Upper left panel: $Q^2 = 1.9$ GeV$^2$; HERAPDF; CTEQ14NLO. Vertical axis: $xU(x,Q^2)/xU(x,Q^2)_{ref}$. Horizontal axis: $x$.

Upper right panel: $Q^2 = 1.9$ GeV$^2$; HERAPDF; CTEQ14NLO. Vertical axis: $xD(x,Q^2)/xD(x,Q^2)_{ref}$. Horizontal axis: $x$.

Lower left panel: $Q^2 = 1.9$ GeV$^2$; HERAPDF; CTEQ14NLO. Vertical axis: $x\overline{U}(x,Q^2)/x\overline{U}(x,Q^2)_{ref}$. Horizontal axis: $x$.

Lower right panel: $Q^2 = 1.9$ GeV$^2$; HERAPDF; CTEQ14NLO. Vertical axis: $x\overline{D}(x,Q^2)/x\overline{D}(x,Q^2)_{ref}$. Horizontal axis: $x$.

Top-left panel:
$e^-p \rightarrow \nu X$ (CC)

HERA1+2 Data $Q^2 = 5000$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

$d^2\sigma/dxdQ^2$

Theory/Data

Top-right panel:
$e^-p \rightarrow \nu X$ (CC)

HERA1+2 Data $Q^2 = 8000$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

$d^2\sigma/dxdQ^2$

Theory/Data

Bottom-left panel:
$e^-p \rightarrow \nu X$ (CC)

HERA1+2 Data $Q^2 = 15000$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

$d^2\sigma/dxdQ^2$

Theory/Data

Bottom-right panel:
$e^-p \rightarrow \nu X$ (CC)

HERA1+2 Data $Q^2 = 30000$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

$d^2\sigma/dxdQ^2$

Theory/Data

x

Top-left panel: $\sigma_{red}$ versus $x$. Label: $e^-p \rightarrow e^-X$ (NC). Legend: HERA1+2 Data $Q^2 = 60$; $\delta$ uncorrelated; $\delta$ total; Theory + shifts; HERAPDF; CTEQ14NLO. Lower sub-panel: Theory/Data. $x$ axis marked at 0.0008.

Top-right panel: $\sigma_{red}$ versus $x$. Label: $e^-p \rightarrow e^-X$ (NC). Legend: HERA1+2 Data $Q^2 = 90$; $\delta$ uncorrelated; $\delta$ total; Theory + shifts; HERAPDF; CTEQ14NLO. Lower sub-panel: Theory/Data. $x$ axis marked at 0.002.

Bottom-left panel: $\sigma_{red}$ versus $x$. Label: $e^-p \rightarrow e^-X$ (NC). Legend: HERA1+2 Data $Q^2 = 120$; $\delta$ uncorrelated; $\delta$ total; Theory + shifts; HERAPDF; CTEQ14NLO. Lower sub-panel: Theory/Data. $x$ axis marked at 0.002 and 0.003.

Bottom-right panel: $\sigma_{red}$ versus $x$. Label: $e^-p \rightarrow e^-X$ (NC). Legend: HERA1+2 Data $Q^2 = 150$; $\delta$ uncorrelated; $\delta$ total; Theory + shifts; HERAPDF; CTEQ14NLO. Lower sub-panel: Theory/Data. $x$ axis marked at 0.002, 0.003, 0.01.

Top left panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV; HERA1+2 Data $Q^2 = 35$; $\delta$ uncorrelated; $\delta$ total; HERAPDF; Theory + shifts; CTEQ14NLO. Axes: $\sigma_{red}$ vs $x$, with Theory/Data ratio panel below.

Top right panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV; HERA1+2 Data $Q^2 = 45$; $\delta$ uncorrelated; $\delta$ total; HERAPDF; Theory + shifts; CTEQ14NLO. Axes: $\sigma_{red}$ vs $x$, with Theory/Data ratio panel below.

Bottom left panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV; HERA1+2 Data $Q^2 = 60$; $\delta$ uncorrelated; $\delta$ total; HERAPDF; Theory + shifts; CTEQ14NLO. Axes: $\sigma_{red}$ vs $x$, with Theory/Data ratio panel below.

Bottom right panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV; HERA1+2 Data $Q^2 = 70$; $\delta$ uncorrelated; $\delta$ total; HERAPDF; Theory + shifts; CTEQ14NLO. Axes: $\sigma_{red}$ vs $x$, with Theory/Data ratio panel below.

Top-left panel: $\sigma_{red}$ vs $x$. $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. HERA1+2 Data $Q^2 = 650$. $\delta$ uncorrelated, $\delta$ total, HERAPDF, Theory + shifts, CTEQ14NLO. Theory/Data panel.

Top-right panel: $\sigma_{red}$ vs $x$. $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. HERA1+2 Data $Q^2 = 800$. $\delta$ uncorrelated, $\delta$ total, HERAPDF, Theory + shifts, CTEQ14NLO. Theory/Data panel.

Bottom-left panel: $\sigma_{red}$ vs $x$. $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. HERA1+2 Data $Q^2 = 1000$. $\delta$ uncorrelated, $\delta$ total, HERAPDF, Theory + shifts, CTEQ14NLO. Theory/Data panel.

