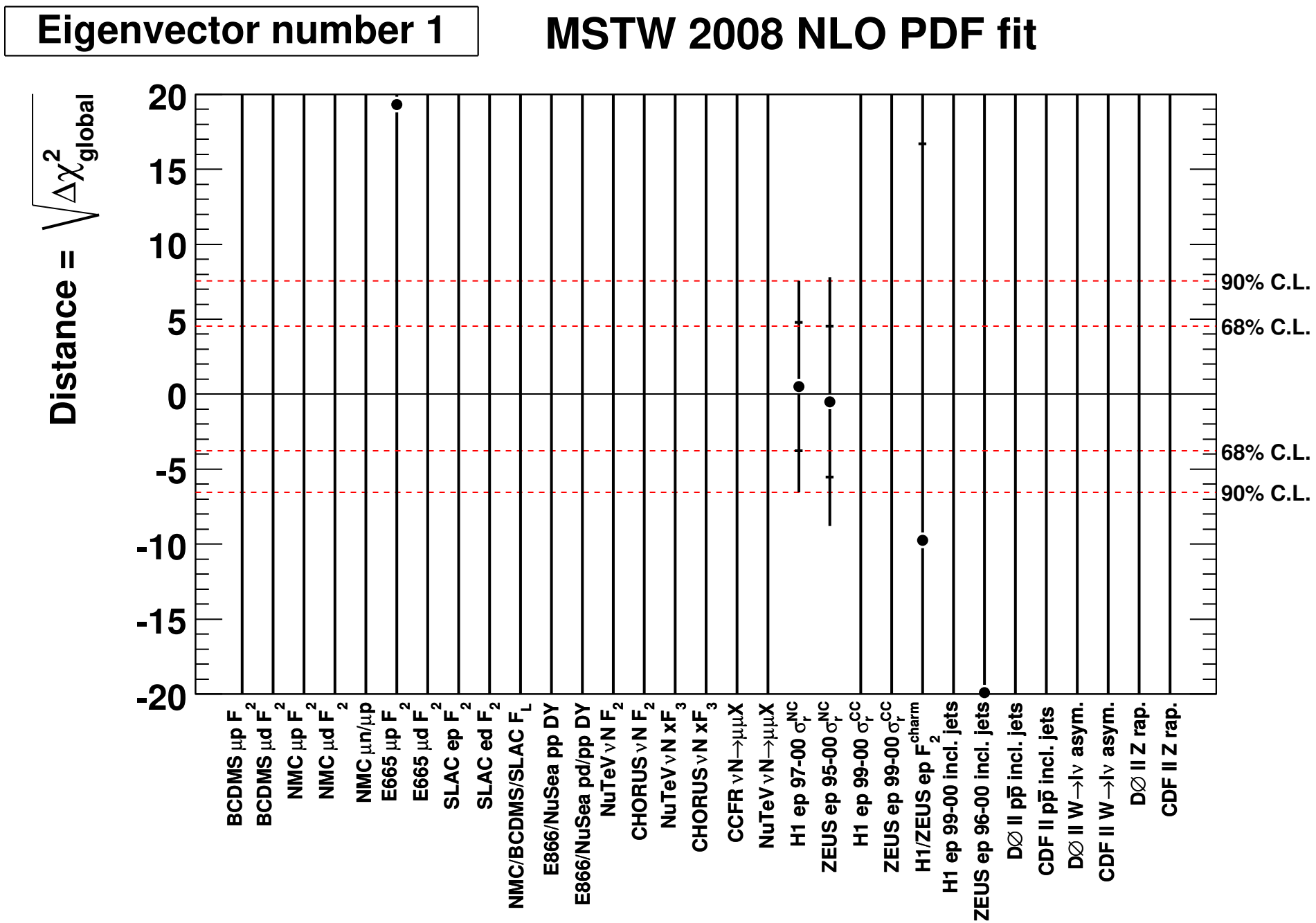
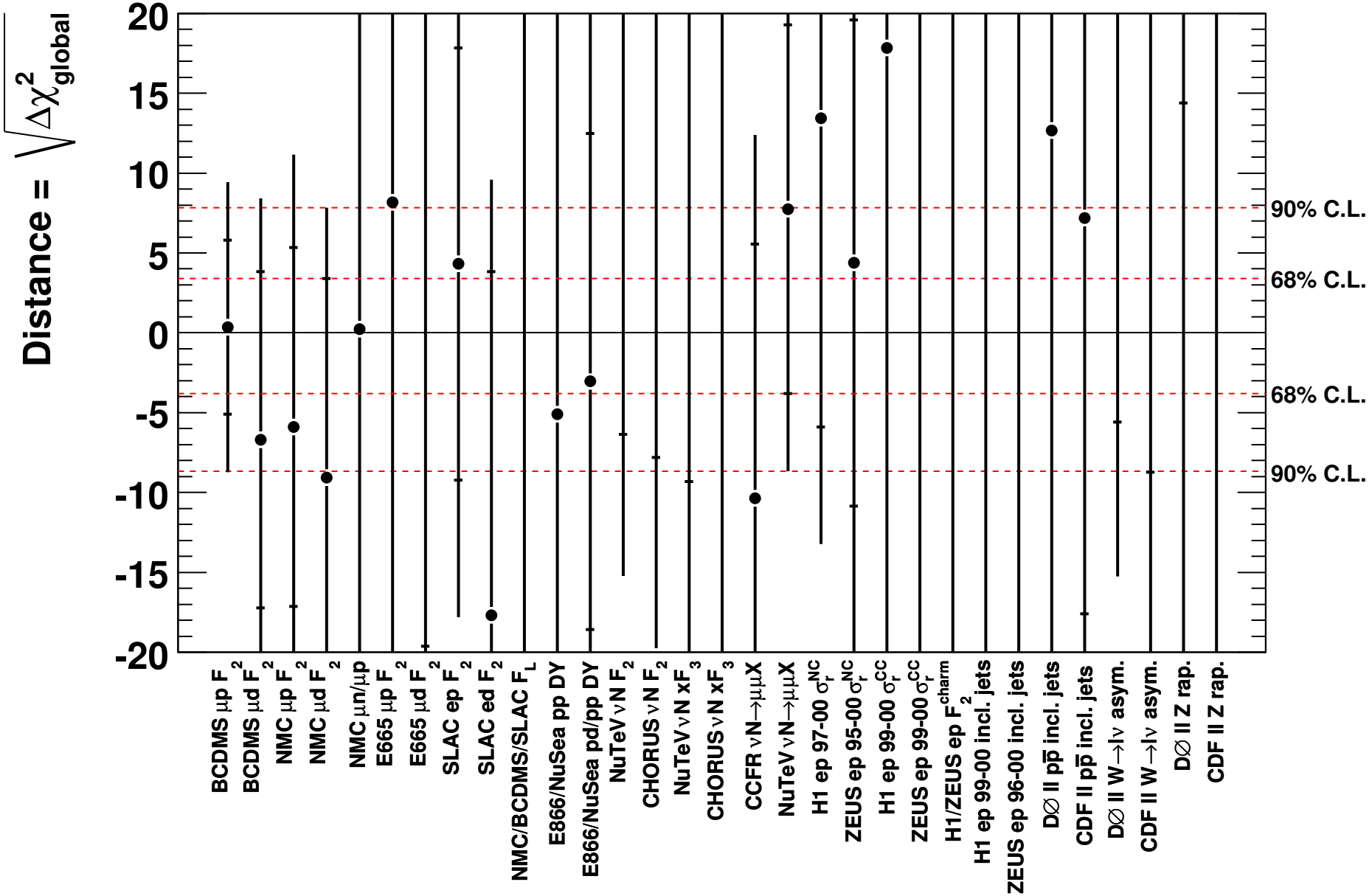
