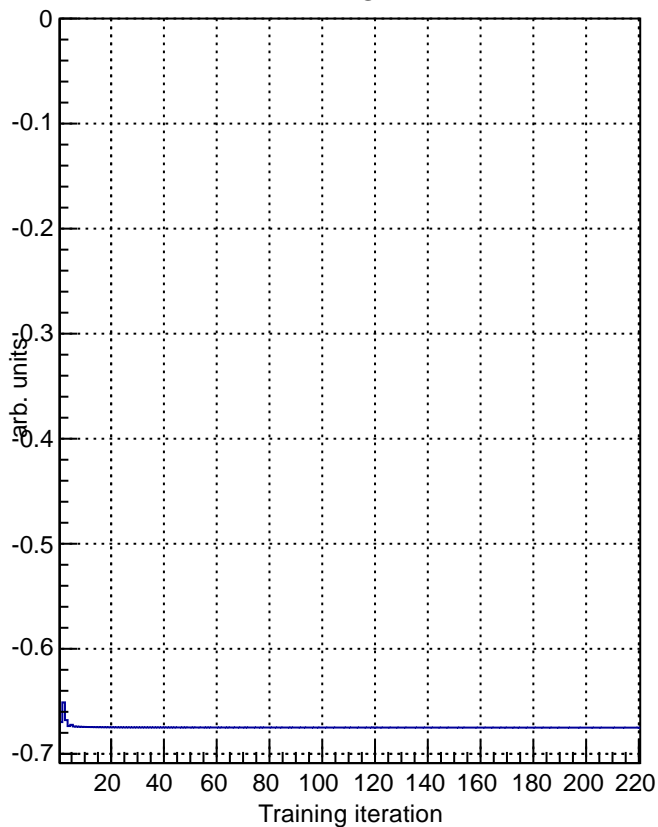
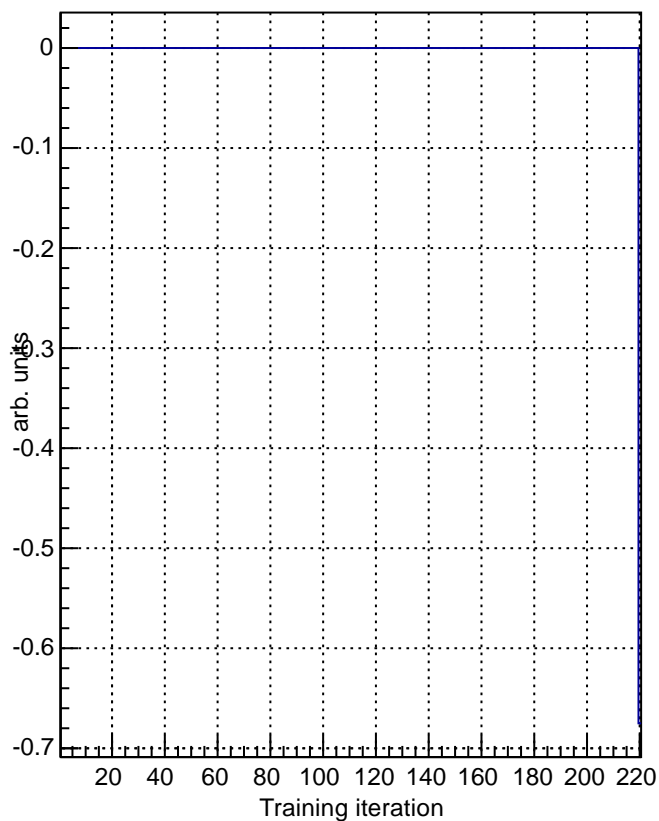


