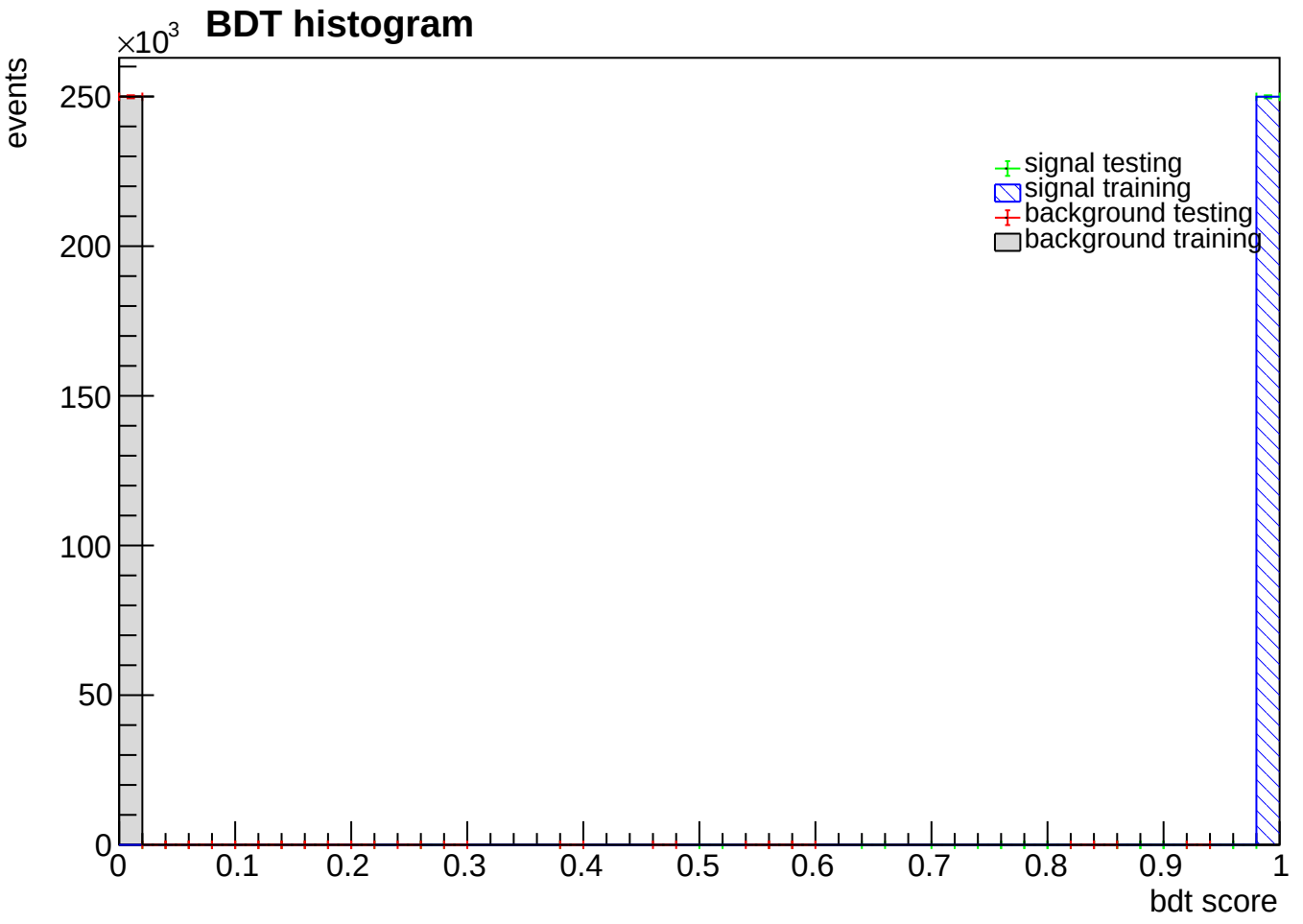
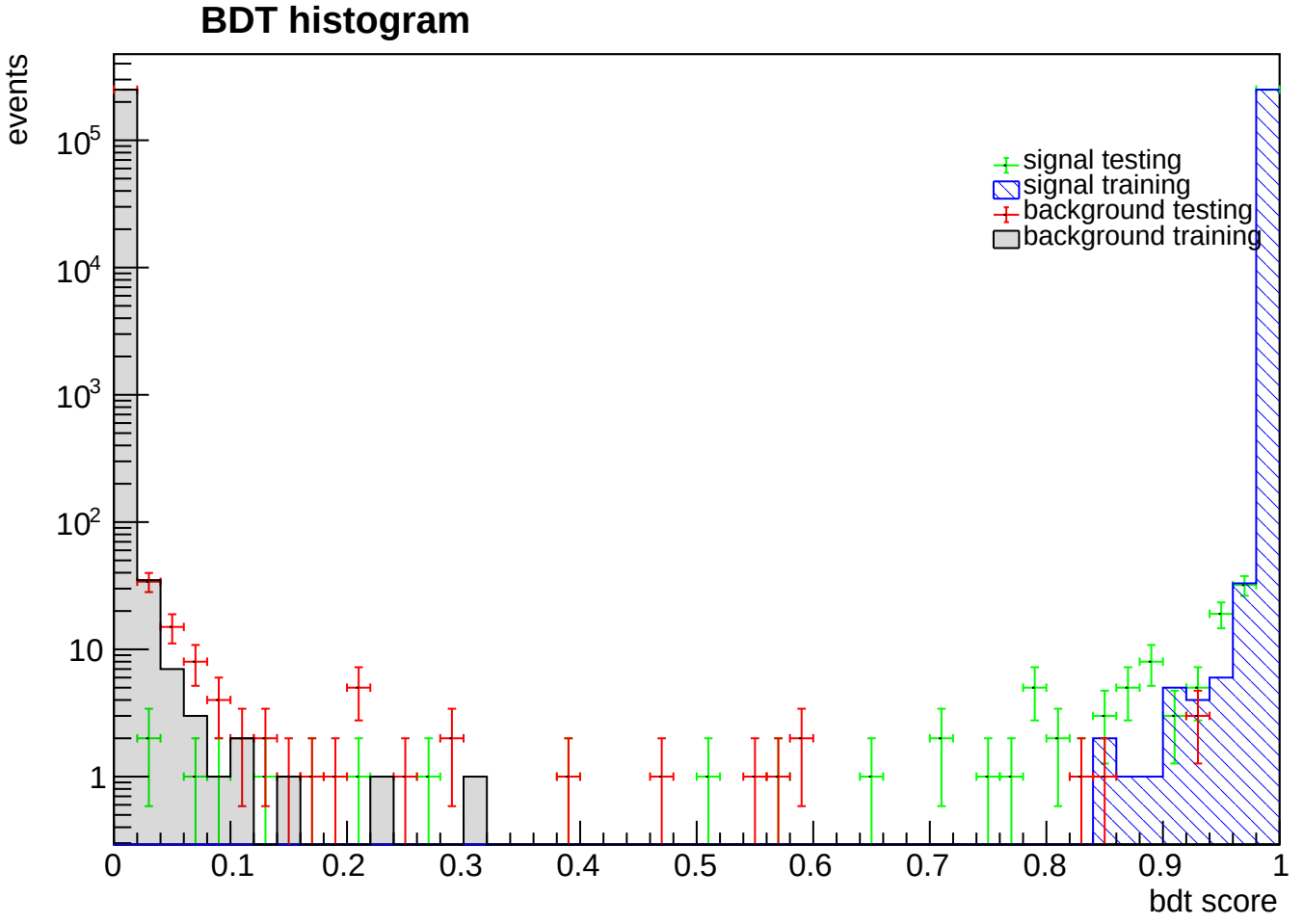
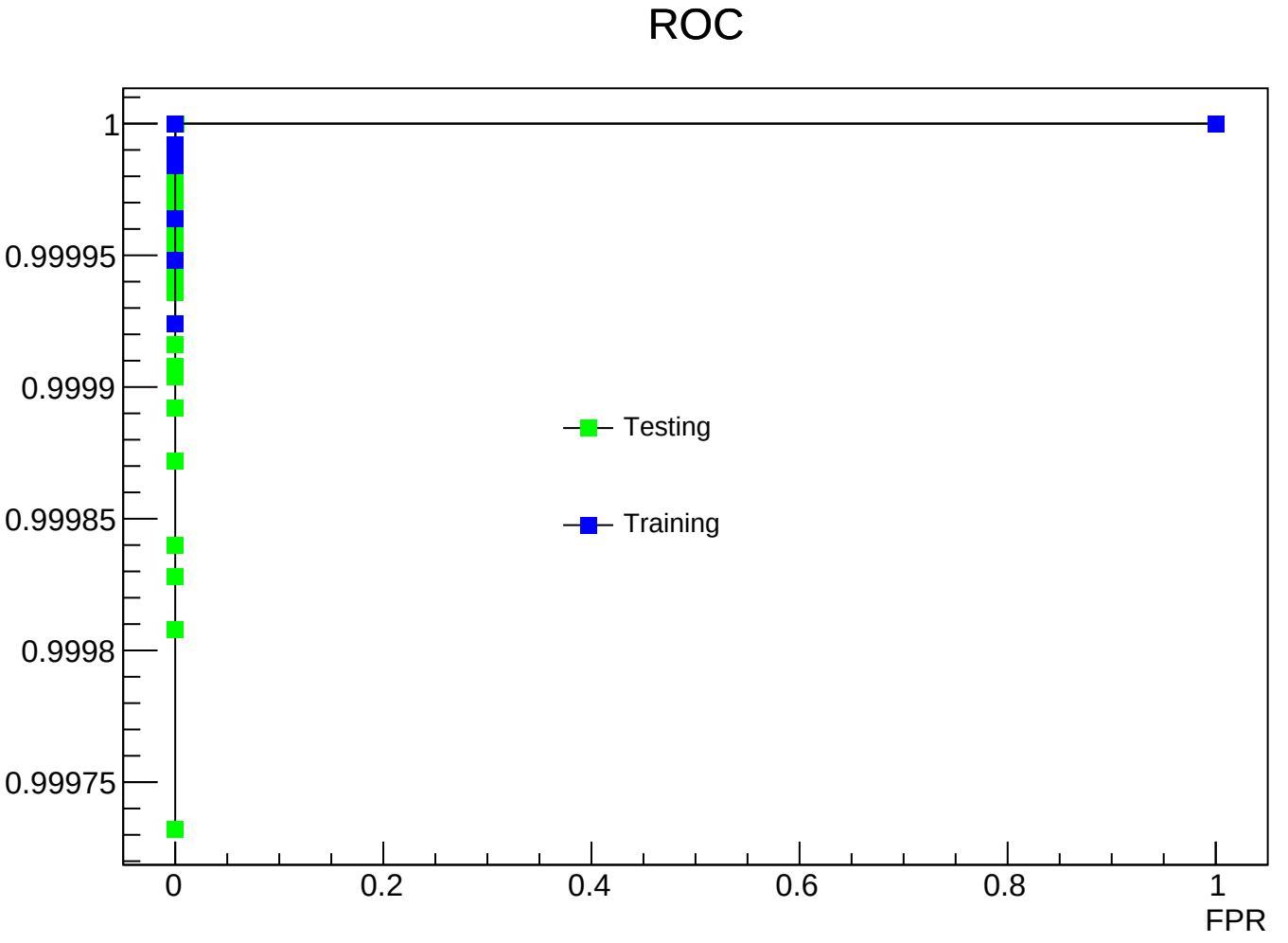
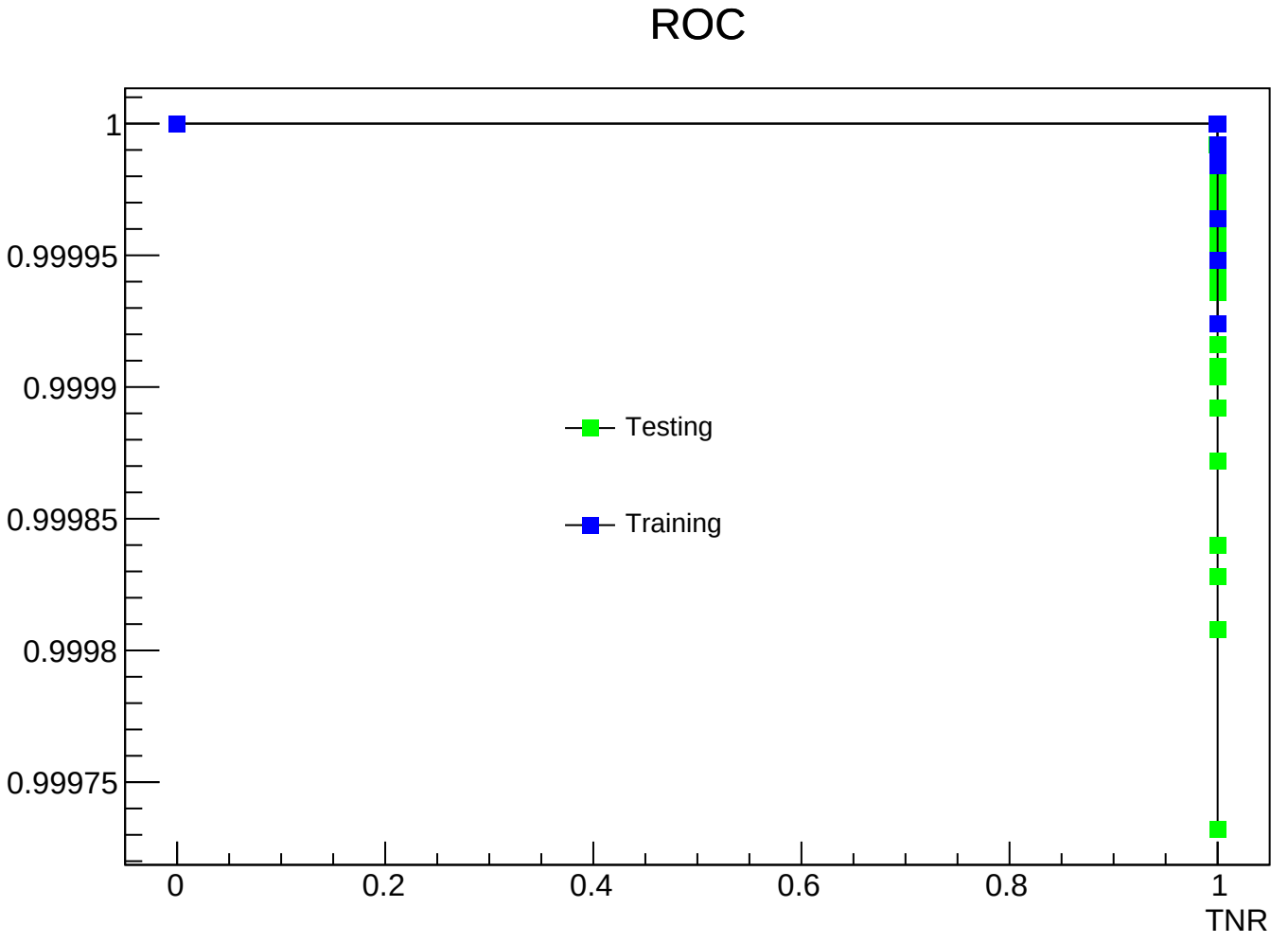
