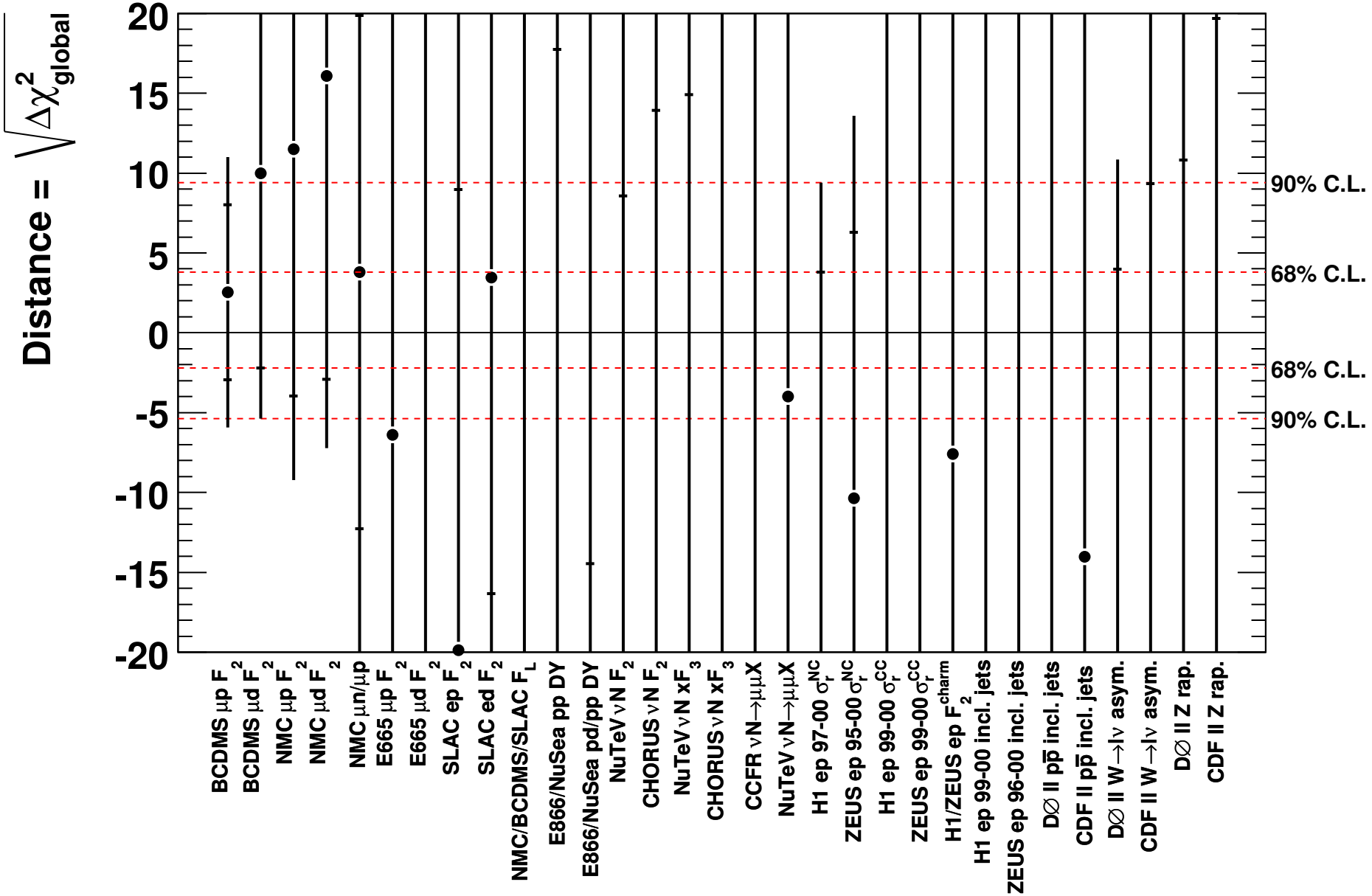
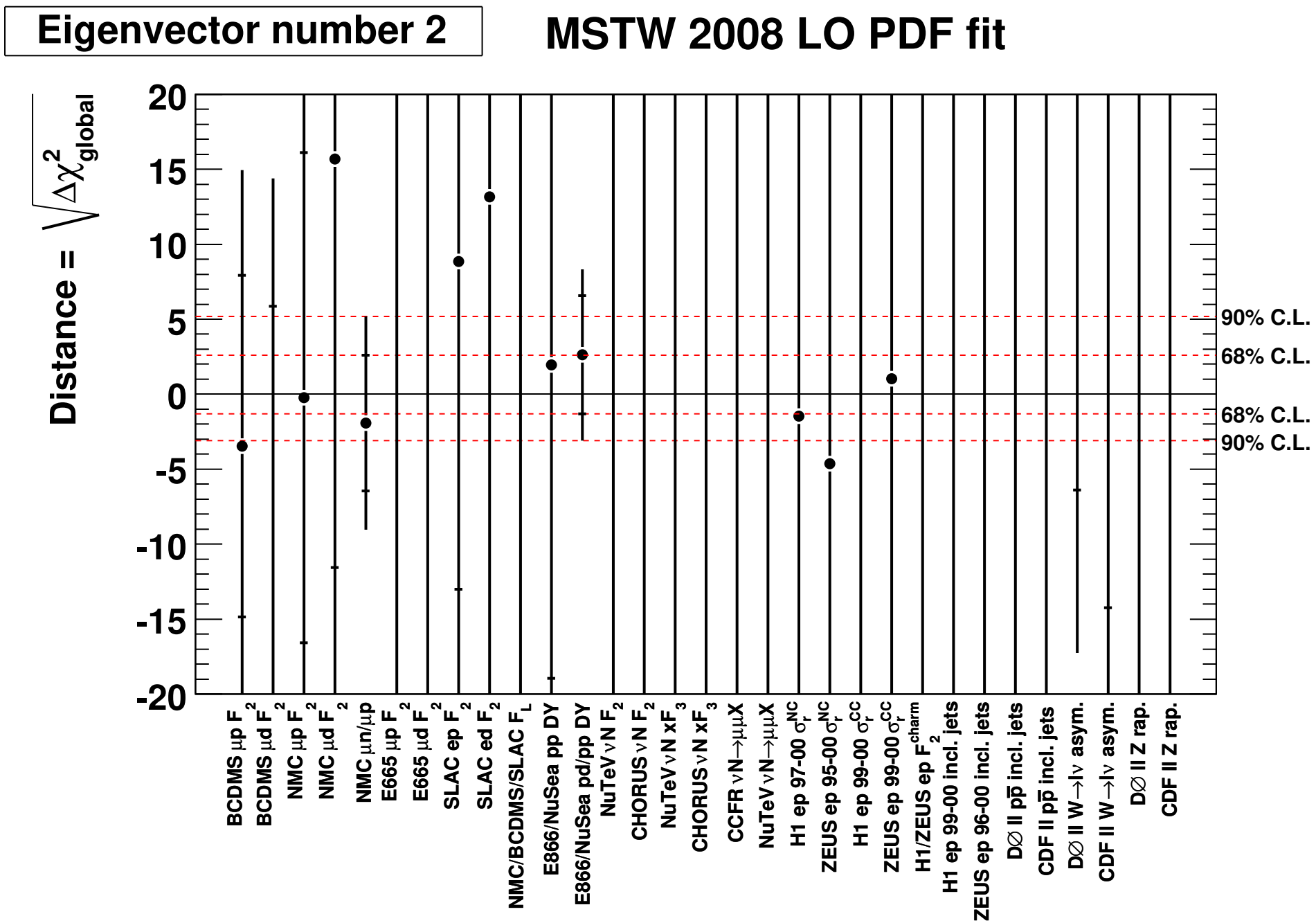
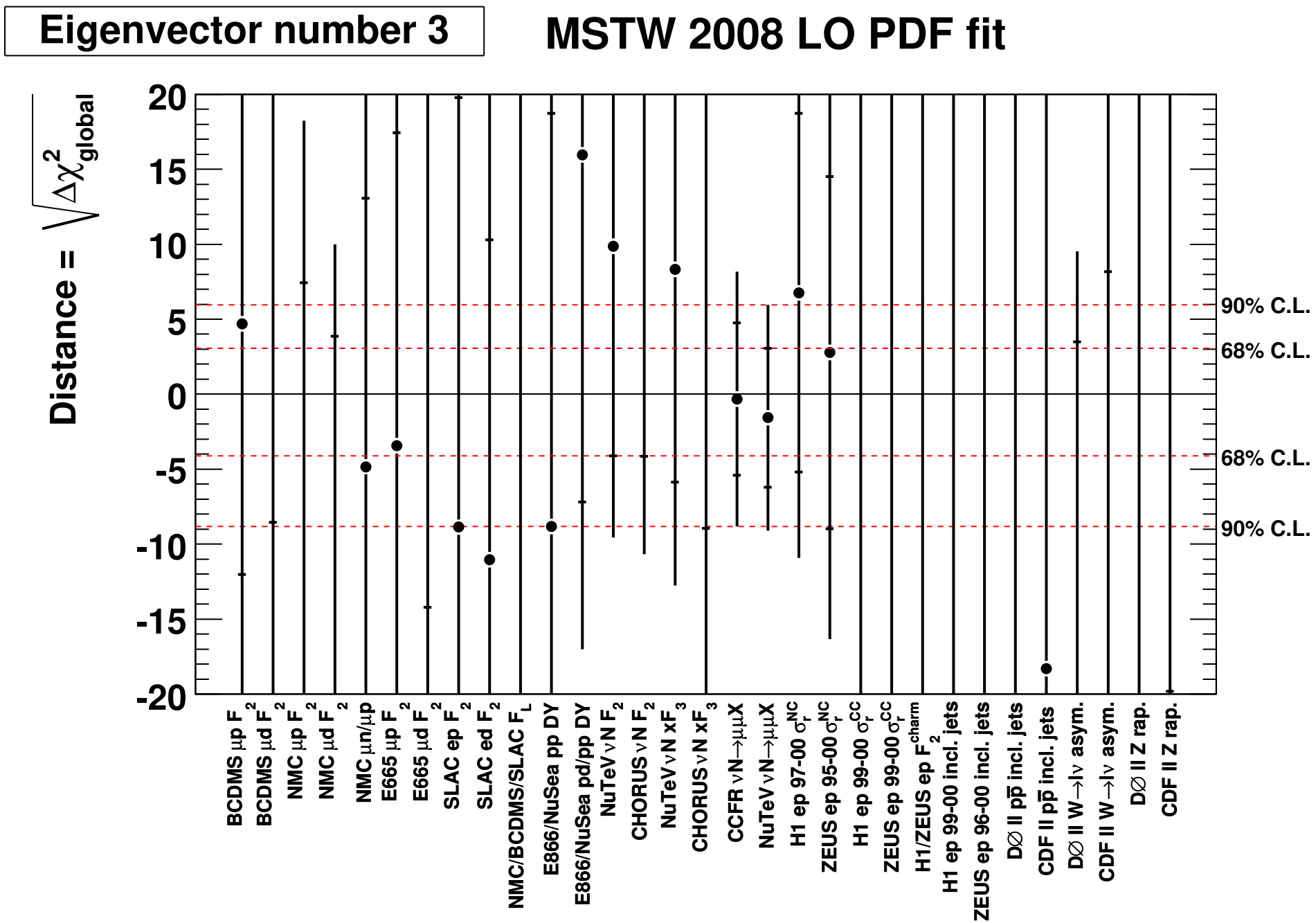
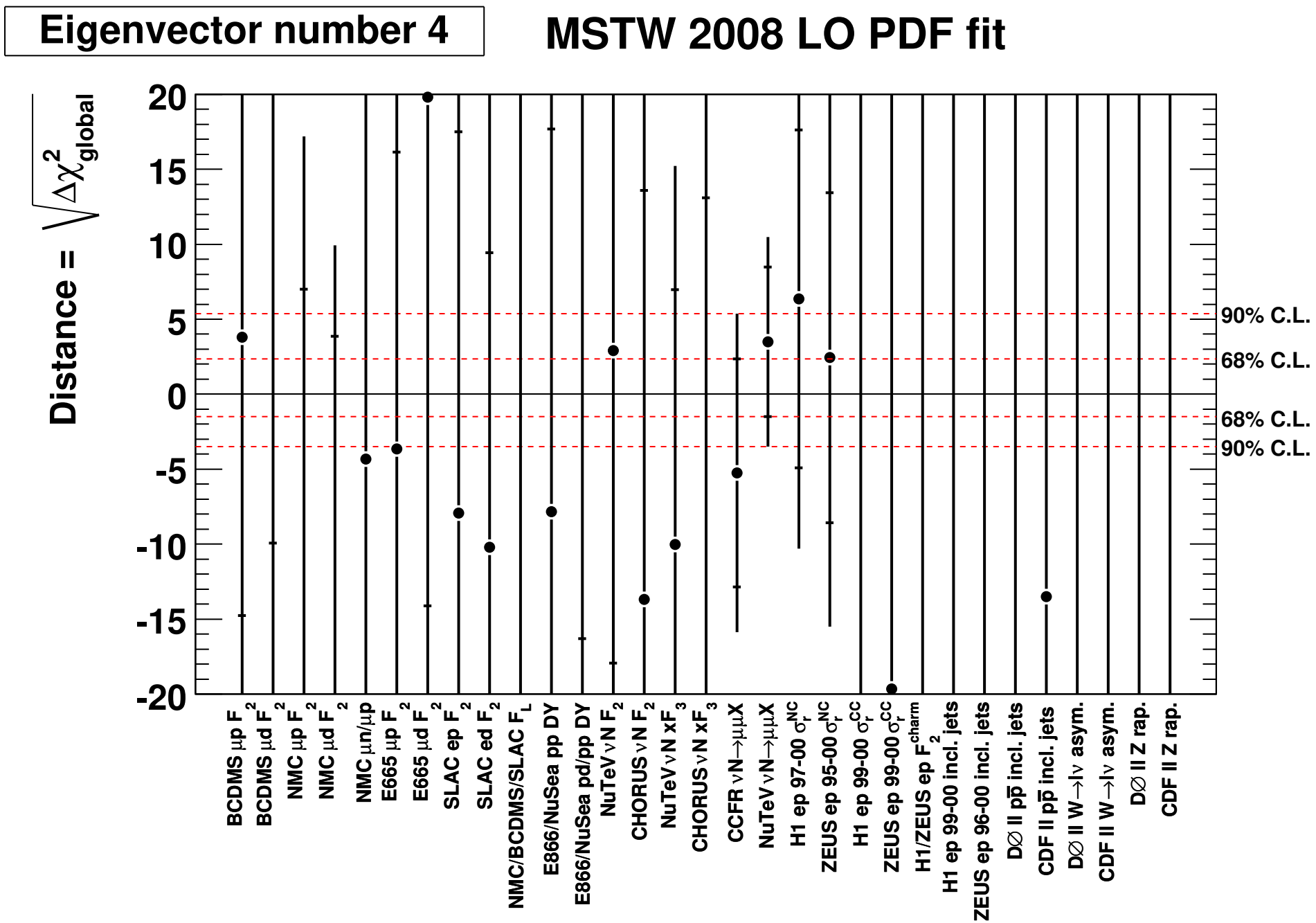
Eigenvector number 1

