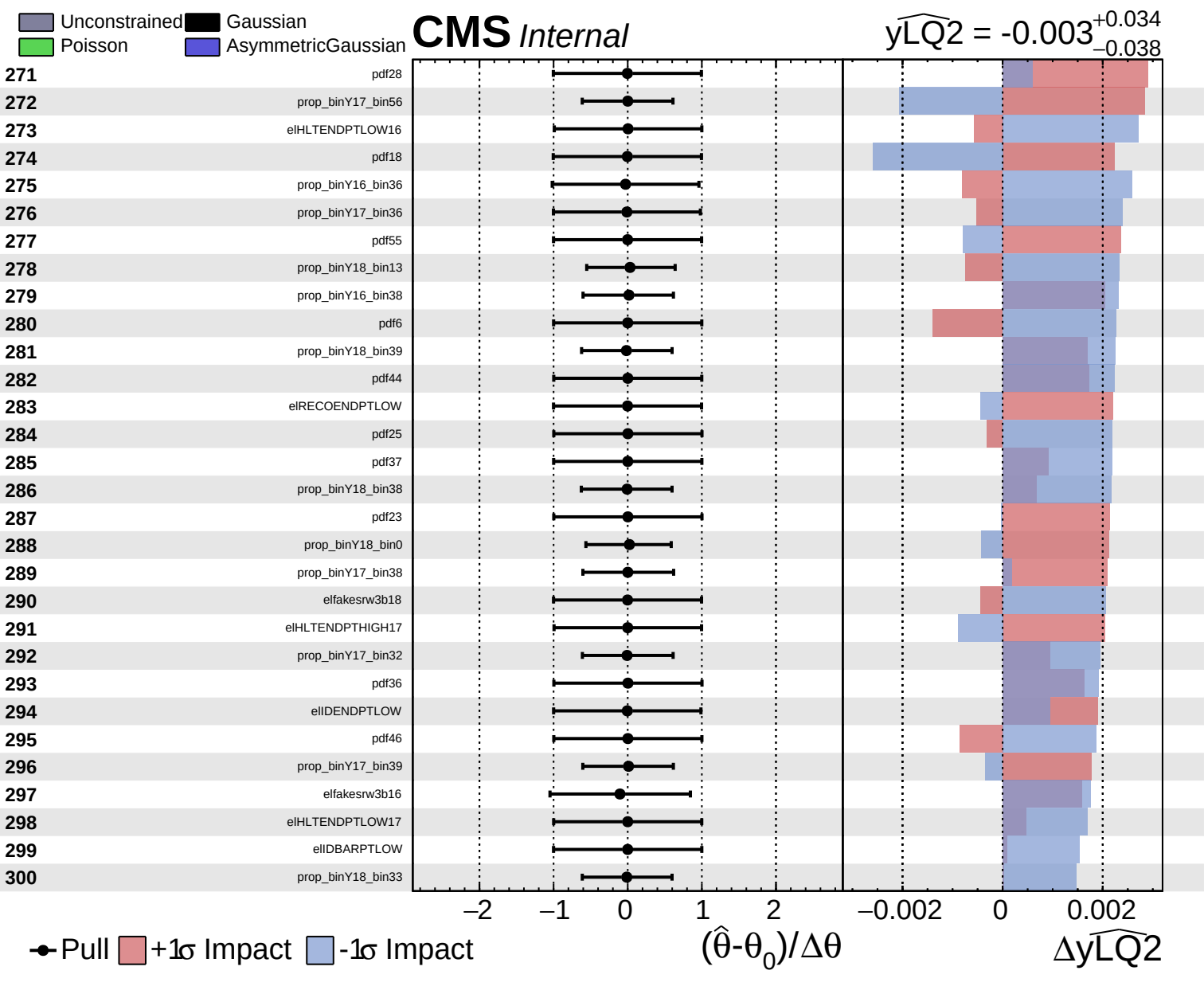
-1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2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Poisson
AsymmetricGaussian
CMS Internal
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273 elHLTENDPTLOW16
274 pdf18
275 prop_binY16_bin36
276 prop_binY17_bin36
277 pdf55
278 prop_binY18_bin13
279 prop_binY16_bin38
280 pdf6
281 prop_binY18_bin39
282 pdf44
283 elRECOENDPTLOW
284 pdf25
285 pdf37
286 prop_binY18_bin38
287 pdf23
288 prop_binY18_bin0
289 prop_binY17_bin38
290 elfakesrw3b18
291 elHLTENDPTHIGH17
292 prop_binY17_bin32
293 pdf36