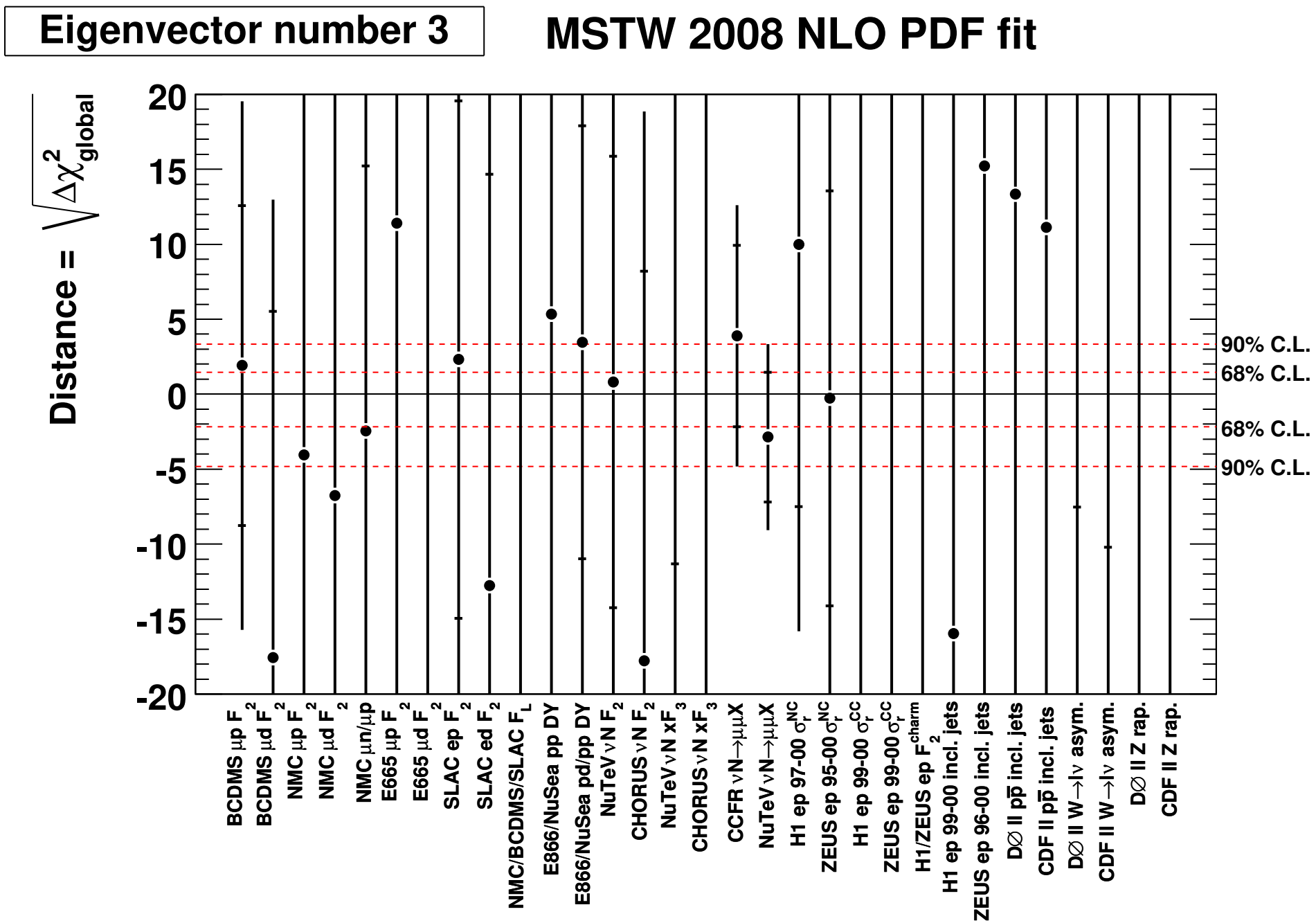
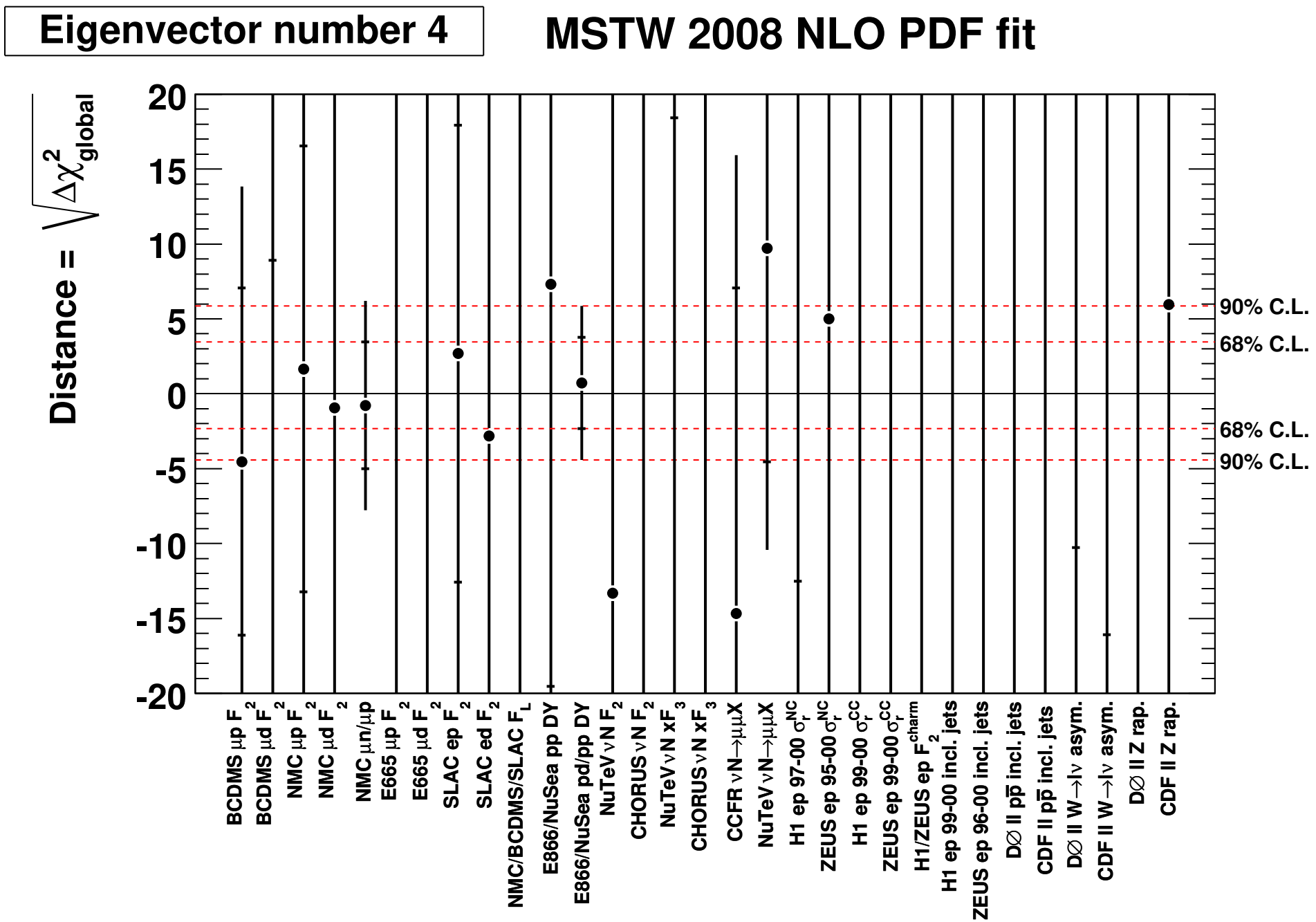

