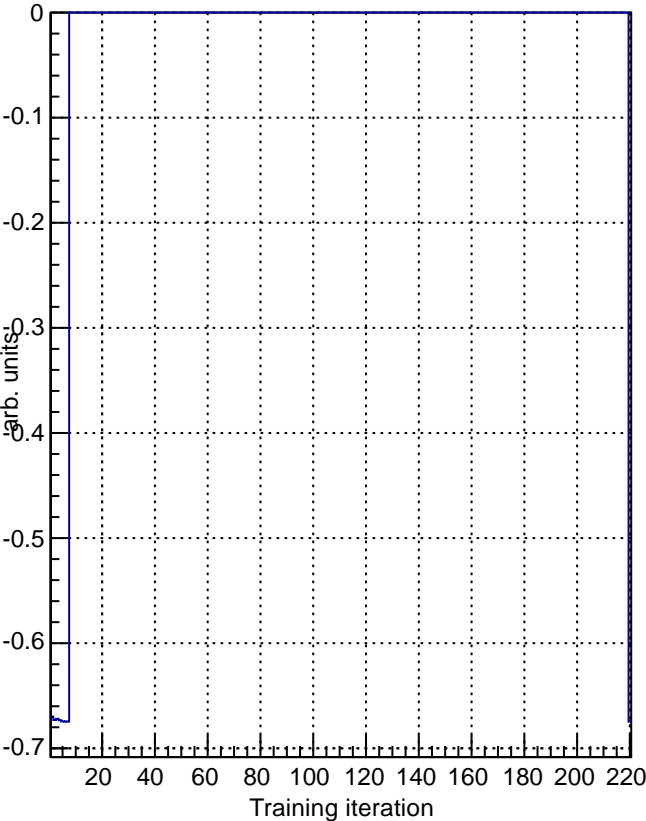
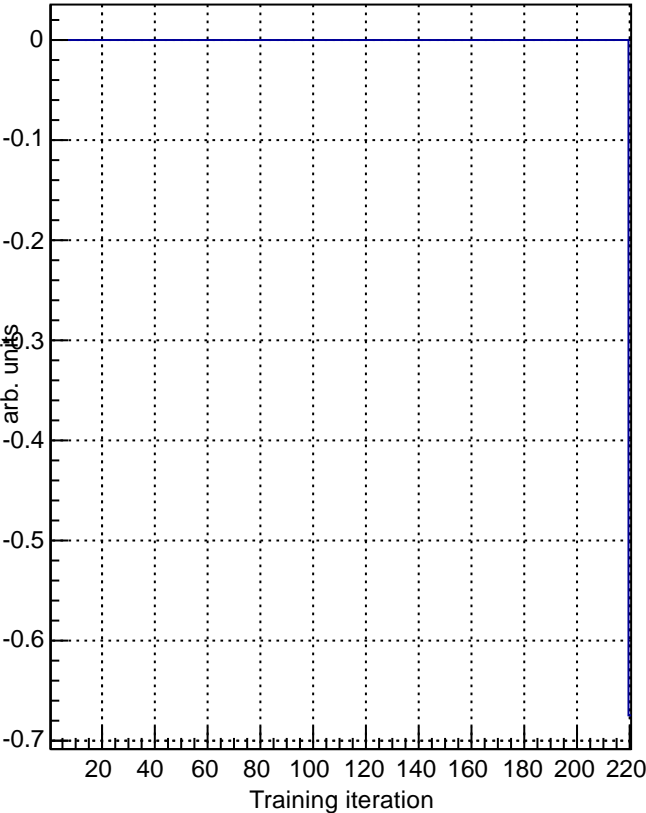


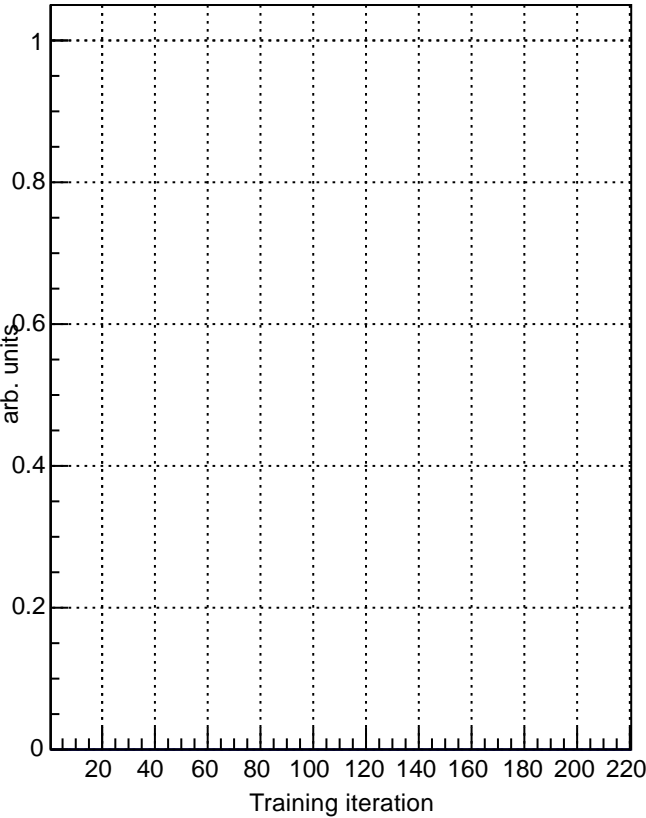
Error



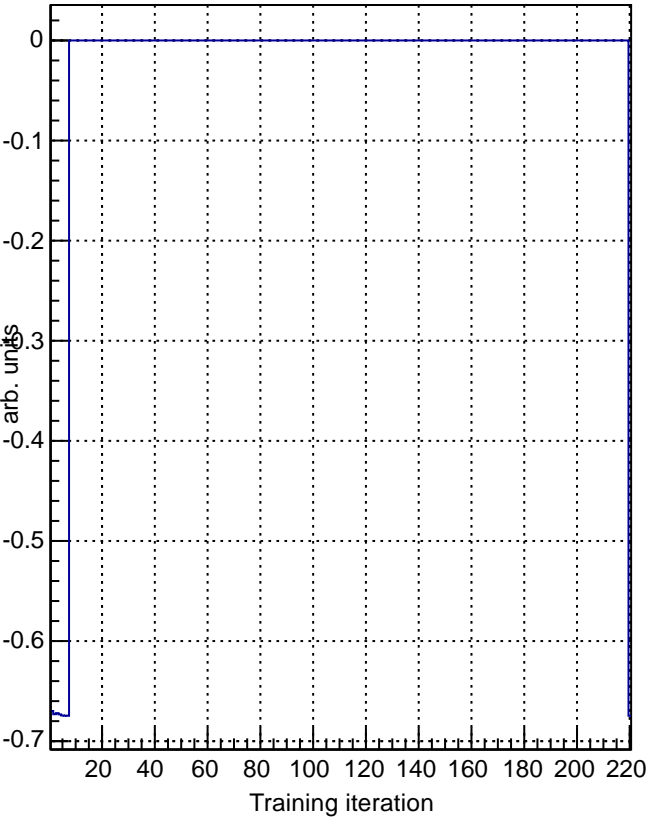
Error Testsample



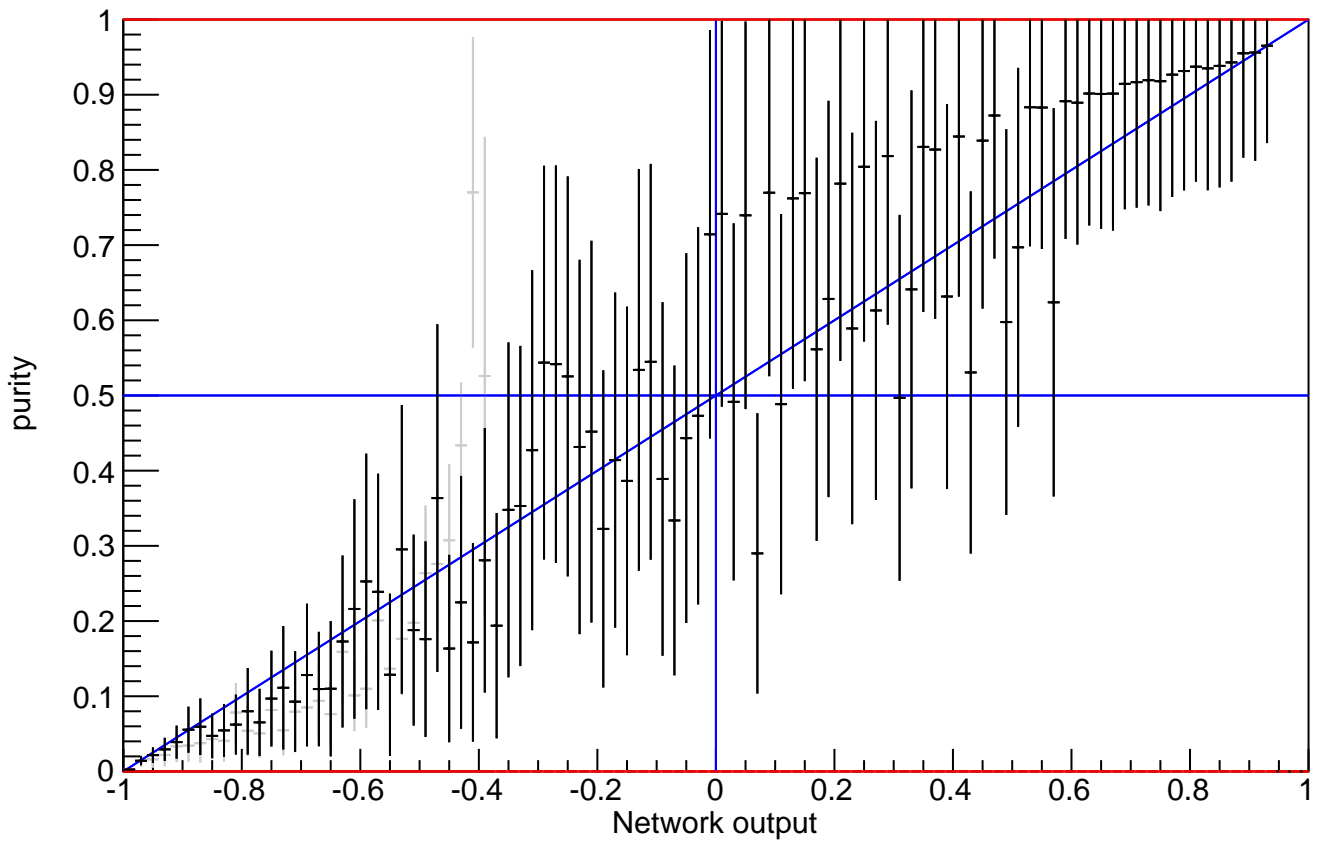
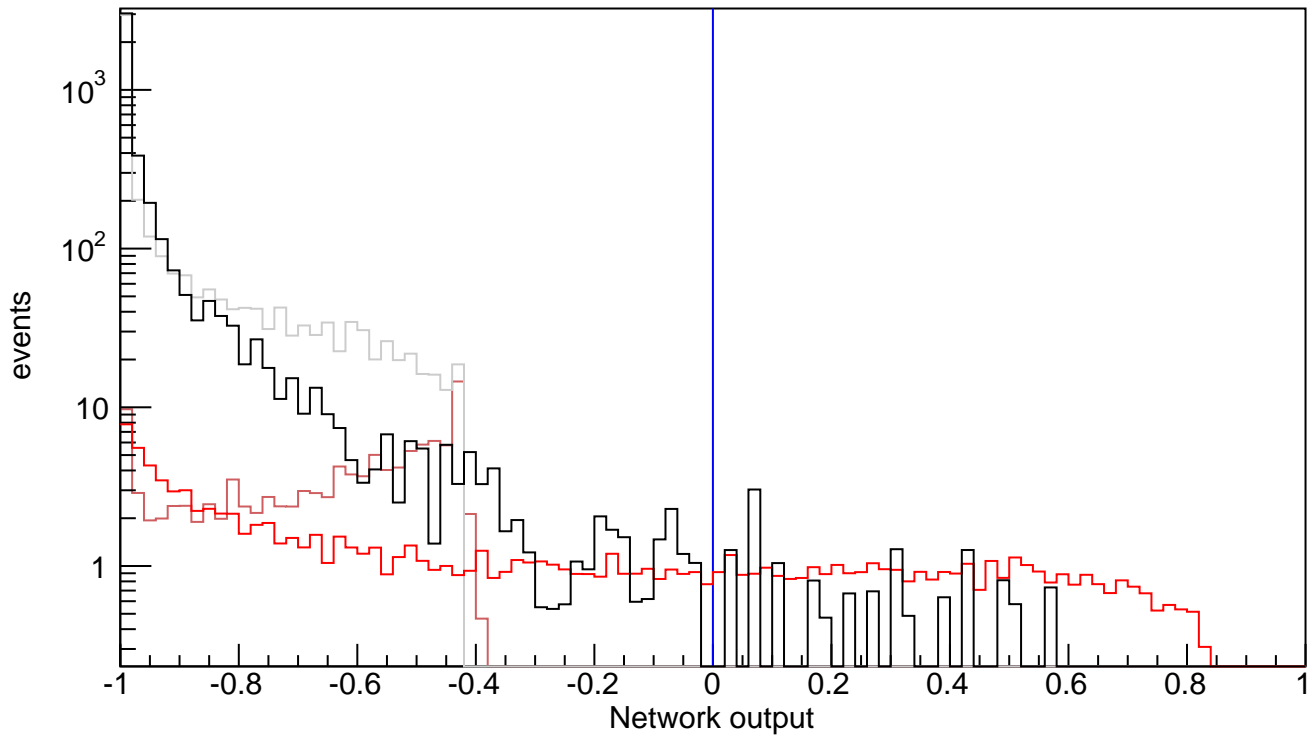
regularisation param. \* weights

