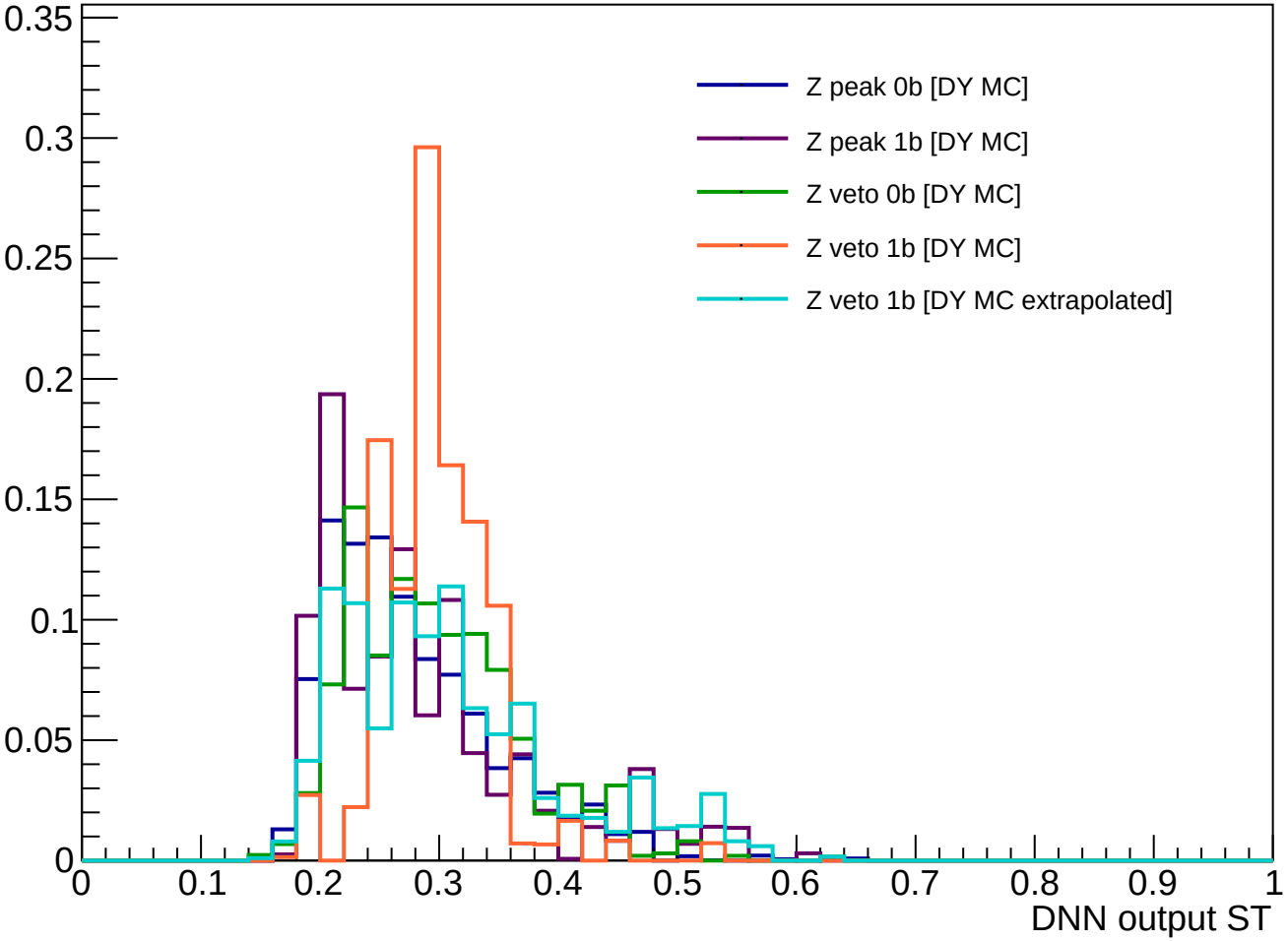
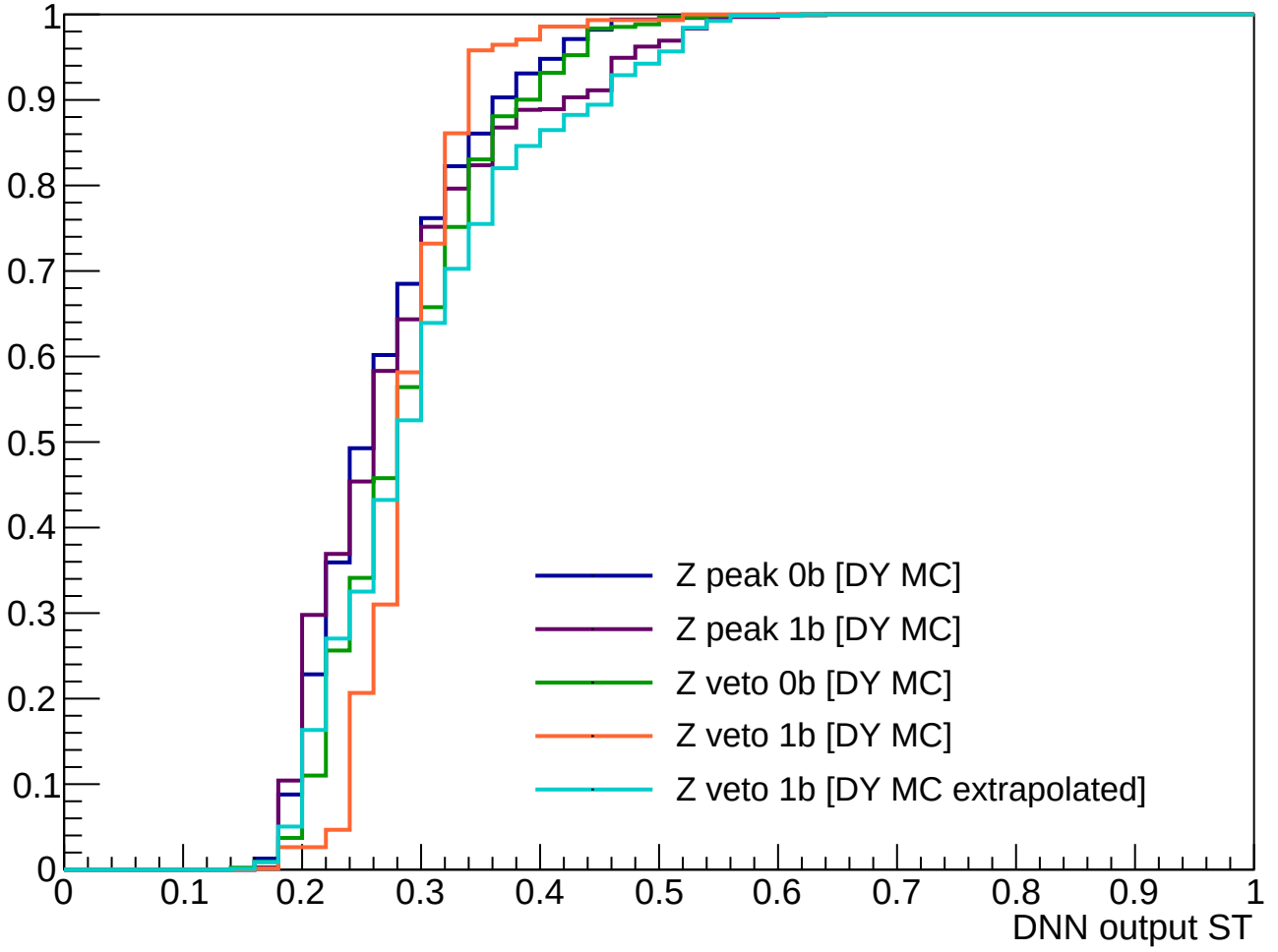
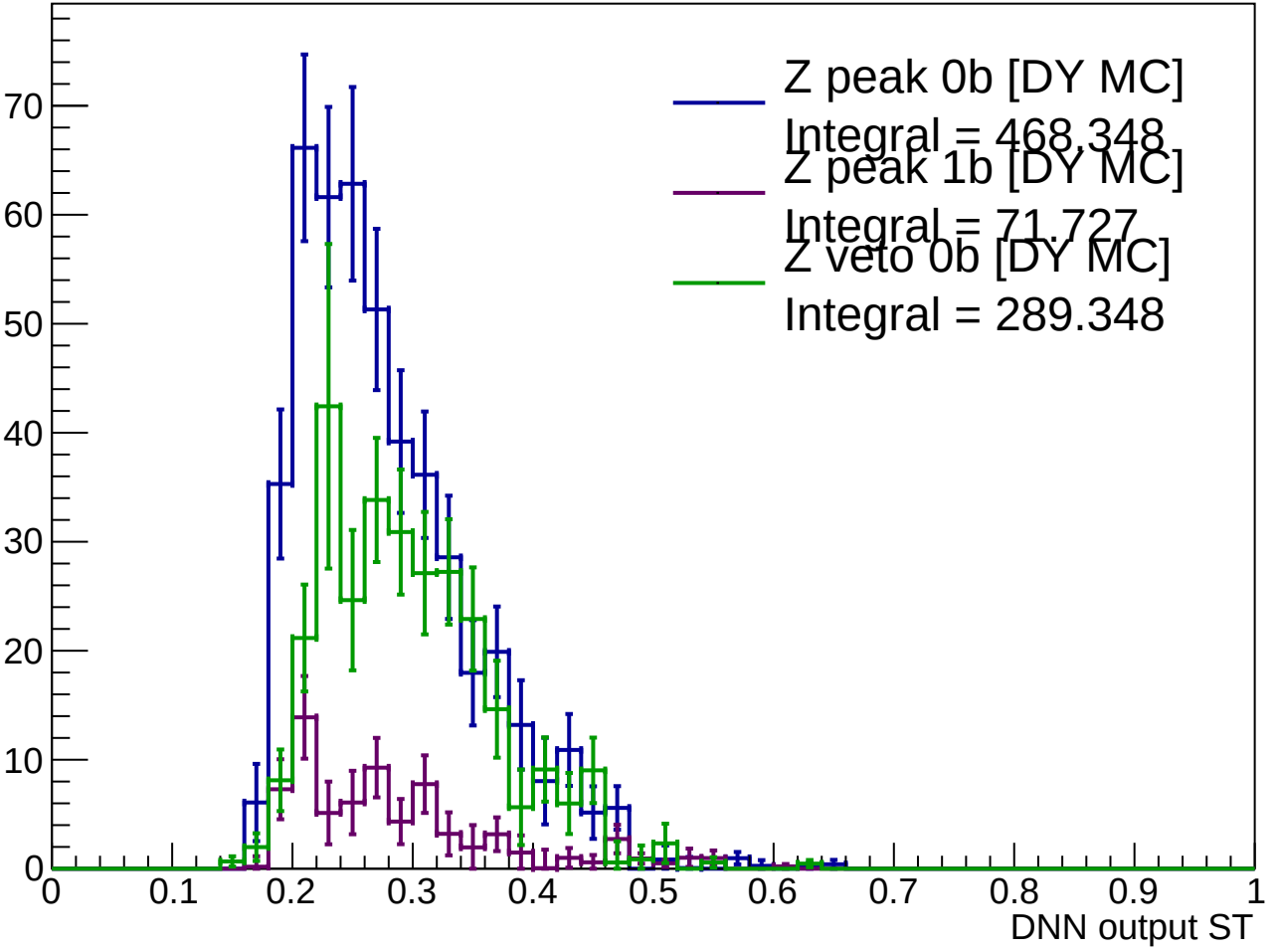
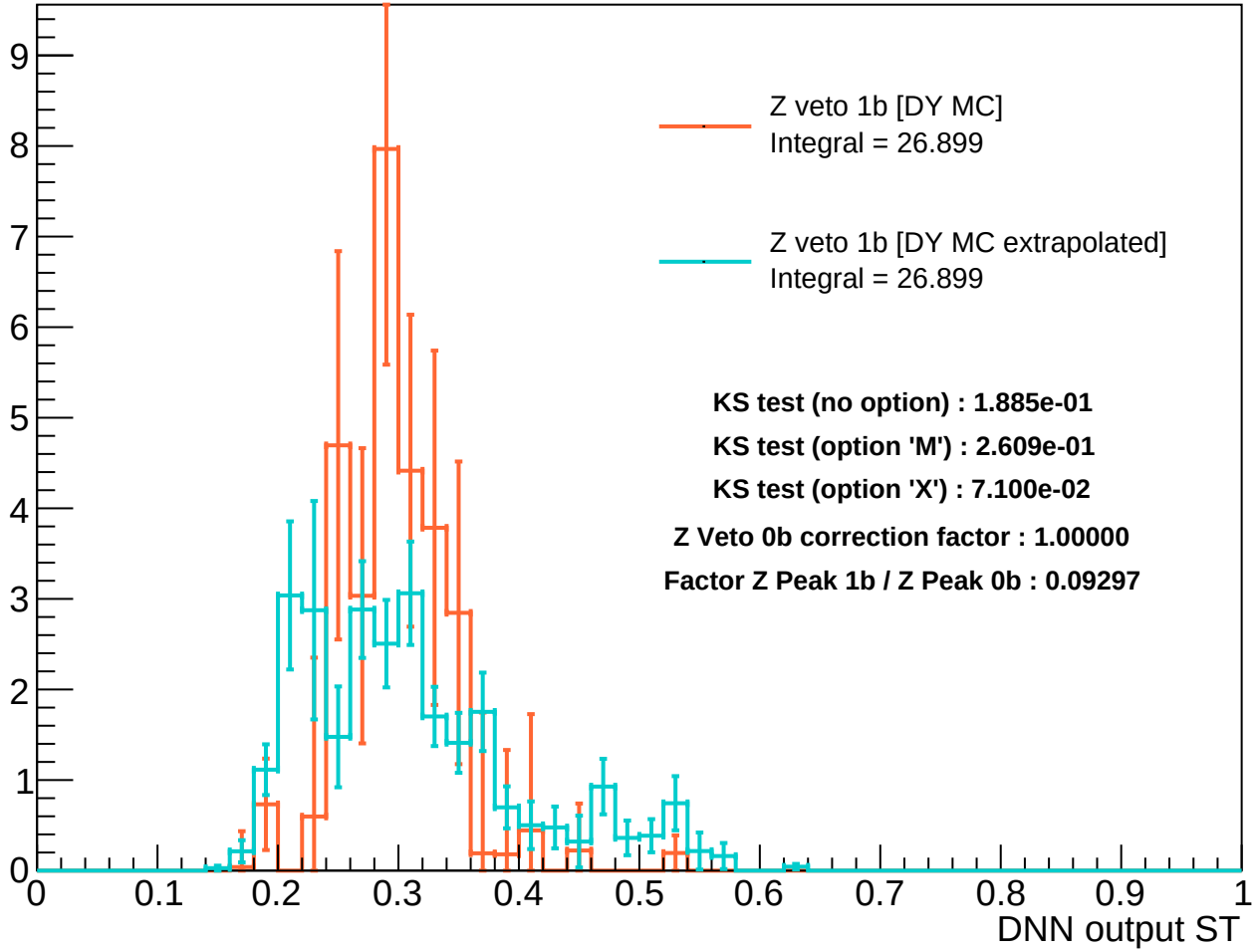
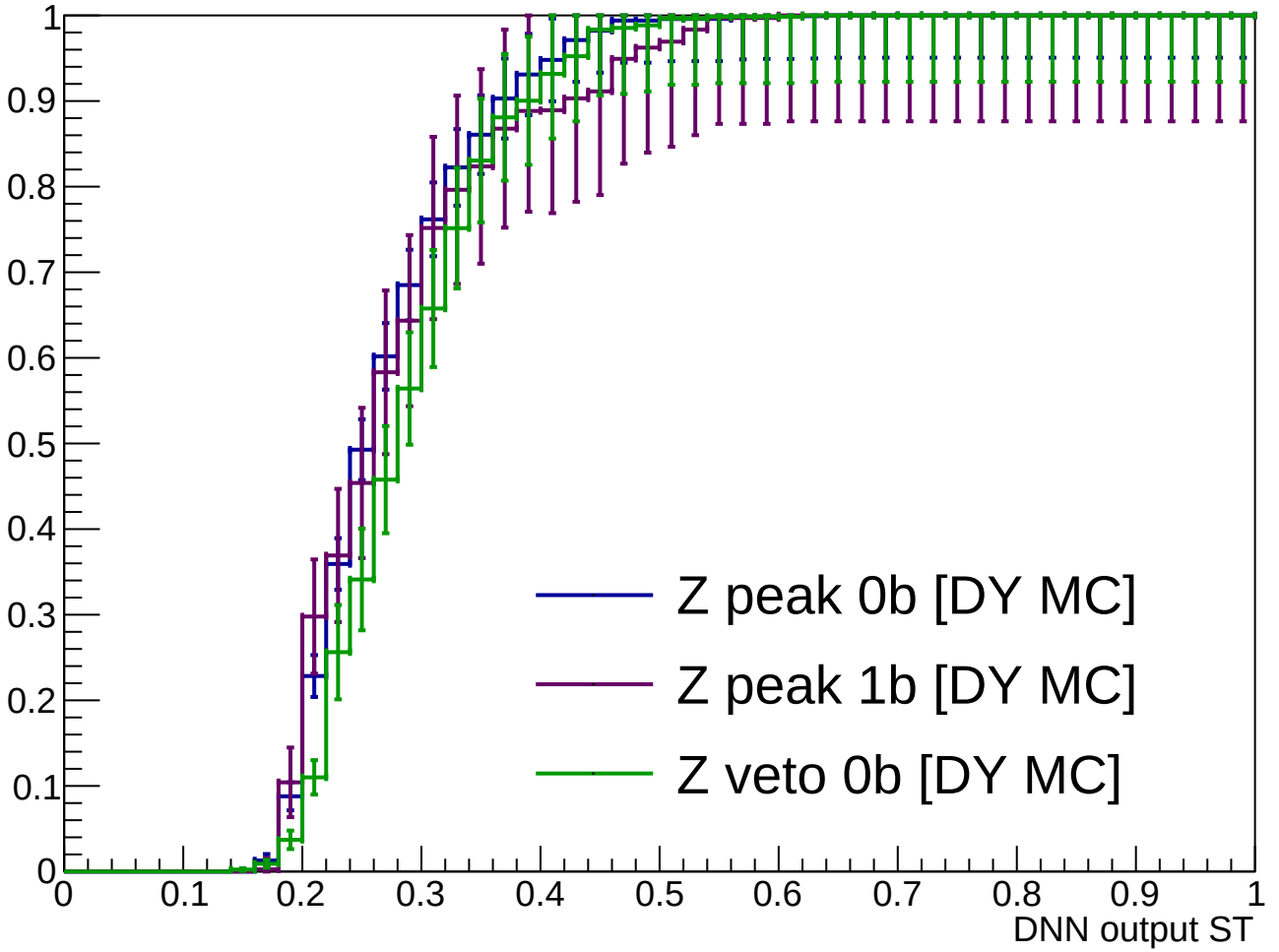
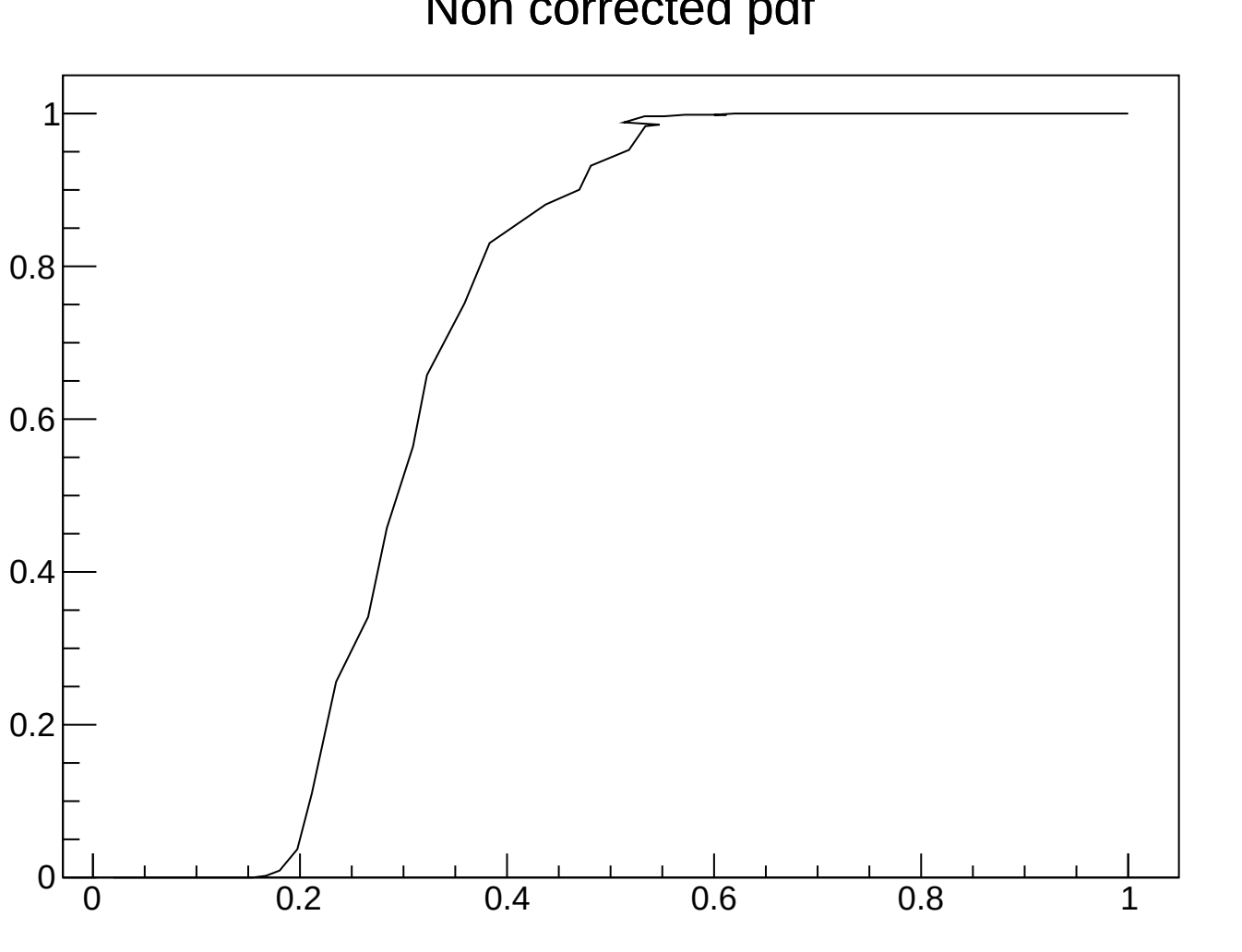