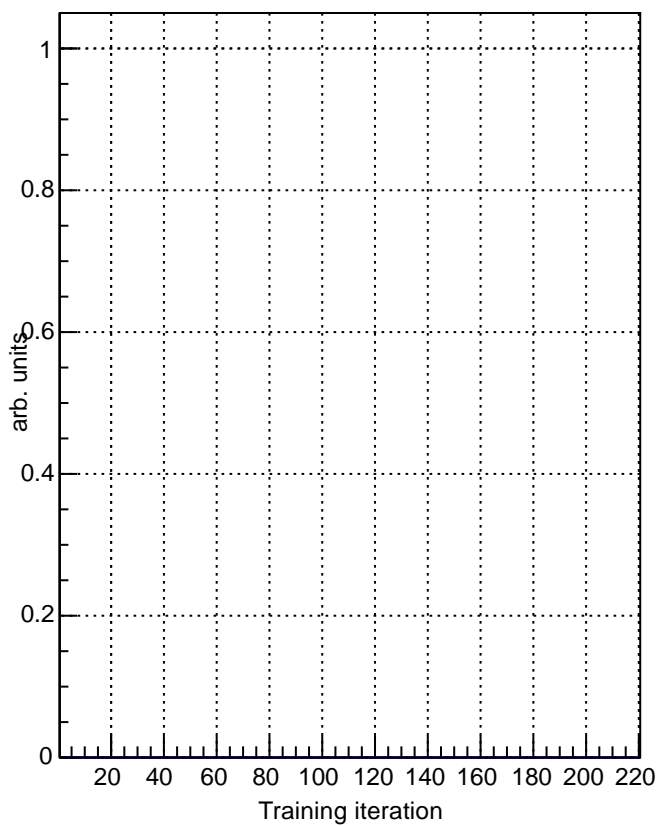
Error



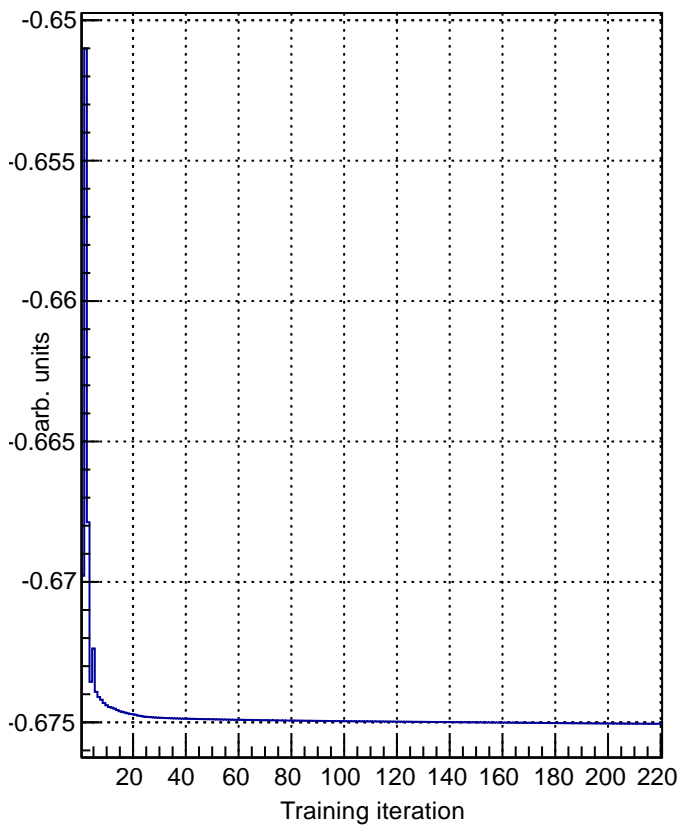
Error Testsample



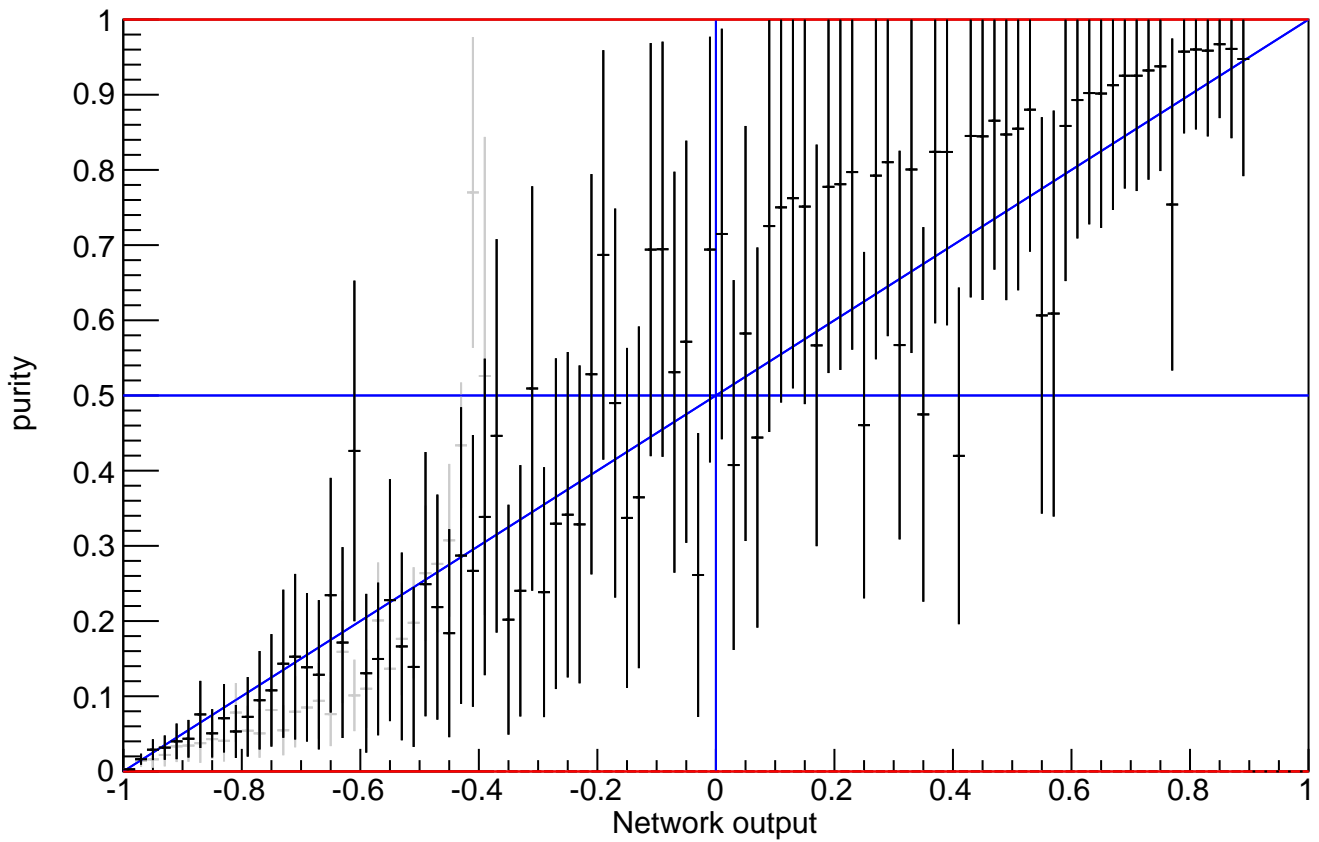
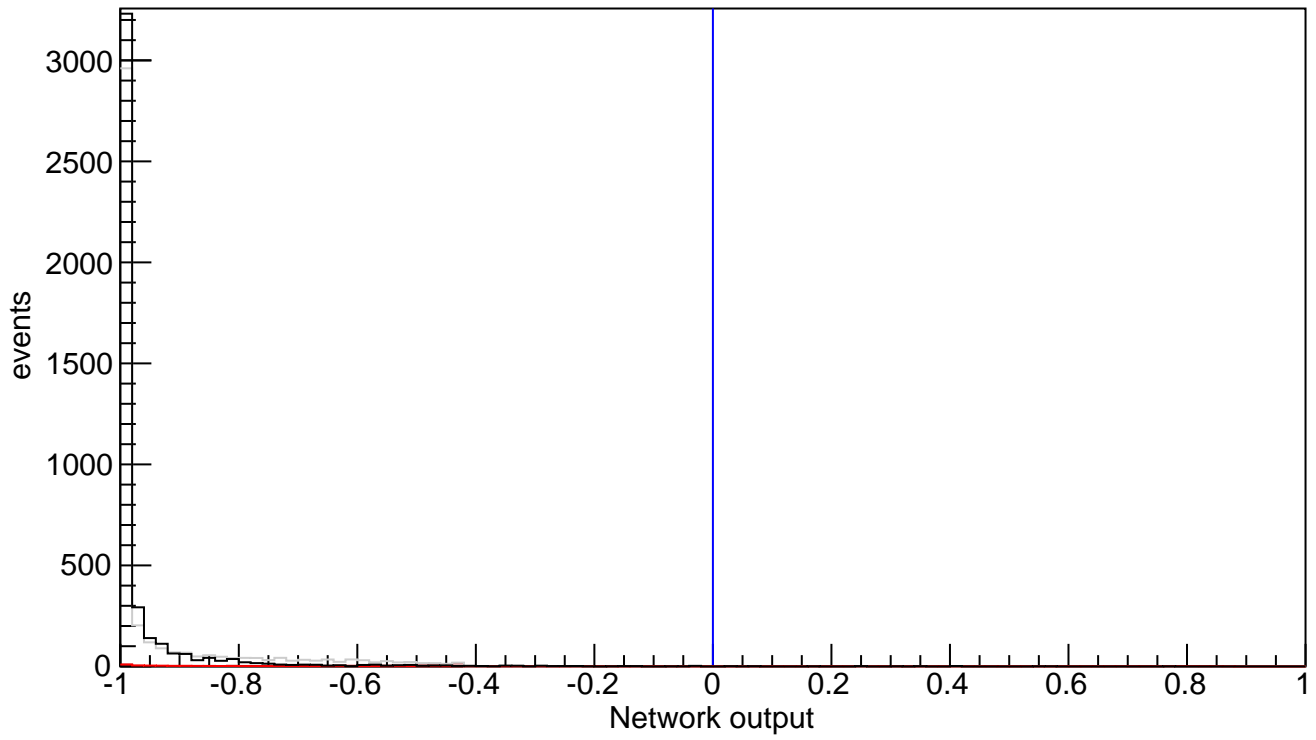
regularisation param. \* weights

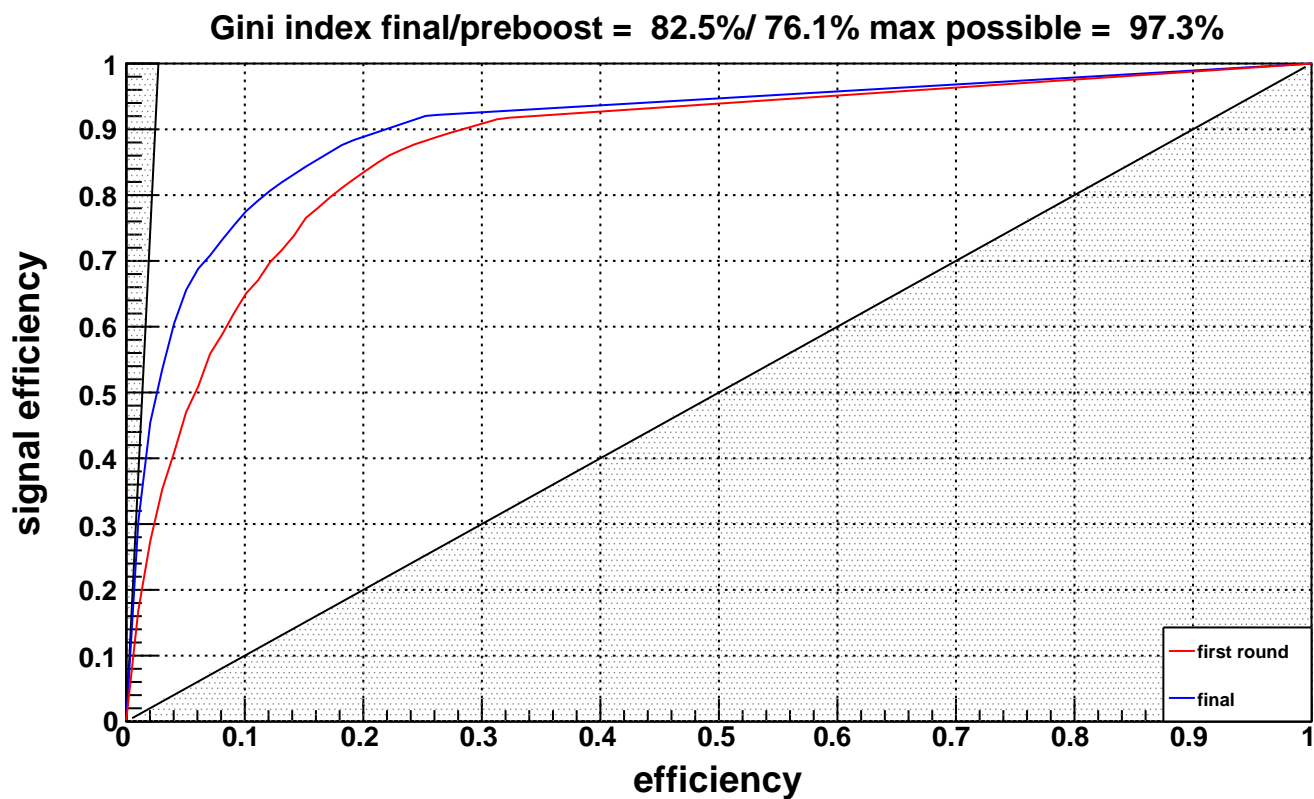
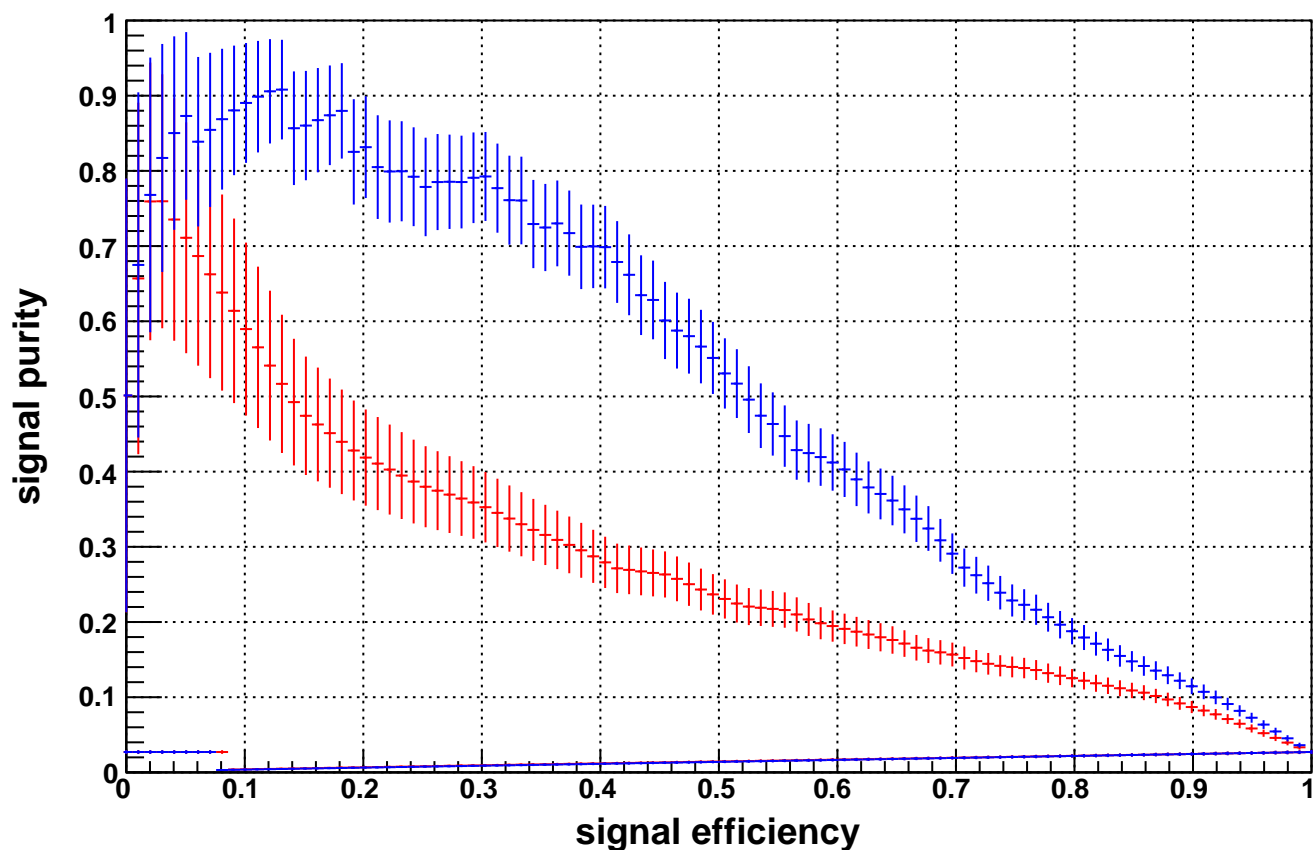