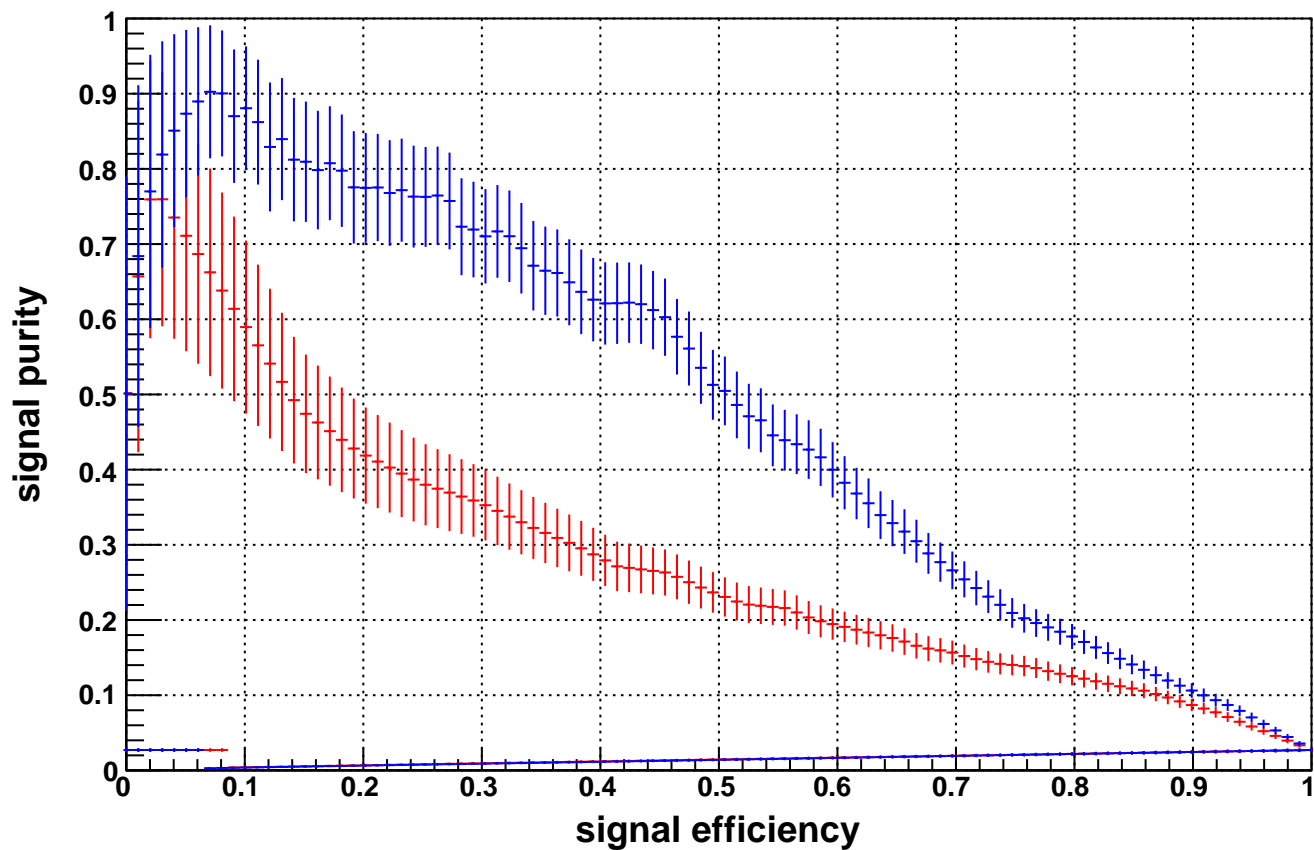


Err-Weight Learnsample

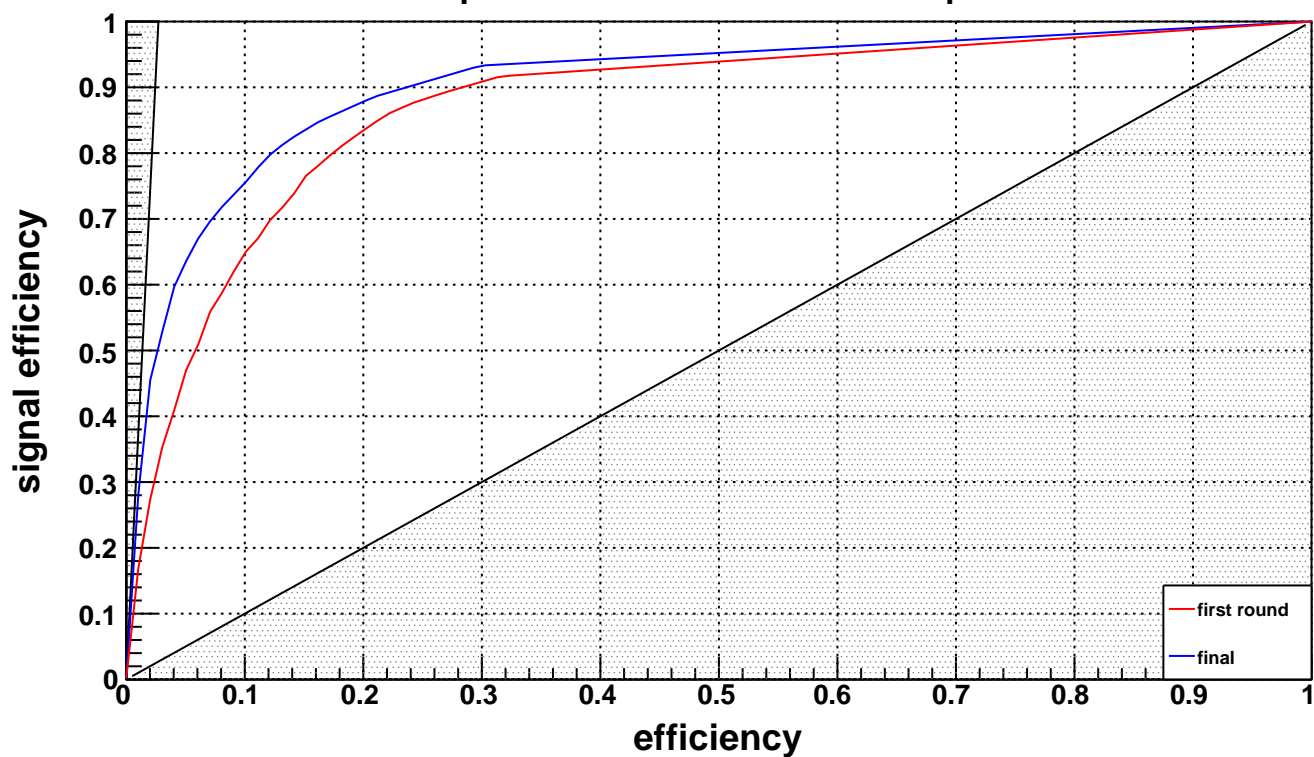


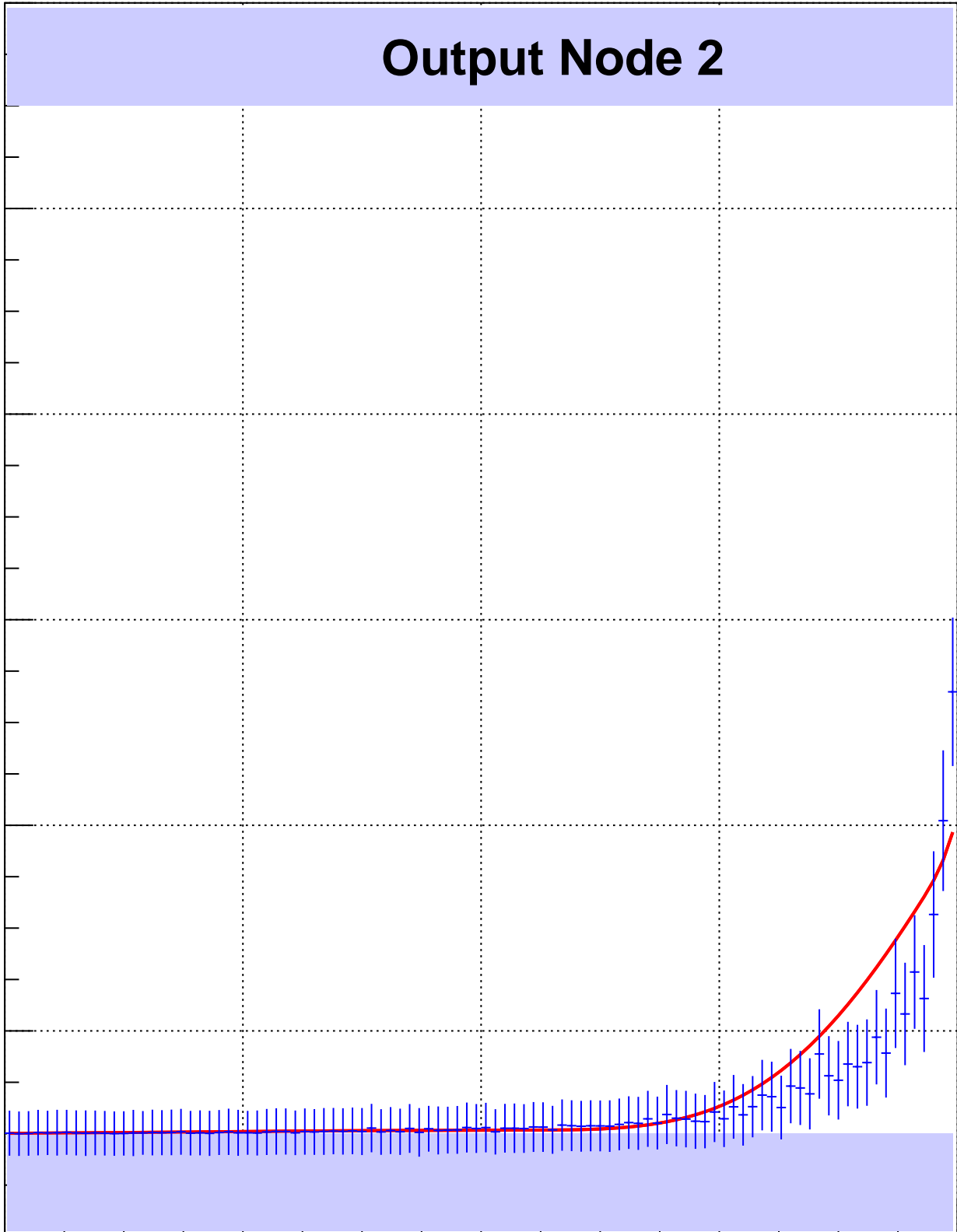
**Output Node 1 (n = 4341.3 s = 116.782 b = 4224.52  $p_{sig} = 0.0269$ )**