Eigenvector number 1
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR $\nu N \to \mu\mu X$
NuTeV $\nu N \to \mu\mu X$
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II $W \to l\nu$ asym.
CDF II $W \to l\nu$ asym.
DØ II Z rap.
CDF II Z rap.

Eigenvector number 2

MSTW 2008 NLO PDF fit

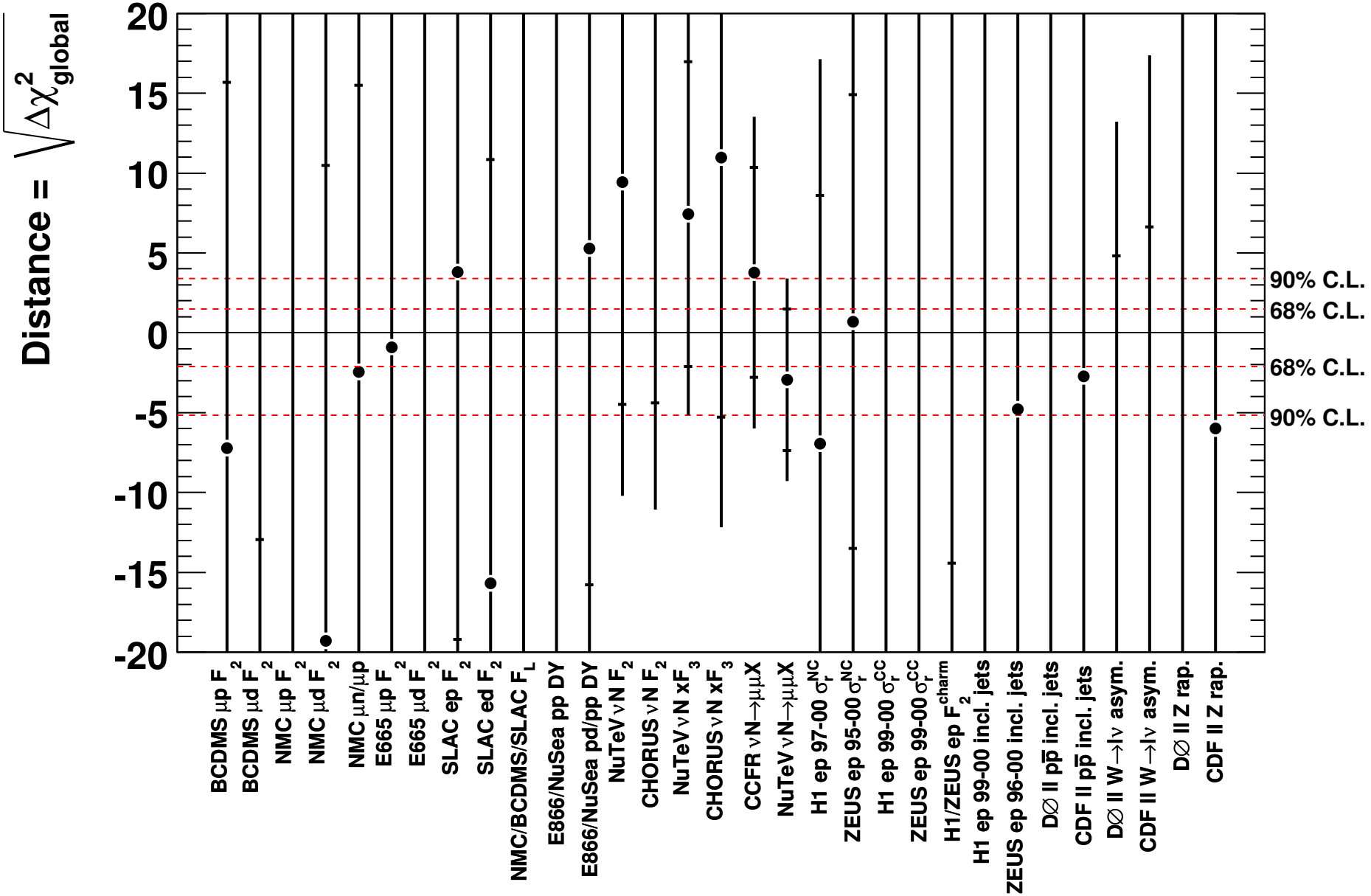


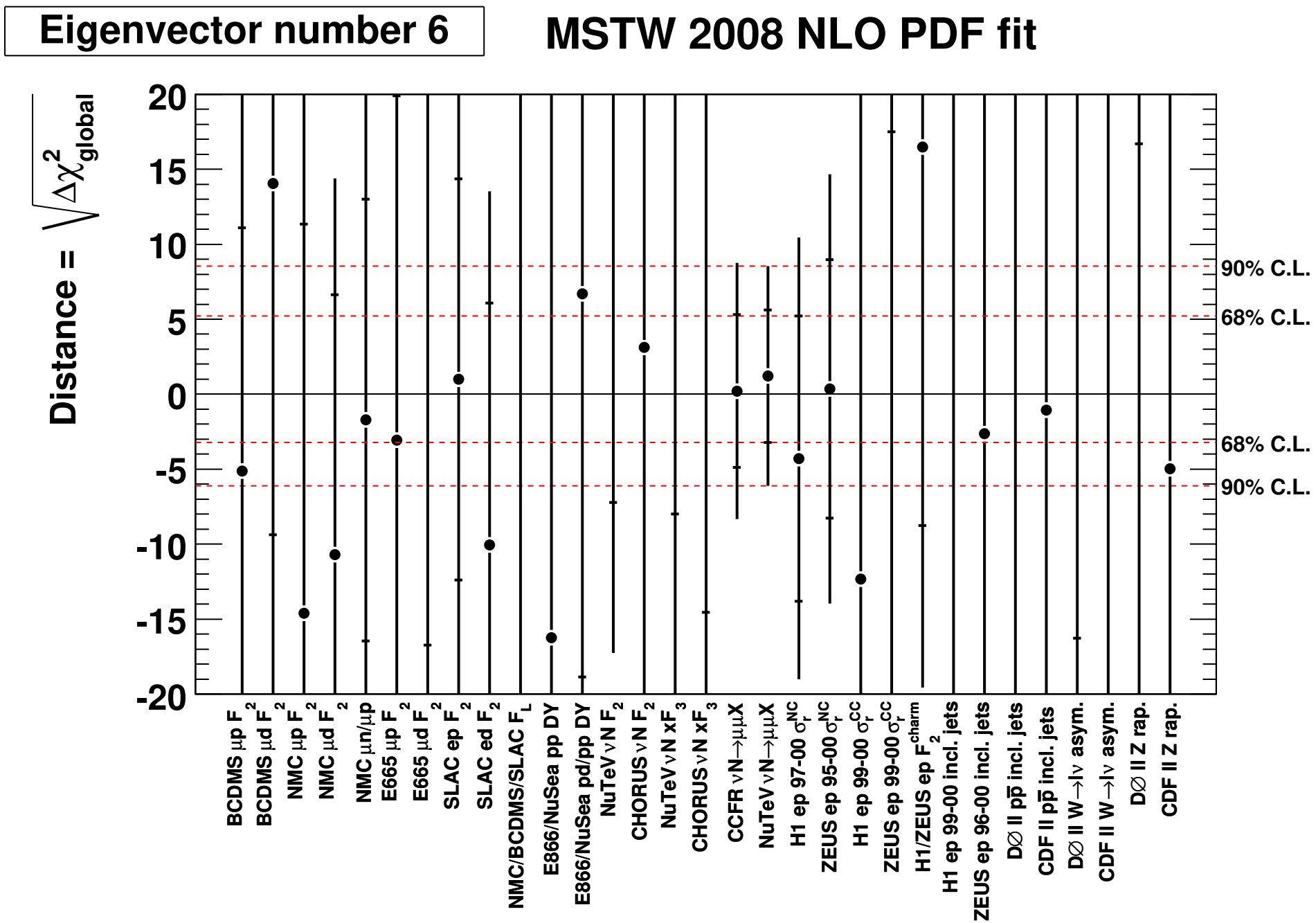

Eigenvector number 3
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR $\nu N \to \mu\mu X$
NuTeV $\nu N \to \mu\mu X$
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II $W \to l\nu$ asym.
CDF II $W \to l\nu$ asym.
DØ II Z rap.
CDF II Z rap.


Eigenvector number 4
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR νN→μμX
NuTeV νN→μμX
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II W→lν asym.
CDF II W→lν asym.
DØ II Z rap.
CDF II Z rap.

Eigenvector number 5

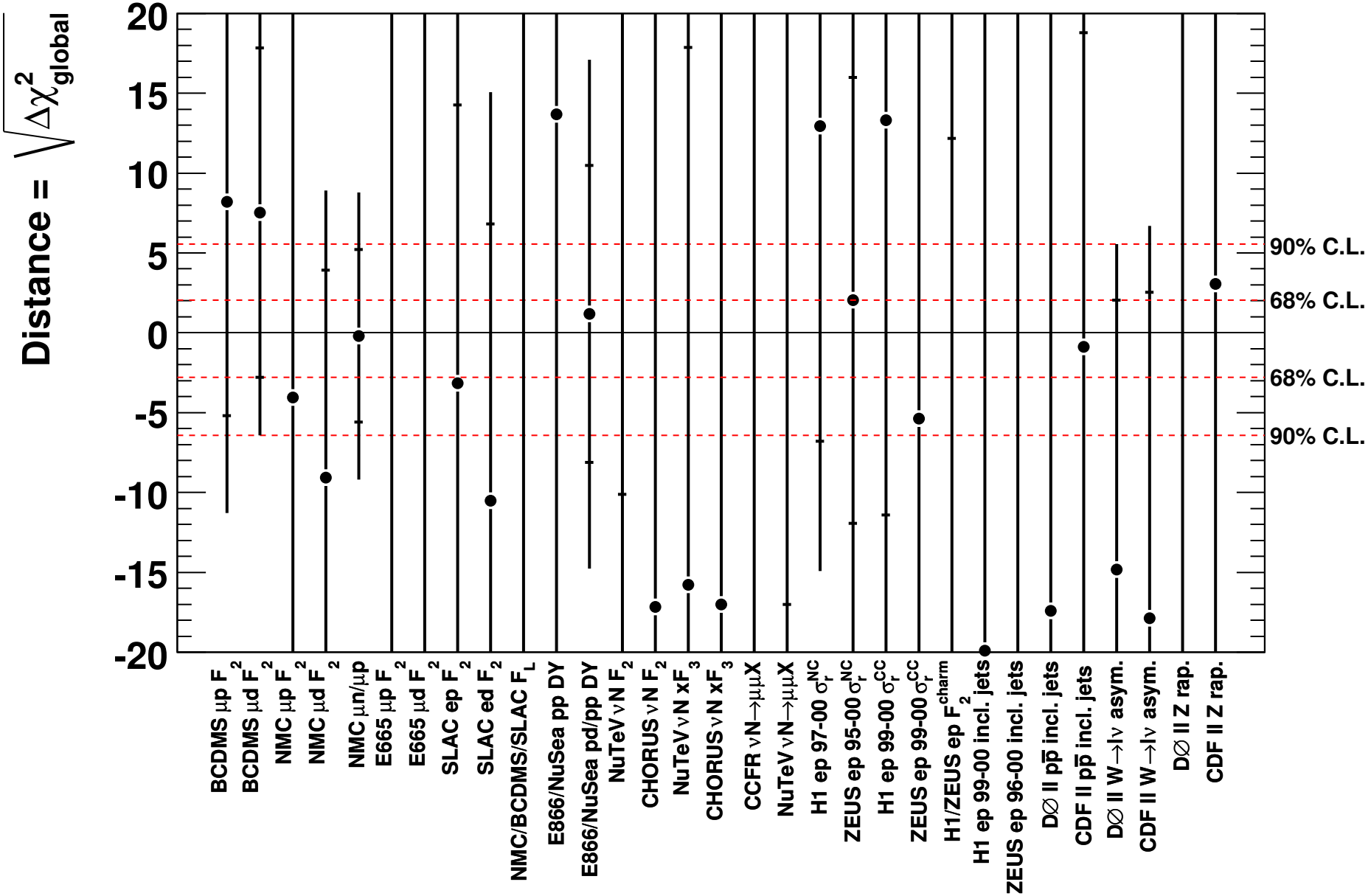
MSTW 2008 NLO PDF fit




Eigenvector number 6
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR νN→μμX
NuTeV νN→μμX
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II W→lν asym.
CDF II W→lν asym.
DØ II Z rap.
CDF II Z rap.