0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output ST
Z peak 0b [DY MC]
Z peak 1b [DY MC]
Z veto 0b [DY MC]
Z veto 1b [DY MC]
Z veto 1b [DY MC extrapolated]

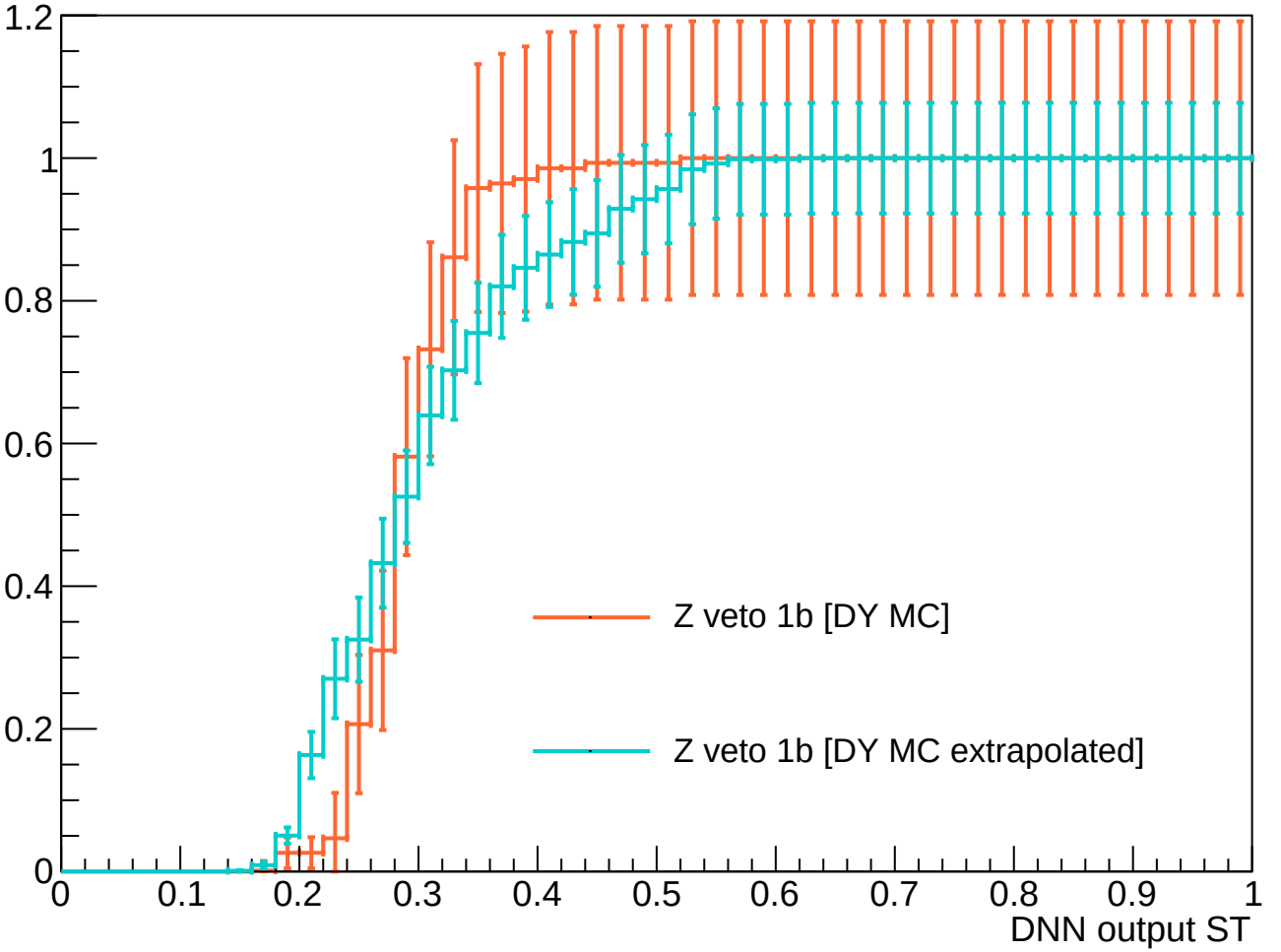

