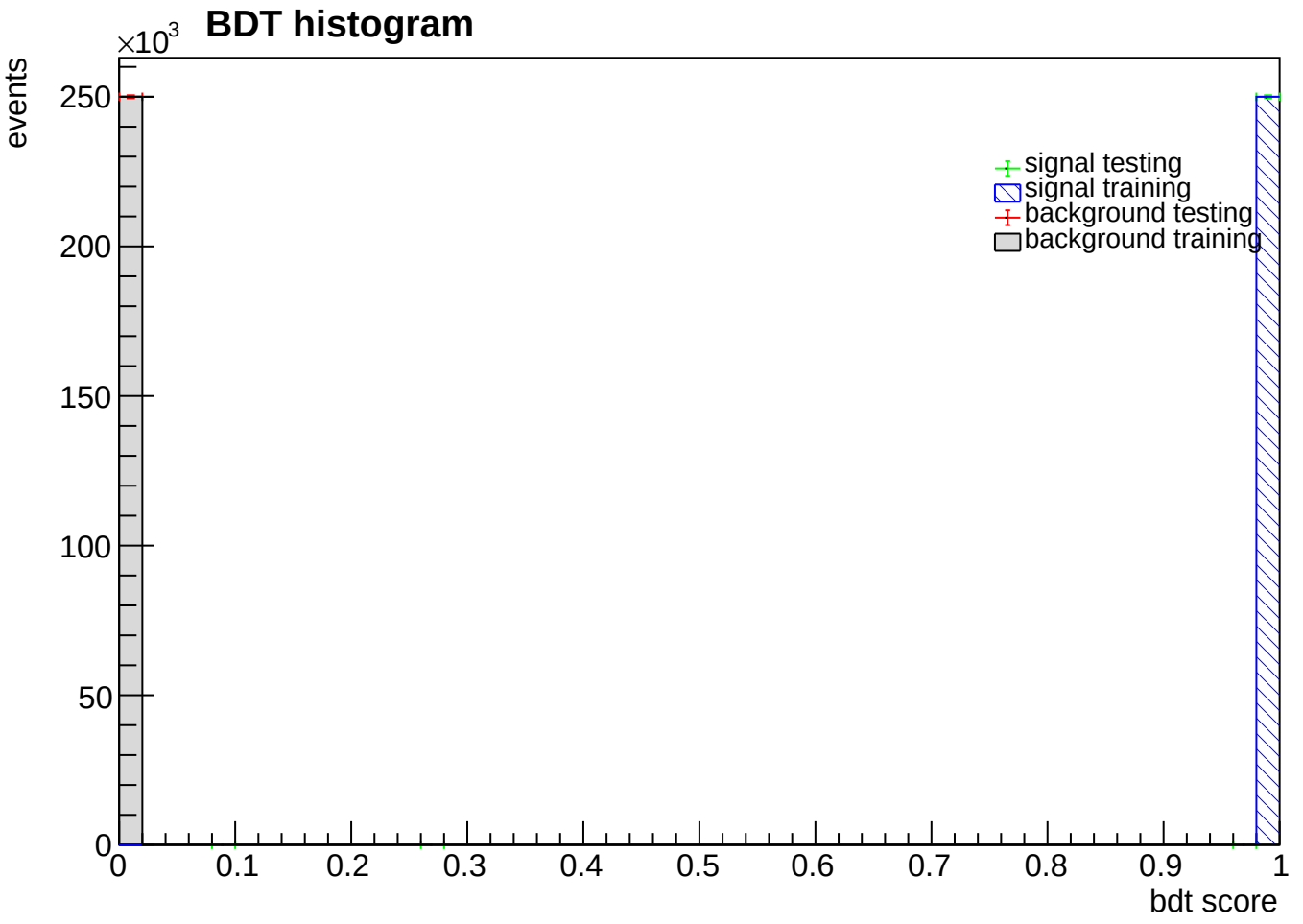
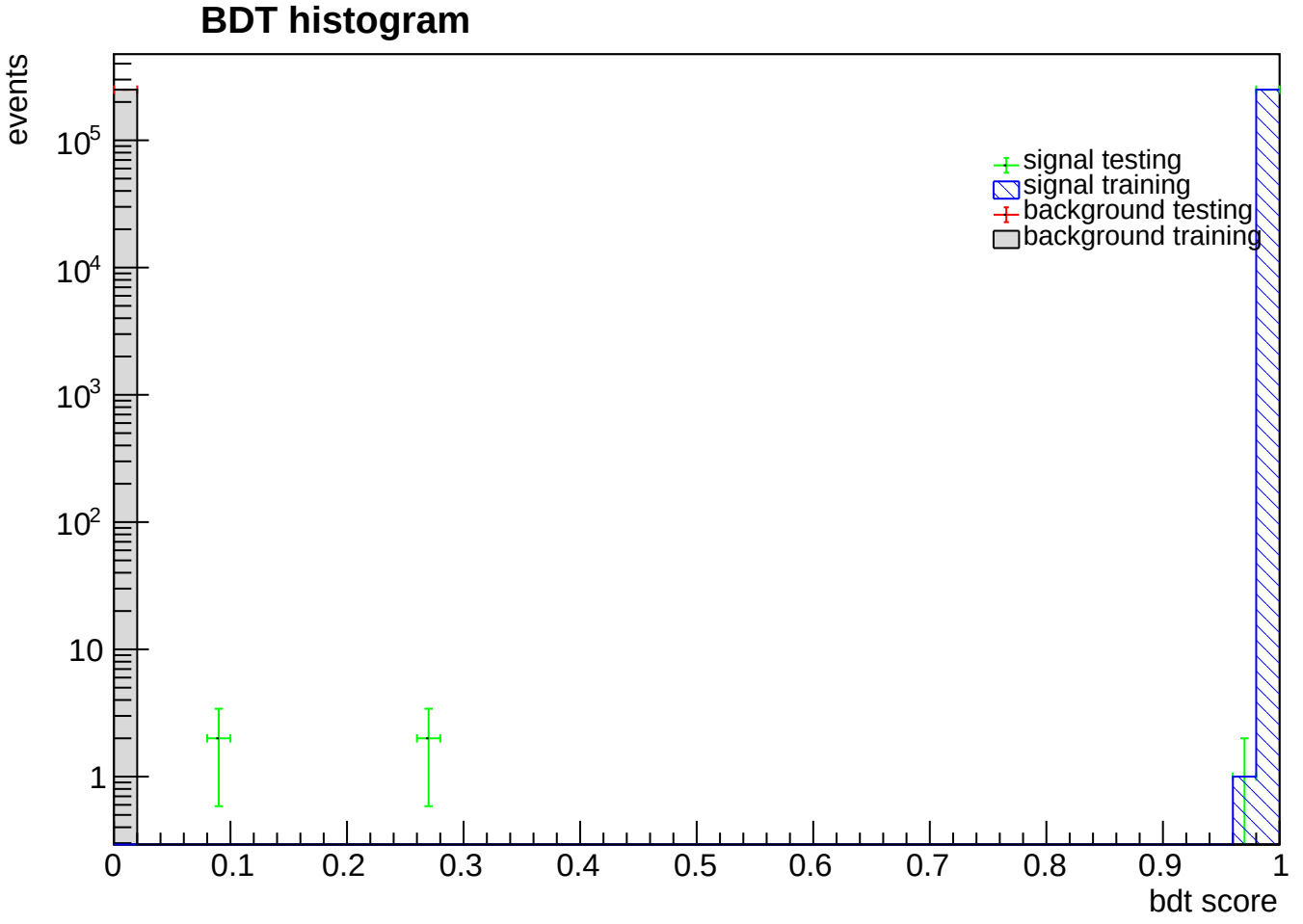
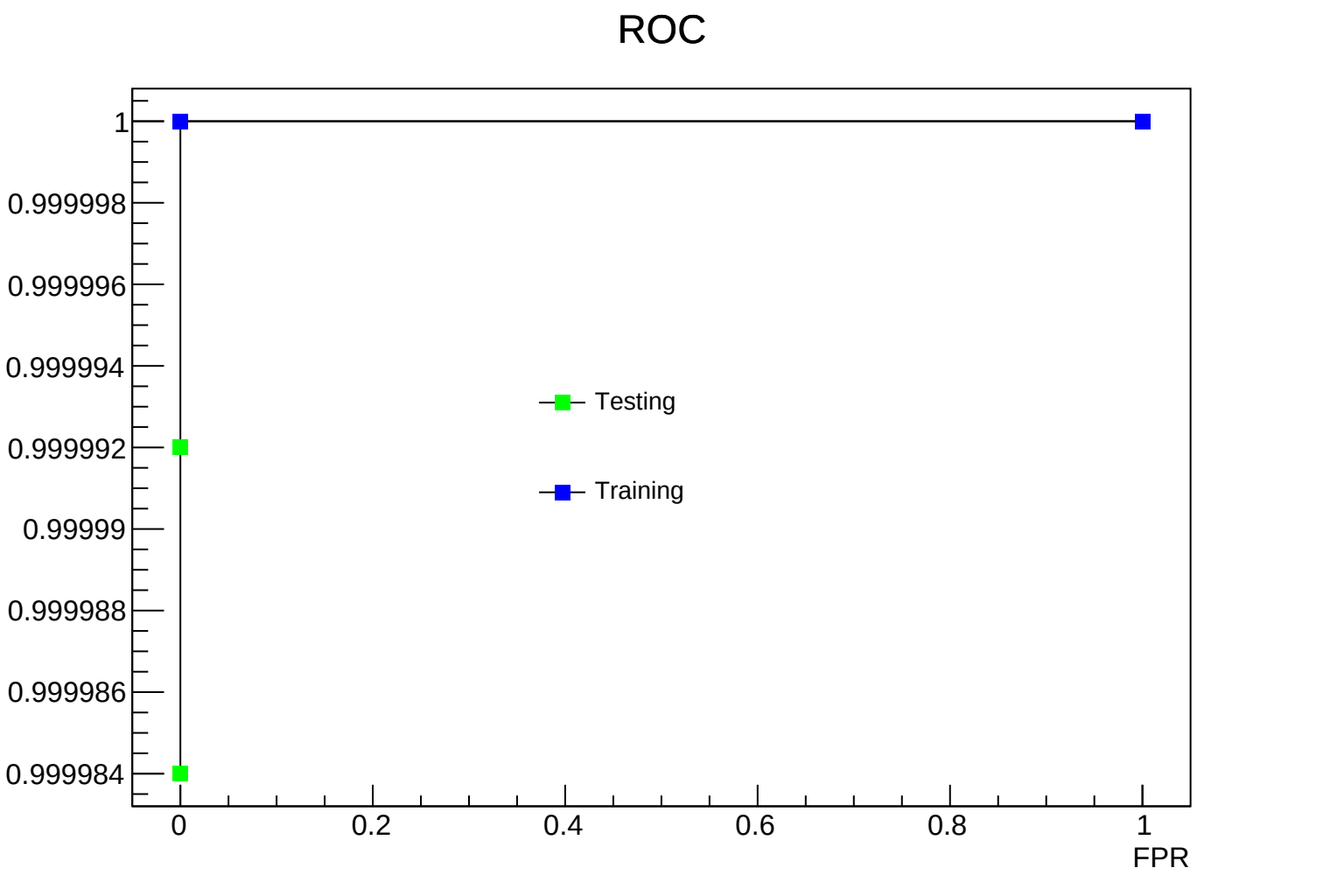
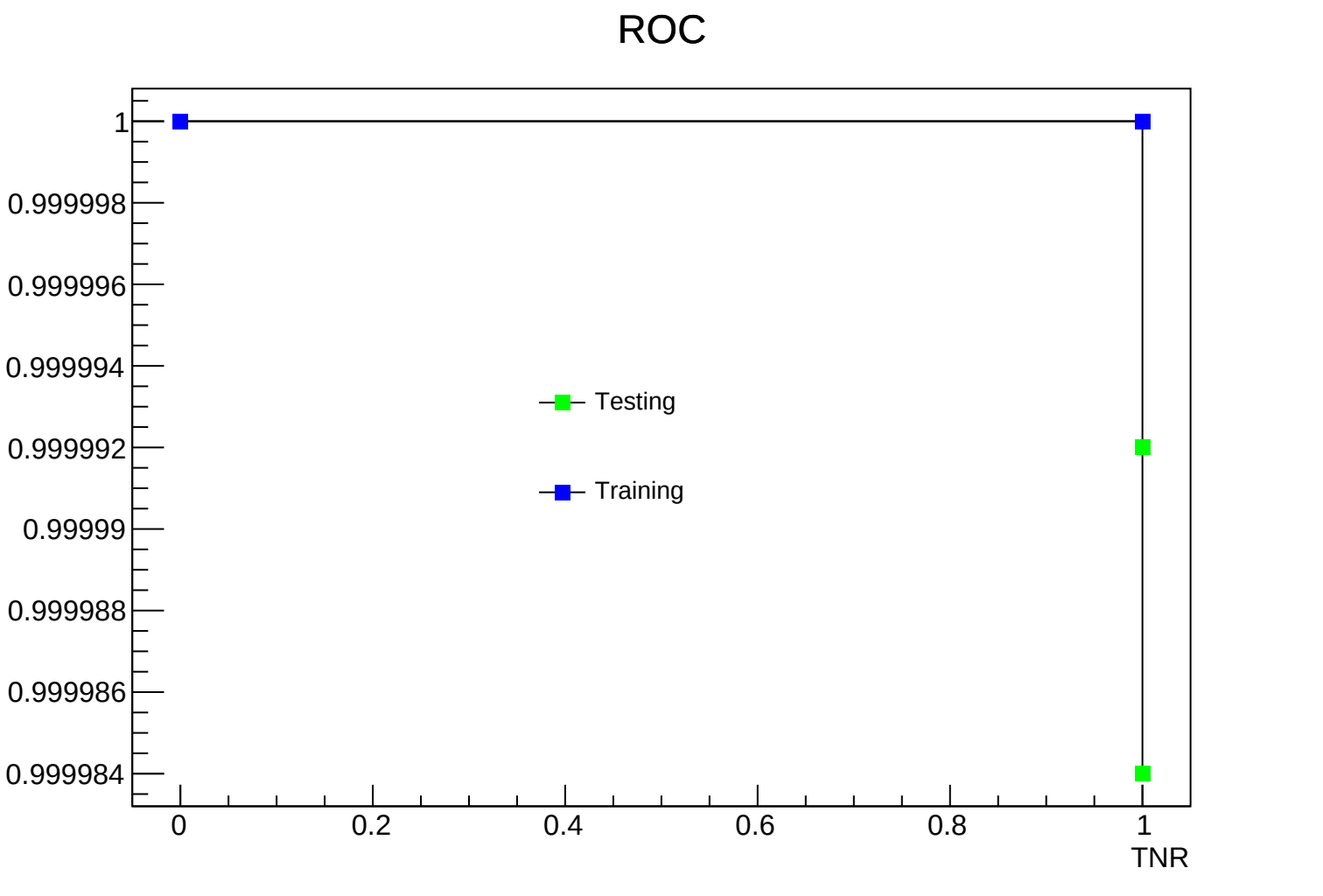
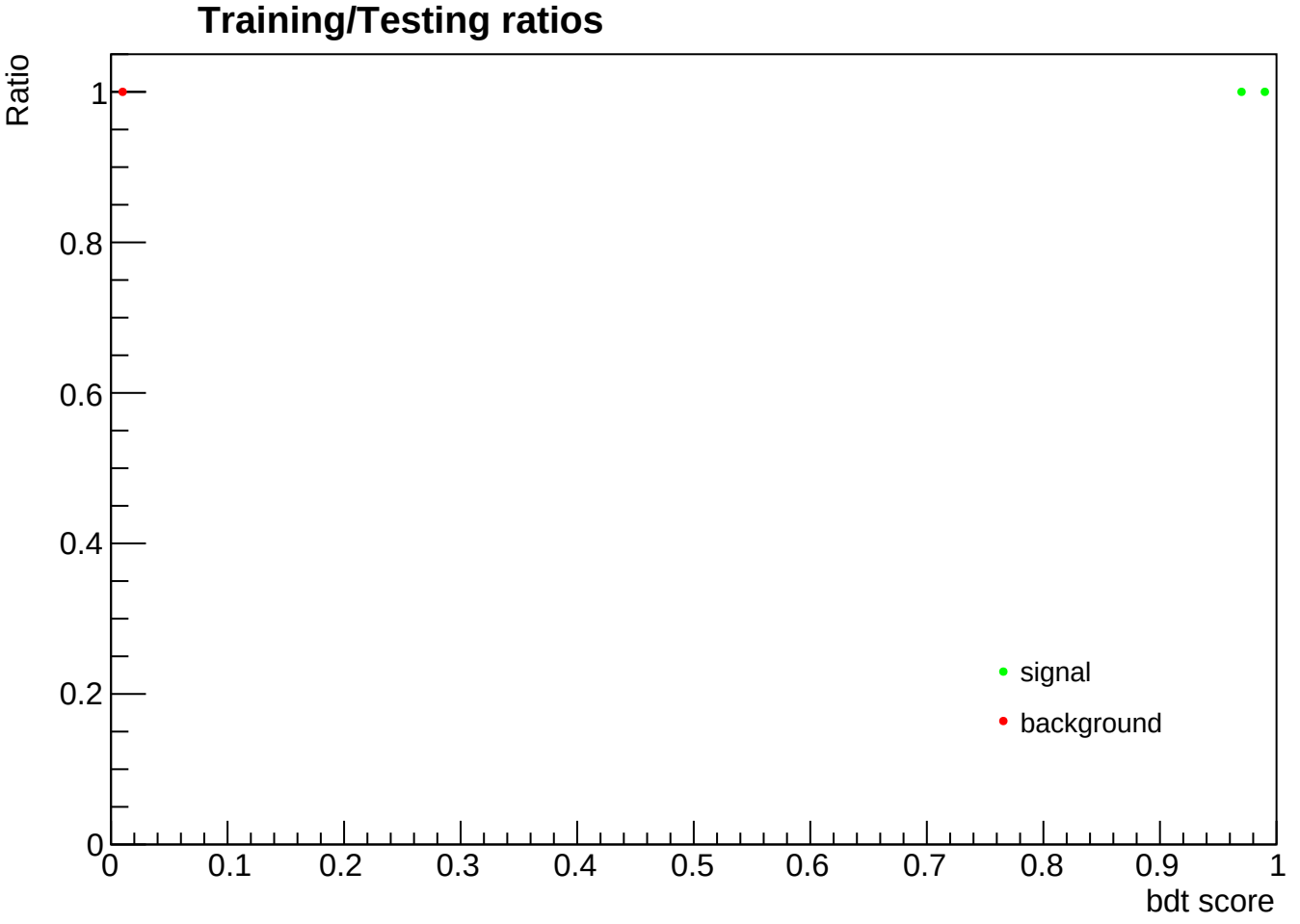
