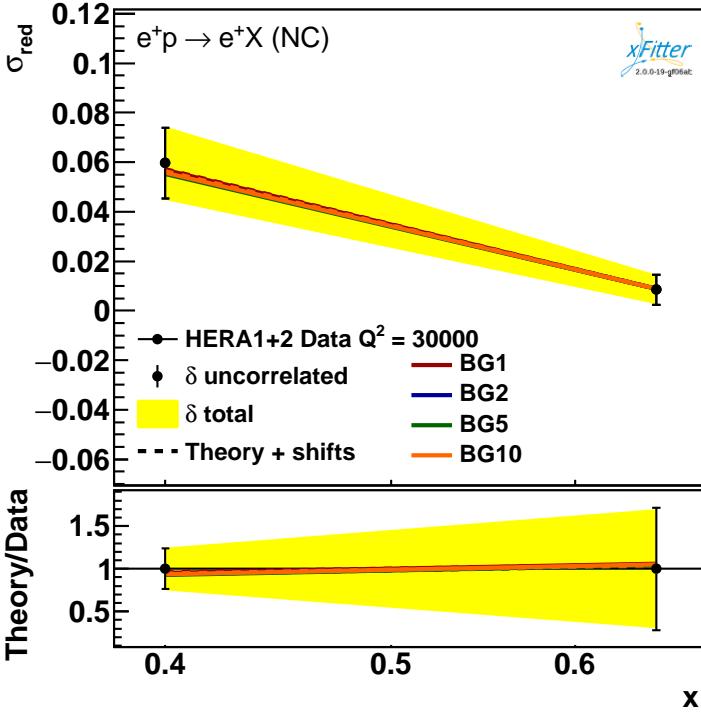
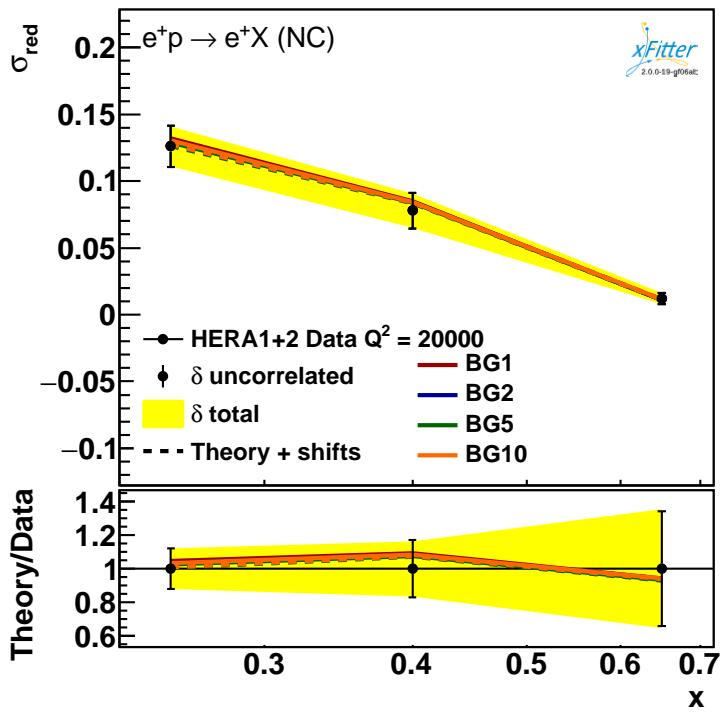
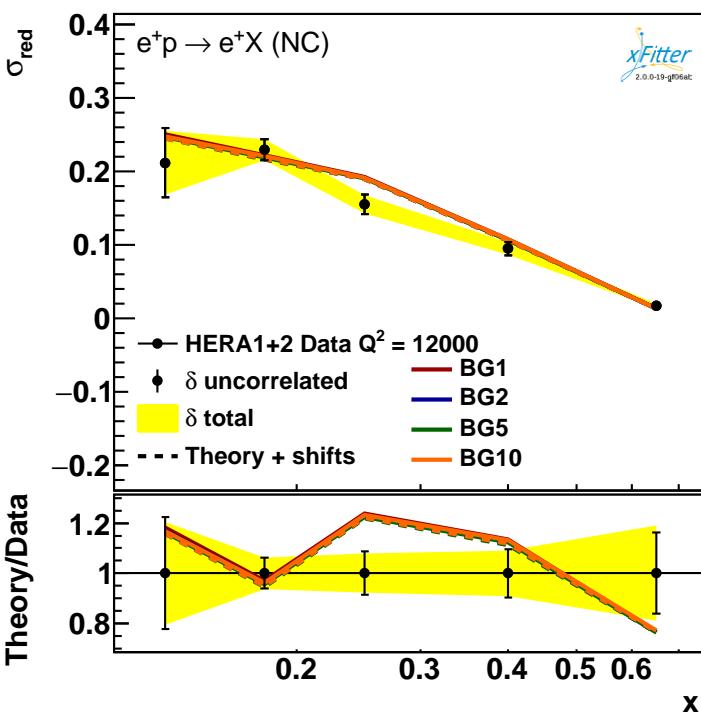
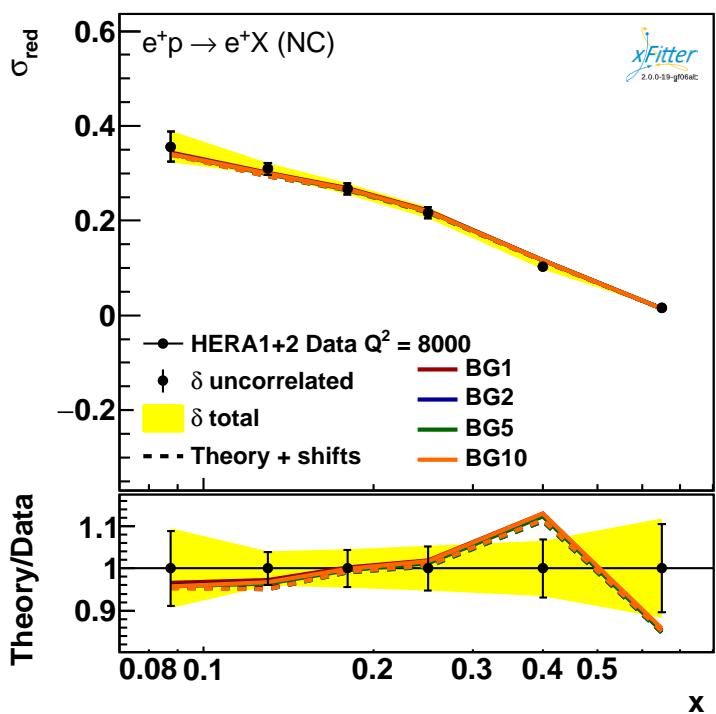
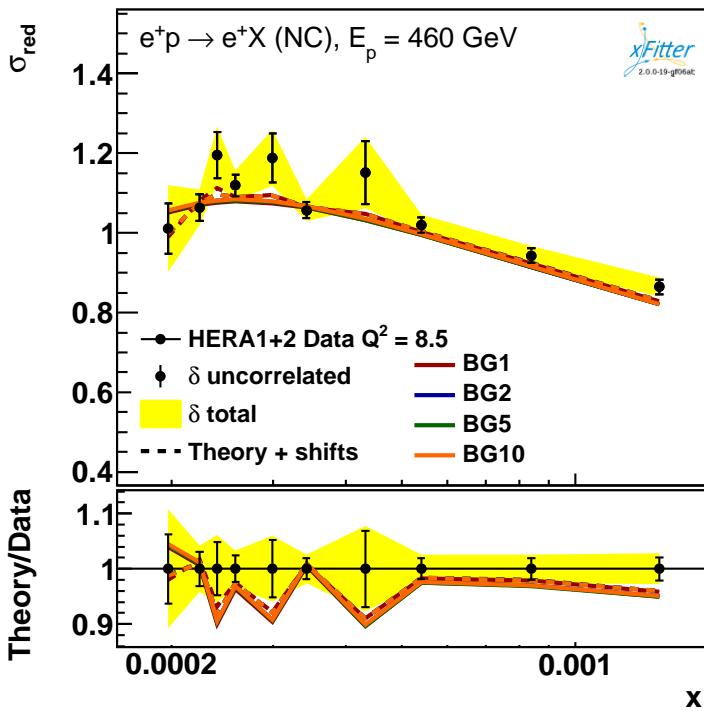
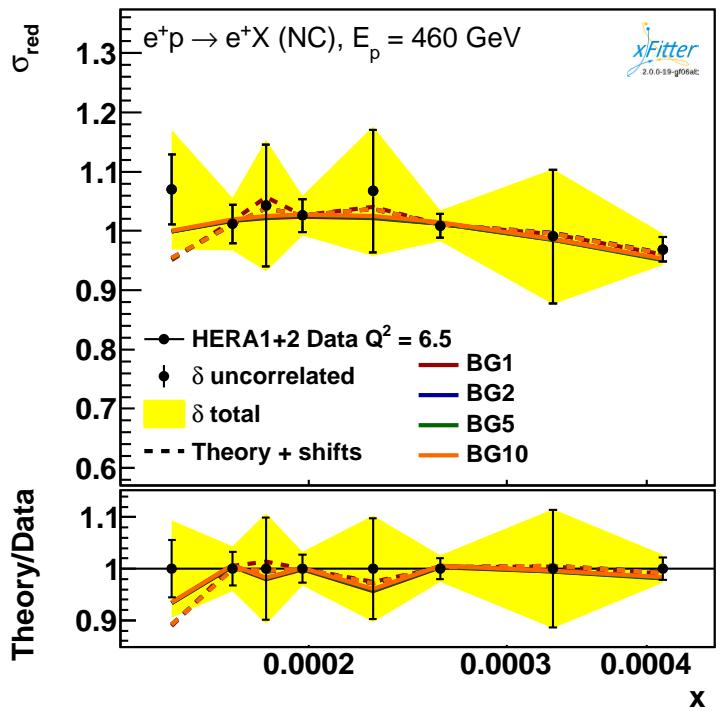
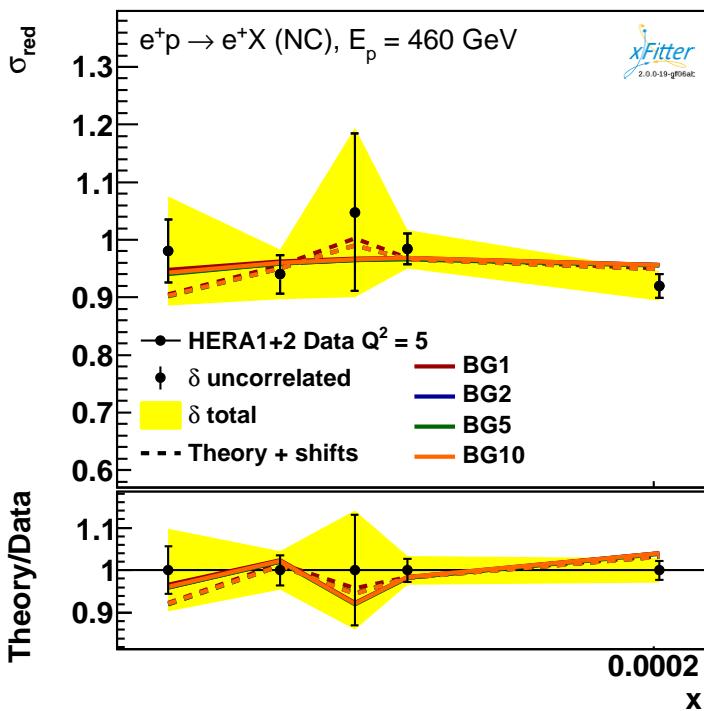
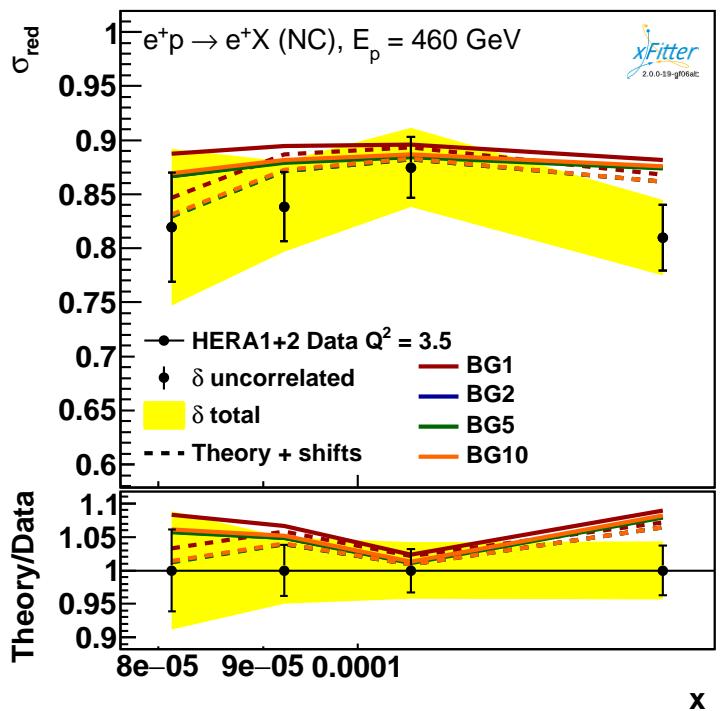
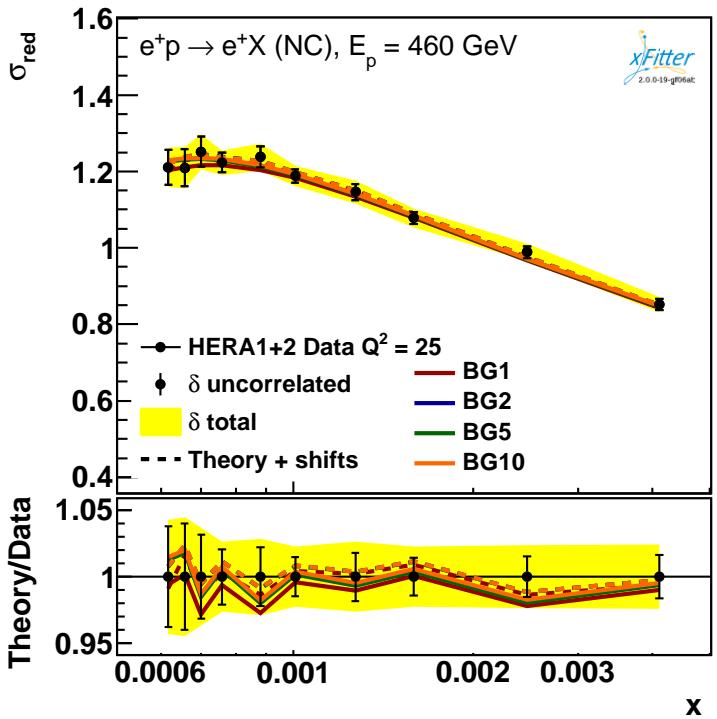
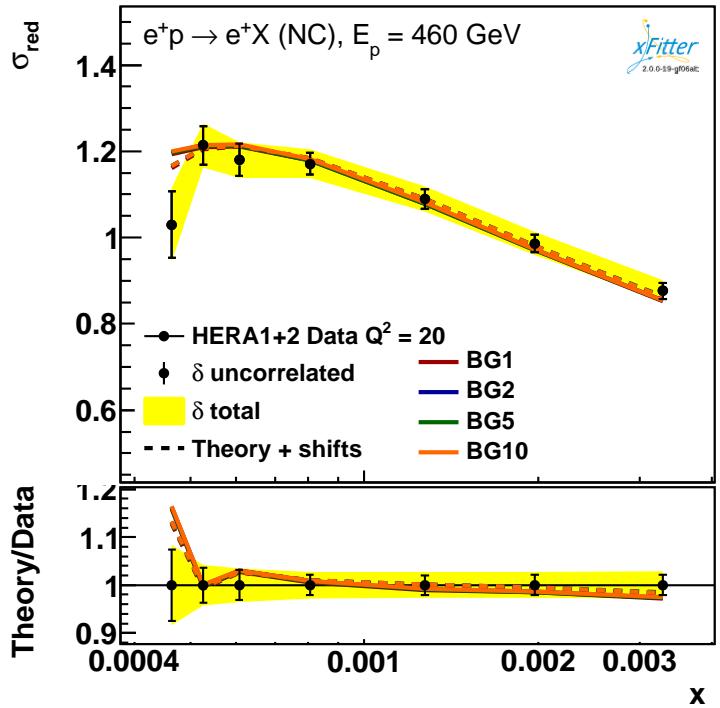
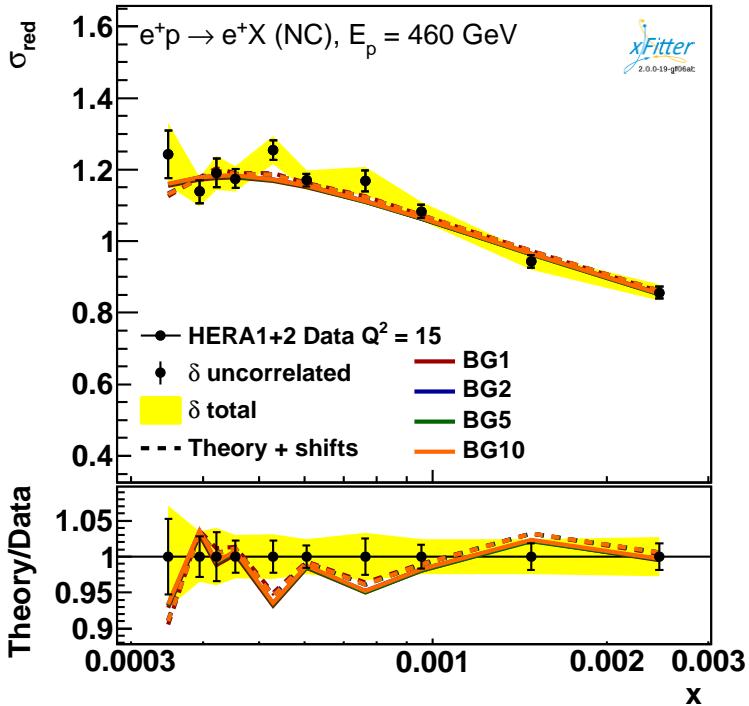
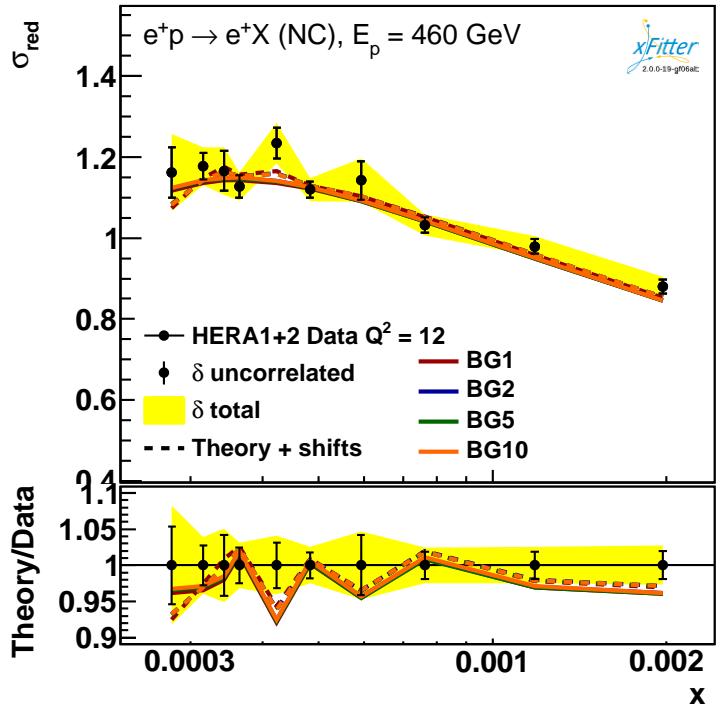


