Top-left plot:
- Y-axis: $x(s+\bar{s})/(\bar{u}+\bar{d})(x,Q^2)$
- X-axis: x
- $Q^2 = 1.9\ \mathrm{GeV}^2$
- ./rsFixed/output
- ./rsFree/output

Top-right plot:
- Y-axis: $xs/\bar{s}(x,Q^2)$
- X-axis: x
- $Q^2 = 1.9\ \mathrm{GeV}^2$
- ./rsFixed/output
- ./rsFree/output

Bottom-left plot:
- Y-axis: $xc(x,Q^2)$
- X-axis: x
- $Q^2 = 1.9\ \mathrm{GeV}^2$
- ./rsFixed/output
- ./rsFree/output

Bottom-right plot:
- Y-axis: $xb(x,Q^2)$
- X-axis: x
- $Q^2 = 1.9\ \mathrm{GeV}^2$
- ./rsFixed/output
- ./rsFree/output

Top-left panel:

$Q^2 = 1.9\ \mathrm{GeV}^2$

./rsFixed/output
./rsFree/output

$x\overline{U}(x,Q^2)$

x

Top-right panel:

$Q^2 = 1.9\ \mathrm{GeV}^2$

./rsFixed/output
./rsFree/output

$x\overline{D}(x,Q^2)$

x

Bottom-left panel:

$\times 10^3$

$Q^2 = 1.9\ \mathrm{GeV}^2$

./rsFixed/output
./rsFree/output

$xg/\Sigma(x,Q^2)$

x

Bottom-right panel:

$Q^2 = 1.9\ \mathrm{GeV}^2$

./rsFixed/output
./rsFree/output

$xd/u(x,Q^2)$

x

Top-left panel:

σ_{red}

$e^+p \rightarrow e^+X$ (NC), E_p = 820 GeV

- HERA1+2 Data Q^2 = 60
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

x

Top-right panel:

σ_{red}

$e^+p \rightarrow e^+X$ (NC), E_p = 820 GeV

- HERA1+2 Data Q^2 = 70
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

0.002

x

Bottom-left panel:

σ_{red}

$e^+p \rightarrow e^+X$ (NC), E_p = 820 GeV

- HERA1+2 Data Q^2 = 90
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

0.002

x

Bottom-right panel:

σ_{red}

$e^+p \rightarrow e^+X$ (NC), E_p = 820 GeV

- HERA1+2 Data Q^2 = 120
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

0.003

x

Top-left panel:

$pp \rightarrow Z$; $\sqrt{s} = 7$ TeV; $\int L = 4.7$ fb^{-1}

$d\sigma/dy$ [pb]

- ATLAS Data $116 < M_Z < 150$
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

y

Top-right panel:

$pp \rightarrow W^+$; $\sqrt{s} = 7$ TeV; $\int L = 4.7$ fb^{-1}

$d\sigma/dy$ [pb]

- ATLAS Data
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

y

Bottom-left panel:

$e^-p \rightarrow e^-X$ (NC)

σ_{red}

- HERA1+2 Data $Q^2 = 60$
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

x

Bottom-right panel:

$e^-p \rightarrow e^-X$ (NC)

σ_{red}

- HERA1+2 Data $Q^2 = 90$
- δ uncorrelated
- δ total
- Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

x

Top-left panel:

$e^-p \rightarrow \nu X$ (CC)

$d^2\sigma/dxdQ^2$

- HERA1+2 Data $Q^2 = 2000$
- δ uncorrelated
- δ total
- - - Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

x

Top-right panel:

$e^-p \rightarrow \nu X$ (CC)

$d^2\sigma/dxdQ^2$

- HERA1+2 Data $Q^2 = 3000$
- δ uncorrelated
- δ total
- - - Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

x

Bottom-left panel:

$e^-p \rightarrow \nu X$ (CC)

$d^2\sigma/dxdQ^2$

- HERA1+2 Data $Q^2 = 5000$
- δ uncorrelated
- δ total
- - - Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

x

Bottom-right panel:

$e^-p \rightarrow \nu X$ (CC)

$d^2\sigma/dxdQ^2$

- HERA1+2 Data $Q^2 = 8000$
- δ uncorrelated
- δ total
- - - Theory + shifts
- ./rsFixed/output
- ./rsFree/output