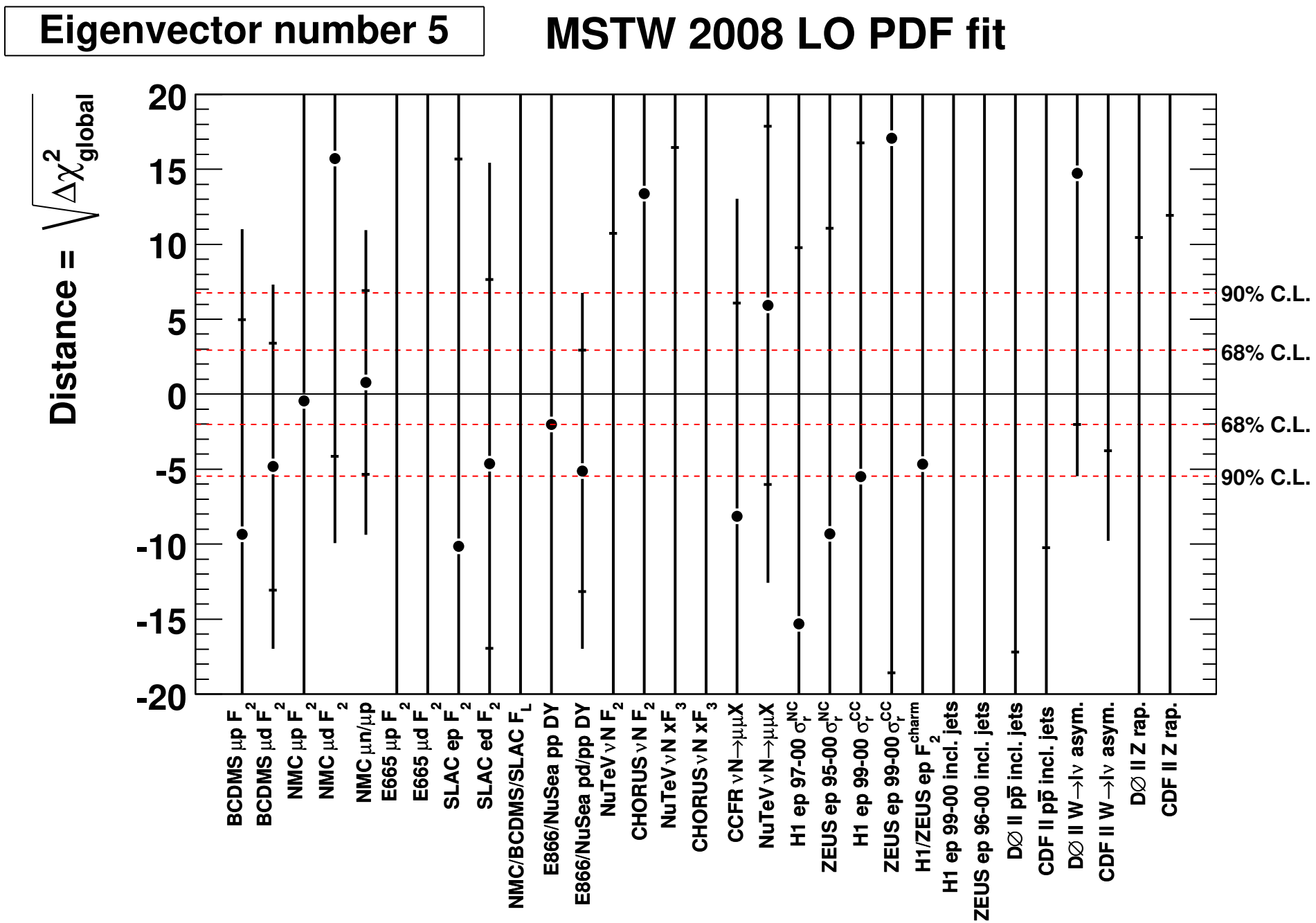
MSTW 2008 LO PDF fit

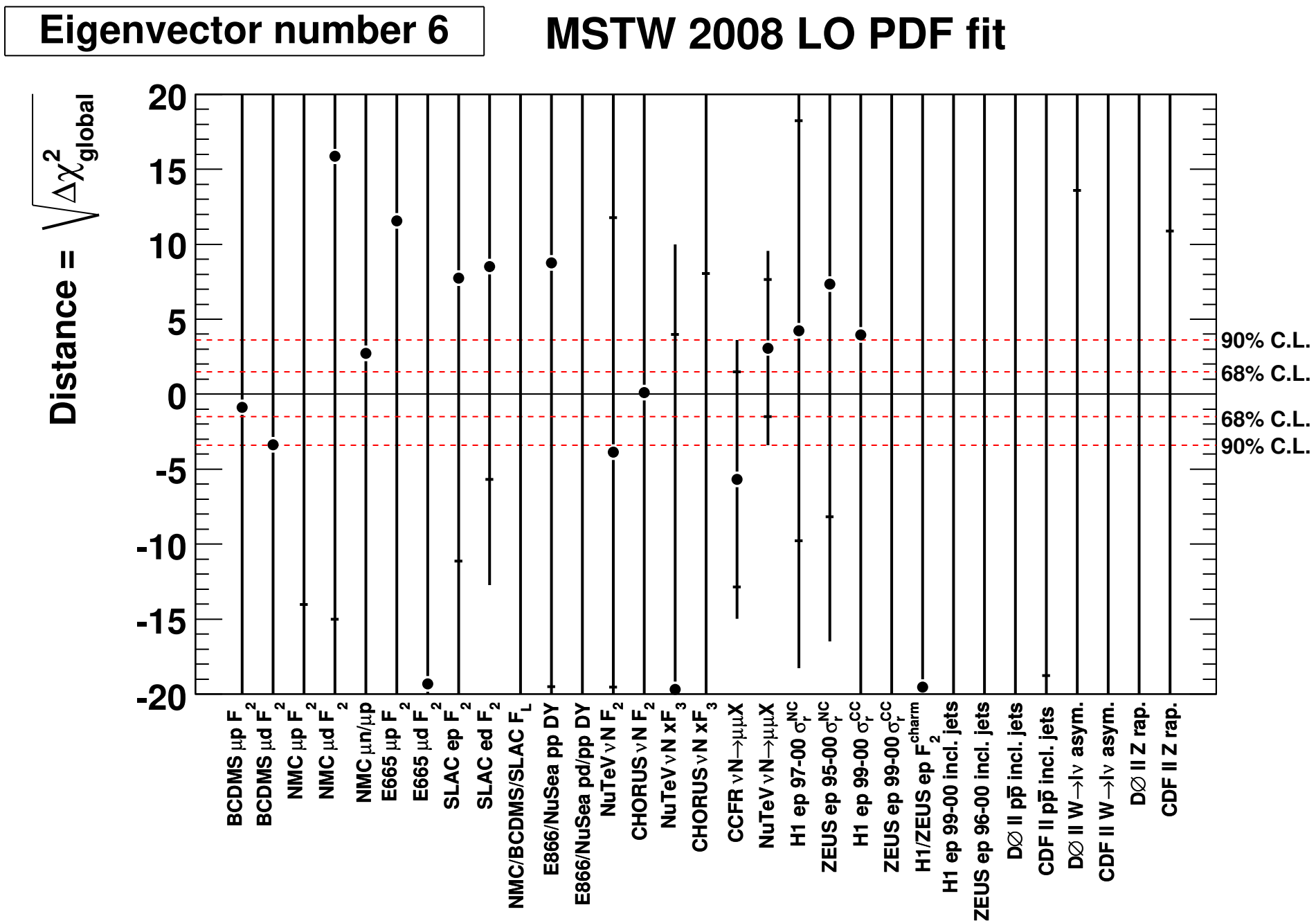


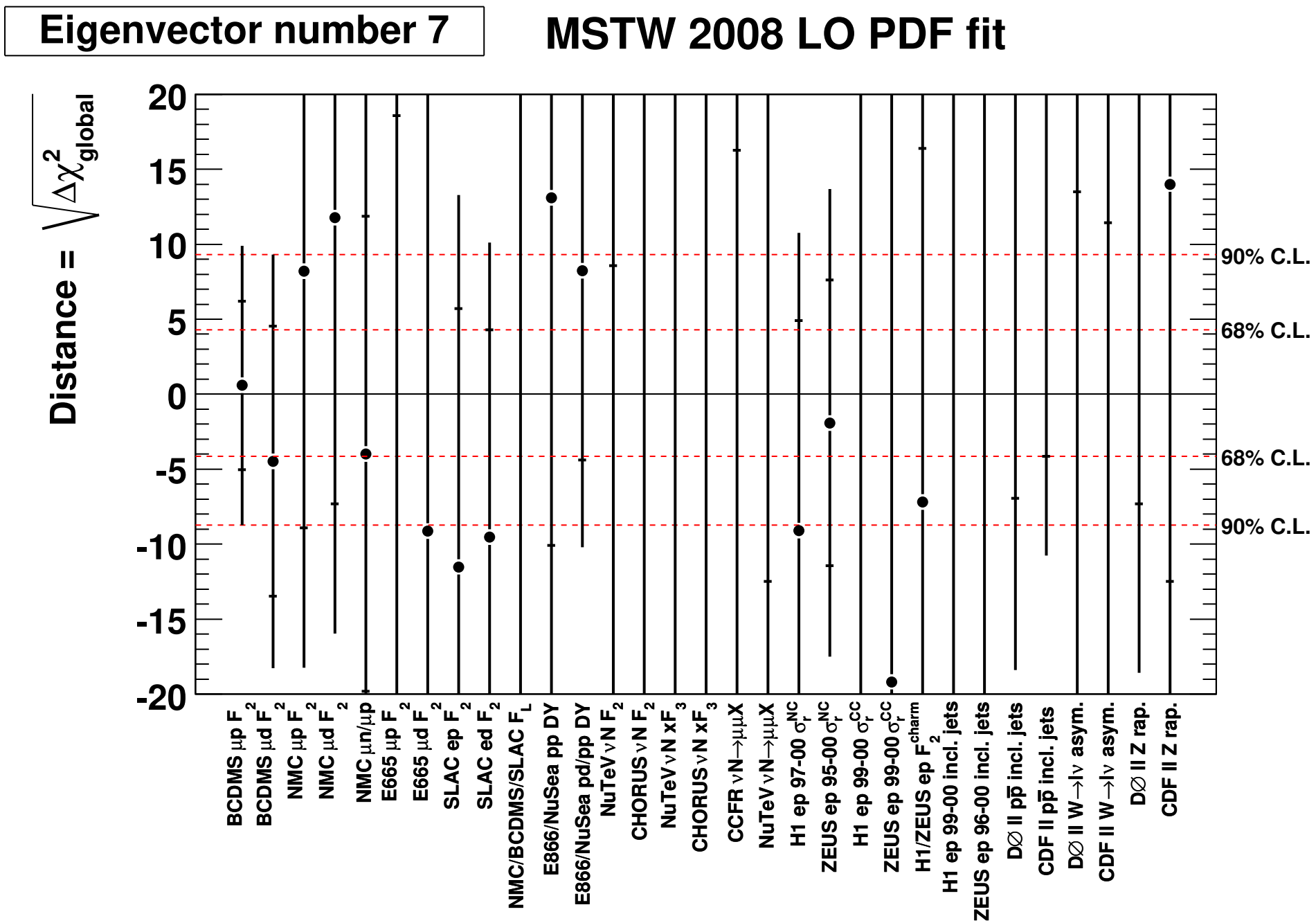

Eigenvector number 2
MSTW 2008 LO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea 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.