Bottom-right panel: $\sigma_{red}$ vs $x$. $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. HERA1+2 Data $Q^2 = 1200$. $\delta$ uncorrelated, $\delta$ total, HERAPDF, Theory + shifts, CTEQ14NLO. Theory/Data panel.

Top-left panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 8000$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Theory/Data panel below.

Top-right panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 12000$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Theory/Data panel below.

Bottom-left panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 20000$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Theory/Data panel below.

Bottom-right panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 820$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 30000$, $\delta$ uncorrelated, $\delta$ total, HERAPDF, CTEQ14NLO. Theory/Data panel below.

Figure showing reduced cross section $\sigma_{red}$ versus $x$ for the process $e^+p \rightarrow e^+X$ (NC) at four values of $Q^2$: $Q^2 = 10$, $Q^2 = 12$, $Q^2 = 15$, and $Q^2 = 18$. Each panel compares HERA1+2 Data with HERAPDF, CTEQ14NLO, and Theory + shifts predictions, with $\delta$ uncorrelated and $\delta$ total uncertainties. Lower panels show Theory/Data ratios.

Figure showing reduced cross section $\sigma_{red}$ versus $x$ for $e^+p \rightarrow e^+X$ (NC) at $Q^2 = 22$, $Q^2 = 27$, $Q^2 = 35$, and $Q^2 = 45$, comparing HERA1+2 Data, HERAPDF, and CTEQ14NLO.

Figure showing $e^+p \to e^+X$ (NC) reduced cross sections $\sigma_{red}$ as a function of $x$ for four $Q^2$ values (150, 200, 250, 300), comparing HERA1+2 Data with HERAPDF, Theory + shifts, and CTEQ14NLO predictions. Each panel includes a Theory/Data ratio subplot with $\delta$ uncorrelated, $\delta$ total, and model curves.

Top-left panel: $e^+p \rightarrow e^+X$ (NC), HERA1+2 Data $Q^2 = 1000$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Axes: $\sigma_{red}$ vs $x$; lower panel Theory/Data.

Top-right panel: $e^+p \rightarrow e^+X$ (NC), HERA1+2 Data $Q^2 = 1200$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO.

Bottom-left panel: $e^+p \rightarrow e^+X$ (NC), HERA1+2 Data $Q^2 = 1500$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO.

Bottom-right panel: $e^+p \rightarrow e^+X$ (NC), HERA1+2 Data $Q^2 = 2000$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO.

Top-left panel:
$\sigma_{red}$ (y-axis)
$e^+p \rightarrow e^+X$ (NC)
HERA1+2 Data $Q^2 = 20000$
δ uncorrelated
δ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data (lower y-axis)
x (x-axis)

Top-right panel:
$\sigma_{red}$ (y-axis)
$e^+p \rightarrow e^+X$ (NC)
HERA1+2 Data $Q^2 = 30000$
δ uncorrelated
δ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data (lower y-axis)
x (x-axis)

Bottom-left panel:
$\sigma_{red}$ (y-axis)
$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV
HERA1+2 Data $Q^2 = 3.5$
δ uncorrelated
δ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data (lower y-axis)
x (x-axis)

Bottom-right panel:
$\sigma_{red}$ (y-axis)
$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV
HERA1+2 Data $Q^2 = 5$
δ uncorrelated
δ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data (lower y-axis)
x (x-axis)

Figure showing reduced cross section $\sigma_{red}$ for $e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV, at $Q^2 = 6.5$, $8.5$, $12$, and $15$, comparing HERA1+2 Data with HERAPDF, Theory + shifts, and CTEQ14NLO predictions, with Theory/Data ratio panels below each.

Top-left panel:
$\sigma_{red}$

$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV

HERA1+2 Data $Q^2 = 20$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

Top-right panel:
$\sigma_{red}$

$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV

HERA1+2 Data $Q^2 = 25$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

Bottom-left panel:
$\sigma_{red}$

$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV

HERA1+2 Data $Q^2 = 35$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

Bottom-right panel:
$\sigma_{red}$

$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV

HERA1+2 Data $Q^2 = 45$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

Top-left panel:
$\sigma_{red}$ vs $x$
$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV
HERA1+2 Data $Q^2 = 60$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data

Top-right panel:
$\sigma_{red}$ vs $x$
$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV
HERA1+2 Data $Q^2 = 90$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data

Bottom-left panel:
$\sigma_{red}$ vs $x$
$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV
HERA1+2 Data $Q^2 = 120$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data

Bottom-right panel:
$\sigma_{red}$ vs $x$
$e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV
HERA1+2 Data $Q^2 = 150$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO
Theory/Data

Figure showing reduced cross section $\sigma_{red}$ versus $x$ for $e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV, at $Q^2 = 200, 250, 300, 400$. Each panel shows HERA1+2 Data with $\delta$ uncorrelated and $\delta$ total uncertainties, compared to HERAPDF, Theory + shifts, and CTEQ14NLO predictions, with Theory/Data ratio panels below.

Top-left panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 500$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Lower panel: Theory/Data.

Top-right panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 650$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Lower panel: Theory/Data.

Bottom-left panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 460$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 800$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Lower panel: Theory/Data.