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output ST
Z peak 0b [DY MC]
Z peak 1b [DY MC]
Z veto 0b [DY MC]
Z veto 1b [DY MC]
Z veto 1b [DY MC extrapolated]

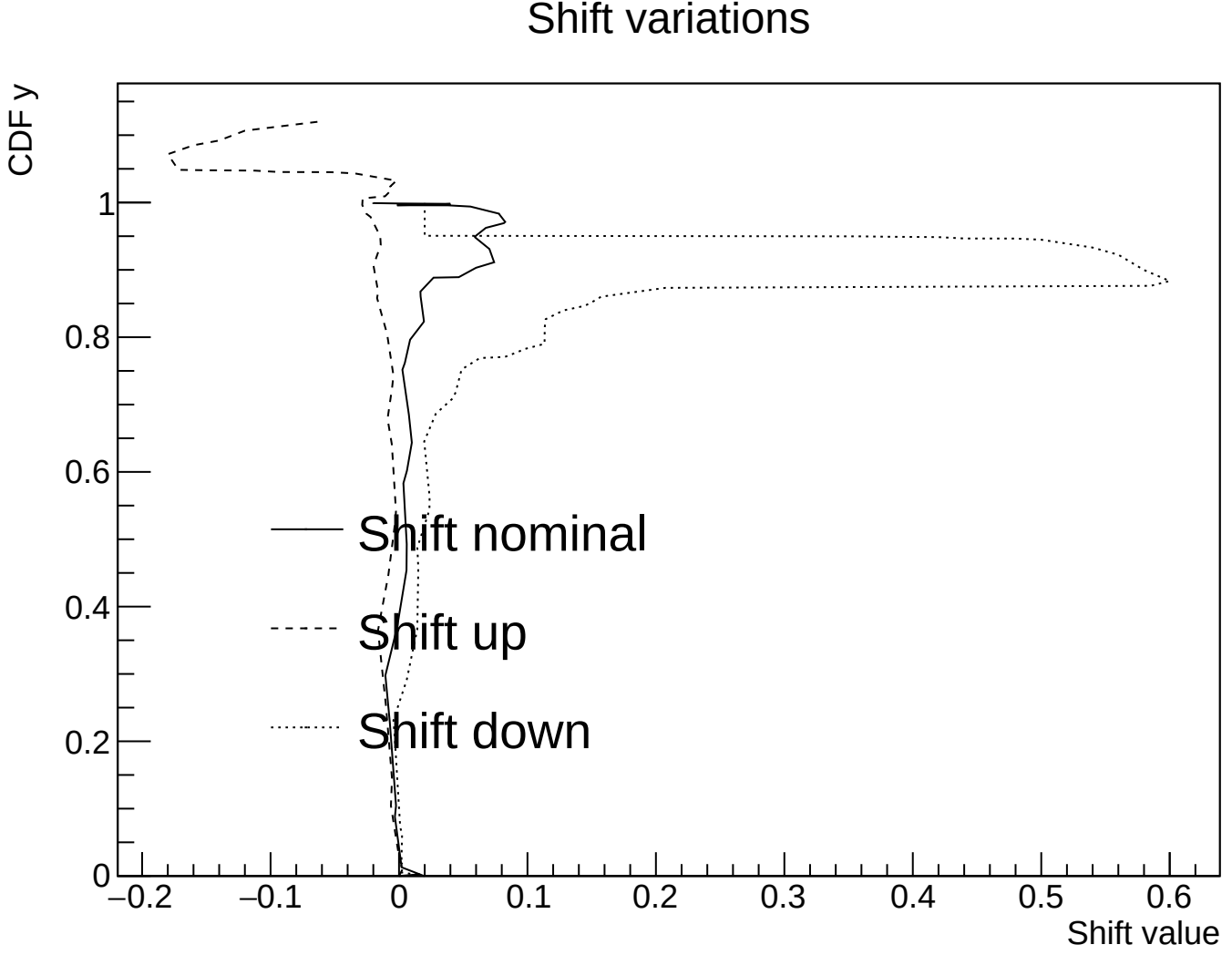

Z peak 0b [DY MC]
Integral = 468.348
