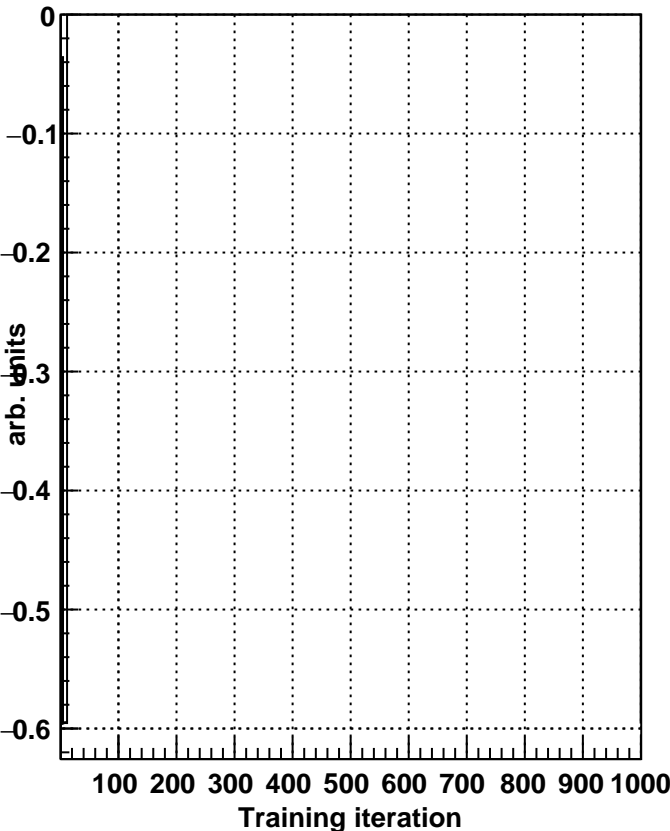
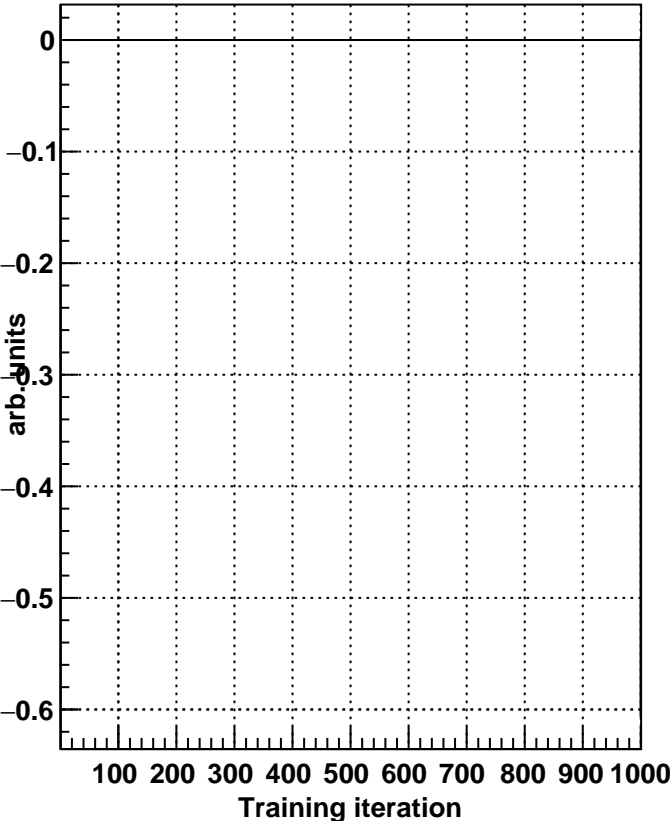