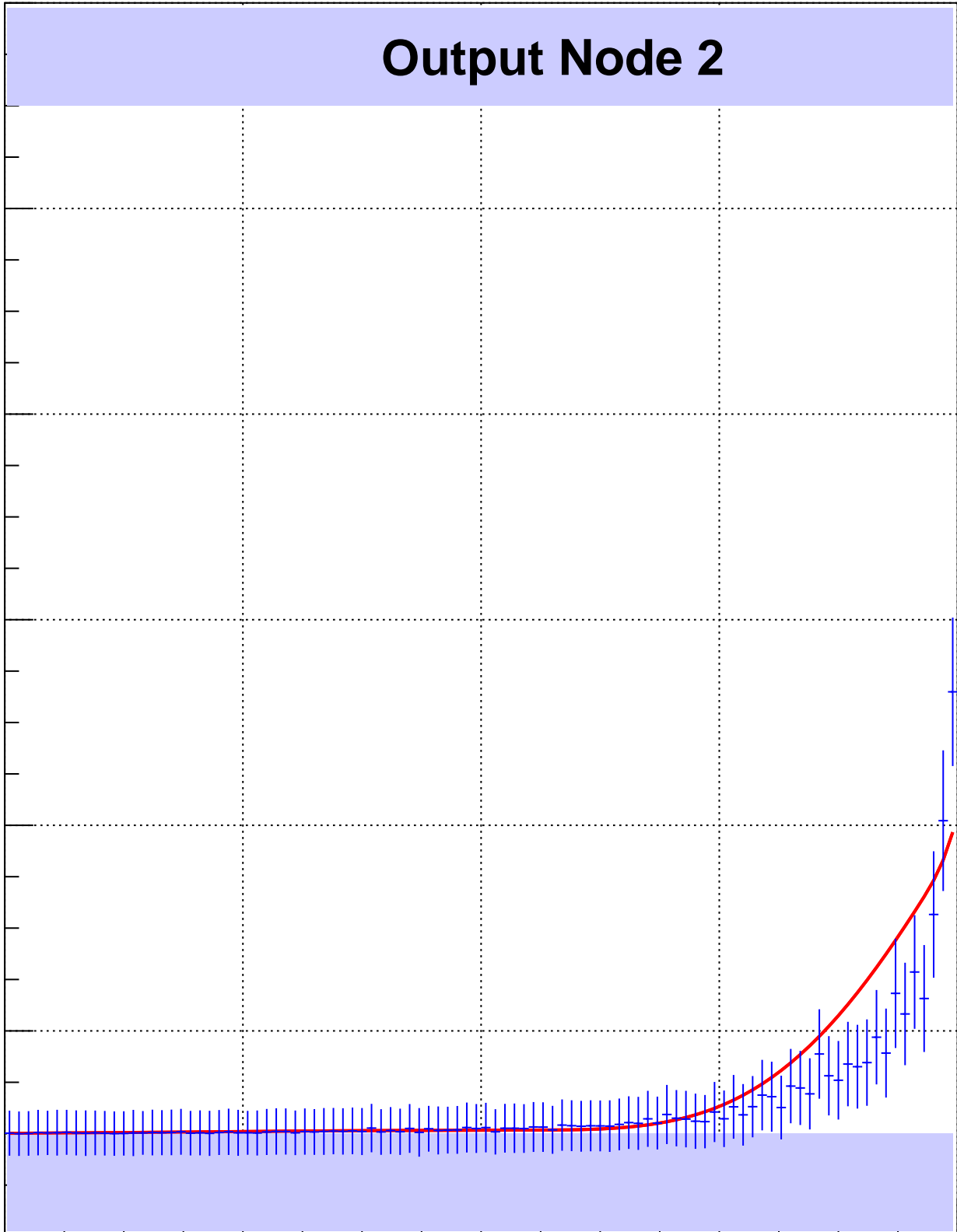
Err-Weight Learnsample



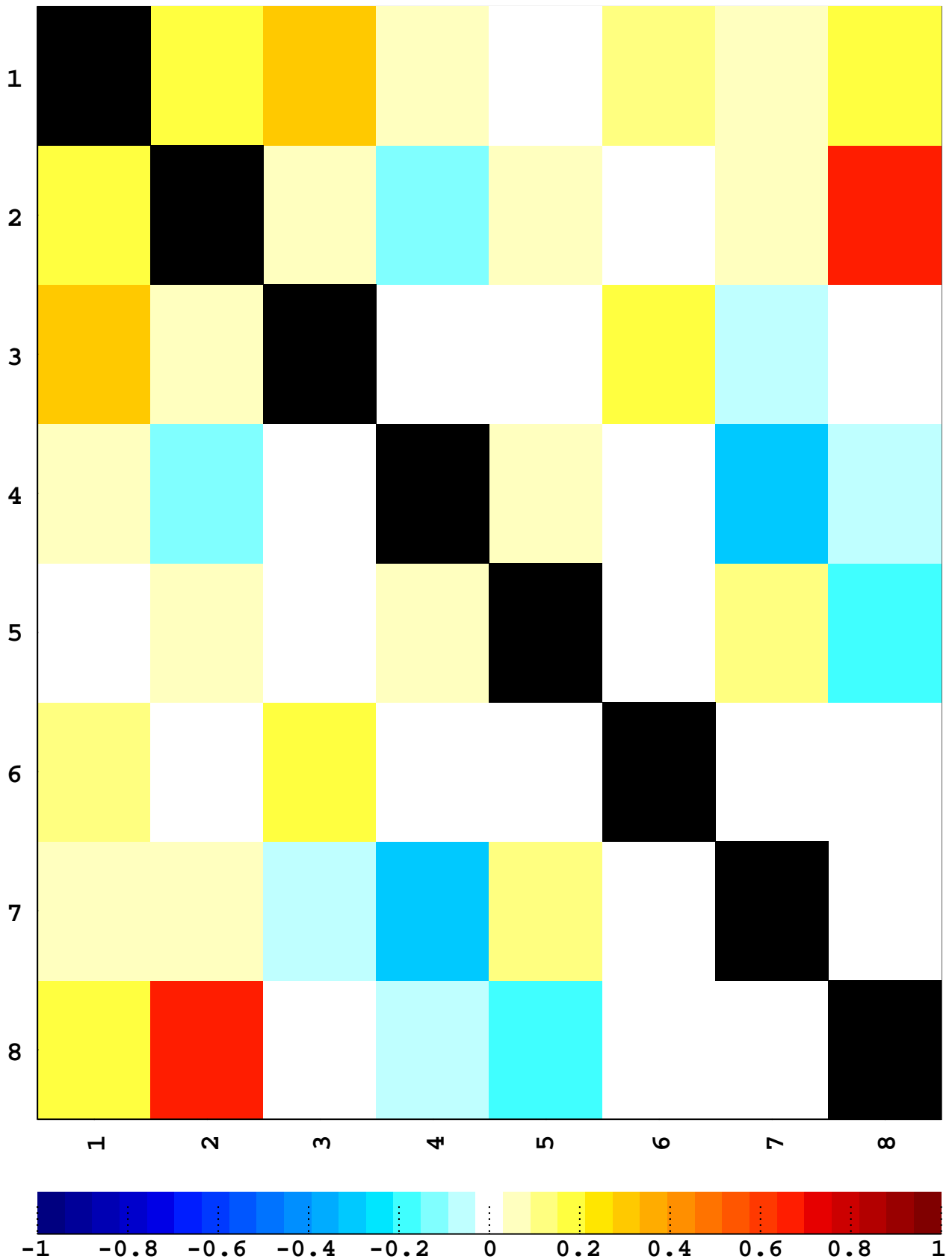
**Output Node 1 (n = 4341.3 s = 116.782 b = 4224.52  $p_{\text{sig}} = 0.0269$ )**