Theory/Data

x

	○ ./rsFixed/output
	□ ./rsFree/output

40 sysATLAS1032
39 sysATLAS1031
38 sysATLAS1030
37 sysATLAS1029
36 sysATLAS1028
35 sysATLAS1027
34 sysATLAS1026
33 sysATLAS1025
32 sysATLAS1024
31 sysATLAS1023
30 sysATLAS1022
29 sysATLAS1021
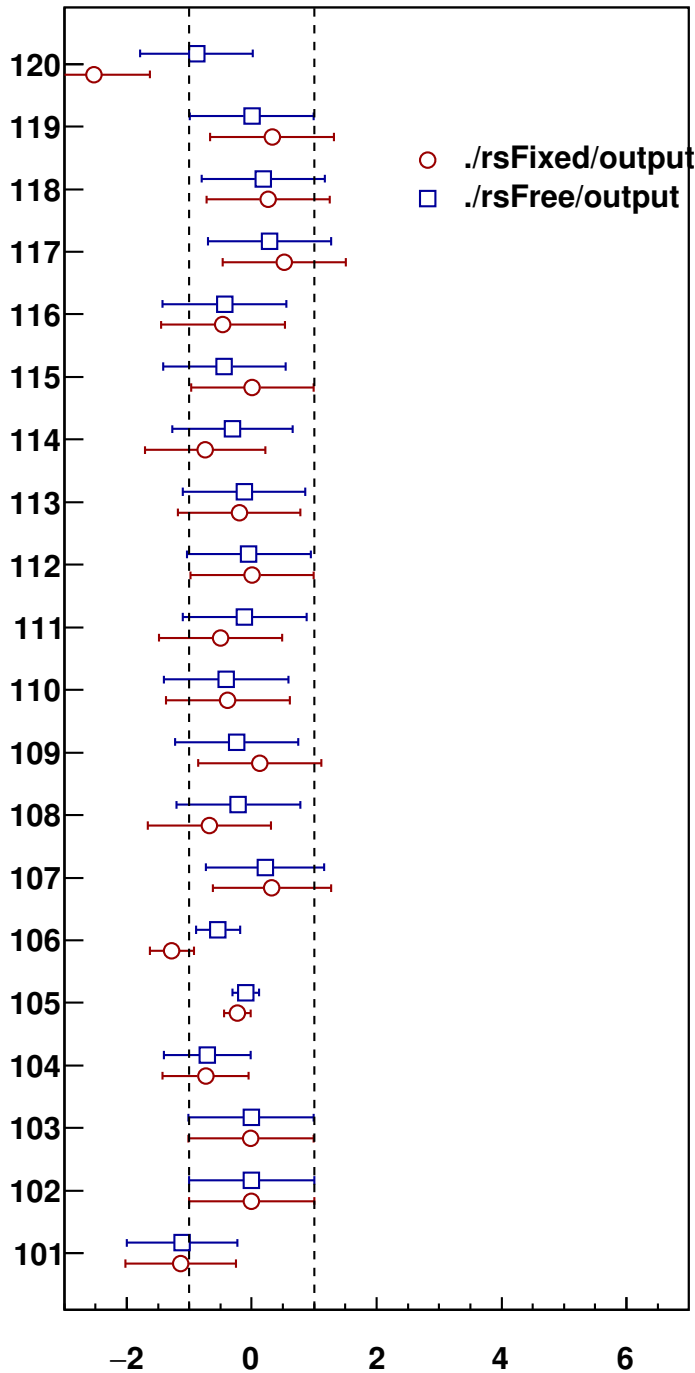28 sysATLAS1020
27 sysATLAS1019
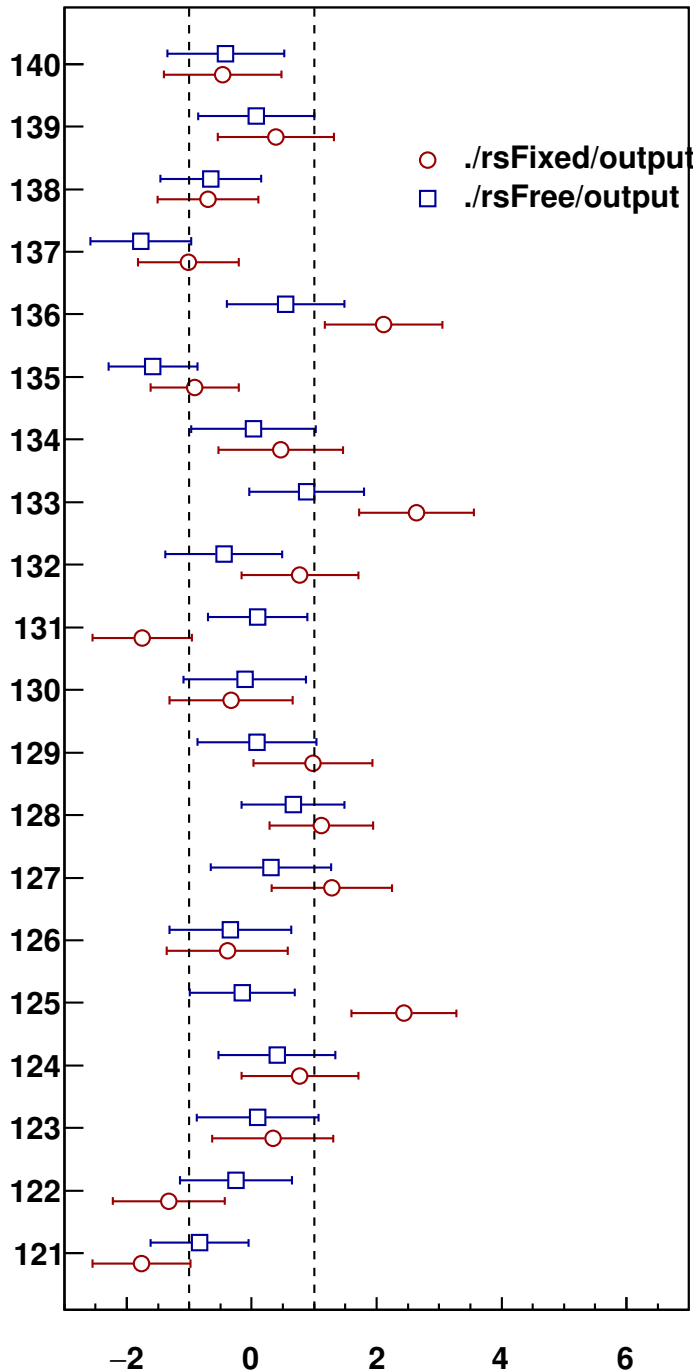26 sysATLAS1018
25 sysATLAS1017
24 sysATLAS1016
23 sysATLAS1015
22 sysATLAS1014
21 sysATLAS1013
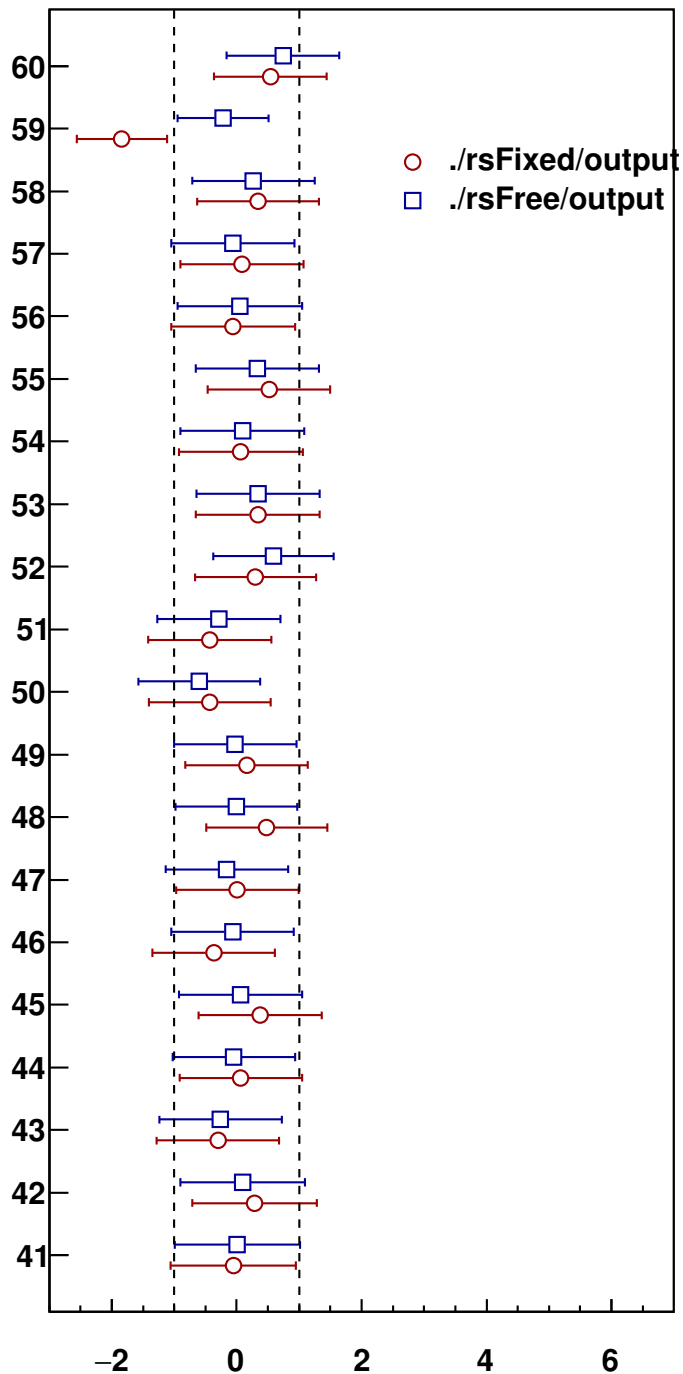
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58	sysATLAS1050
57	sysATLAS1049
56	sysATLAS1048
55	sysATLAS1047
54	sysATLAS1046
53	sysATLAS1045
52	sysATLAS1044
51	sysATLAS1043
50	sysATLAS1042
49	sysATLAS1041
48	sysATLAS1040
47	sysATLAS1039
46	sysATLAS1038
45	sysATLAS1037
44	sysATLAS1036
43	sysATLAS1035
42	sysATLAS1034
41	sysATLAS1033