Bottom-right panel: $e^+p \rightarrow e^+X$ (NC), $E_p = 575$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 3.5$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO. Lower panel: Theory/Data.

Top-left panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 5$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO.

Top-right panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 6.5$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO.

Bottom-left panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 8.5$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO.

Bottom-right panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV. $\sigma_{red}$ vs $x$. HERA1+2 Data $Q^2 = 12$, $\delta$ uncorrelated, $\delta$ total, Theory + shifts, HERAPDF, CTEQ14NLO.

Figure showing $e^+p \rightarrow e^+X$ (NC), $E_p = 575$ GeV. Four panels with reduced cross section $\sigma_{red}$ versus $x$ for $Q^2 = 45$, $60$, $90$, and $120$, comparing HERA1+2 Data ($\delta$ uncorrelated, $\delta$ total), HERAPDF, Theory + shifts, and CTEQ14NLO.

Upper left panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV
- HERA1+2 Data $Q^2 = 150$
- $\delta$ uncorrelated
- $\delta$ total
- Theory + shifts
- HERAPDF
- CTEQ14NLO

Upper right panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV
- HERA1+2 Data $Q^2 = 200$
- $\delta$ uncorrelated
- $\delta$ total
- Theory + shifts
- HERAPDF
- CTEQ14NLO

Lower left panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV
- HERA1+2 Data $Q^2 = 250$
- $\delta$ uncorrelated
- $\delta$ total
- Theory + shifts
- HERAPDF
- CTEQ14NLO

Lower right panel: $e^+p \to e^+X$ (NC), $E_p = 575$ GeV
- HERA1+2 Data $Q^2 = 300$
- $\delta$ uncorrelated
- $\delta$ total
- Theory + shifts
- HERAPDF
- CTEQ14NLO

Axis labels: $\sigma_{red}$, Theory/Data, $x$

Top-left panel:

$e^+p \rightarrow e^+X$ (NC), $E_p = 575$ GeV

$\sigma_{red}$

HERA1+2 Data $Q^2 = 400$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

Top-right panel:

$e^+p \rightarrow e^+X$ (NC), $E_p = 575$ GeV

$\sigma_{red}$

HERA1+2 Data $Q^2 = 500$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

Bottom-left panel:

$e^+p \rightarrow e^+X$ (NC), $E_p = 575$ GeV

$\sigma_{red}$

HERA1+2 Data $Q^2 = 650$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

Bottom-right panel:

$e^+p \rightarrow e^+X$ (NC), $E_p = 575$ GeV

$\sigma_{red}$

HERA1+2 Data $Q^2 = 800$
$\delta$ uncorrelated
$\delta$ total
Theory + shifts
HERAPDF
CTEQ14NLO