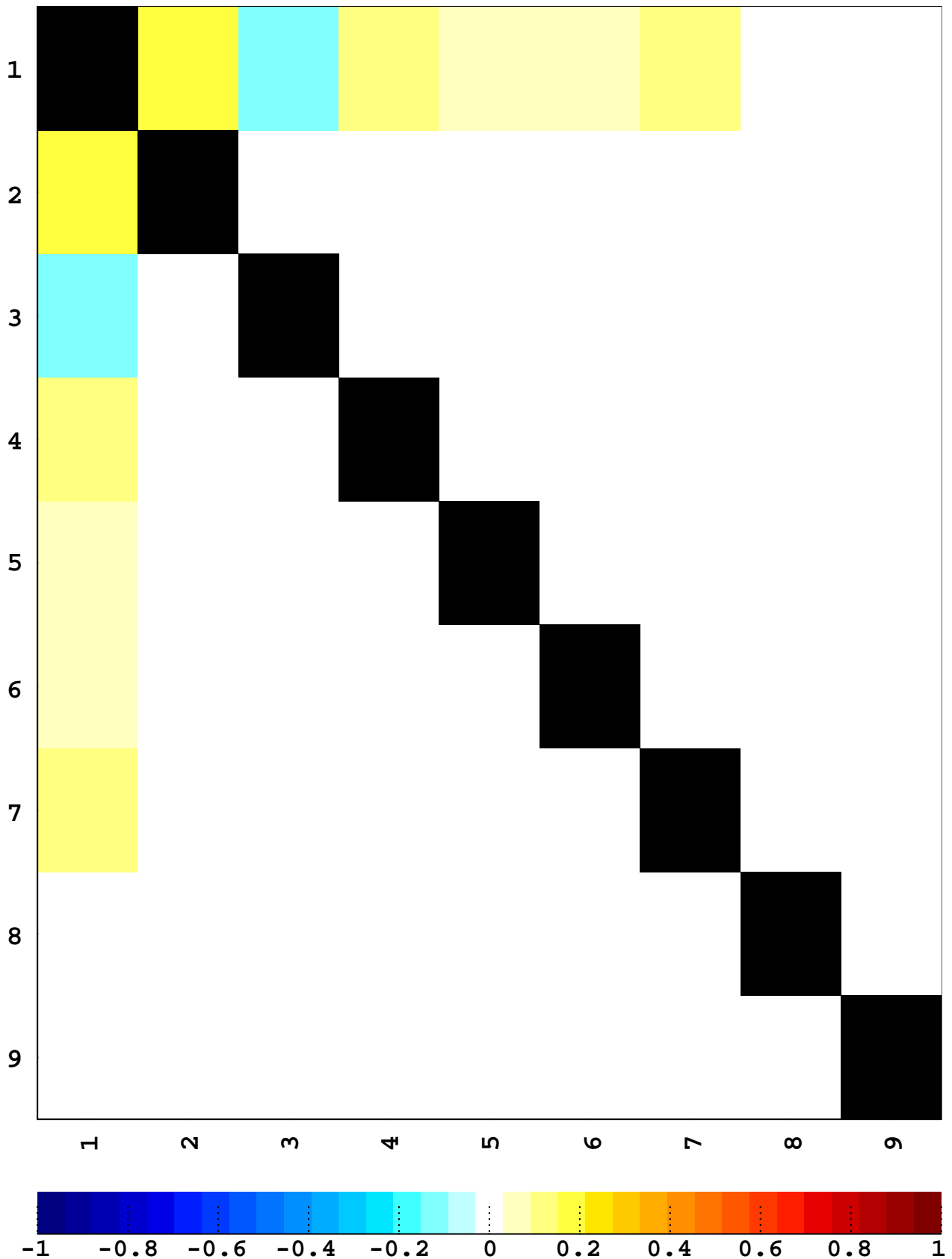


**Output Node 2**

## correlation matrix of input variables



## correlation matrix of input variables



Input node 3 : jdeta

1st most important

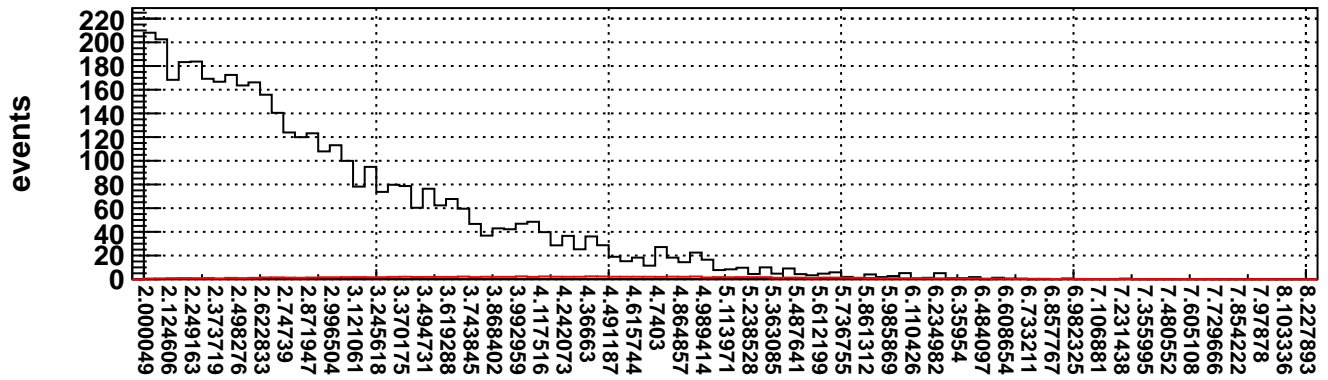
added signi. 18.92

signi. loss 17.76

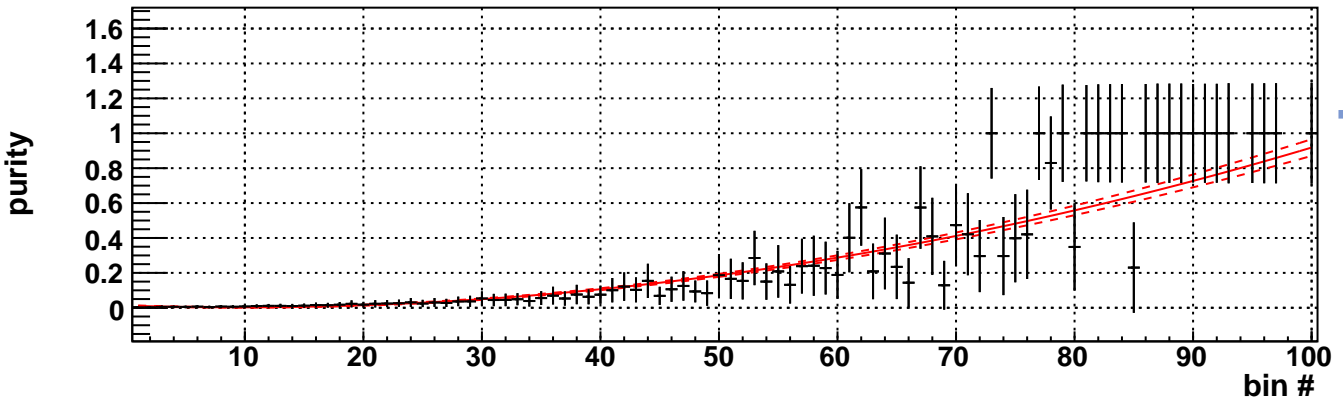
PrePro: 24 #3

only this 18.92