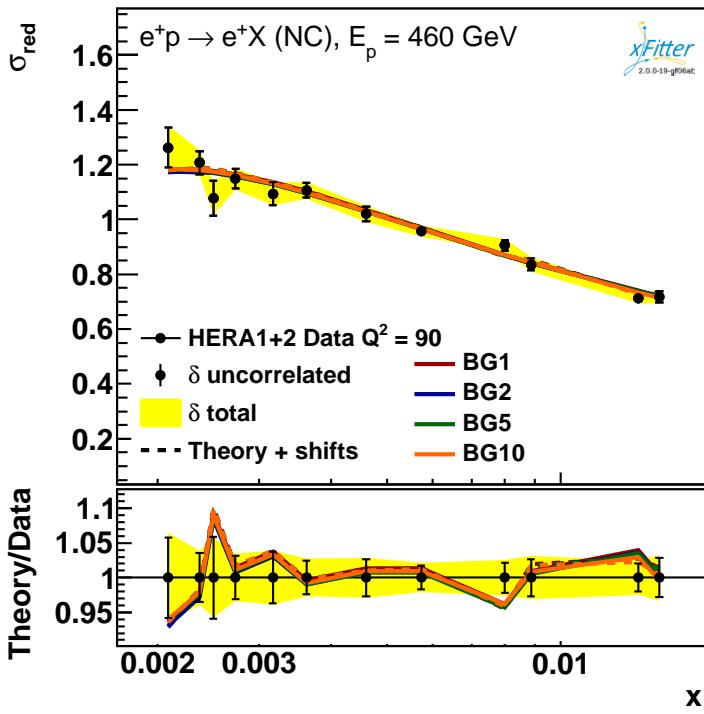
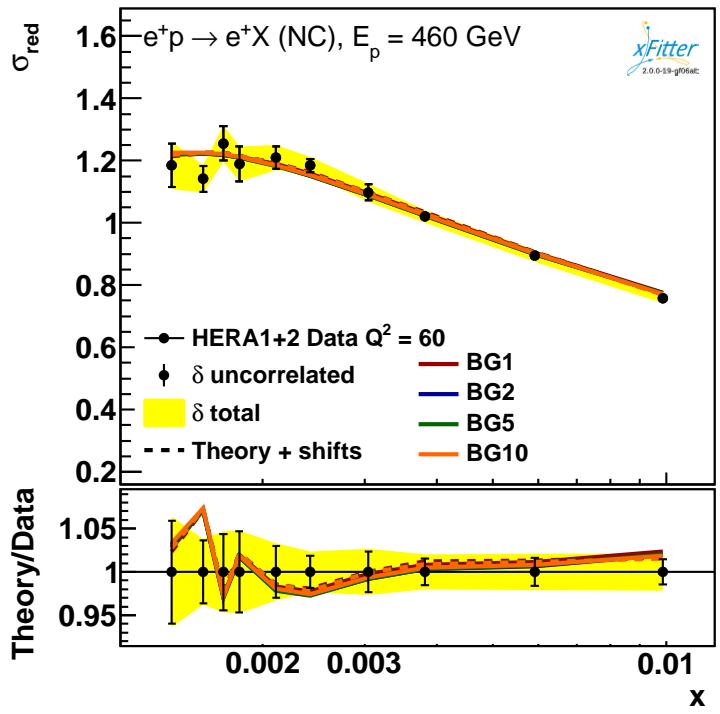
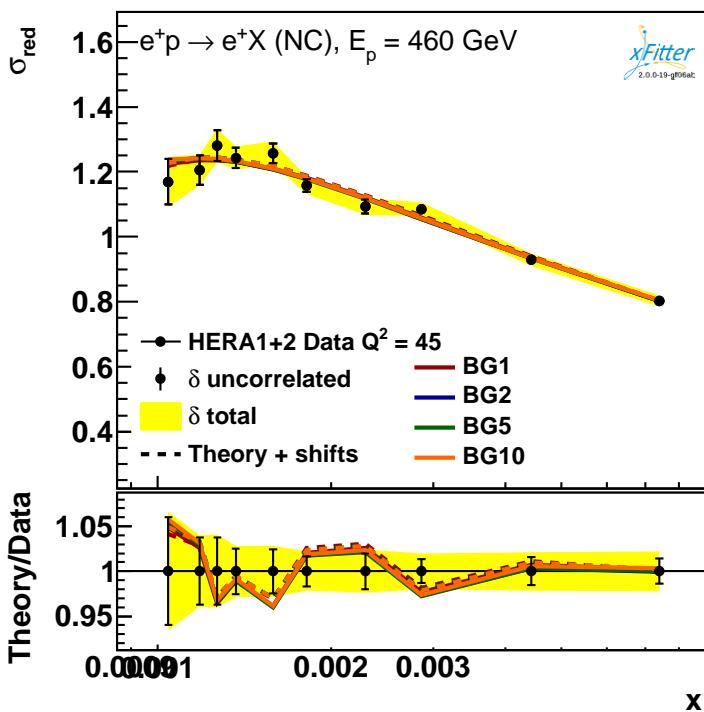
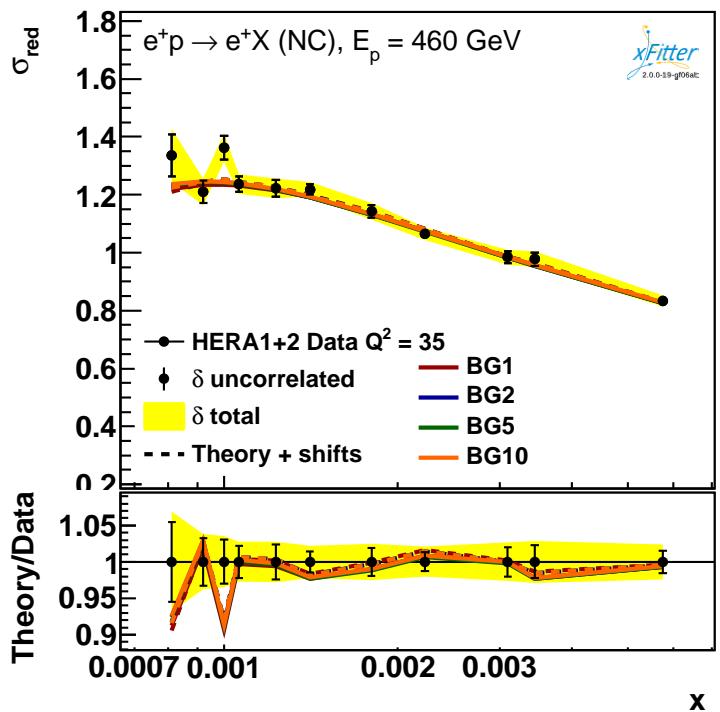
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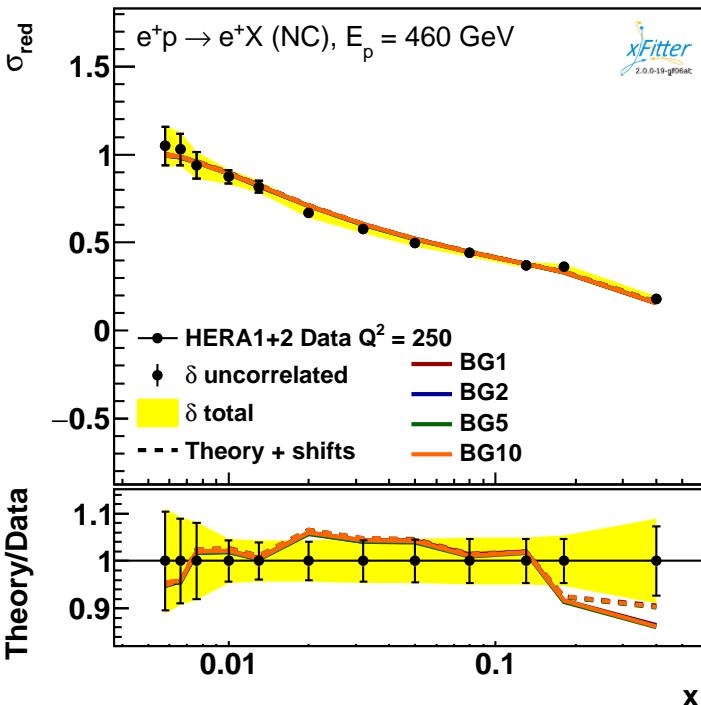
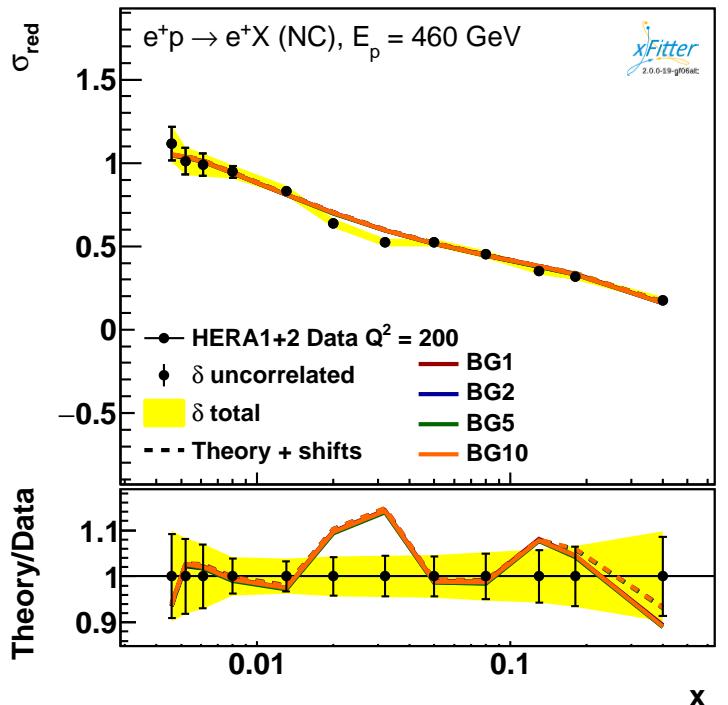
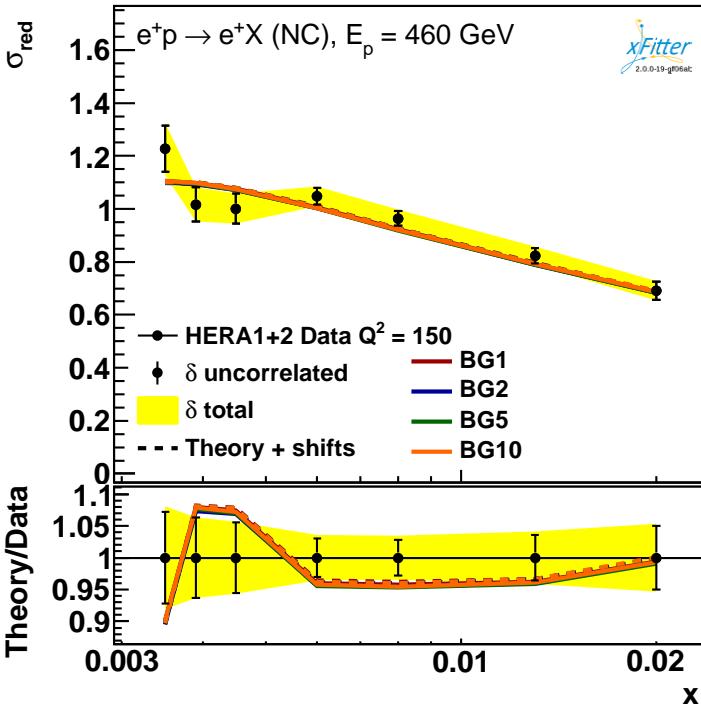
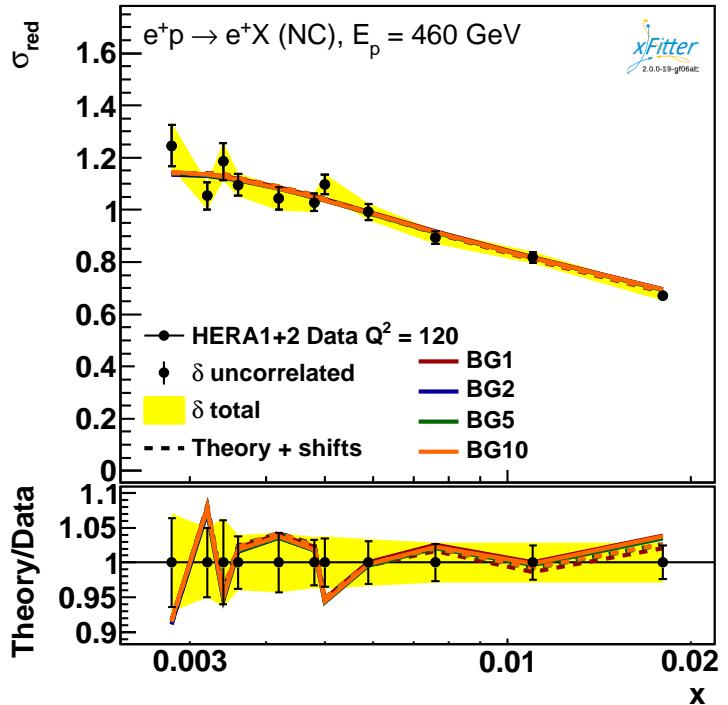
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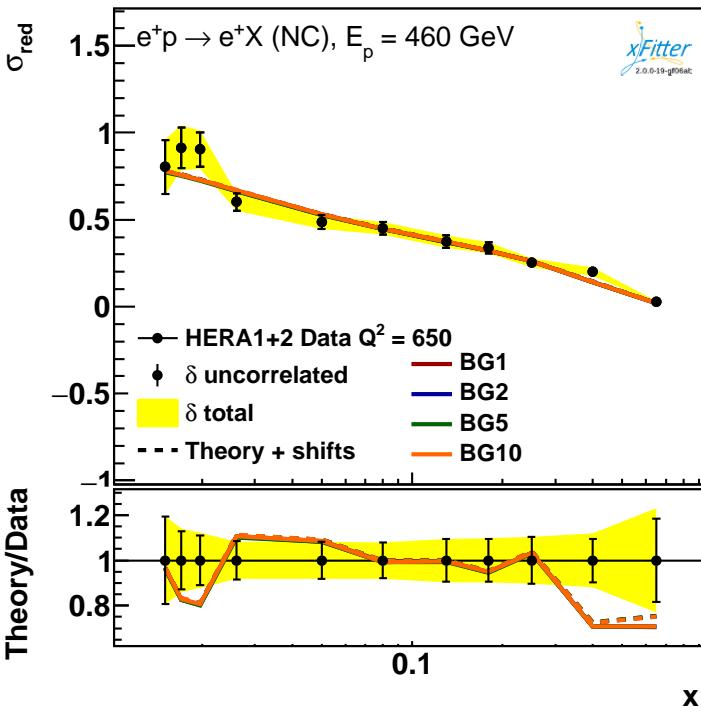
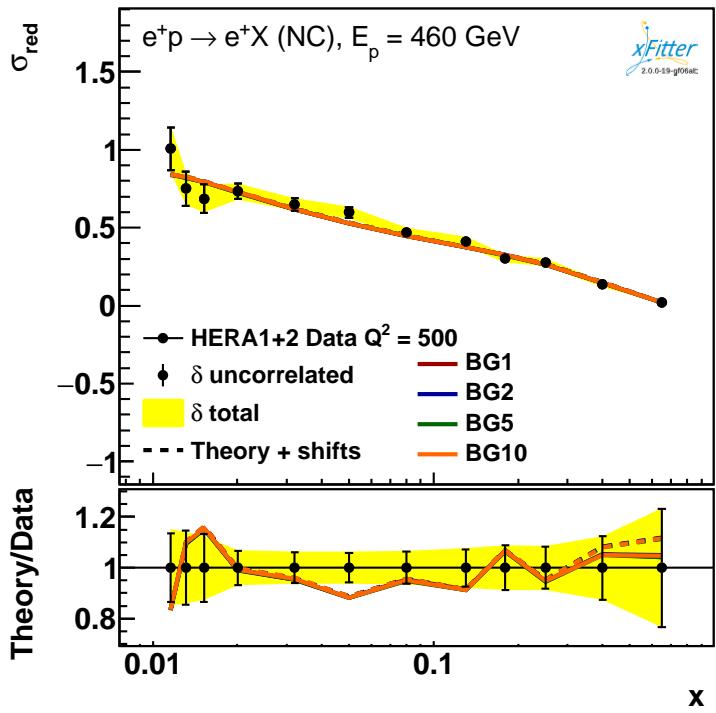
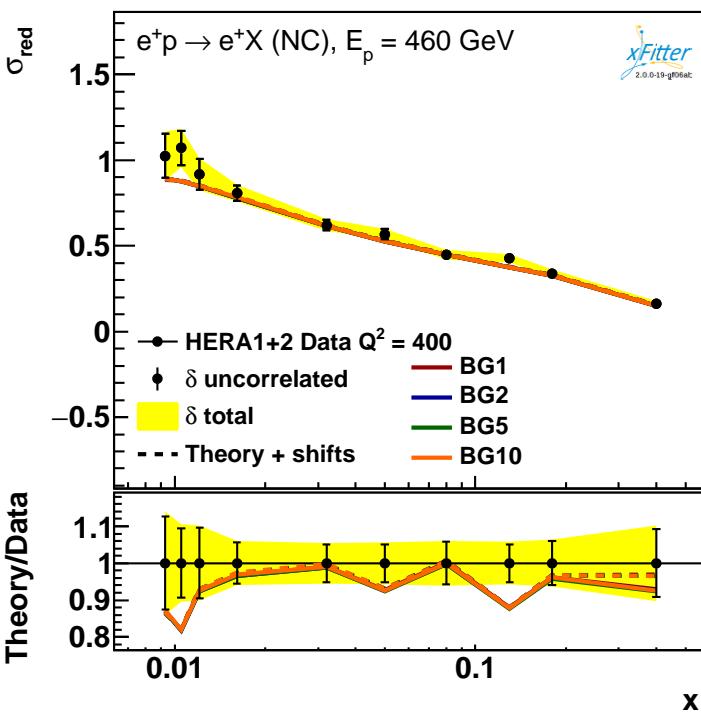
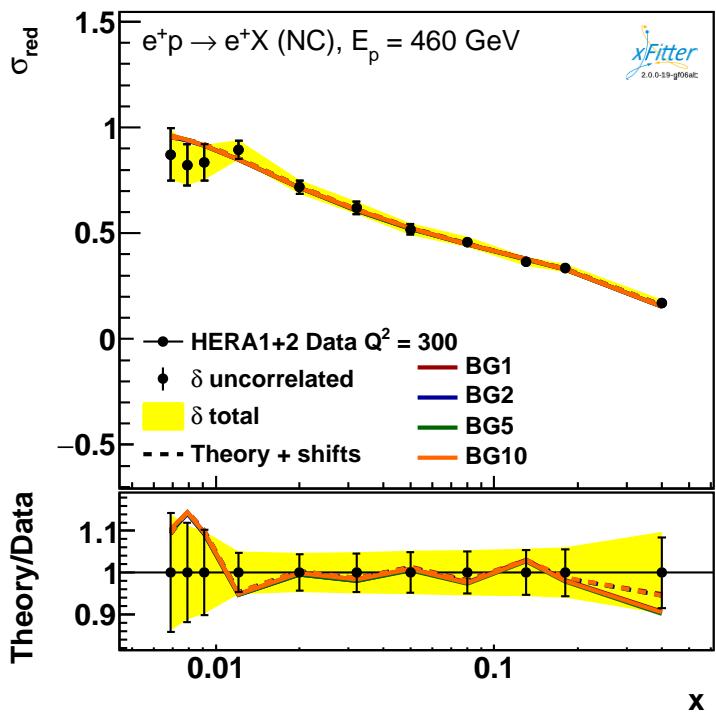