Theory/Data

x

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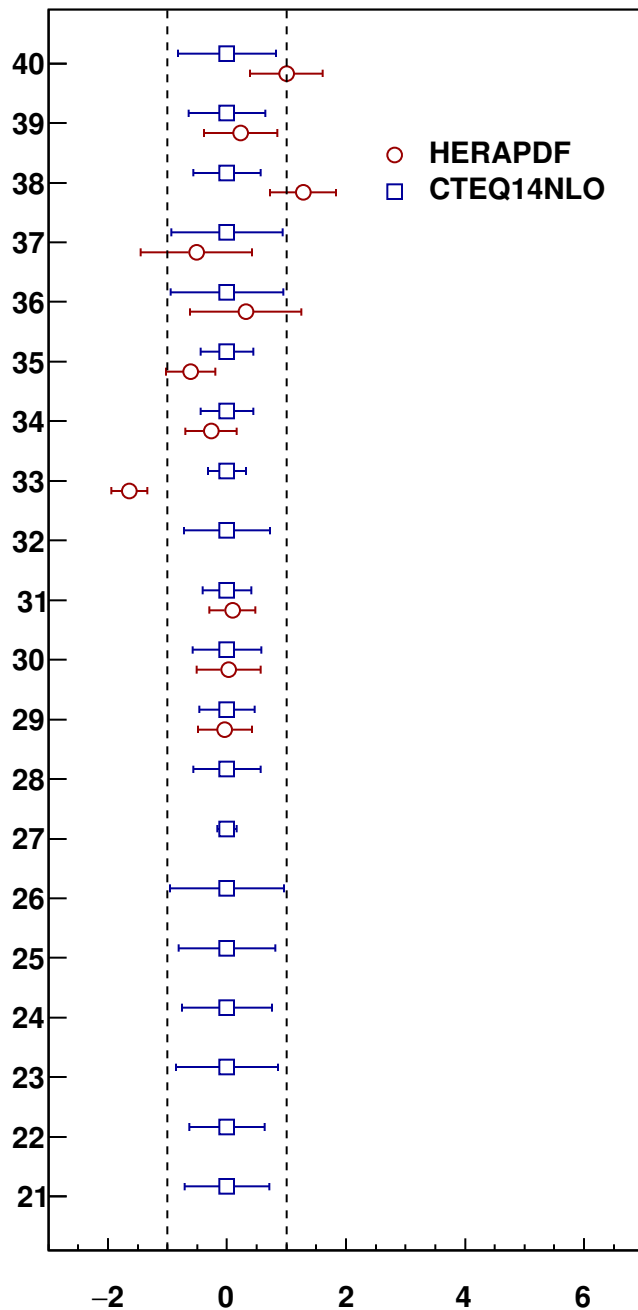
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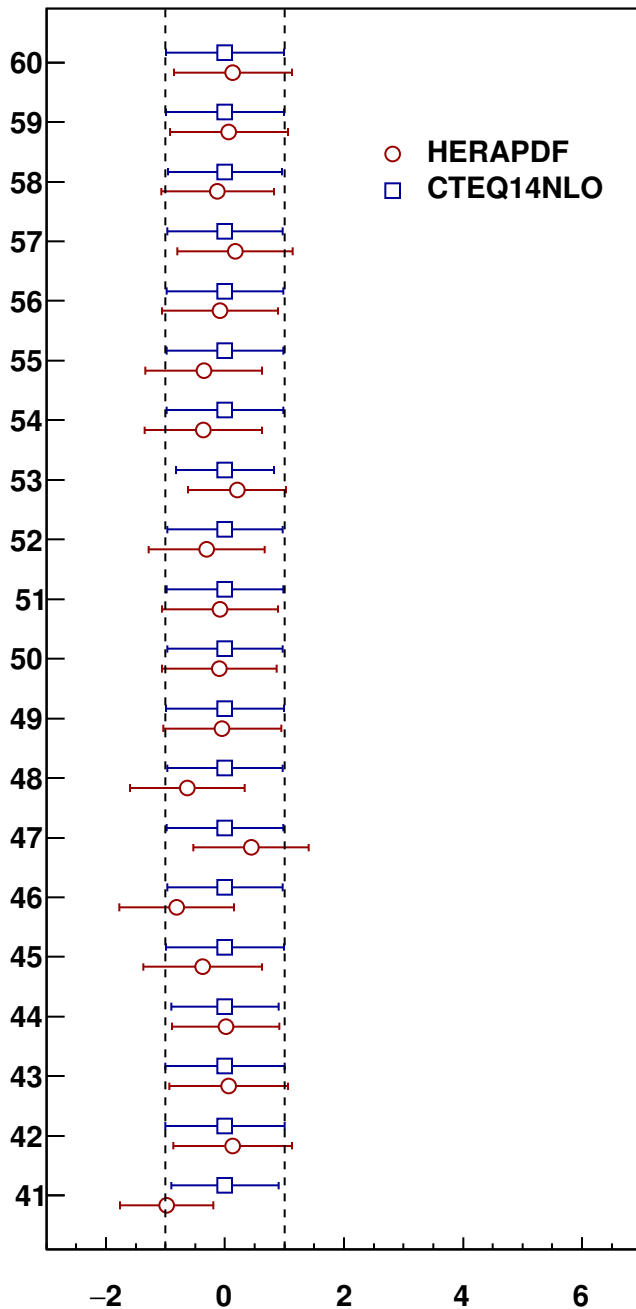
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| 52 | sysHZComb1017 |
| 51 | sysHZComb1016 |