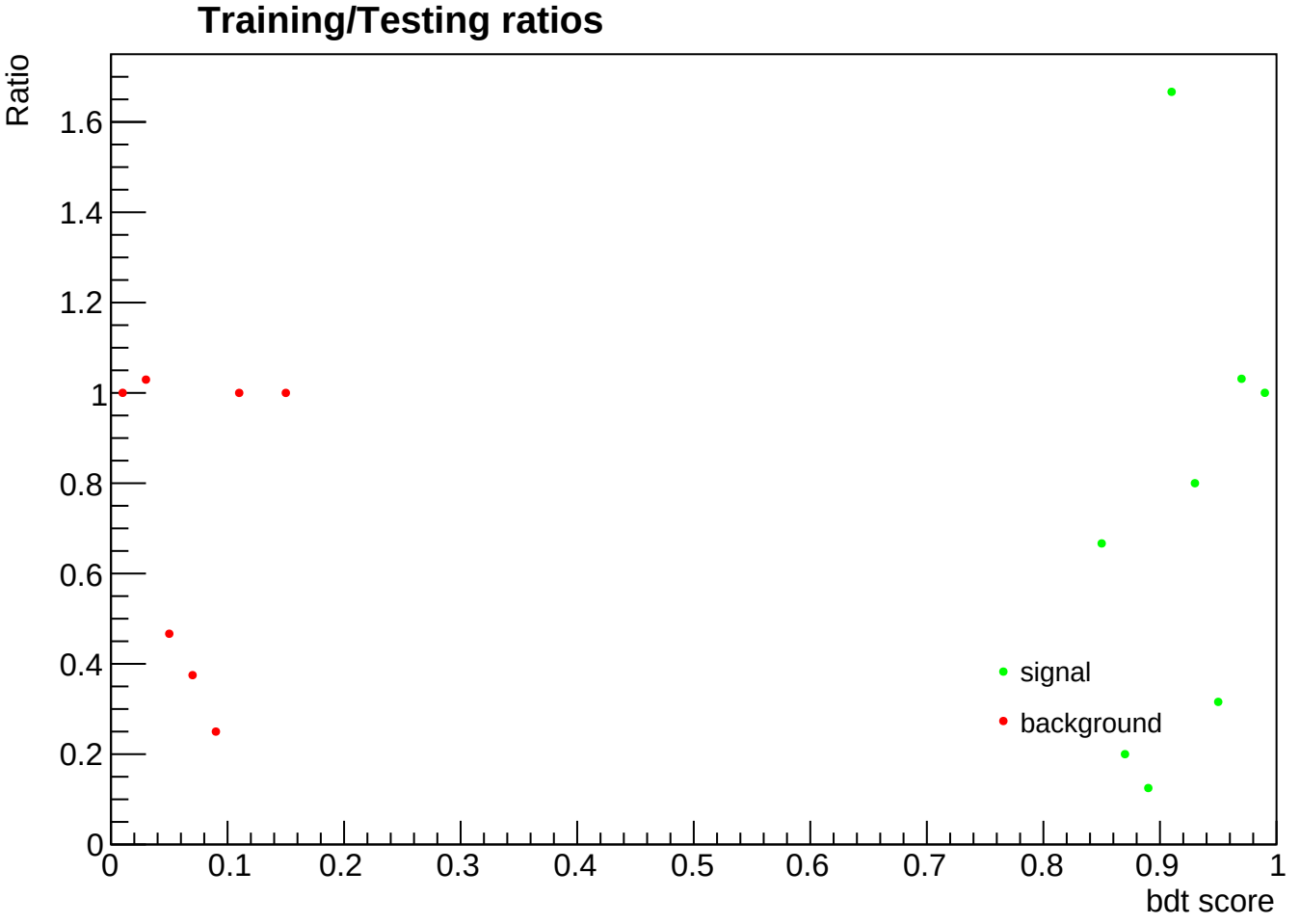
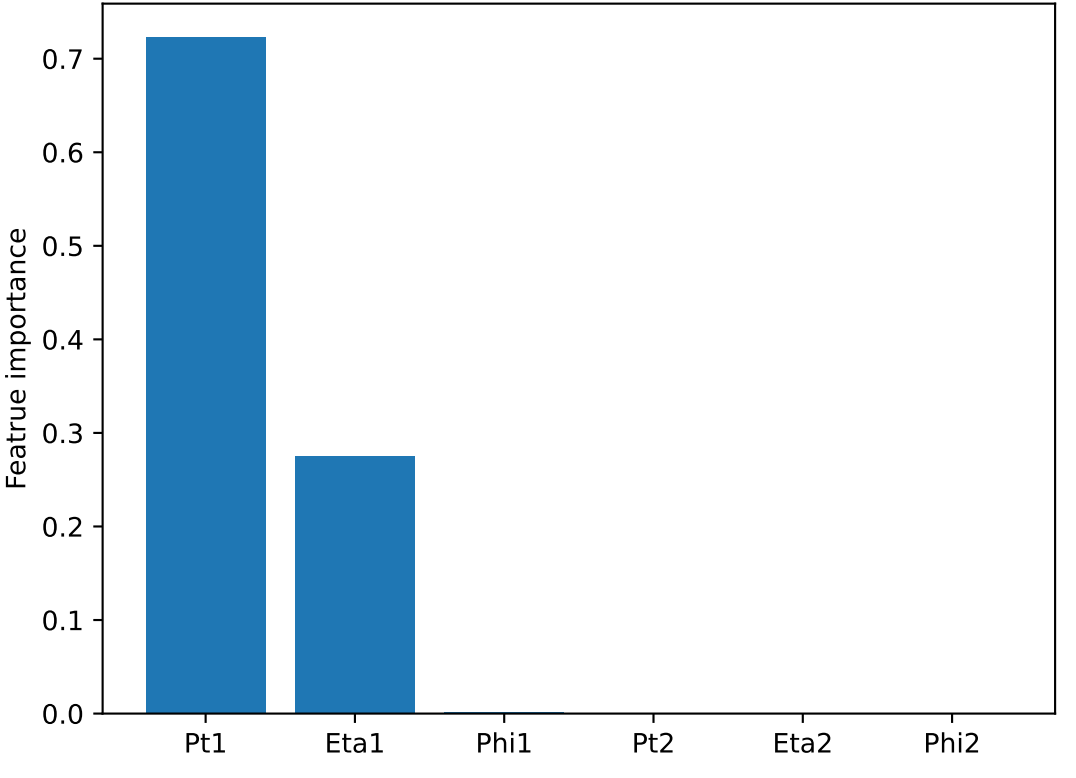

BDT histogram
×10^3
events
250
200
150
100
50
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
bdt score
signal testing
signal training
background testing
background training


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
0.99995
0.9999
0.99985
0.9998
0.99975
0
0.2
0.4
0.6
0.8
1
FPR
Testing
Training


ROC
1
0.99995
0.9999
0.99985
0.9998
0.99975
0
0.2
0.4
0.6
0.8
1
TNR
Testing
Training


Training/Testing ratios
Ratio
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
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Pt1
Eta1
Phi1
Pt2
Eta2
Phi2