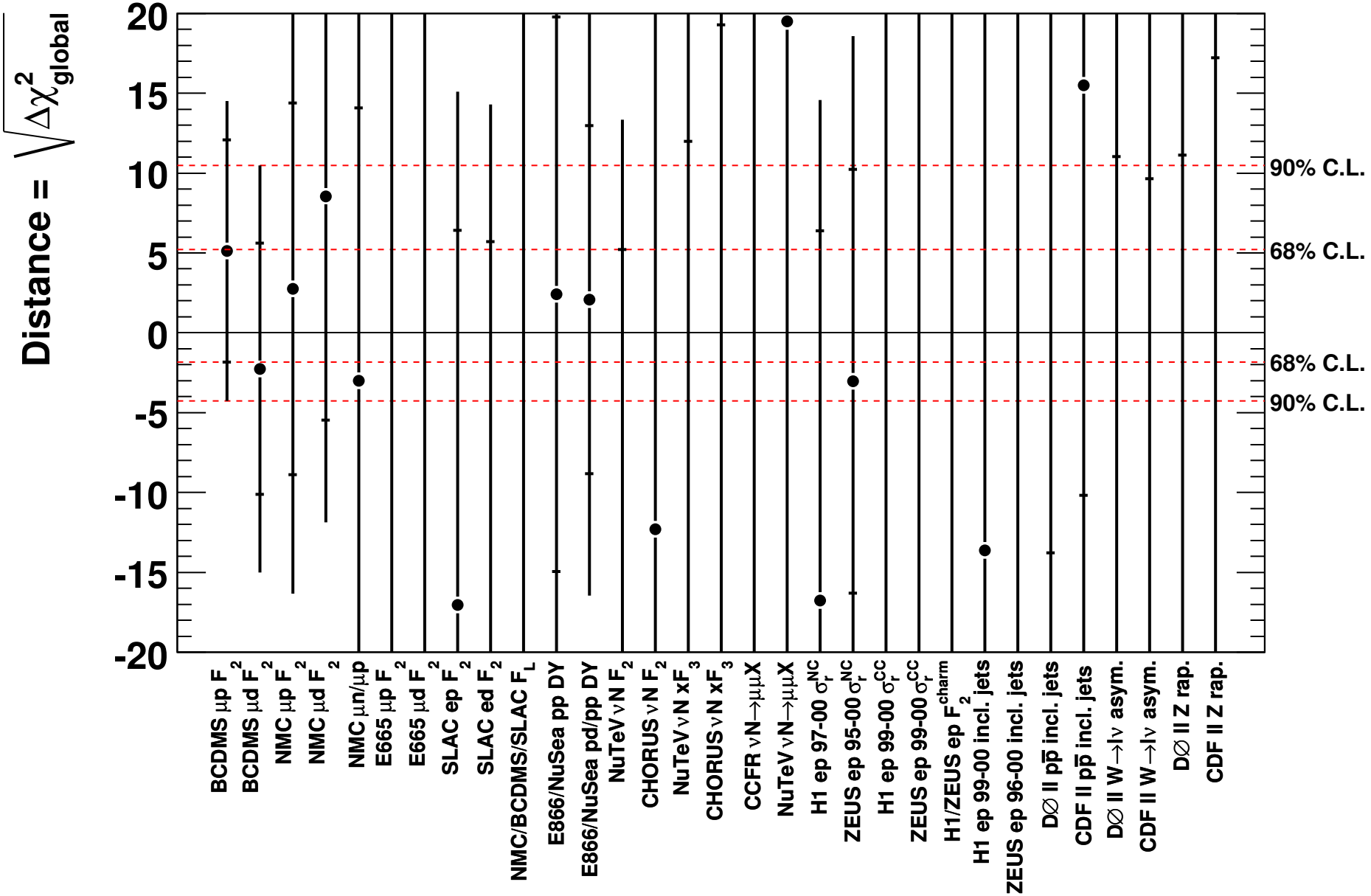
Eigenvector number 7

MSTW 2008 NLO PDF fit



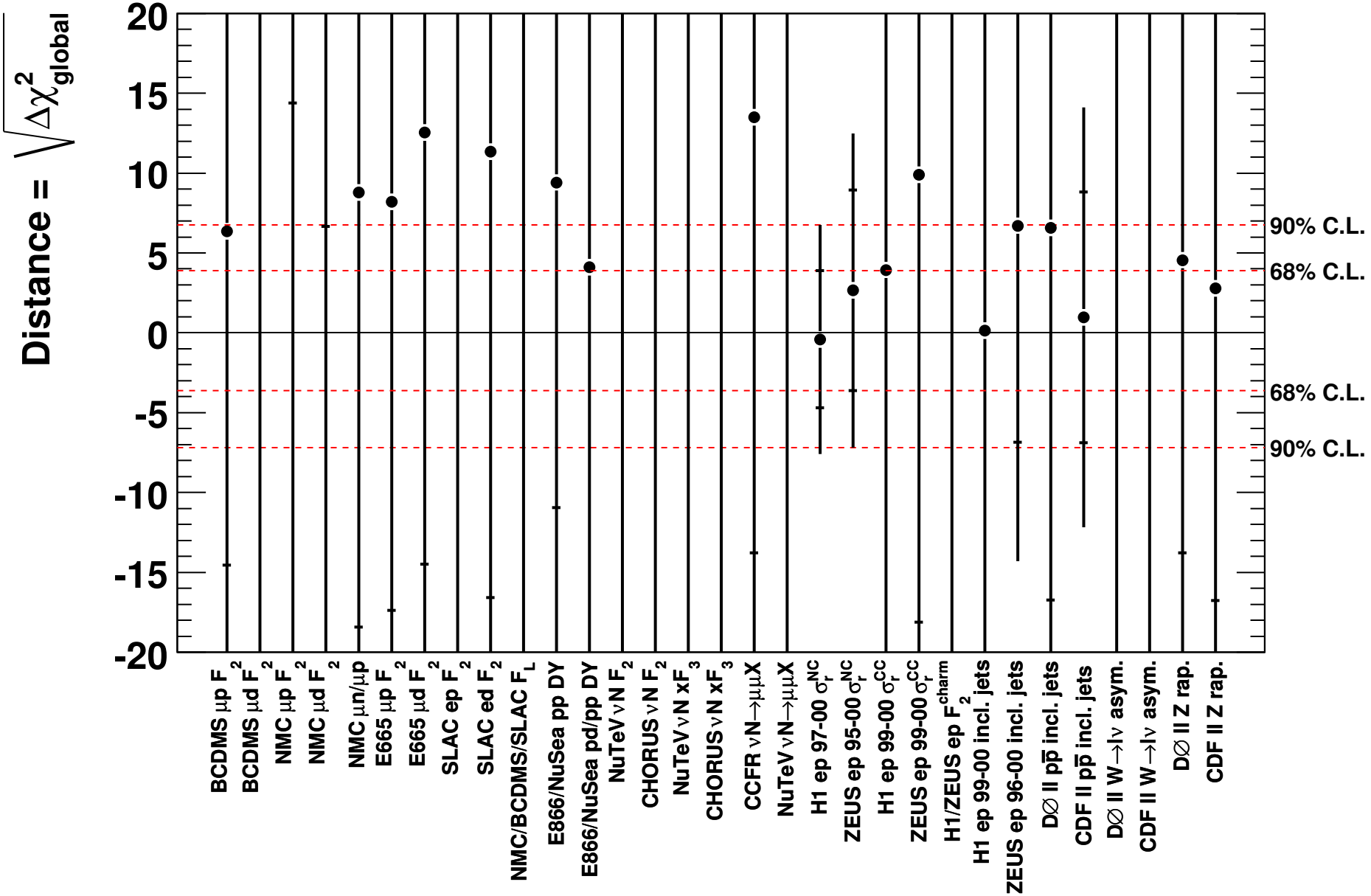
Eigenvector number 8

MSTW 2008 NLO PDF fit



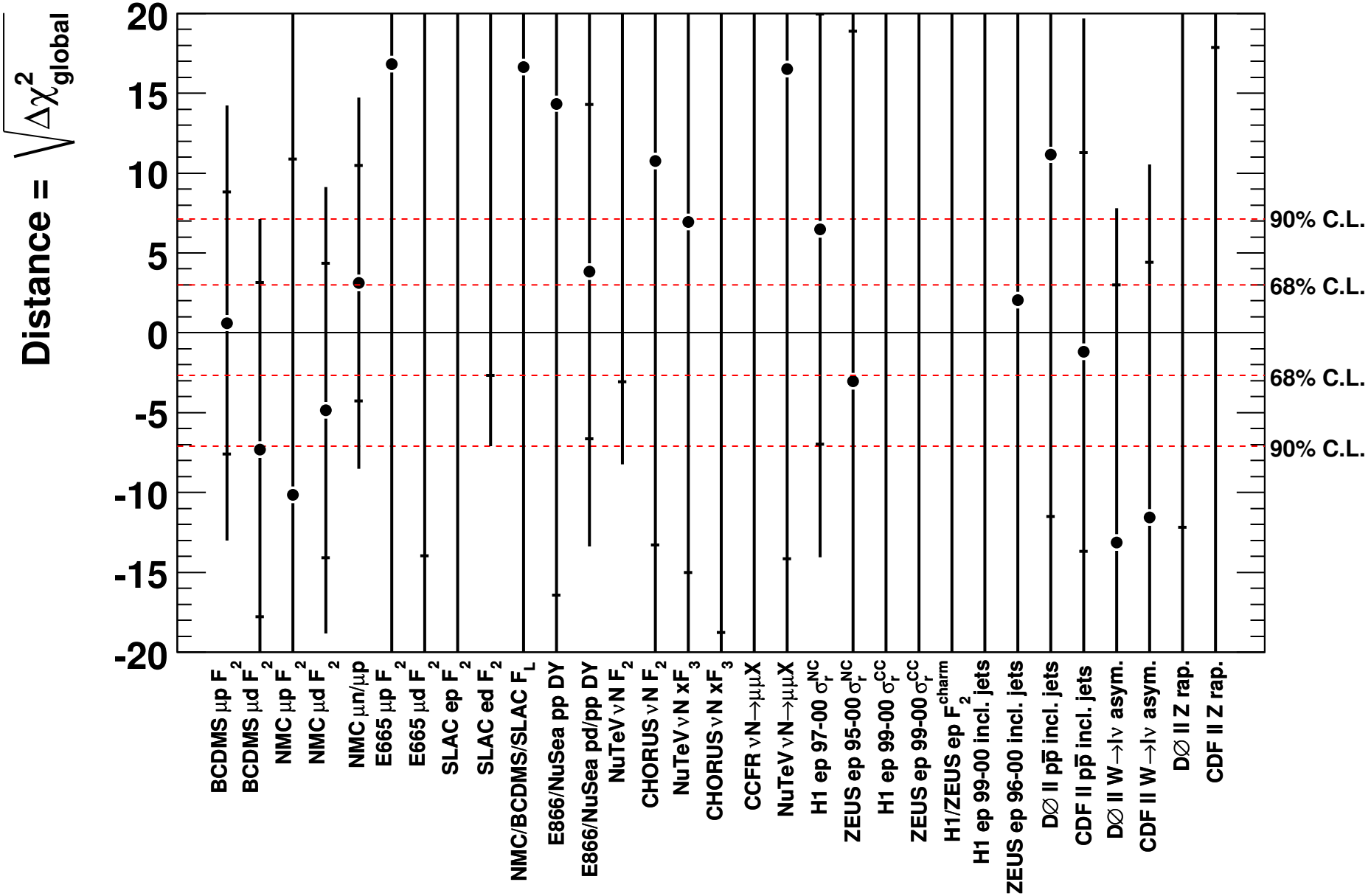
Eigenvector number 9

MSTW 2008 NLO PDF fit



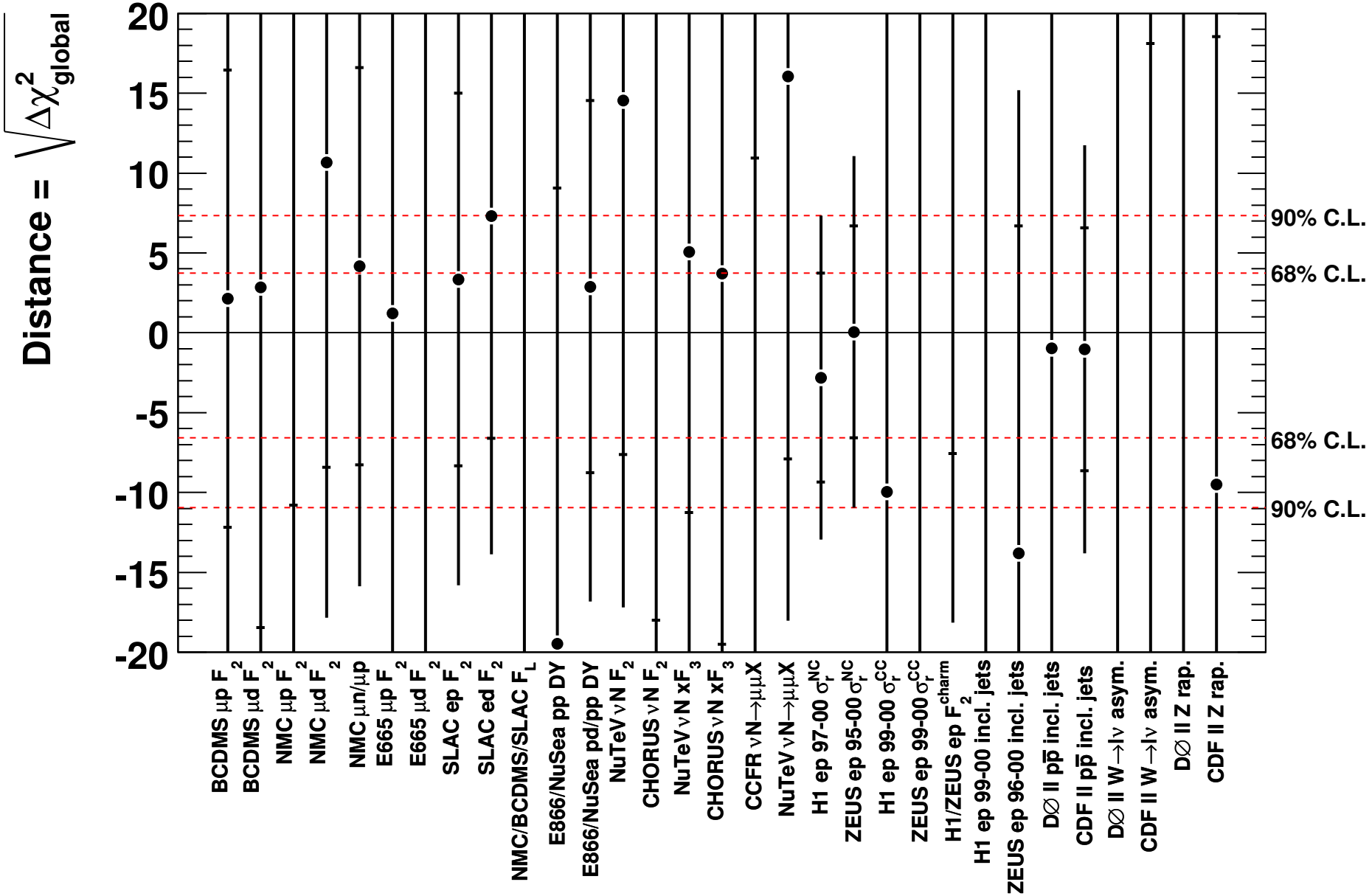
Eigenvector number 10