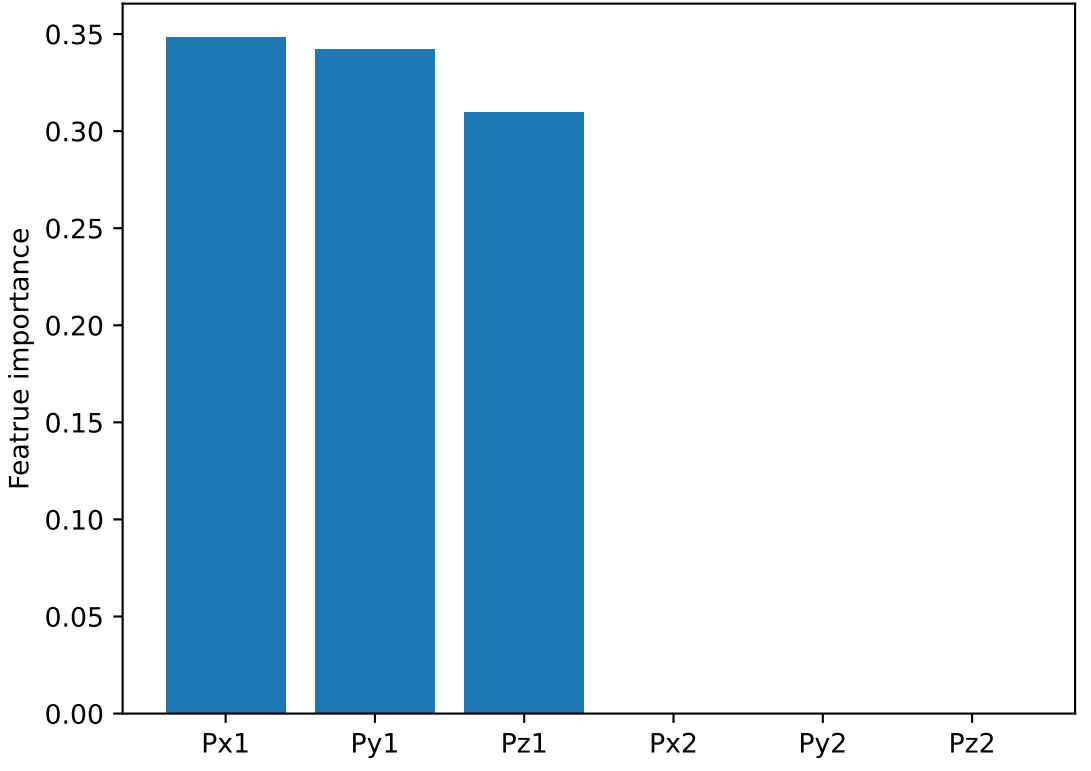

BDT histogram
×10^3
events
250
200
150
100
50
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal testing
signal training
background testing
background training


BDT histogram
events
10^5
10^4
10^3
10^2
10
1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal testing
signal training
background testing
background training


ROC
1
0.999998
0.999996
0.999994
0.999992
0.99999
0.999988
0.999986
0.999984
0
0.2
0.4
0.6
0.8
1
FPR
Testing
Training


ROC
1
0.999998
0.999996
0.999994
0.999992
0.99999
0.999988
0.999986
0.999984
0
0.2
0.4
0.6
0.8
1
TNR
Testing
Training


Training/Testing ratios
Ratio
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
bdt score
signal
background


Featrue importance
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Px1
Py1
Pz1
Px2
Py2
Pz2