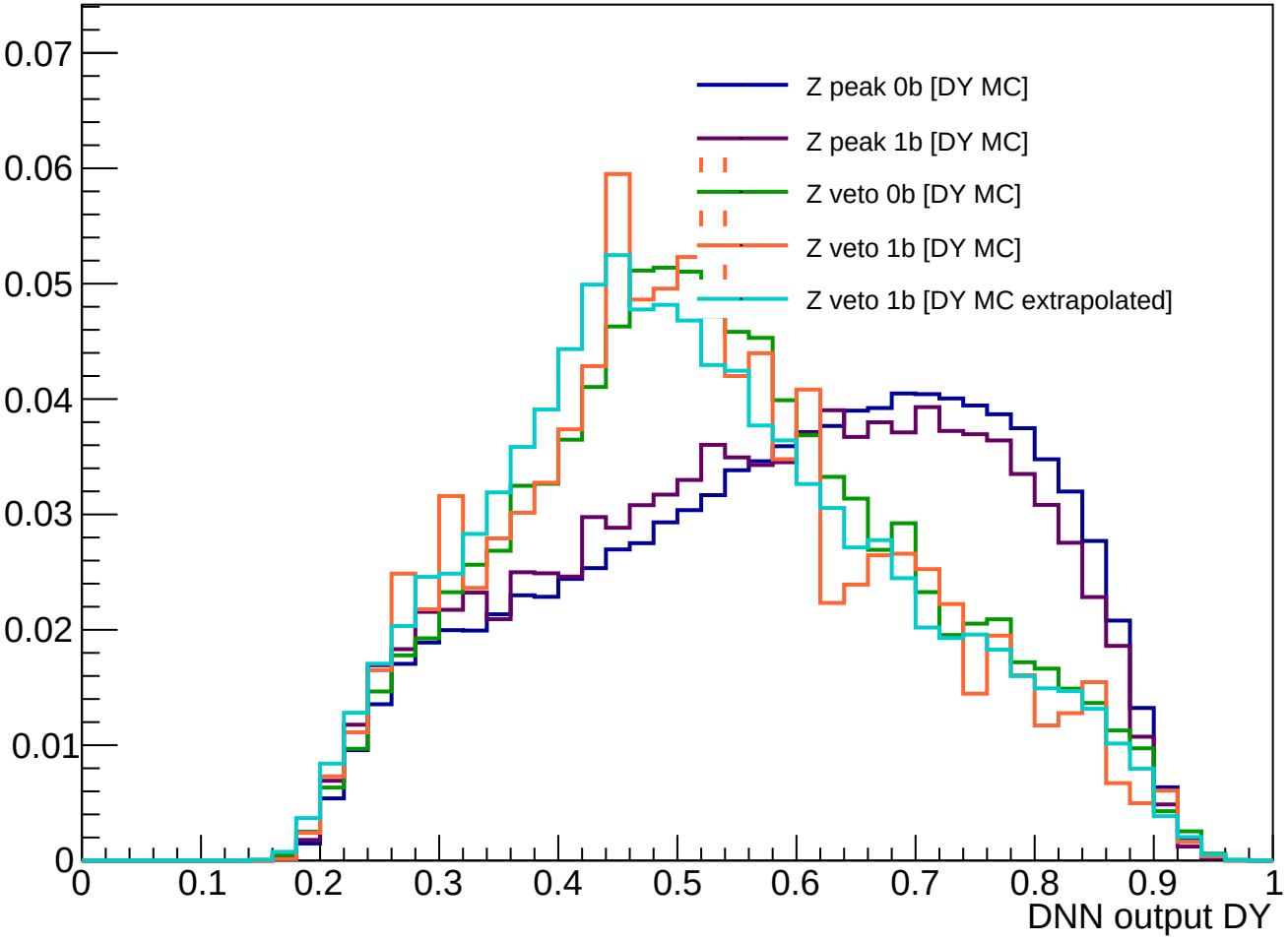
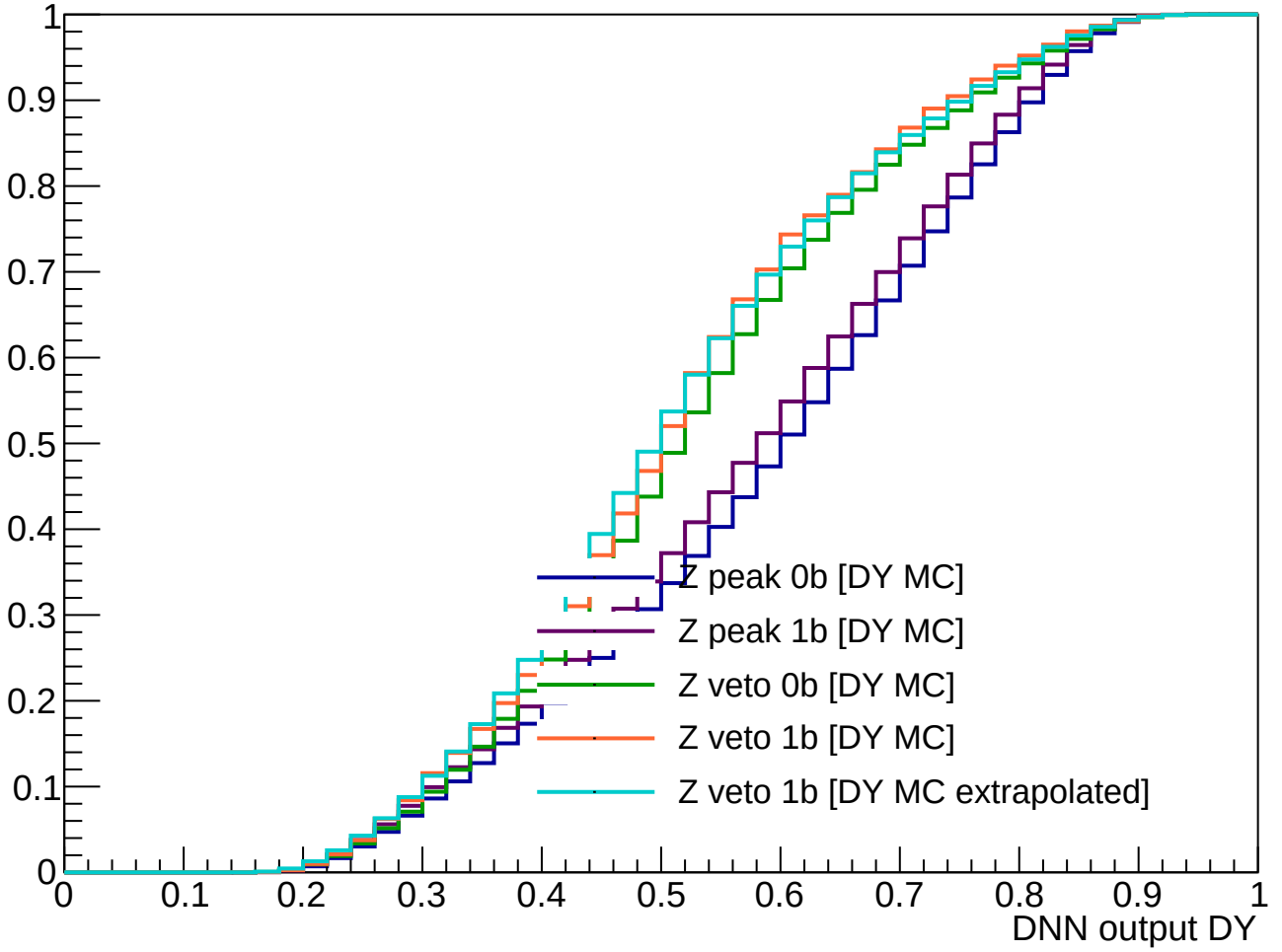
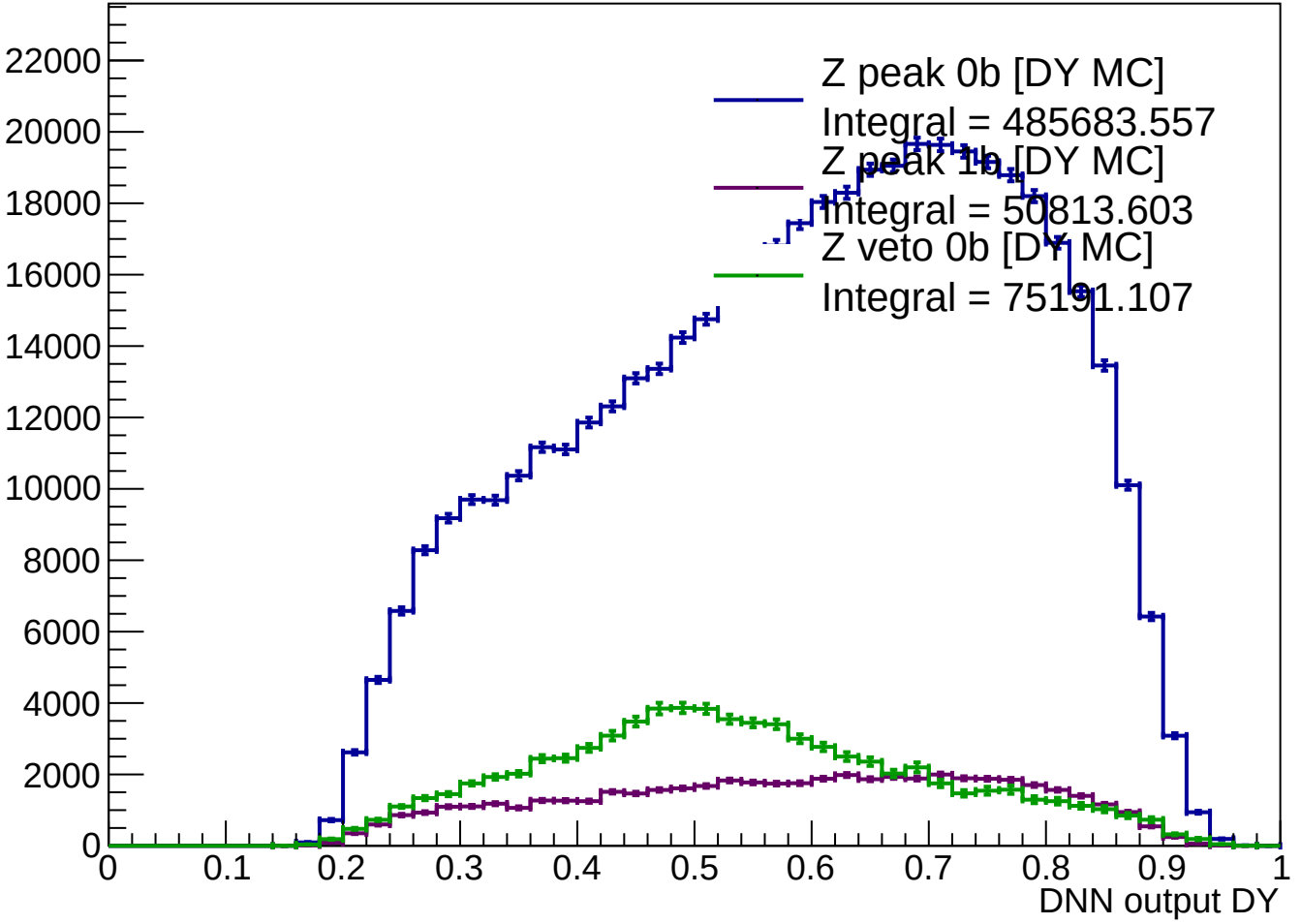
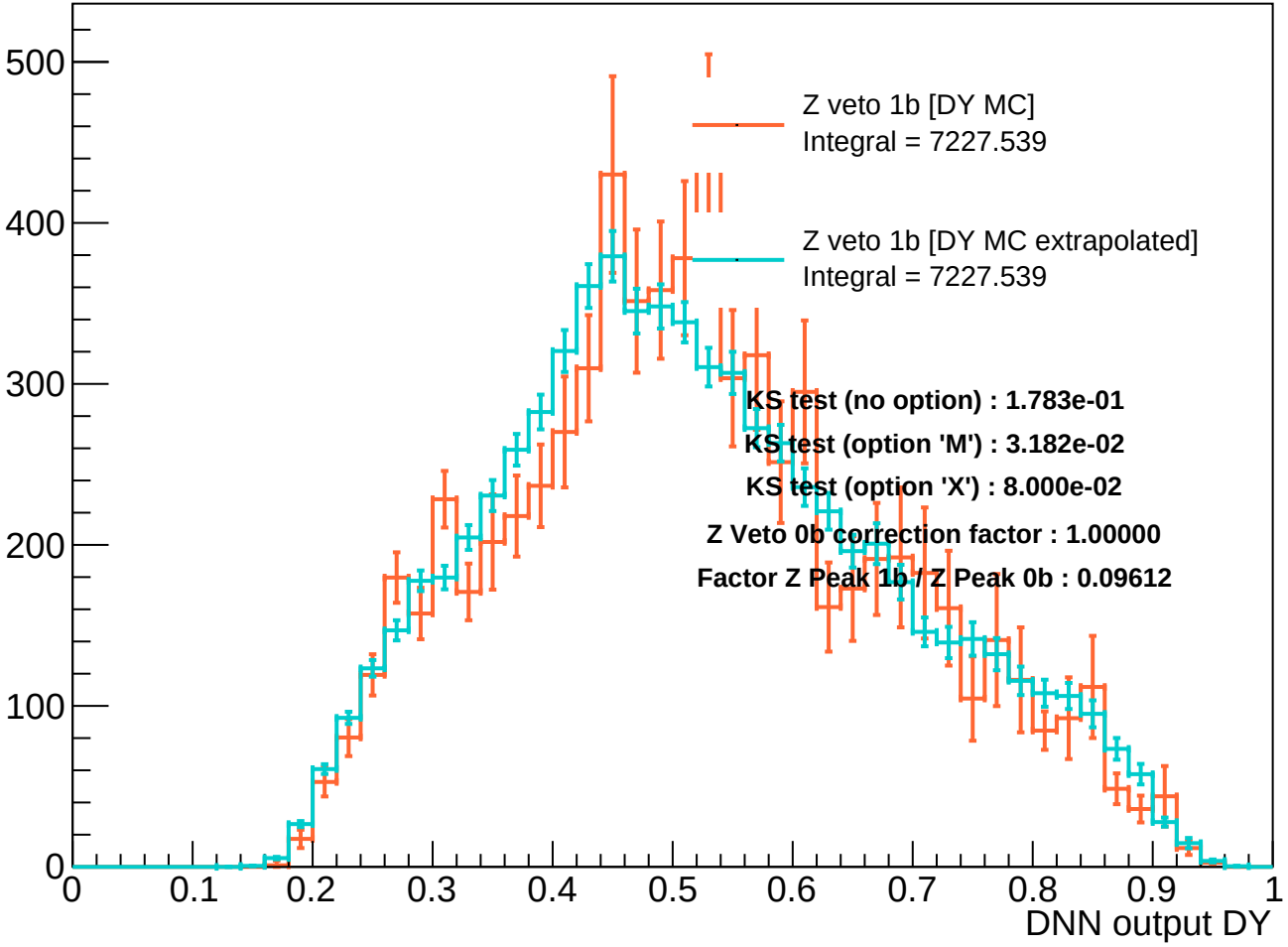
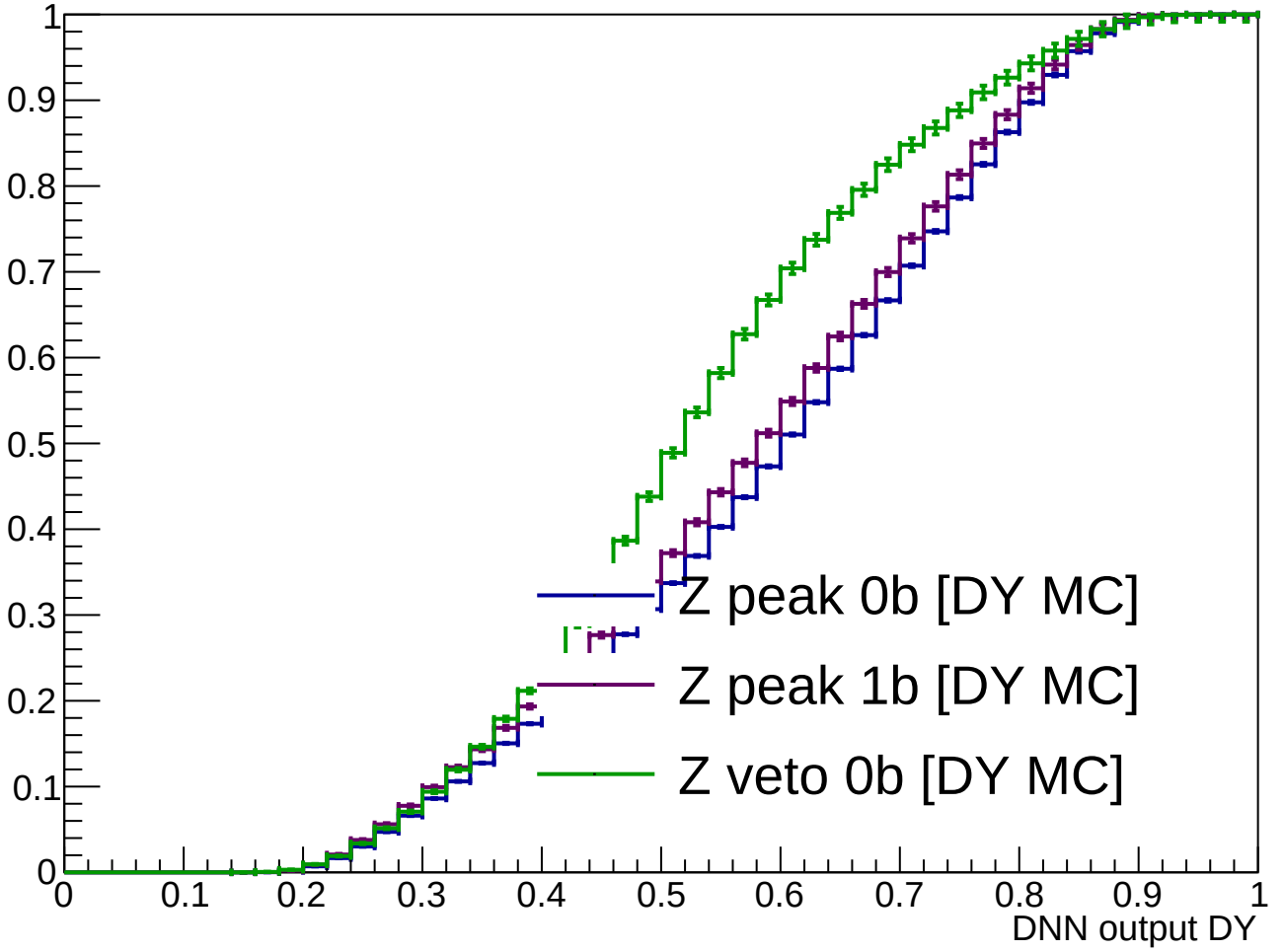
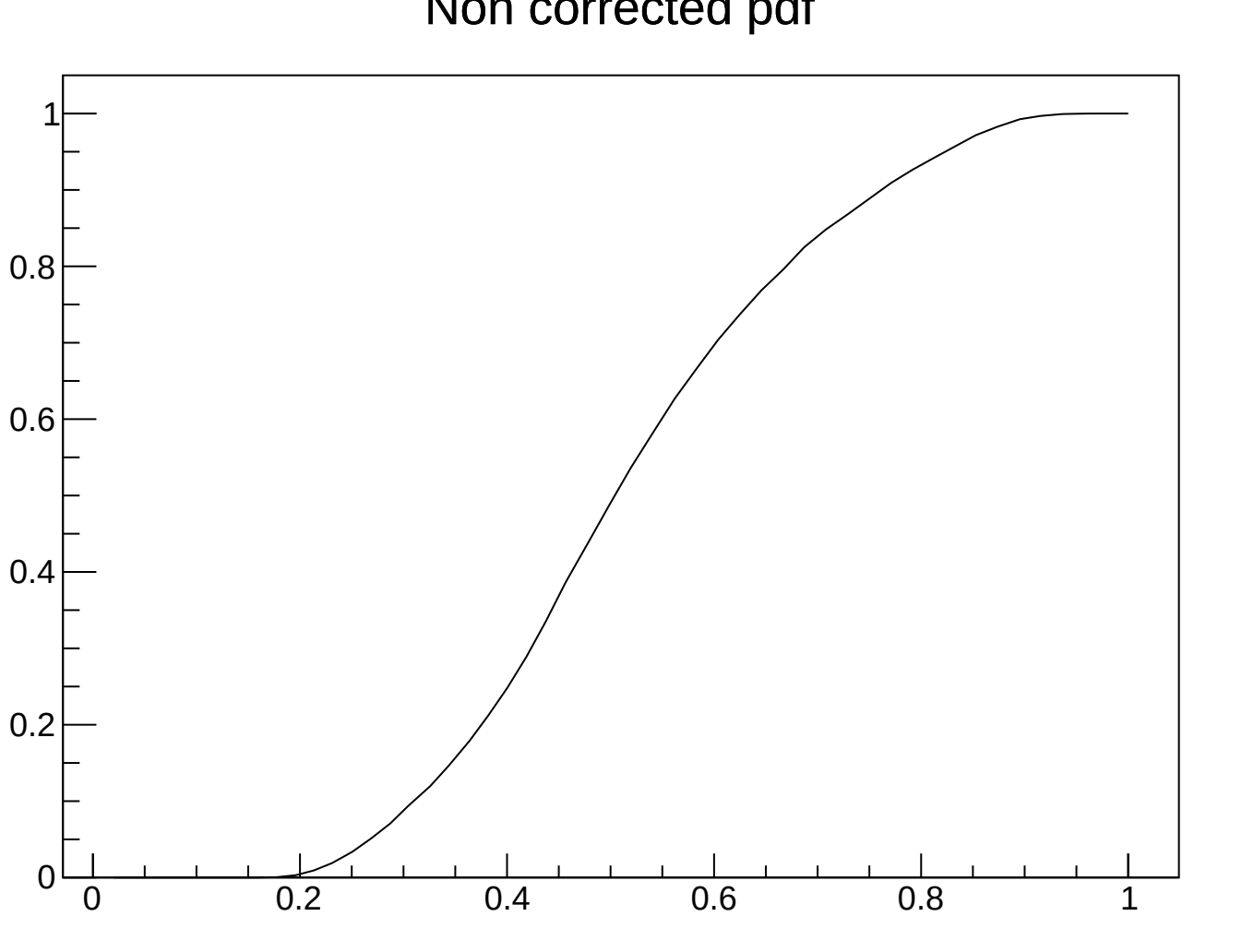