Legend:
- ○ ./rsFixed/output
- □ ./rsFree/output
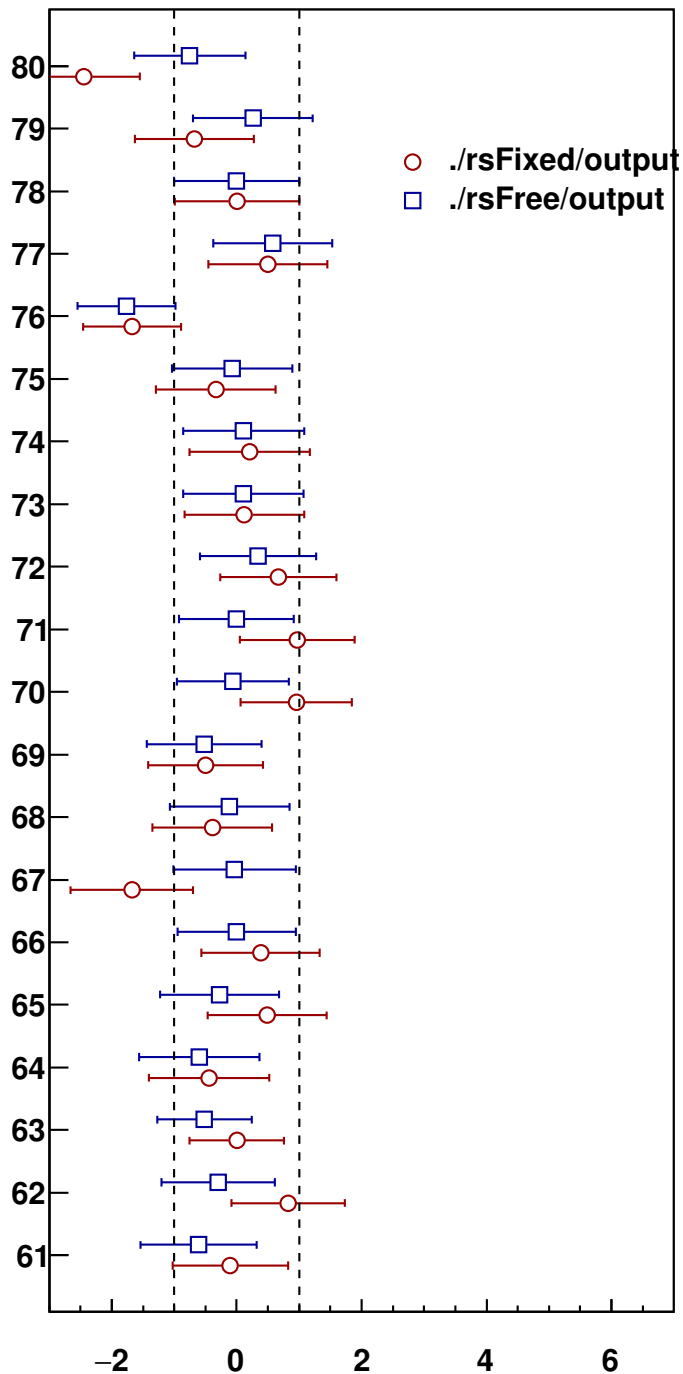
80	sysATLAS1072
79	sysATLAS1071
78	sysATLAS1070
77	sysATLAS1069
76	sysATLAS1068
75	sysATLAS1067
74	sysATLAS1066
73	sysATLAS1065
72	sysATLAS1064
71	sysATLAS1063
70	sysATLAS1062
69	sysATLAS1061
68	sysATLAS1060
67	sysATLAS1059
66	sysATLAS1058
65	sysATLAS1057
64	sysATLAS1056
63	sysATLAS1055
62	sysATLAS1054
61	sysATLAS1053

Legend:
- ○ ./rsFixed/output
- □ ./rsFree/output
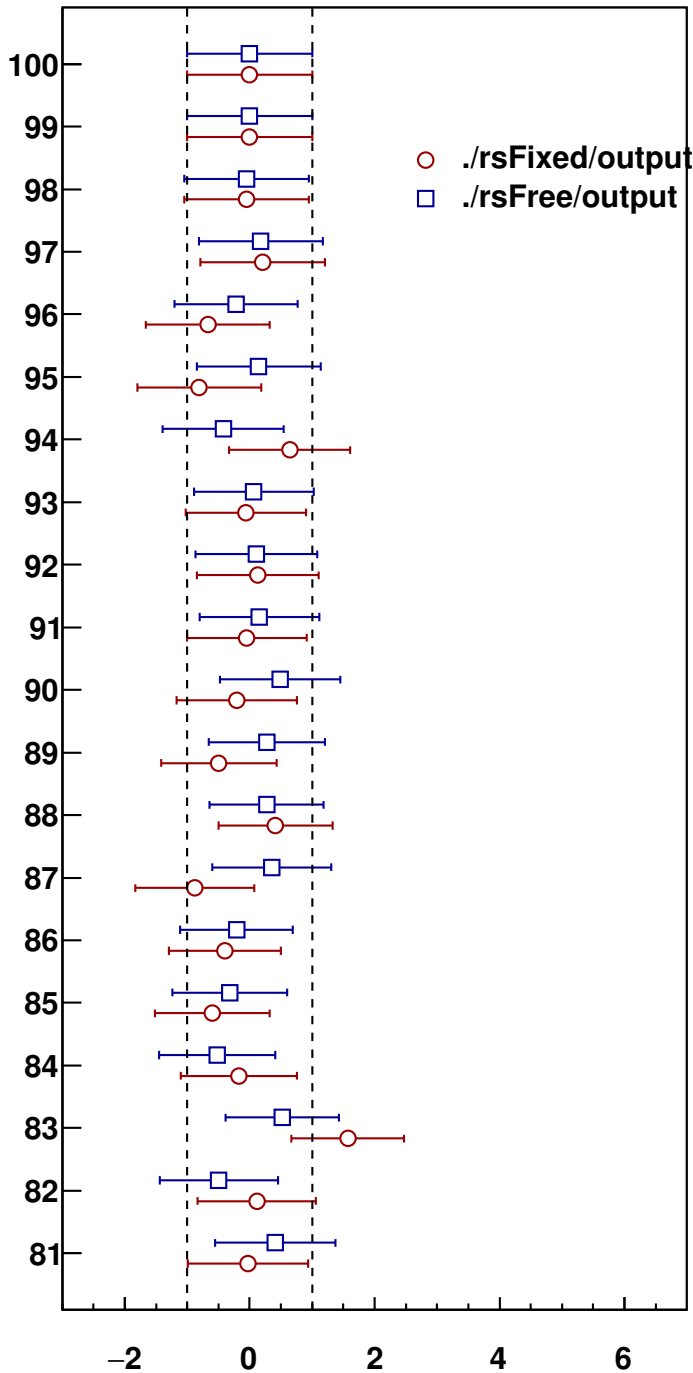
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99	sysATLAS1091
98	sysATLAS1090
97	sysATLAS1089
96	sysATLAS1088
95	sysATLAS1087
94	sysATLAS1086
93	sysATLAS1085
92	sysATLAS1084
91	sysATLAS1083
90	sysATLAS1082
89	sysATLAS1081
88	sysATLAS1080
87	sysATLAS1079
86	sysATLAS1078
85	sysATLAS1077
84	sysATLAS1076
83	sysATLAS1075
82	sysATLAS1074
81	sysATLAS1073