294 elIDENDPTLOW
295 pdf46
296 prop_binY17_bin39
297 elfakesrw3b16
298 elHLTENDPTLOW17
299 elIDBARPTLOW
300 prop_binY18_bin33
−2
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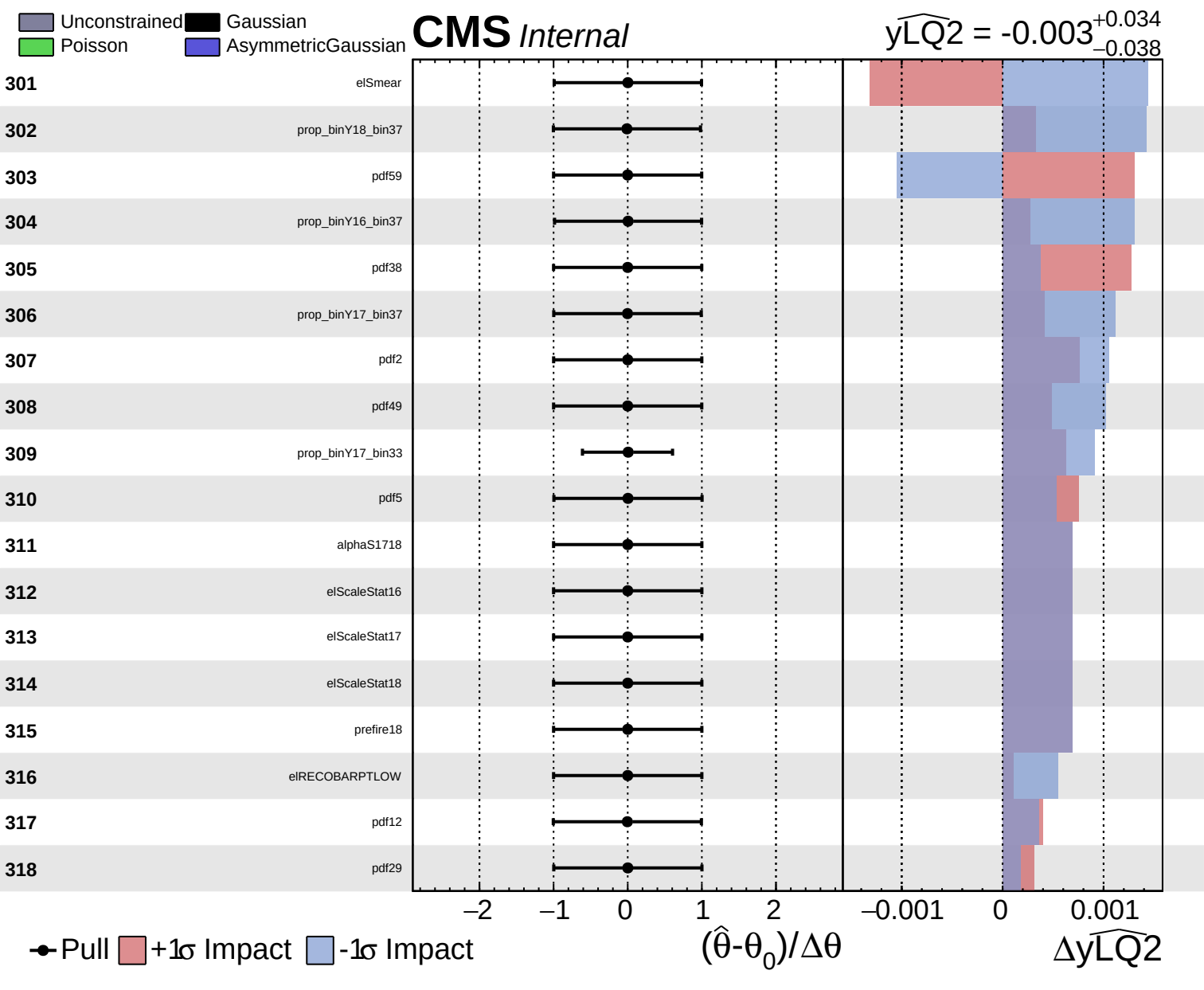
-1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2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305 pdf38
306 prop_binY17_bin37
307 pdf2
308 pdf49
309 prop_binY17_bin33
310 pdf5
311 alphaS1718
312 elScaleStat16
313 elScaleStat17
314 elScaleStat18
315 prefire18
316 elRECOBARPTLOW
317 pdf12
318 pdf29
−2 −1 0 1 2
−0.001 0 0.001
Pull
+1σ Impact
-1σ Impact
(θ̂-θ0)/Δθ
ΔyLQ2