Z peak 0b [DY MC]
Z peak 1b [DY MC]
Z veto 0b [DY MC]
Z veto 1b [DY MC]
Z veto 1b [DY MC extrapolated]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY

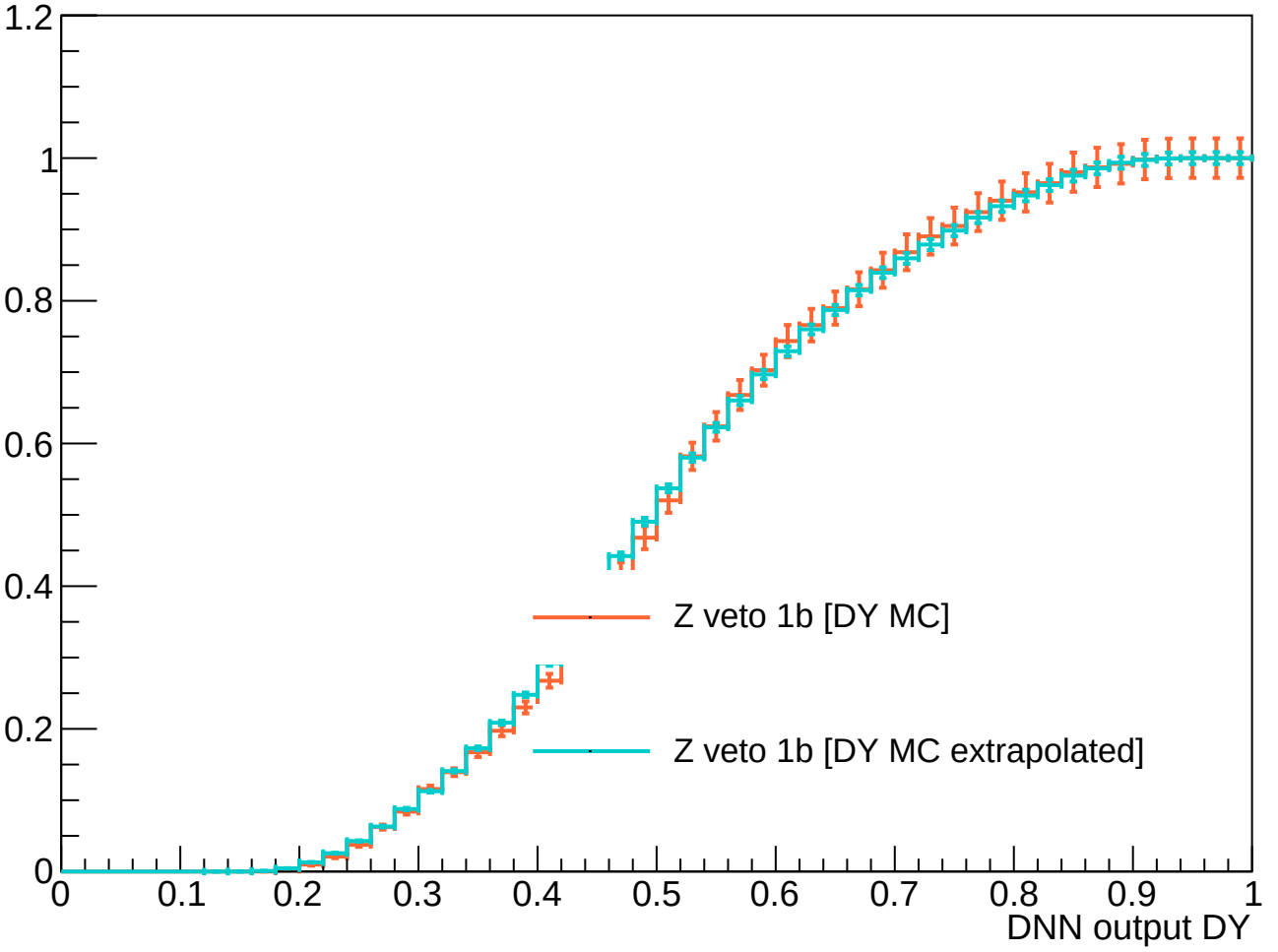