Legend:
- ○ ./rsFixed/output
- □ ./rsFree/output

120	sysATLAS1112
119	sysATLAS1111
118	sysATLAS1110
117	sysATLAS1109
116	sysATLAS1108
115	sysATLAS1107
114	sysATLAS1106
113	sysATLAS1105
112	sysATLAS1104
111	sysATLAS1103
110	sysATLAS1102
109	sysATLAS1101
108	sysATLAS1100
107	sysATLAS1099
106	sysATLAS1098
105	sysATLAS1097
104	sysATLAS1096
103	sysATLAS1095
102	sysATLAS1094
101	sysATLAS1093

./rsFixed/output
./rsFree/output

Legend:
- ○ ./rsFixed/output
- □ ./rsFree/output

140 sysHZComb1002
139 sysHZComb1001
138 sysATLAS1130
137 sysATLAS1129
136 sysATLAS1128
135 sysATLAS1127
134 sysATLAS1126
133 sysATLAS1125
132 sysATLAS1124
131 sysATLAS1123
130 sysATLAS1122
129 sysATLAS1121
128 sysATLAS1120
127 sysATLAS1119
126 sysATLAS1118
125 sysATLAS1117
124 sysATLAS1116
123 sysATLAS1115
122 sysATLAS1114
121 sysATLAS1113

./rsFixed/output
./rsFree/output
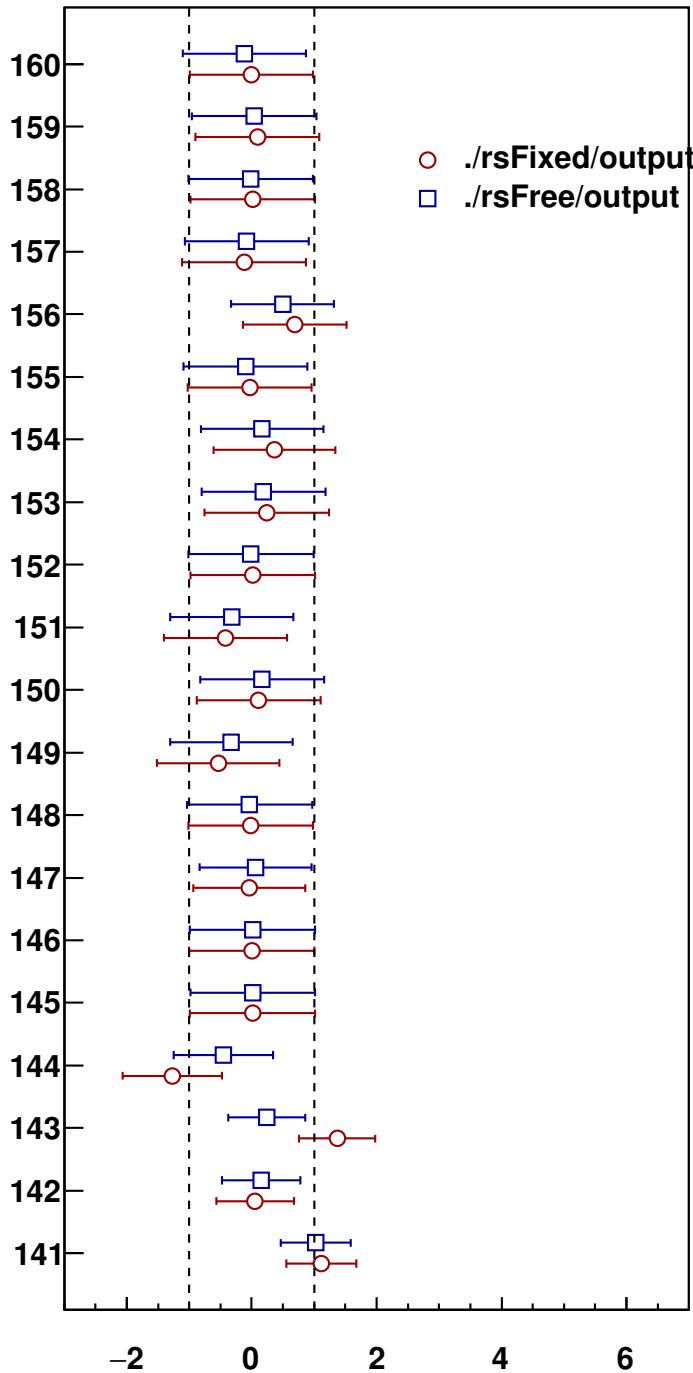
160 sysHZComb1022
159 sysHZComb1021
158 sysHZComb1020
157 sysHZComb1019
156 sysHZComb1018
155 sysHZComb1017
154 sysHZComb1016
153 sysHZComb1015
152 sysHZComb1014
151 sysHZComb1013
150 sysHZComb1012
149 sysHZComb1011
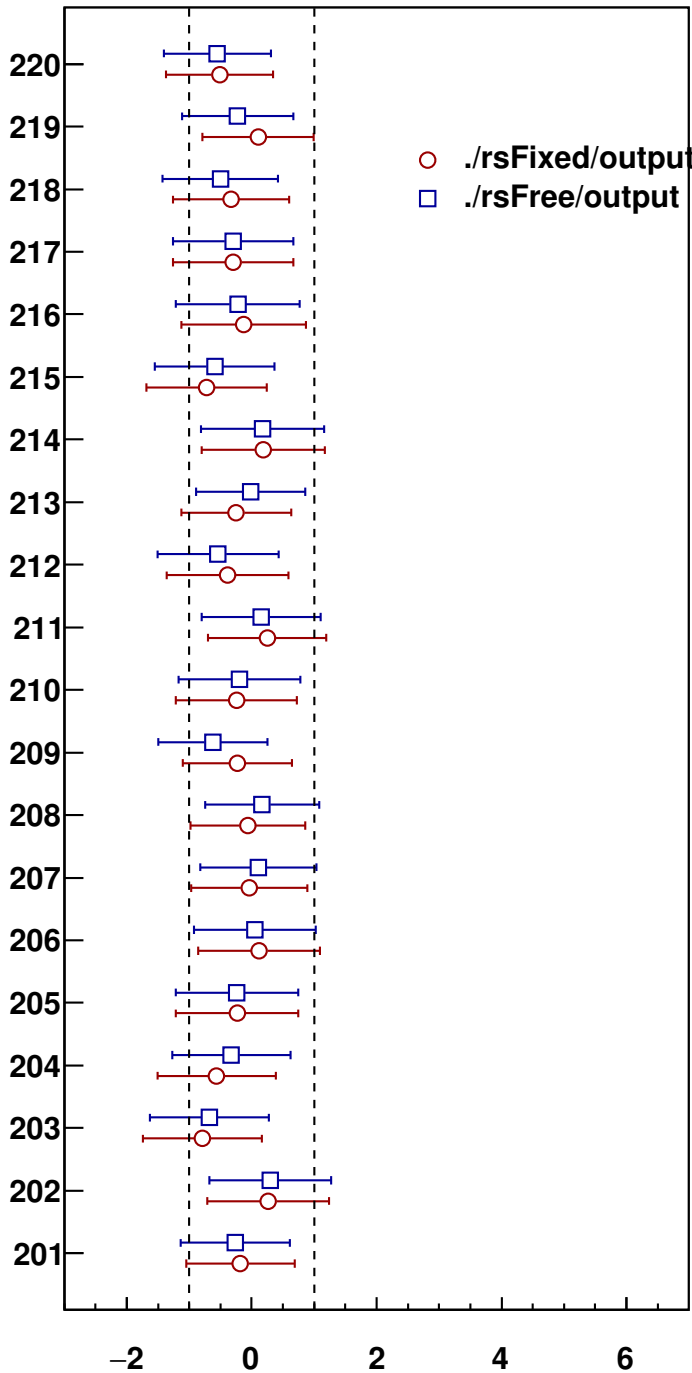148 sysHZComb1010
147 sysHZComb1009
146 sysHZComb1008
145 sysHZComb1007
144 sysHZComb1006
143 sysHZComb1005
142 sysHZComb1004
141 sysHZComb1003