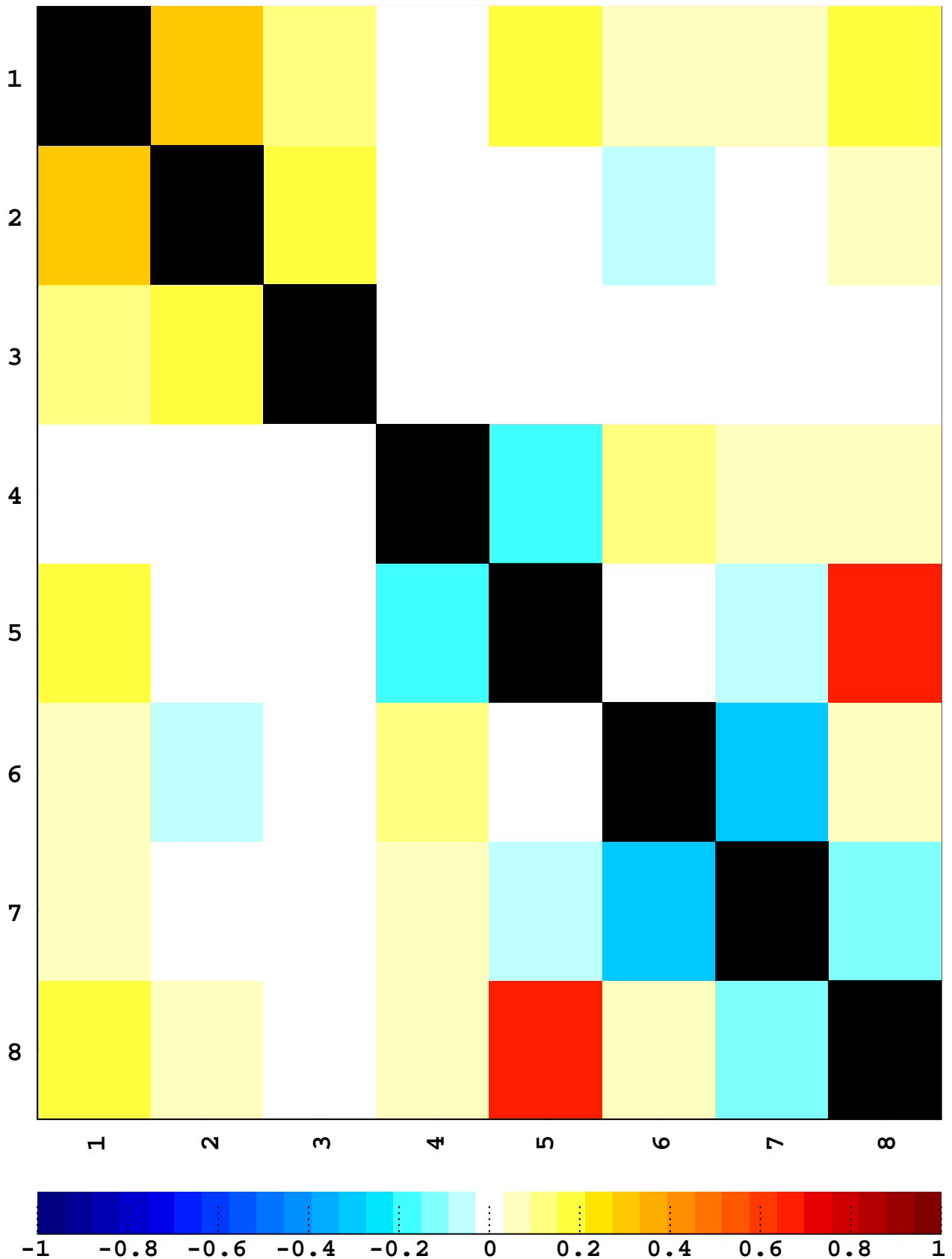


Gini index final/preboost = 82.4%/ 76.1% max possible = 97.3%

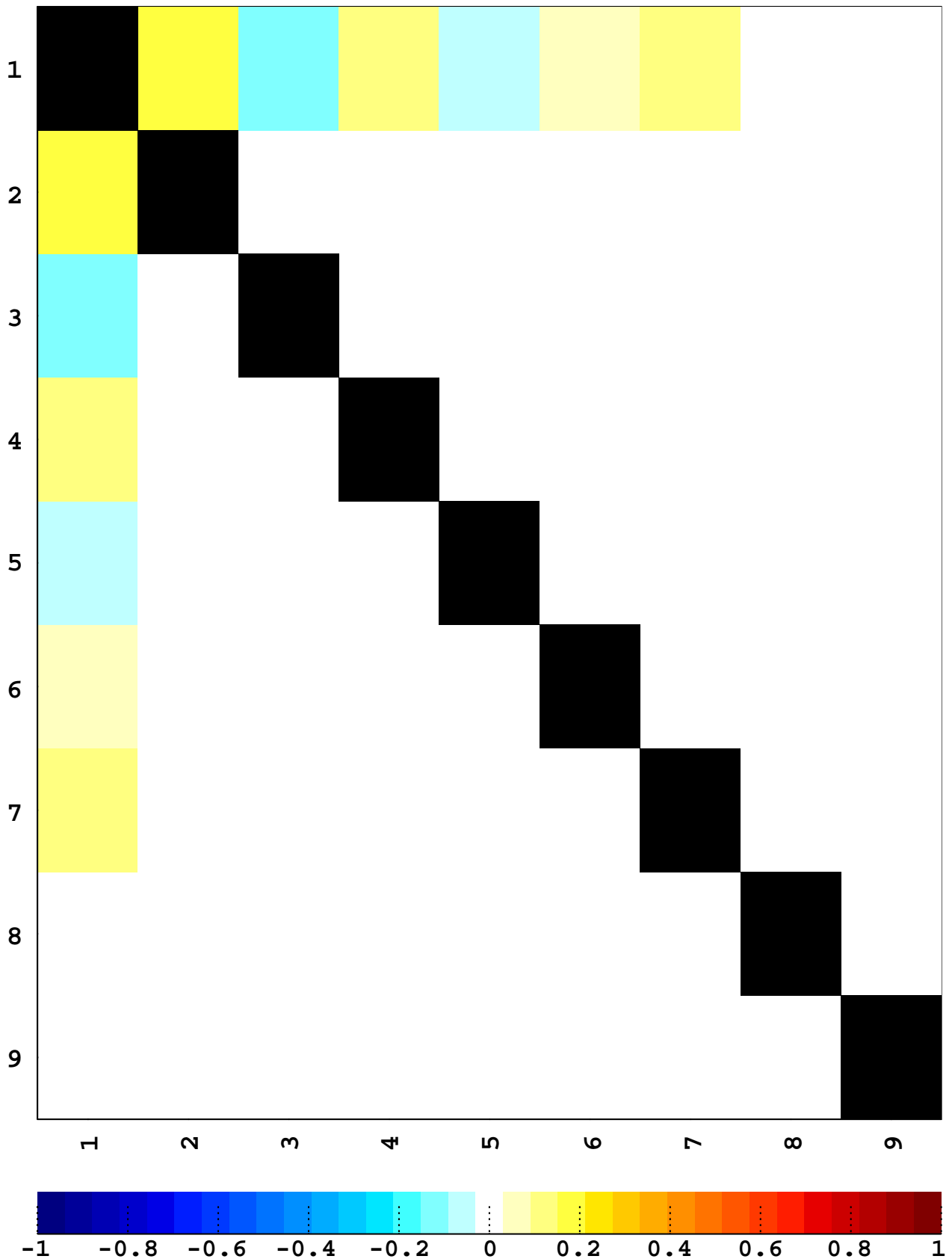


**Output Node 2**

## correlation matrix of input variables



## correlation matrix of input variables



Input node 2 : jdeta

1st most important

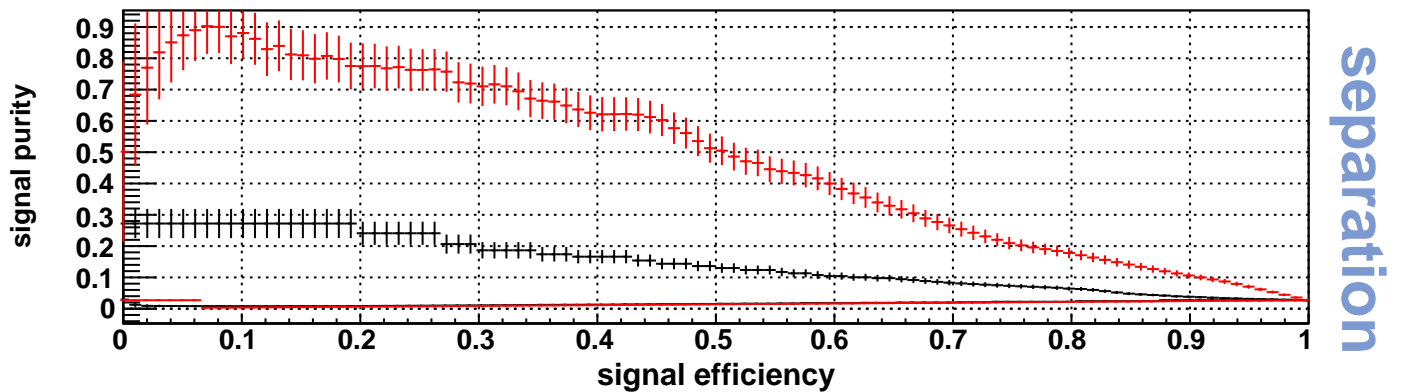
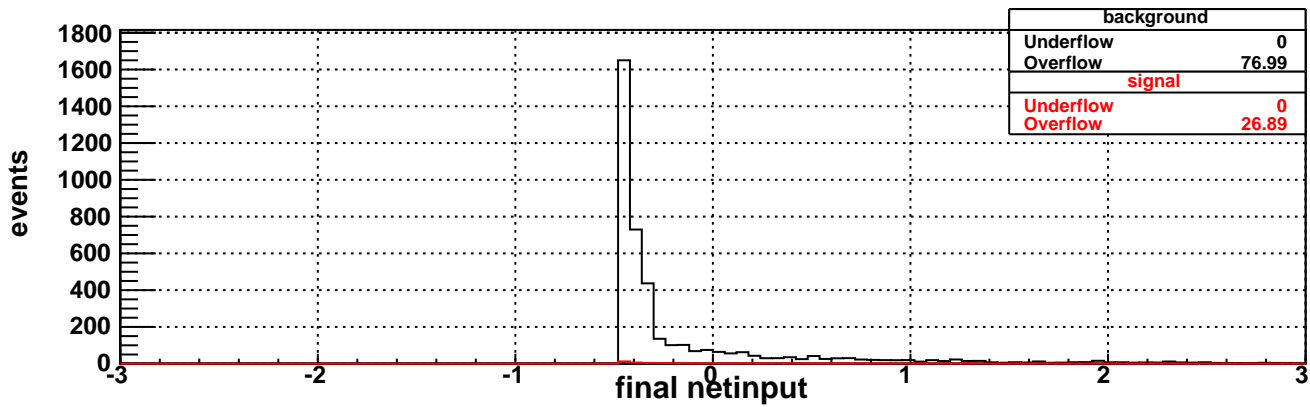
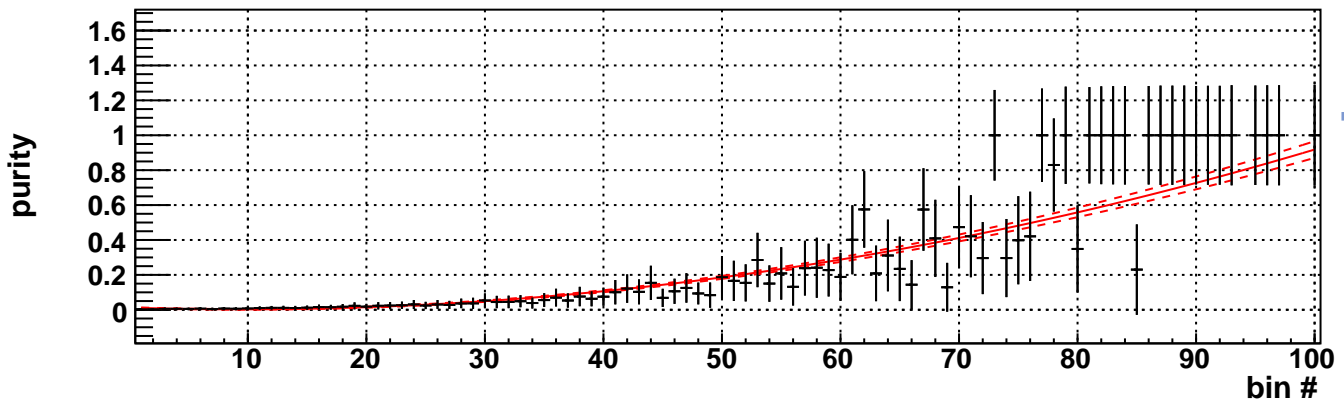