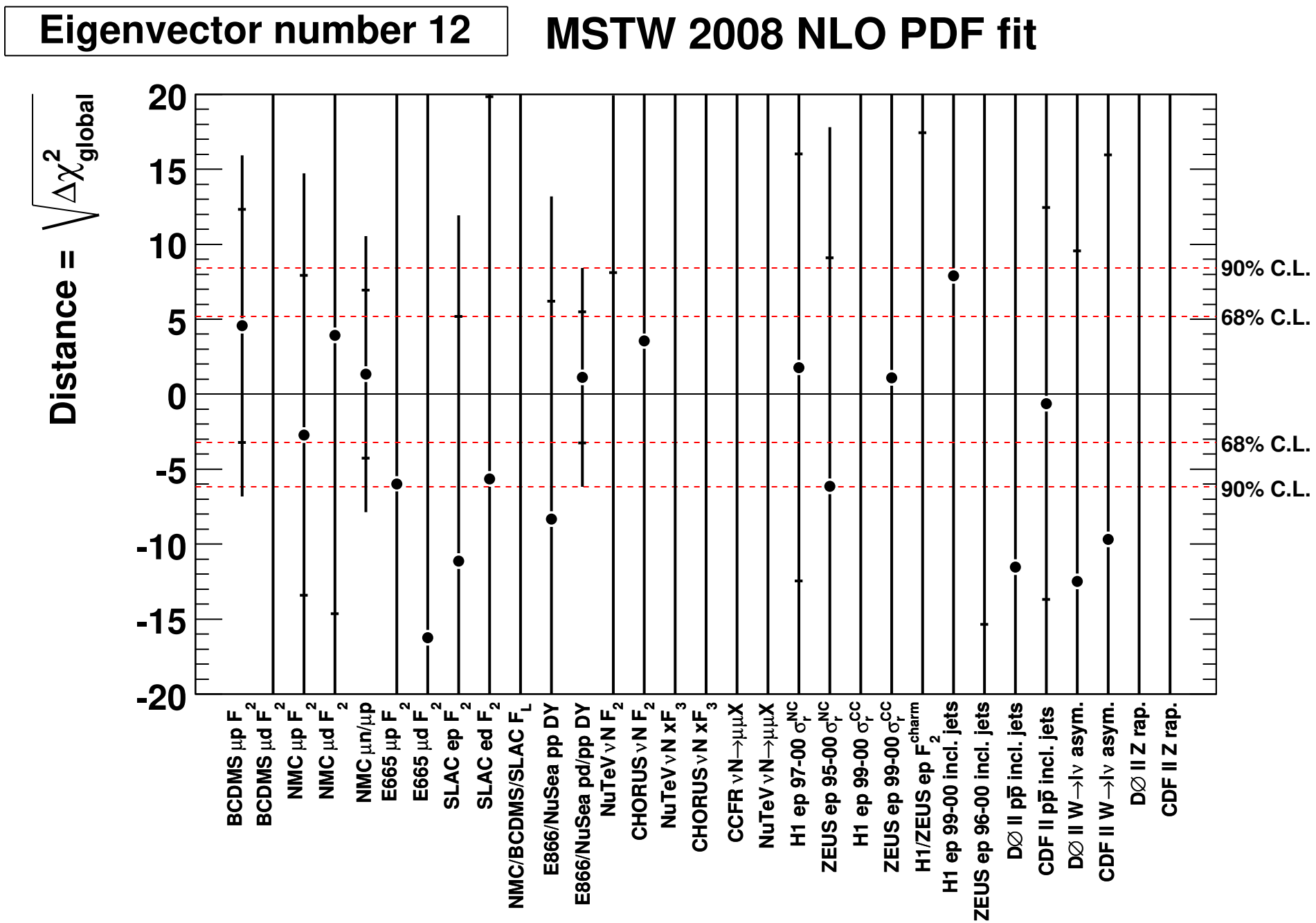
MSTW 2008 NLO PDF fit



Eigenvector number 11

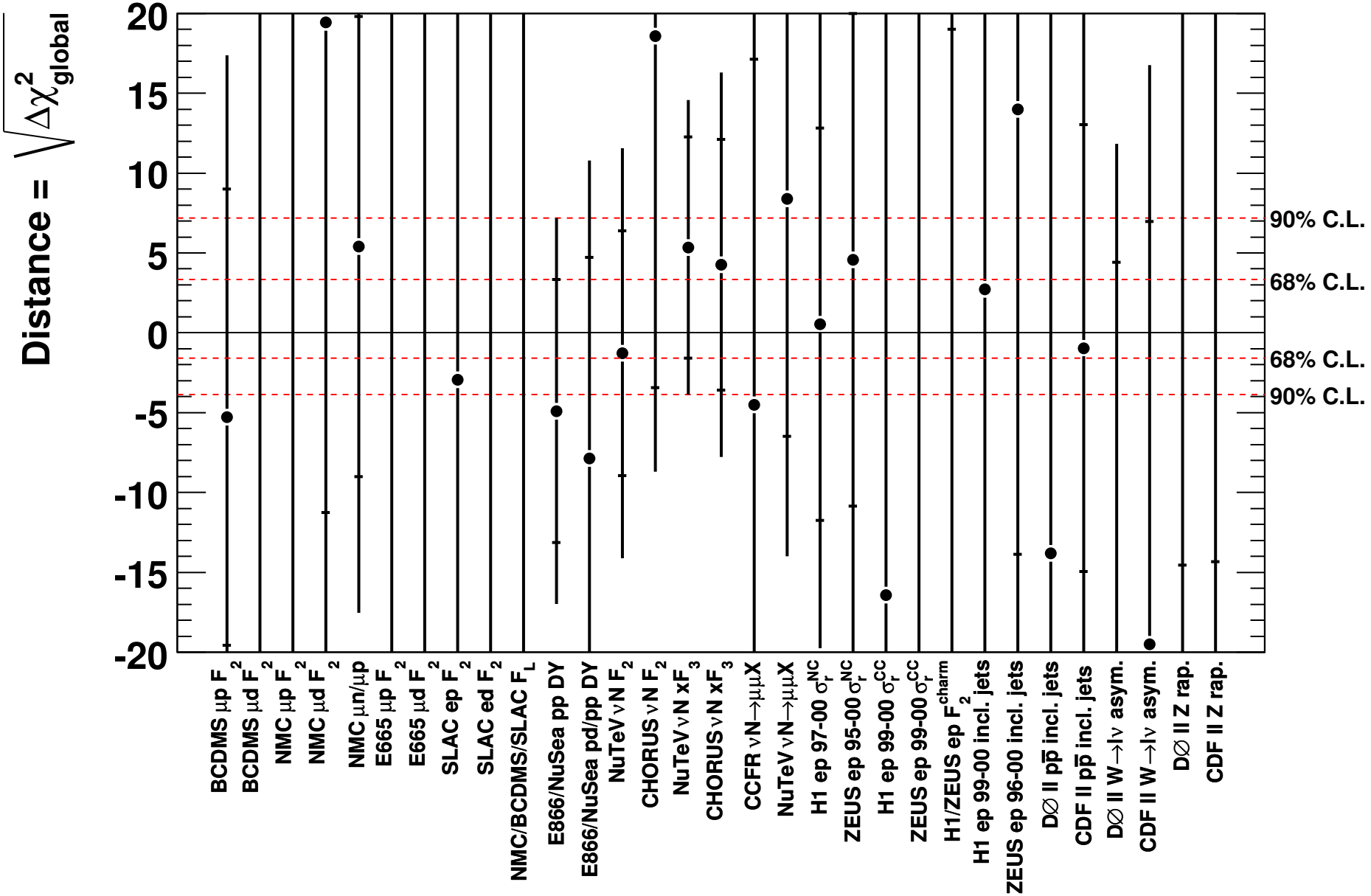
MSTW 2008 NLO PDF fit




Eigenvector number 12
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR νN→μμX
NuTeV νN→μμX
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II W→lν asym.
CDF II W→lν asym.
DØ II Z rap.
CDF II Z rap.