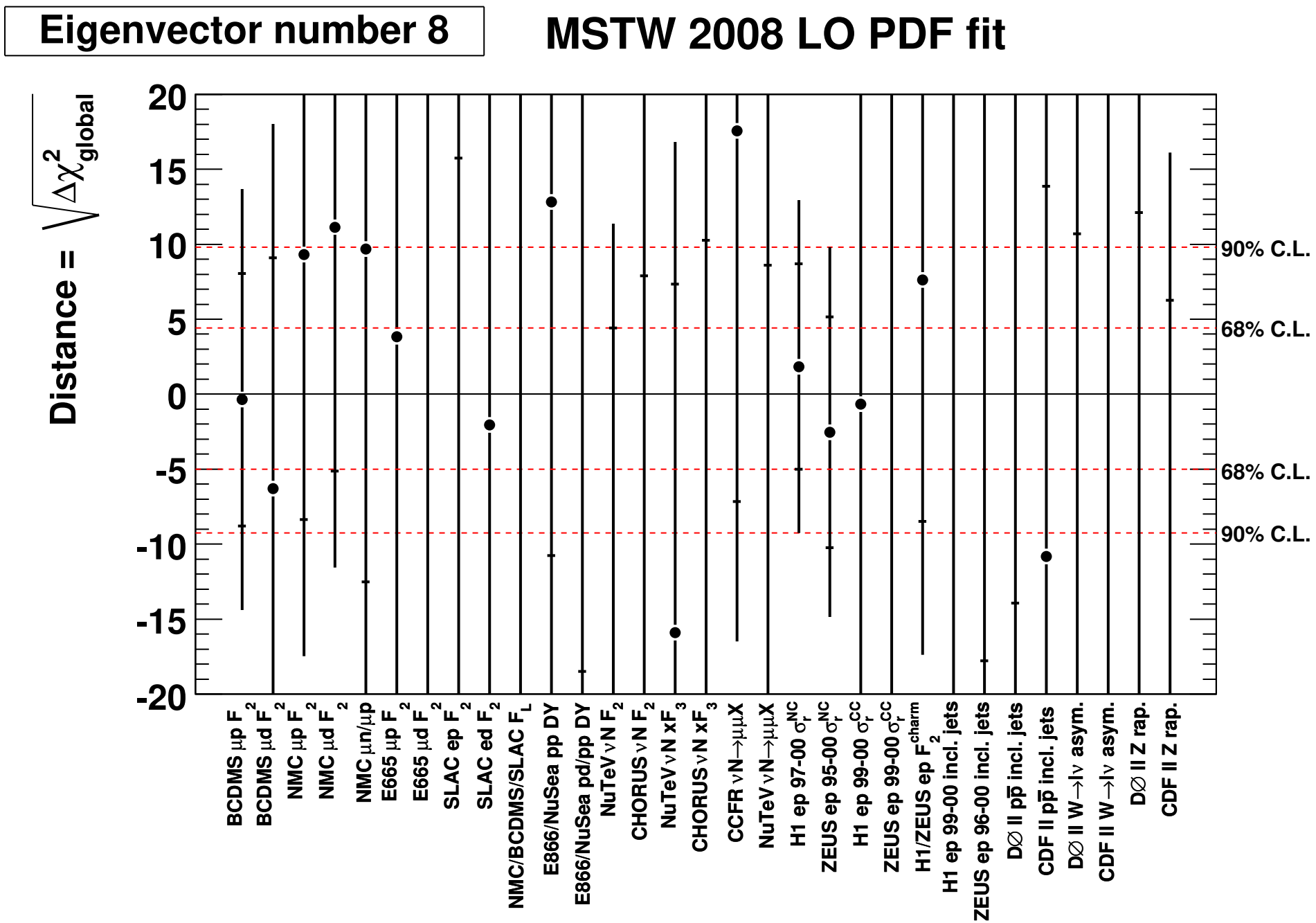

Eigenvector number 3
MSTW 2008 LO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea 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 LO 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 LO 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.