Legend:
- ○ ./rsFixed/output
- □ ./rsFree/output
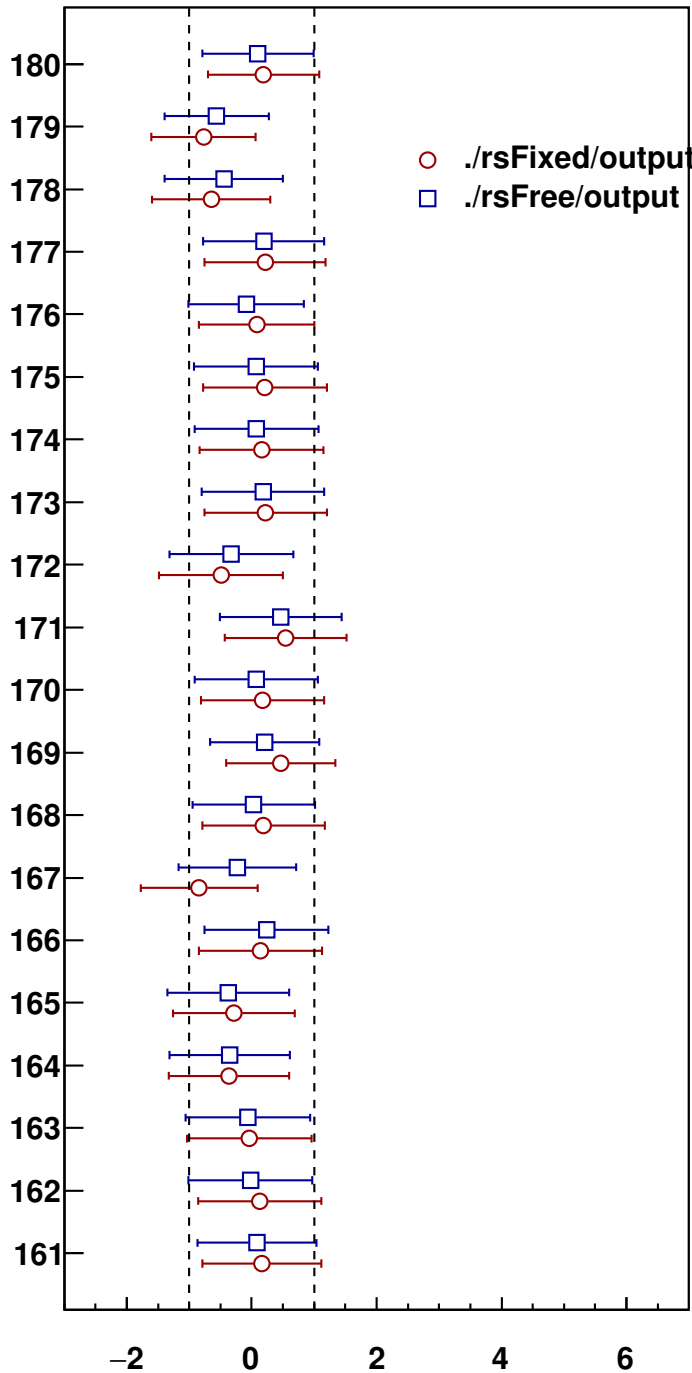
Index	Label
180	sysHZComb1042
179	sysHZComb1041
178	sysHZComb1040
177	sysHZComb1039
176	sysHZComb1038
175	sysHZComb1037
174	sysHZComb1036
173	sysHZComb1035
172	sysHZComb1034
171	sysHZComb1033
170	sysHZComb1032
169	sysHZComb1031
168	sysHZComb1030
167	sysHZComb1029
166	sysHZComb1028
165	sysHZComb1027
164	sysHZComb1026
163	sysHZComb1025
162	sysHZComb1024
161	sysHZComb1023
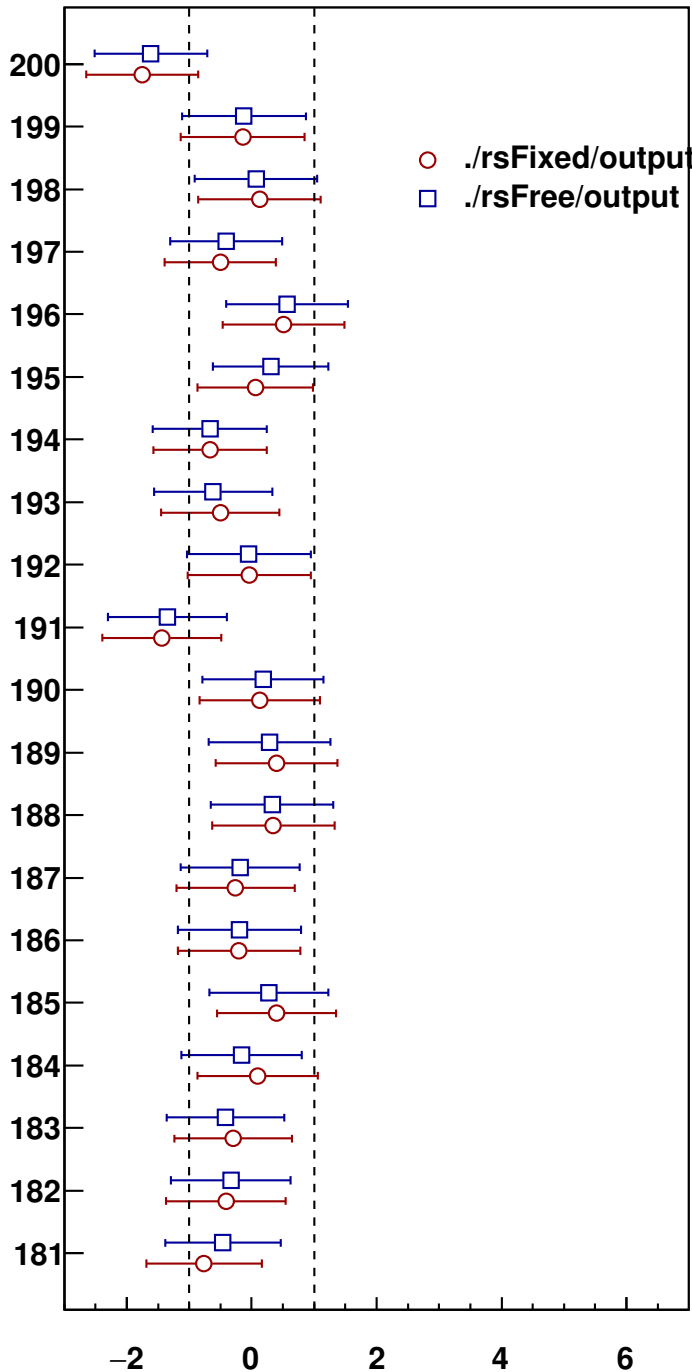
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199	sysHZComb1061
198	sysHZComb1060
197	sysHZComb1059
196	sysHZComb1058
195	sysHZComb1057
194	sysHZComb1056
193	sysHZComb1055
192	sysHZComb1054
191	sysHZComb1053
190	sysHZComb1052
189	sysHZComb1051
188	sysHZComb1050
187	sysHZComb1049
186	sysHZComb1048
185	sysHZComb1047
184	sysHZComb1046
183	sysHZComb1045
182	sysHZComb1044
181	sysHZComb1043