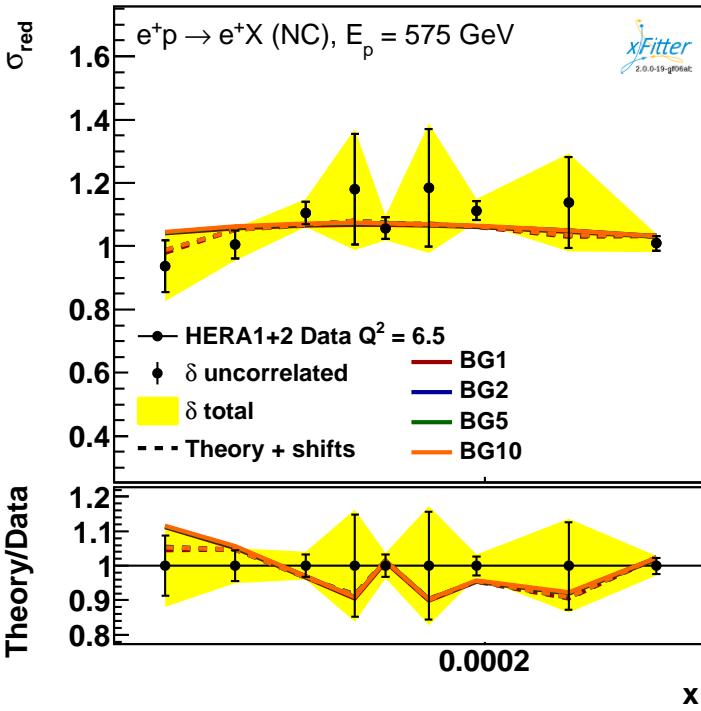
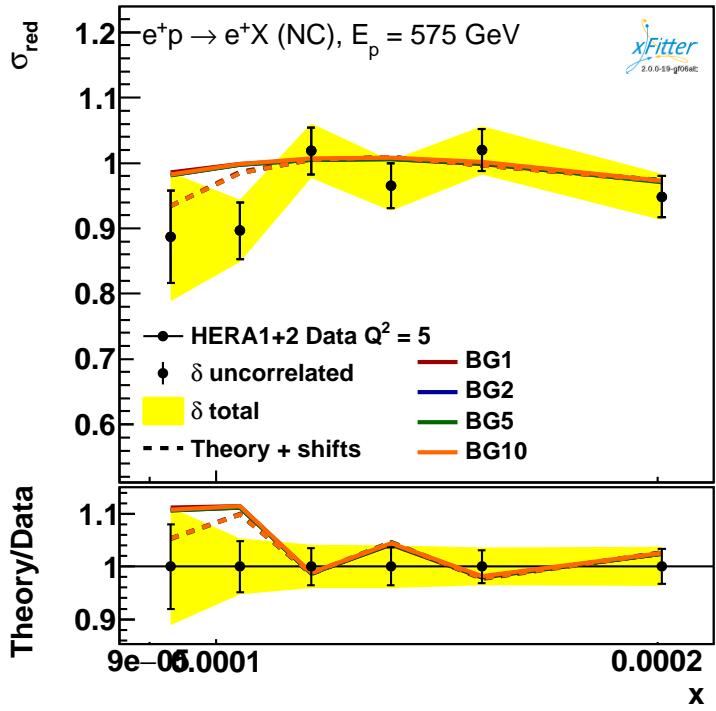
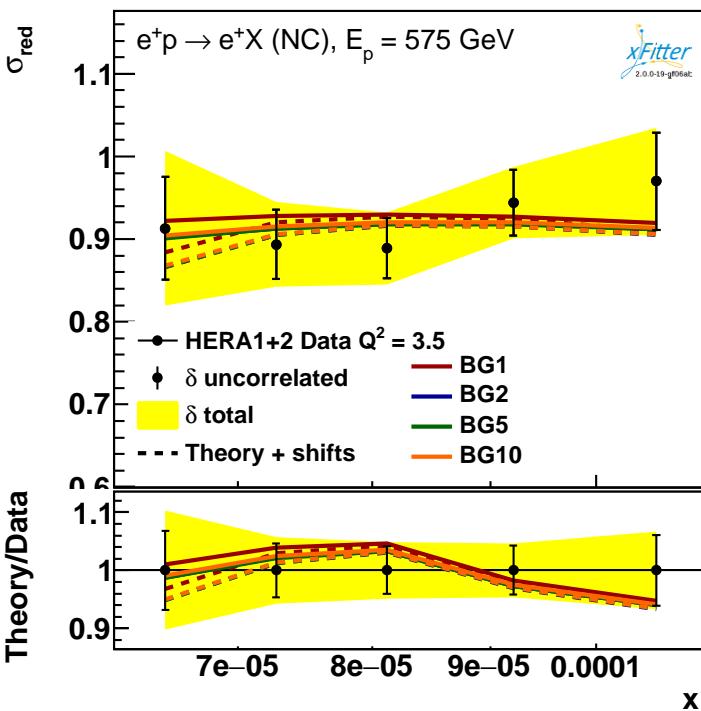
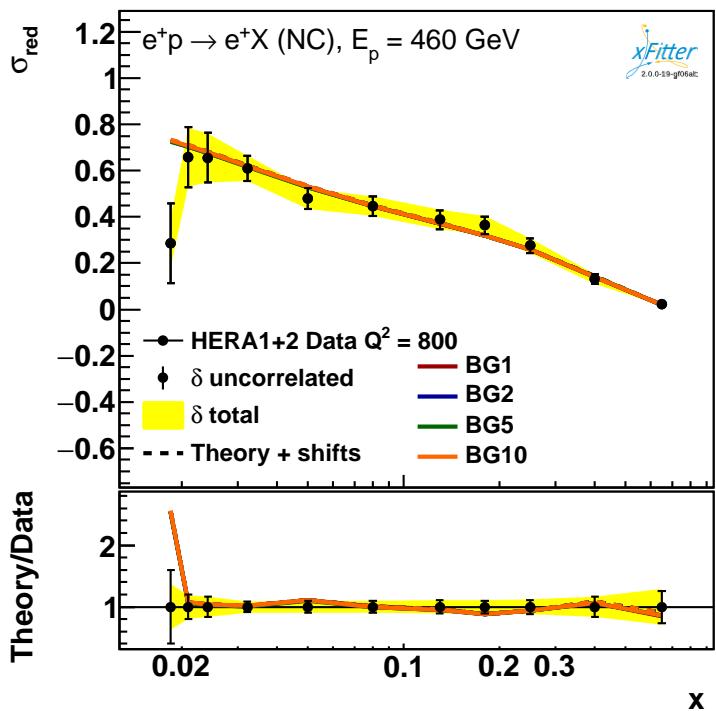


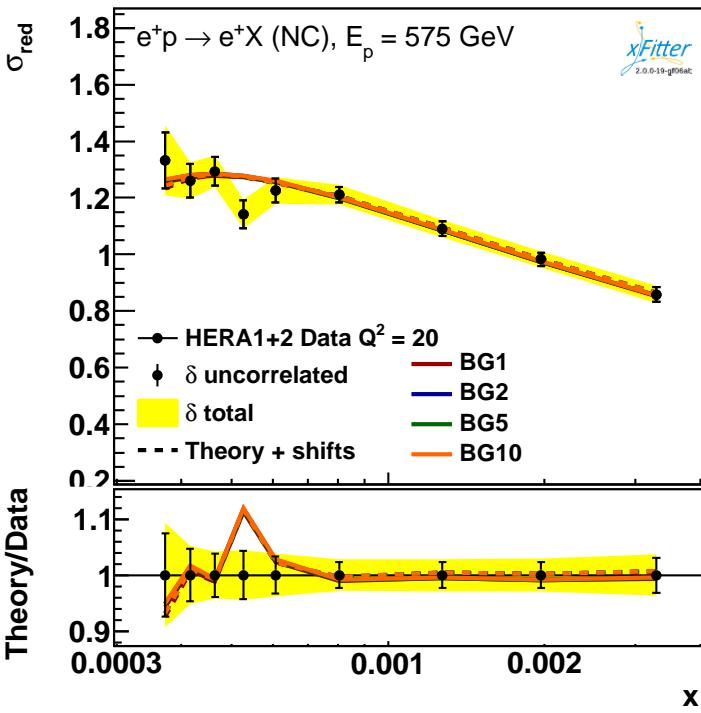
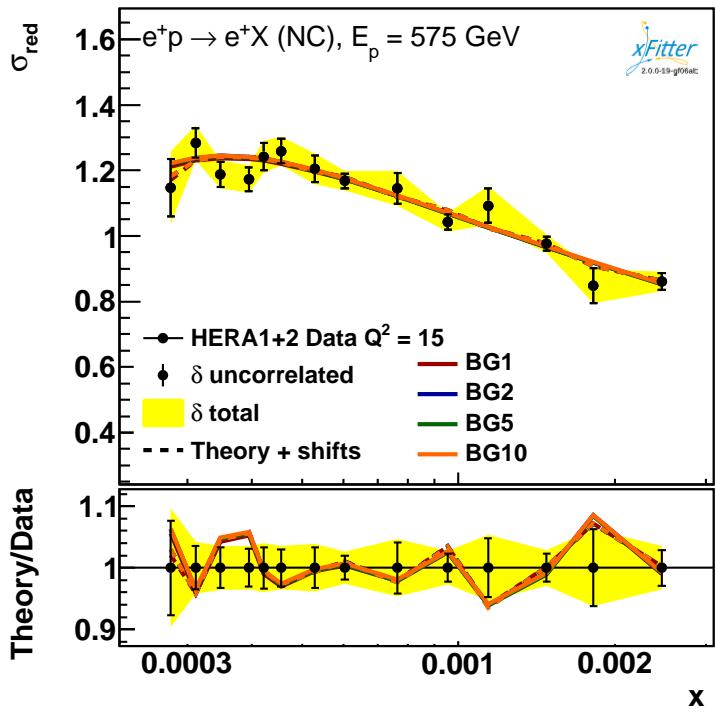
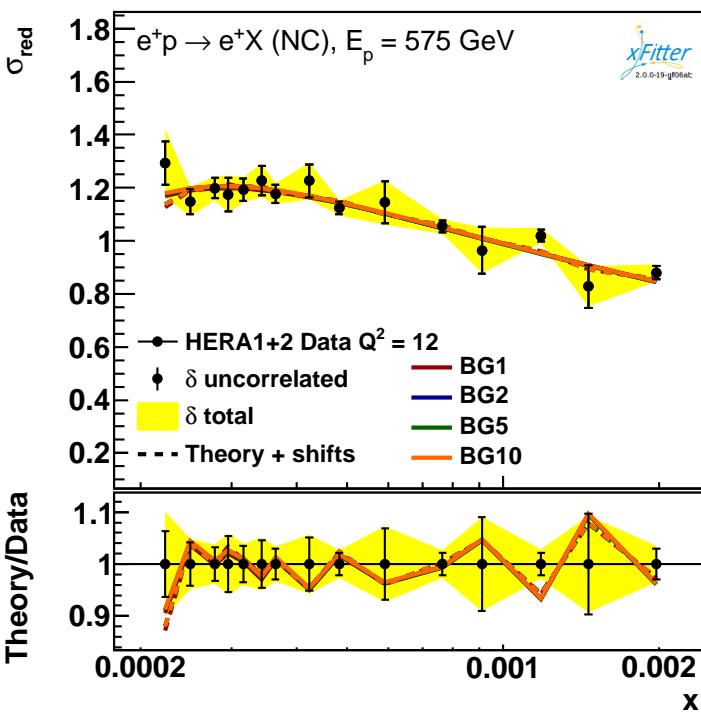
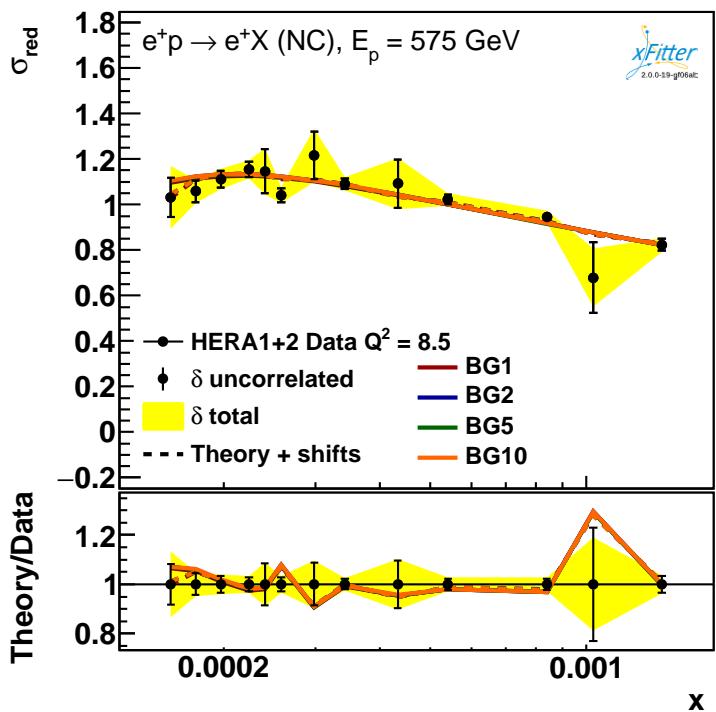