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY
Z peak 0b [DY MC]
Z peak 1b [DY MC]
Z veto 0b [DY MC]
Z veto 1b [DY MC]
Z veto 1b [DY MC extrapolated]

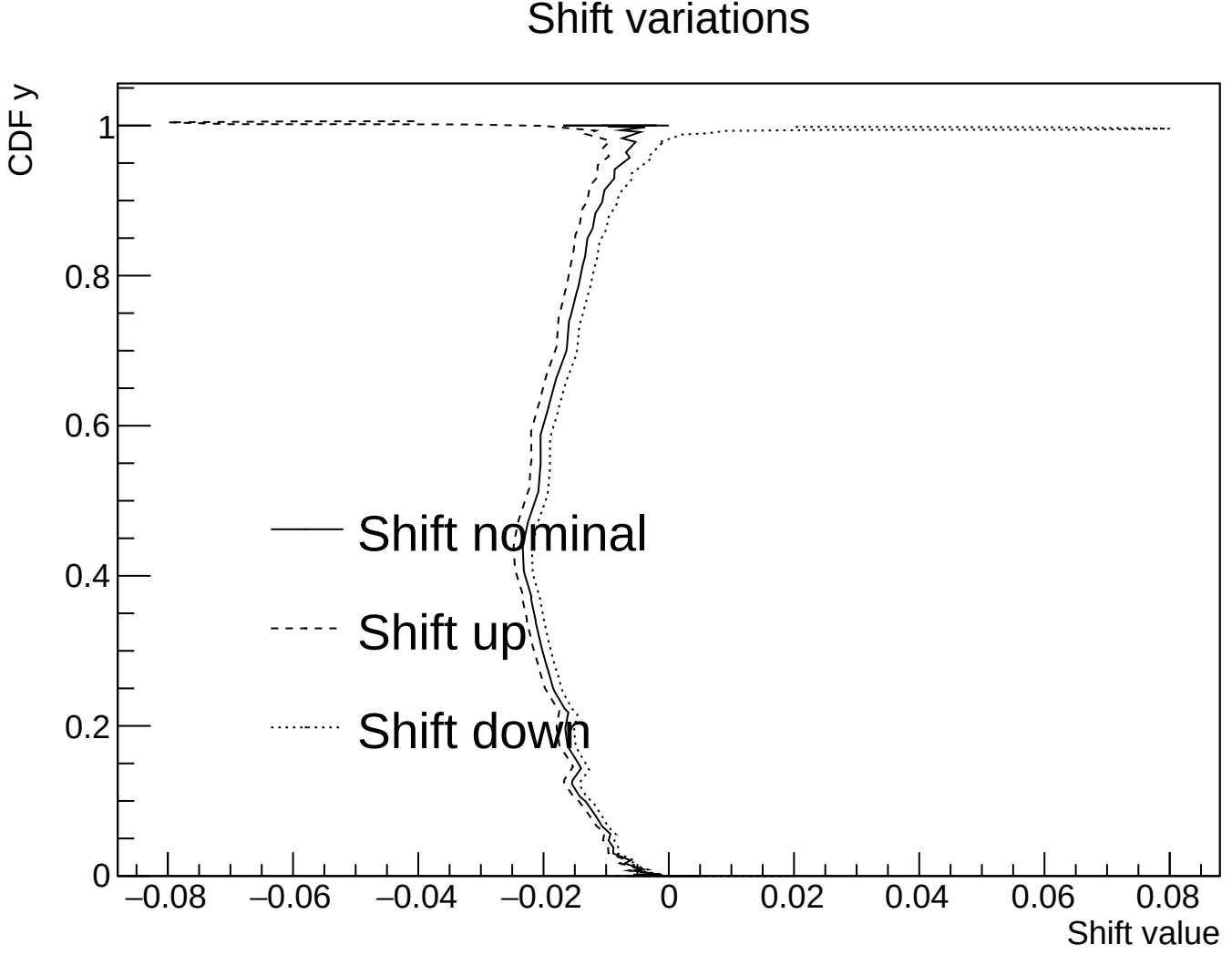

Z peak 0b [DY MC]
Integral = 485683.557