./rsFixed/output
./rsFree/output

220	sysHZComb1082
219	sysHZComb1081
218	sysHZComb1080
217	sysHZComb1079
216	sysHZComb1078
215	sysHZComb1077
214	sysHZComb1076
213	sysHZComb1075
212	sysHZComb1074
211	sysHZComb1073
210	sysHZComb1072
209	sysHZComb1071
208	sysHZComb1070
207	sysHZComb1069
206	sysHZComb1068
205	sysHZComb1067
204	sysHZComb1066
203	sysHZComb1065
202	sysHZComb1064
201	sysHZComb1063

Legend:
- ○ ./rsFixed/output
- □ ./rsFree/output
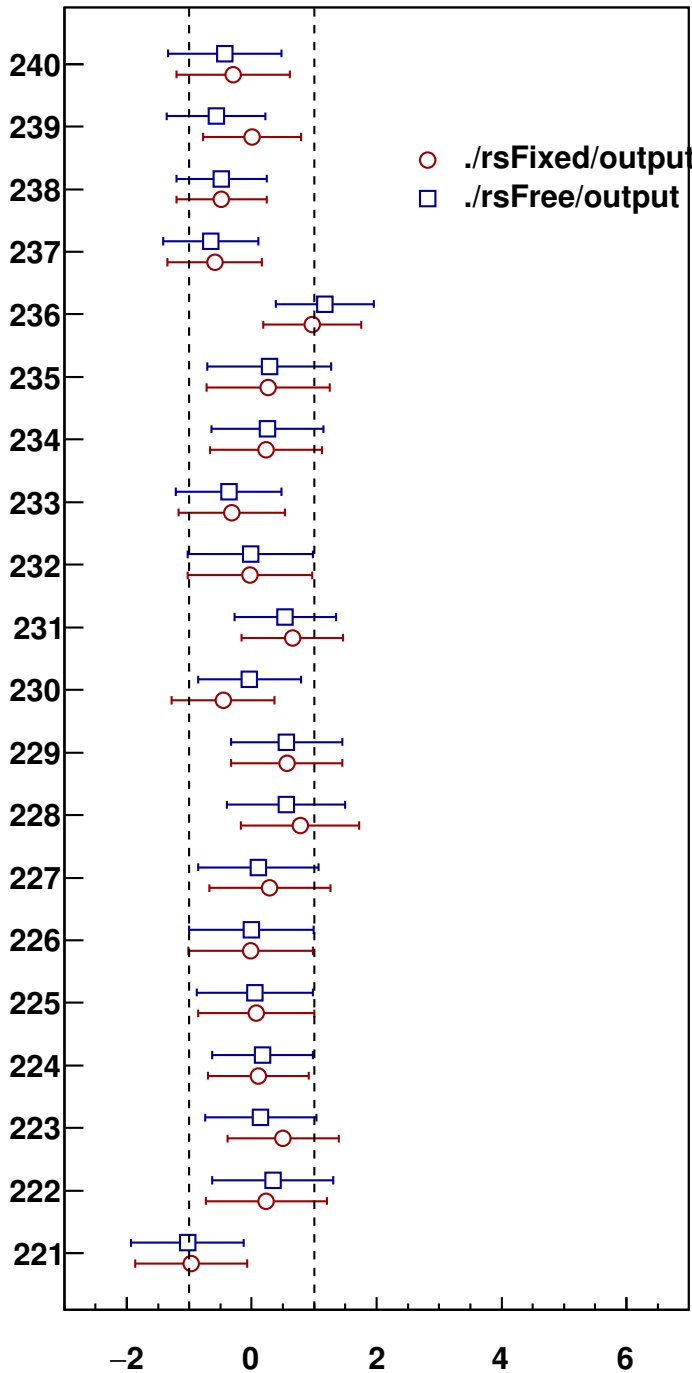
240 sysHZComb1102