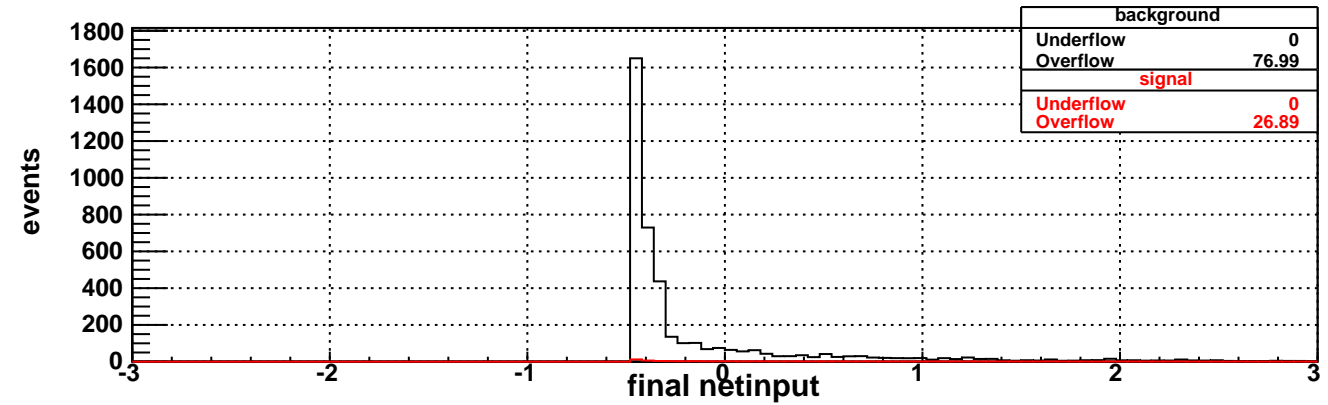
corr. to others 20.40%



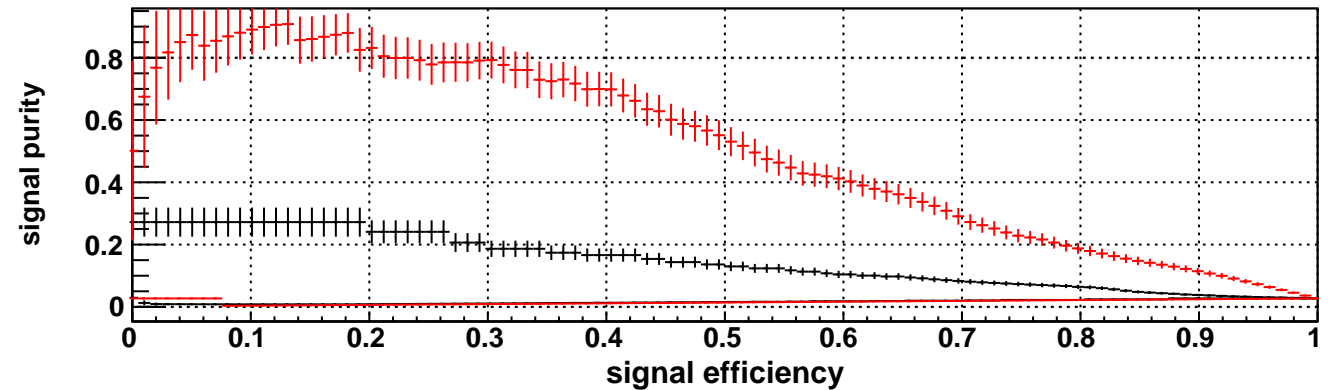
flat



spline fit



final



separation

Input node 2 : svfit\_mass

2nd most important

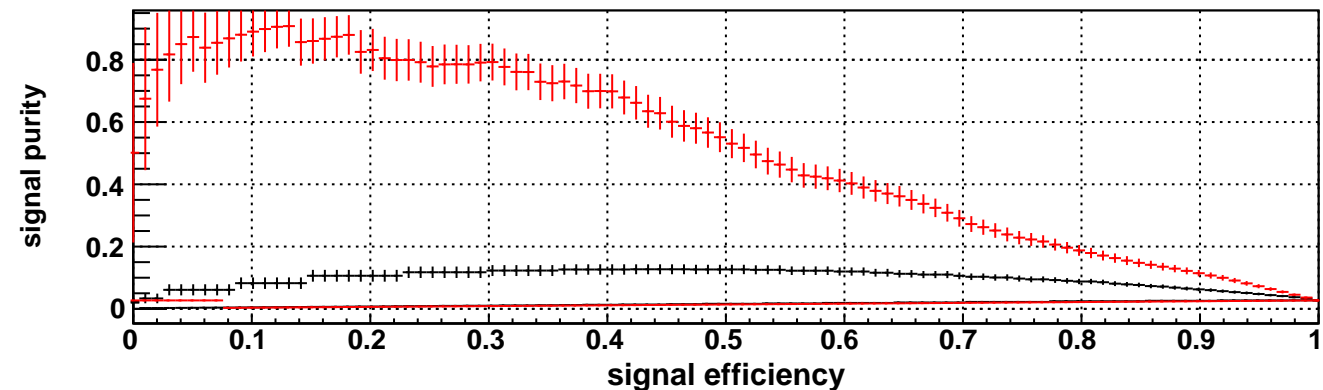
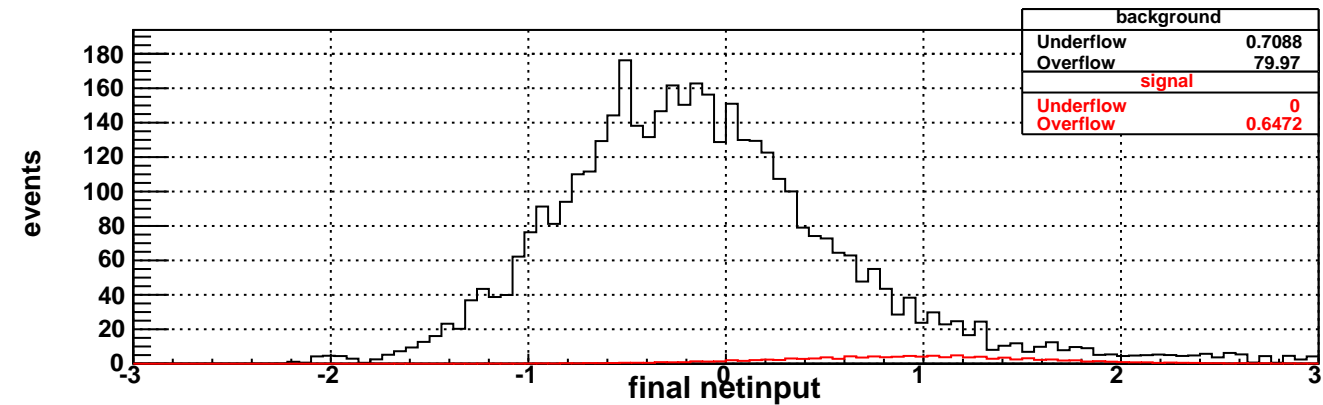
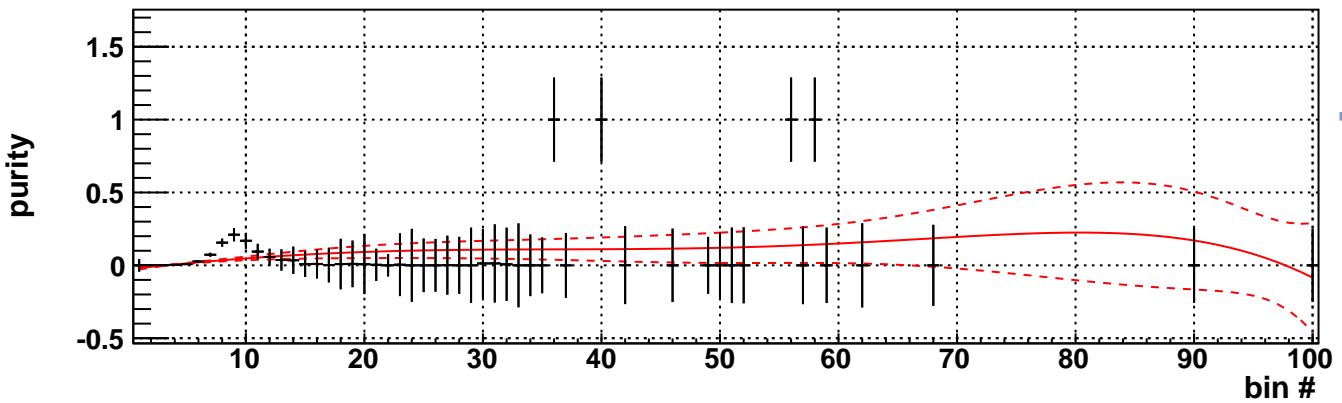
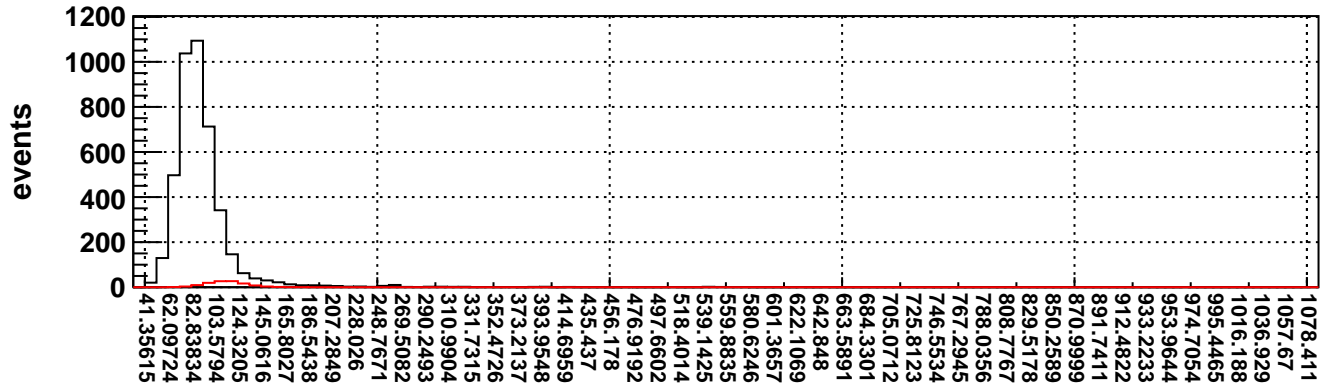
added signi. 9.66