| 50 | sysHZComb1015 |
| 49 | sysHZComb1014 |
| 48 | sysHZComb1013 |
| 47 | sysHZComb1012 |
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| 45 | sysHZComb1010 |
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Legend: HERAPDF, CTEQ14NLO
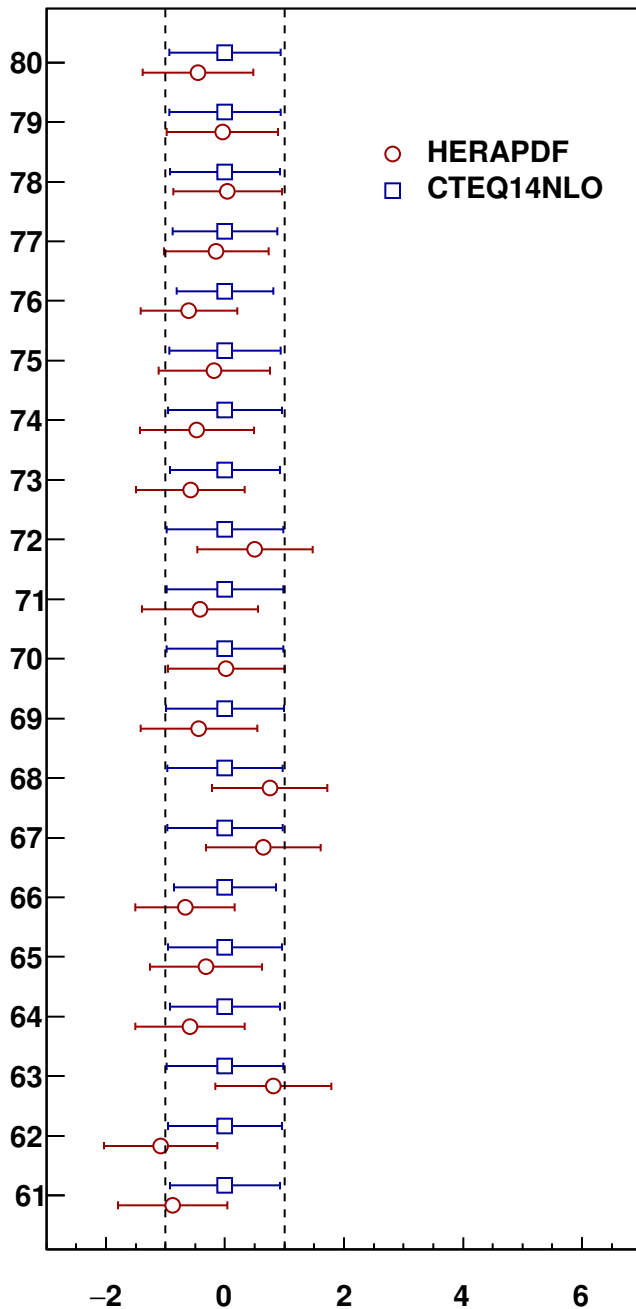