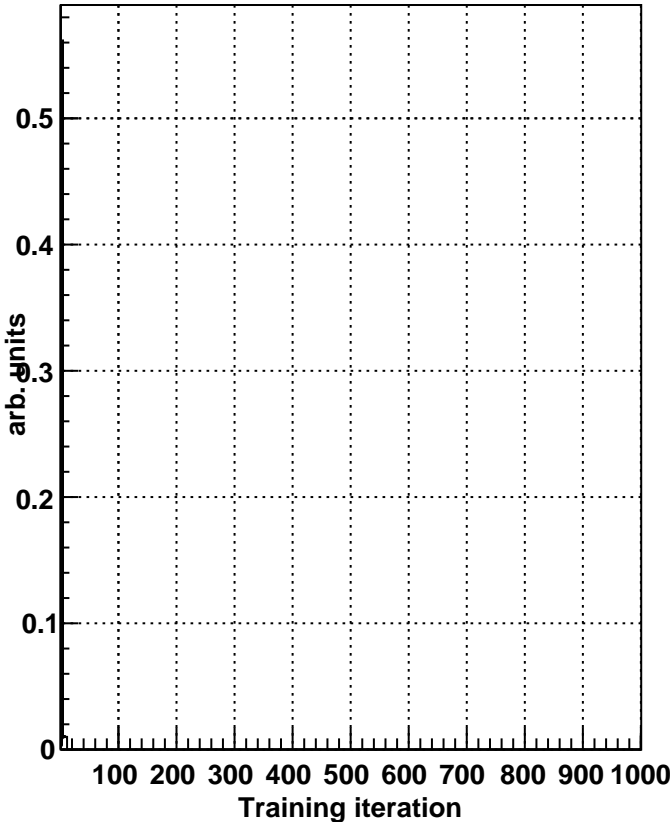
Error



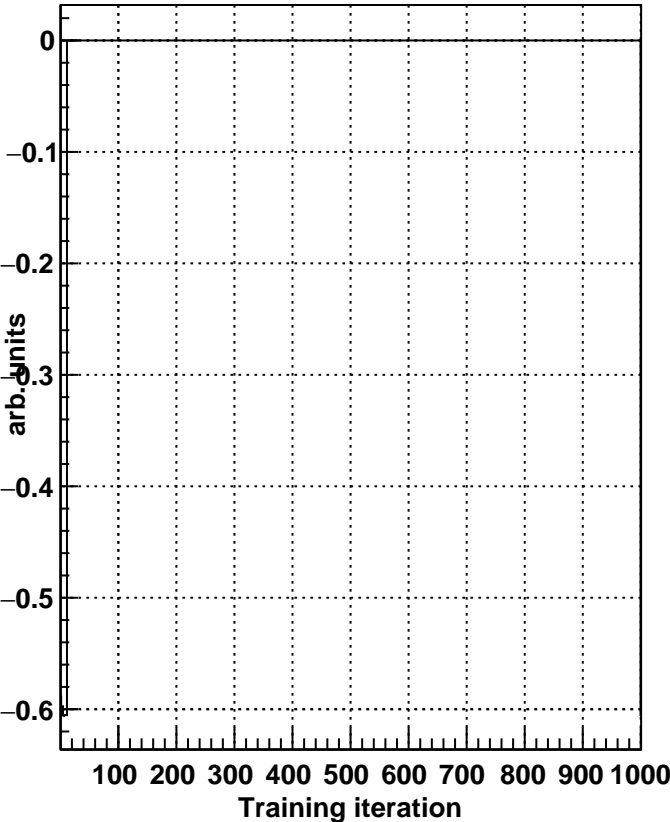
Error Testsample



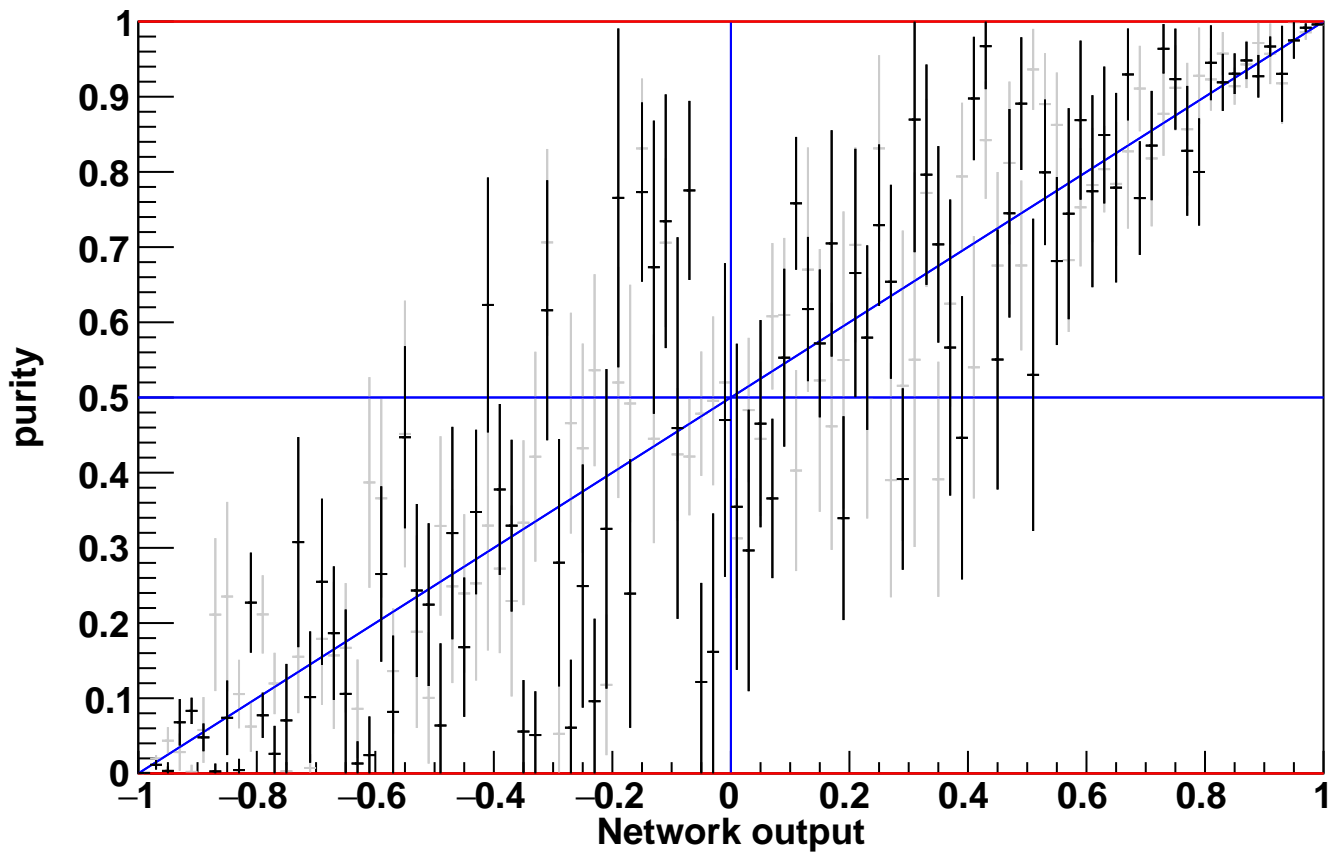
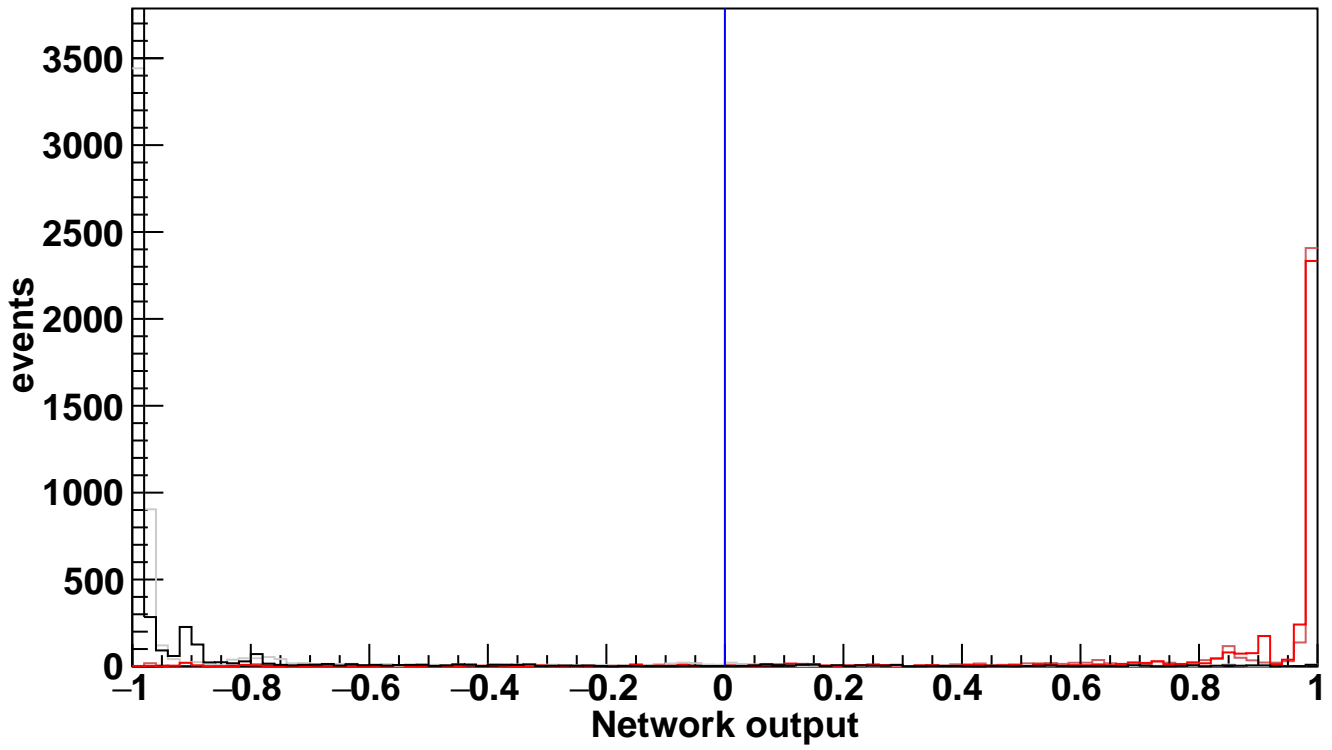
regularisation param. \* weights

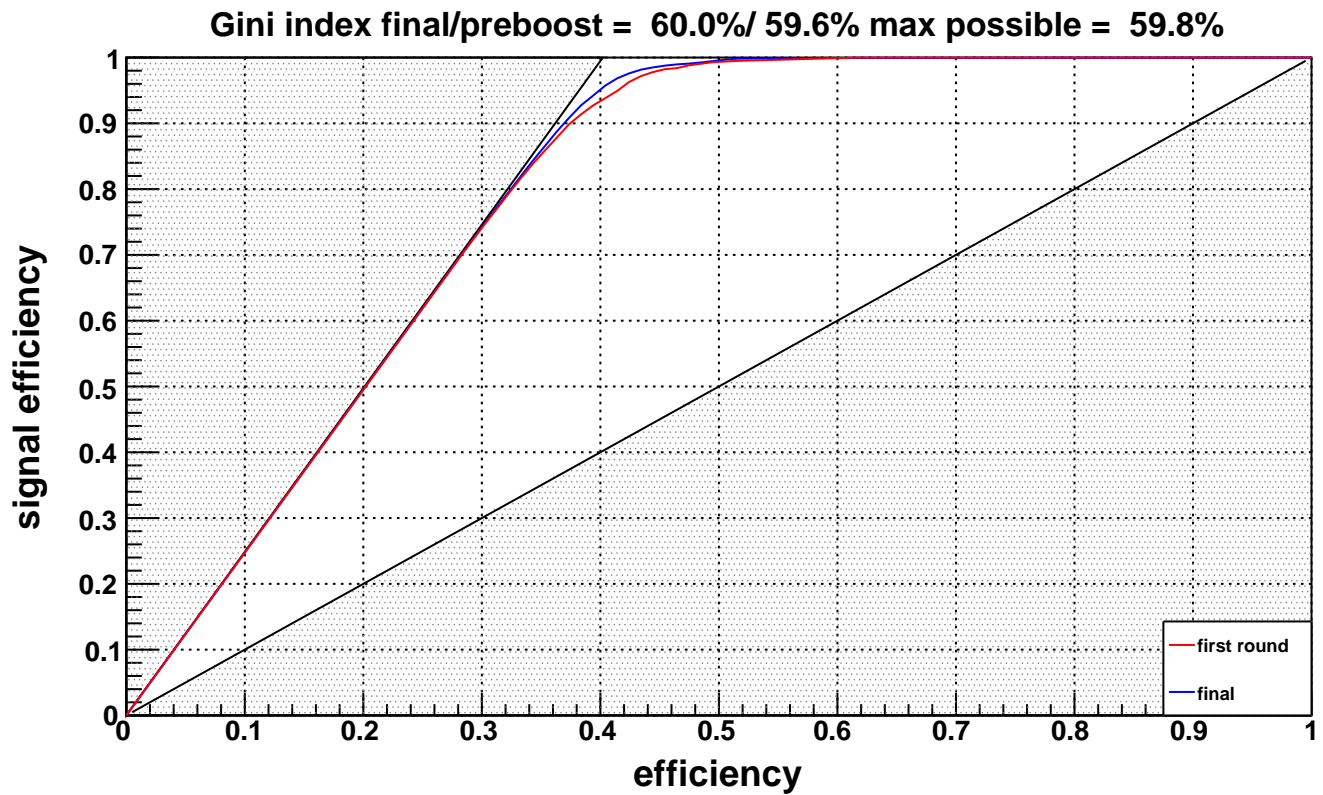
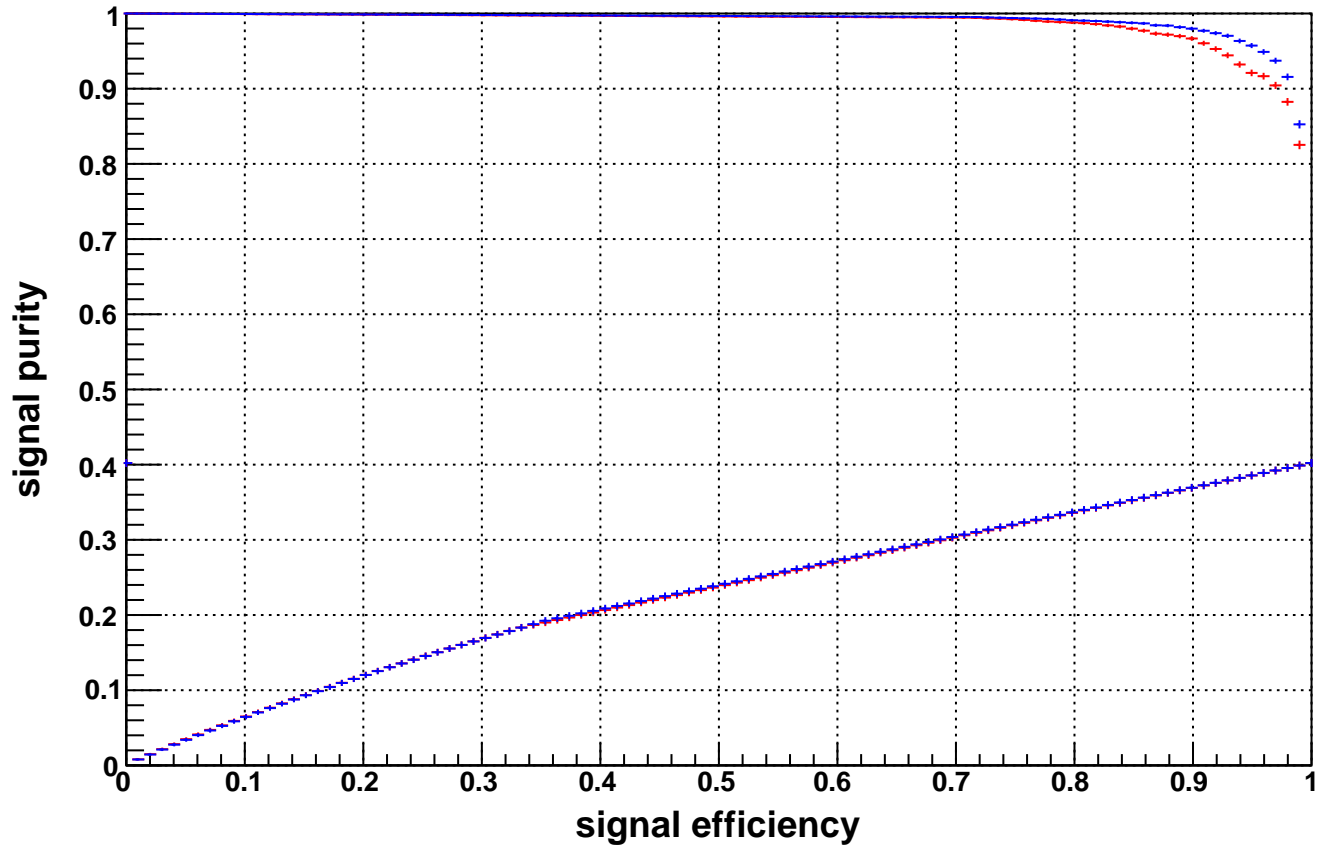