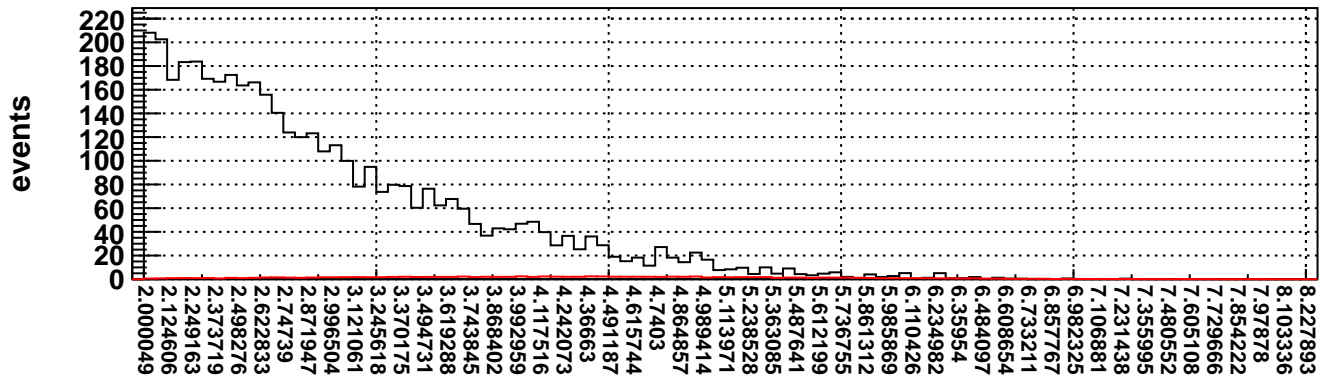
added signi. 18.92

signi. loss 17.76

PrePro: 24 #2

only this 18.92

corr. to others 20.40%



Input node 8 : svfit\_mass

2nd most important

added signi. 9.66

signi. loss 4.54

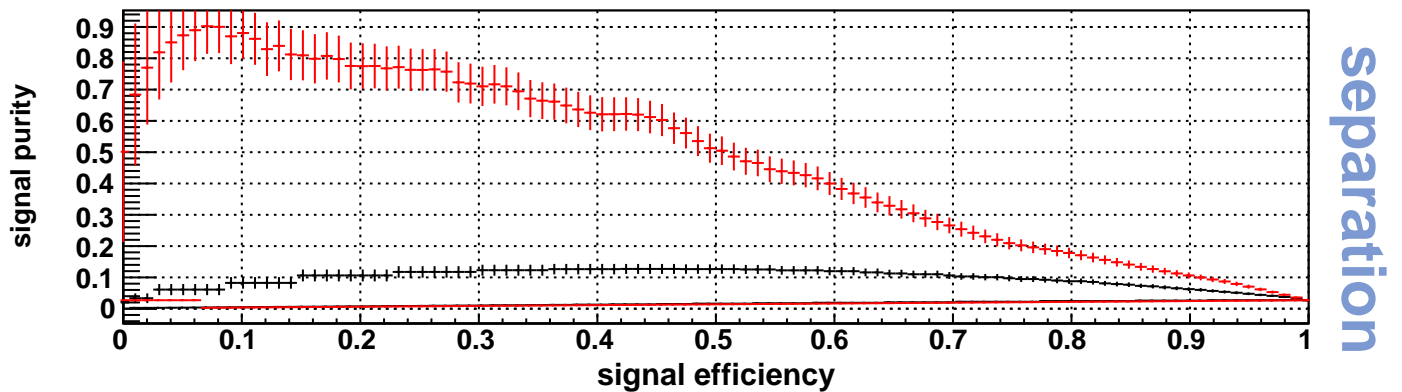
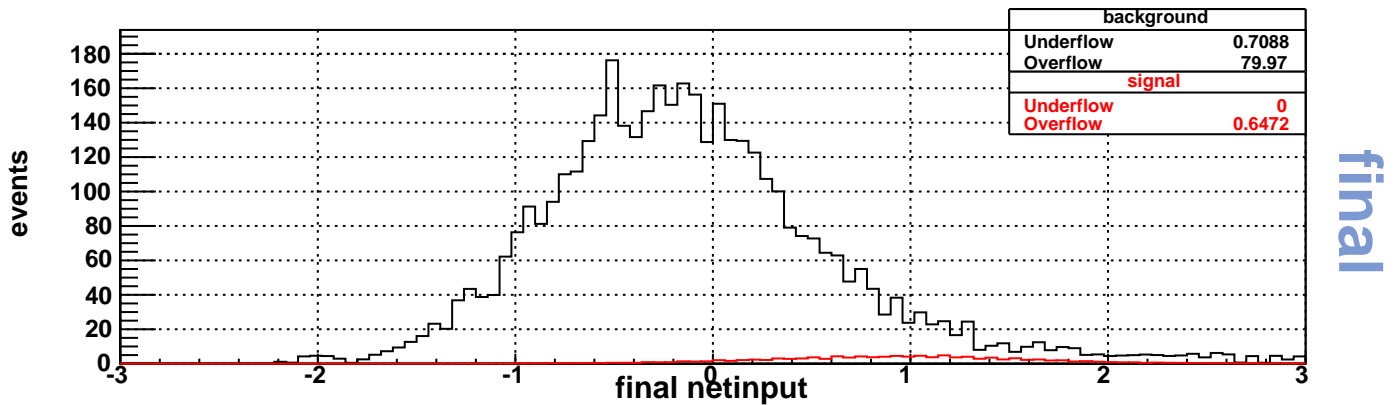
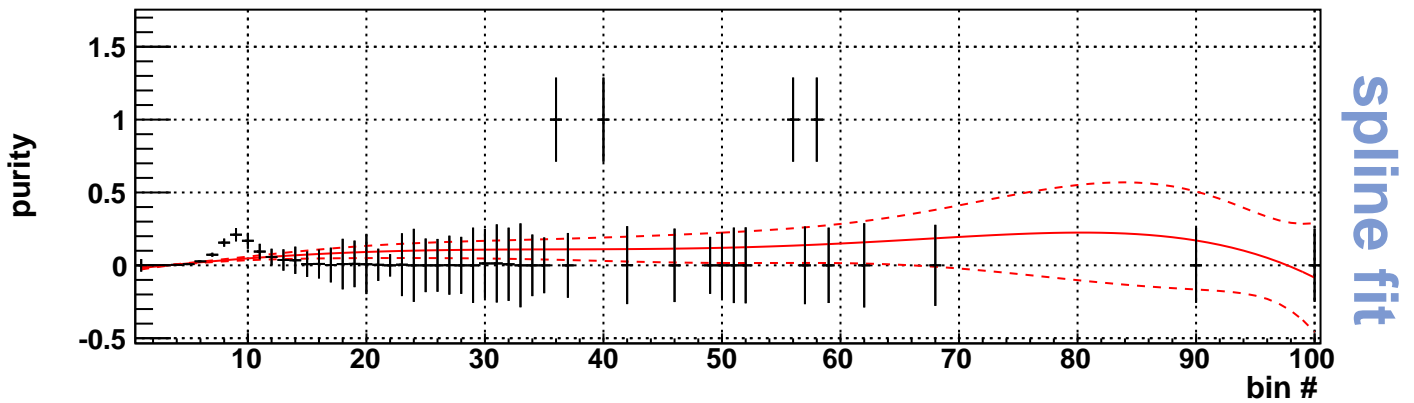
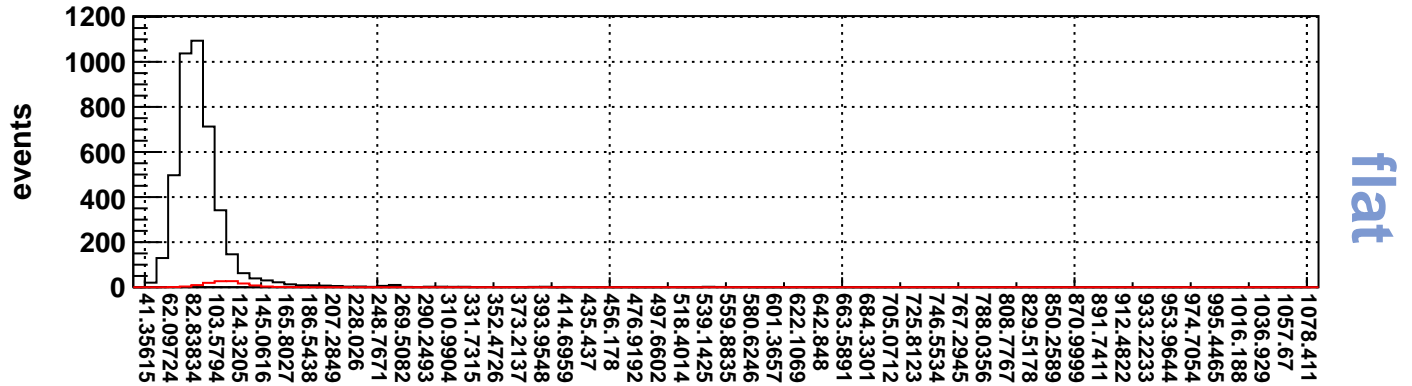
PrePro: 24 #8