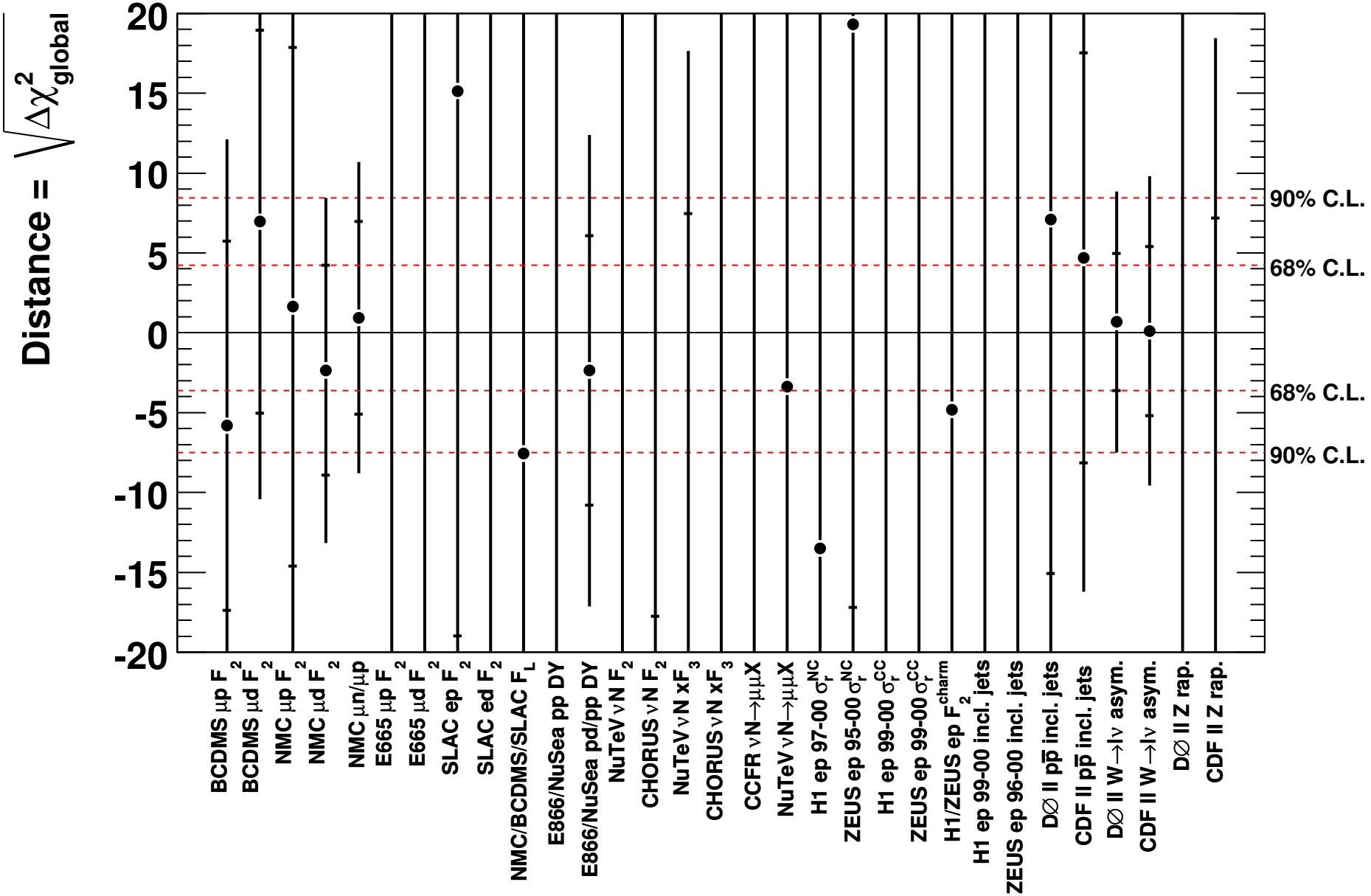
Eigenvector number 13

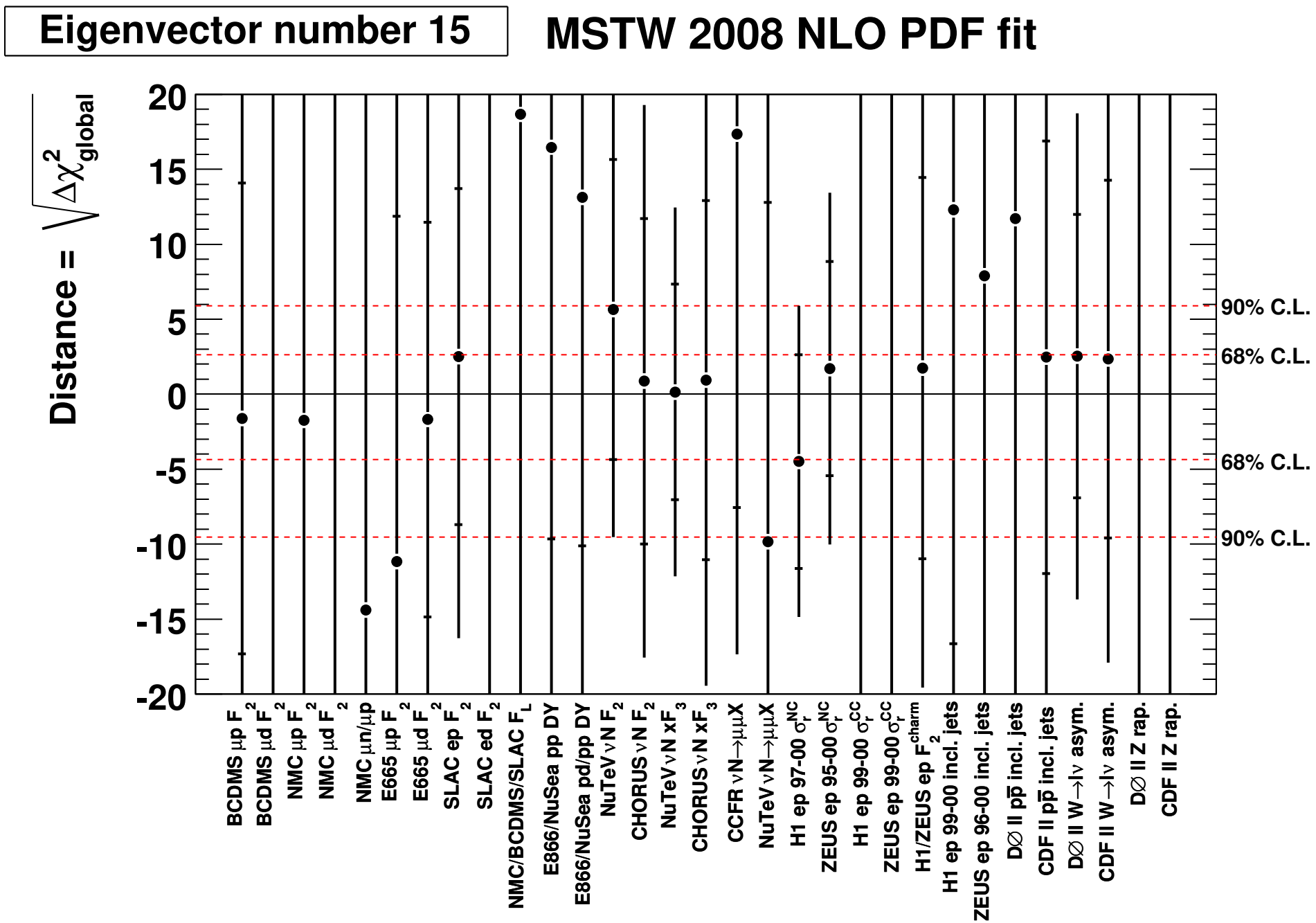
MSTW 2008 NLO PDF fit

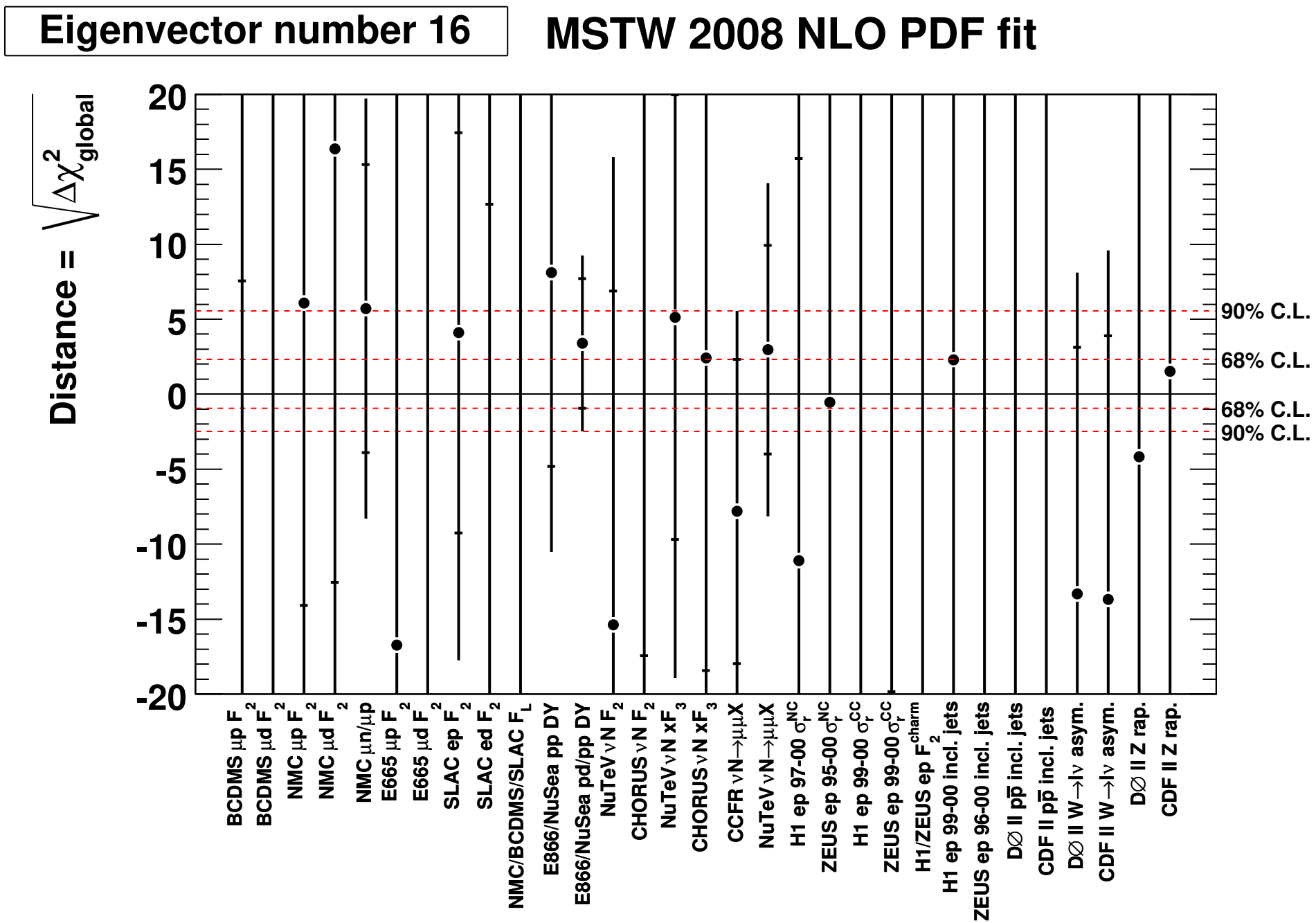


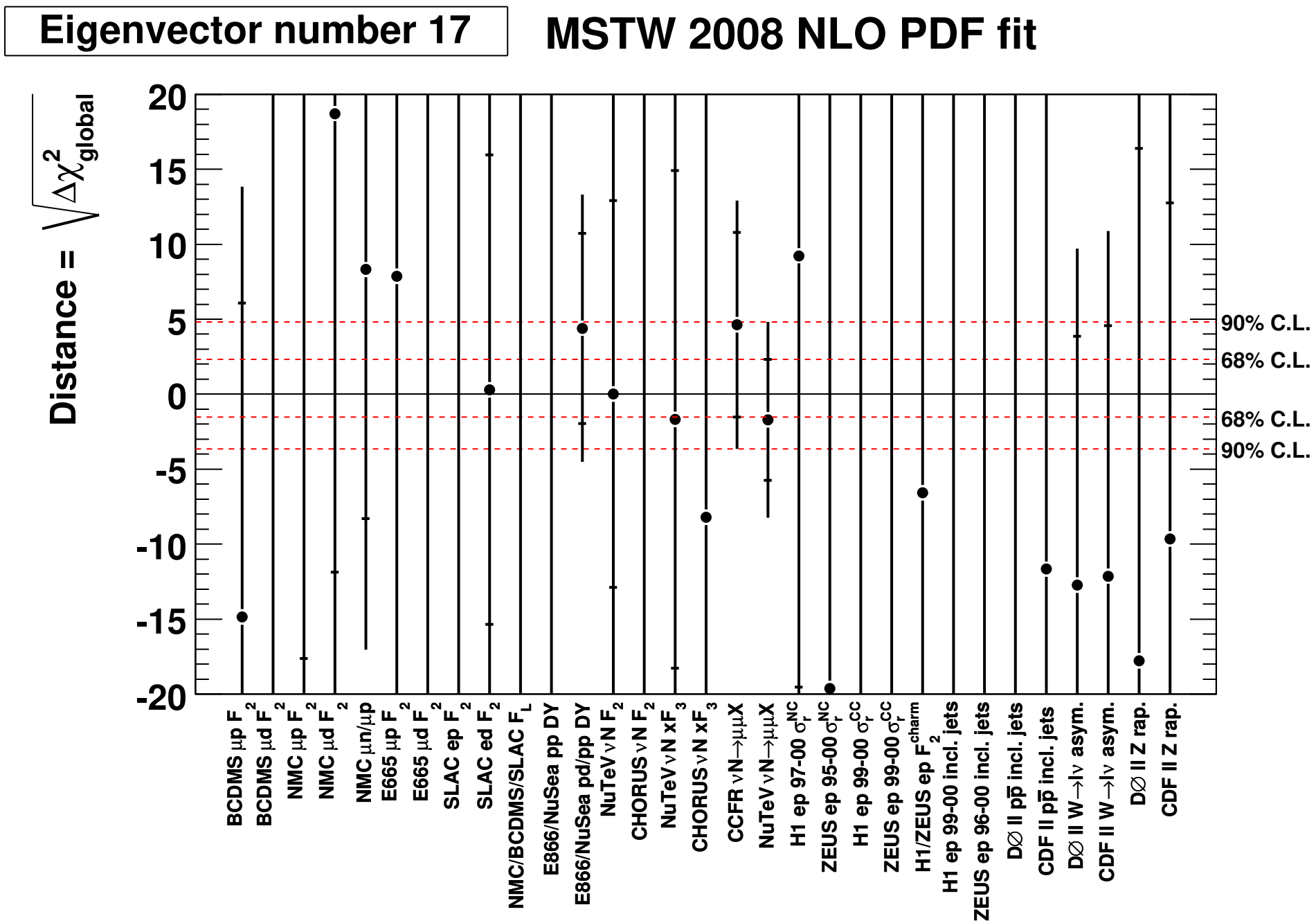
Eigenvector number 14

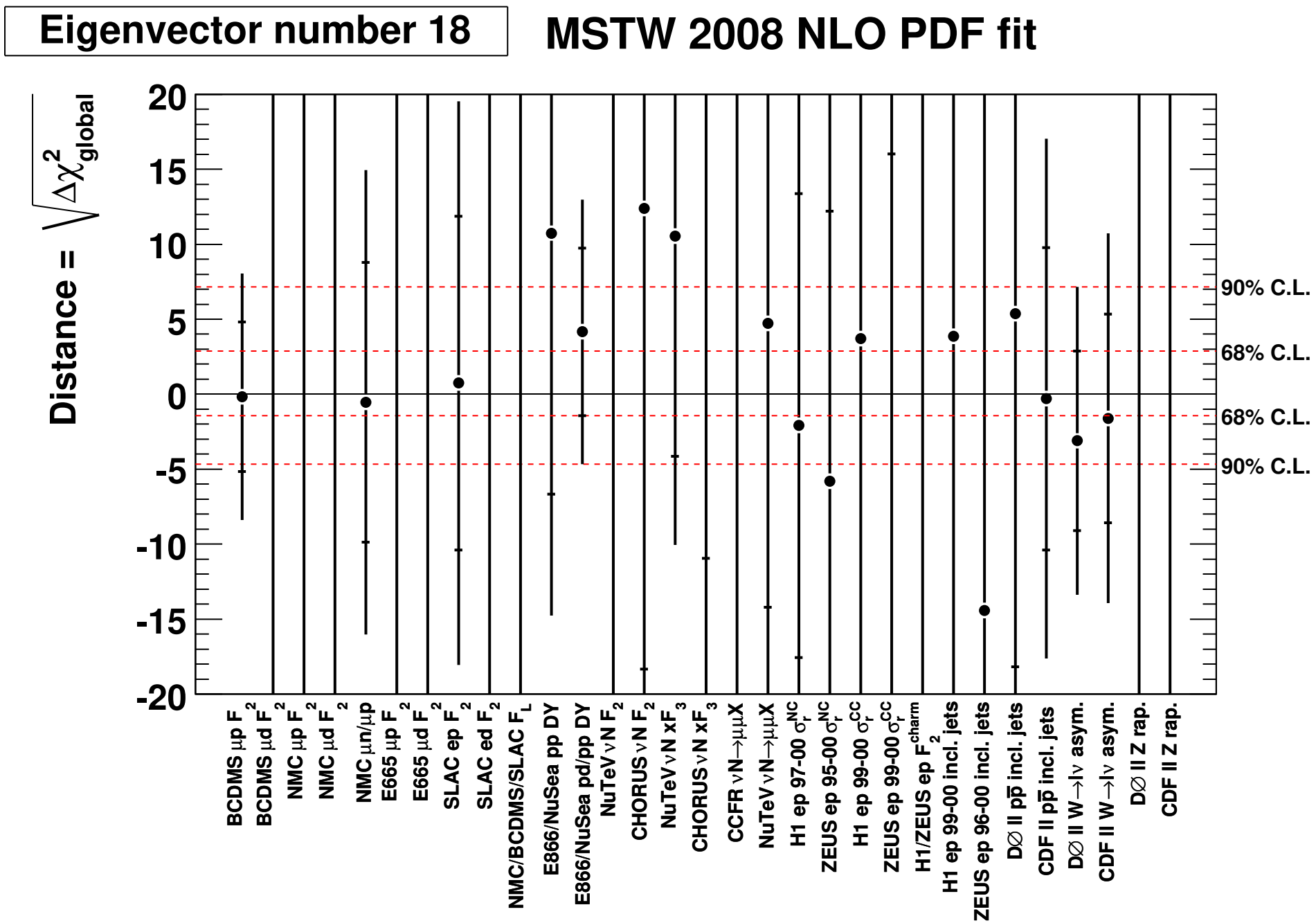
MSTW 2008 NLO PDF fit




Eigenvector number 15
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR νN→μμX
NuTeV νN→μμX
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II W→lν asym.
CDF II W→lν asym.
DØ II Z rap.
CDF II Z rap.