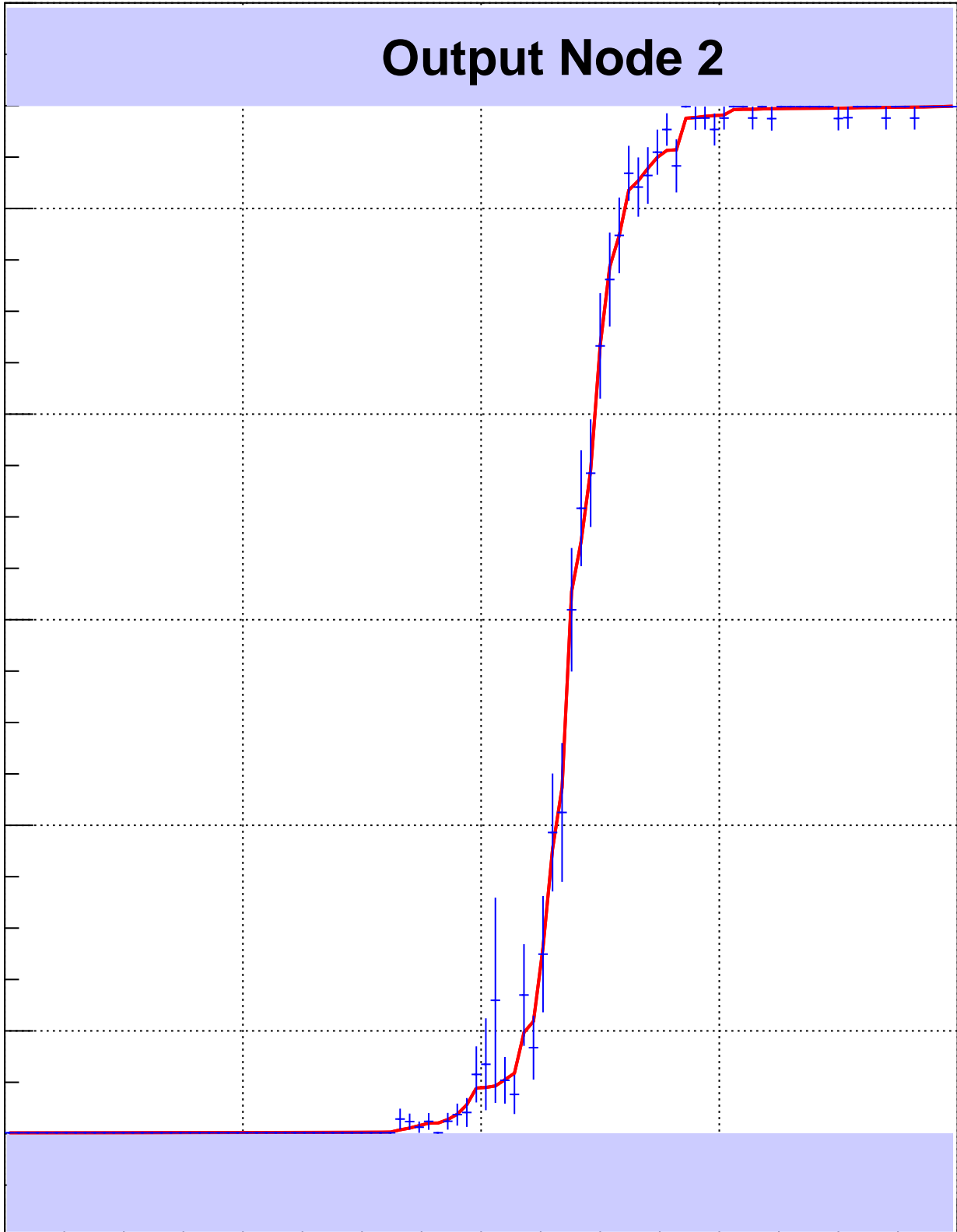
Err-Weight Learnsample

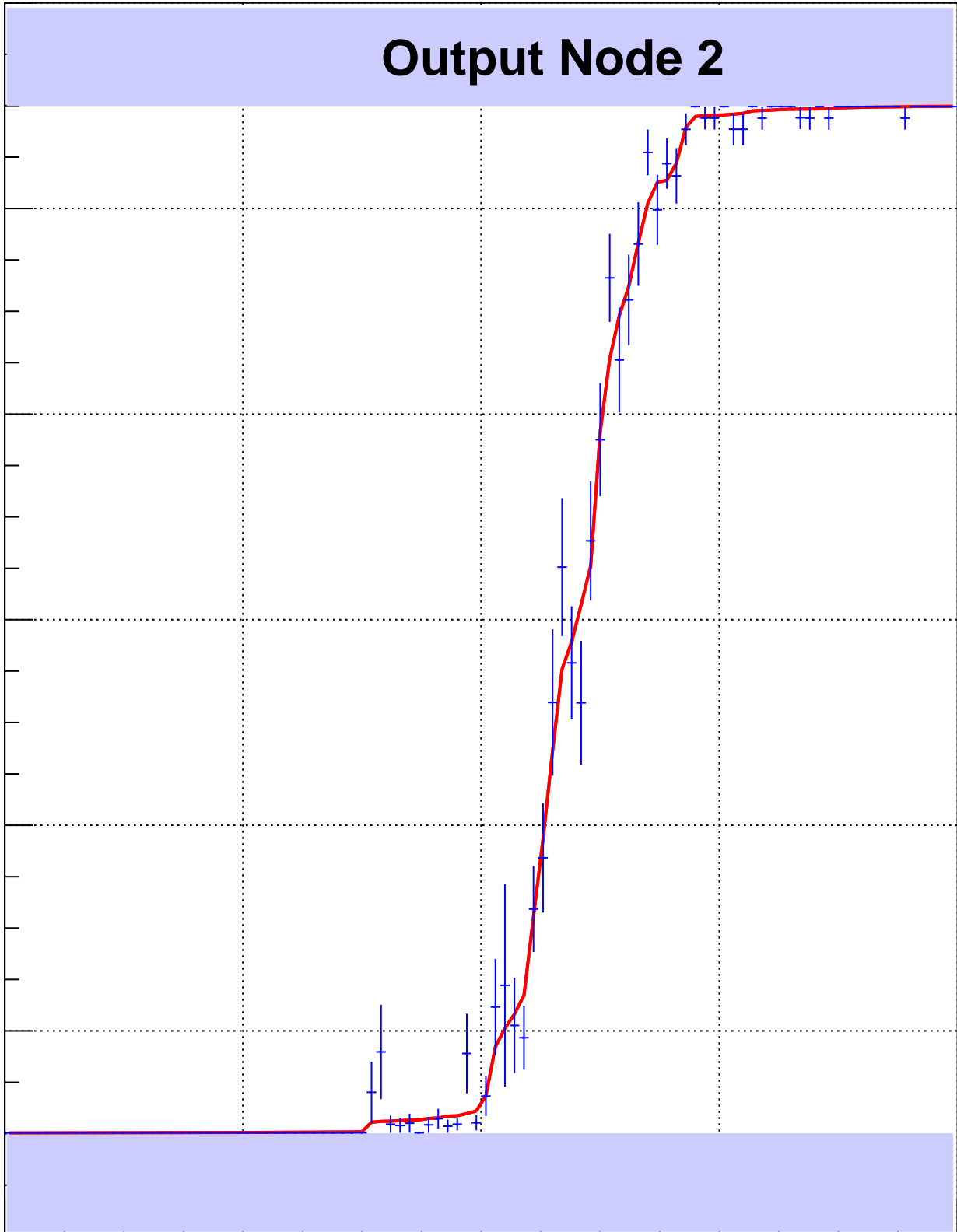


Output Node 1 ( $n = 8967.97$   $s = 3605.97$   $b = 5362$   $p_{\text{sig}} = 0.4021$ )