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Legend: ○ HERAPDF   □ CTEQ14NLO
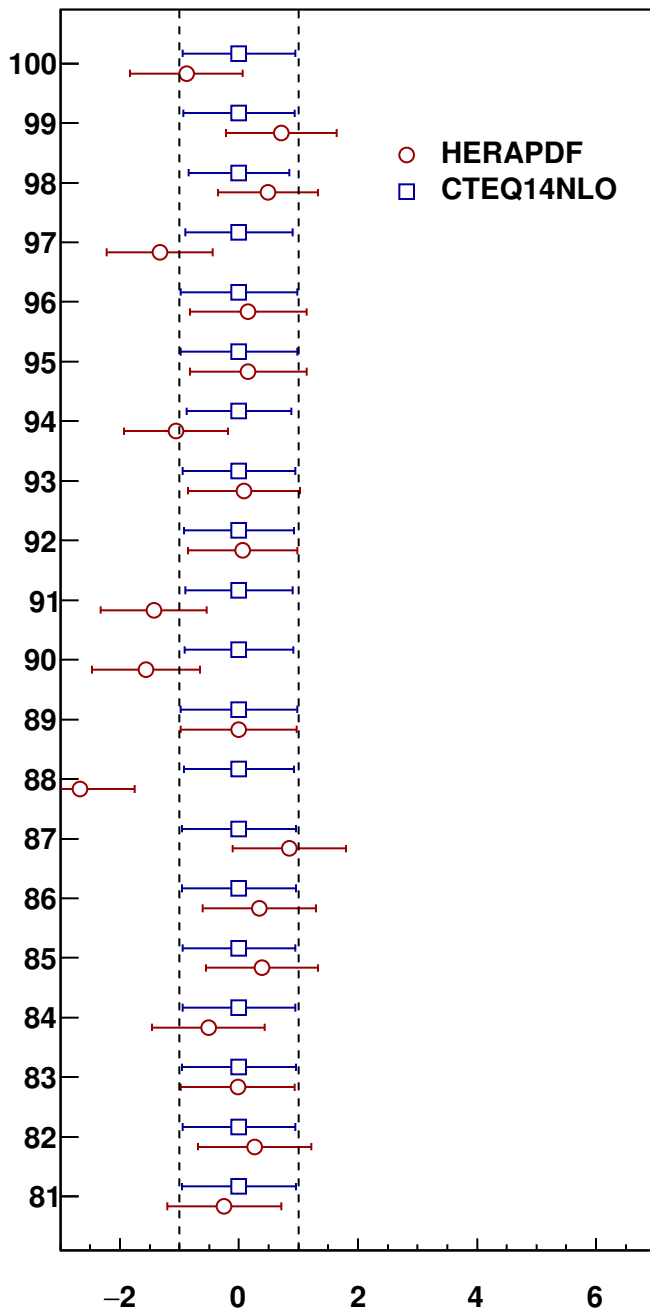
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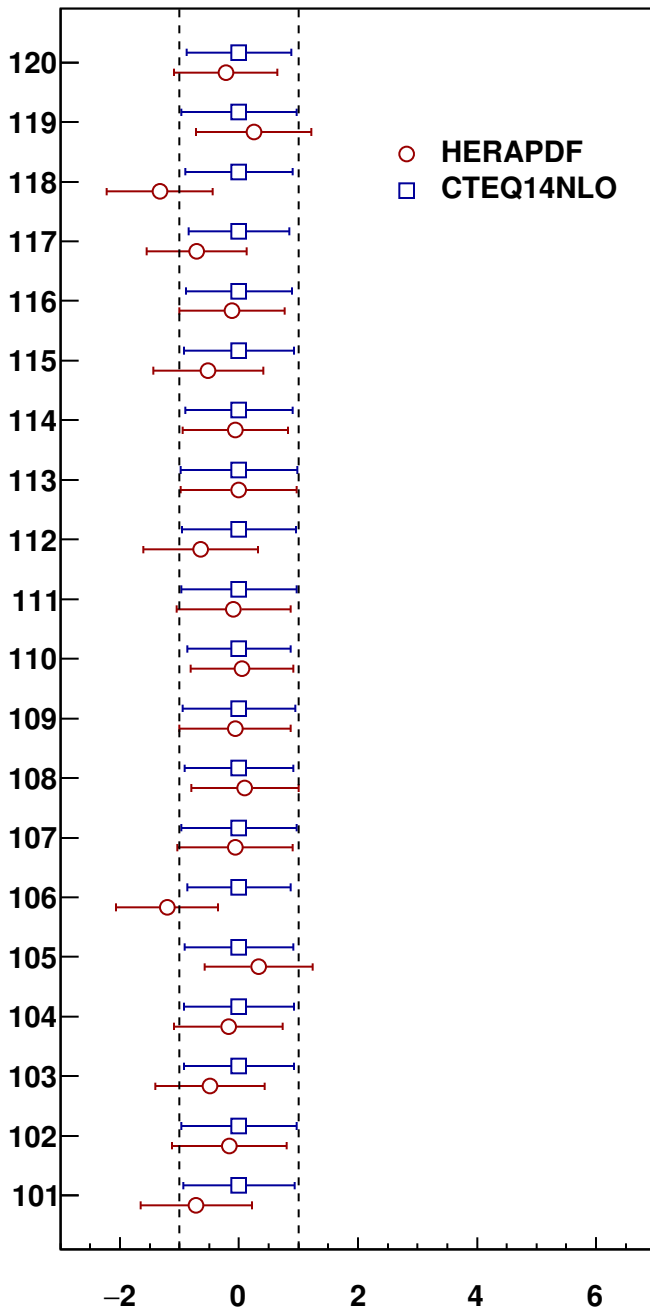
Legend: HERAPDF, CTEQ14NLO
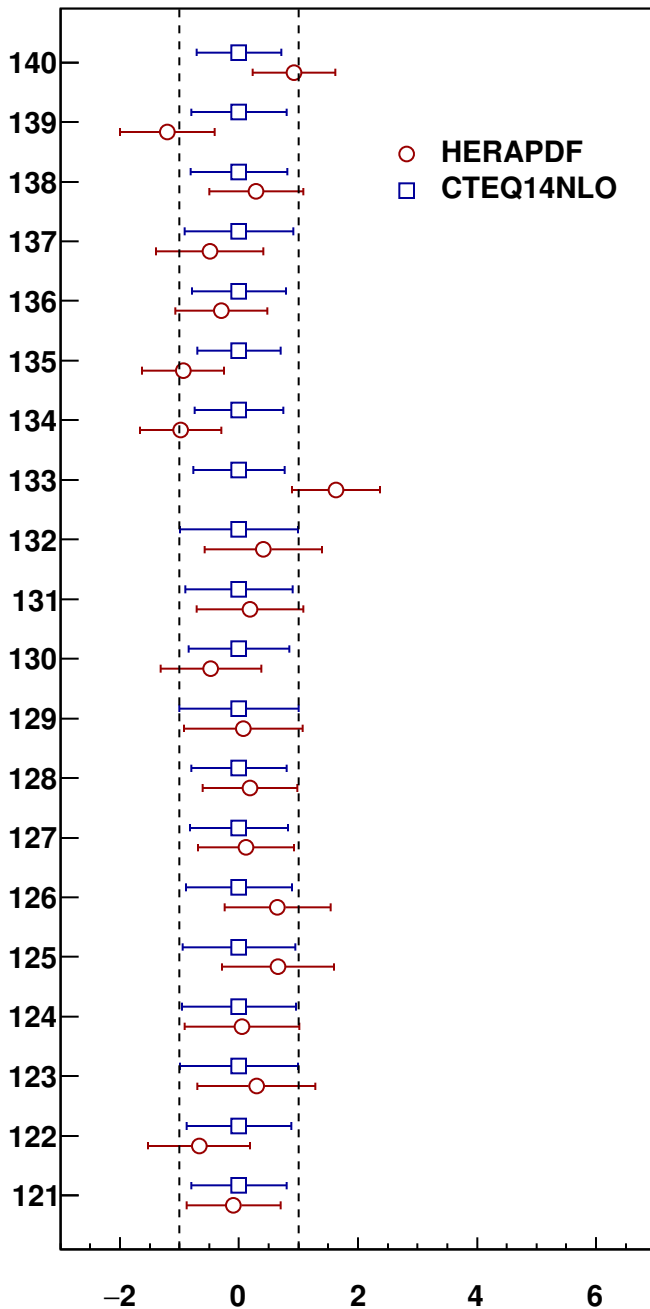
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HERAPDF