Z peak 1b [DY MC]
Integral = 71.727
Z veto 0b [DY MC]
Integral = 289.348
0
10
20
30
40
50
60
70
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output ST

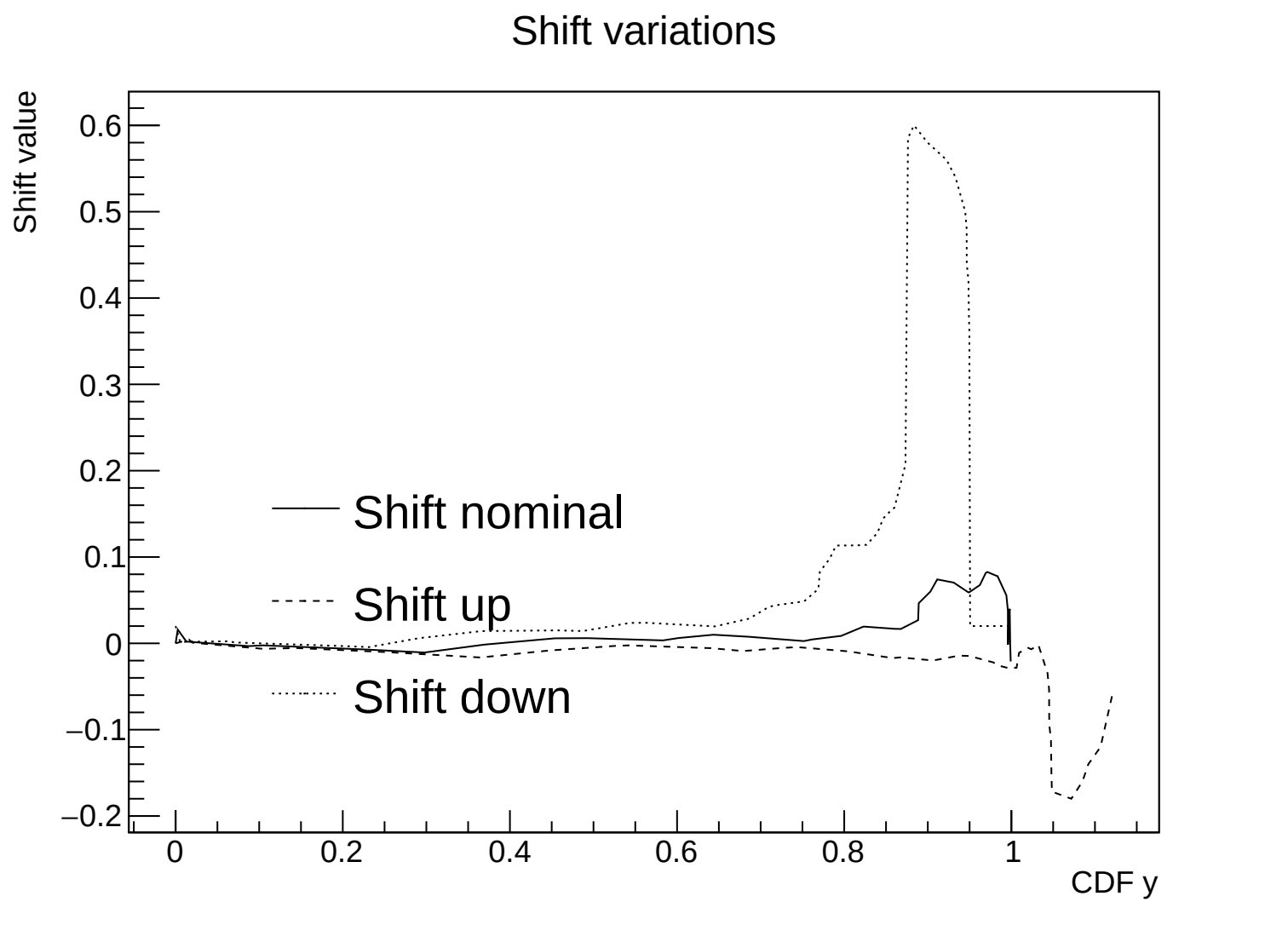

Z veto 1b [DY MC]
Integral = 26.899