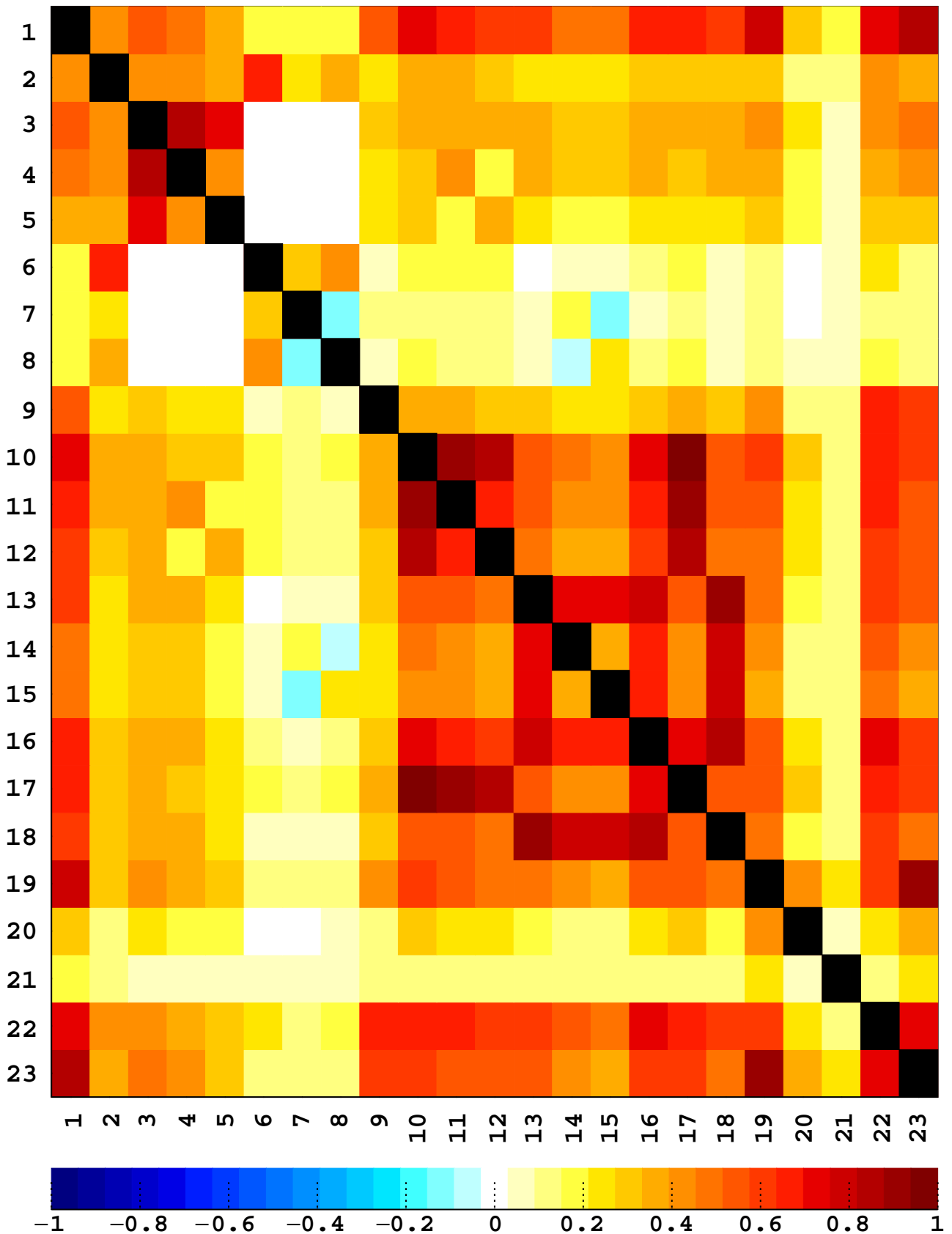




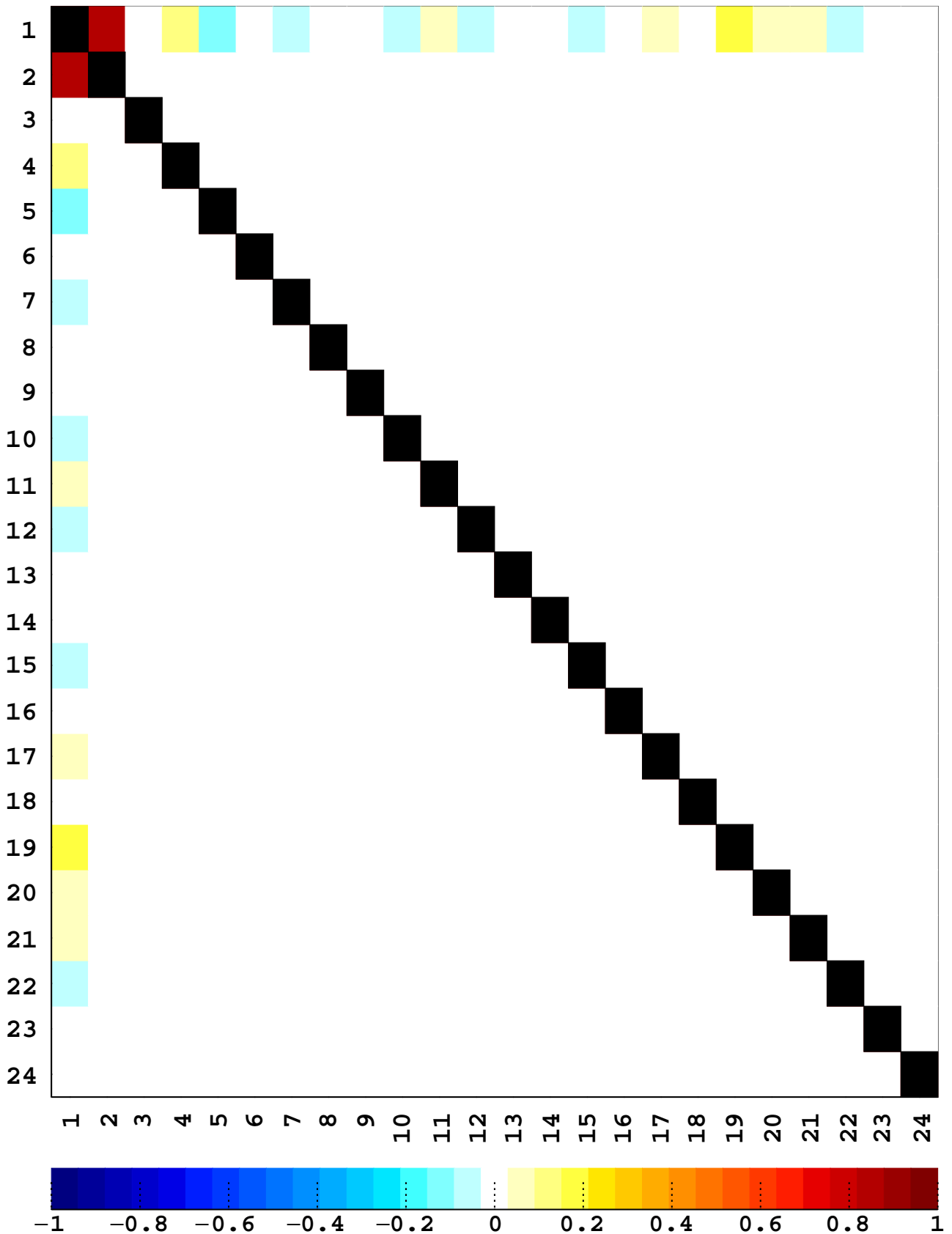
**Output Node 2**

**Output Node 2**

## correlation matrix of input variables



## correlation matrix of input variables



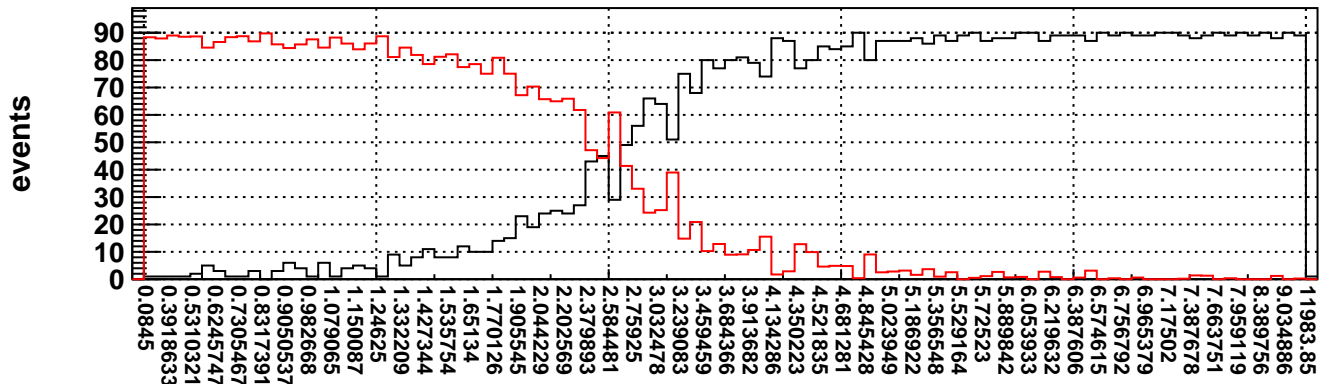
Input node 23 :  $B_0$   
1st most important

