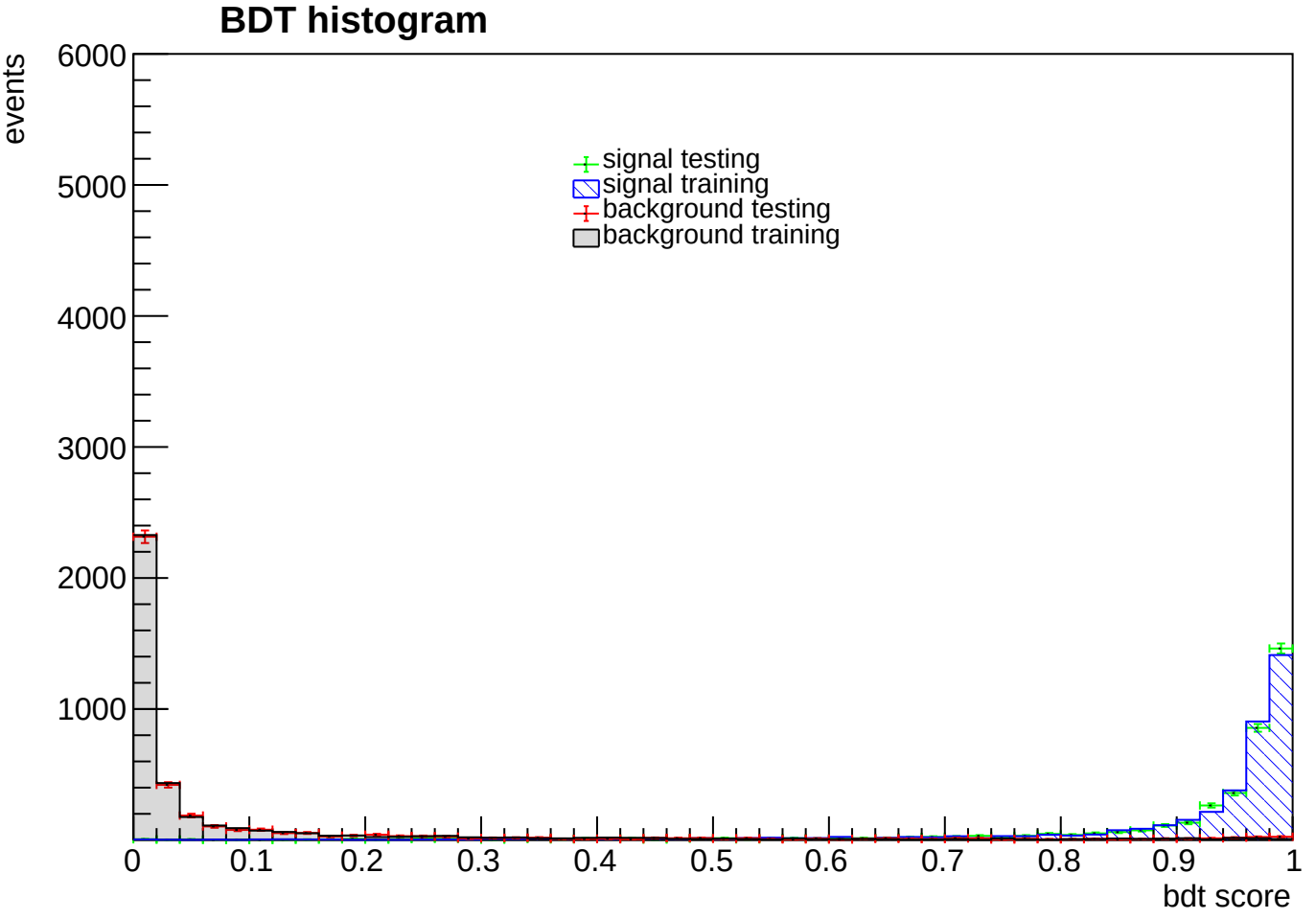
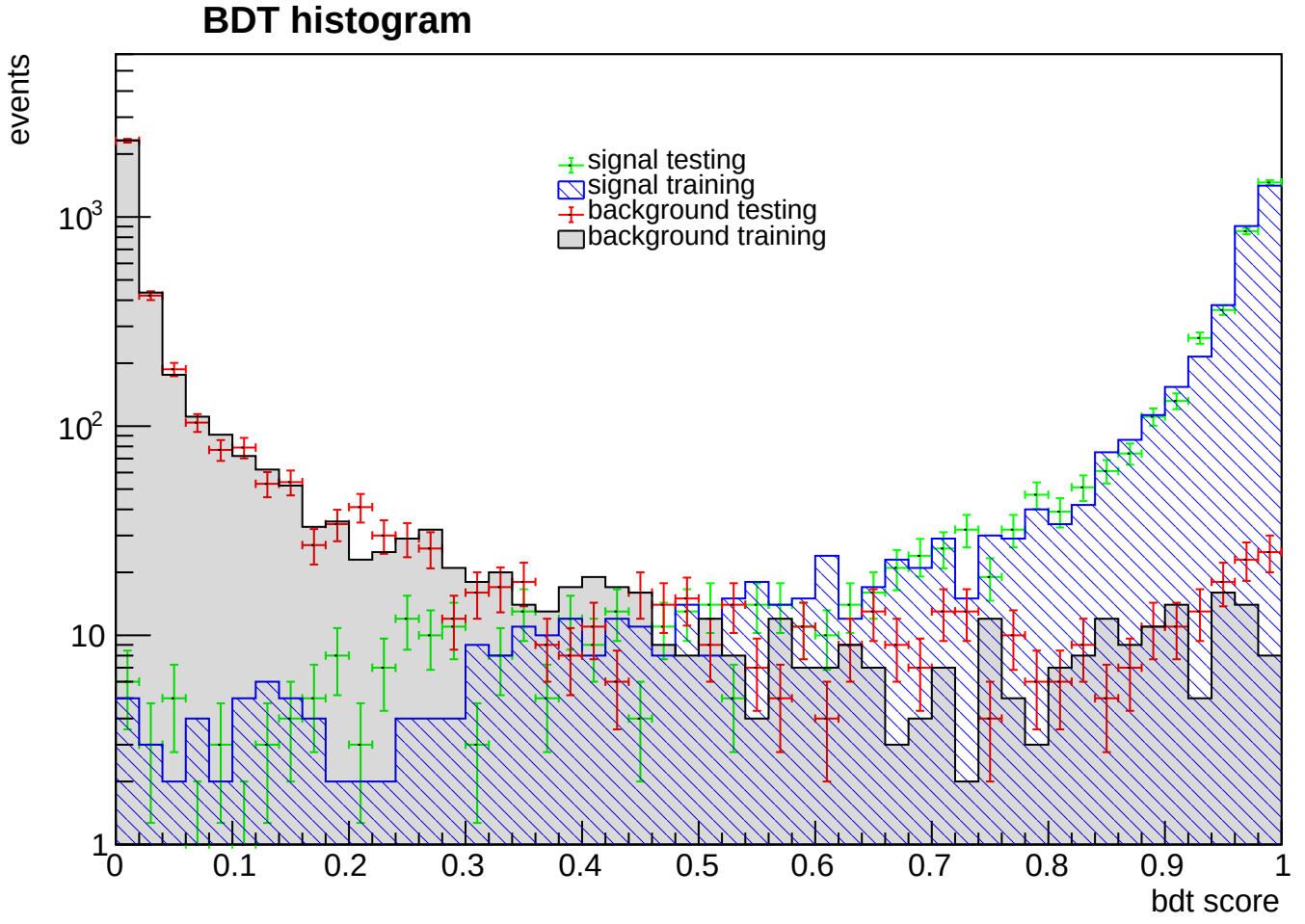
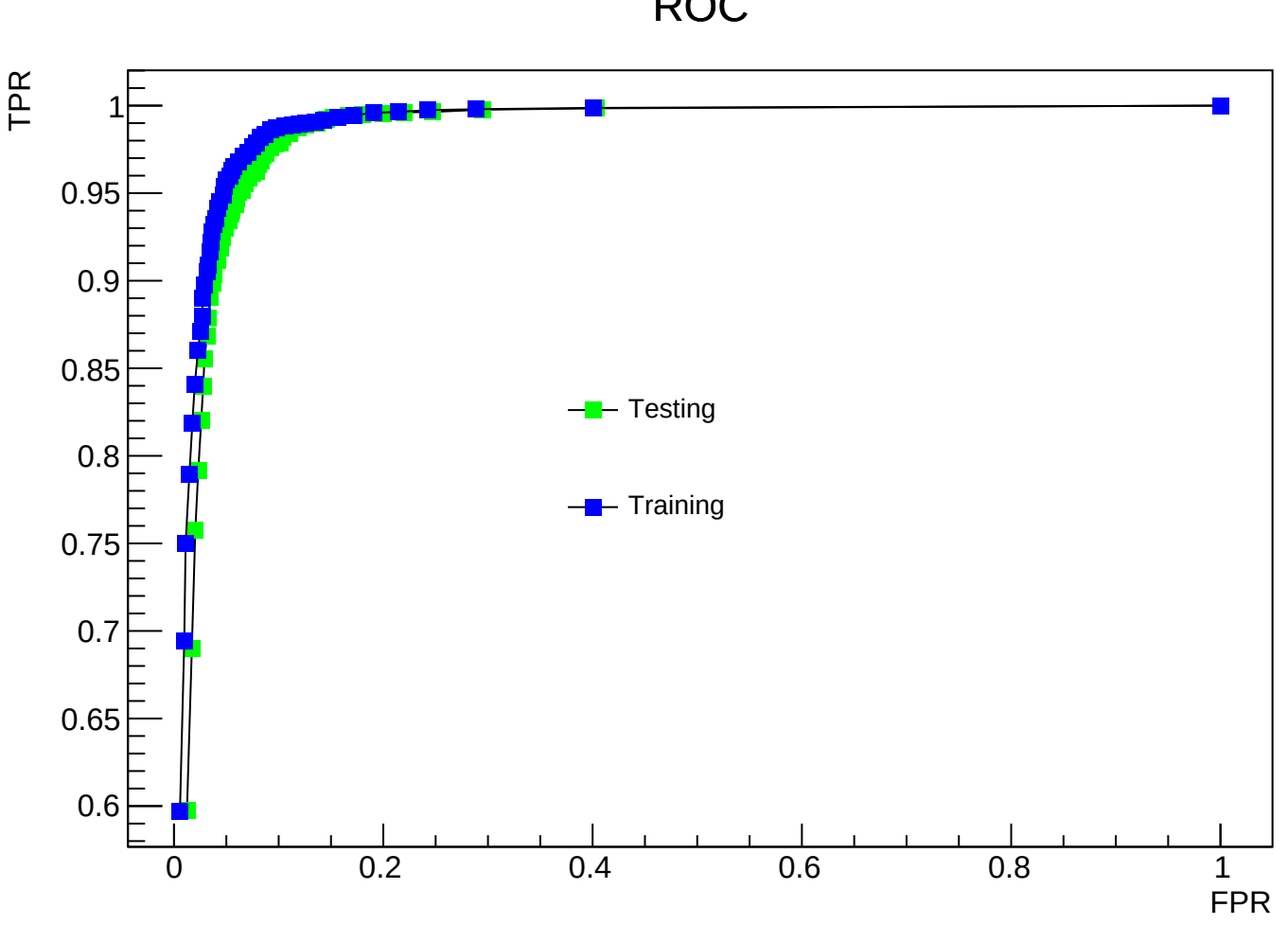
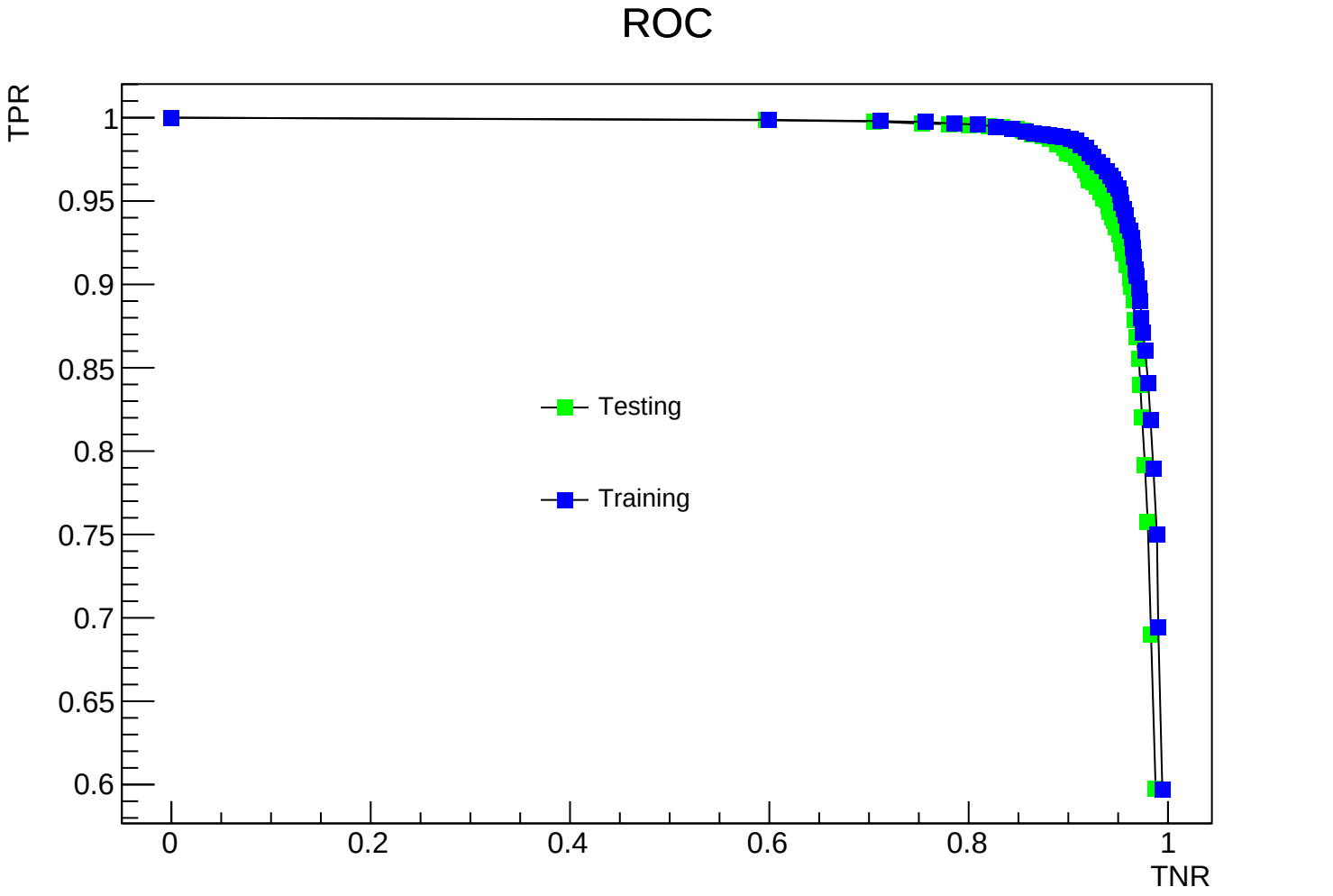
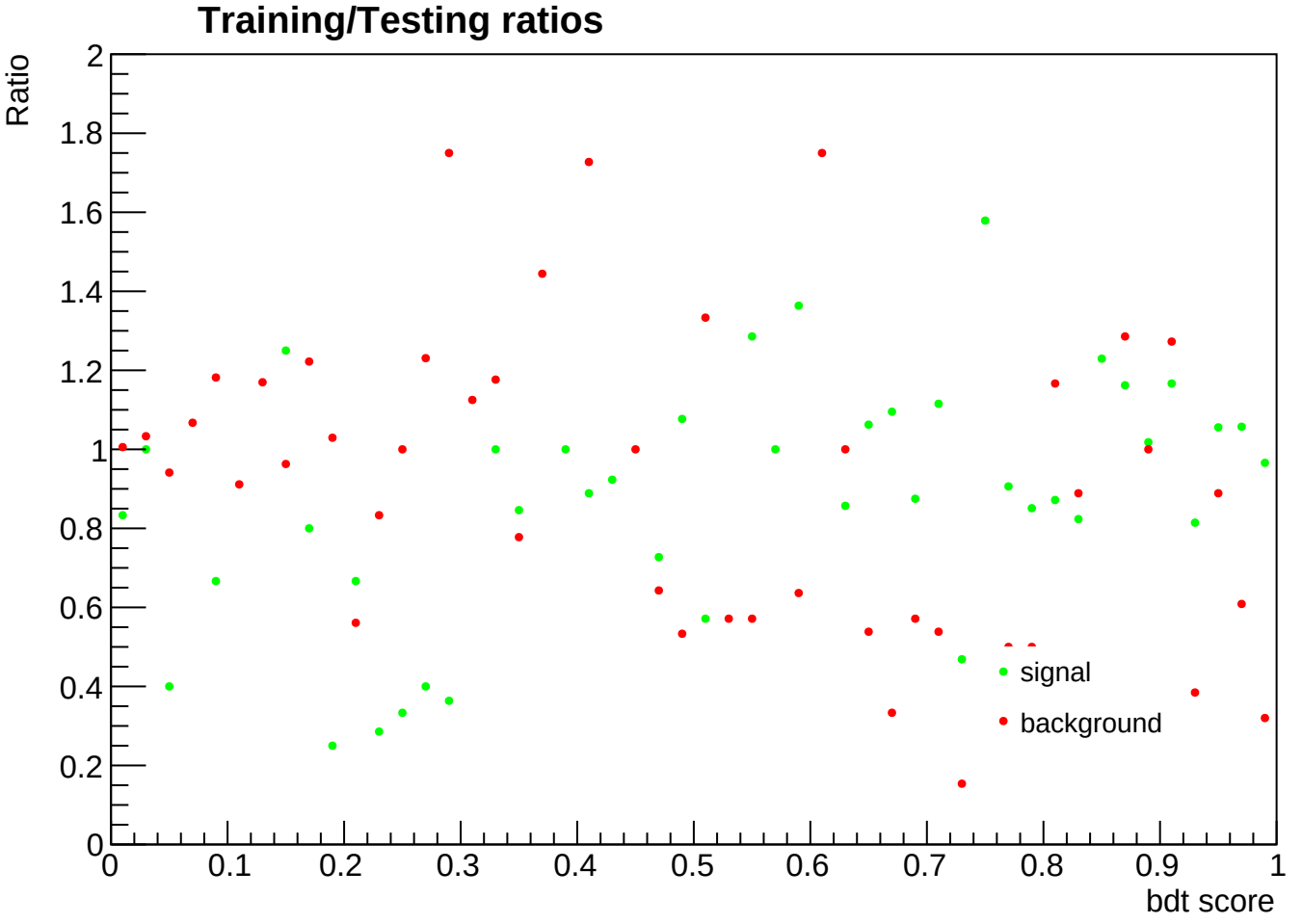
