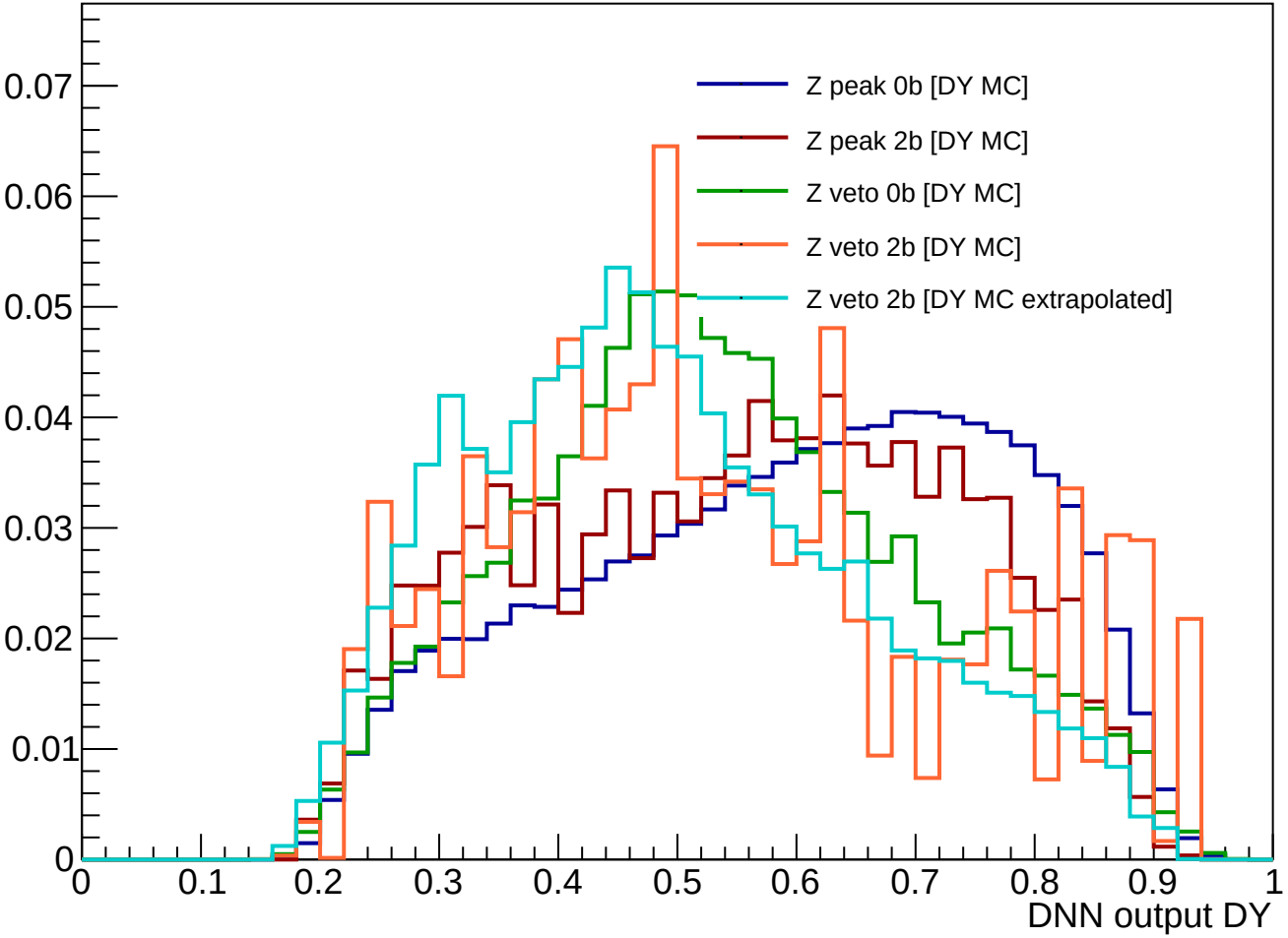
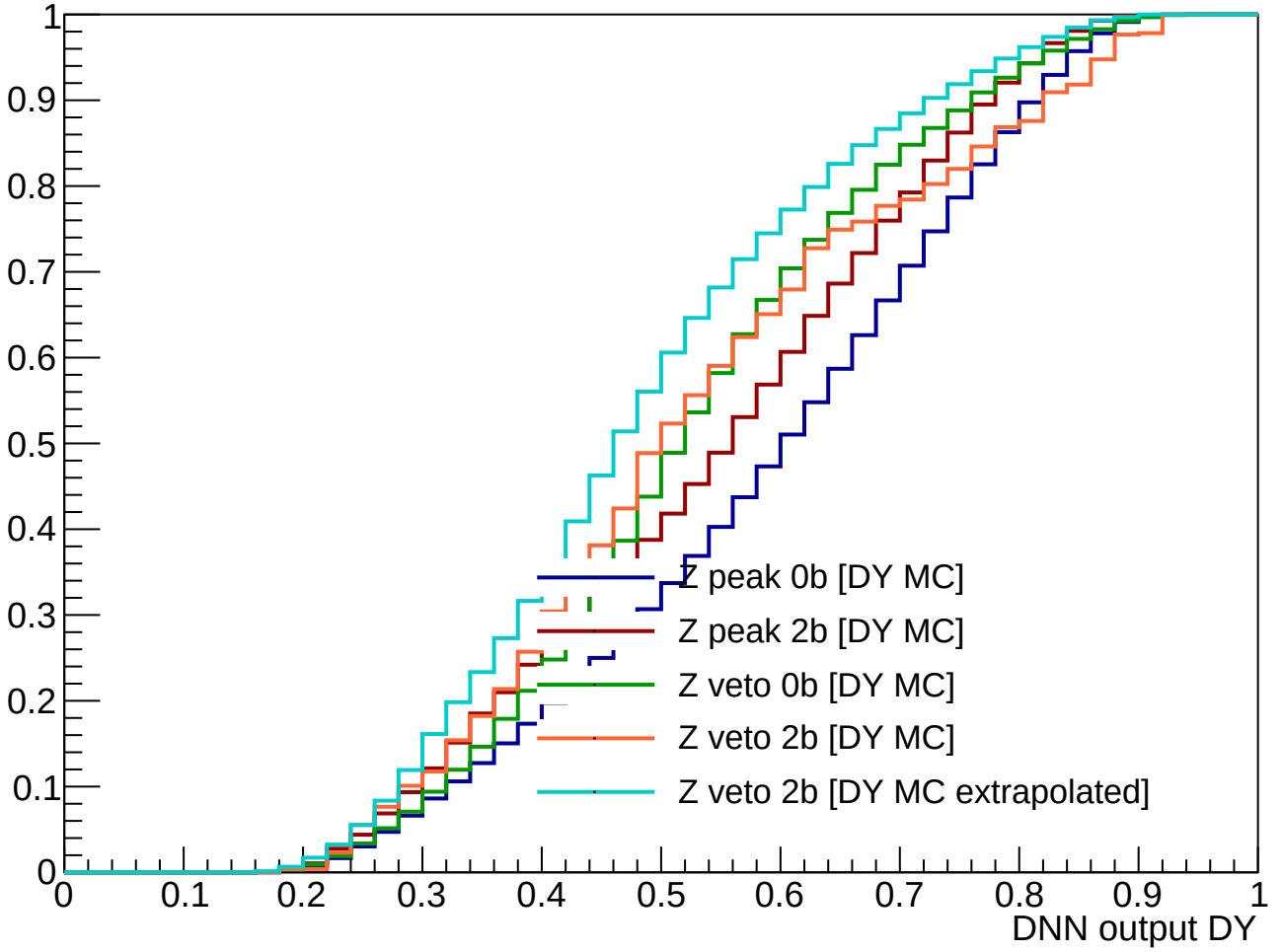
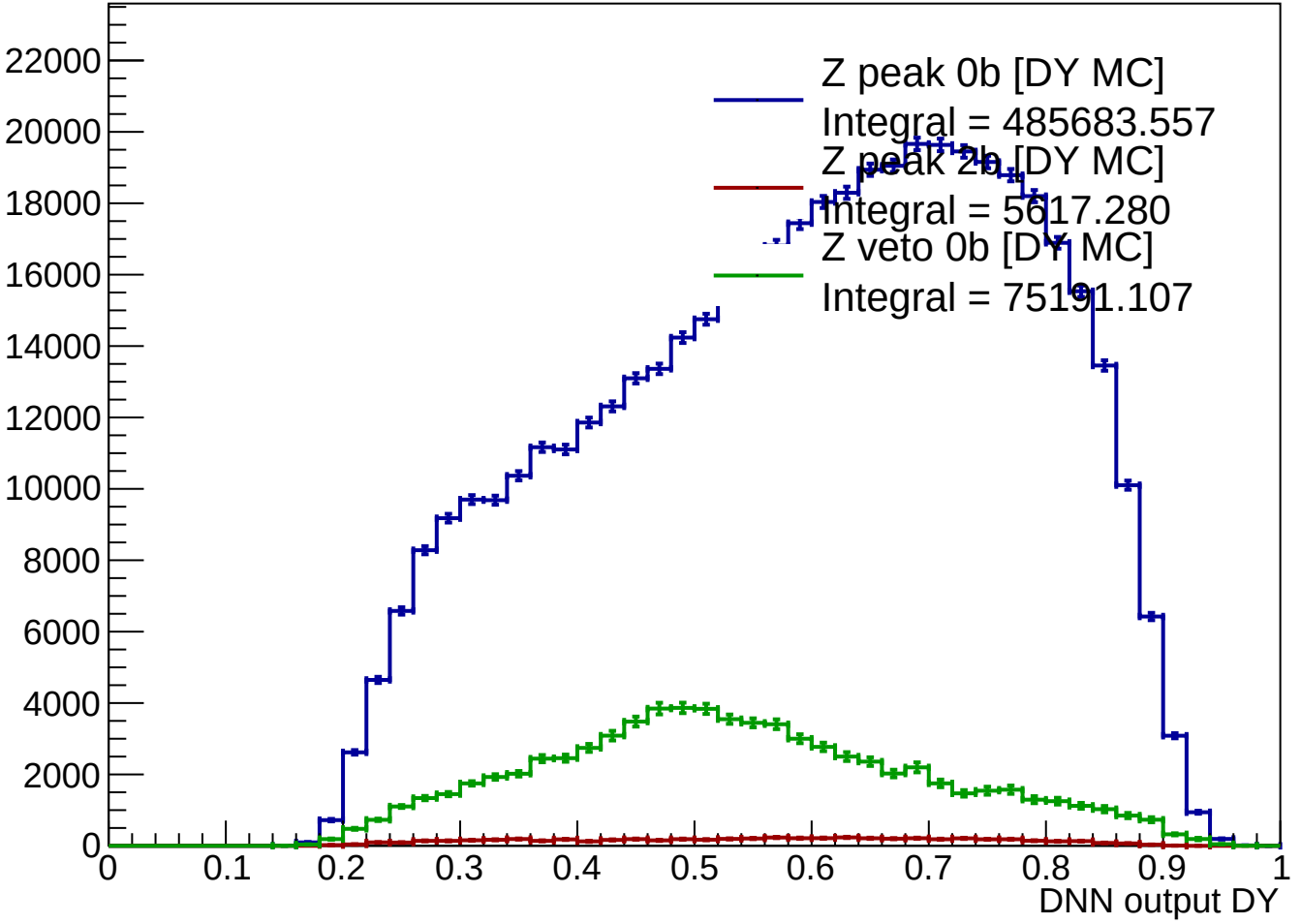
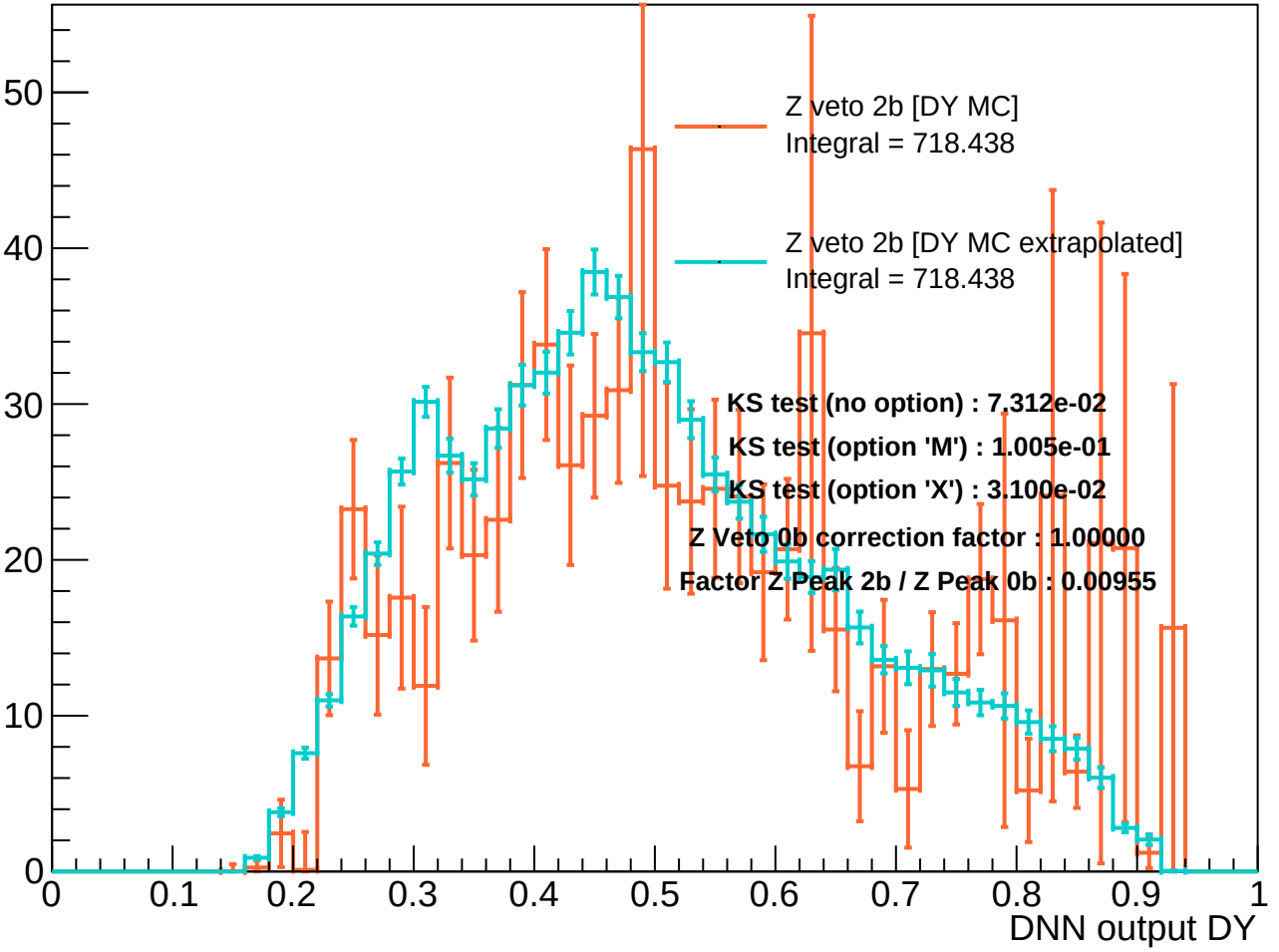
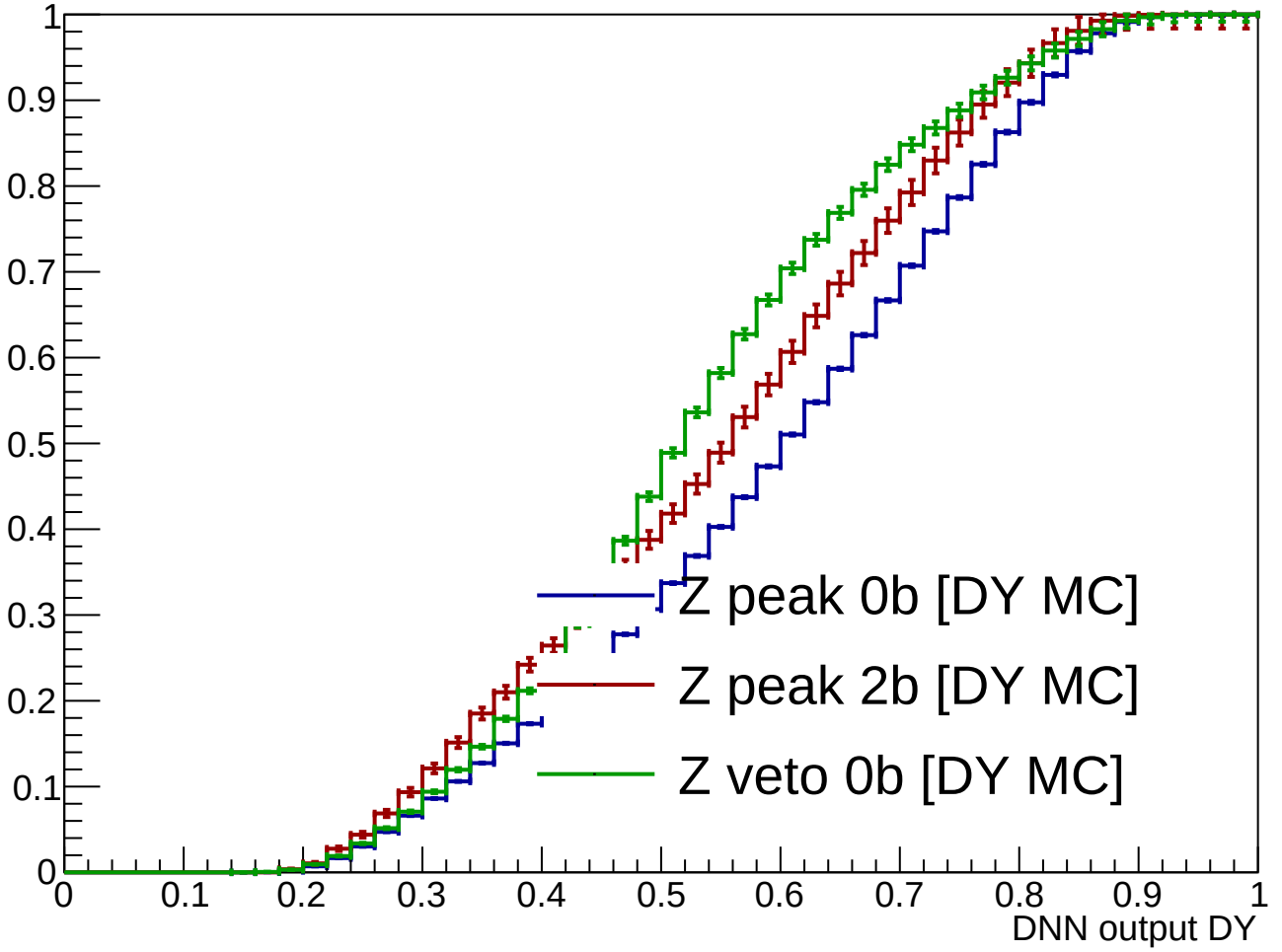
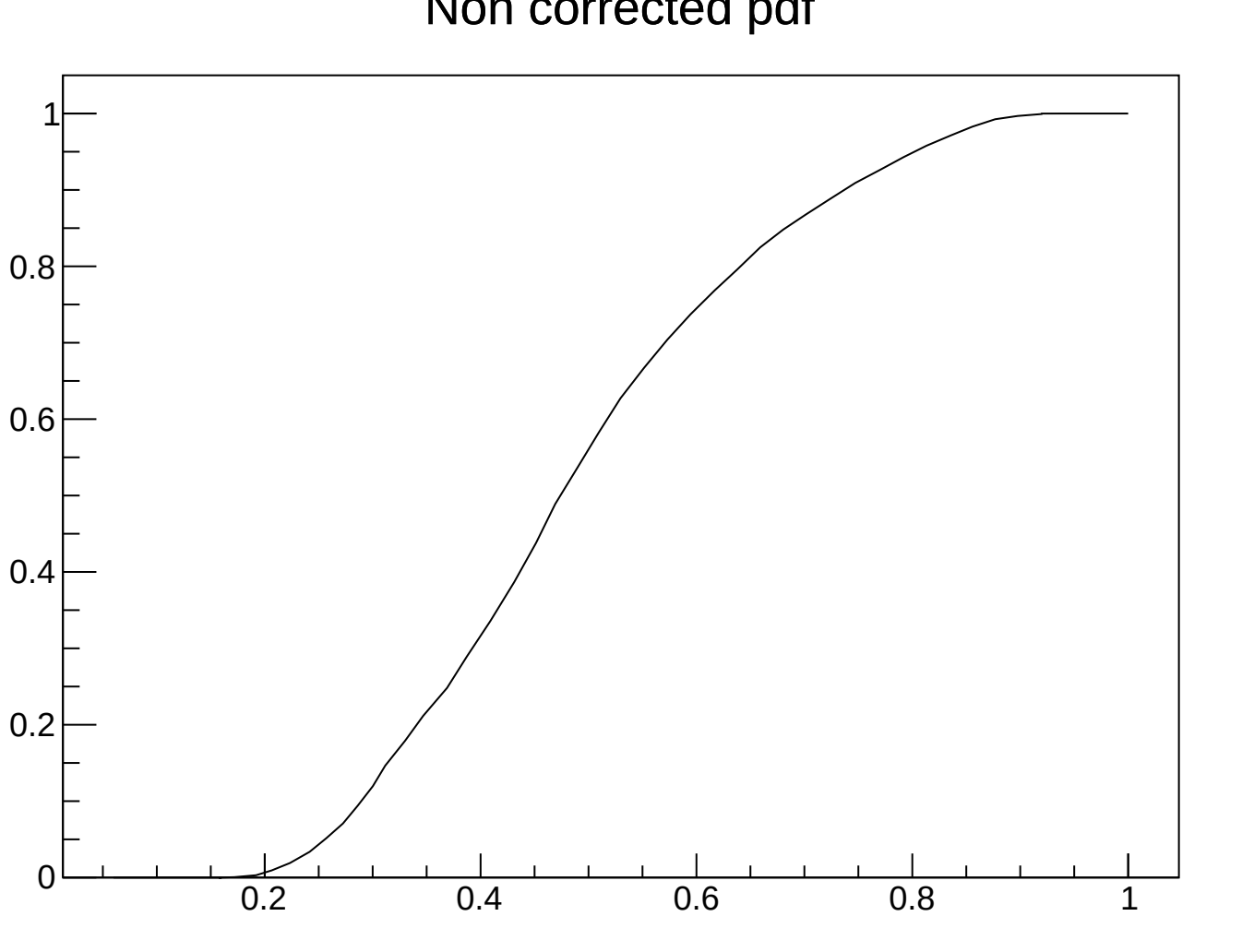