added signi. 80.44

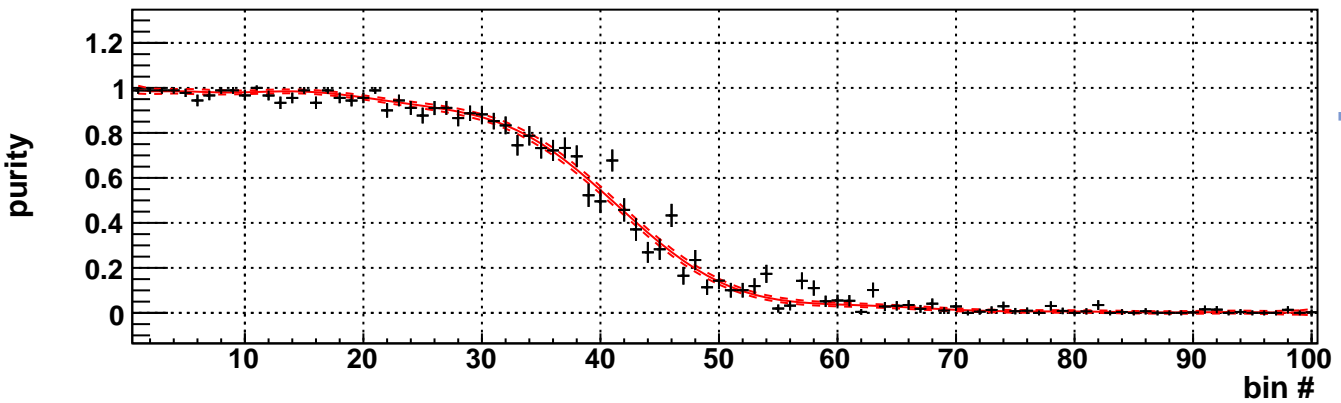
signi. loss 13.14

only this 80.44

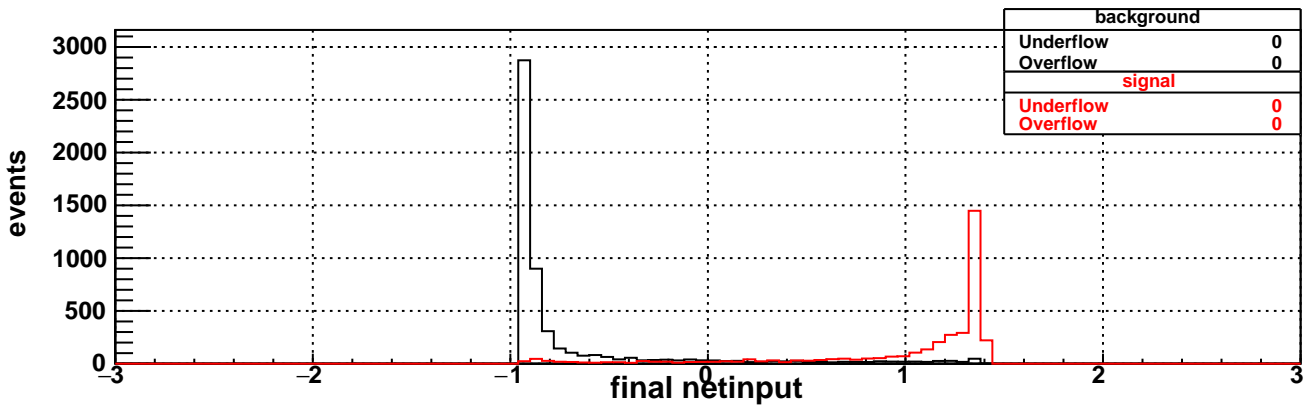
corr. to others 96.30%



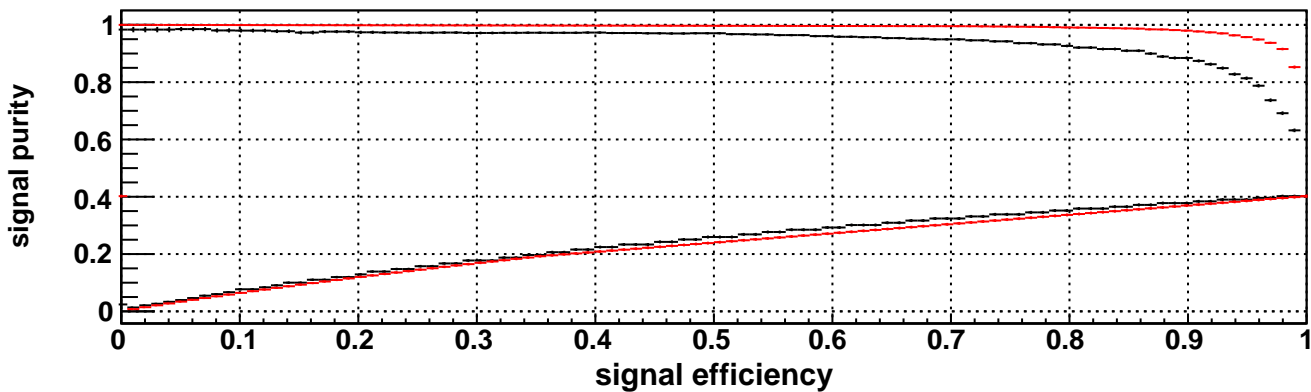
flat



spline fit



final



separation



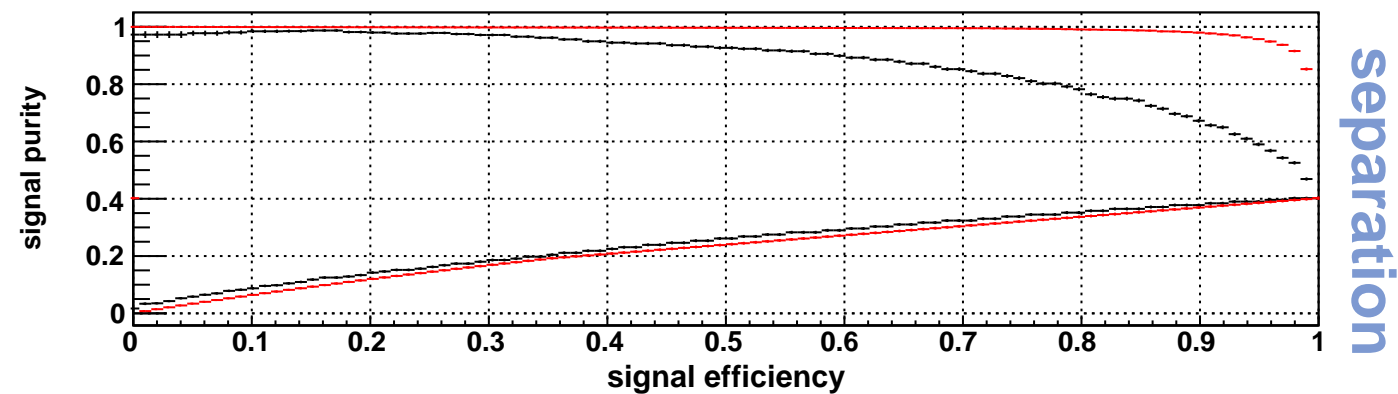
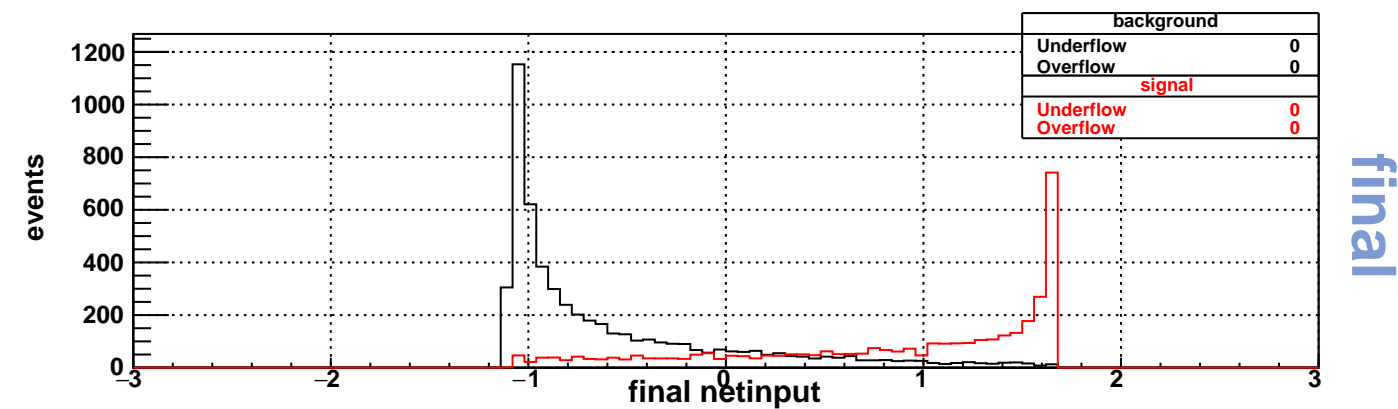
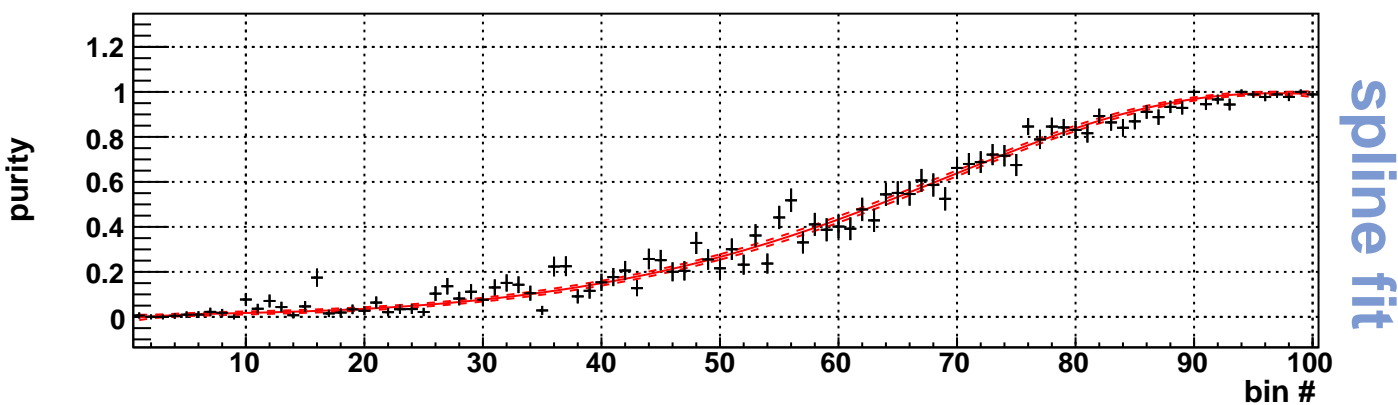
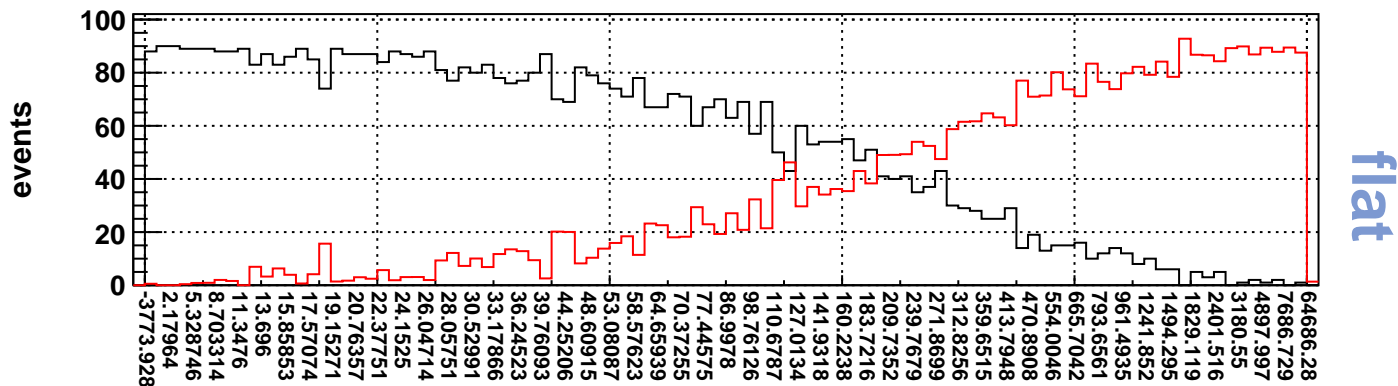
Input node 10 :  $K^{0*}$   
2nd most important