239 sysHZComb1101

238 sysHZComb1100

237 sysHZComb1099

236 sysHZComb1098

235 sysHZComb1097

234 sysHZComb1096

233 sysHZComb1095

232 sysHZComb1094

231 sysHZComb1093

230 sysHZComb1092

229 sysHZComb1091

228 sysHZComb1090
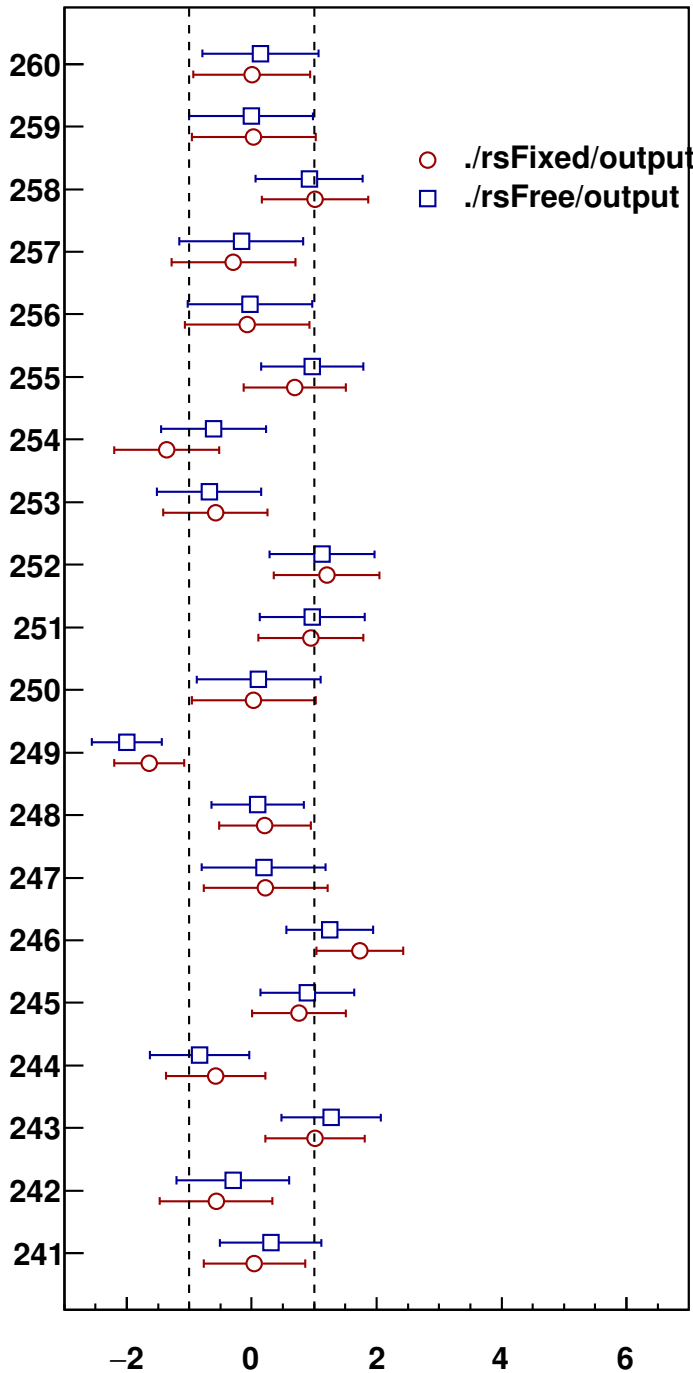
227 sysHZComb1089

226 sysHZComb1088

225 sysHZComb1087

224 sysHZComb1086

223 sysHZComb1085

222 sysHZComb1084

221 sysHZComb1083

○ ./rsFixed/output
□ ./rsFree/output

○	./rsFixed/output
□	./rsFree/output

260 sysHZComb1122
259 sysHZComb1121
258 sysHZComb1120
257 sysHZComb1119
256 sysHZComb1118
255 sysHZComb1117
254 sysHZComb1116
253 sysHZComb1115
252 sysHZComb1114
251 sysHZComb1113
250 sysHZComb1112
249 sysHZComb1111
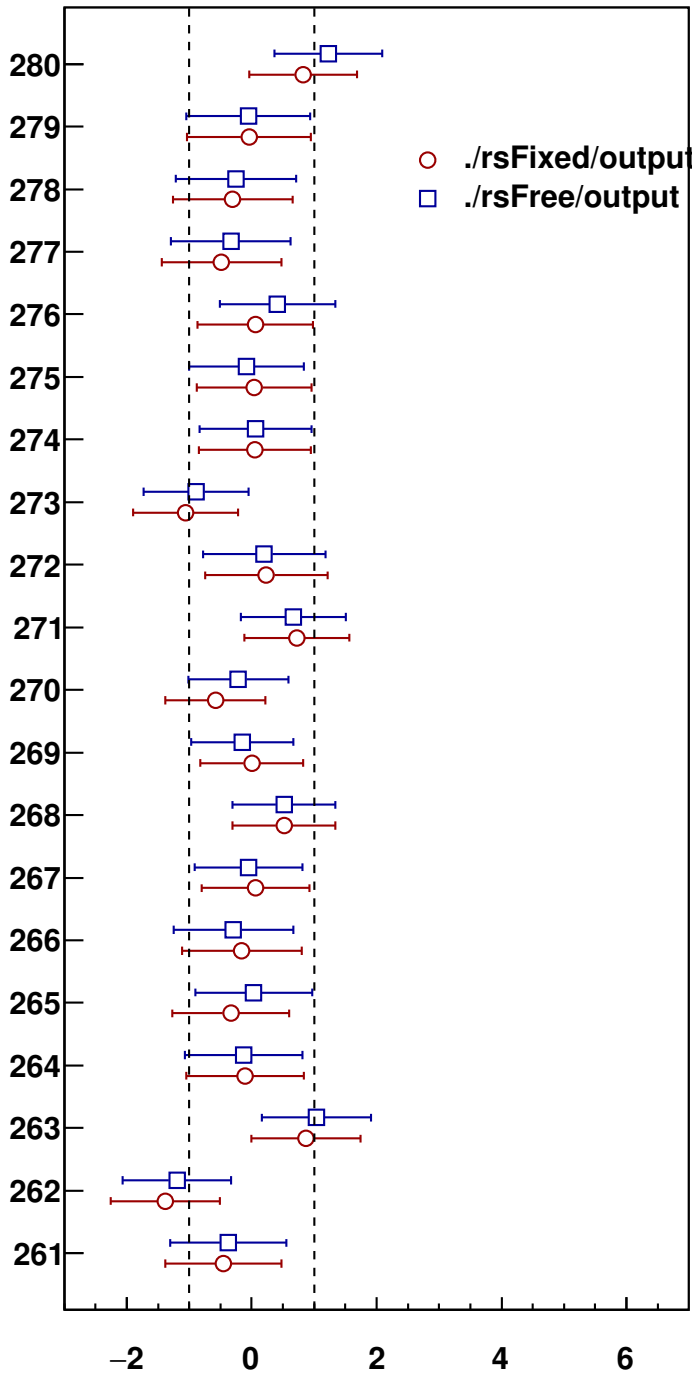248 sysHZComb1110
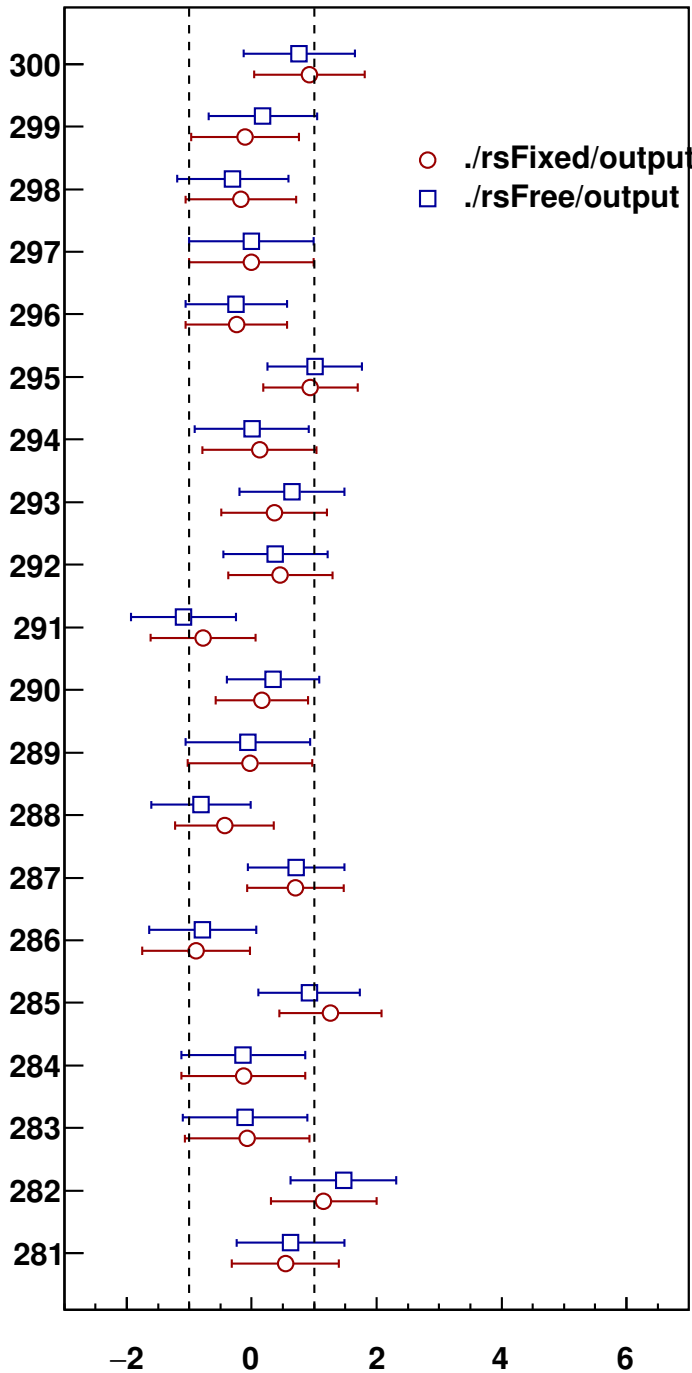247 sysHZComb1109
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245 sysHZComb1107
244 sysHZComb1106
243 sysHZComb1105
242 sysHZComb1104
241 sysHZComb1103