only this 10.28

corr. to others 67.40%

Phi-T

NeuroBayes® Teacher





Input node 7 : pt\_tot

3rd most important

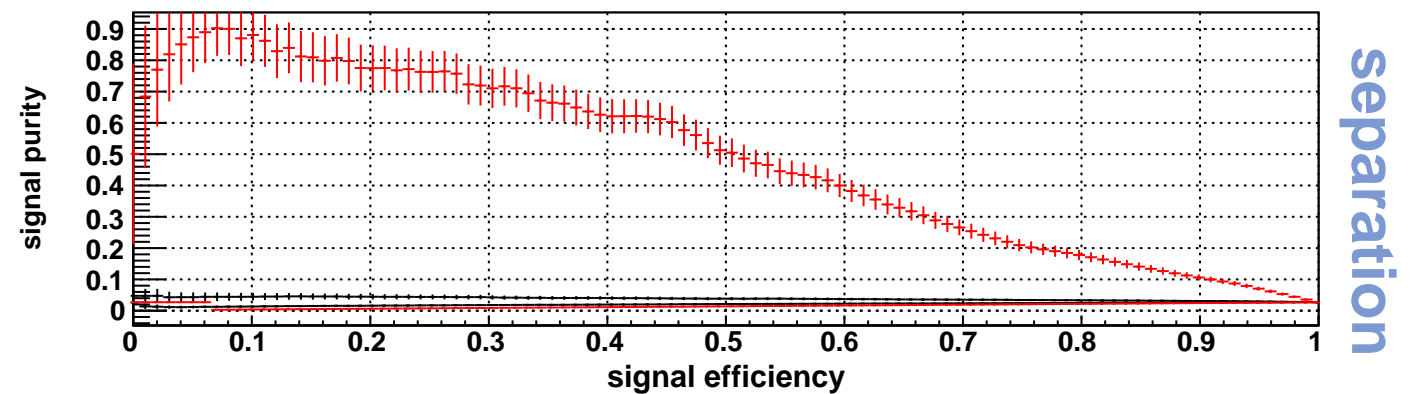
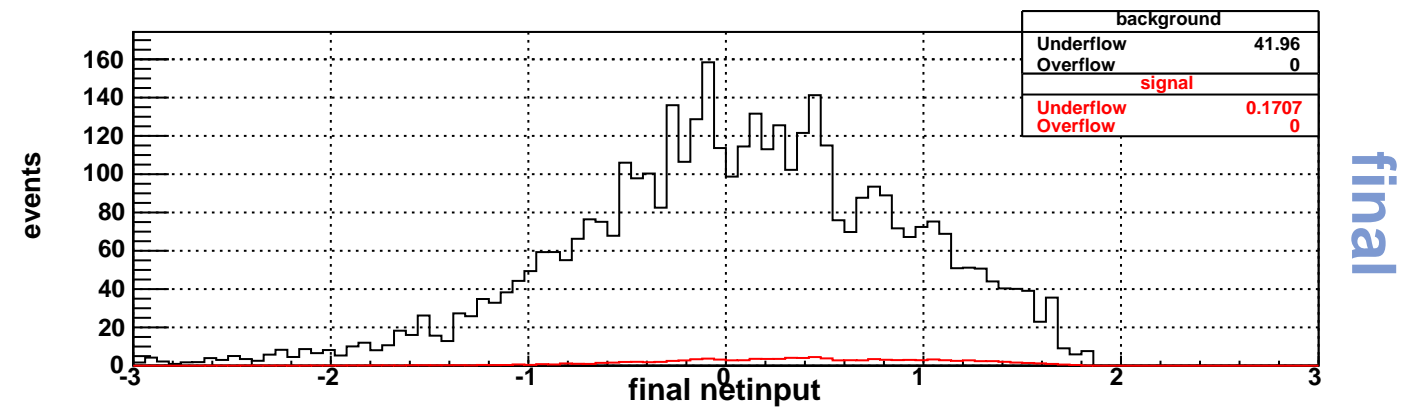
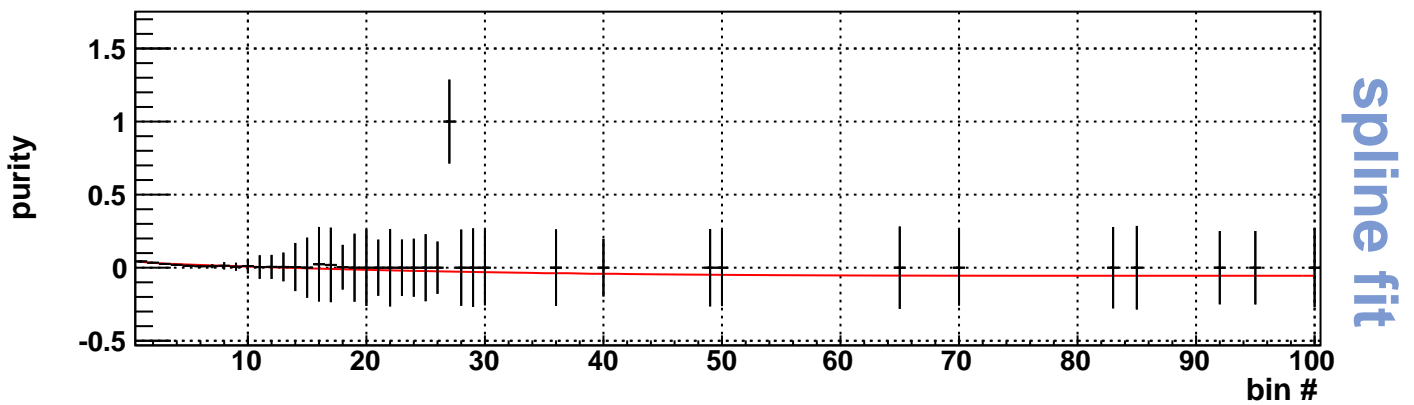
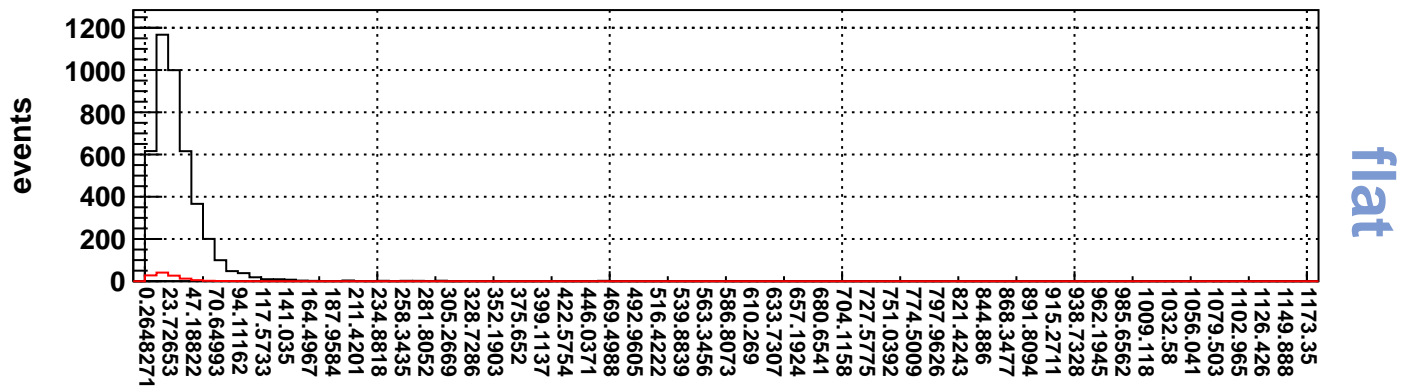
added signi. 5.40