added signi. 22.26

signi. loss 3.48

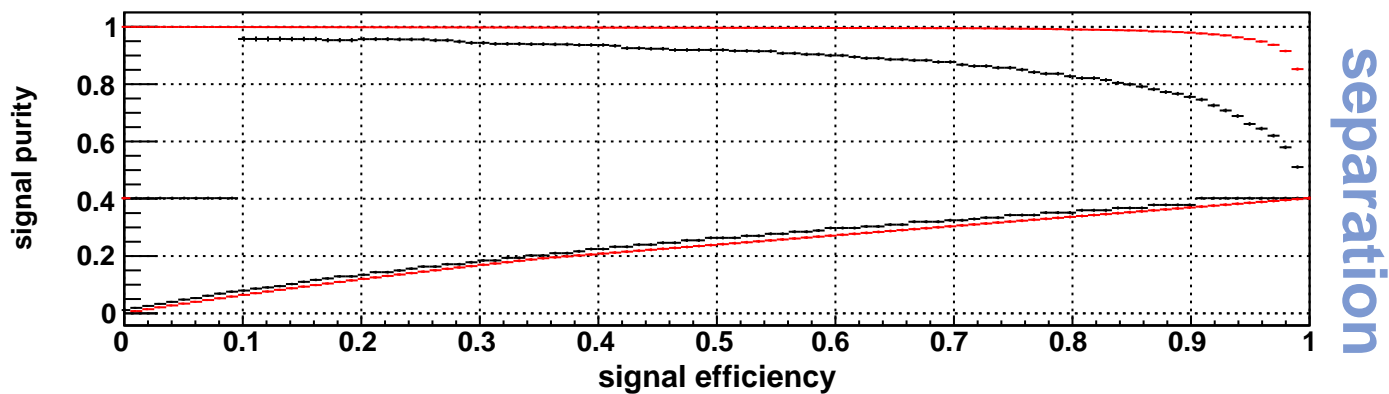
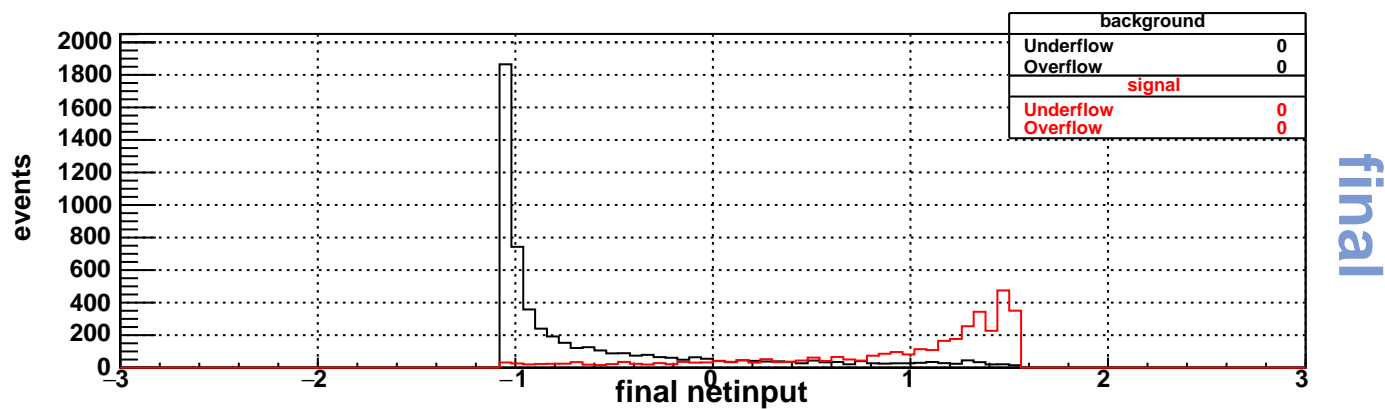
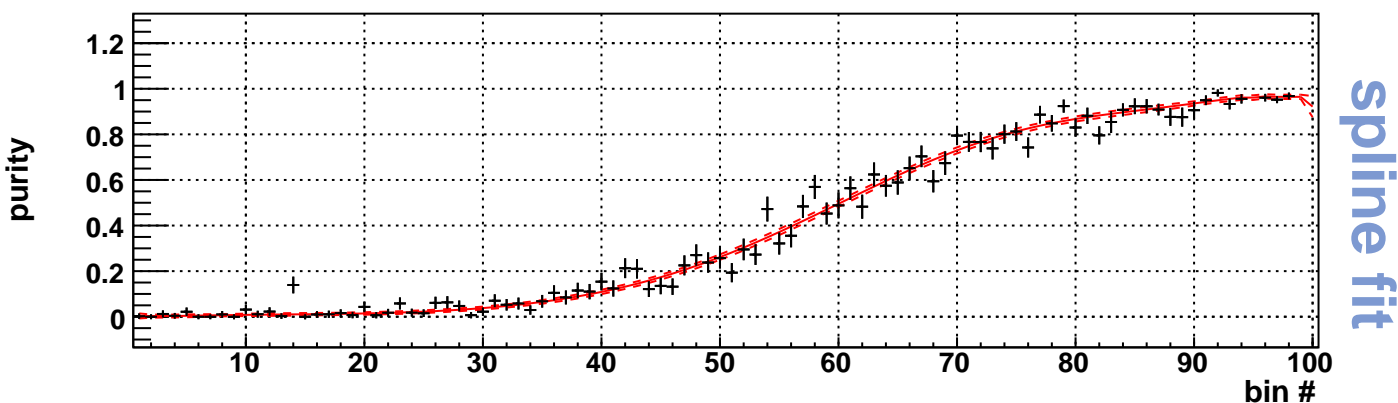
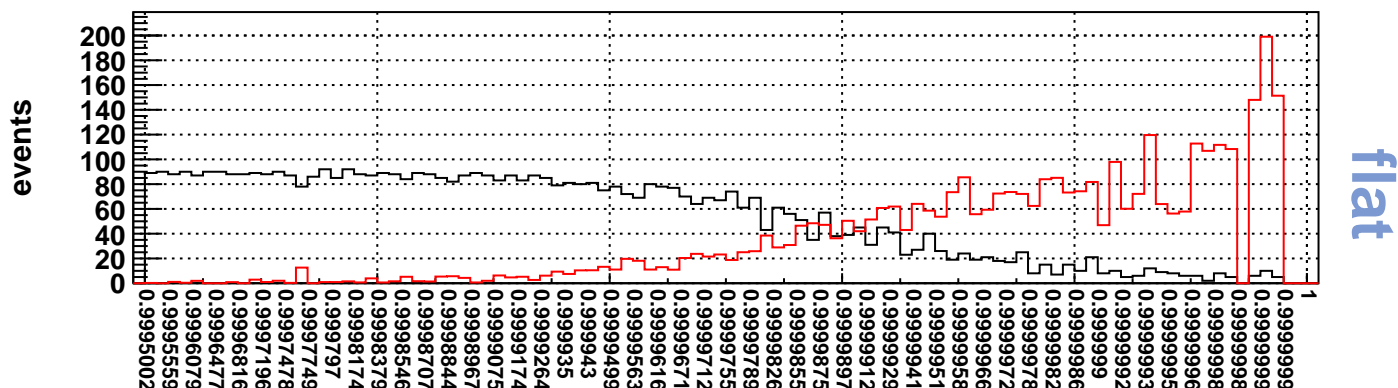
only this 67.58

