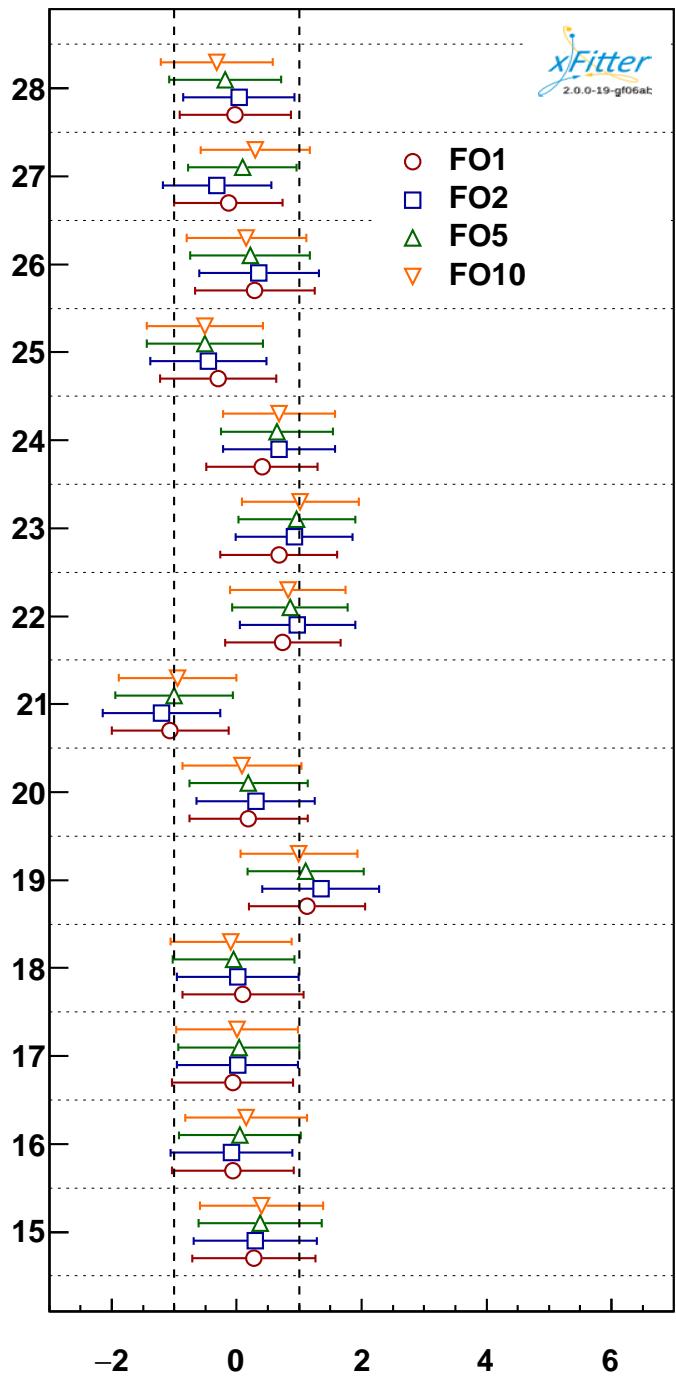
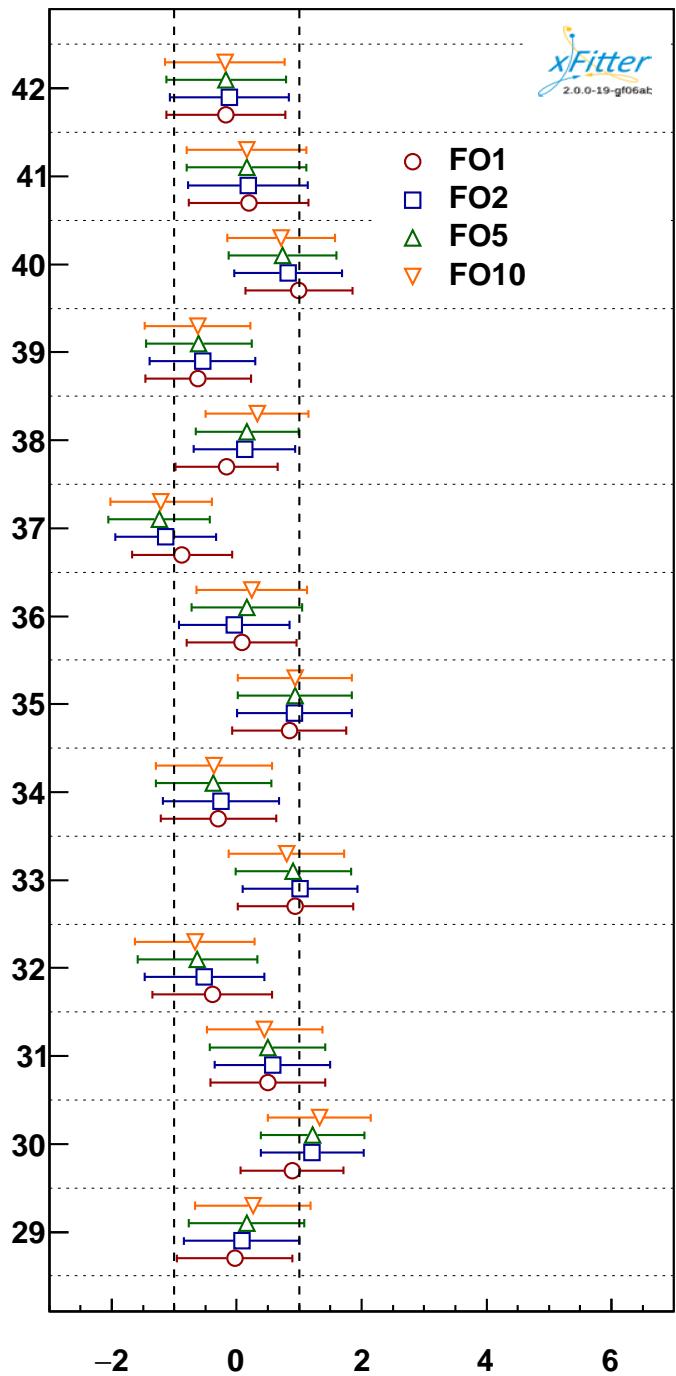