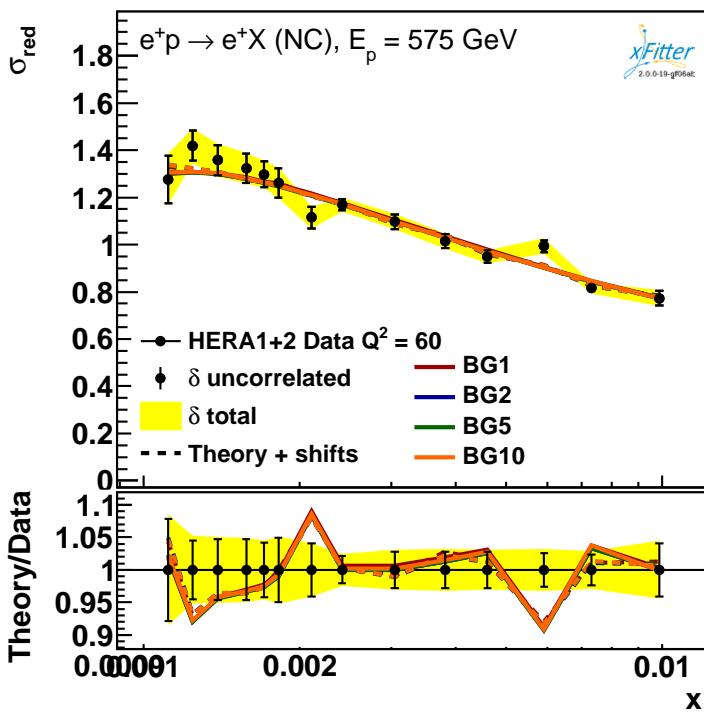
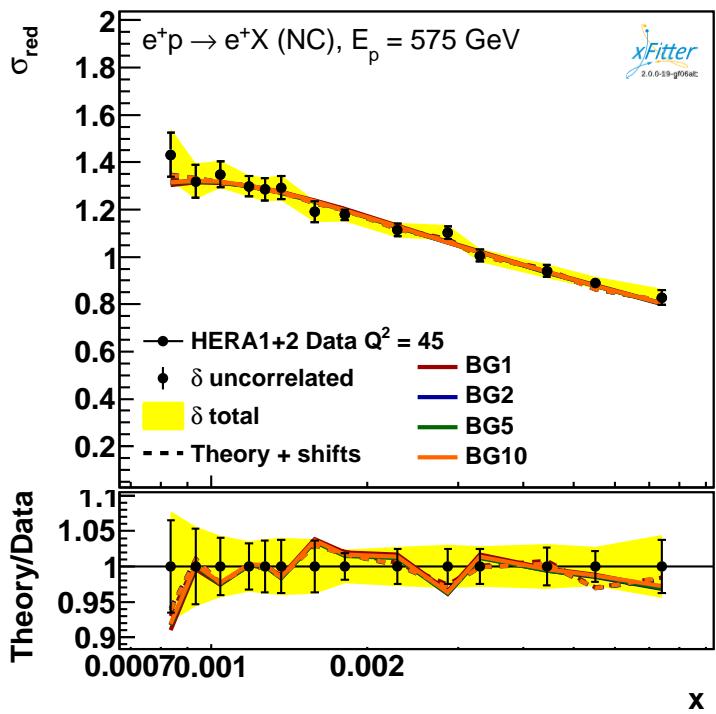
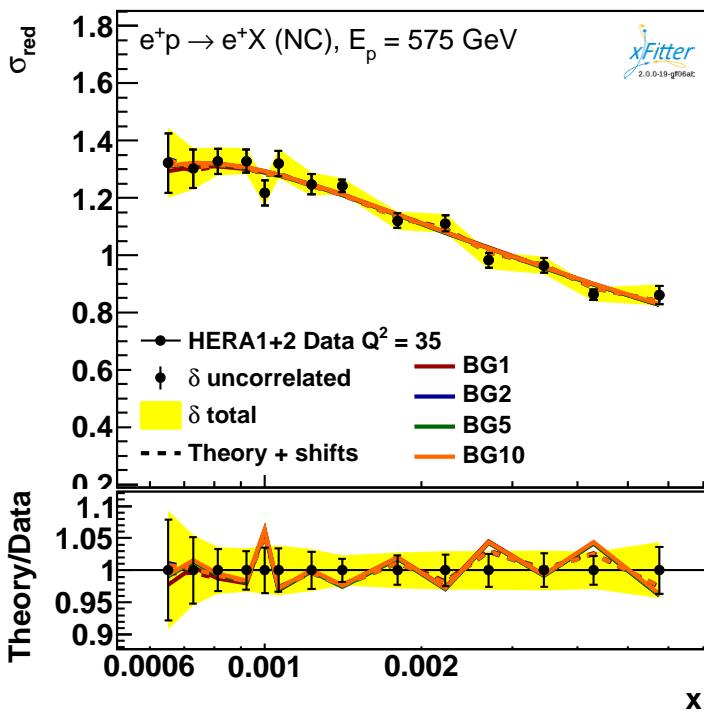
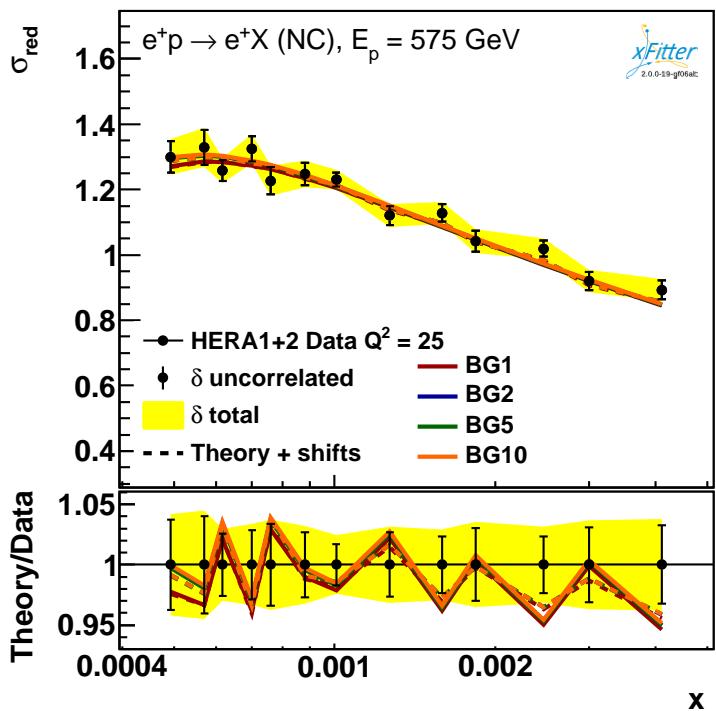


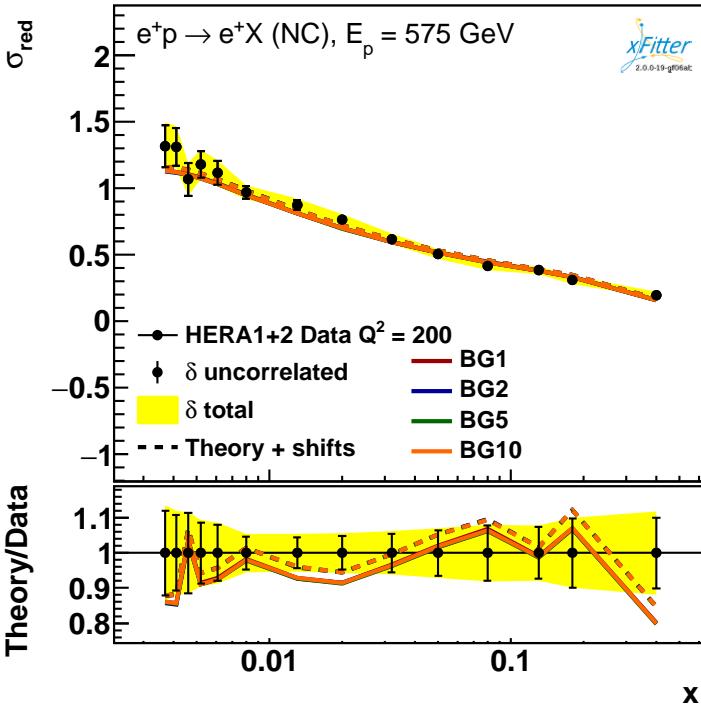
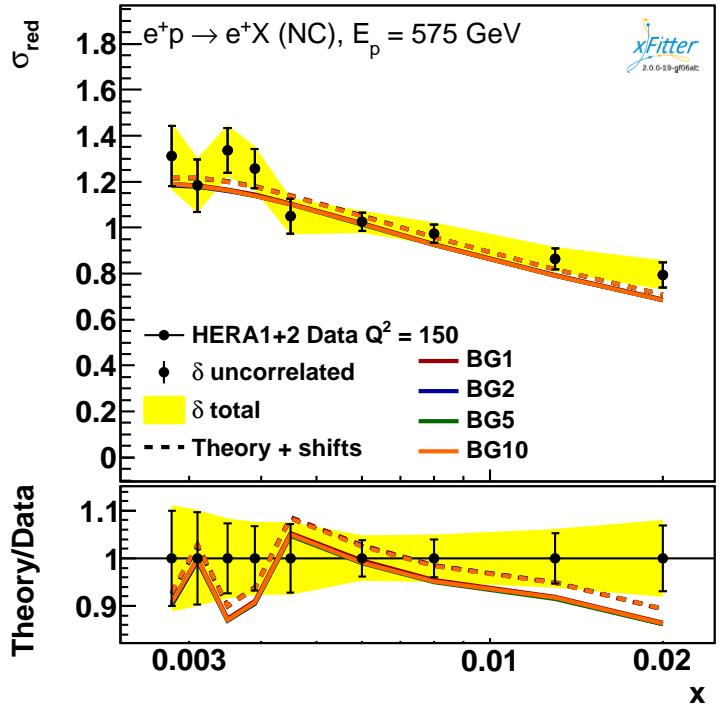
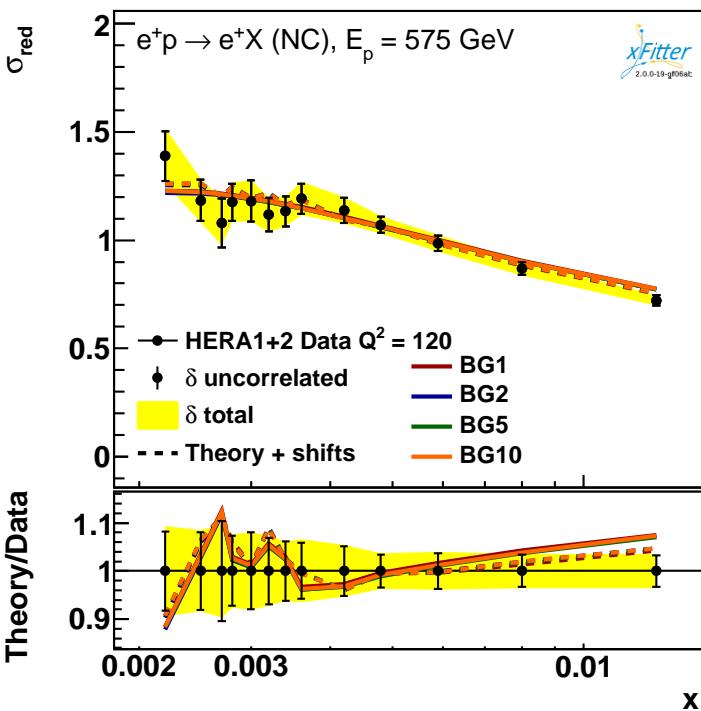
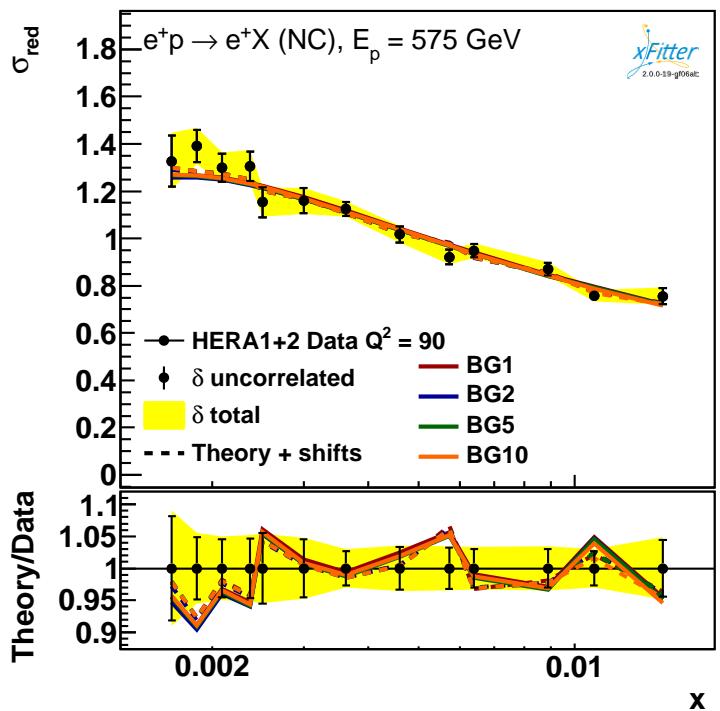


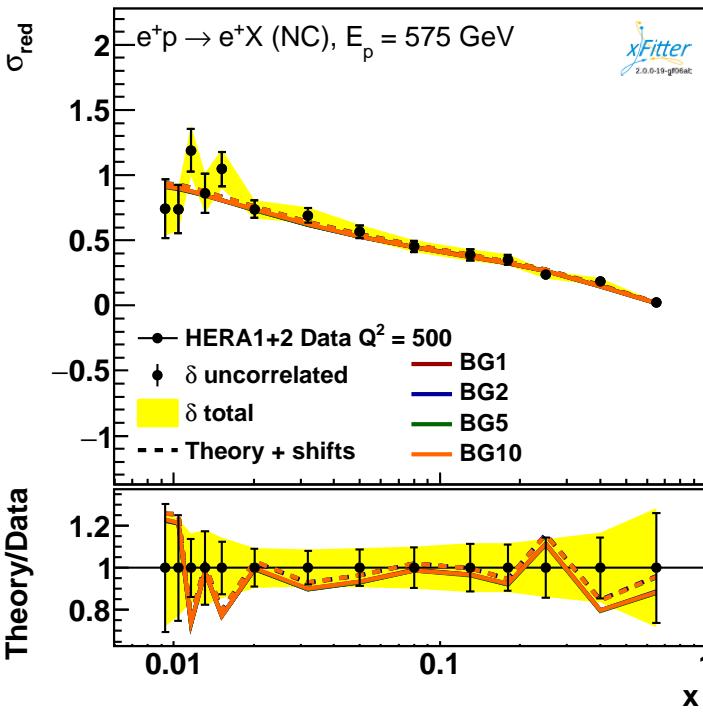
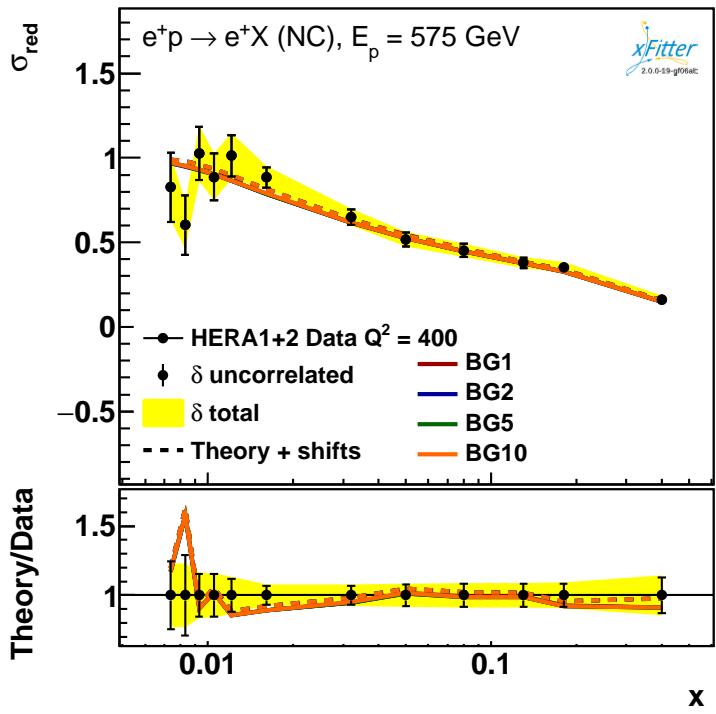
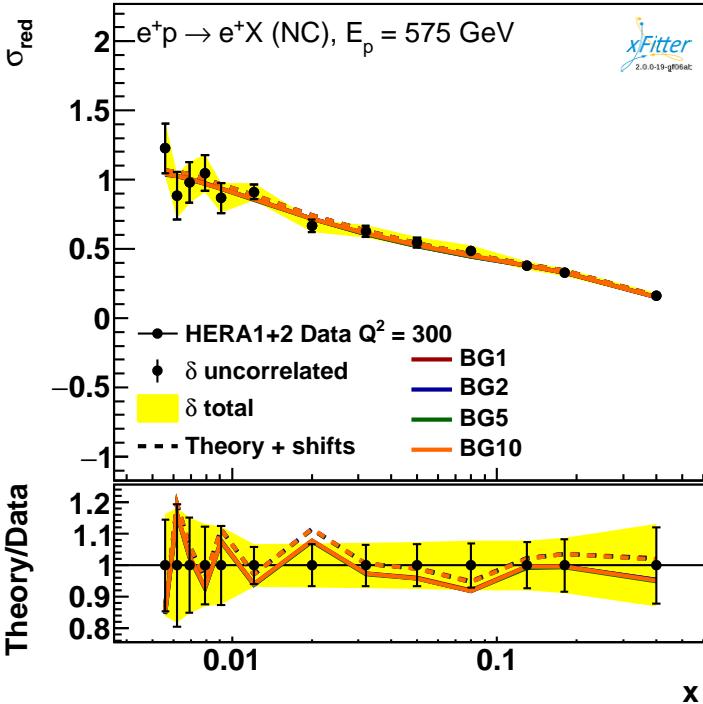
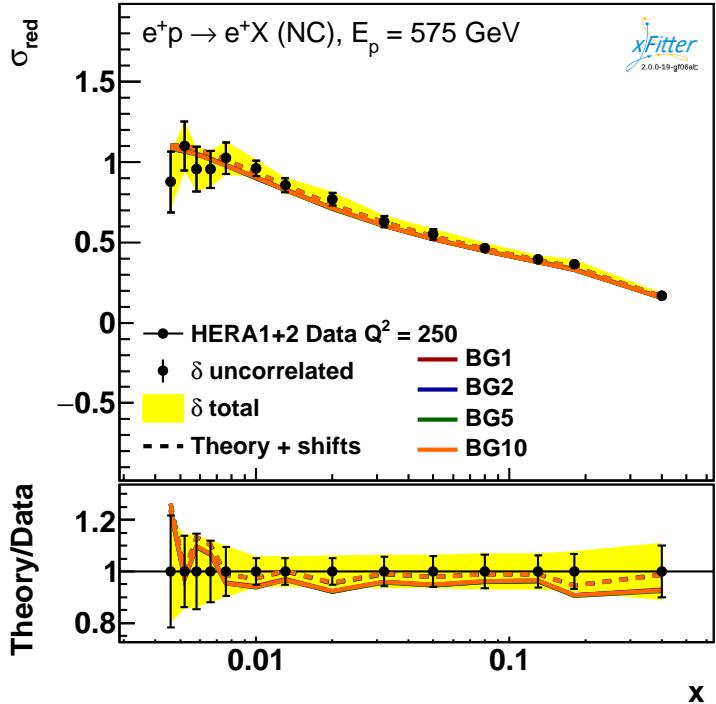