signi. loss 4.54

PrePro: 24 #2

only this 10.28

corr. to others 67.40%





Input node 4 : pt\_tot

3rd most important

added signi. 5.40

signi. loss 6.59

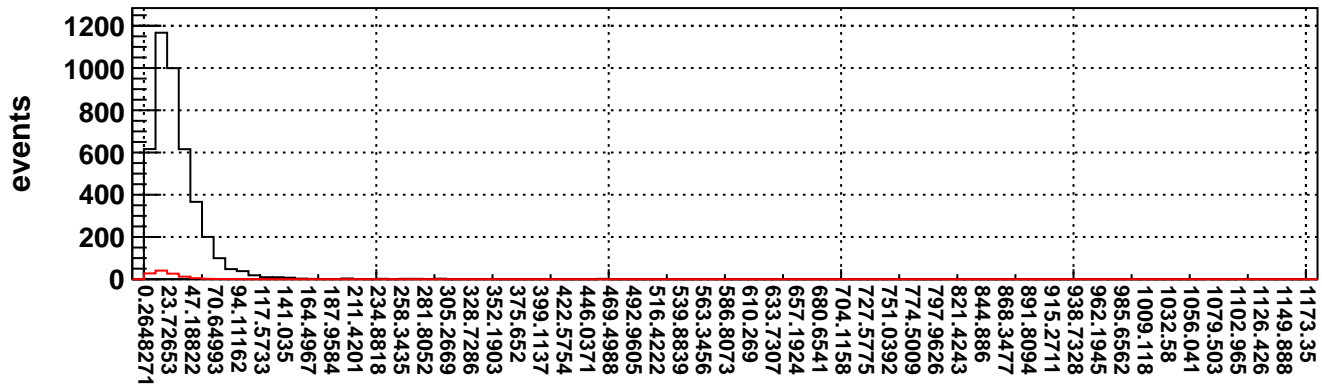
PrePro: 25 #4

only this 3.84

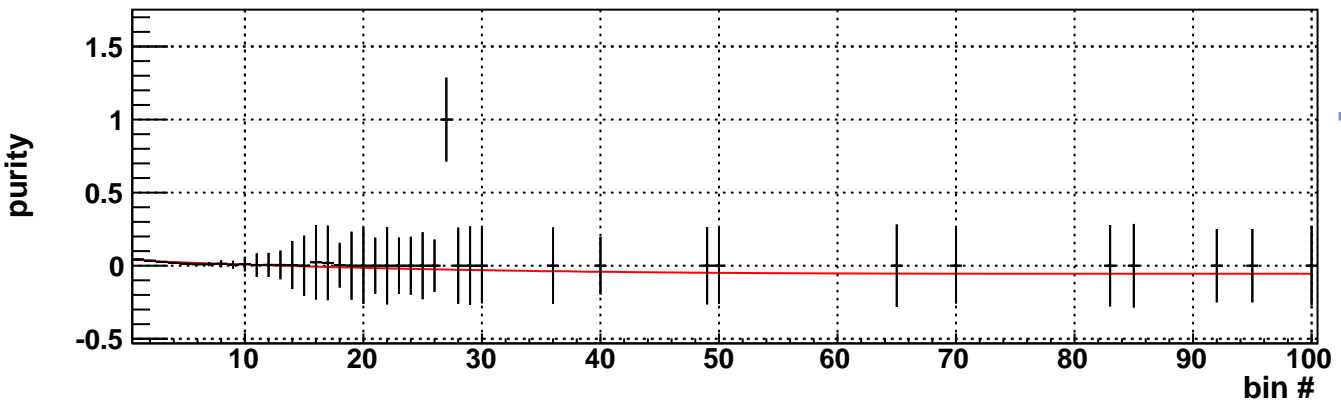
corr. to others 35.70%

Phi-T

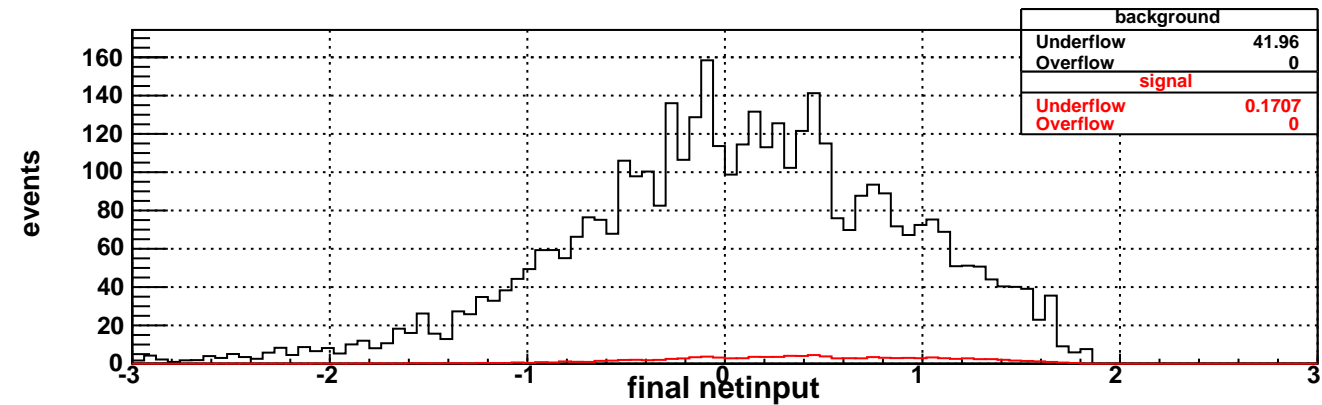
NeuroBayes® Teacher



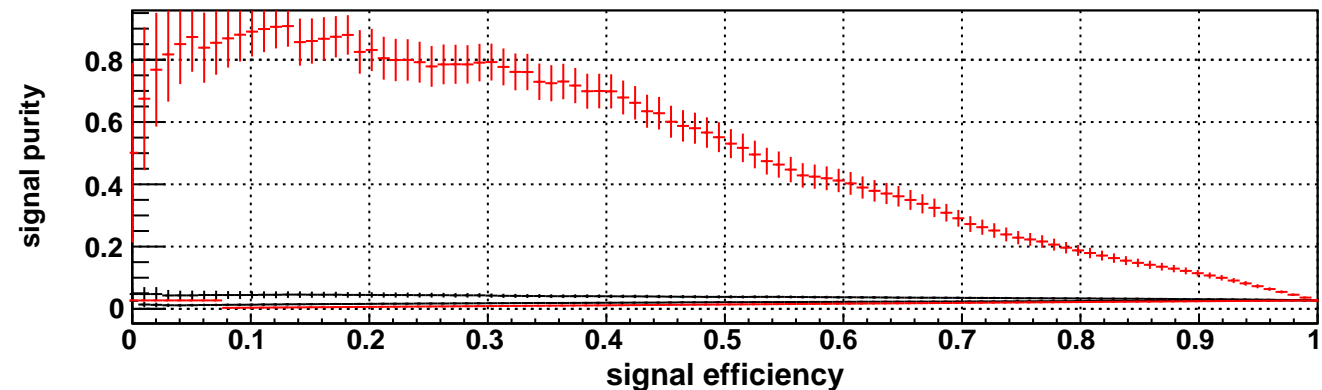
flat



spline fit



final



separation

Input node 7 : pt\_sum

4th most important

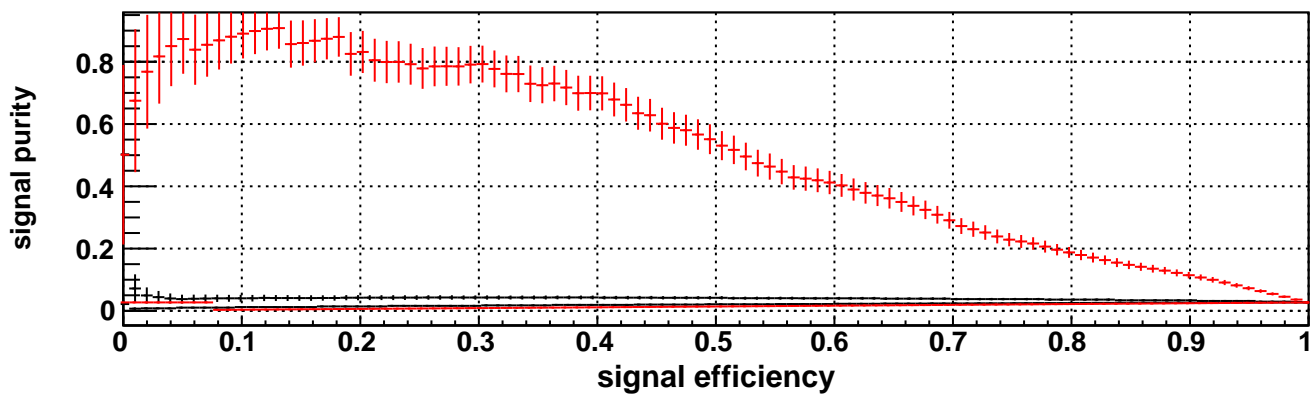
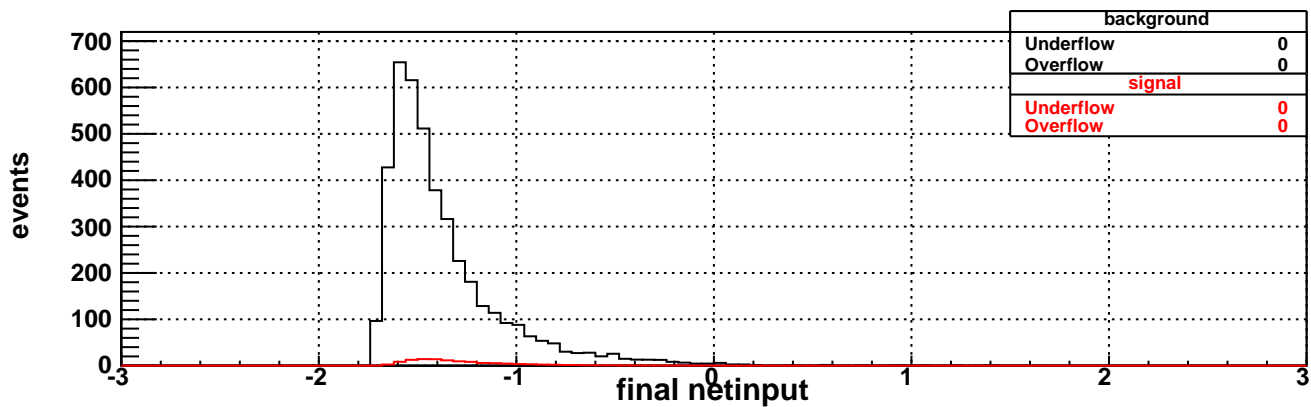
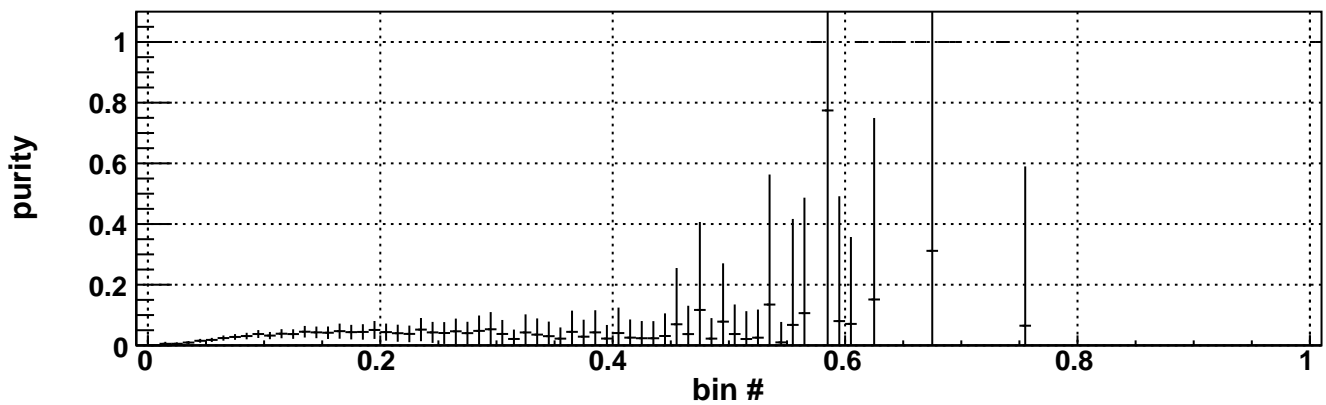
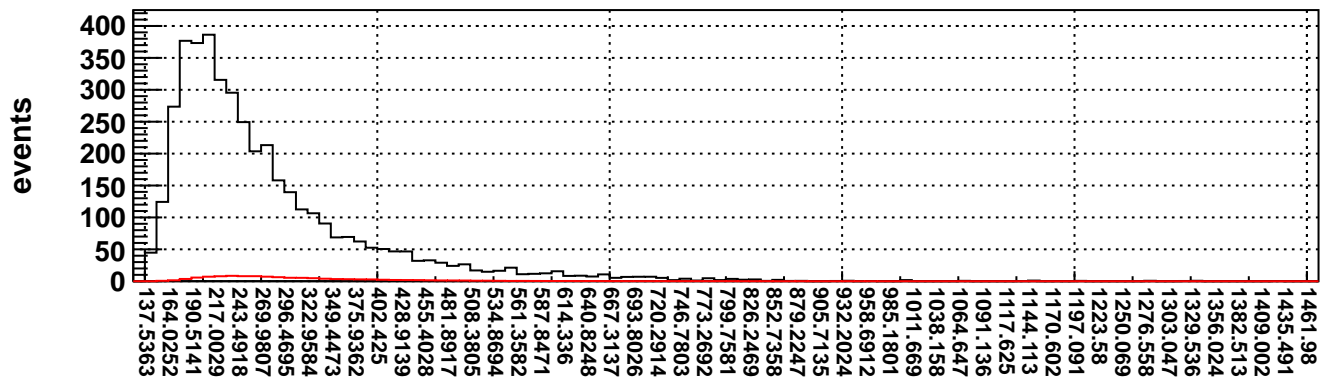
added signi. 5.90