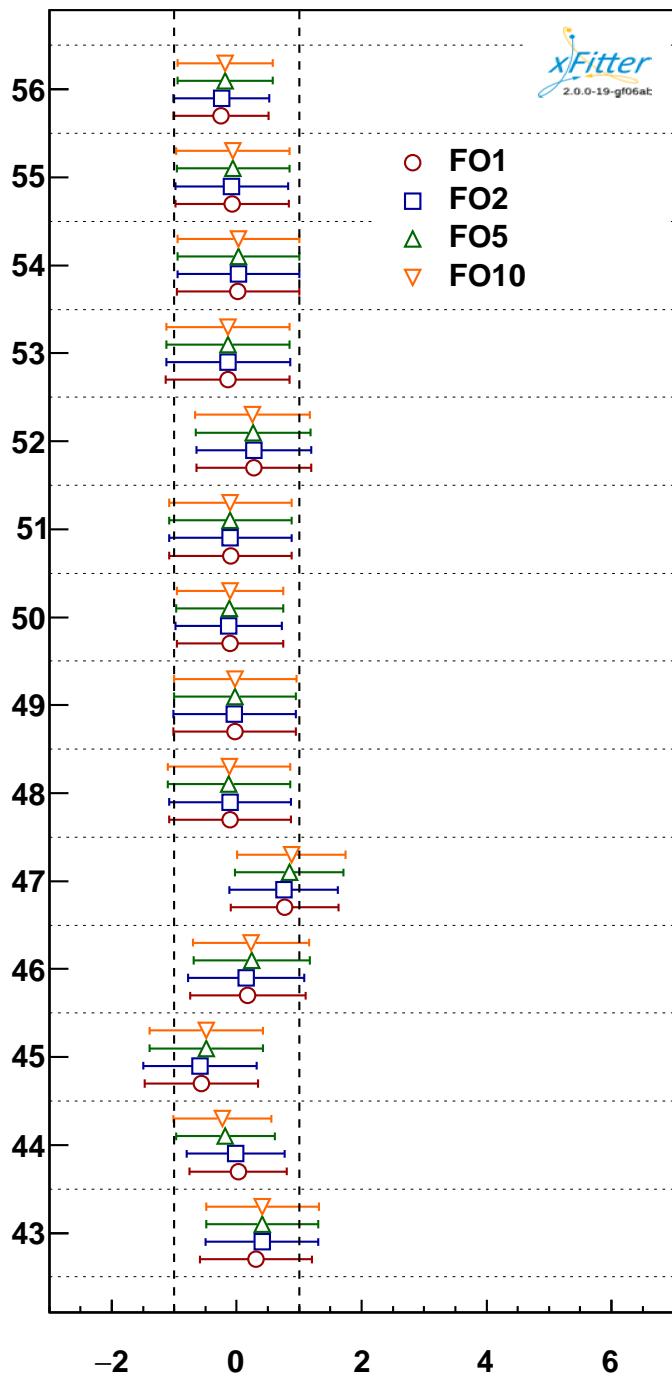
- 14 HERA_Charm_Source_09
13 HERA_Charm_Source_08
12 HERA_Charm_Source_07
11 HERA_Charm_Source_06
10 HERA_Charm_Source_05
9 HERA_Charm_Source_04
8 HERA_Charm_Source_03
7 HERA_Charm_Source_02
6 HERA_Charm_Source_01
5 HERA_Charm_Proced_02
4 HERA_Charm_Proced_01
3 CST
2 BFDp
1 BFD0



- 28 HERA_Charm_Source_23
27 HERA_Charm_Source_22
26 HERA_Charm_Source_21
25 HERA_Charm_Source_20
24 HERA_Charm_Source_19
23 HERA_Charm_Source_18
22 HERA_Charm_Source_17
21 HERA_Charm_Source_16
20 HERA_Charm_Source_15
19 HERA_Charm_Source_14
18 HERA_Charm_Source_13
17 HERA_Charm_Source_12
16 HERA_Charm_Source_11
15 HERA_Charm_Source_10



- 42 HERA_Charm_Source_37
- 41 HERA_Charm_Source_36
- 40 HERA_Charm_Source_35
- 39 HERA_Charm_Source_34
- 38 HERA_Charm_Source_33
- 37 HERA_Charm_Source_32
- 36 HERA_Charm_Source_31
- 35 HERA_Charm_Source_30
- 34 HERA_Charm_Source_29
- 33 HERA_Charm_Source_28
- 32 HERA_Charm_Source_27
- 31 HERA_Charm_Source_26
- 30 HERA_Charm_Source_25
- 29 HERA_Charm_Source_24