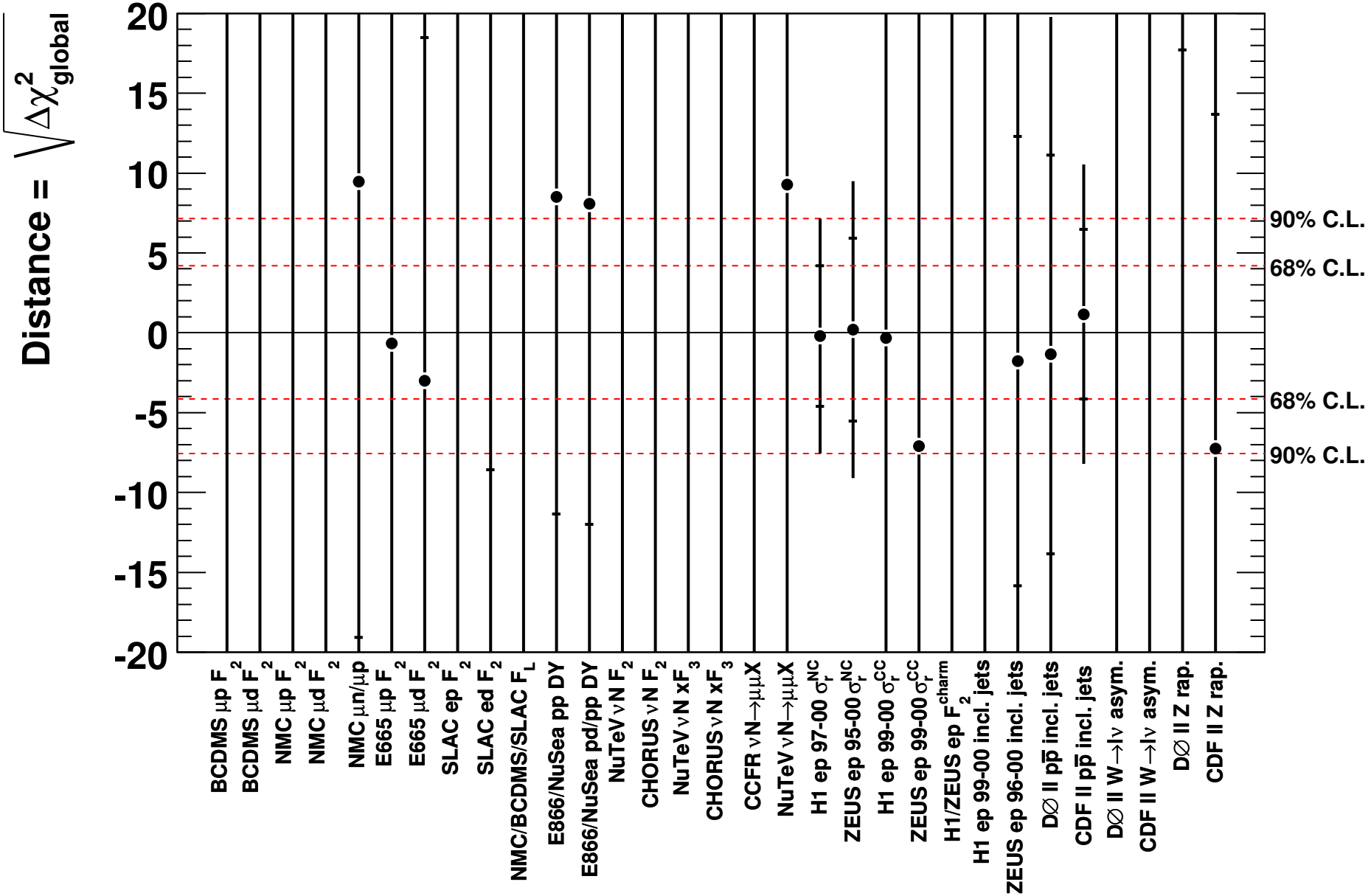

Eigenvector number 16
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR νN→μμX
NuTeV νN→μμX
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II W→lν asym.
CDF II W→lν asym.
DØ II Z rap.
CDF II Z rap.

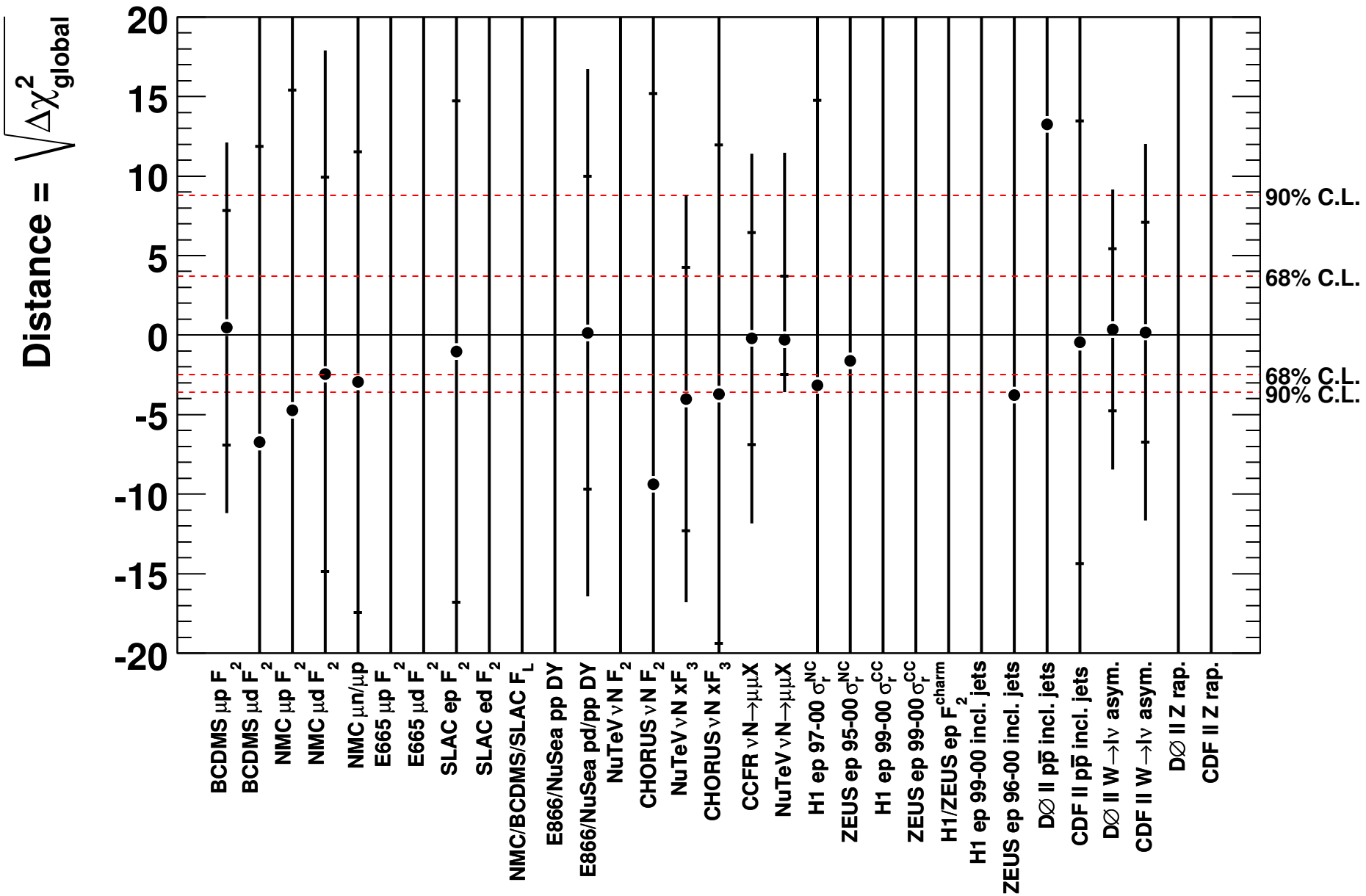

Eigenvector number 17
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR νN→μμX
NuTeV νN→μμX
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II W→lν asym.
CDF II W→lν asym.
DØ II Z rap.
CDF II Z rap.


Eigenvector number 18
MSTW 2008 NLO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea pd/pp DY
NuTeV νN F_2
CHORUS νN F_2
NuTeV νN xF_3
CHORUS νN xF_3
CCFR νN→μμX
NuTeV νN→μμX
H1 ep 97-00 σ_r^{NC}
ZEUS ep 95-00 σ_r^{NC}
H1 ep 99-00 σ_r^{CC}
ZEUS ep 99-00 σ_r^{CC}
H1/ZEUS ep F_2^{charm}
H1 ep 99-00 incl. jets
ZEUS ep 96-00 incl. jets
DØ II pp̄ incl. jets
CDF II pp̄ incl. jets
DØ II W→lν asym.
CDF II W→lν asym.
DØ II Z rap.
CDF II Z rap.

Eigenvector number 19

MSTW 2008 NLO PDF fit



Eigenvector number 20

MSTW 2008 NLO PDF fit