Z peak 0b [DY MC]
Z peak 2b [DY MC]
Z veto 0b [DY MC]
Z veto 2b [DY MC]
Z veto 2b [DY MC extrapolated]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY

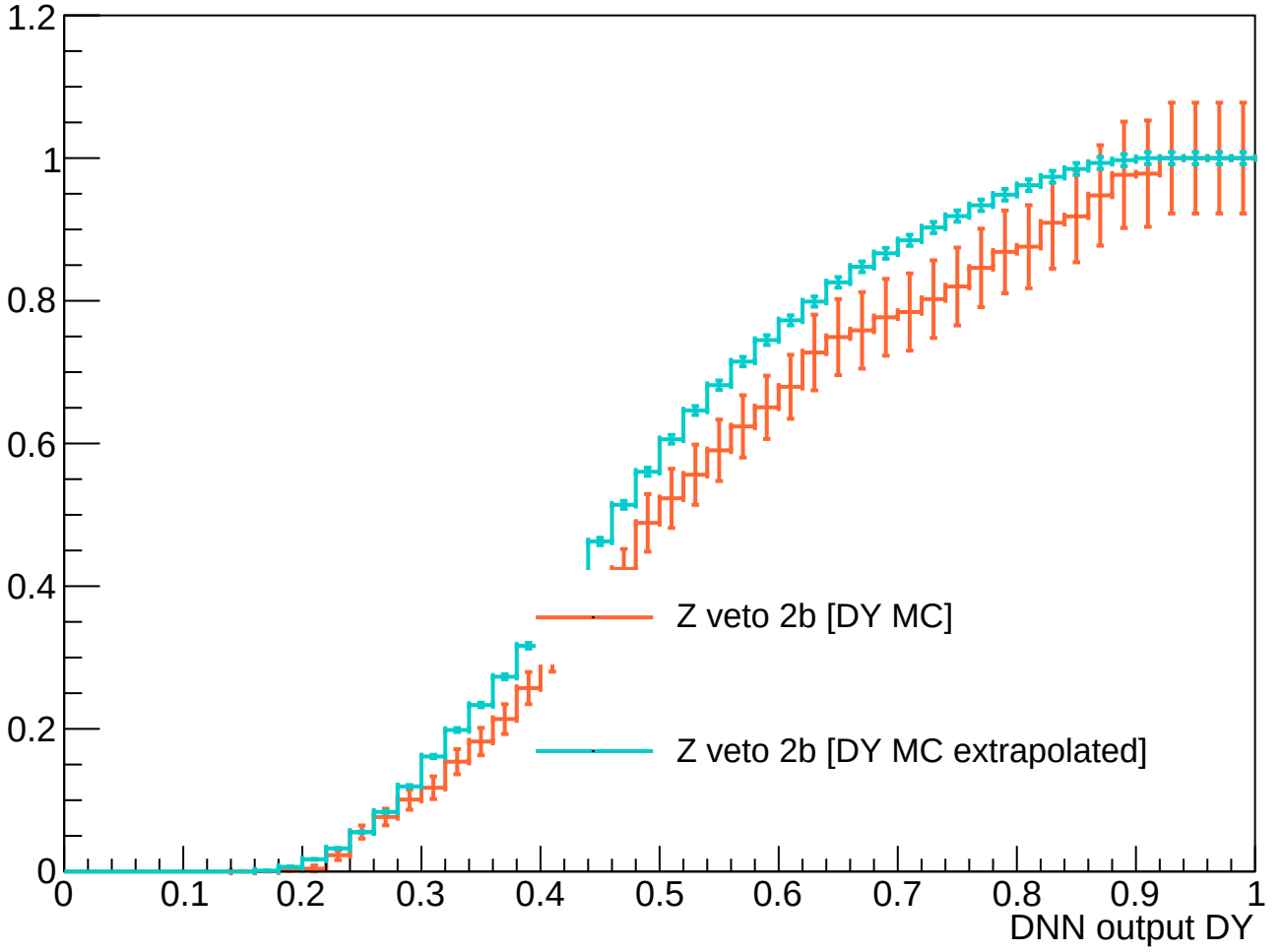

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY
Z peak 0b [DY MC]
Z peak 2b [DY MC]
Z veto 0b [DY MC]
Z veto 2b [DY MC]
Z veto 2b [DY MC extrapolated]

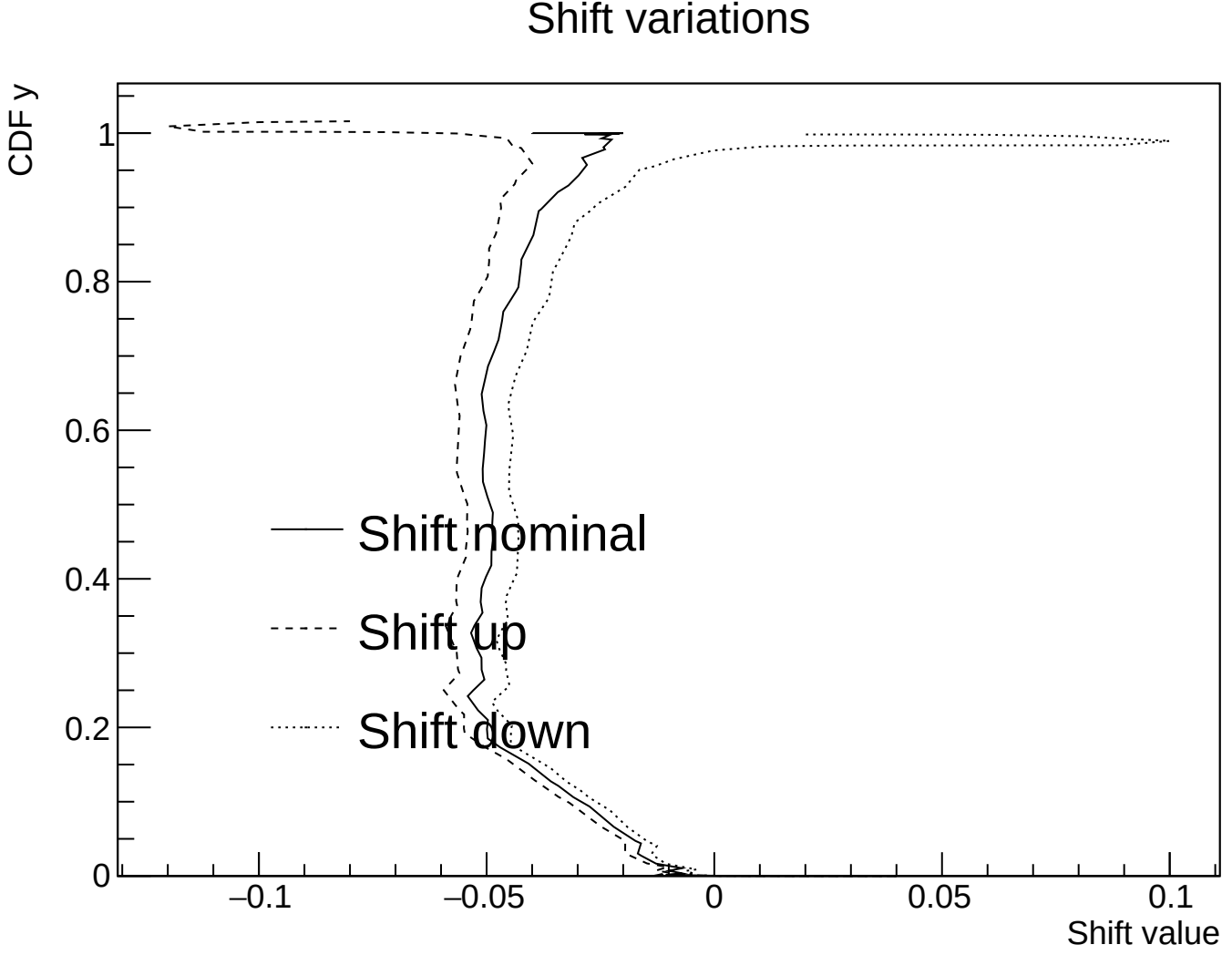

Z peak 0b [DY MC]
Integral = 485683.557
Z peak 2b [DY MC]