56 mulB

55 hadE

54 gp

53 fragc

52 fragb

51 etac

50 etab

49 dF2

48 cjc

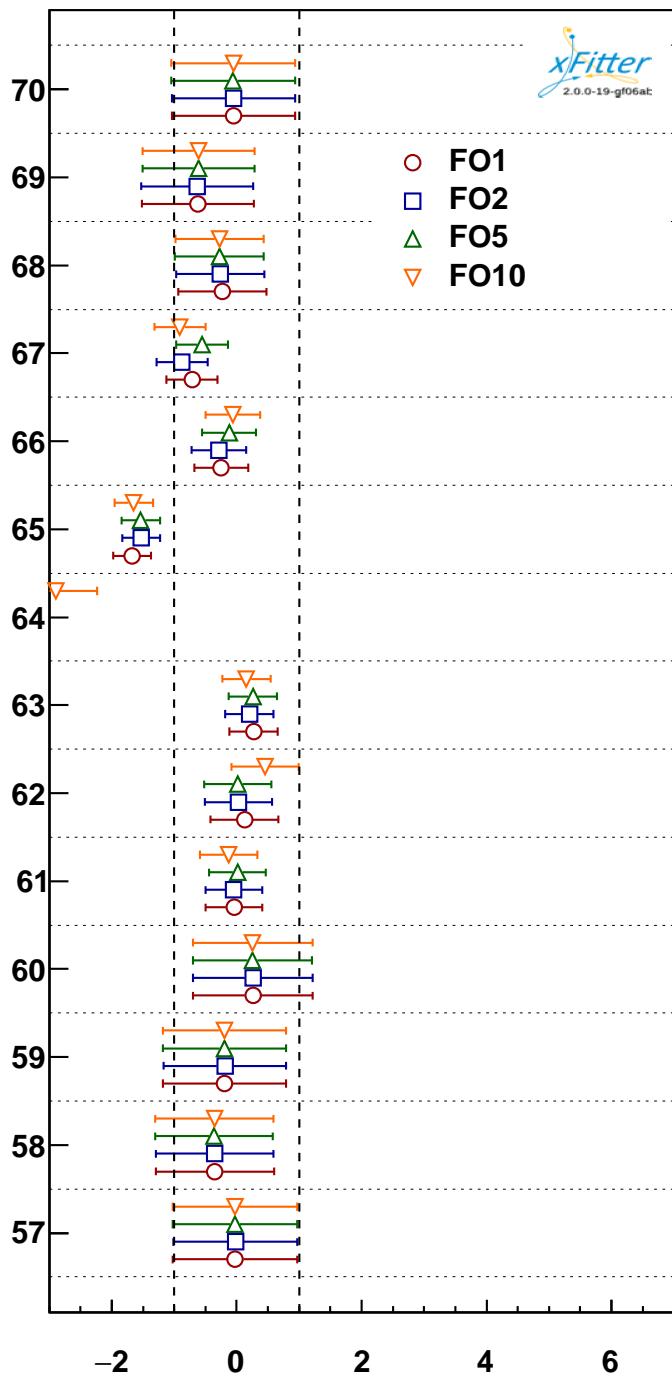
47 HERA_Chang_Source_42

46 HERA_Chang_Source_41

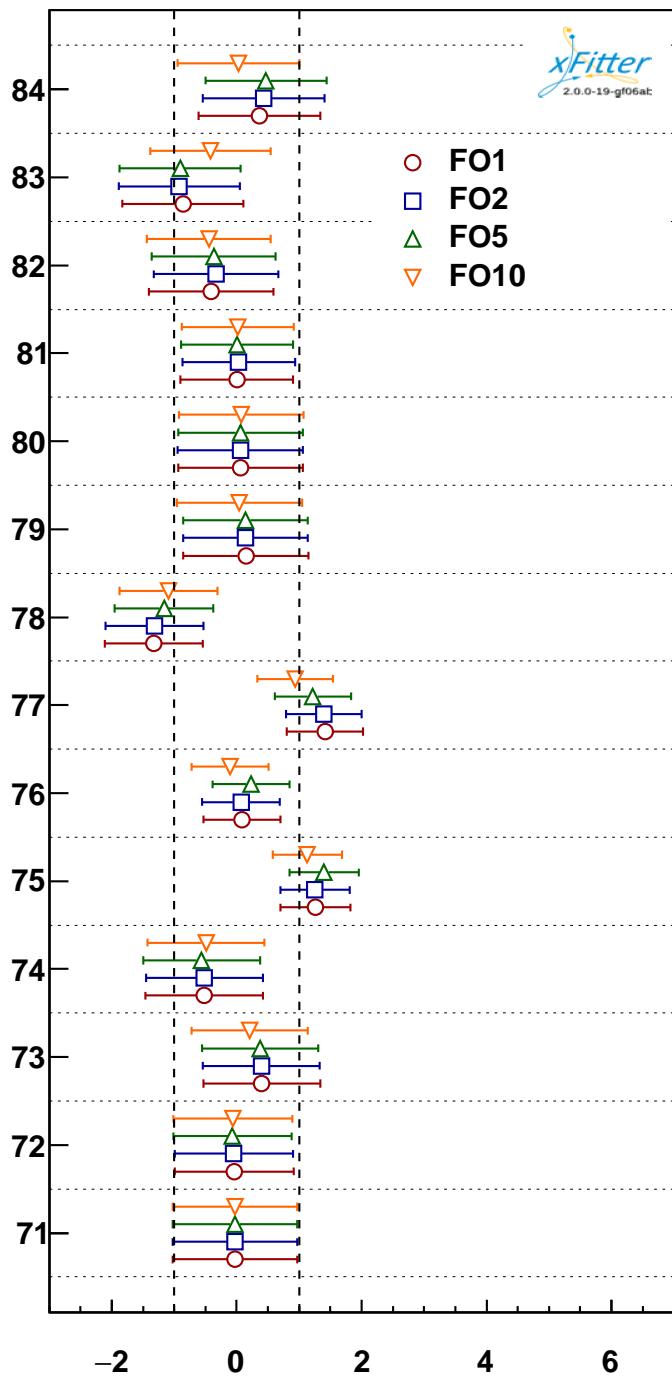
45 HERA_Chang_Source_40

44 HERA_Chang_Source_39

43 HERA_Chang_Source_38



70 q2b
69 ptc
68 ptb
67 proc_tb24
66 proc_tb23
65 proc_tb22
64 proc_tb21
63 proc_nrl
62 proc_had
61 proc_gp
60 phiq
59 mulDs
58 mulDp
57 mulD0