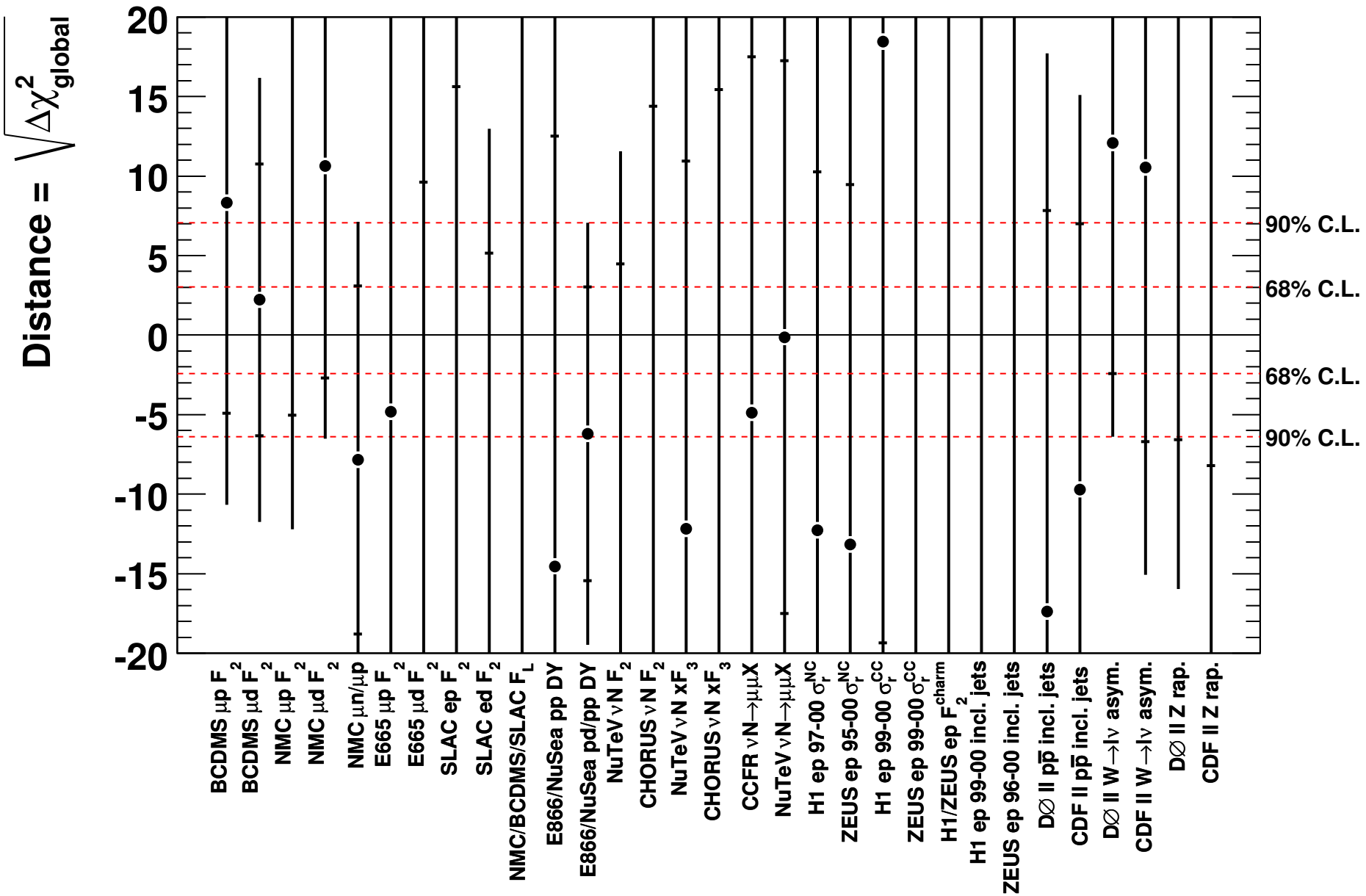

Eigenvector number 6
MSTW 2008 LO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea 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 LO 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 8
MSTW 2008 LO 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.