signi. loss 6.59

PrePro: 25 #7

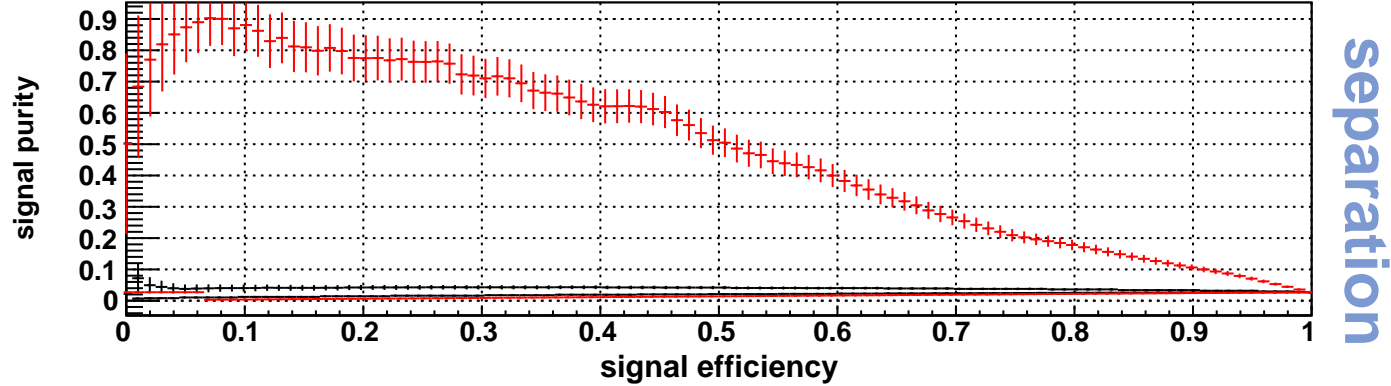
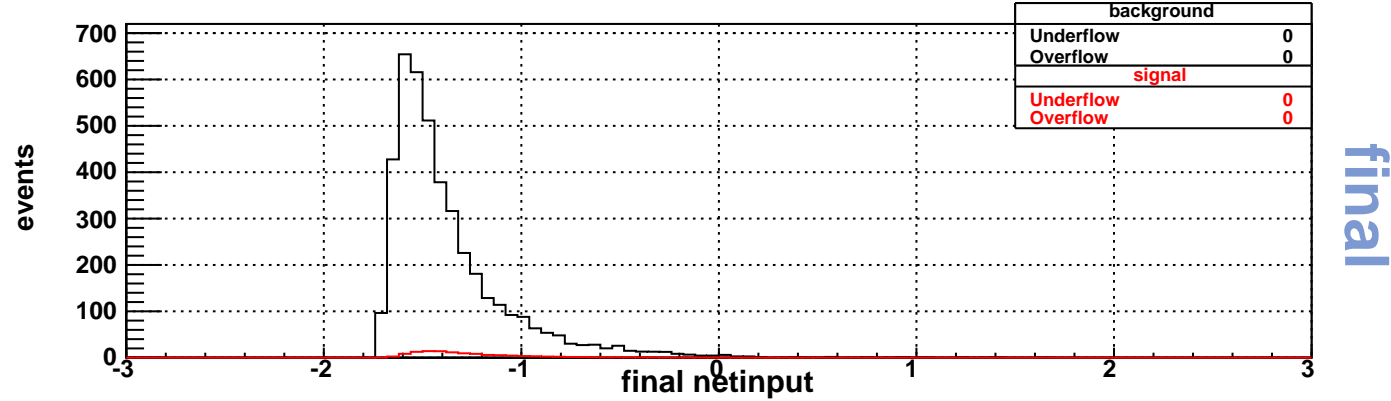
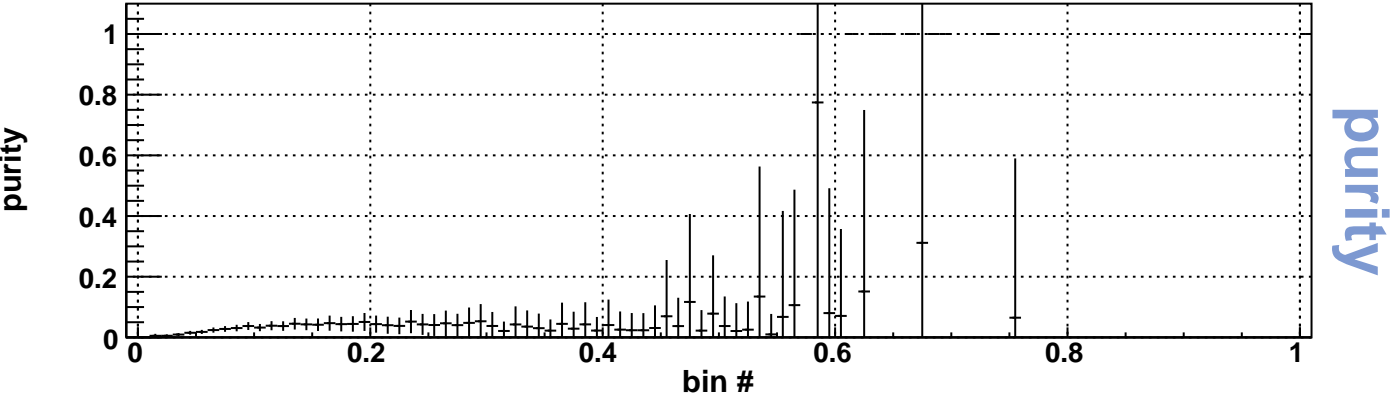
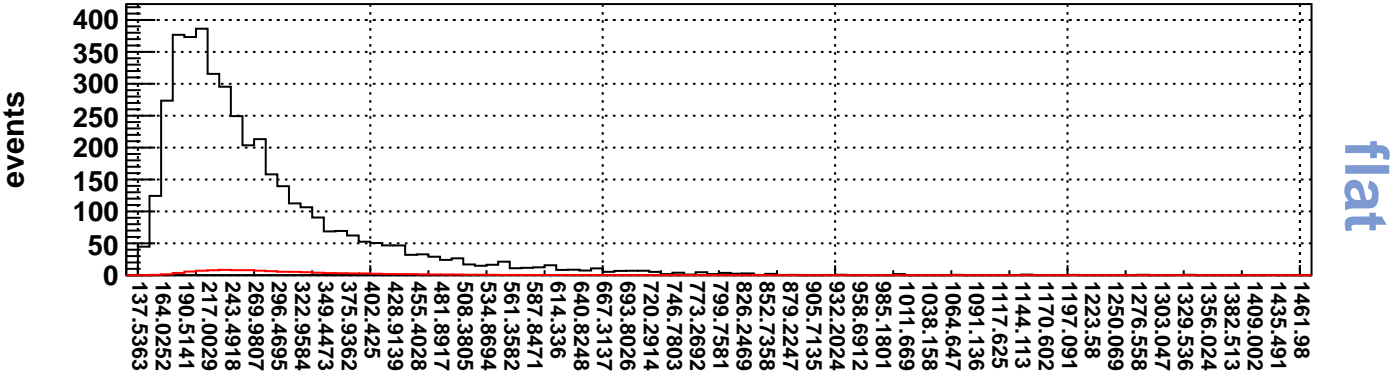
only this 3.84

corr. to others 35.70%



**Input node 6 : pt\_sum**  
4th most important  
added signi. 5.90  
signi. loss 6.08

PrePro: 23 #6  
only this 3.66  
corr. to others 35.30%



Input node 5 : mvis

5th most important

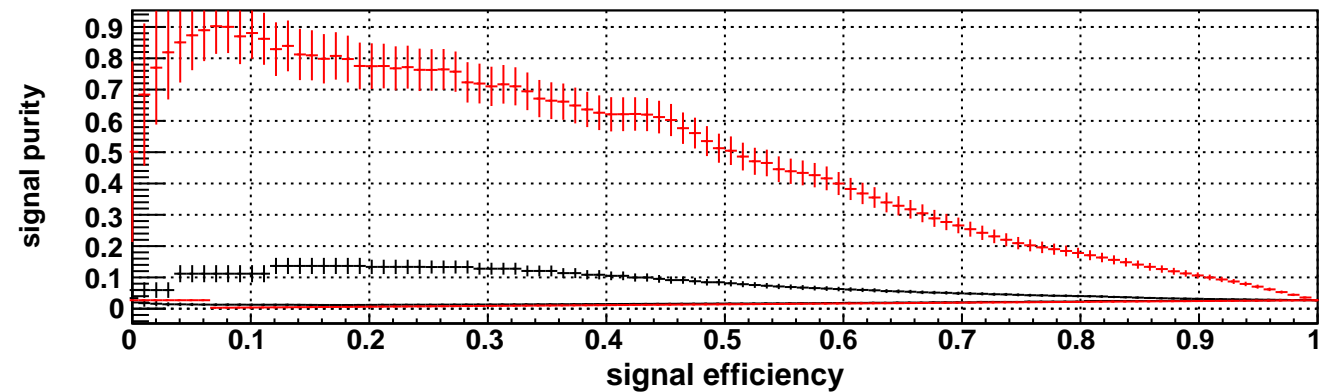
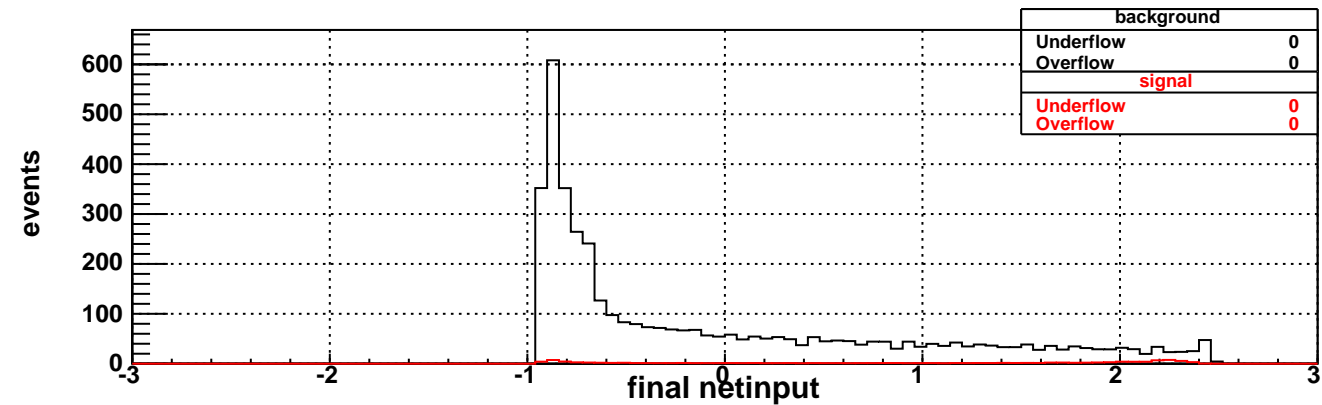
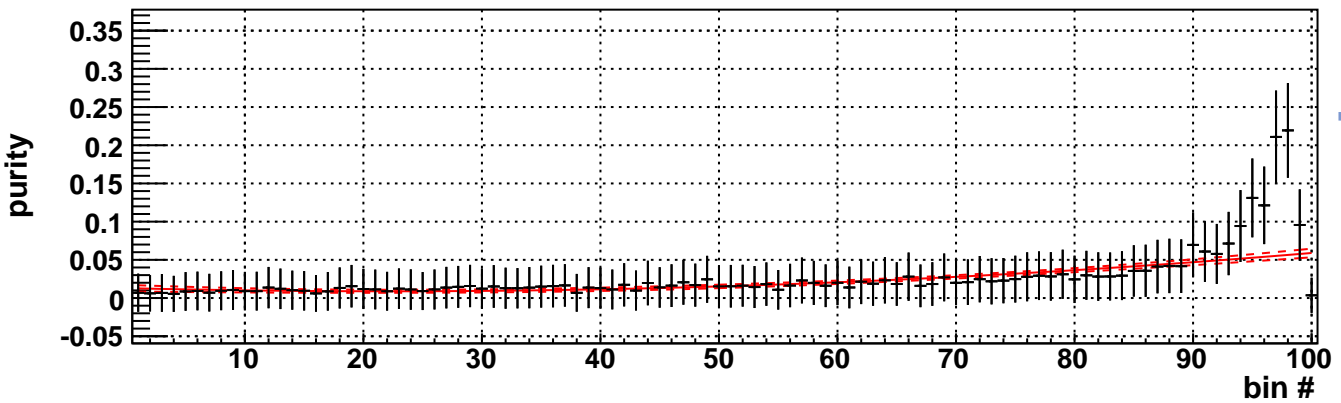
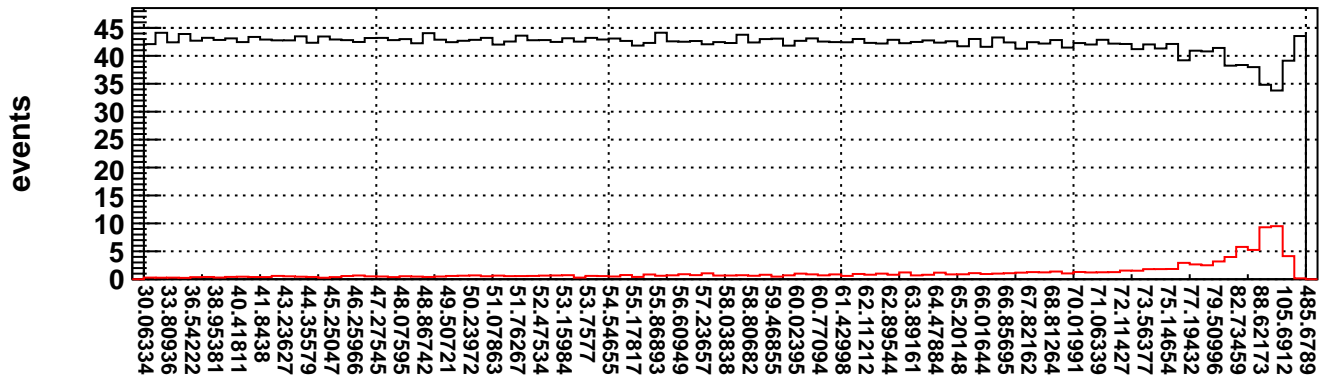
added signi. 4.67