Integral = 5617.280
Z veto 0b [DY MC]
Integral = 75191.107
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY

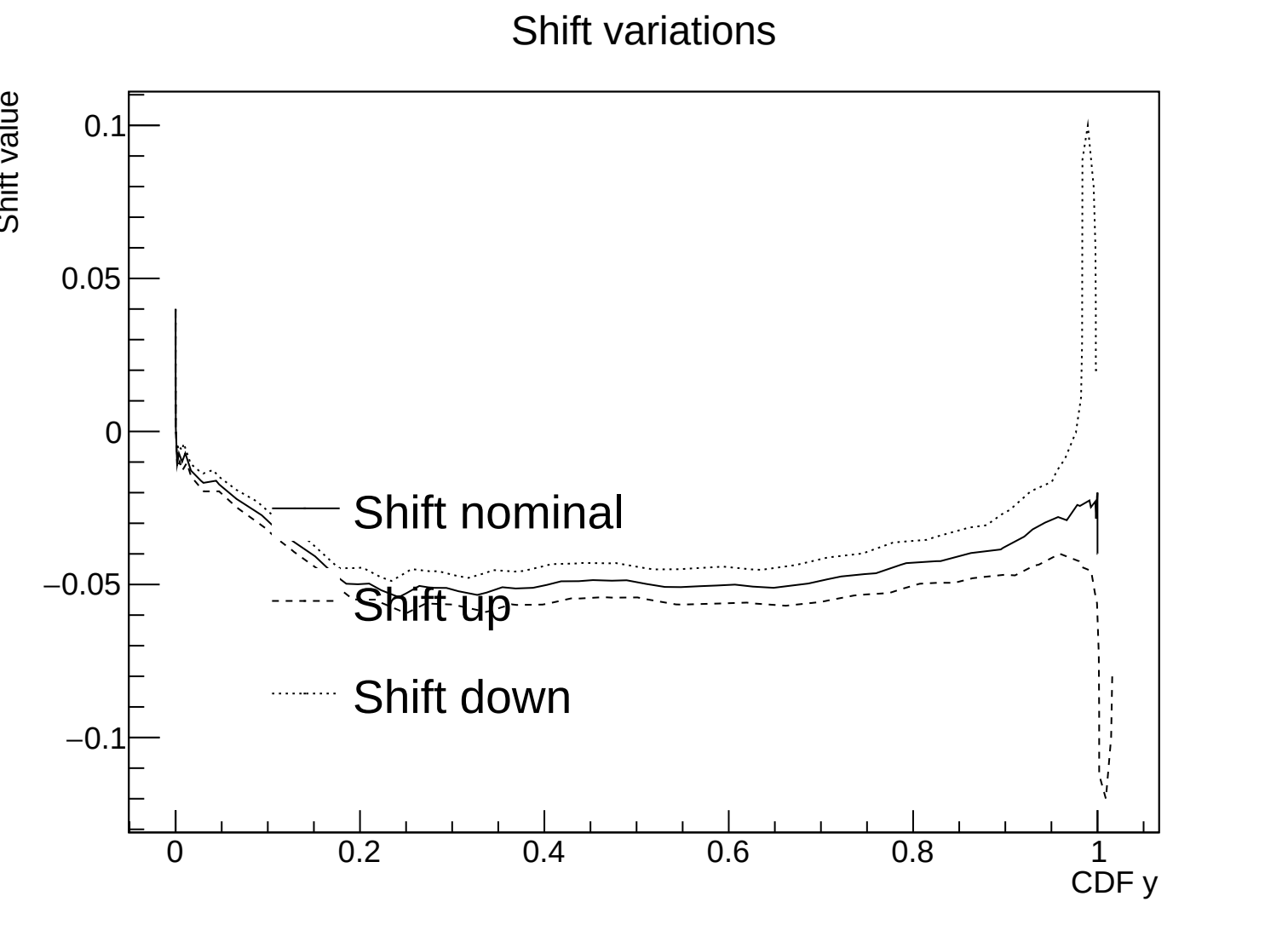

Z veto 2b [DY MC]
Integral = 718.438
Z veto 2b [DY MC extrapolated]
Integral = 718.438