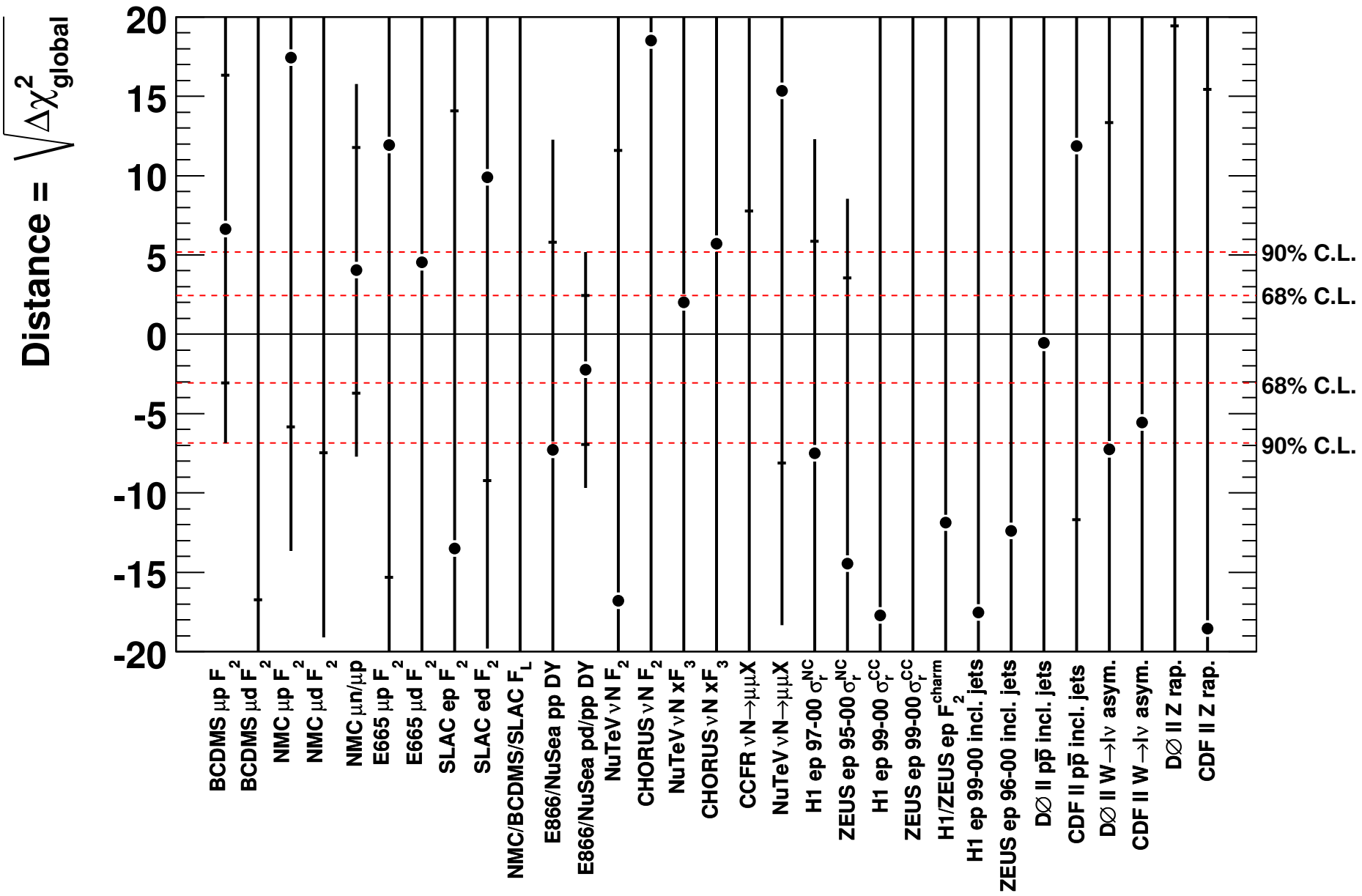
Eigenvector number 9

MSTW 2008 LO PDF fit



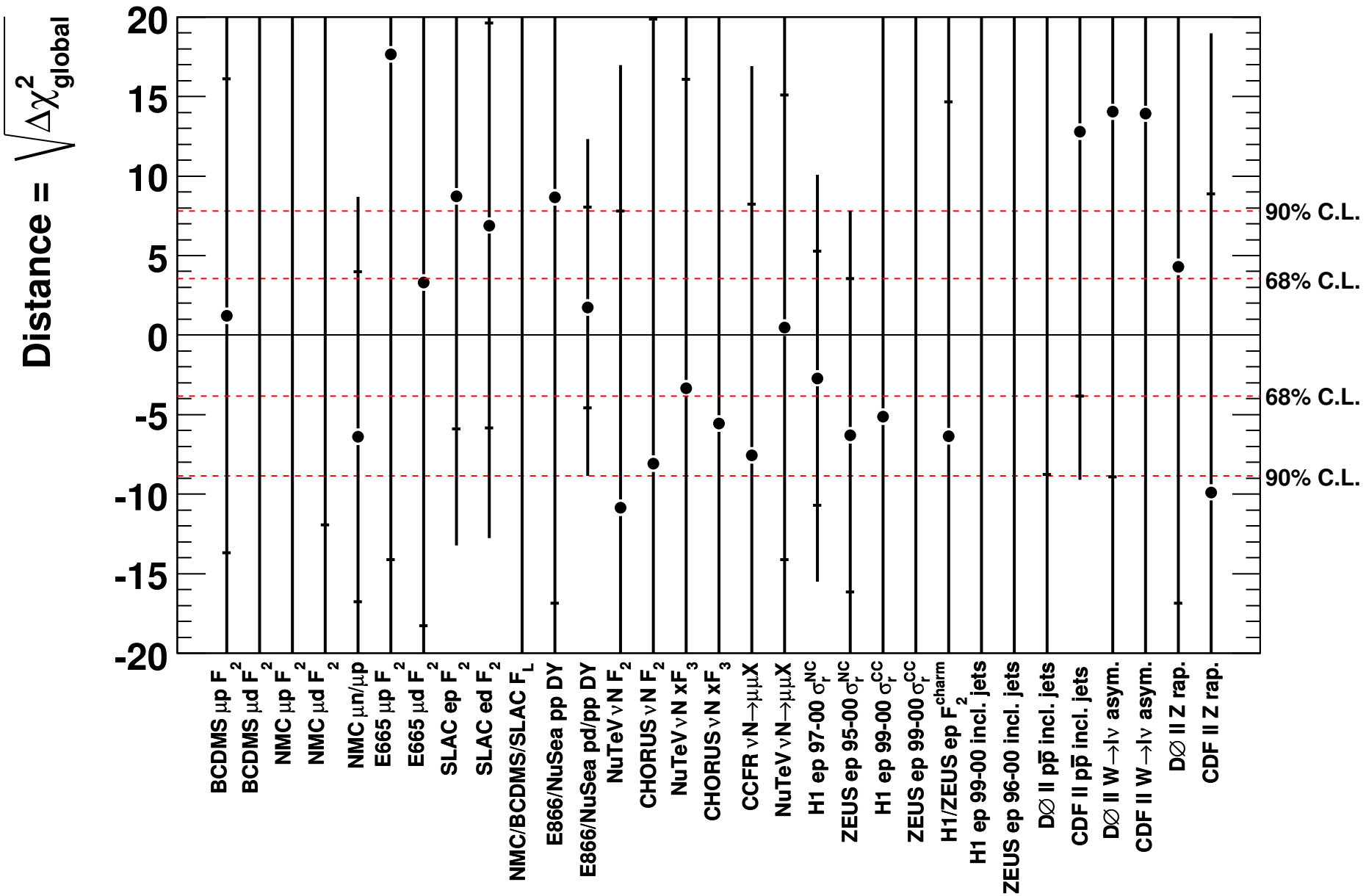
Eigenvector number 10

MSTW 2008 LO PDF fit



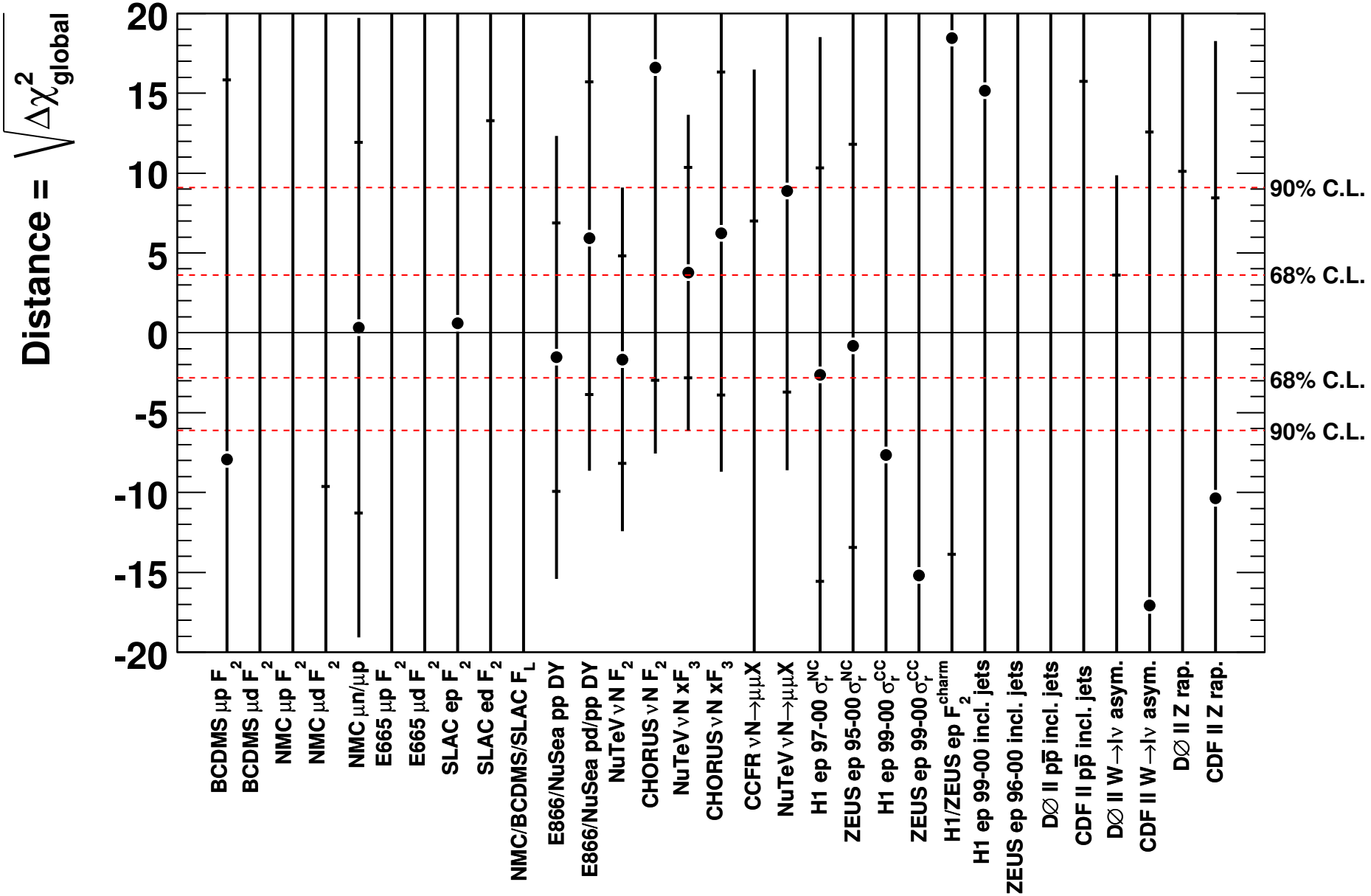
Eigenvector number 11