84 sysHZComb1012

83 sysHZComb1011

82 sysHZComb1010

81 sysHZComb1009

80 sysHZComb1008

79 sysHZComb1007

78 sysHZComb1006

77 sysHZComb1005

76 sysHZComb1004

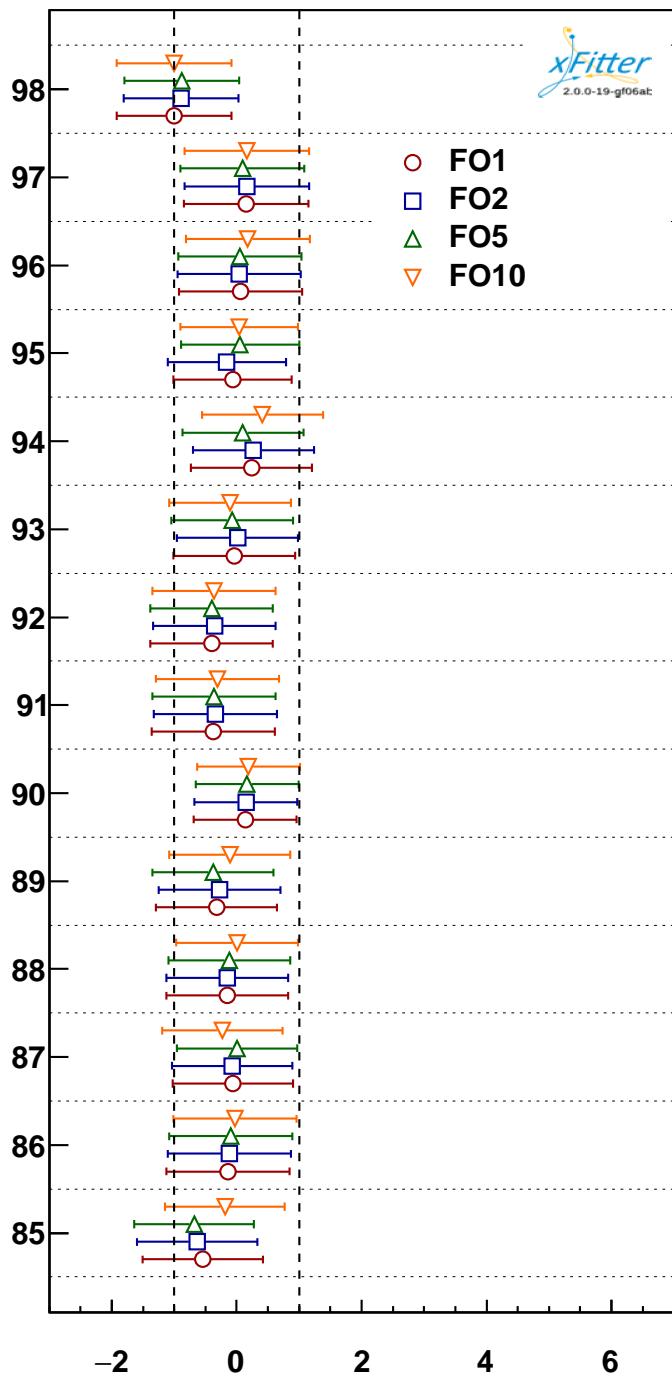
75 sysHZComb1003

74 sysHZComb1002

73 sysHZComb1001

72 res

71 q2c



98 sysHZComb1026

97 sysHZComb1025

96 sysHZComb1024

95 sysHZComb1023

94 sysHZComb1022

93 sysHZComb1021

92 sysHZComb1020

91 sysHZComb1019

90 sysHZComb1018

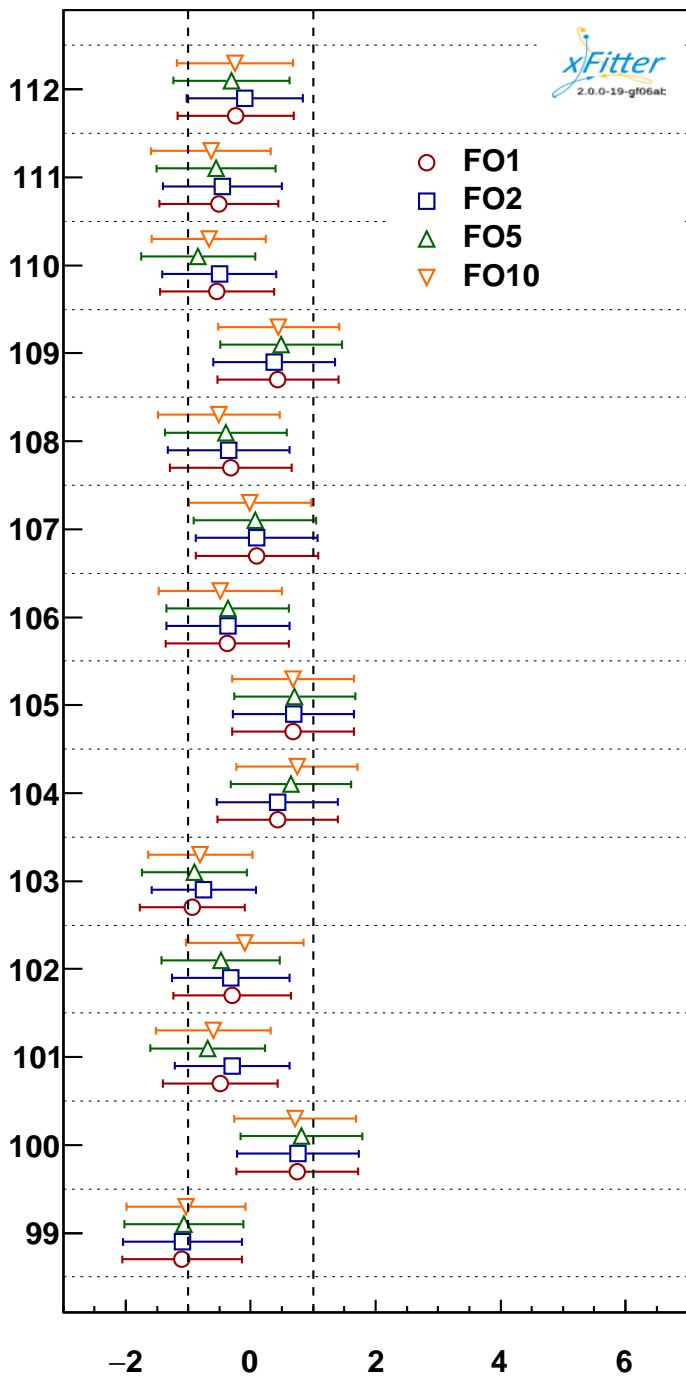
89 sysHZComb1017

88 sysHZComb1016

87 sysHZComb1015

86 sysHZComb1014

85 sysHZComb1013



112 sysHZComb1040

111 sysHZComb1039

110 sysHZComb1038

109 sysHZComb1037

108 sysHZComb1036

107 sysHZComb1035

106 sysHZComb1034

105 sysHZComb1033

104 sysHZComb1032

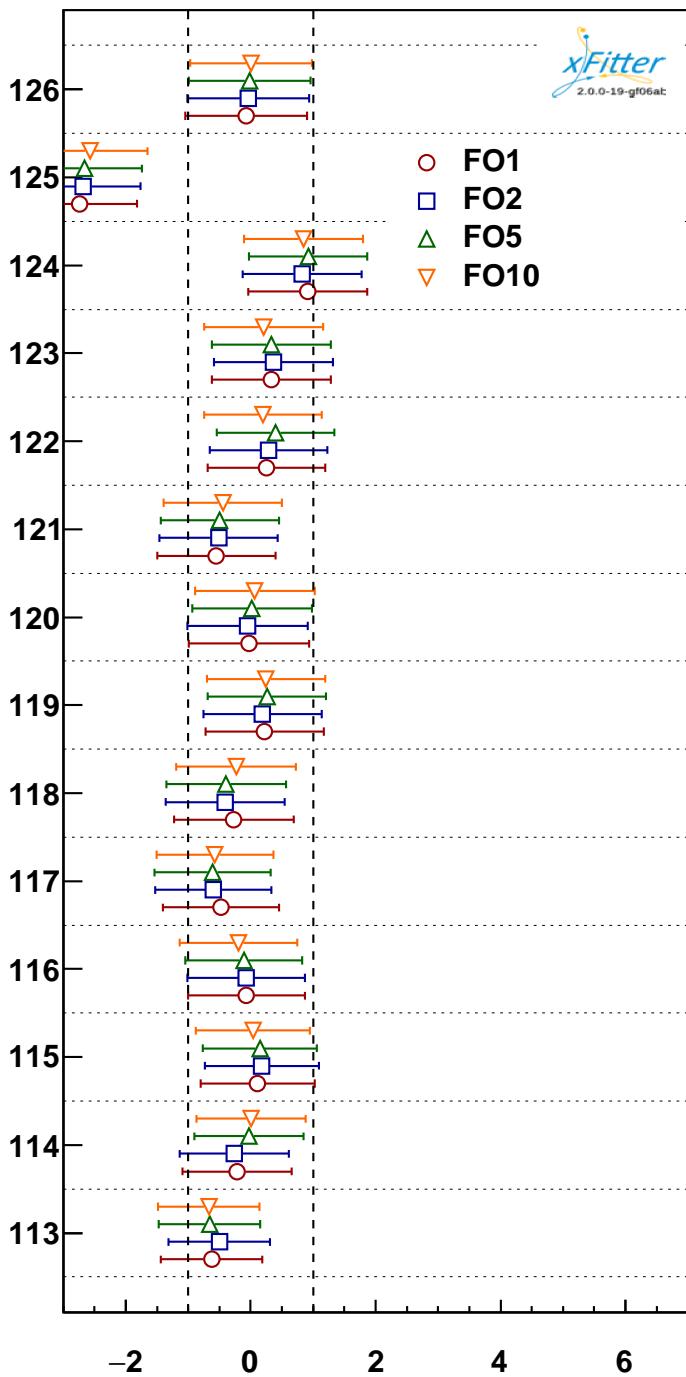
103 sysHZComb1031

102 sysHZComb1030

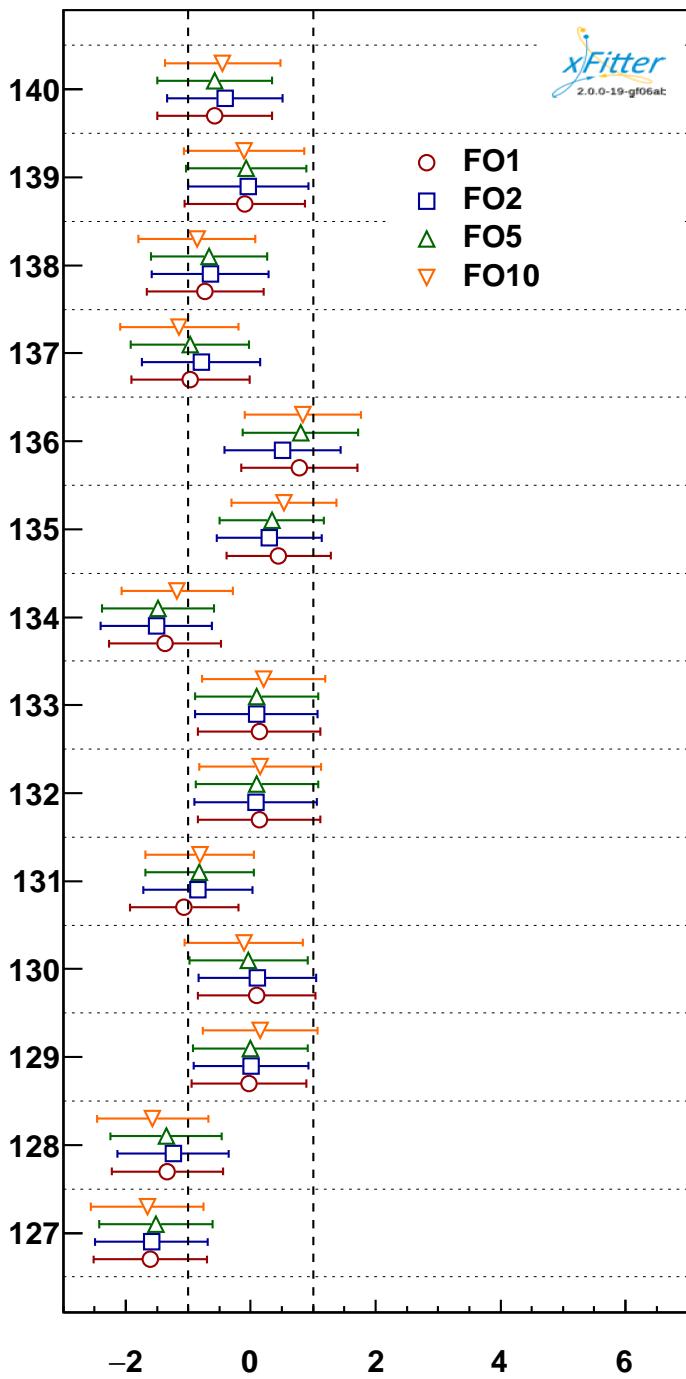
101 sysHZComb1029

100 sysHZComb1028

99 sysHZComb1027



126 sysHZComb1054
125 sysHZComb1053
124 sysHZComb1052
123 sysHZComb1051
122 sysHZComb1050
121 sysHZComb1049
120 sysHZComb1048
119 sysHZComb1047
118 sysHZComb1046
117 sysHZComb1045
116 sysHZComb1044
115 sysHZComb1043
114 sysHZComb1042
113 sysHZComb1041



*x*Fitter
2.0.0-19-gf06a;