KS test (no option) : 7.312e-02
KS test (option 'M') : 1.005e-01
KS test (option 'X') : 3.100e-02
Z Veto 0b correction factor : 1.00000
Factor Z Peak 2b / Z Peak 0b : 0.00955
0
10
20
30
40
50
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY

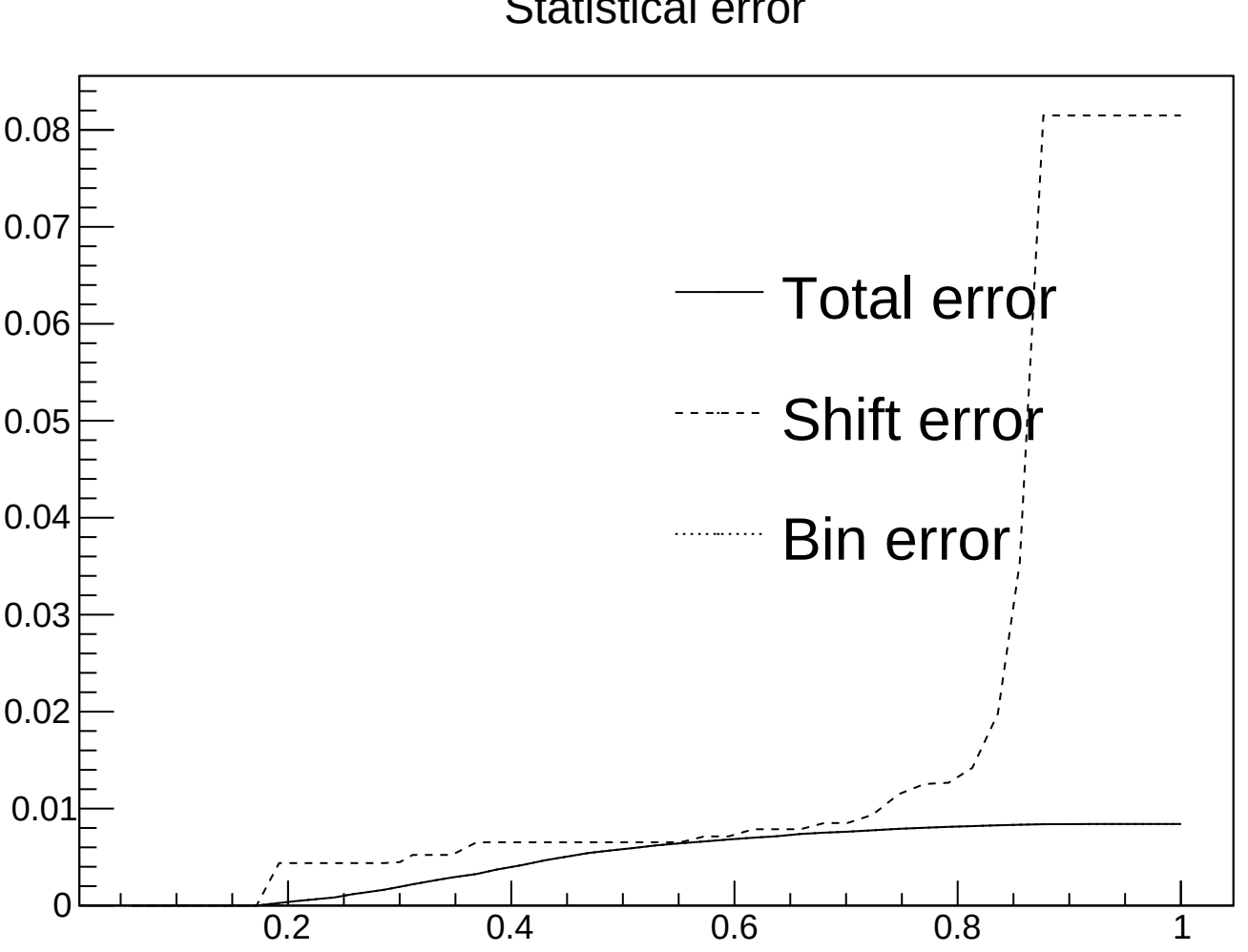

Z peak 0b [DY MC]
Z peak 2b [DY MC]
Z veto 0b [DY MC]
DNN output DY
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1


Non corrected pdf
1
0.8
0.6
0.4
0.2
0
0.2
0.4
0.6
0.8
1


1.2
1
0.8
0.6
0.4
0.2
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY
Z veto 2b [DY MC]
Z veto 2b [DY MC extrapolated]


Shift variations
CDF y
1
0.8
0.6
0.4
0.2
0
–0.1
–0.05
0
0.05
0.1
Shift value
Shift nominal
Shift up
Shift down


Shift variations
Shift value
0.1
0.05
0
−0.05
−0.1
0
0.2
0.4
0.6
0.8
1
CDF y
Shift nominal
Shift up
Shift down


Statistical error
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0.2
0.4
0.6
0.8
1
Total error
Shift error
Bin error