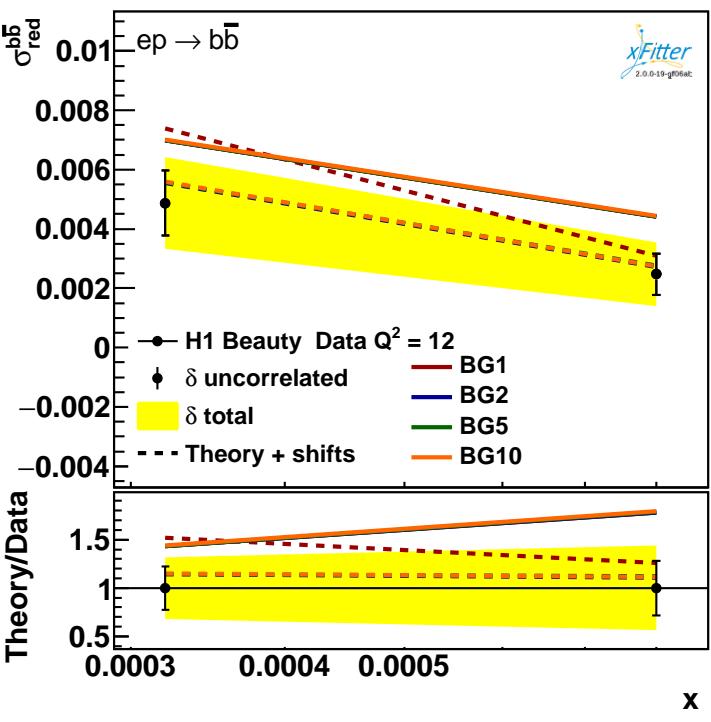
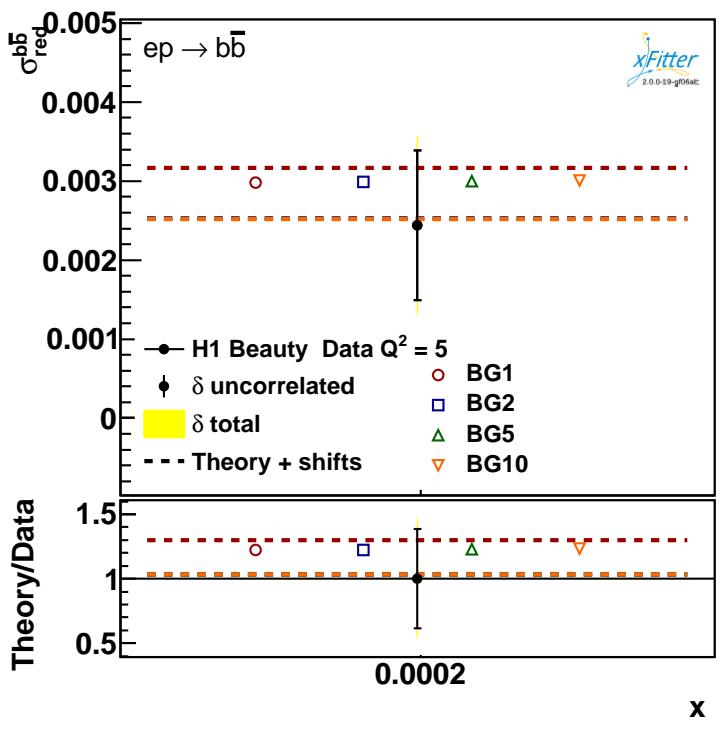
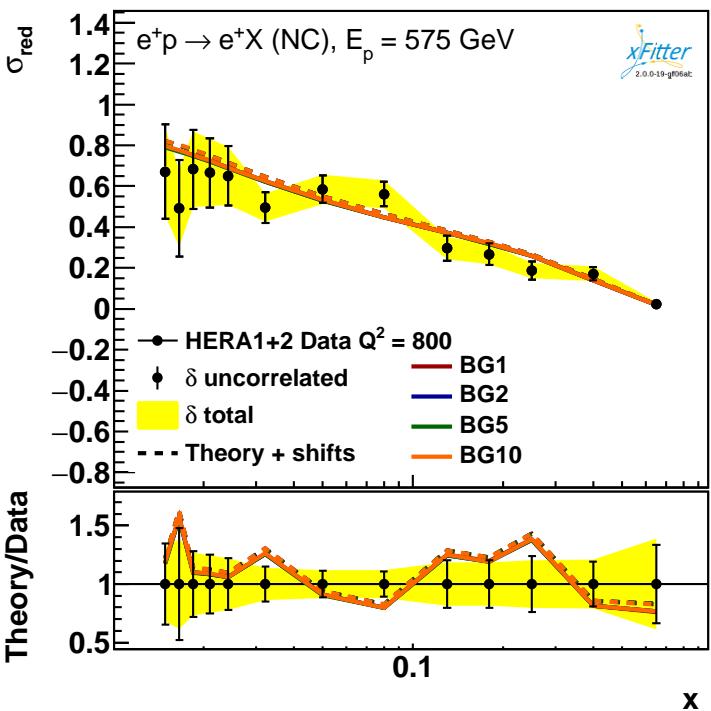
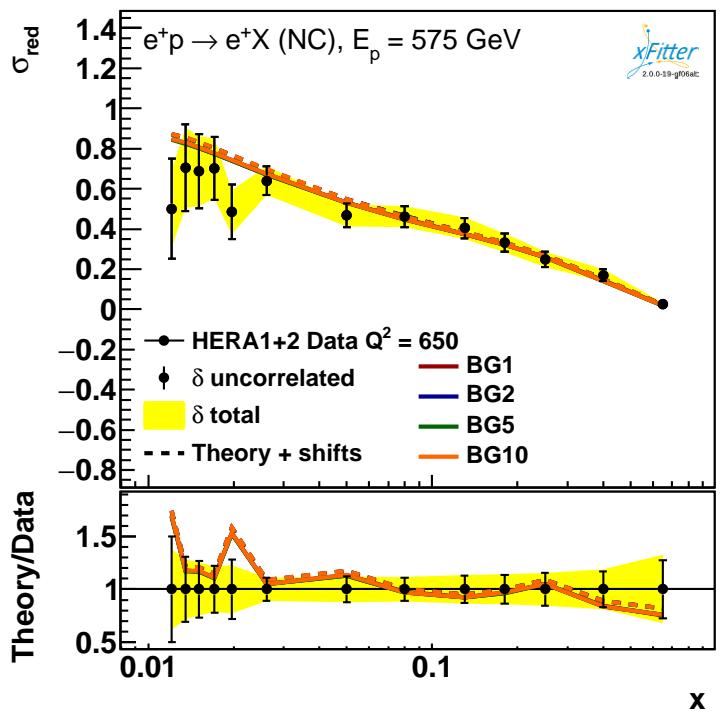


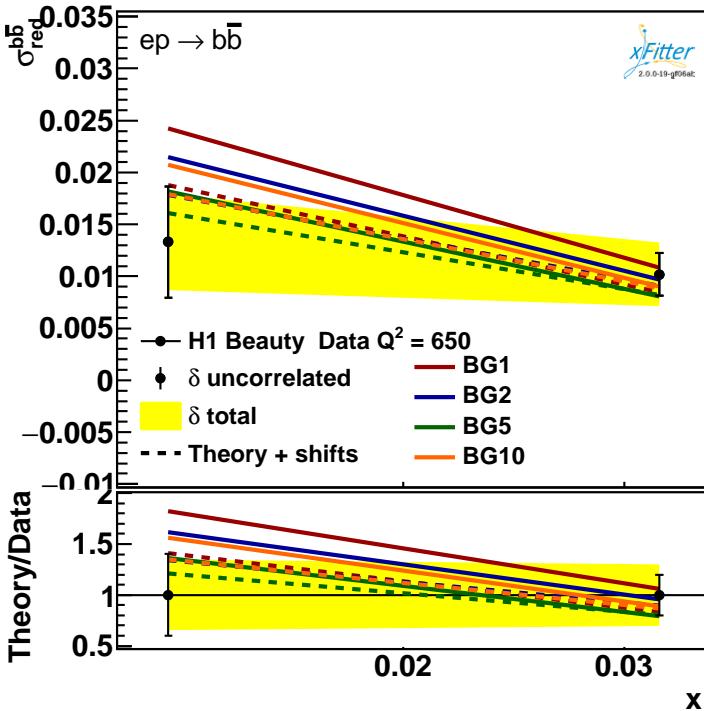
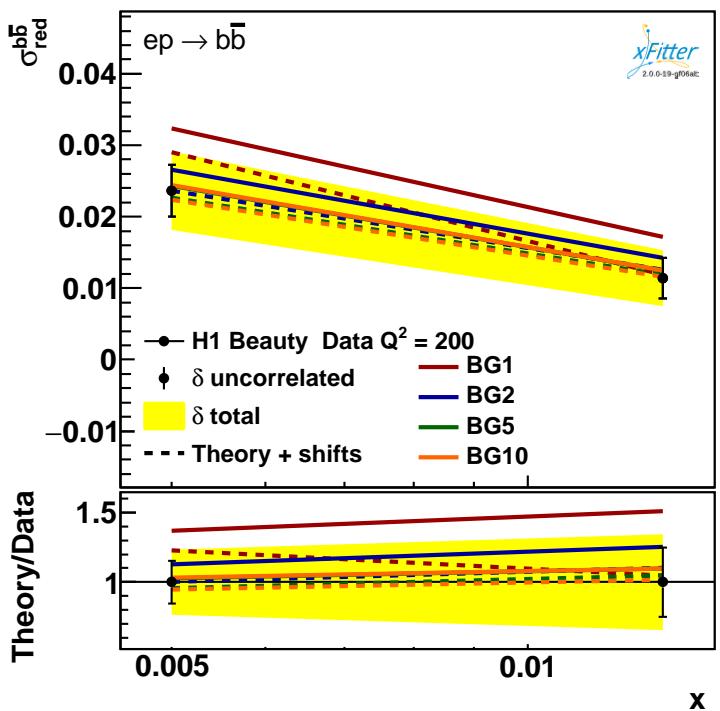
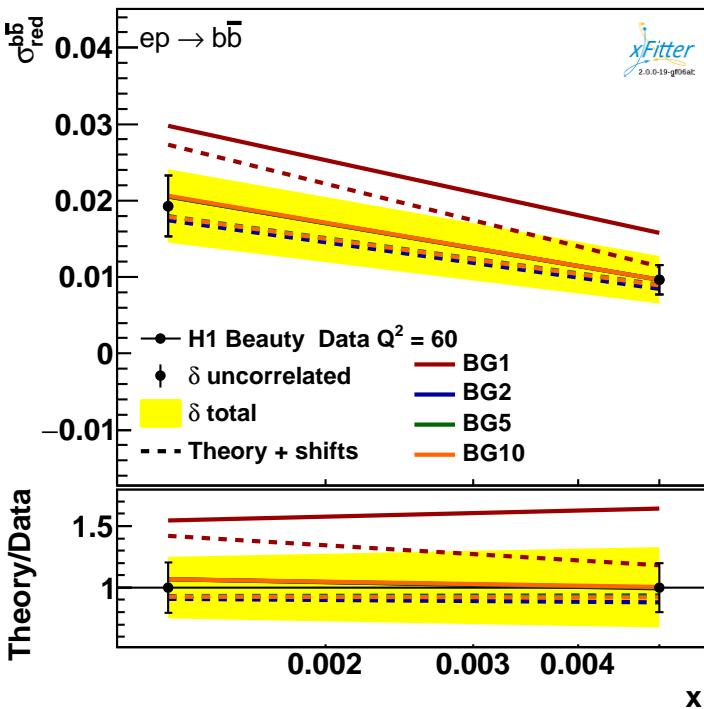
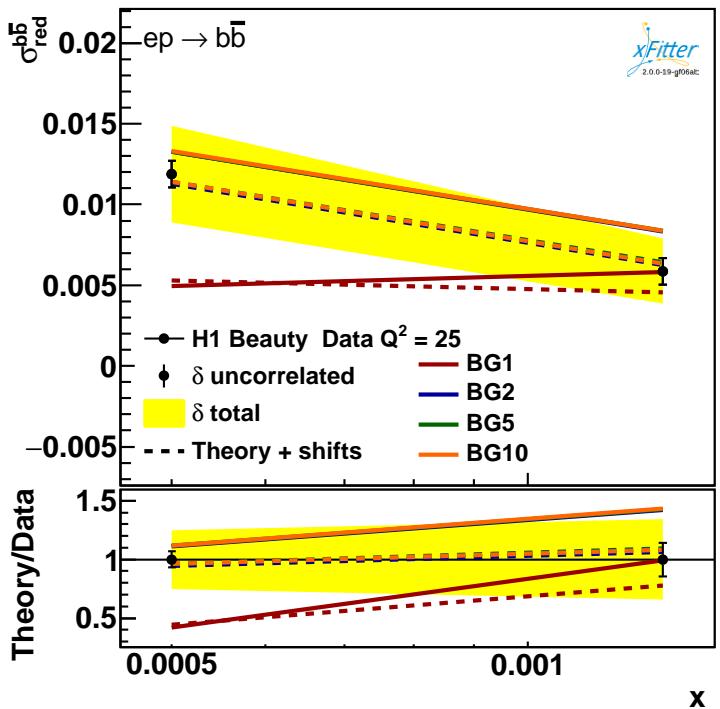