signi. loss 4.59

PrePro: 14 #5

only this 10.08

corr. to others 67.90%



Input node 3 : lep\_etacentrality

6th most important

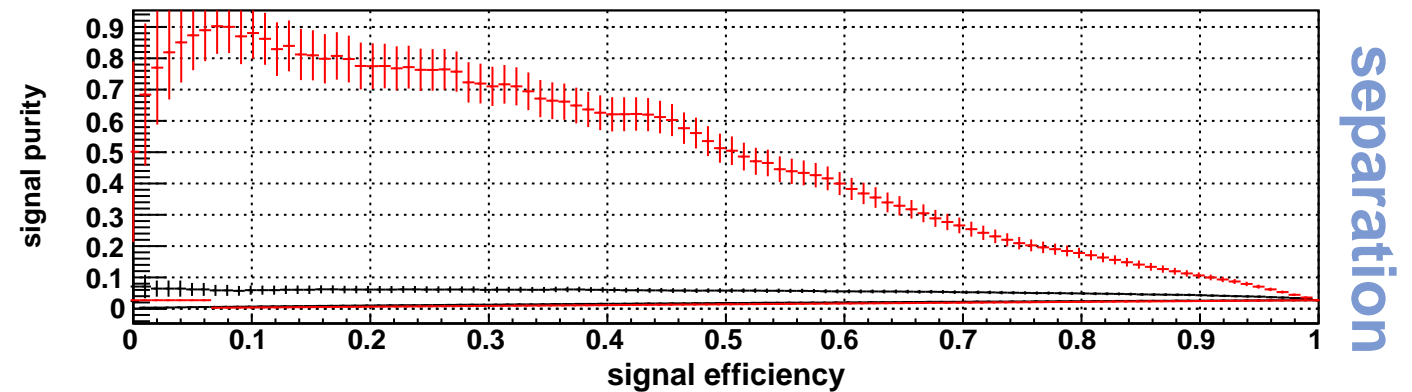
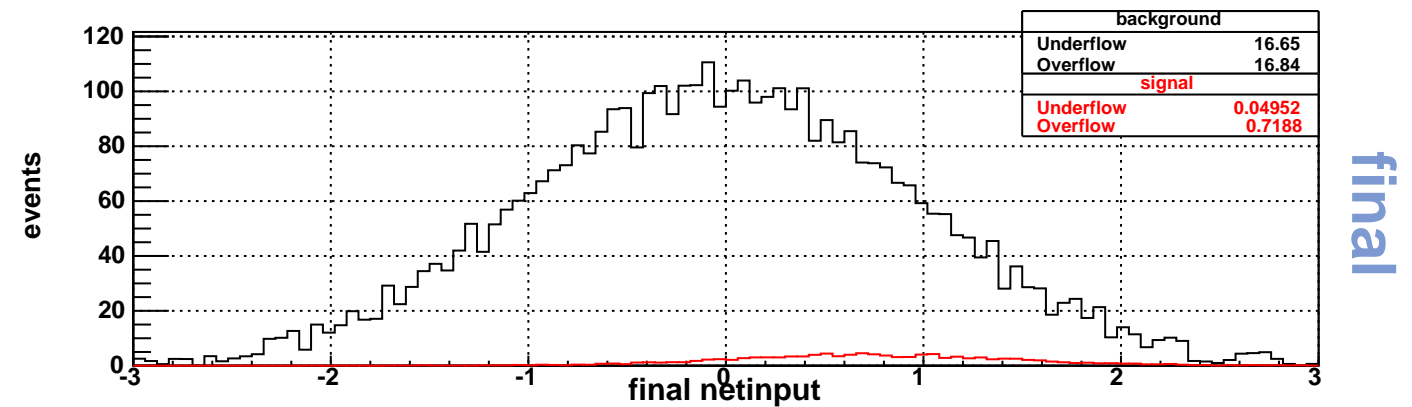
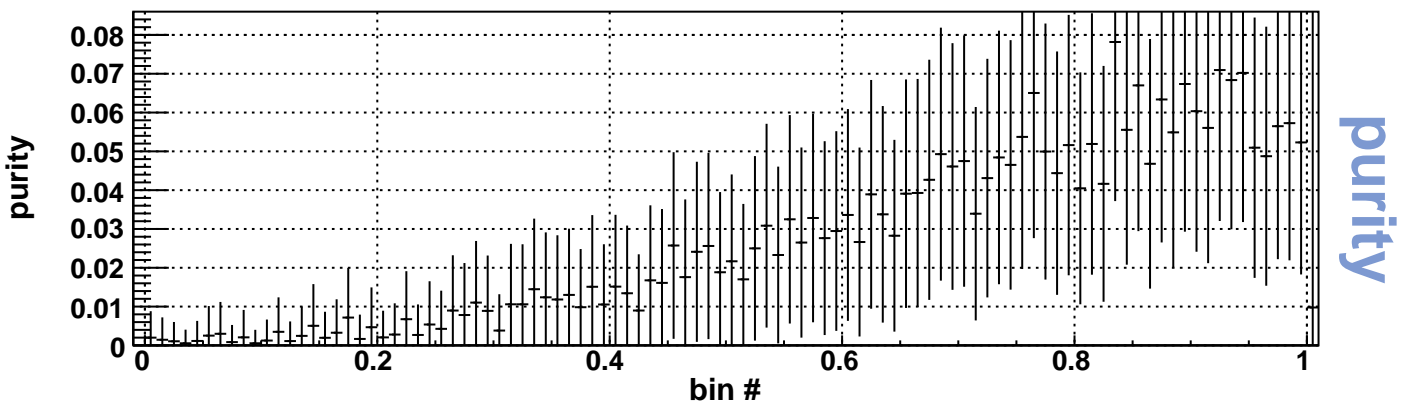
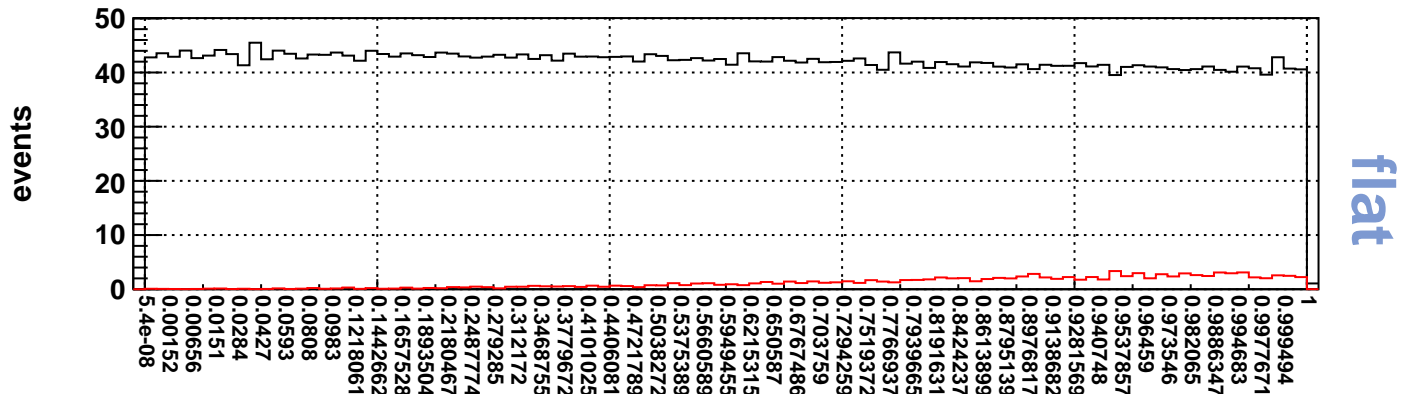
added signi. 4.09