CTEQ14NLO
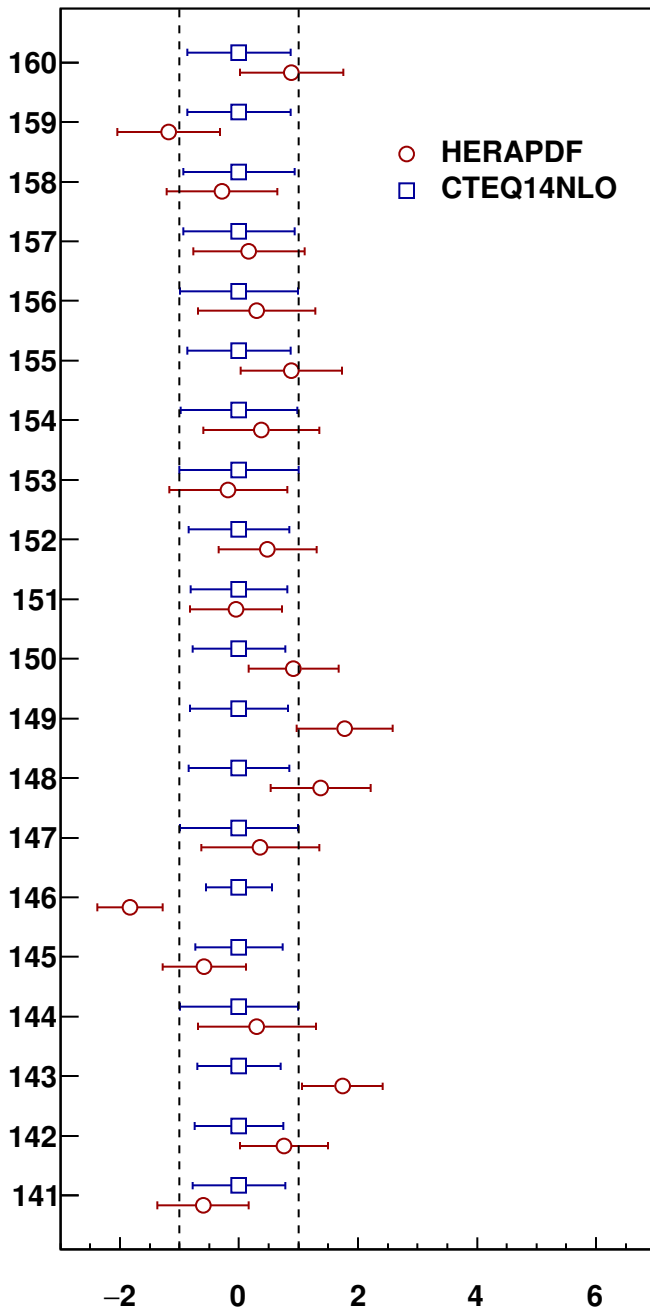
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| 168 | sysHZComb1133 | |
| 167 | sysHZComb1132 | |
| 166 | sysHZComb1131 | |
| 165 | sysHZComb1130 | |
| 164 | sysHZComb1129 | |
| 163 | sysHZComb1128 | |
| 162 | sysHZComb1127 | |
| 161 | sysHZComb1126 | |
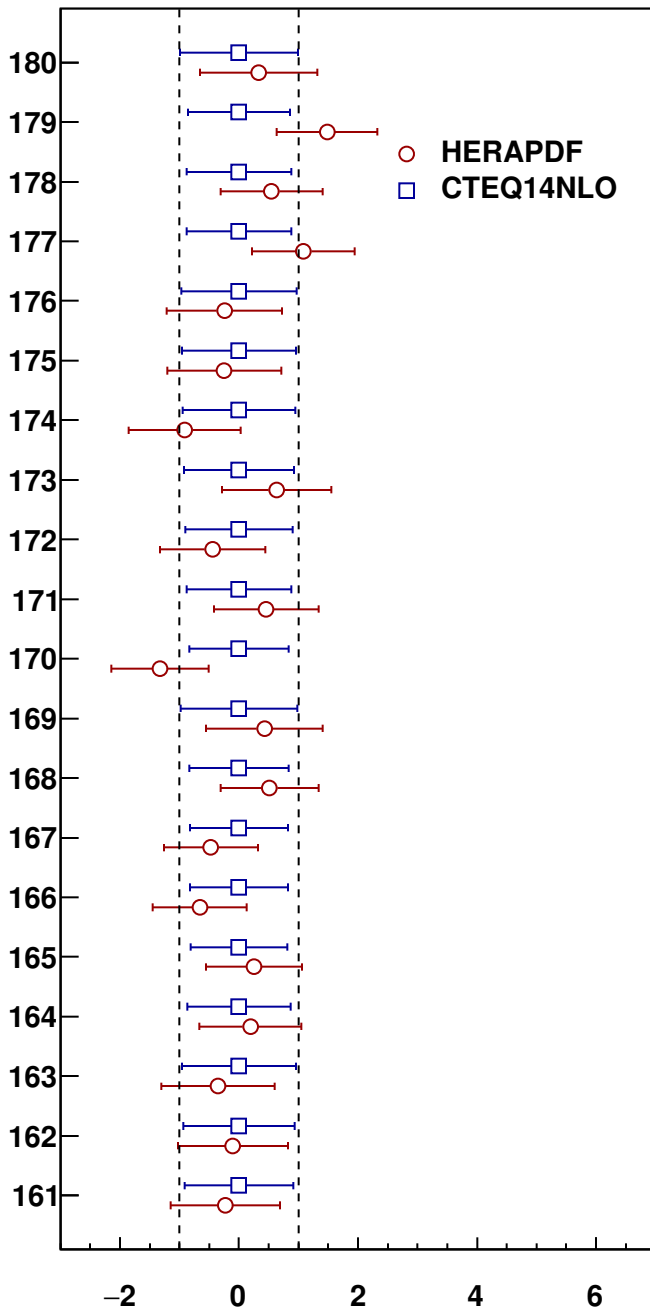
Legend: HERAPDF, CTEQ14NLO
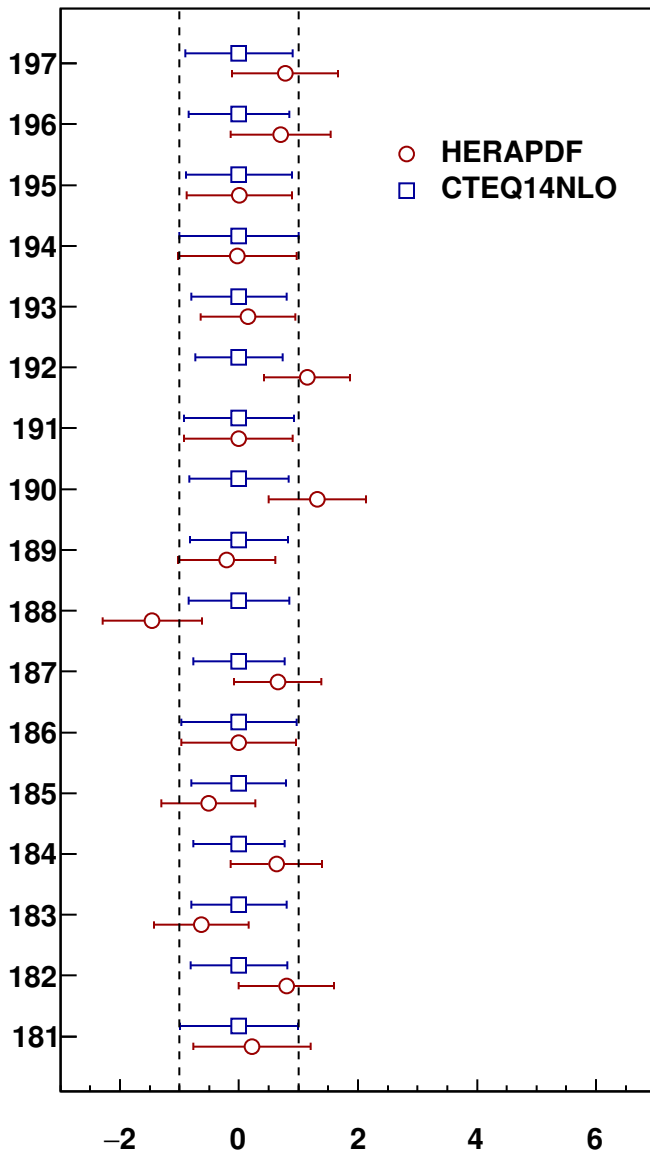
197  sysHZComb1162