140 sysHZComb1068

139 sysHZComb1067

138 sysHZComb1066

137 sysHZComb1065

136 sysHZComb1064

135 sysHZComb1063

134 sysHZComb1062

133 sysHZComb1061

132 sysHZComb1060

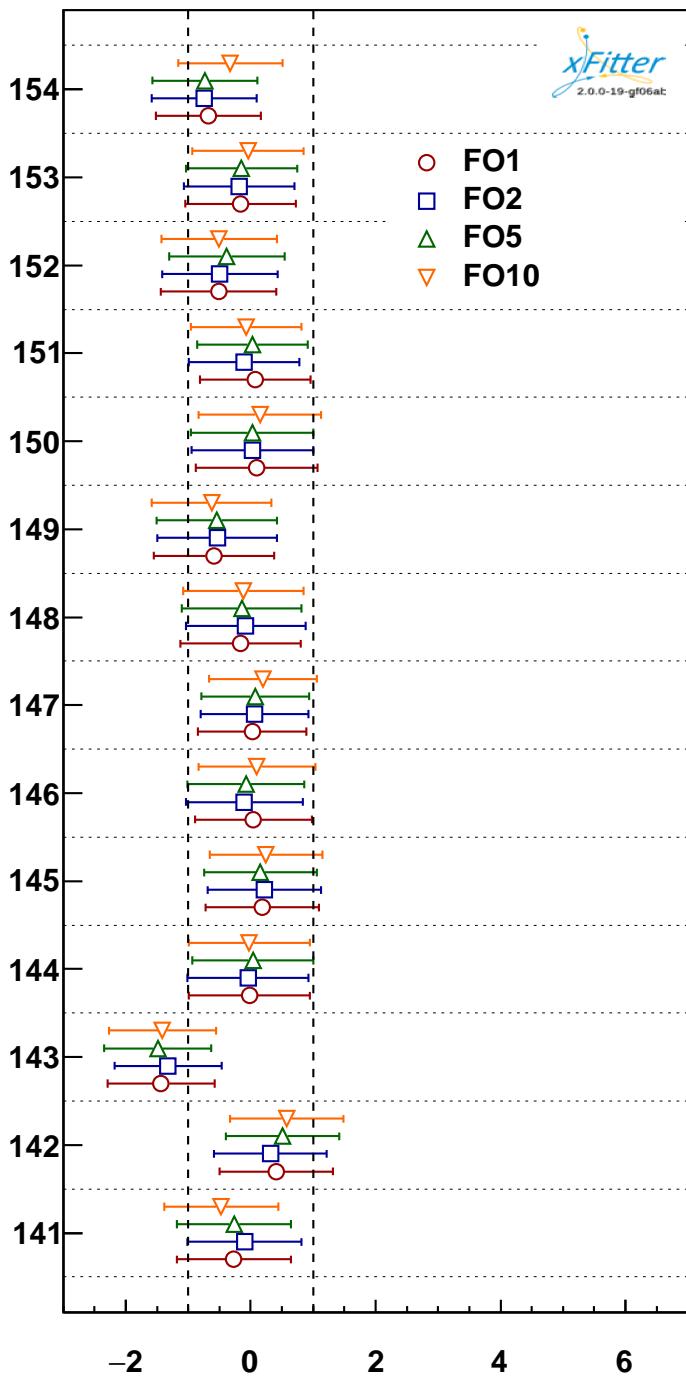
131 sysHZComb1059

130 sysHZComb1058

129 sysHZComb1057

128 sysHZComb1056

127 sysHZComb1055



154 sysHZComb1082

153 sysHZComb1081

152 sysHZComb1080

151 sysHZComb1079

150 sysHZComb1078

149 sysHZComb1077

148 sysHZComb1076

147 sysHZComb1075

146 sysHZComb1074