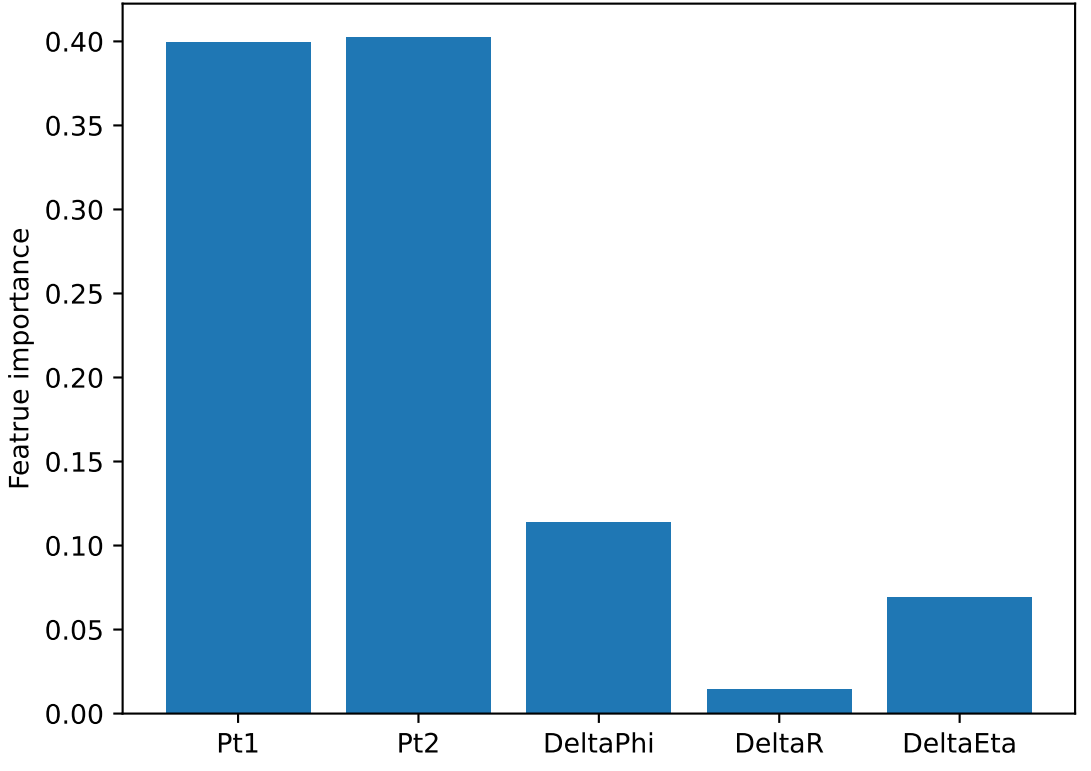

BDT histogram
events
6000
5000
4000
3000
2000
1000
signal testing
signal training
background testing
background training
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score


BDT histogram
events
signal testing
signal training
background testing
background training
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


ROC
TPR
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0
0.2
0.4
0.6
0.8
1
FPR
Testing
Training


ROC
TPR
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
0.6
0
0.2
0.4
0.6
0.8
1
TNR
Testing
Training


Training/Testing ratios
Ratio
2
1.8
1.6
1.4
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
bdt score
signal
background


Featrue importance
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
Pt1
Pt2
DeltaPhi
DeltaR
DeltaEta