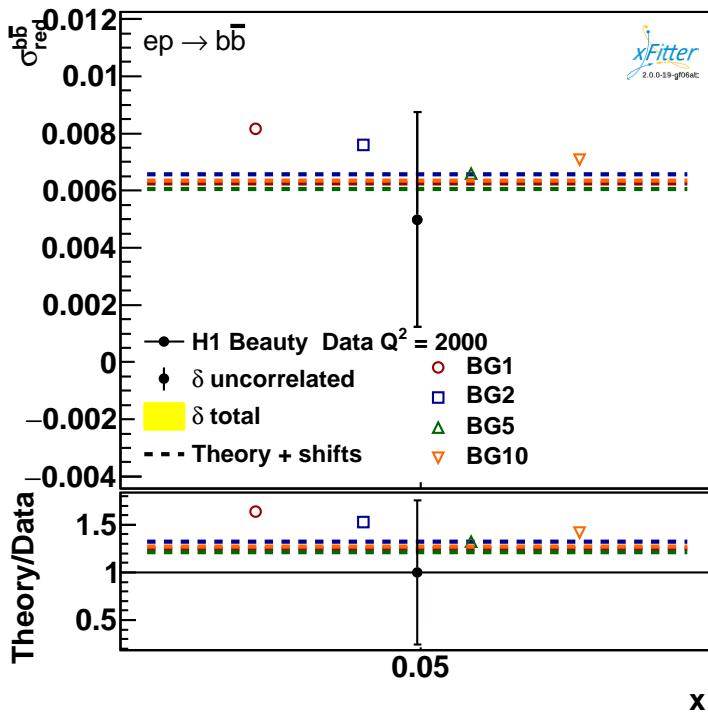


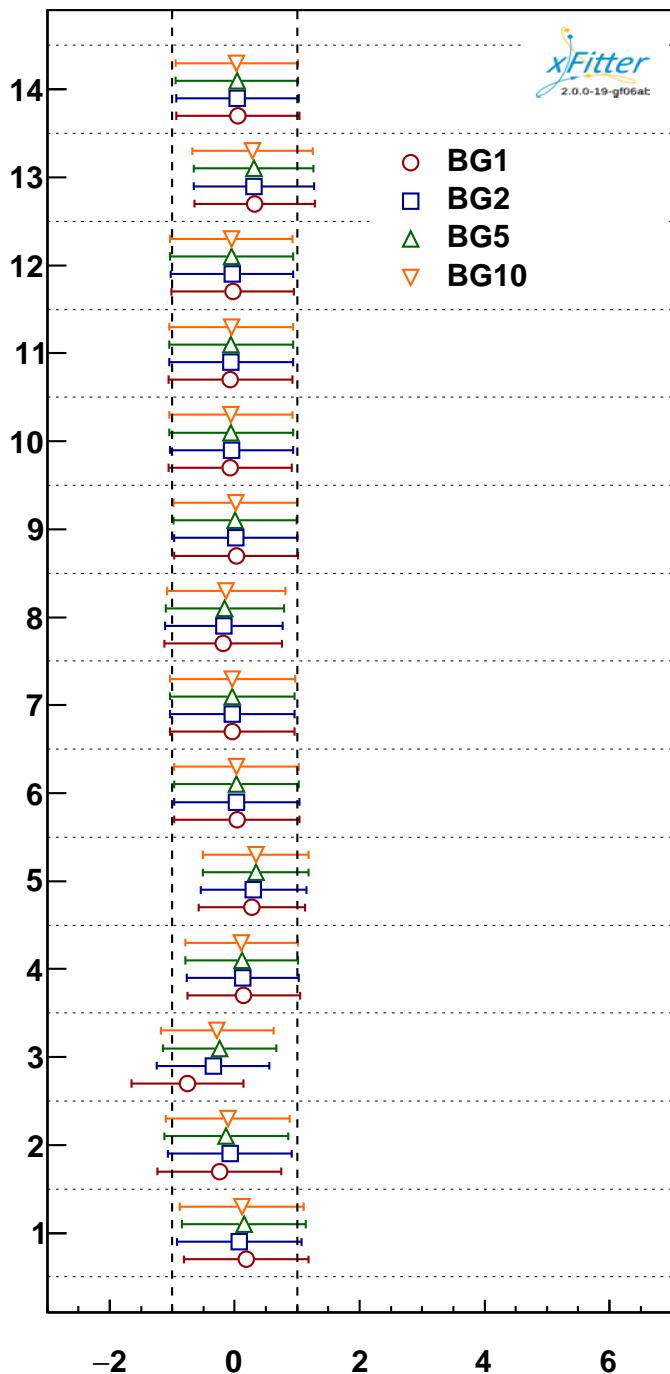




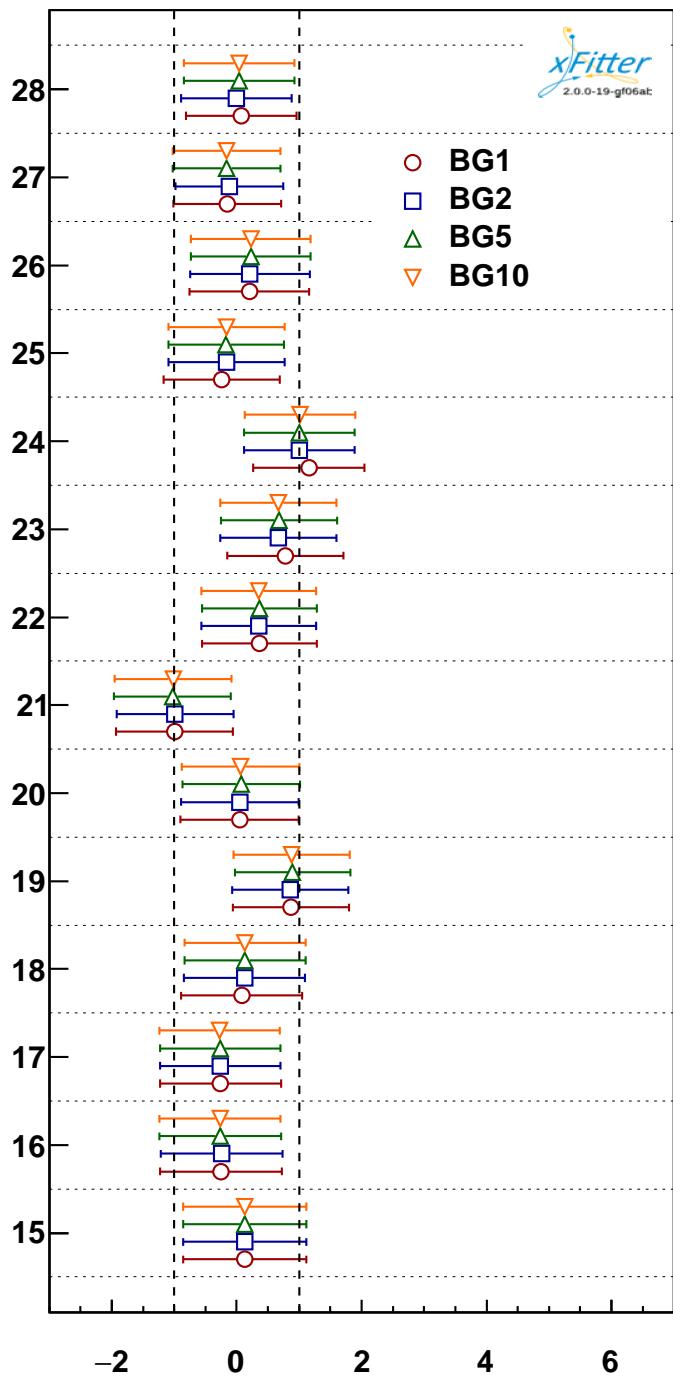




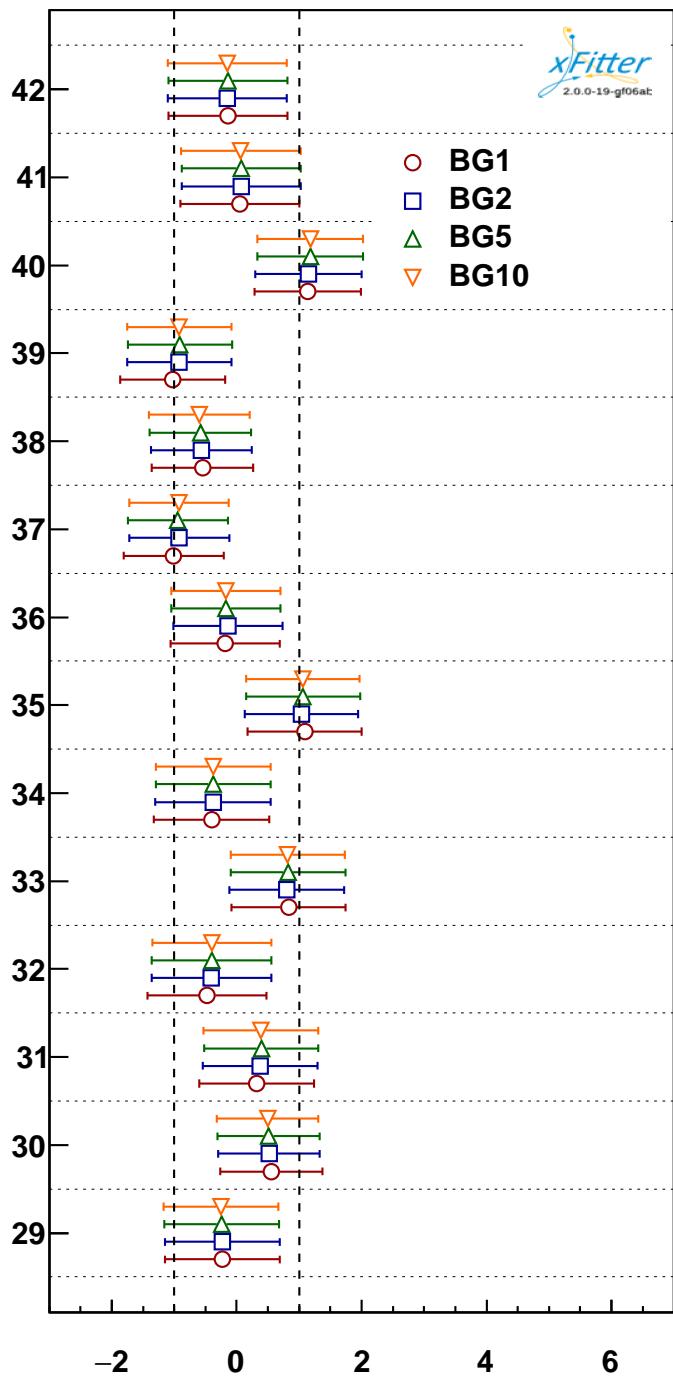




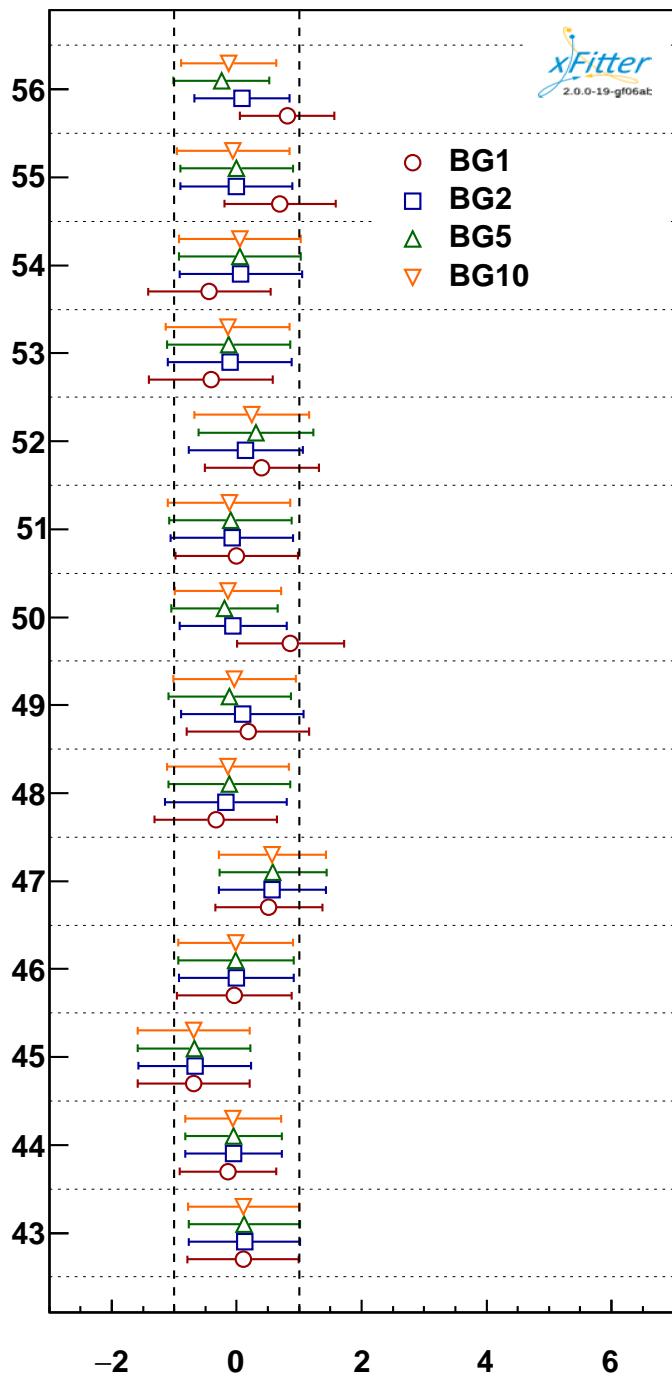
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- 13 HERA_Charm_Source_08
- 12 HERA_Charm_Source_07
- 11 HERA_Charm_Source_06
- 10 HERA_Charm_Source_05
- 9 HERA_Charm_Source_04
- 8 HERA_Charm_Source_03
- 7 HERA_Charm_Source_02
- 6 HERA_Charm_Source_01
- 5 HERA_Charm_Proced_02
- 4 HERA_Charm_Proced_01
- 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_Chang_Source_37
- 41 HERA_Chang_Source_36
- 40 HERA_Chang_Source_35
- 39 HERA_Chang_Source_34
- 38 HERA_Chang_Source_33
- 37 HERA_Chang_Source_32
- 36 HERA_Chang_Source_31
- 35 HERA_Chang_Source_30
- 34 HERA_Chang_Source_29
- 33 HERA_Chang_Source_28
- 32 HERA_Chang_Source_27
- 31 HERA_Chang_Source_26
- 30 HERA_Chang_Source_25
- 29 HERA_Chang_Source_24



56 mulB

55 hadE

54 gp

53 fragc

52 fragb

51 etac

50 etab

49 dF2

48 cjc

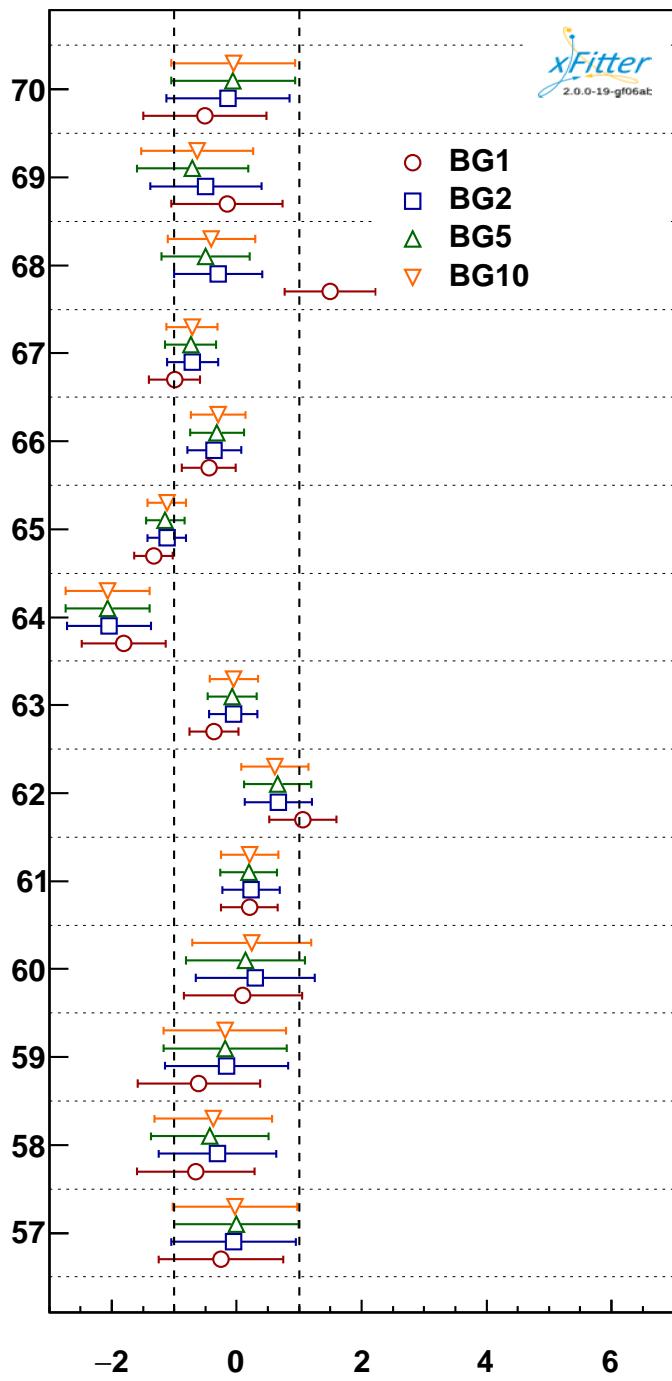
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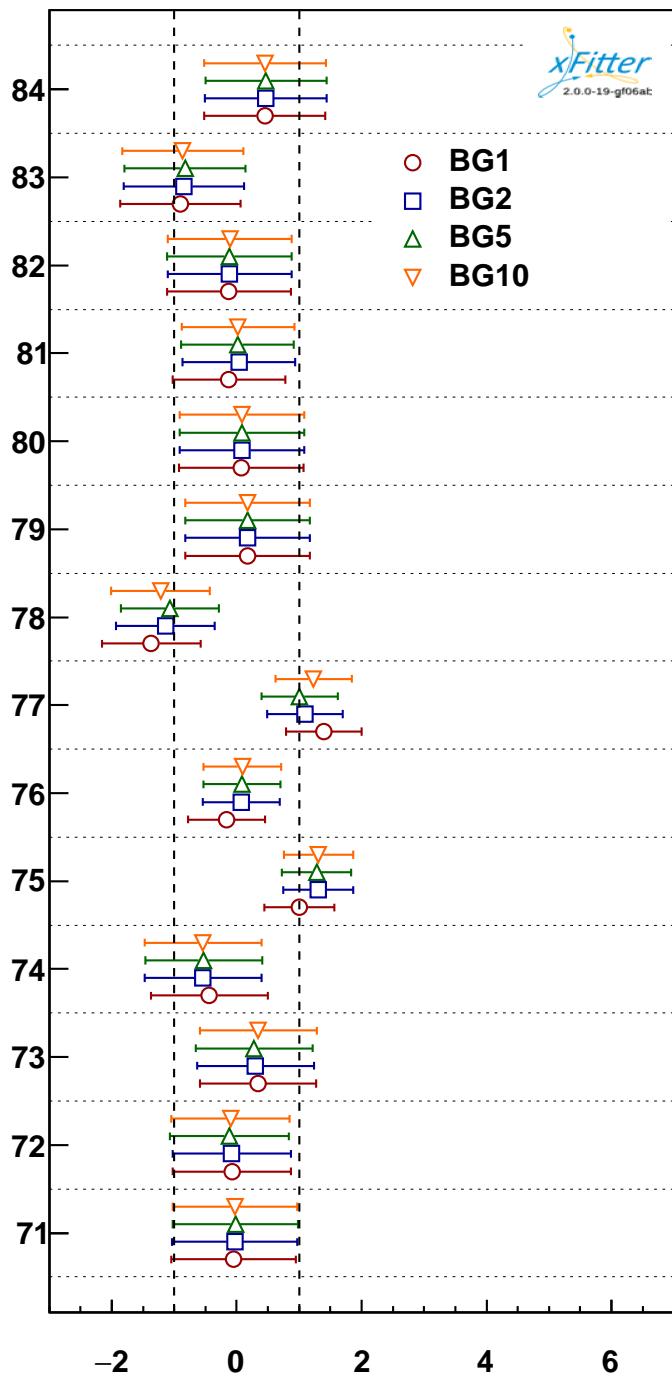
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44 HERA_Chang_Source_39

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

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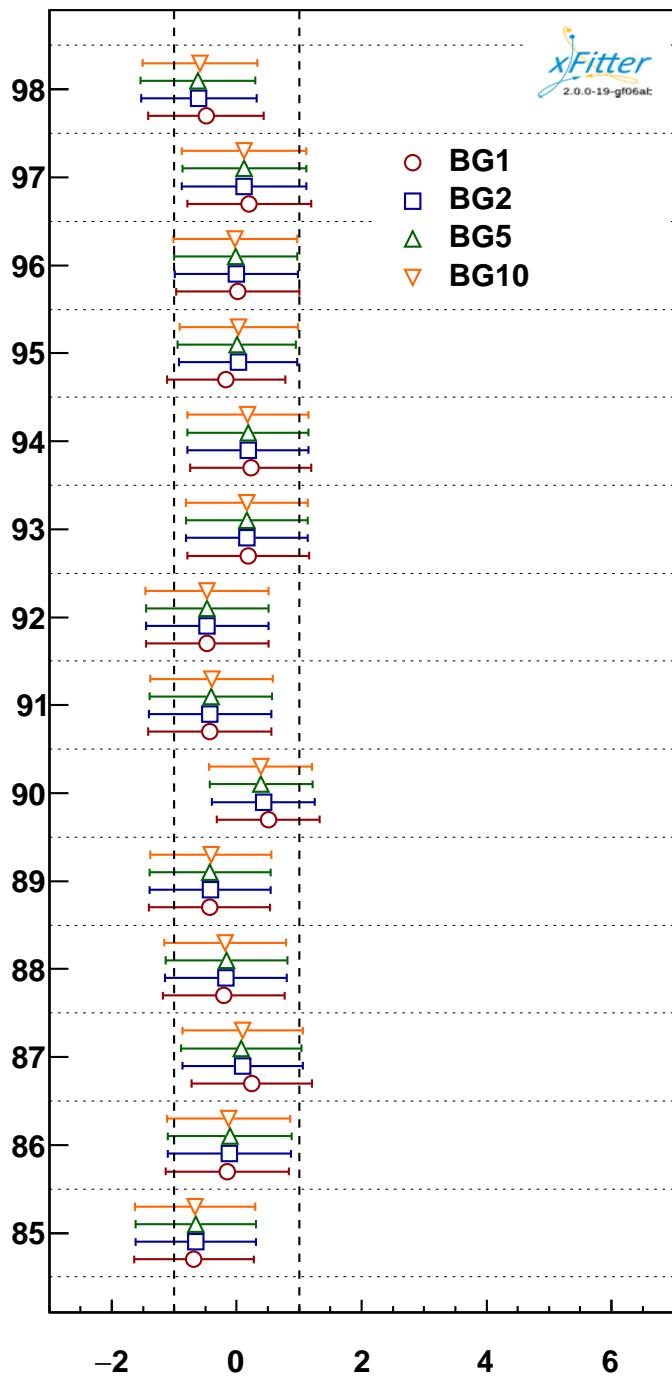
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73 sysHZComb1001