corr. to others 97.80%



**Input node 22 :  $B_0$**   
 3rd most important  
 added signi. 10.58  
 signi. loss 3.95

PrePro: DIRA 14 #22  
 only this 71.24  
 corr. to others 89.60%



Input node 3 :  $K^0$

4th most important

added signi. 9.16

signi. loss 2.07

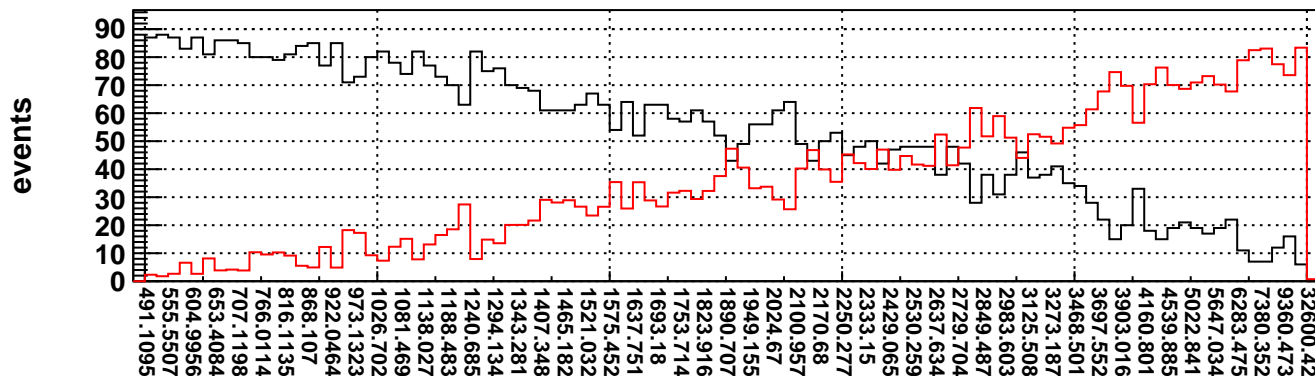
PrePro:  $p_T$  14 #3

only this 49.13

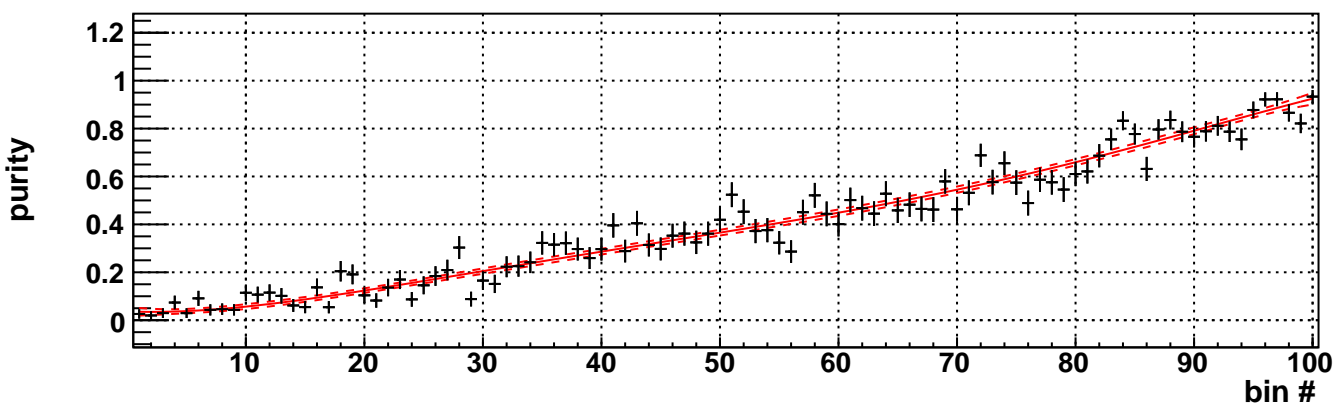
corr. to others 97.20%

Phi-T

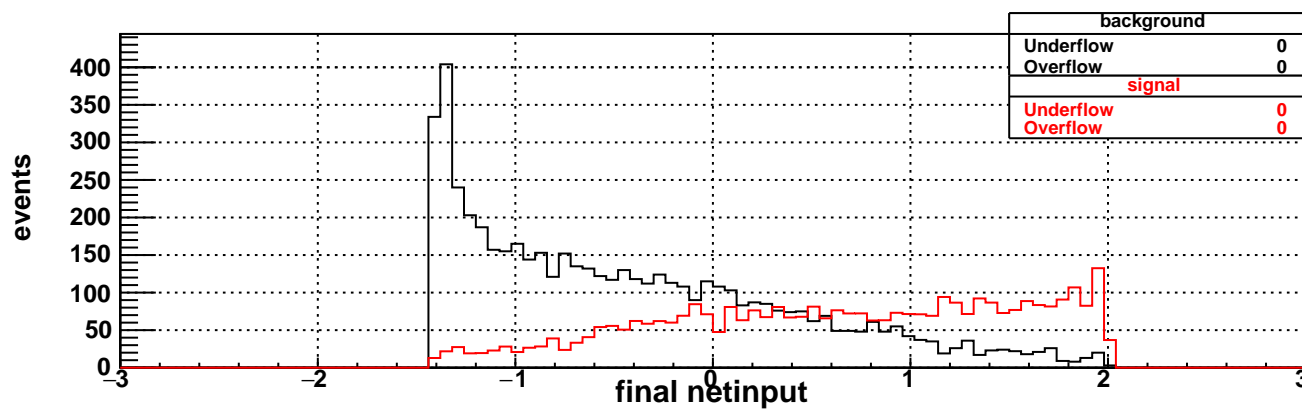
NeuroBayes® Teacher



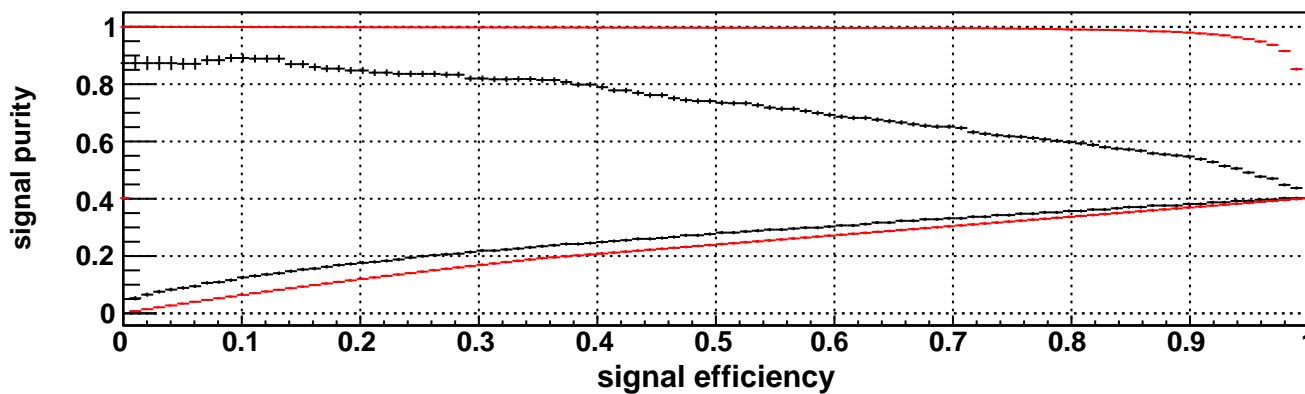
flat



spline fit



final



separation

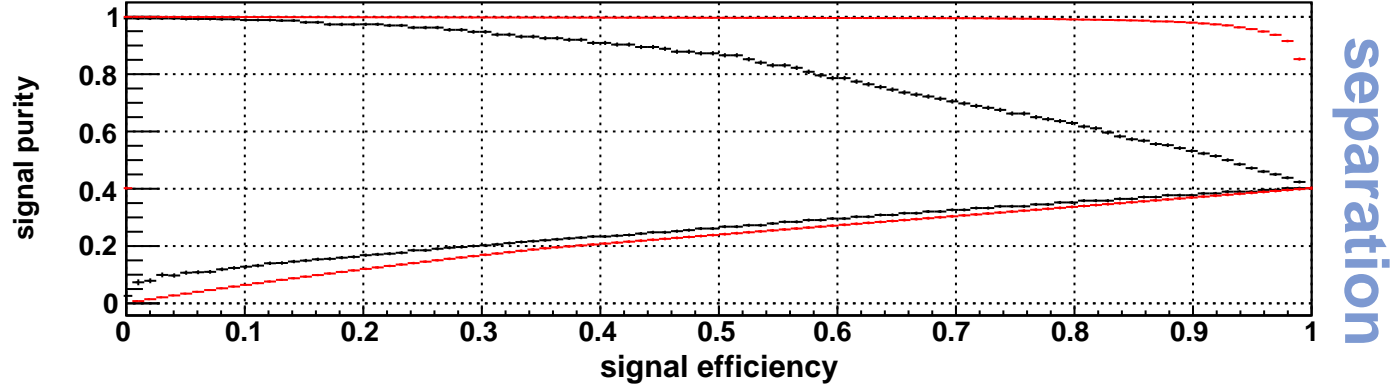
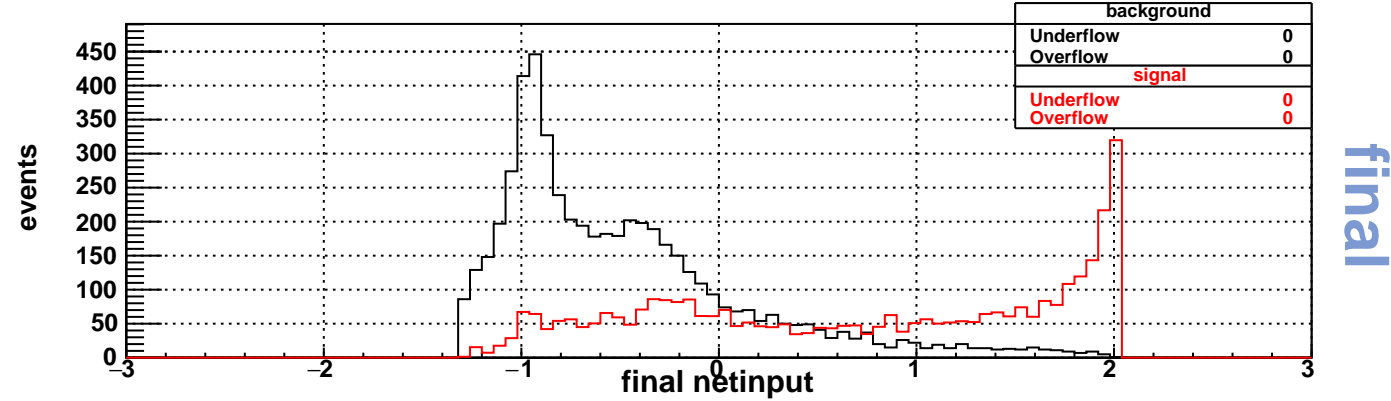
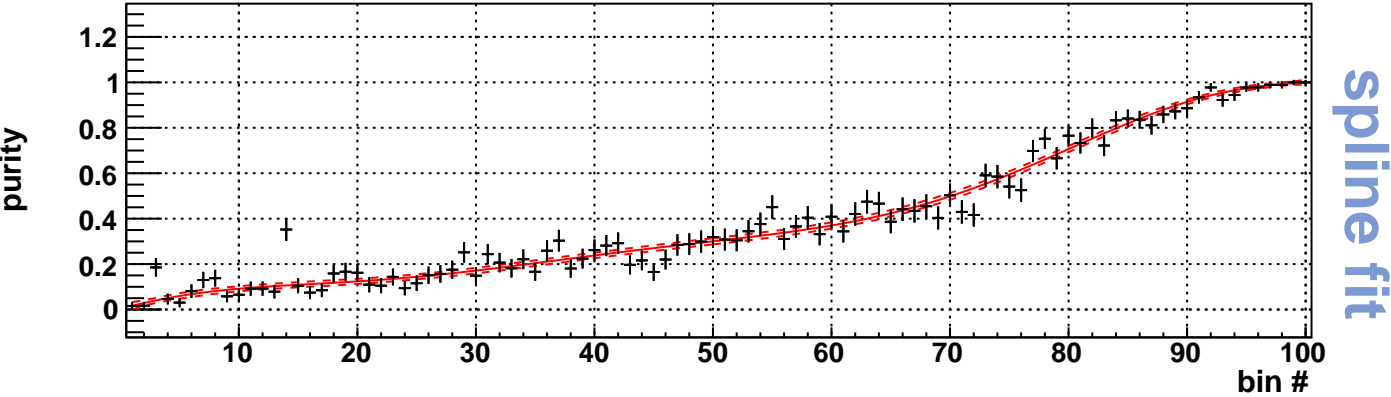
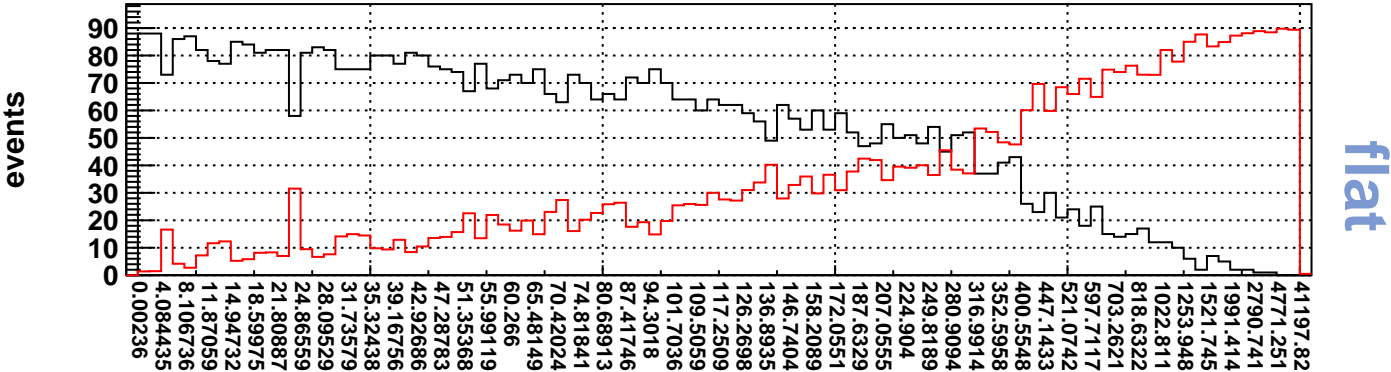
5th most important