MSTW 2008 LO PDF fit



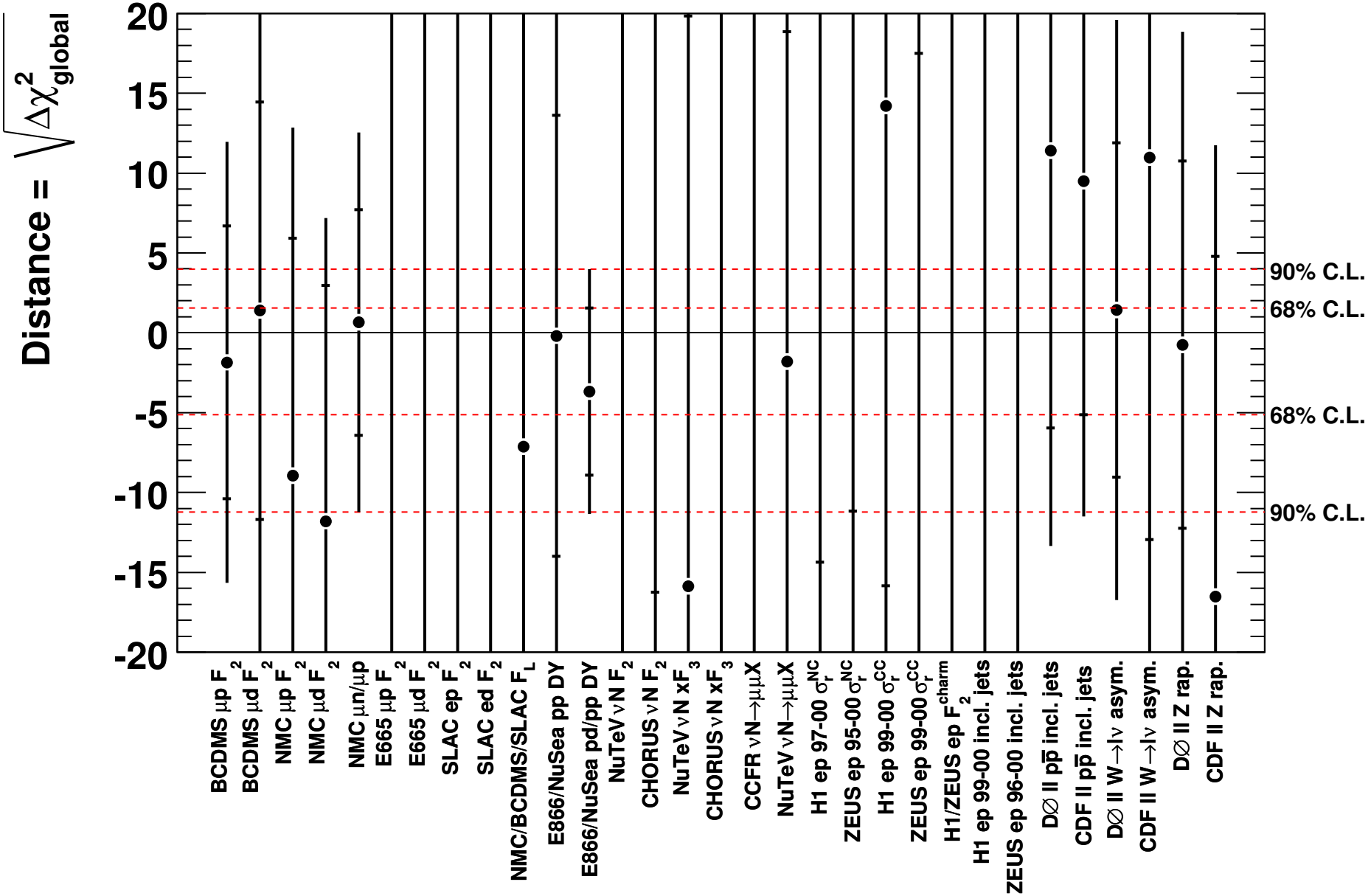
Eigenvector number 12

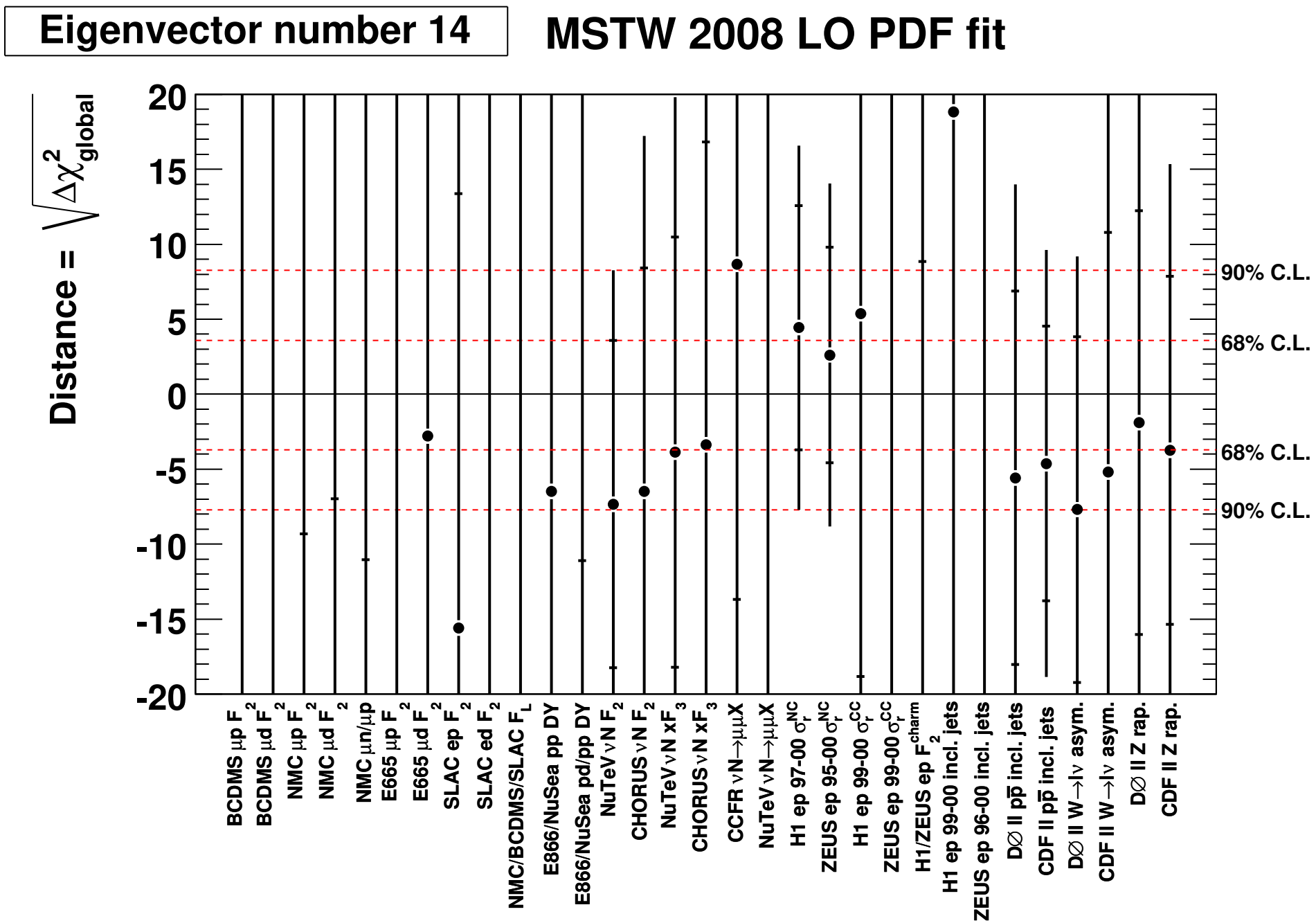
MSTW 2008 LO PDF fit



Eigenvector number 13

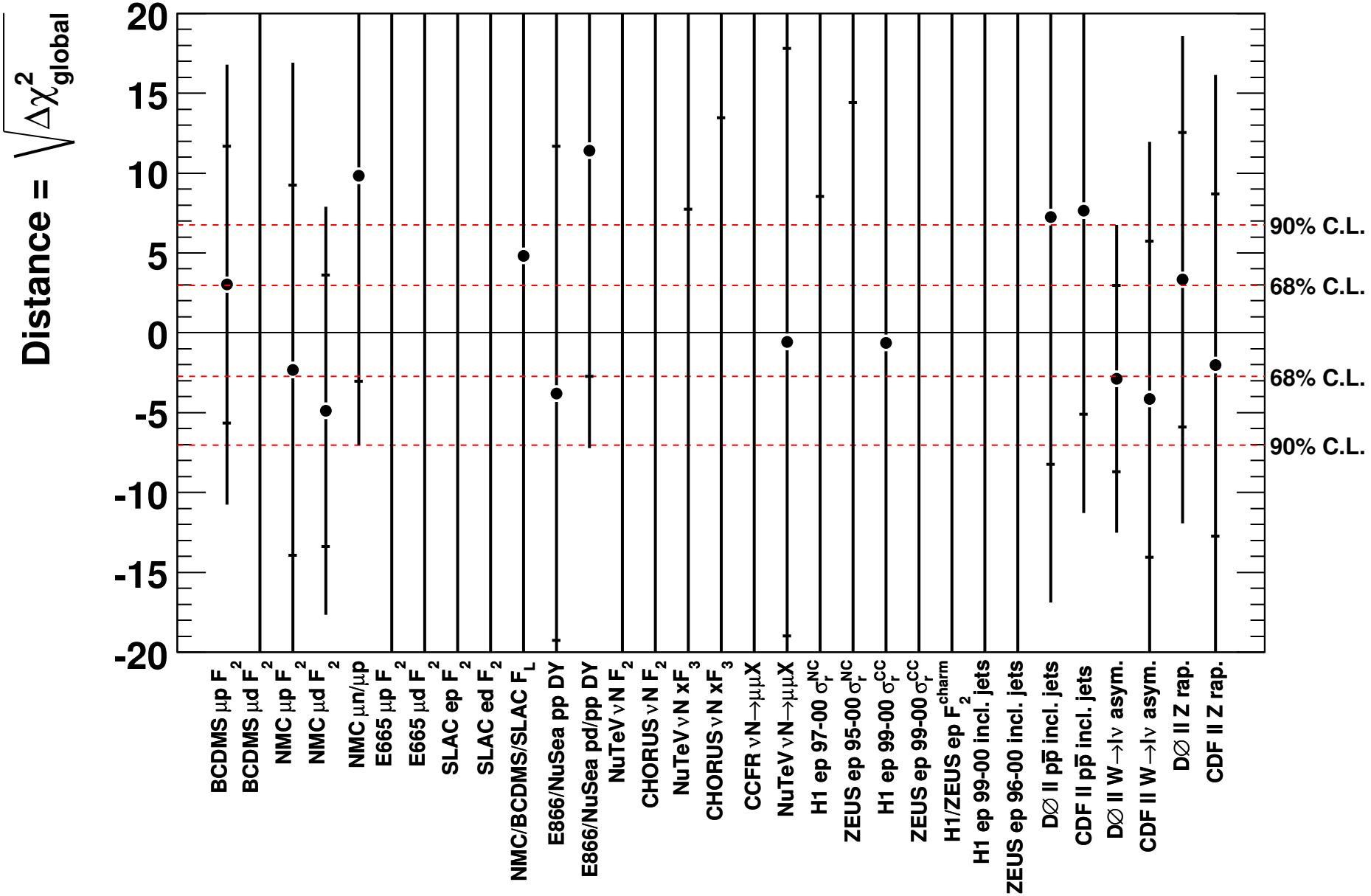
MSTW 2008 LO PDF fit