signi. loss 6.08

PrePro: 23 #7

only this 3.66

corr. to others 35.30%



Input node 8 : mvis

5th most important

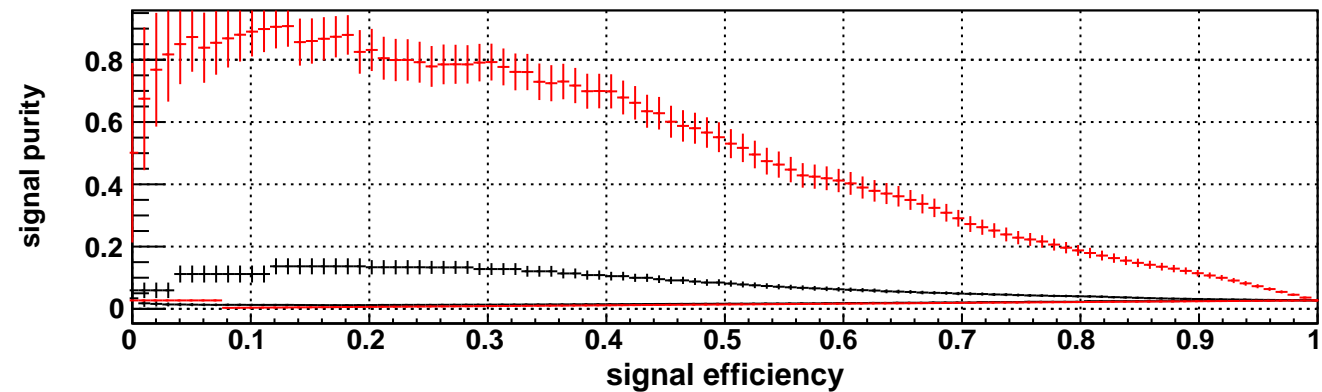
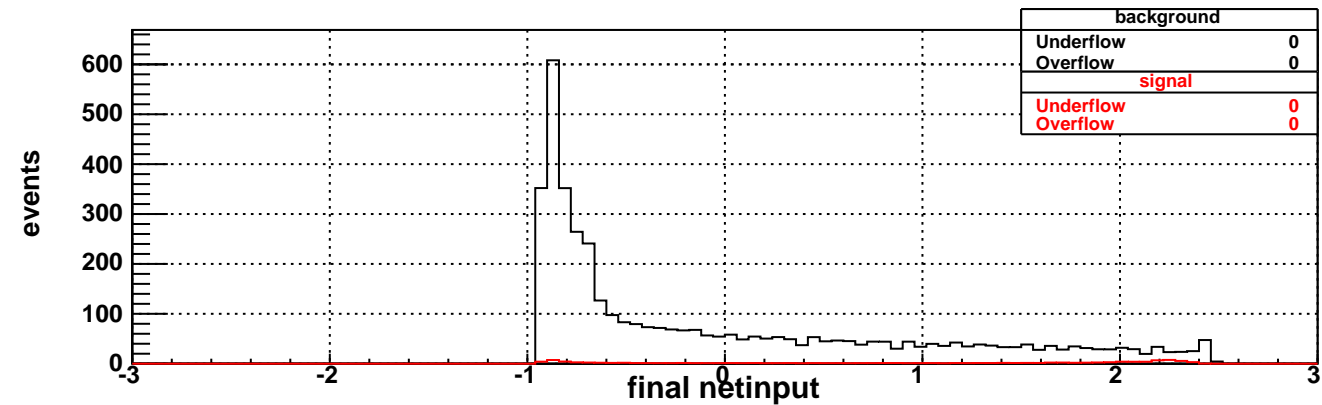
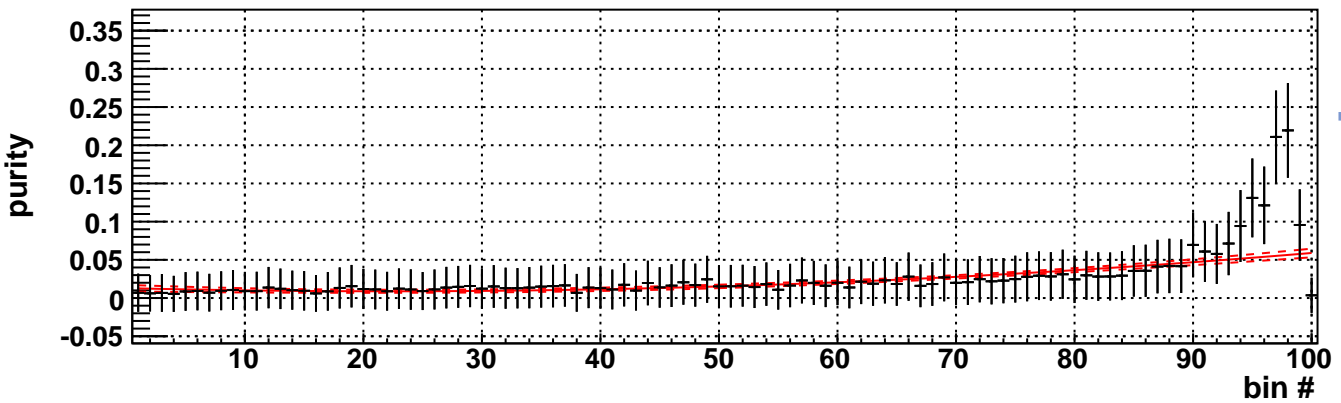
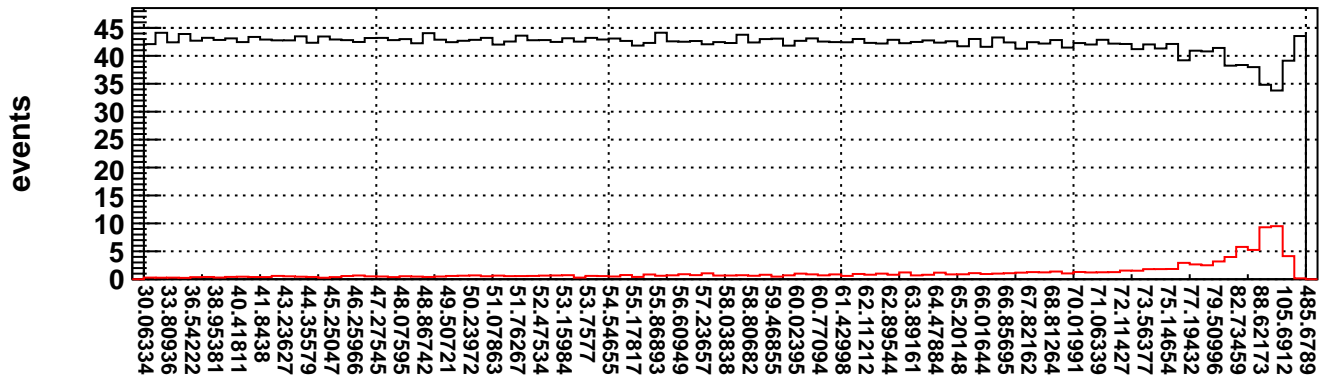
added signi. 4.67

signi. loss 4.59

PrePro: 14 #8

only this 10.08

corr. to others 67.90%



**Input node 6 : lep\_etacentrality**

6th most important

added signi. 4.09

signi. loss 4.08

PrePro: 12 #6

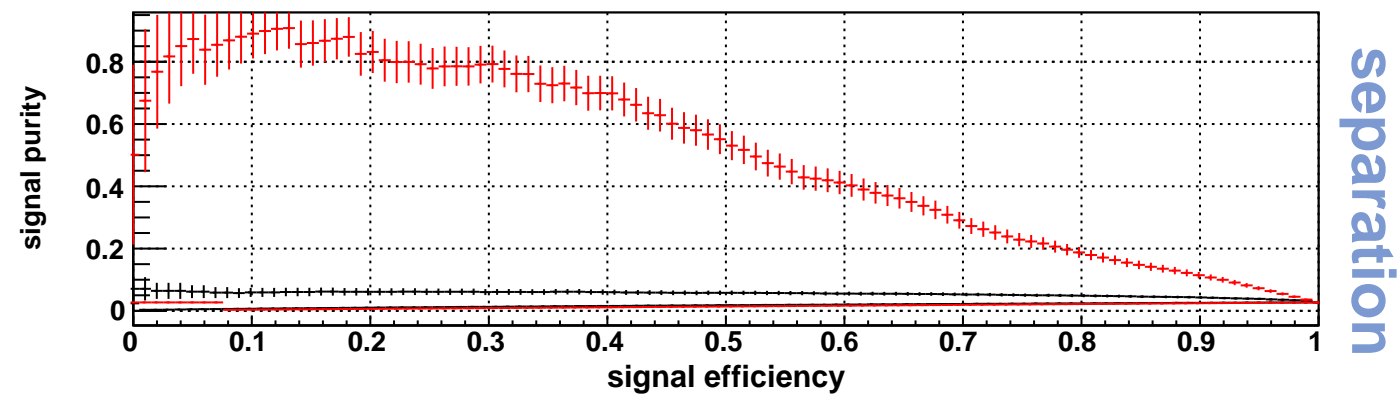
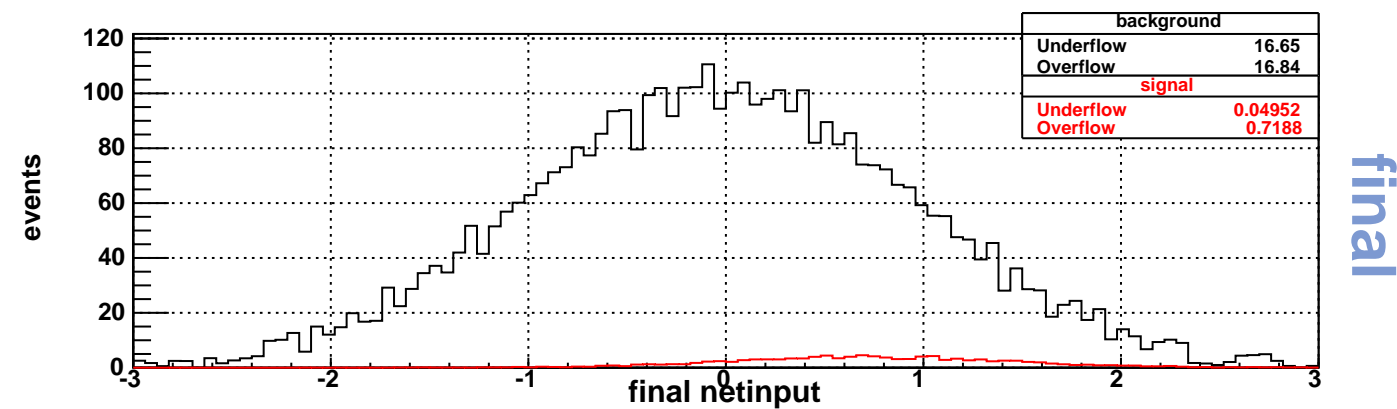
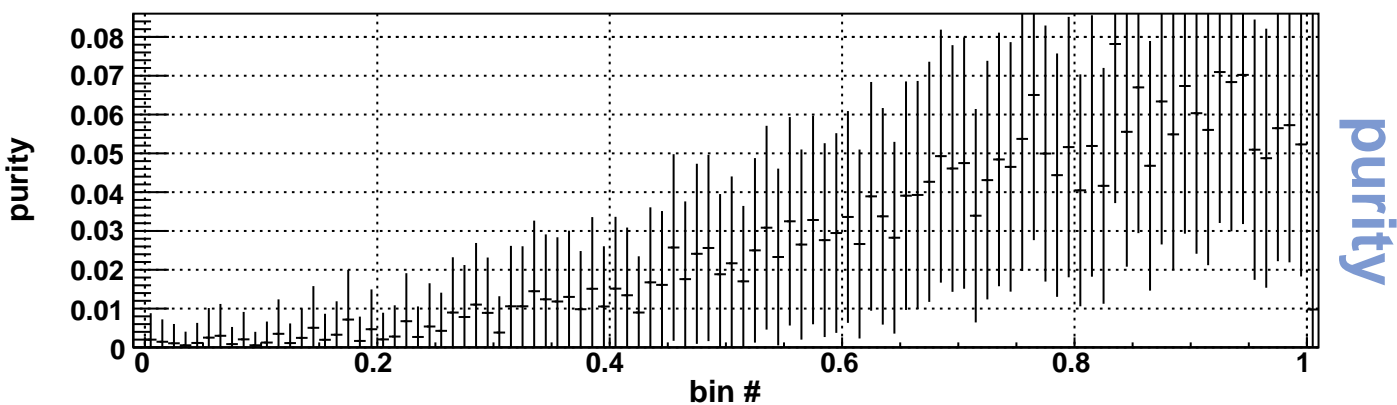
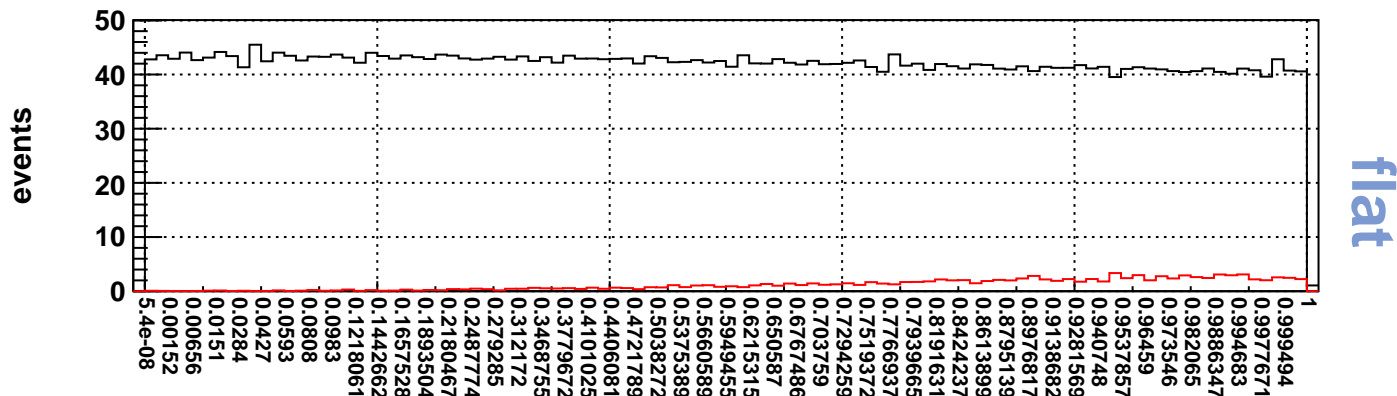
only this 8.00