signi. loss 4.08

PrePro: 12 #3

only this 8.00

corr. to others 19.40%



Input node 4 : met centrality

7th most important

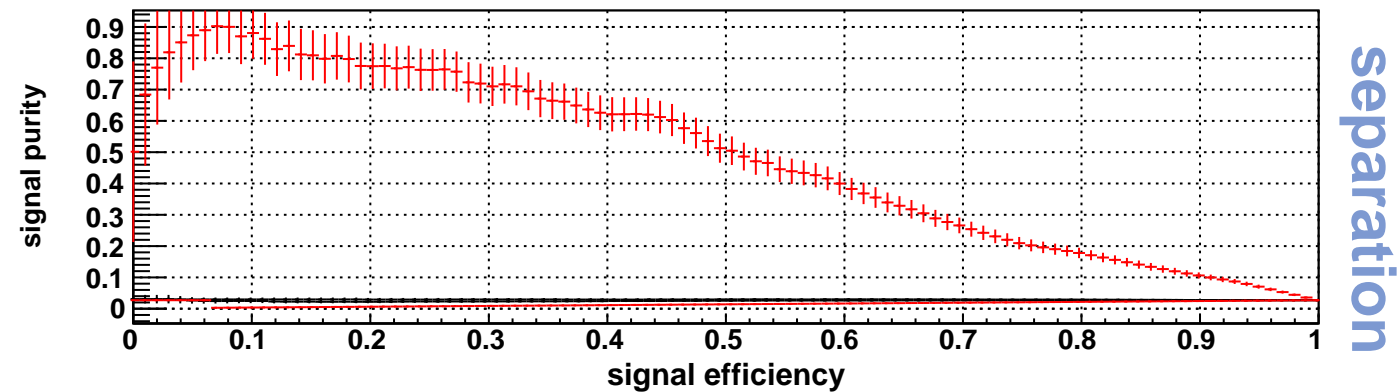
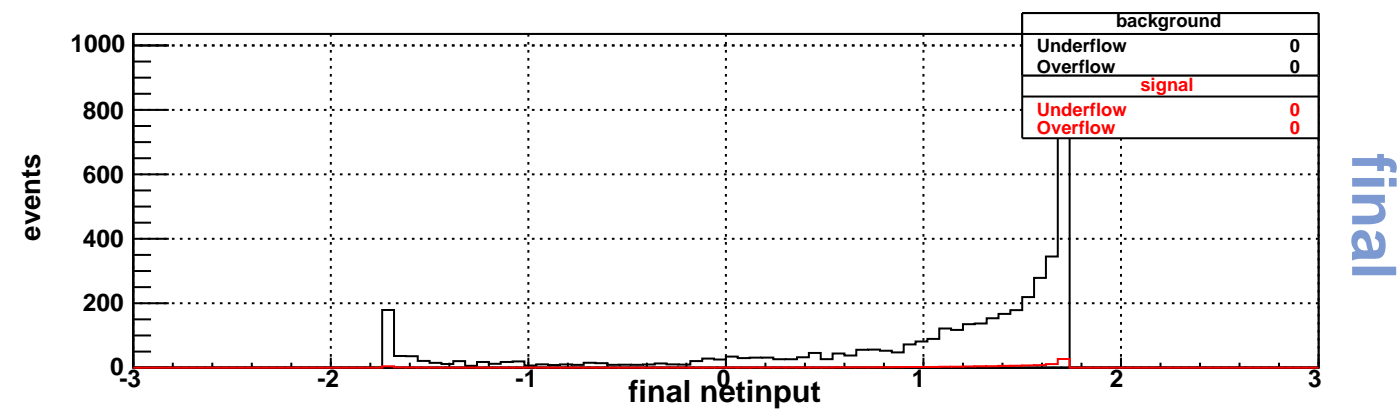
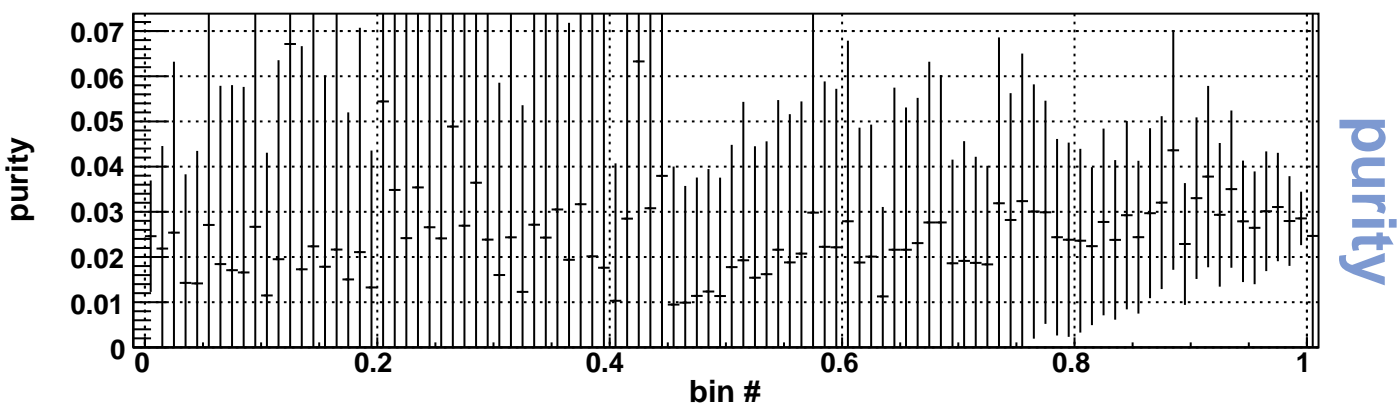
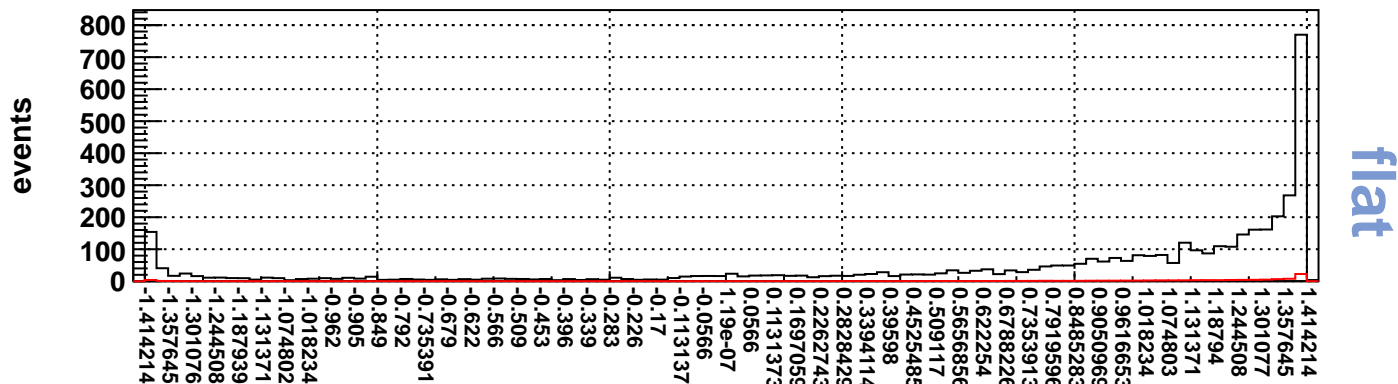
added signi. 0.63

signi. loss 0.63

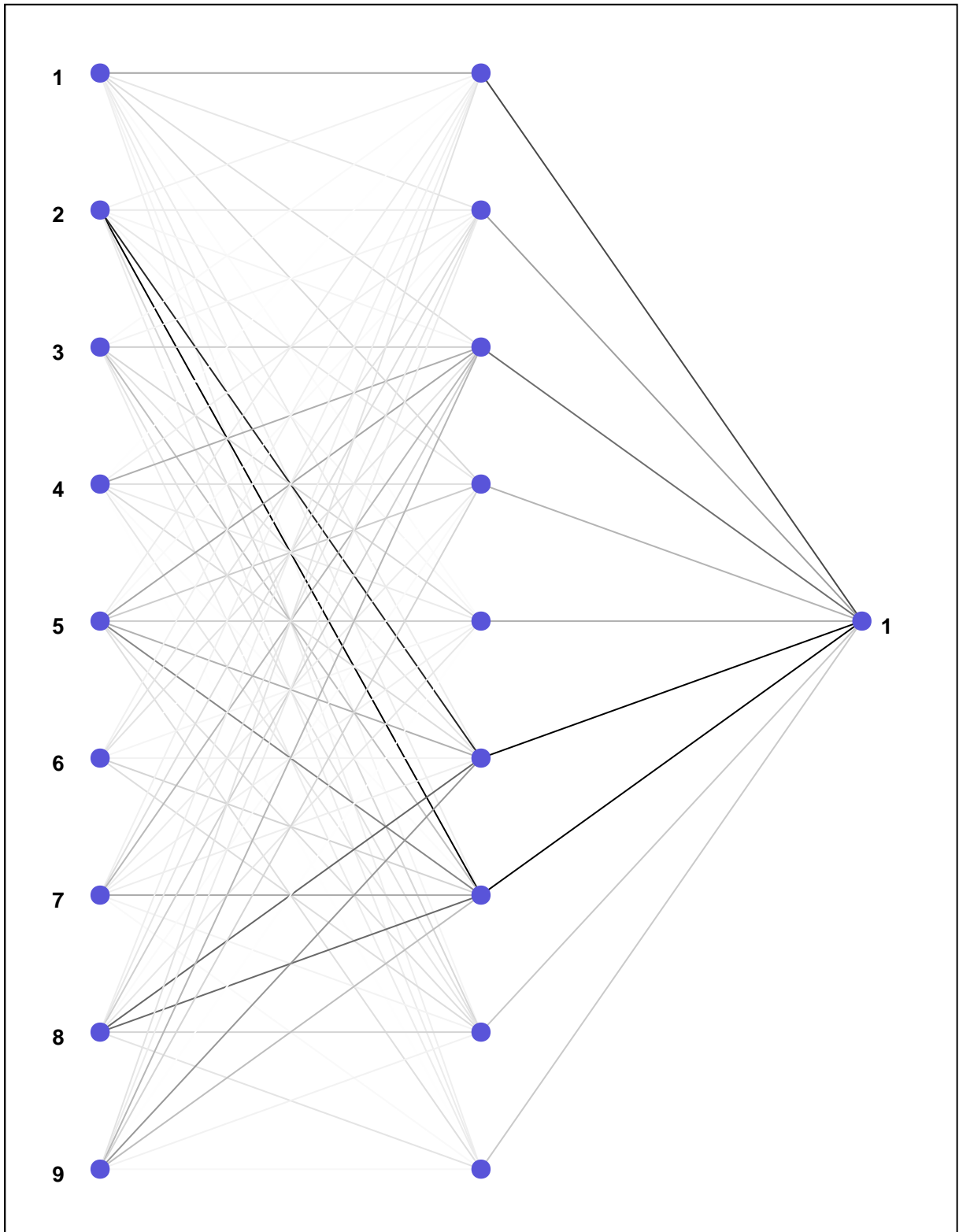
PrePro: 23 #4

only this 1.12

corr. to others 31.70%



## Network at iteration 220



input layer

hidden layer

output layer