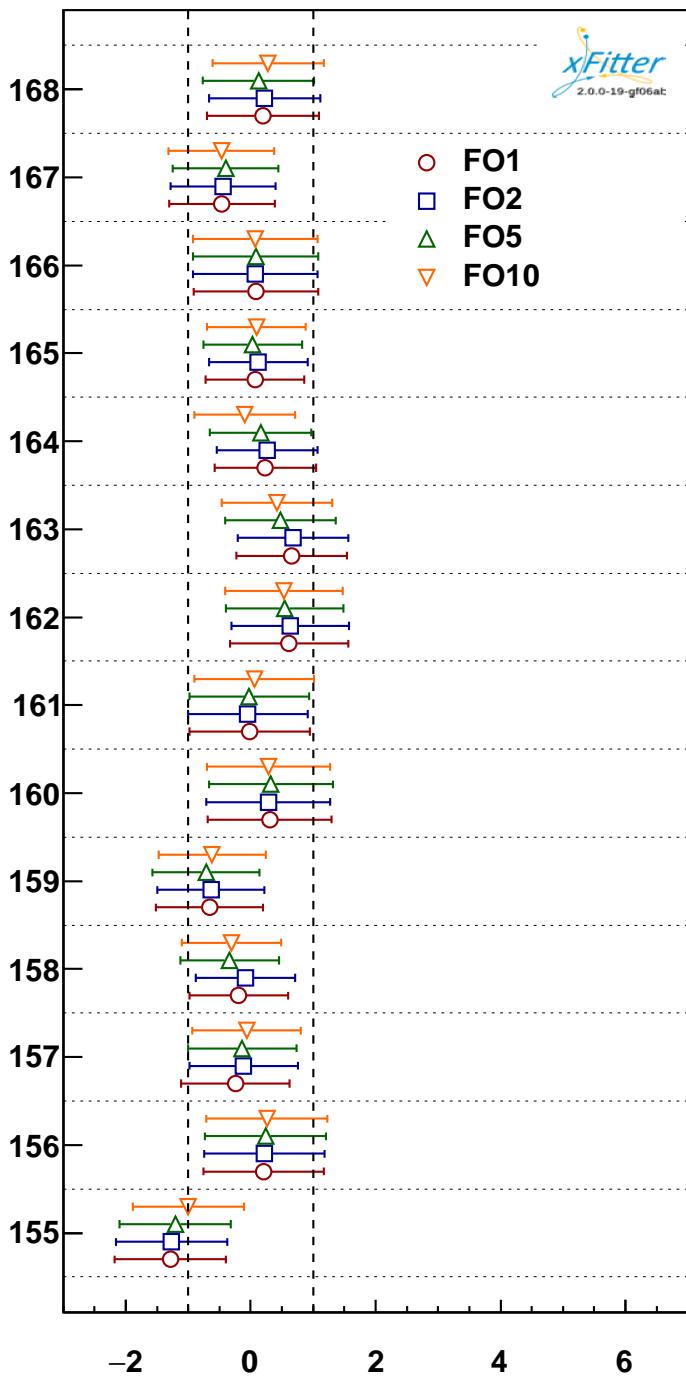
145 sysHZComb1073

144 sysHZComb1072

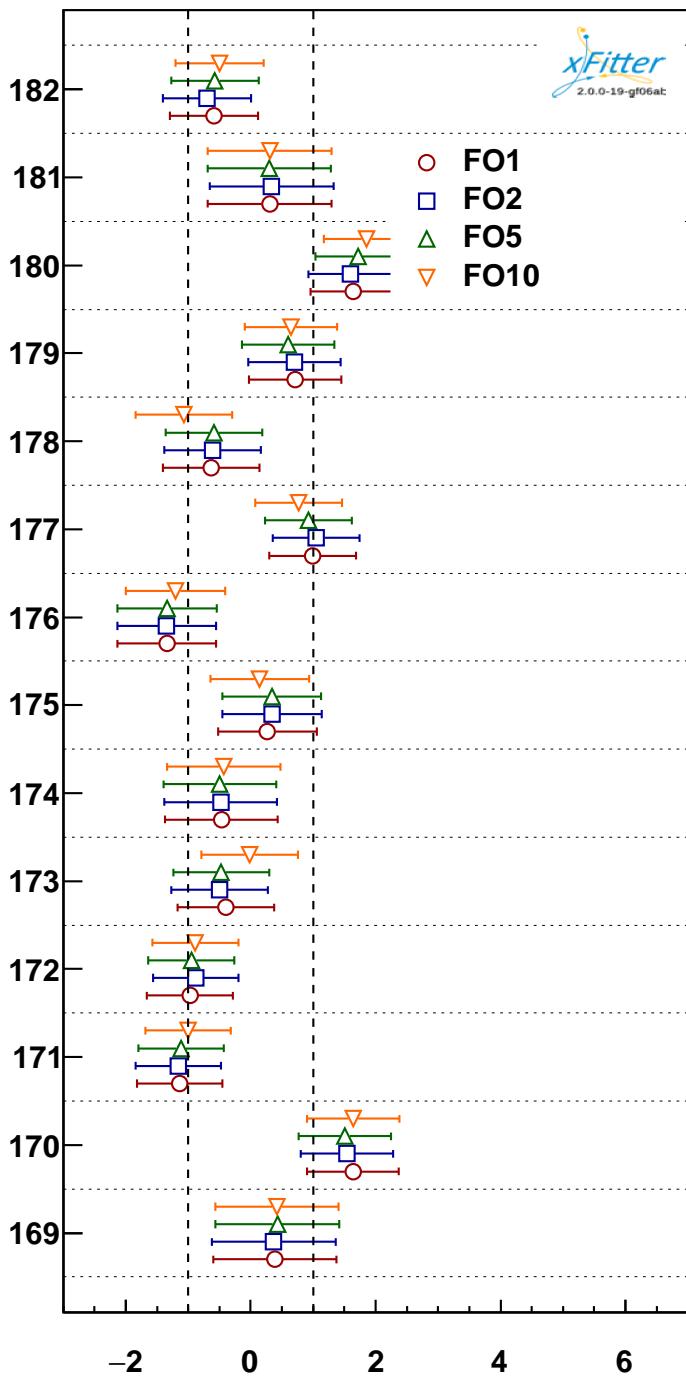
143 sysHZComb1071

142 sysHZComb1070

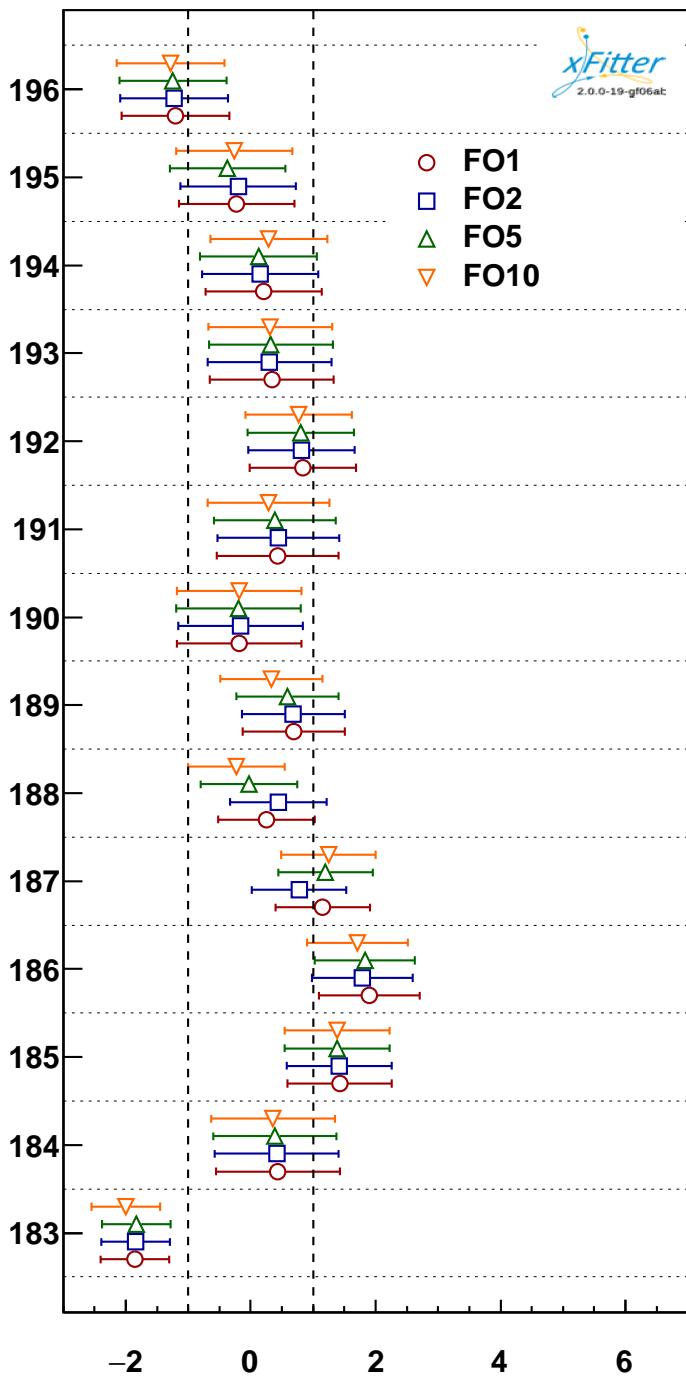
141 sysHZComb1069



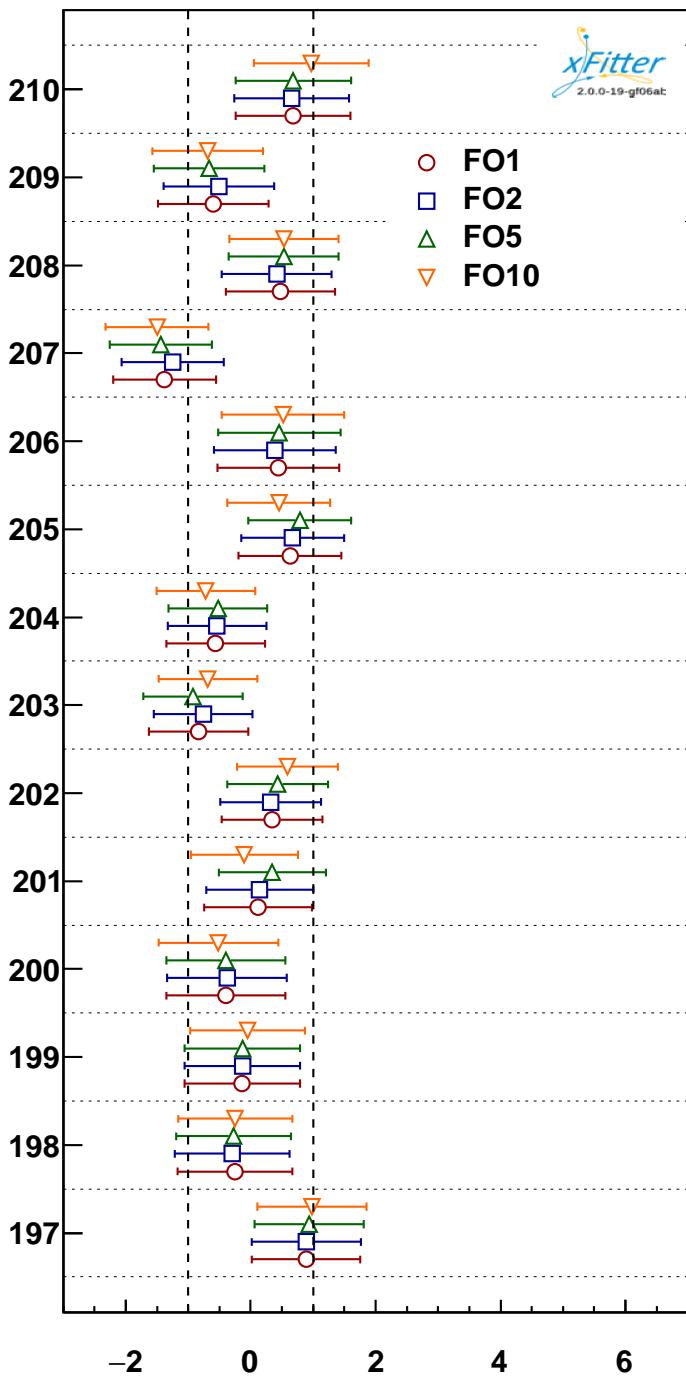
- 168 sysHZComb1096
167 sysHZComb1095
166 sysHZComb1094
165 sysHZComb1093
164 sysHZComb1092
163 sysHZComb1091
162 sysHZComb1090
161 sysHZComb1089
160 sysHZComb1088
159 sysHZComb1087
158 sysHZComb1086
157 sysHZComb1085
156 sysHZComb1084
155 sysHZComb1083