280	sysHZComb1142
279	sysHZComb1141
278	sysHZComb1140
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276	sysHZComb1138
275	sysHZComb1137
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273	sysHZComb1135
272	sysHZComb1134
271	sysHZComb1133
270	sysHZComb1132
269	sysHZComb1131
268	sysHZComb1130
267	sysHZComb1129
266	sysHZComb1128
265	sysHZComb1127
264	sysHZComb1126
263	sysHZComb1125
262	sysHZComb1124
261	sysHZComb1123

Legend:
- ○ ./rsFixed/output
- □ ./rsFree/output

300	sysHZComb1162
299	sysHZComb1161
298	sysHZComb1160
297	sysHZComb1159
296	sysHZComb1158
295	sysHZComb1157
294	sysHZComb1156
293	sysHZComb1155
292	sysHZComb1154
291	sysHZComb1153
290	sysHZComb1152
289	sysHZComb1151
288	sysHZComb1150
287	sysHZComb1149
286	sysHZComb1148
285	sysHZComb1147
284	sysHZComb1146
283	sysHZComb1145
282	sysHZComb1144
281	sysHZComb1143

Legend:
○ ./rsFixed/output
□ ./rsFree/output

Dataset	. rsFixed output SAVE	. rsFree output SAVE
HERA1+2 NCep 820	61 / 61	54 / 61
HERA1+2 NCep 460	195 / 177	195 / 177
HERA1+2 CCep	45 / 39	45 / 39
ATLAS high mass CF Z rapidity 2011	4.4 / 6	4.1 / 6
ATLAS high mass CC Z rapidity 2011	9.7 / 6	7.1 / 6
ATLAS W+ lepton rapidity 2011	13 / 11	12 / 11
HERA1+2 NCem	230 / 159	222 / 159
HERA1+2 CCem	56 / 42	61 / 42
HERA1+2 NCep 575	186 / 221	187 / 221
ATLAS W- lepton rapidity 2011	19 / 11	8.9 / 11
HERA1+2 NCep 920	368 / 317	353 / 317
ATLAS peak CF Z rapidity 2011	9.9 / 9	7.3 / 9
ATLAS peak CC Z rapidity 2011	50 / 12	15 / 12
Correlated χ^2	152	73
Log penalty χ^2	-2.55	-14.43
Total χ^2 / dof	1397 / 1057	1230 / 1056
χ^2 p-value	0.00	0.00

Parameter	. rsFixed output SAVE	. rsFree output SAVE
'Adbar'	0.1561 ± 0.0090	0.1483 ± 0.0090
'Adv'	1.0000	1.0000
'Ag'	1.0000	1.0000
'Agp'	0.489 ± 0.055	0.373 ± 0.055
'Auv'	1.0000	1.0000
'Bdbar'	-0.1379 ± 0.0095	-0.1231 ± 0.0095
'Bdv'	0.841 ± 0.045	0.891 ± 0.045
'Bg'	-0.502 ± 0.081	-0.492 ± 0.081
'Bgp'	-0.555 ± 0.054	-0.571 ± 0.054
'Buv'	0.771 ± 0.014	0.786 ± 0.014
'Cdbar'	6.9 ± 1.6	11.7 ± 1.6
'Cdv'	4.26 ± 0.26	4.25 ± 0.26
'Cg'	3.63 ± 0.60	3.31 ± 0.60
'Cgp'	25.00	25.00
'Cstr'	6.18 ± 0.82	7.31 ± 0.82
'Cubar'	5.68 ± 0.47	5.44 ± 0.47
'Cuv'	4.889 ± 0.074	4.804 ± 0.074
'Euv'	11.79 ± 0.84	9.83 ± 0.84
'rs'	0.5000	1.10 ± 0.15
Fit status	not-a-fit	not-a-fit
Uncertainties	not-a-fit	not-a-fit