Z peak 1b [DY MC]
Integral = 50813.603
Z veto 0b [DY MC]
Integral = 75191.107
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY

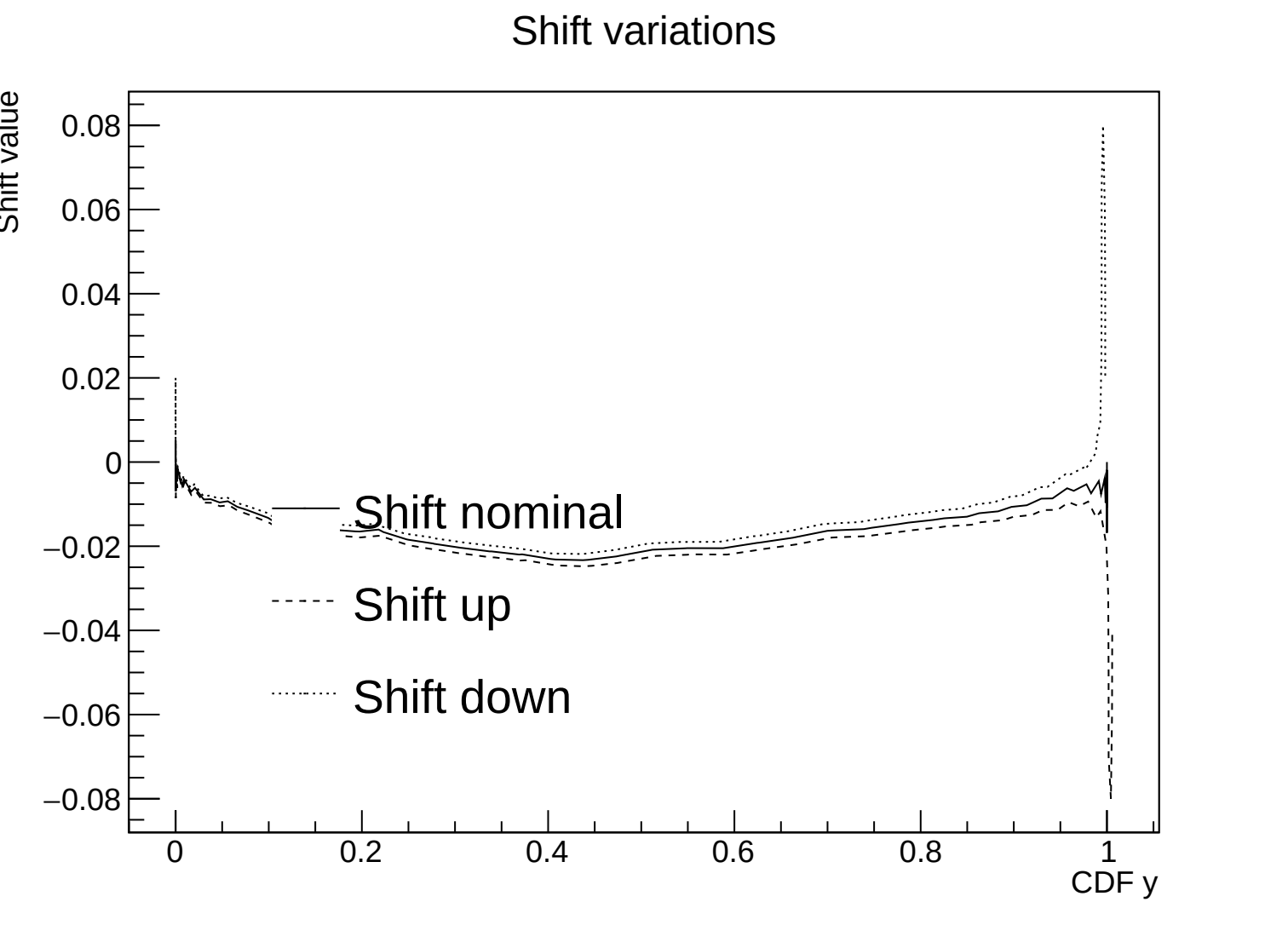

Z veto 1b [DY MC]
Integral = 7227.539
Z veto 1b [DY MC extrapolated]