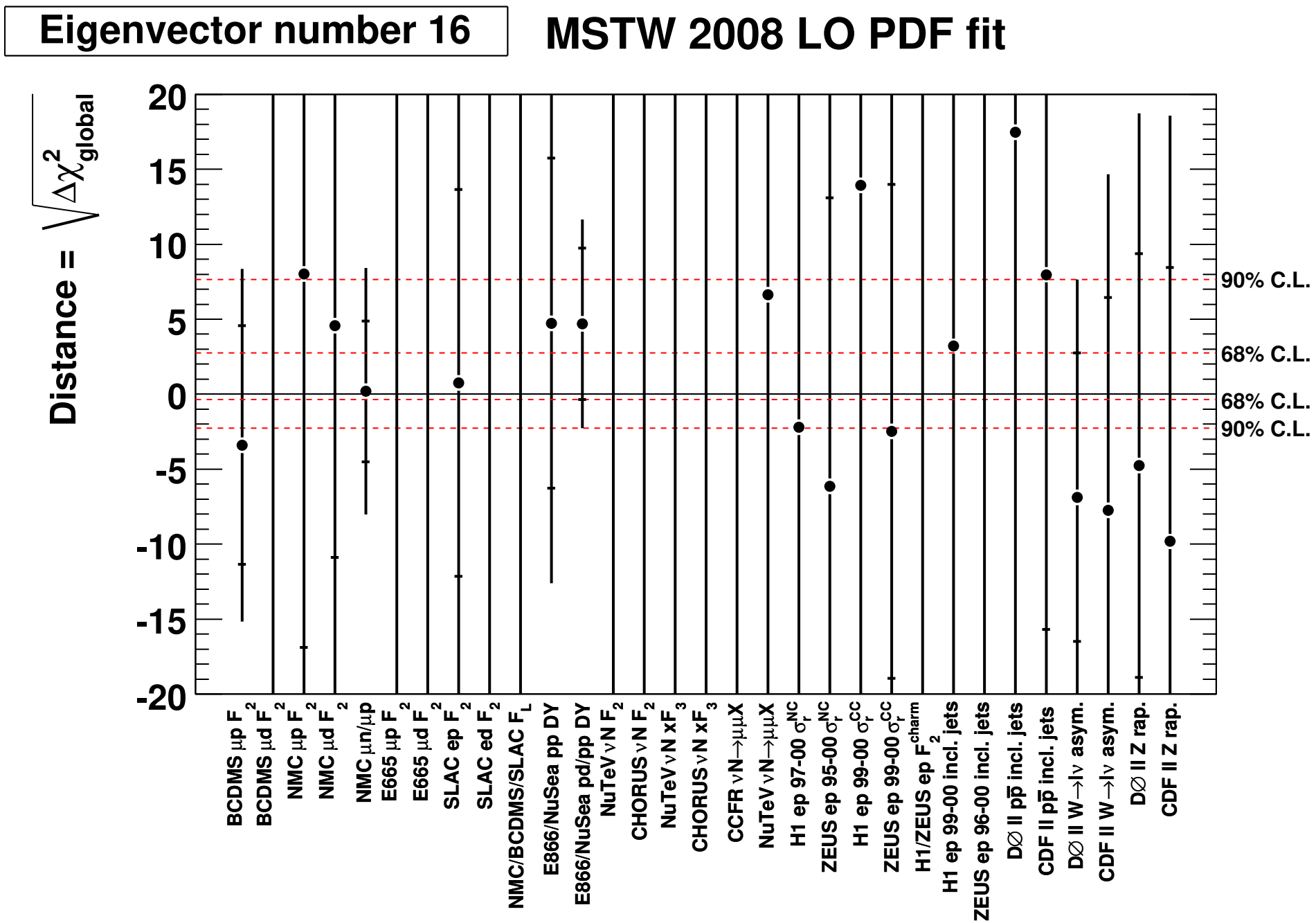


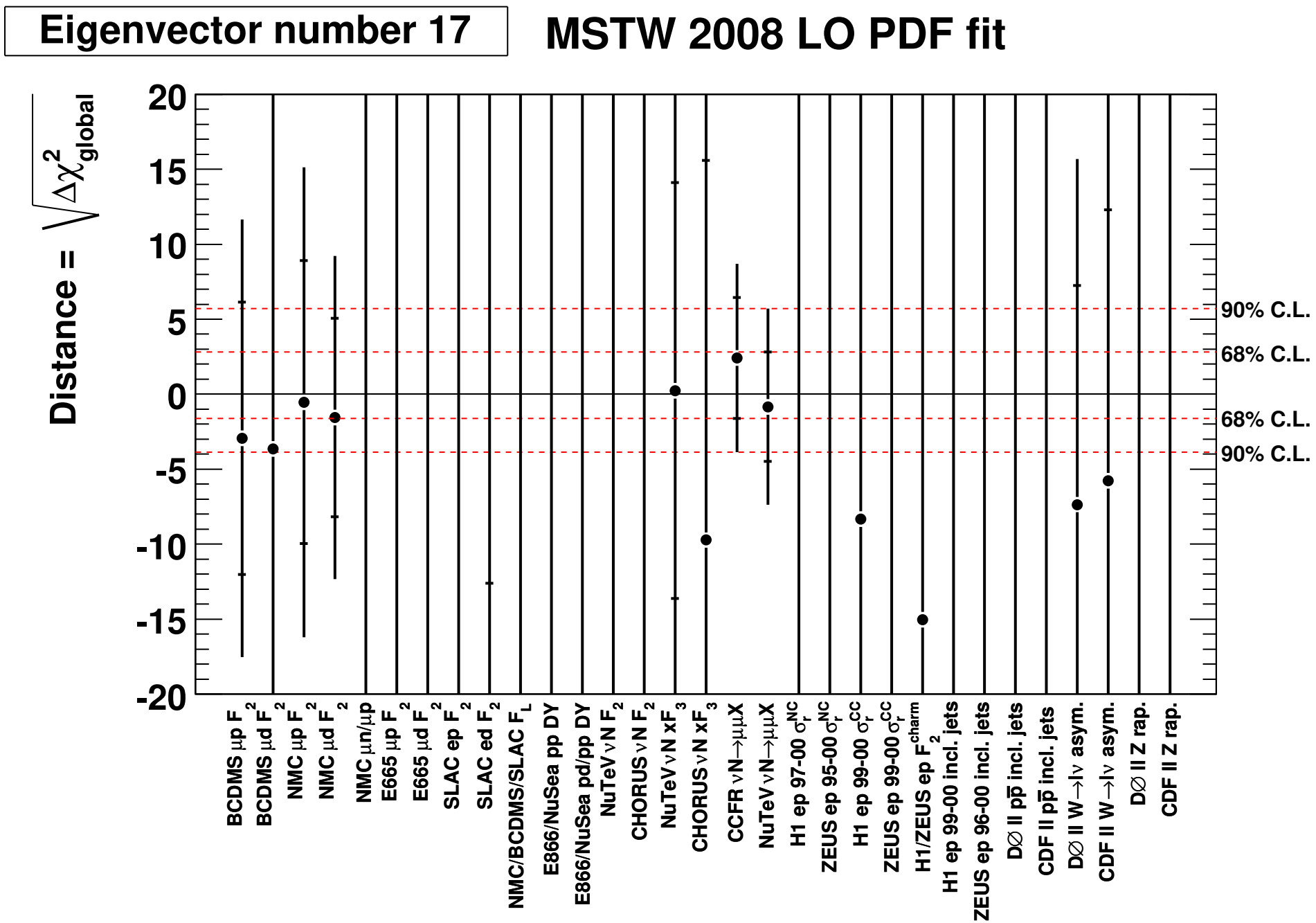

Eigenvector number 14
MSTW 2008 LO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea 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.