72 res

71 q2c



98 sysHZComb1026

97 sysHZComb1025

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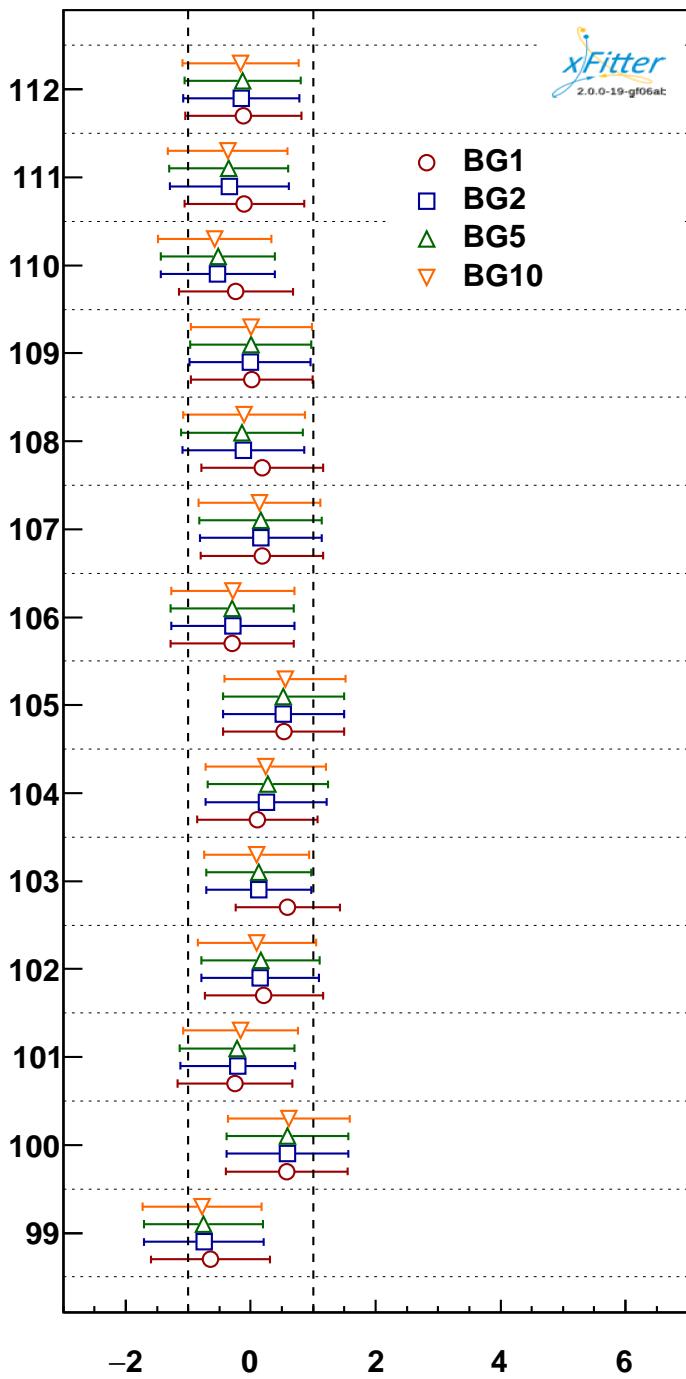
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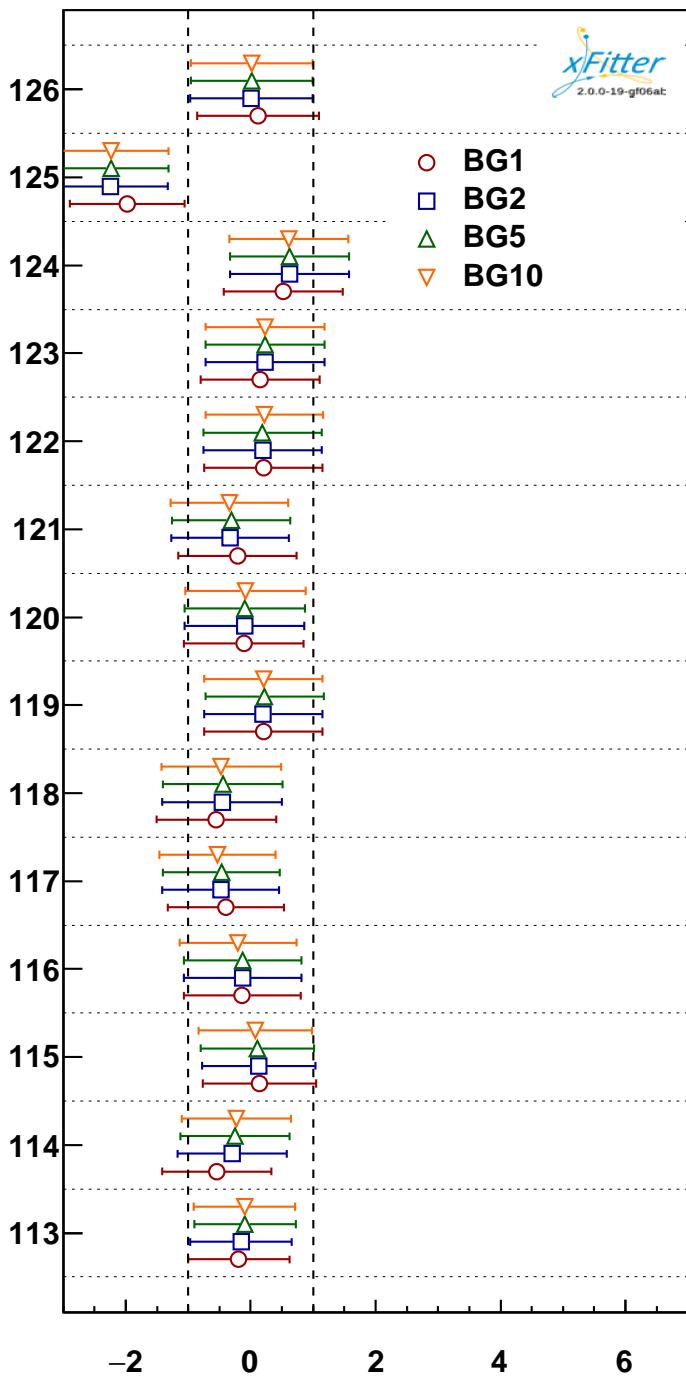
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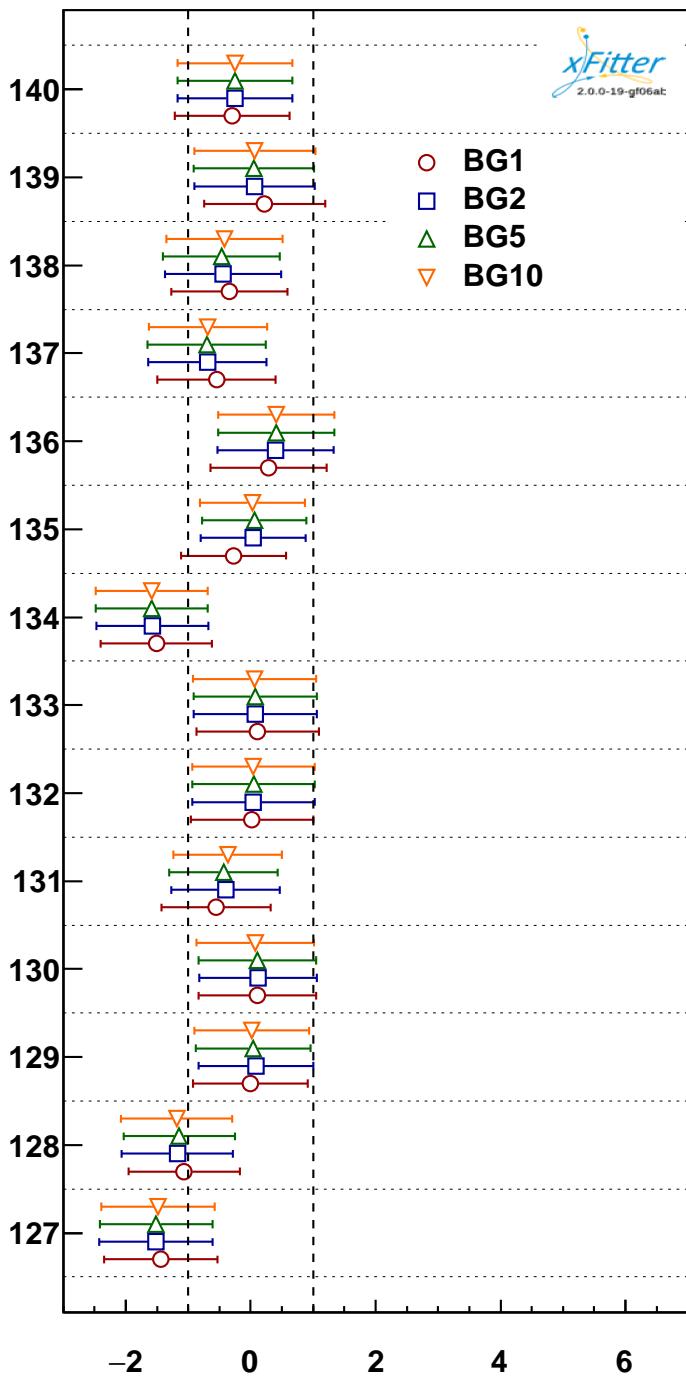
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112 sysHZComb1040
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110 sysHZComb1038
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106 sysHZComb1034
105 sysHZComb1033
104 sysHZComb1032
103 sysHZComb1031
102 sysHZComb1030
101 sysHZComb1029
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



140 sysHZComb1068

139 sysHZComb1067

138 sysHZComb1066

137 sysHZComb1065

136 sysHZComb1064

135 sysHZComb1063

134 sysHZComb1062

133 sysHZComb1061

132 sysHZComb1060

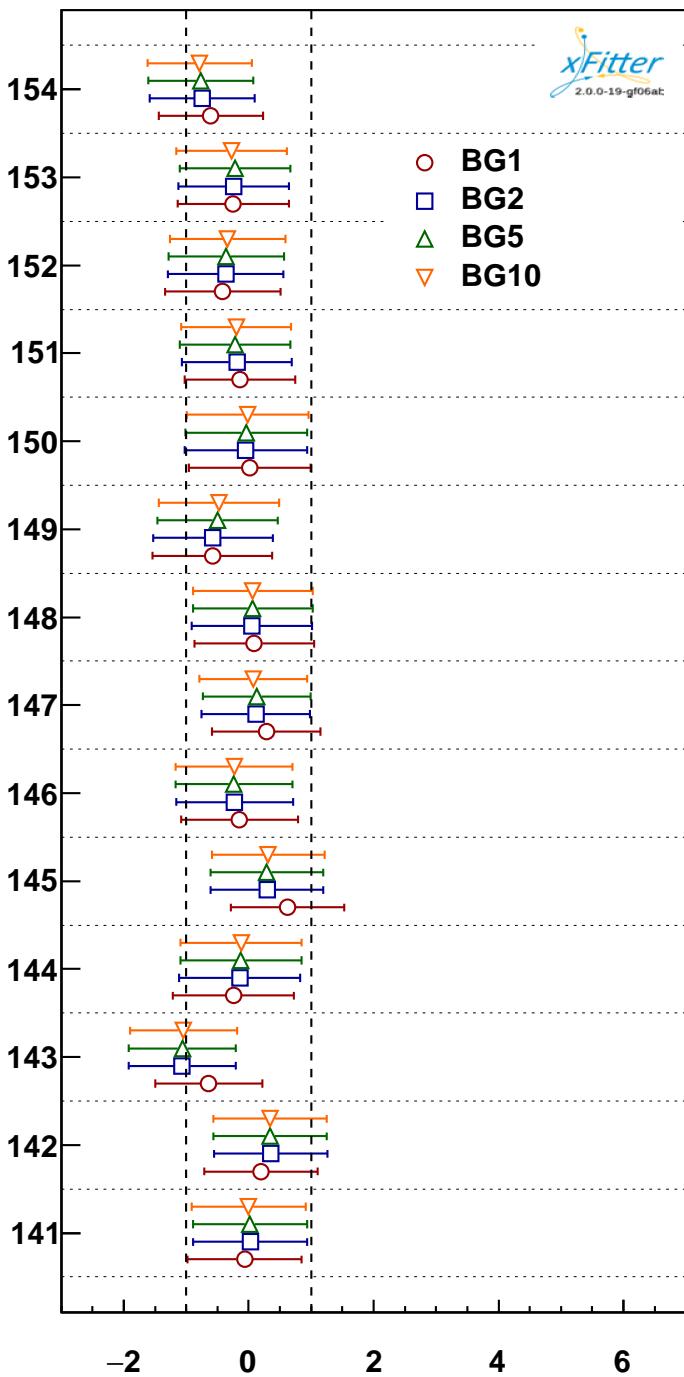
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129 sysHZComb1057

128 sysHZComb1056

127 sysHZComb1055



154 sysHZComb1082

153 sysHZComb1081

152 sysHZComb1080

151 sysHZComb1079

150 sysHZComb1078

149 sysHZComb1077

148 sysHZComb1076

147 sysHZComb1075

146 sysHZComb1074

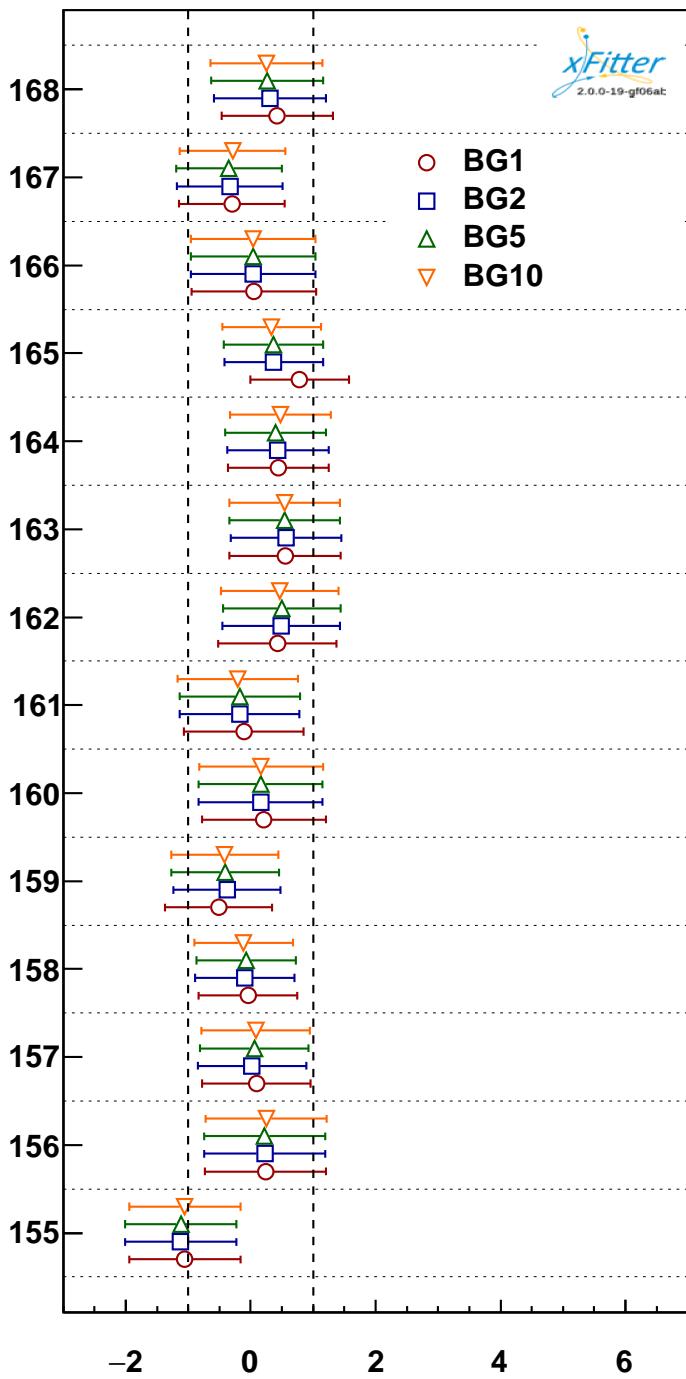
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141 sysHZComb1069



168 sysHZComb1096

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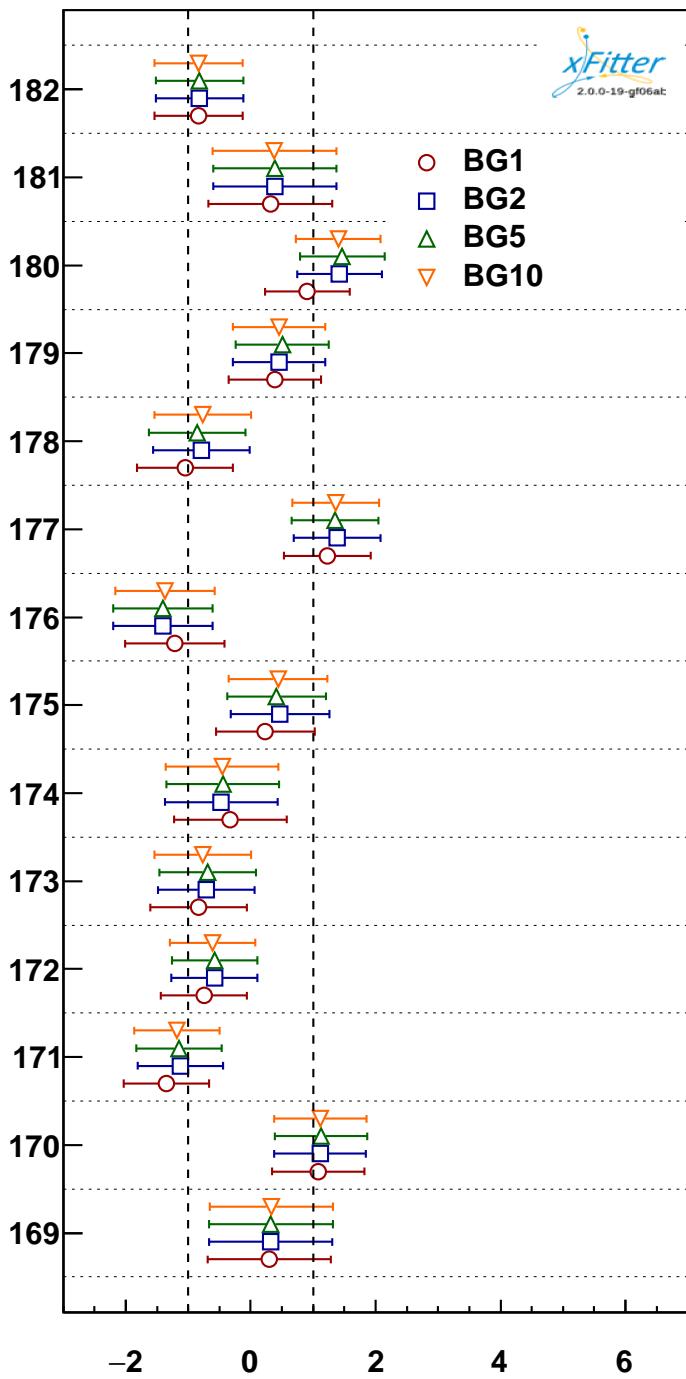
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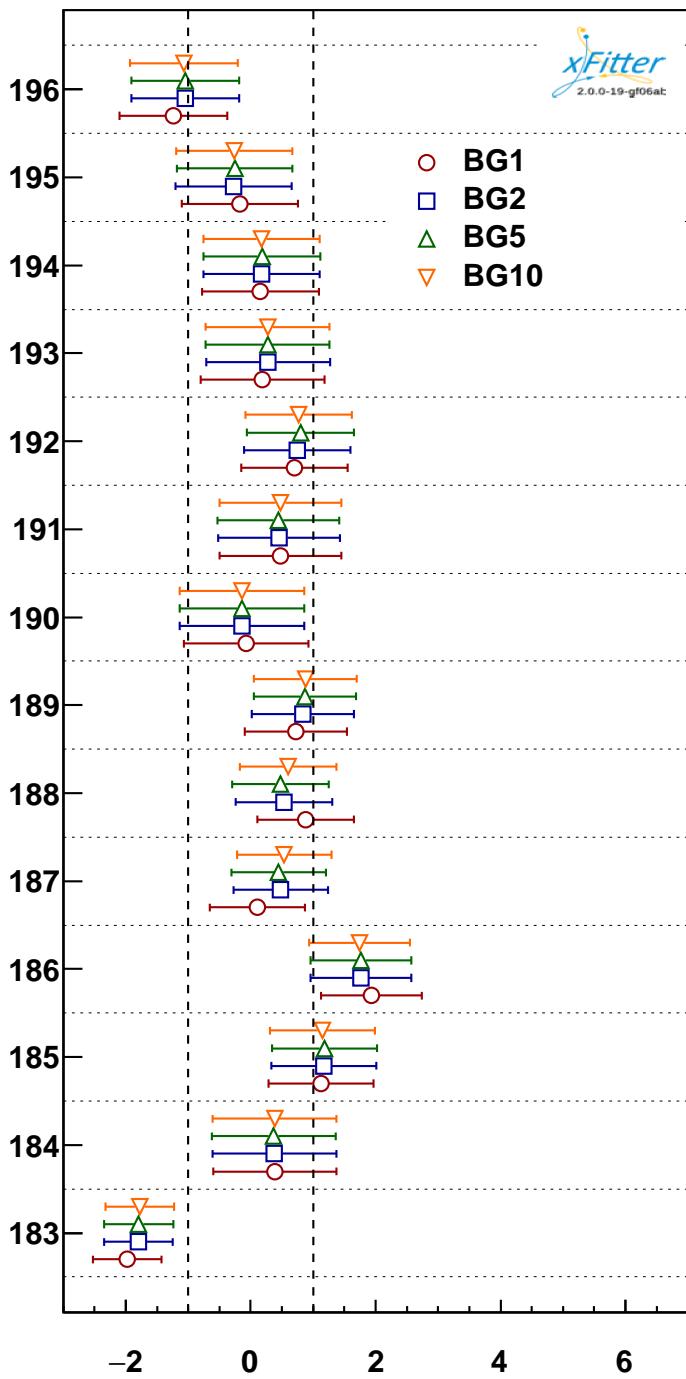
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156 sysHZComb1084