corr. to others 19.40%



**Phi-T**

NeuroBayes® Teacher



Input node 5 : met centrality

7th most important

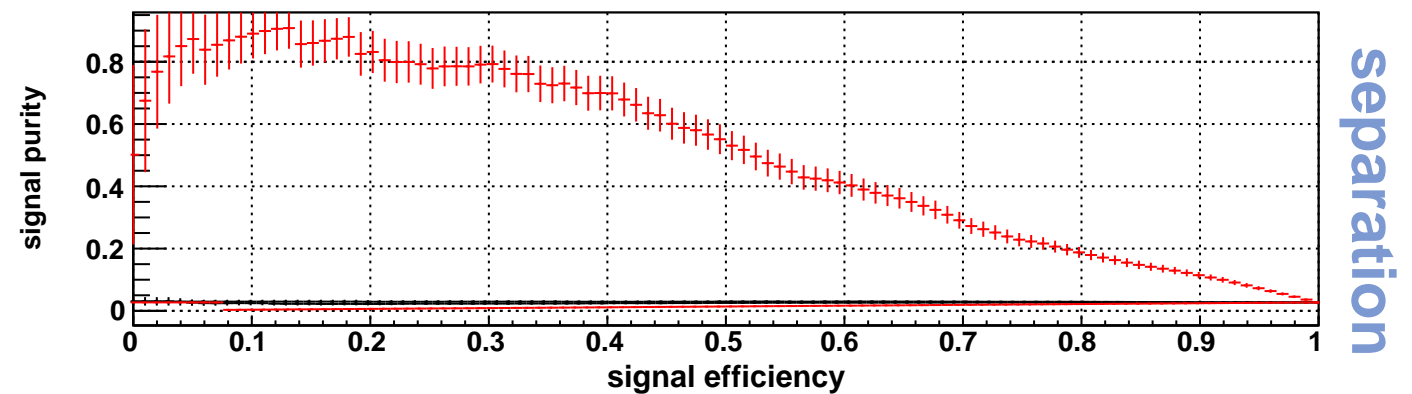
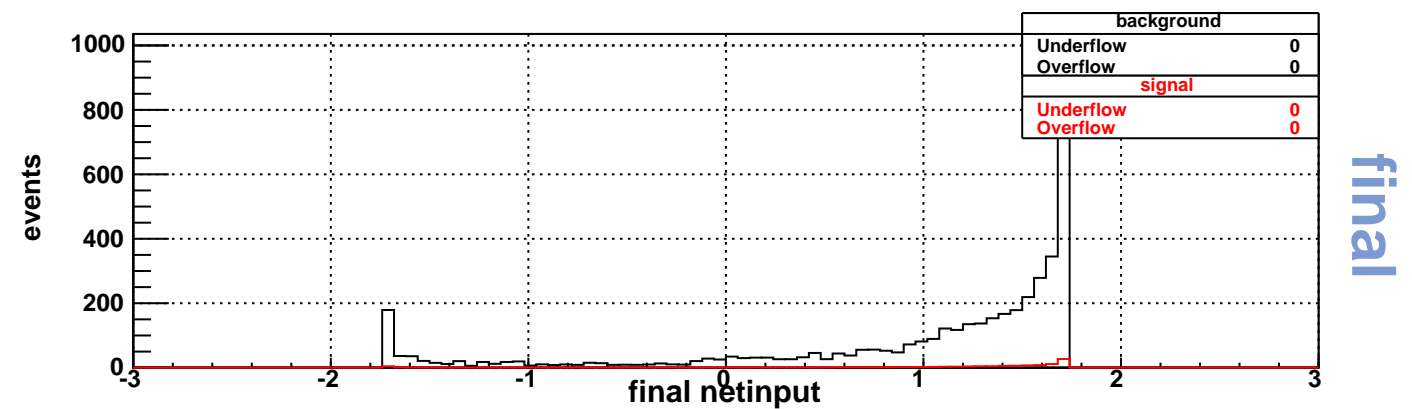
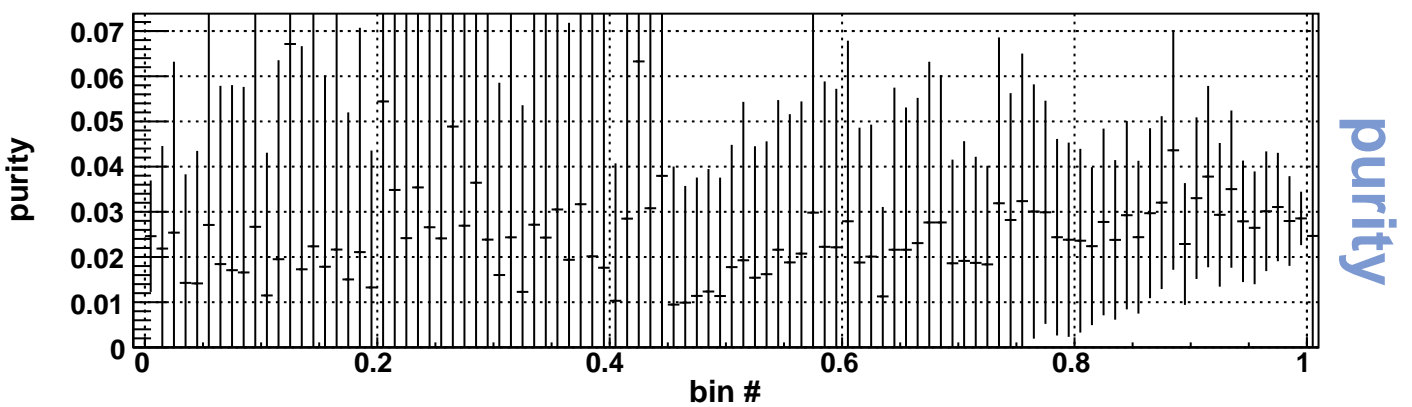
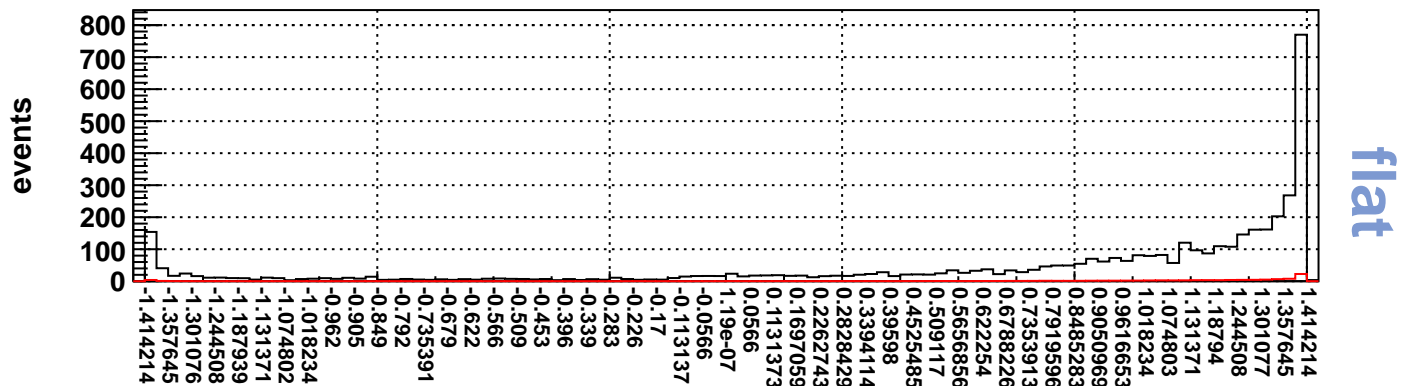
added signi. 0.63

signi. loss 0.63

PrePro: 23 #5

only this 1.12

corr. to others 31.70%



## Network at iteration 220