196  sysHZComb1161

195  sysHZComb1160

194  sysHZComb1159

193  sysHZComb1158

192  sysHZComb1157

191  sysHZComb1156

190  sysHZComb1155

189  sysHZComb1154

188  sysHZComb1153

187  sysHZComb1152

186  sysHZComb1151

185  sysHZComb1150

184  sysHZComb1149

183  sysHZComb1148

182  sysHZComb1147

181  sysHZComb1146

| Dataset | HERAPDF | CTEQ14NLO |
|---|---|---|
| HERA1+2 CCep | 45 / 39 | 0 / 39 |
| HERA1+2 CCem | 56 / 42 | 0 / 42 |
| HERA1+2 NCem | 219 / 159 | 0 / 159 |
| HERA1+2 NCep 820 | 66 / 70 | 0 / 70 |
| HERA1+2 NCep 920 | 443 / 377 | 0 / 377 |
| HERA1+2 NCep 460 | 218 / 204 | 0 / 204 |
| HERA1+2 NCep 575 | 219 / 254 | 0 / 254 |
| Correlated $\chi^2$ | 92 | 0 |
| Log penalty $\chi^2$ | +5.9 | +0.00 |
| Total $\chi^2$ / dof | 1363 / 1131 | 0 / 1145 |
| $\chi^2$ p-value | 0.00 | 1.00 |

| Parameter | HERAPDF | CTEQ14NLO |
|---|---|---|
| 'Bg' | $-0.06 \pm 0.24$ | - |
| 'Cg' | $5.6 \pm 2.1$ | - |
| 'Aprig' | $0.17 \pm 0.21$ | - |
| 'Bprig' | $-0.383 \pm 0.017$ | - |
| 'Cprig' | 25.00 | - |
| 'Buv' | $0.811 \pm 0.040$ | - |
| 'Cuv' | $4.824 \pm 0.087$ | - |
| 'Euv' | $9.9 \pm 1.8$ | - |
| 'Bdv' | $1.030 \pm 0.088$ | - |
| 'Cdv' | $4.85 \pm 0.39$ | - |
| 'CUbar' | $7.1 \pm 2.2$ | - |
| 'DUbar' | $1.5 \pm 3.1$ | - |
| 'ADbar' | $0.269 \pm 0.020$ | - |
| 'BDbar' | $-0.127 \pm 0.011$ | - |
| 'CDbar' | $9.6 \pm 2.5$ | - |
| 'alphas' | 0.1180 | - |
| 'fs' | 0.4000 | - |
| Fit status | converged | not-a-fit |
| Uncertainties | migrad-hesse | not-a-fit |