155 sysHZComb1083



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



196 sysHZComb1124

195 sysHZComb1123

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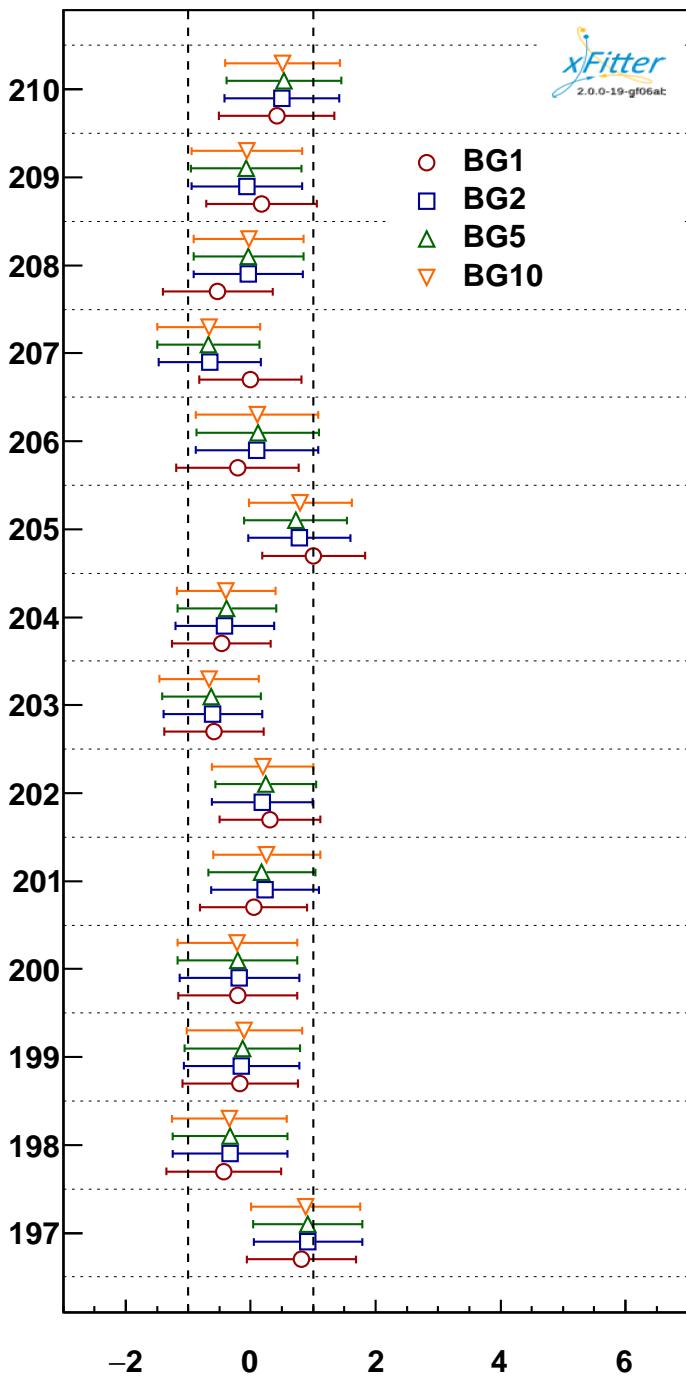
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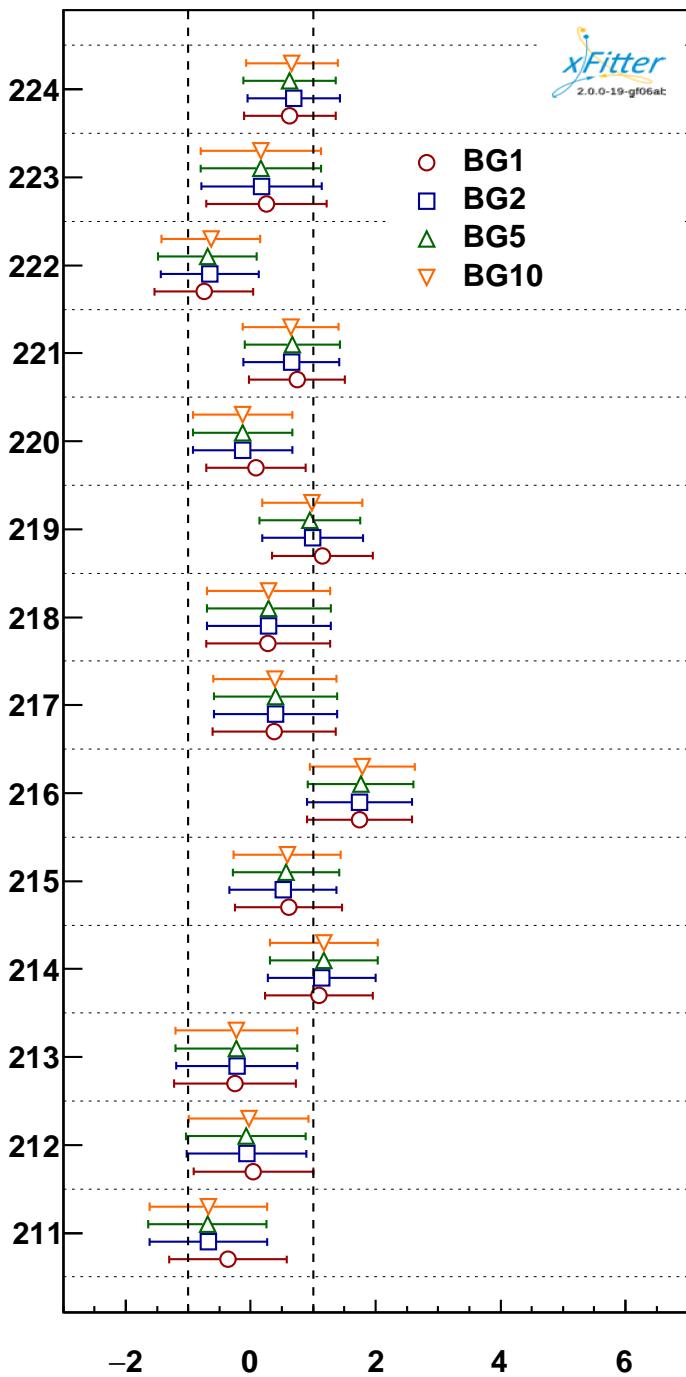
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183 sysHZComb1111



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199 sysHZComb1127
198 sysHZComb1126
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224 sysHZComb1152

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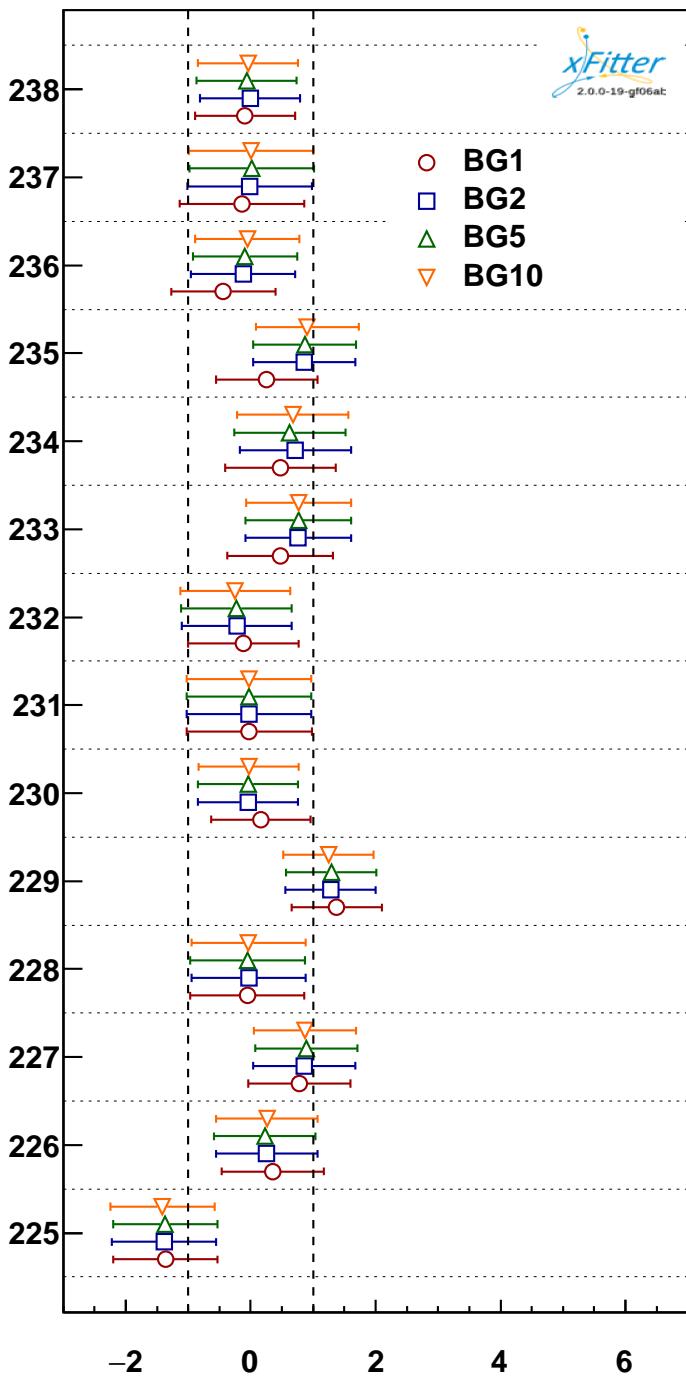
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238 zbv_MCmodelenjetb

237 xc

236 xb

235 uds

234 sysHZComb1162

233 sysHZComb1161

232 sysHZComb1160

231 sysHZComb1159

230 sysHZComb1158

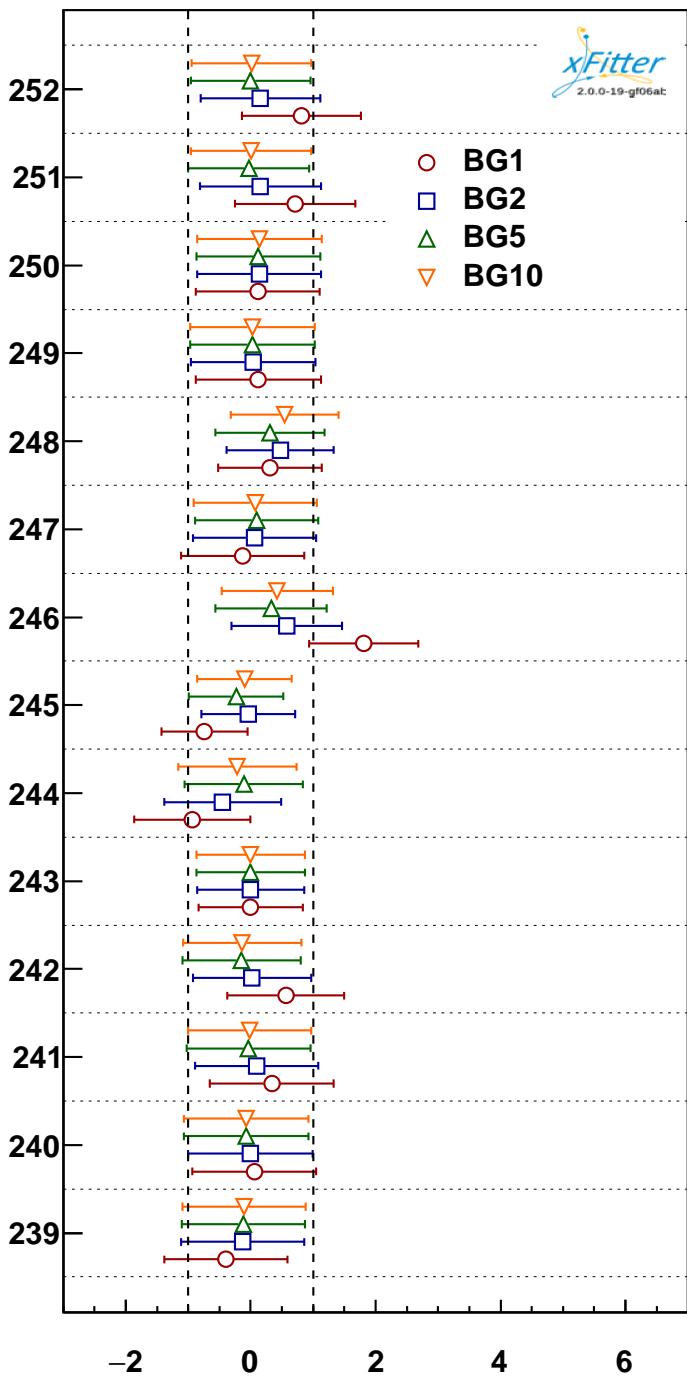
229 sysHZComb1157

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	BG1	BG2	BG5	BG10
Beauty cross section ZEUS Vertex	41 / 17	12 / 17	12 / 17	12 / 17
Charm cross section H1-ZEUS combined	46 / 47	46 / 47	46 / 47	46 / 47
HERA1+2 CCep	44 / 39	44 / 39	44 / 39	44 / 39
HERA1+2 CCem	52 / 42	52 / 42	53 / 42	53 / 42
HERA1+2 NCem	224 / 159	222 / 159	221 / 159	219 / 159
HERA1+2 NCep 820	67 / 70	66 / 70	66 / 70	65 / 70
HERA1+2 NCep 920	418 / 377	412 / 377	411 / 377	413 / 377
HERA1+2 NCep 460	223 / 204	220 / 204	221 / 204	219 / 204
HERA1+2 NCep 575	218 / 254	217 / 254	216 / 254	216 / 254
H1 F2 Beauty Vertex	84 / 12	3.4 / 12	3.4 / 12	3.2 / 12
Correlated χ^2	100	86	86	87
Log penalty χ^2	+7.1	+5.4	+3.2	+7.3
Total χ^2 / dof	1523 / 1207	1387 / 1207	1382 / 1207	1384 / 1207
χ^2 p-value	0.00	0.00	0.00	0.00

Parameter	BG1	BG2	BG5	BG10
'Bg'	-0.119 ± 0.016	0.091 ± 0.029	0.175 ± 0.034	0.02 ± 0.64
'Cg'	8.02 ± 0.29	8.52 ± 0.40	8.58 ± 0.45	8.5 ± 1.5
'Aprig'	0.957 ± 0.086	0.55 ± 0.14	0.23 ± 0.11	1.2 ± 3.0
'Bprig'	-0.266 ± 0.010	-0.158 ± 0.031	-0.183 ± 0.057	-0.13 ± 0.23
'Cprig'	25.00	25.00	25.00	25.00
'Buv'	0.700 ± 0.015	0.711 ± 0.016	0.716 ± 0.017	0.721 ± 0.053
'Cuv'	4.782 ± 0.058	4.740 ± 0.060	4.736 ± 0.060	4.73 ± 0.11
'Euv'	15.0 ± 1.0	14.0 ± 1.0	13.8 ± 1.0	13.6 ± 3.4
'Bdv'	0.781 ± 0.050	0.810 ± 0.056	0.829 ± 0.058	0.82 ± 0.11
'Cdv'	3.98 ± 0.26	3.99 ± 0.27	4.03 ± 0.27	4.03 ± 0.44
'CUbar'	8.39 ± 0.40	7.86 ± 0.44	7.74 ± 0.45	7.82 ± 0.82
'DUbar'	17.8 ± 1.7	13.3 ± 1.6	12.7 ± 1.6	13.2 ± 3.7
'ADbar'	0.1447 ± 0.0060	0.1631 ± 0.0072	0.1632 ± 0.0073	0.162 ± 0.013
'BDbar'	-0.1843 ± 0.0051	-0.1676 ± 0.0056	-0.1679 ± 0.0056	-0.1688 ± 0.0094
'CDbar'	3.29 ± 0.56	4.24 ± 0.75	4.72 ± 0.87	4.3 ± 1.5
'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	not-a-fit	converged
Uncertainties	not-a-fit	not-a-fit	not-a-fit	migrad-hesse