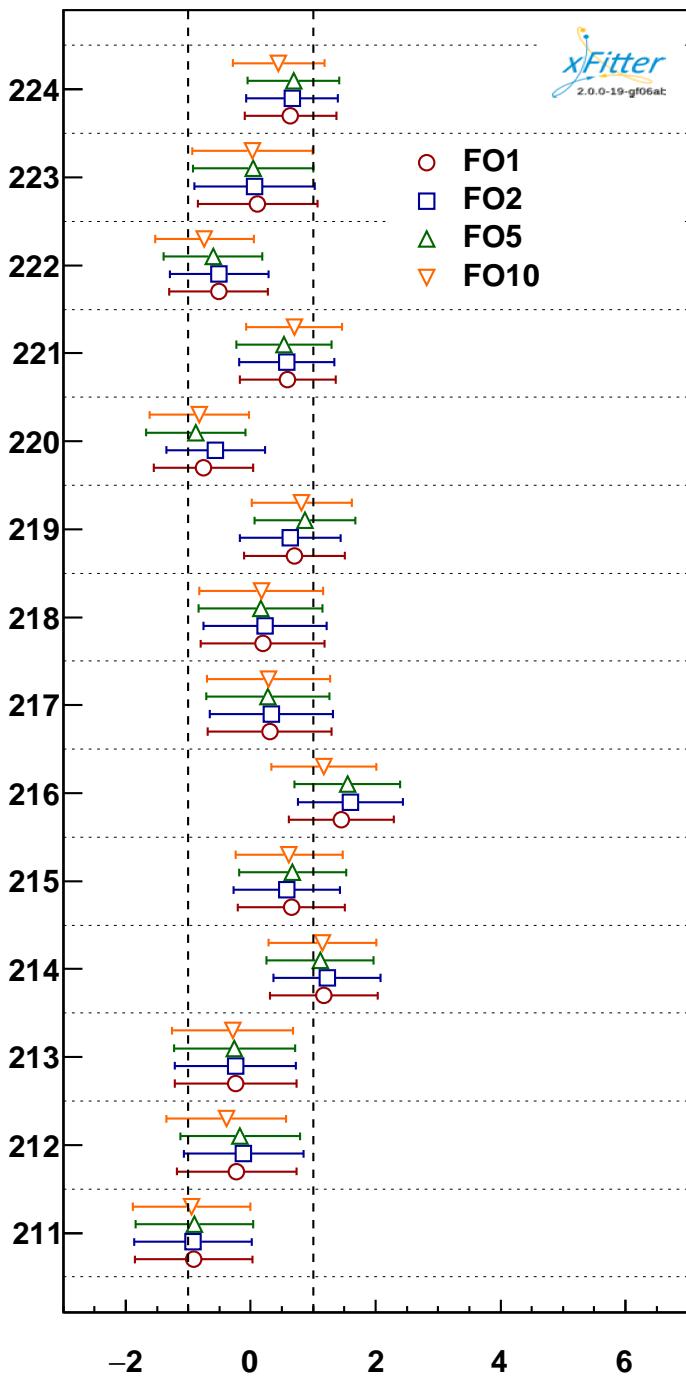
182 sysHZComb1110
181 sysHZComb1109
180 sysHZComb1108
179 sysHZComb1107
178 sysHZComb1106
177 sysHZComb1105
176 sysHZComb1104
175 sysHZComb1103
174 sysHZComb1102
173 sysHZComb1101
172 sysHZComb1100
171 sysHZComb1099
170 sysHZComb1098
169 sysHZComb1097



- 196 sysHZComb1124
- 195 sysHZComb1123
- 194 sysHZComb1122
- 193 sysHZComb1121
- 192 sysHZComb1120
- 191 sysHZComb1119
- 190 sysHZComb1118
- 189 sysHZComb1117
- 188 sysHZComb1116
- 187 sysHZComb1115
- 186 sysHZComb1114
- 185 sysHZComb1113
- 184 sysHZComb1112
- 183 sysHZComb1111



- 210 sysHZComb1138
- 209 sysHZComb1137
- 208 sysHZComb1136
- 207 sysHZComb1135
- 206 sysHZComb1134
- 205 sysHZComb1133
- 204 sysHZComb1132
- 203 sysHZComb1131
- 202 sysHZComb1130
- 201 sysHZComb1129
- 200 sysHZComb1128
- 199 sysHZComb1127
- 198 sysHZComb1126
- 197 sysHZComb1125