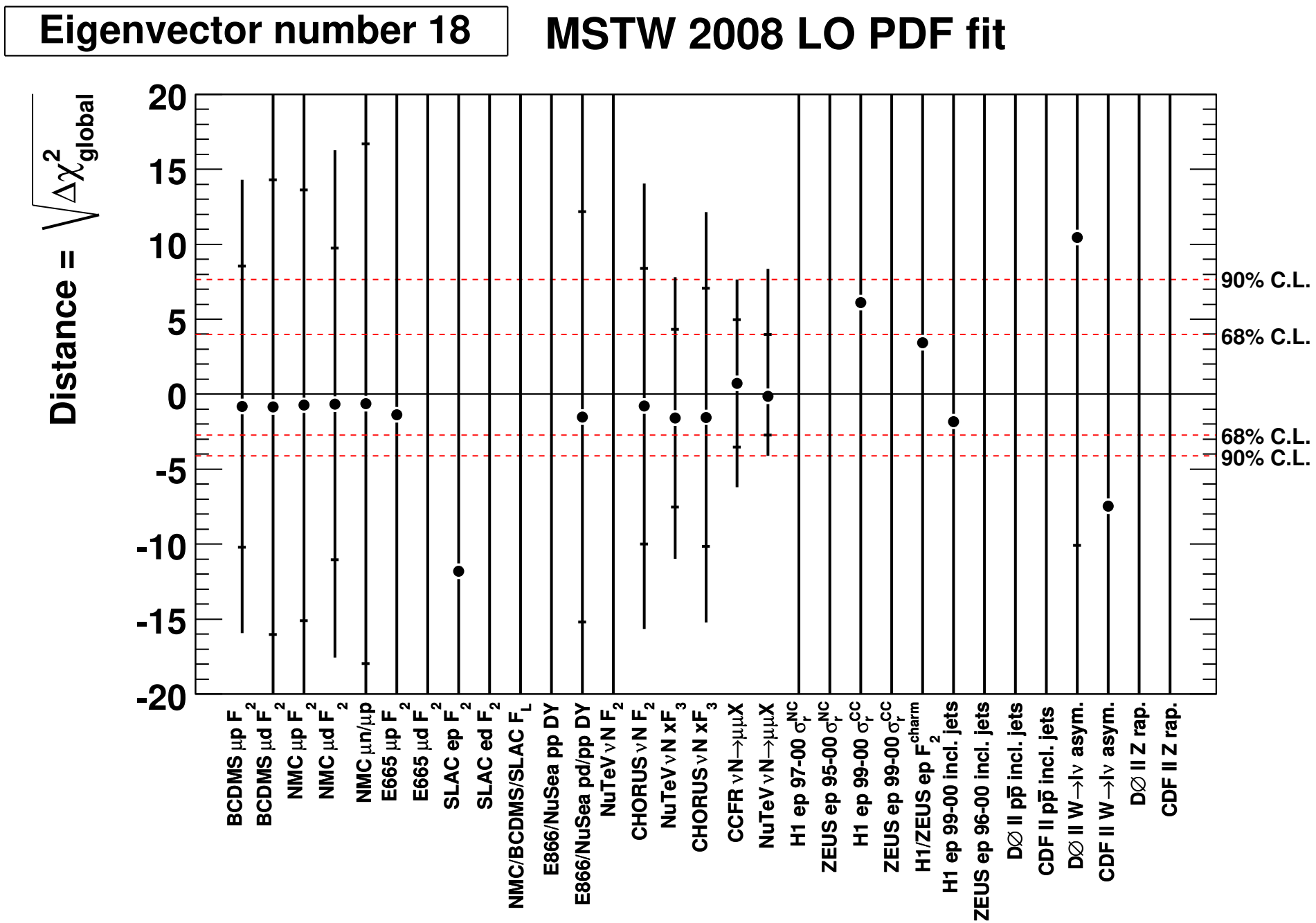
Eigenvector number 15

MSTW 2008 LO PDF fit



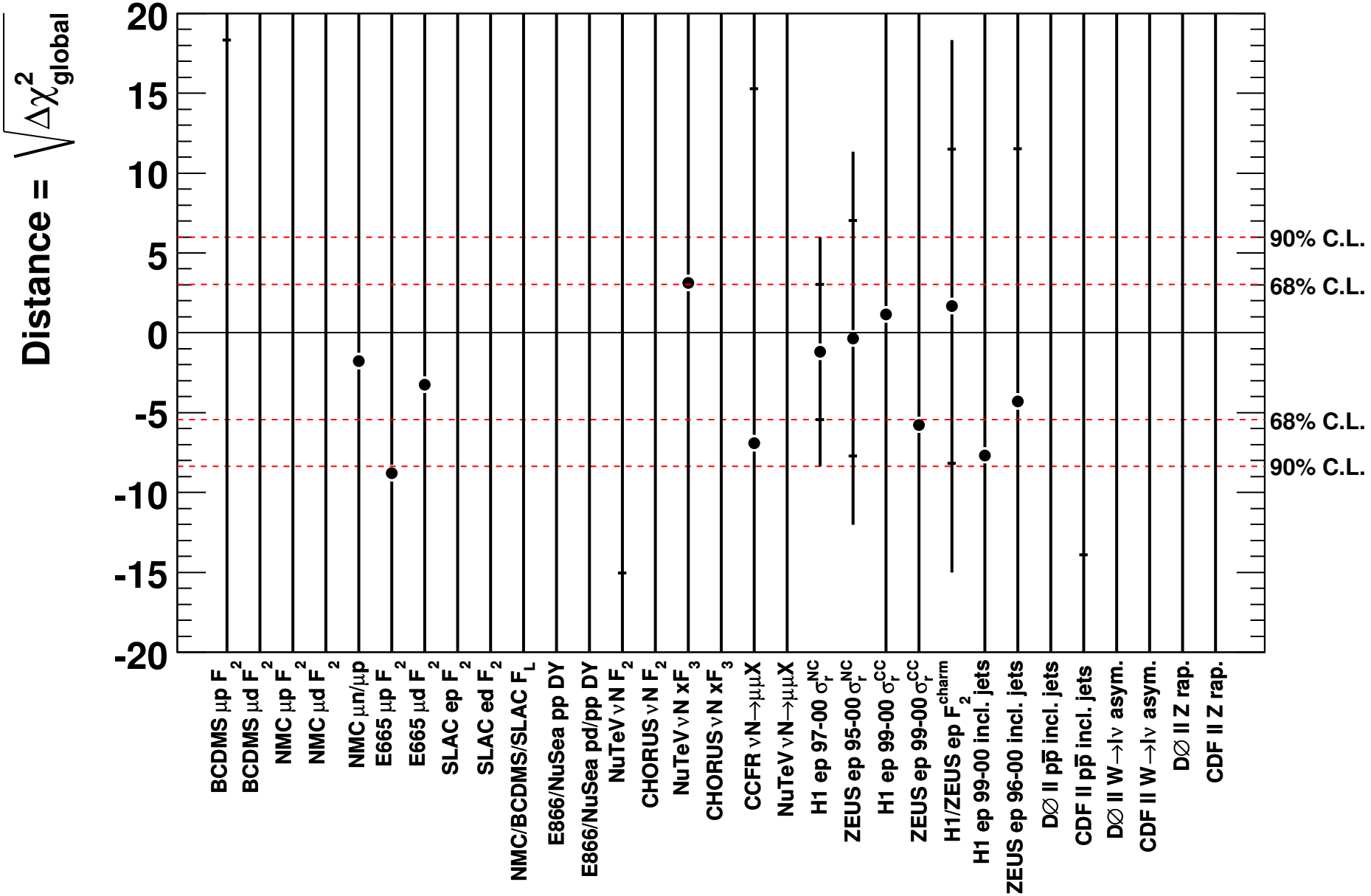

Eigenvector number 16
MSTW 2008 LO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea 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.

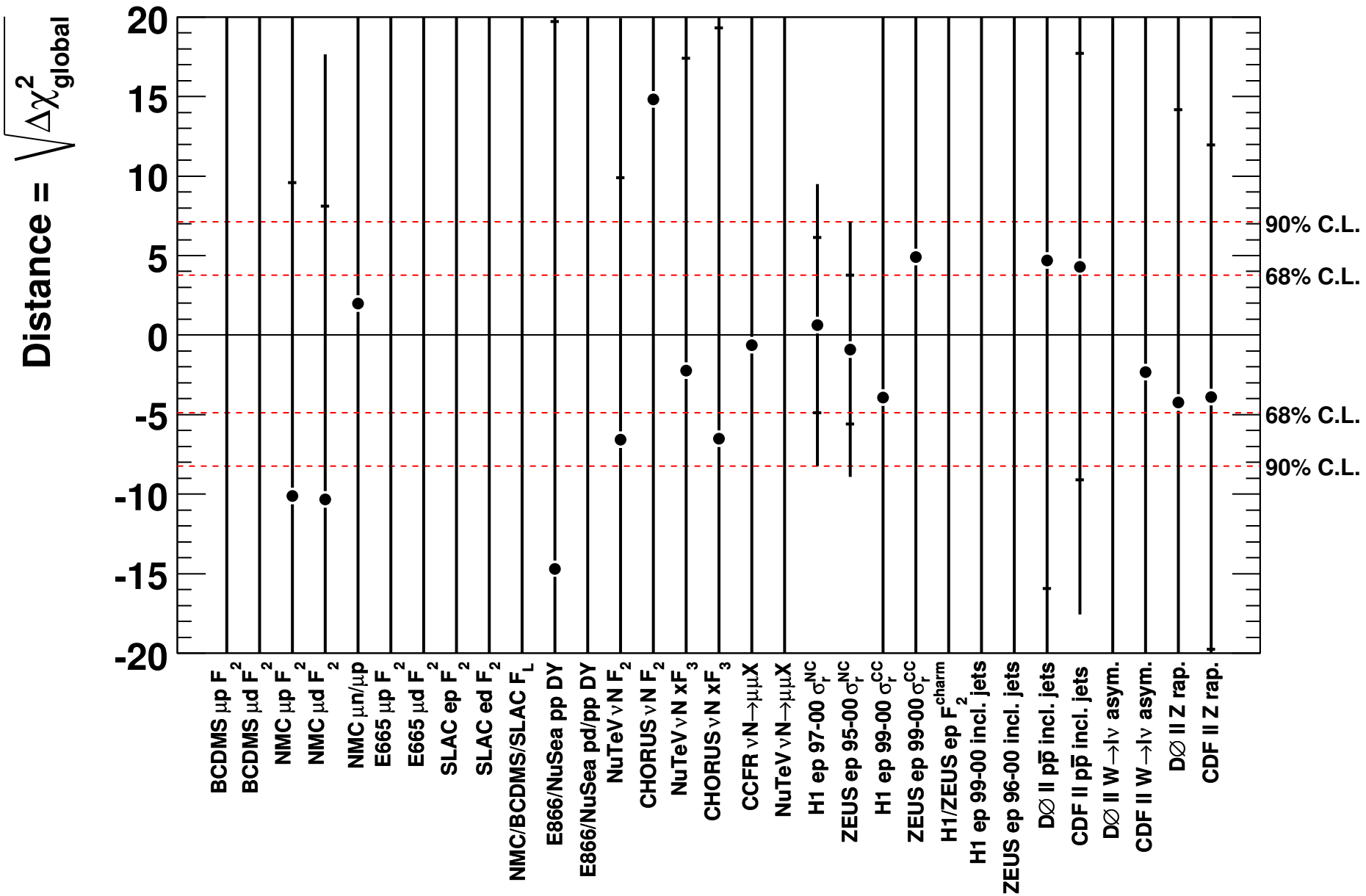

Eigenvector number 17
MSTW 2008 LO PDF fit
Distance = $\sqrt{\Delta\chi^2_{global}}$
20
15
10
5
0
-5
-10
-15
-20
90% C.L.
68% C.L.
68% C.L.
90% C.L.
BCDMS μp F_2
BCDMS μd F_2
NMC μp F_2
NMC μd F_2
NMC μn/μp
E665 μp F_2
E665 μd F_2
SLAC ep F_2
SLAC ed F_2
NMC/BCDMS/SLAC F_L
E866/NuSea pp DY
E866/NuSea 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 LO 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 LO PDF fit



Eigenvector number 20

MSTW 2008 LO PDF fit