Integral = 7227.539
KS test (no option) : 1.783e-01
KS test (option 'M') : 3.182e-02
KS test (option 'X') : 8.000e-02
Z Veto 0b correction factor : 1.00000
Factor Z Peak 1b / Z Peak 0b : 0.09612
500
400
300
200
100
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY

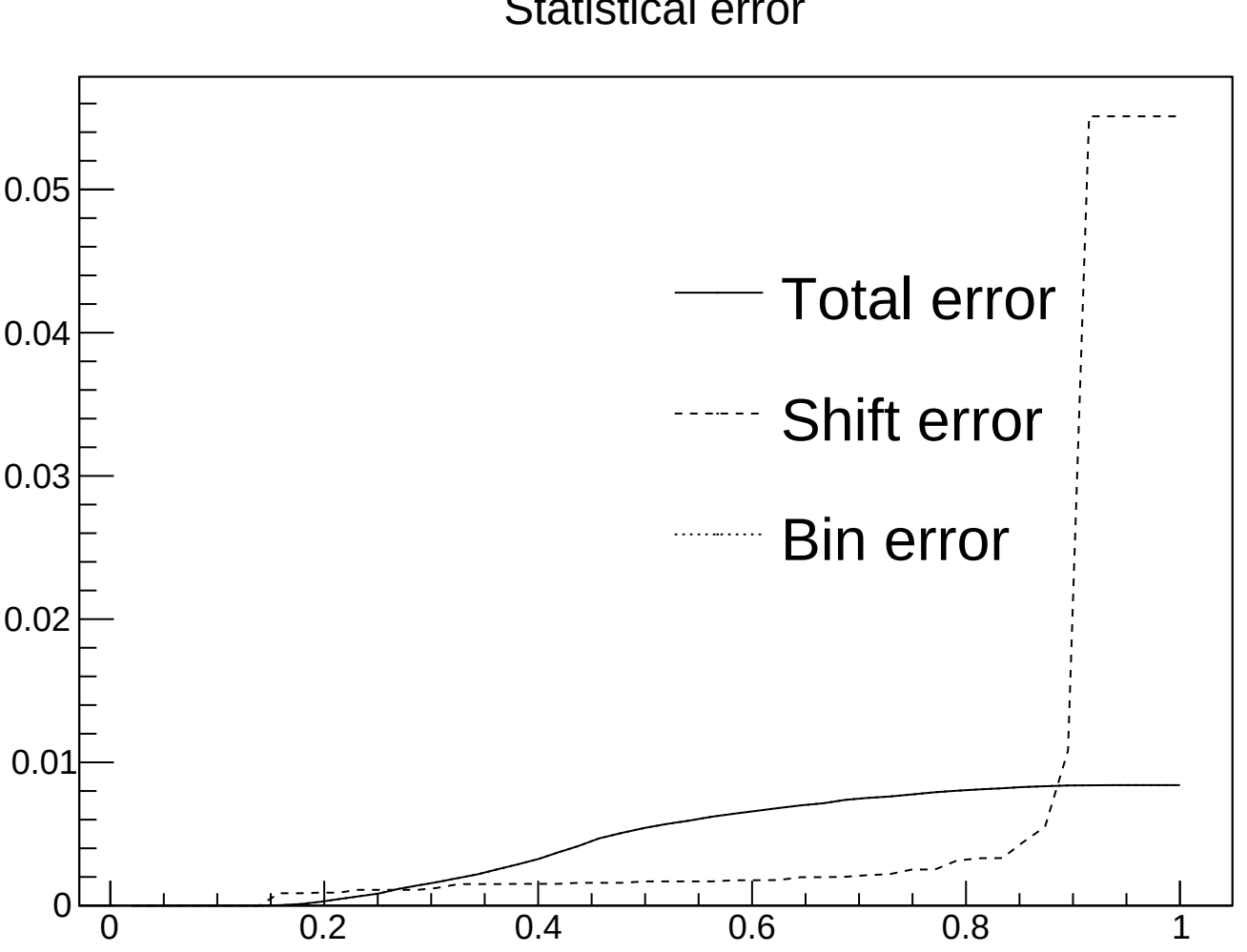

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output DY
Z peak 0b [DY MC]
Z peak 1b [DY MC]
Z veto 0b [DY MC]


Non corrected pdf
1
0.8
0.6
0.4
0.2
0
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 1b [DY MC]
Z veto 1b [DY MC extrapolated]


Shift variations
CDF y
1
0.8
0.6
0.4
0.2
0
Shift nominal
Shift up
Shift down
–0.08
–0.06
–0.04
–0.02
0
0.02
0.04
0.06
0.08
Shift value


Shift variations
Shift value
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
0
0.2
0.4
0.6
0.8
1
CDF y
Shift nominal
Shift up
Shift down


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