224 sysHZComb1152

223 sysHZComb1151

222 sysHZComb1150

221 sysHZComb1149

220 sysHZComb1148

219 sysHZComb1147

218 sysHZComb1146

217 sysHZComb1145

216 sysHZComb1144

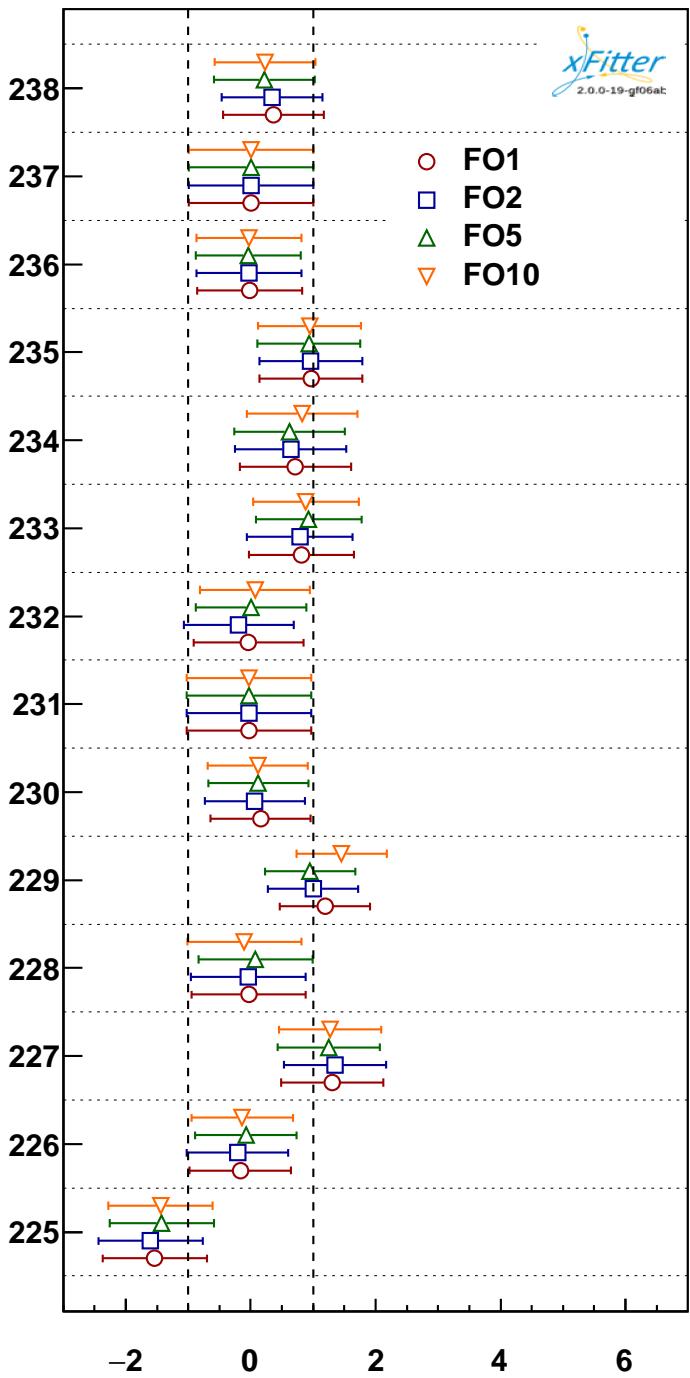
215 sysHZComb1143

214 sysHZComb1142

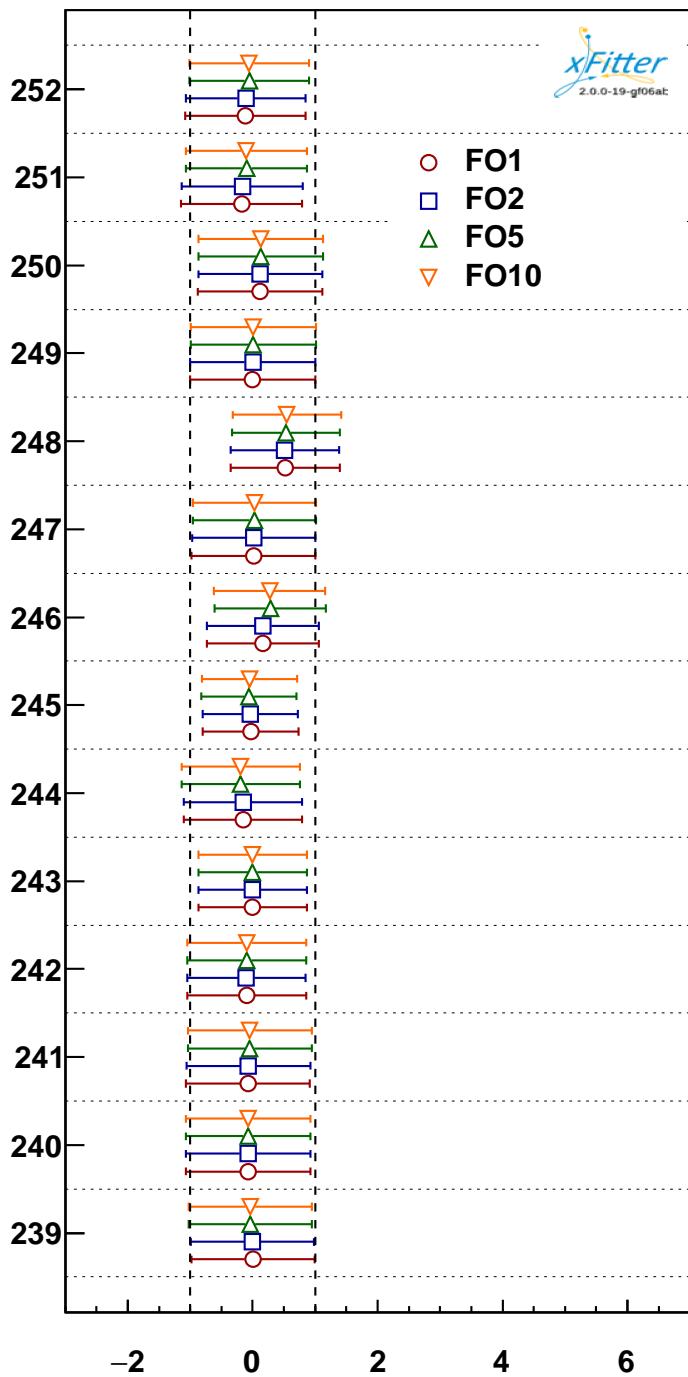
213 sysHZComb1141

212 sysHZComb1140

211 sysHZComb1139



- 238 zbv_MCmodelenjetb
- 237 xc
- 236 xb
- 235 uds
- 234 sysHZComb1162
- 233 sysHZComb1161
- 232 sysHZComb1160
- 231 sysHZComb1159
- 230 sysHZComb1158
- 229 sysHZComb1157
- 228 sysHZComb1156
- 227 sysHZComb1155
- 226 sysHZComb1154
- 225 sysHZComb1153



252 zbv_trackingef

251 zbv_renfacscale

250 zbv_mbeauty

249 zbv_lumi

248 zbv_lfas

247 zbv_jetenscale

246 zbv_fragfrac

245 zbv_emscale

244 zbv_core

243 zbv_beauty

242 zbv_asvar

241 zbv_MCmodetab

240 zbv_MCmodelq2b

239 zbv_MCmodelenjetc

Dataset	FO1	FO2	FO5	FO10
Beauty cross section ZEUS Vertex	13 / 17	13 / 17	13 / 17	13 / 17
Charm cross section H1-ZEUS combined	46 / 47	50 / 47	50 / 47	51 / 47
HERA1+2 CCep	43 / 39	43 / 39	44 / 39	46 / 39
HERA1+2 CCem	55 / 42	55 / 42	54 / 42	54 / 42
HERA1+2 NCem	219 / 159	219 / 159	217 / 159	219 / 159
HERA1+2 NCep 820	66 / 70	64 / 70	65 / 70	64 / 70
HERA1+2 NCep 920	445 / 377	433 / 377	456 / 377	471 / 377
HERA1+2 NCep 460	219 / 204	220 / 204	218 / 204	222 / 204
HERA1+2 NCep 575	219 / 254	217 / 254	219 / 254	218 / 254
H1 F2 Beauty Vertex	3.7 / 12	3.7 / 12	3.4 / 12	3.5 / 12
Correlated χ^2	112	110	116	113
Log penalty χ^2	+15	+13	+11	+6.3
Total χ^2 / dof	1456 / 1207	1441 / 1207	1465 / 1207	1479 / 1207
χ^2 p-value	0.00	0.00	0.00	0.00

Parameter	FO1	FO2	FO5	FO10
'Bg'	-0.077 ± 0.026	-0.073 ± 0.027	-0.07 ± 0.20	-0.10 ± 0.14
'Cg'	5.46 ± 0.31	5.78 ± 0.32	6.92 ± 0.77	6.75 ± 0.77
'Aprig'	0.354 ± 0.054	0.514 ± 0.085	0.95 ± 0.75	1.07 ± 0.49
'Bprig'	-0.332 ± 0.017	-0.260 ± 0.020	-0.220 ± 0.059	-0.218 ± 0.060
'Cprig'	25.00	25.00	25.00	25.00
'Buv'	0.799 ± 0.017	0.795 ± 0.017	0.787 ± 0.043	0.768 ± 0.040
'Cuv'	4.771 ± 0.061	4.776 ± 0.061	4.780 ± 0.086	4.797 ± 0.082
'Euv'	11.60 ± 0.93	11.87 ± 0.94	12.3 ± 2.2	13.2 ± 2.2
'Bdv'	0.992 ± 0.063	0.992 ± 0.063	0.99 ± 0.10	0.96 ± 0.10
'Cdv'	4.48 ± 0.29	4.47 ± 0.29	4.47 ± 0.43	4.41 ± 0.41
'CUbar'	7.44 ± 0.62	7.55 ± 0.58	8.15 ± 1.00	8.11 ± 0.95
'DUbar'	4.3 ± 1.2	4.9 ± 1.1	8.4 ± 2.4	8.6 ± 2.4
'ADbar'	0.2583 ± 0.0094	0.2662 ± 0.0099	0.240 ± 0.014	0.240 ± 0.014
'BDbar'	-0.1200 ± 0.0046	-0.1147 ± 0.0048	-0.1262 ± 0.0072	-0.1259 ± 0.0070
'CDbar'	8.6 ± 1.3	8.8 ± 1.3	8.3 ± 1.9	8.1 ± 1.7
'alphas'	0.1180	0.1180	0.1180	0.1180
'fs'	0.4000	0.4000	0.4000	0.4000
Fit status	not-a-fit	not-a-fit	converged	converged
Uncertainties	not-a-fit	not-a-fit	migrad-hesse	migrad-hesse