Z veto 1b [DY MC extrapolated]
Integral = 26.899
KS test (no option) : 1.885e-01
KS test (option 'M') : 2.609e-01
KS test (option 'X') : 7.100e-02
Z Veto 0b correction factor : 1.00000
Factor Z Peak 1b / Z Peak 0b : 0.09297
0
1
2
3
4
5
6
7
8
9
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output ST

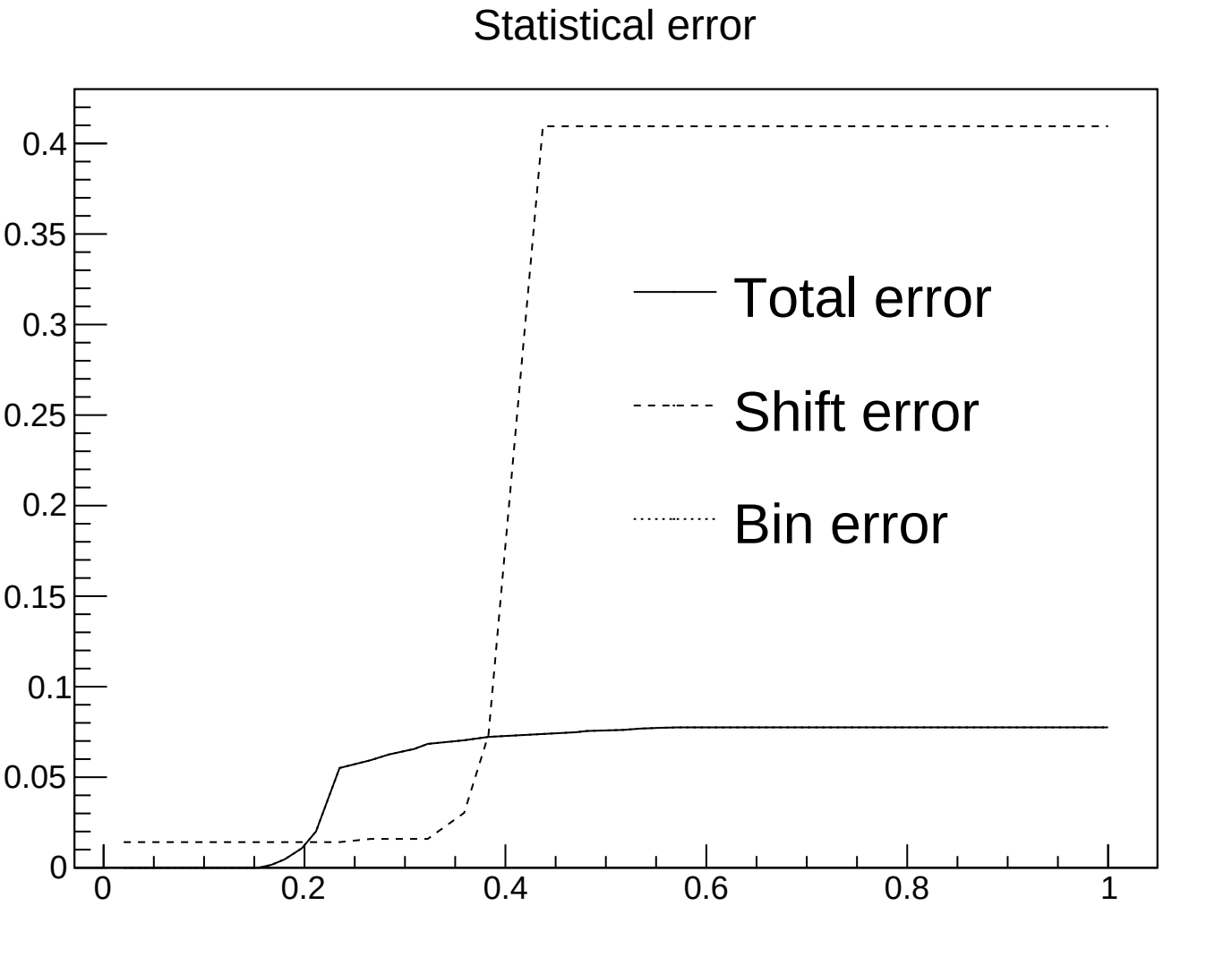

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
DNN output ST
Z peak 0b [DY MC]
Z peak 1b [DY MC]
Z veto 0b [DY MC]


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 ST
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
–0.2
–0.1
0
0.1
0.2
0.3
0.4
0.5
0.6
Shift value
Shift nominal
Shift up
Shift down


Shift variations
Shift value
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
0
0.2
0.4
0.6
0.8
1
CDF y
Shift nominal
Shift up
Shift down


Statistical error
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0
0.2
0.4
0.6
0.8
1
Total error
Shift error
Bin error