added signi. 6.58

signi. loss 1.35

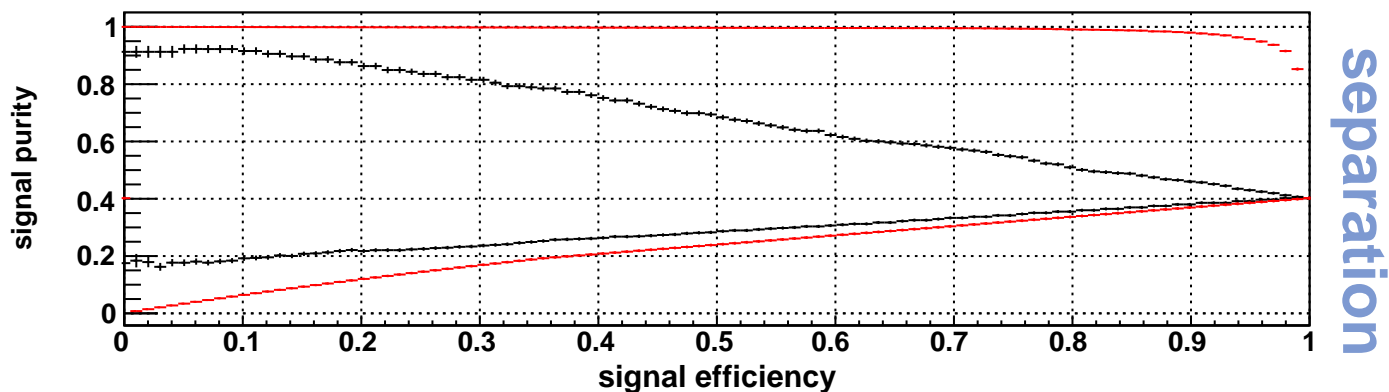
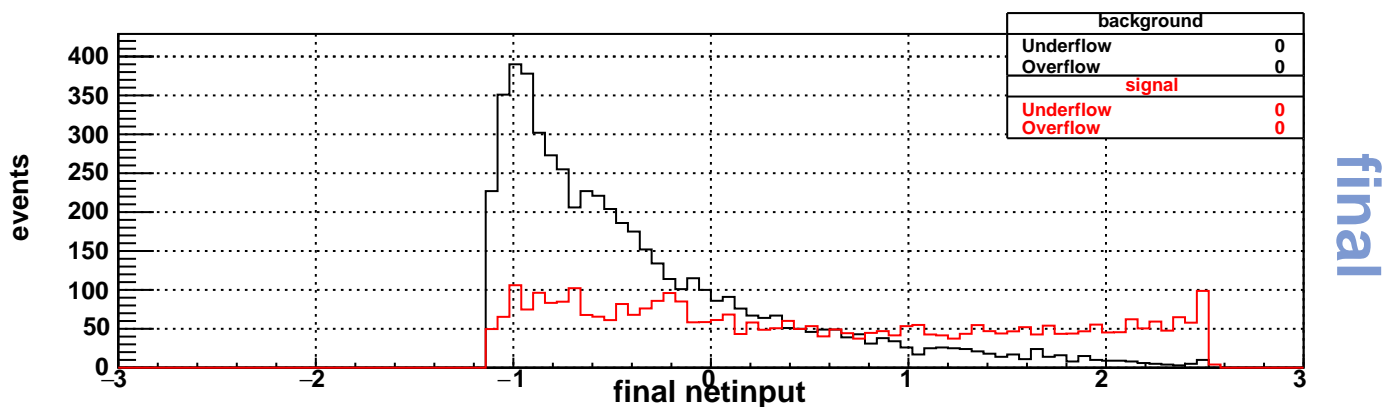
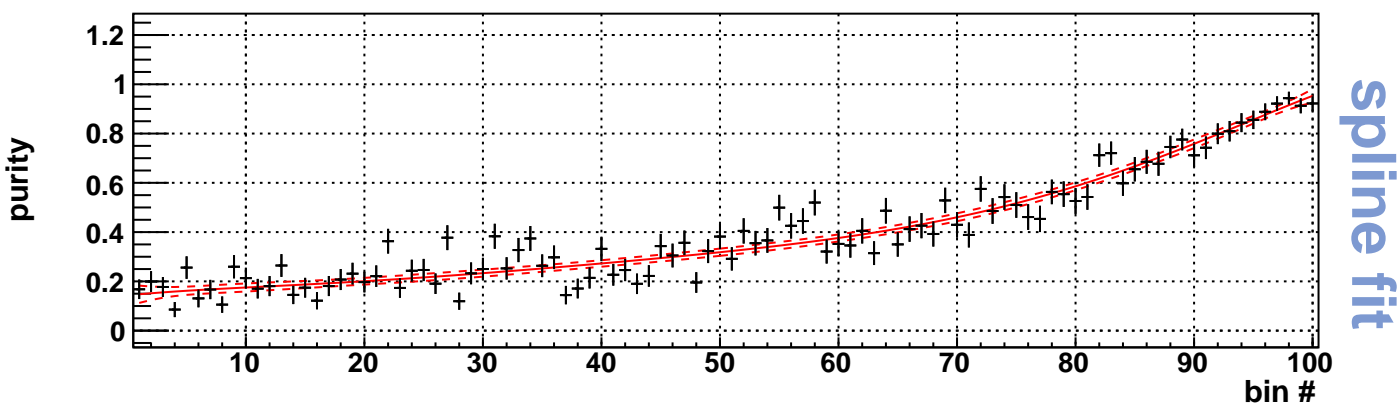
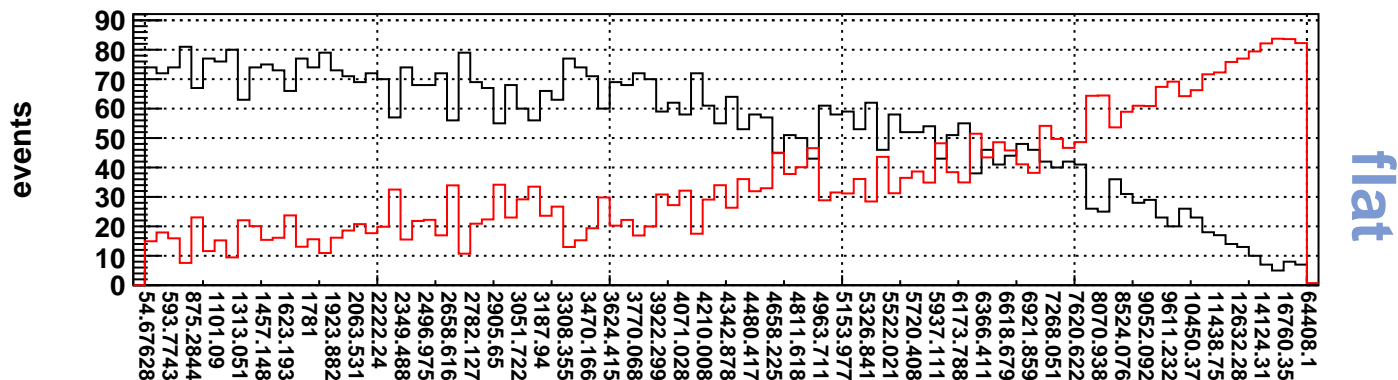
only this 56.15

corr. to others 92.00%



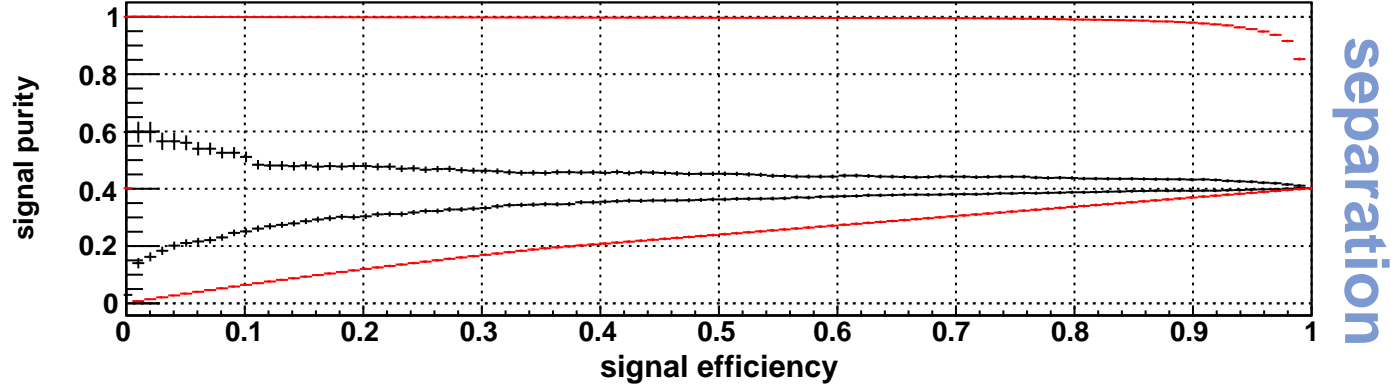
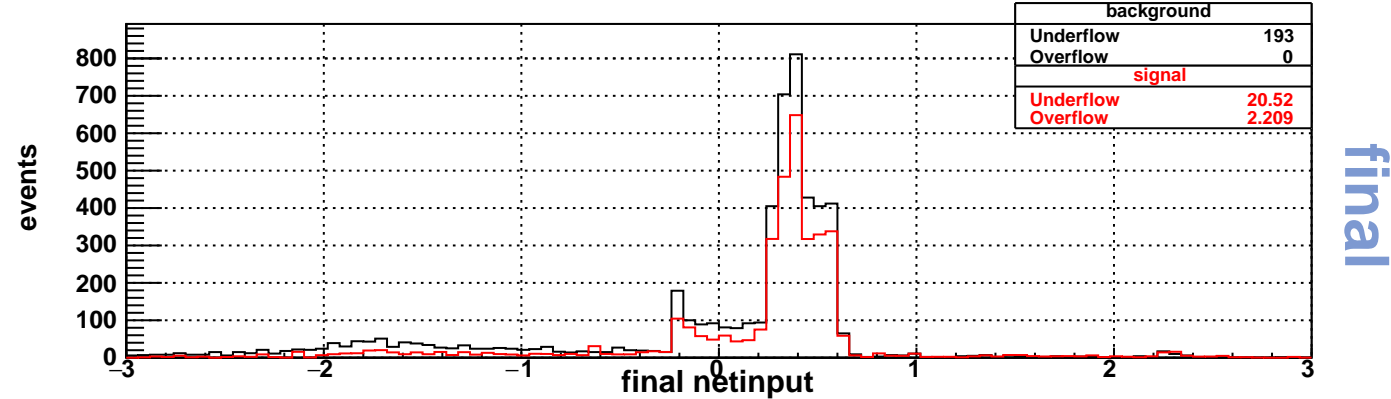
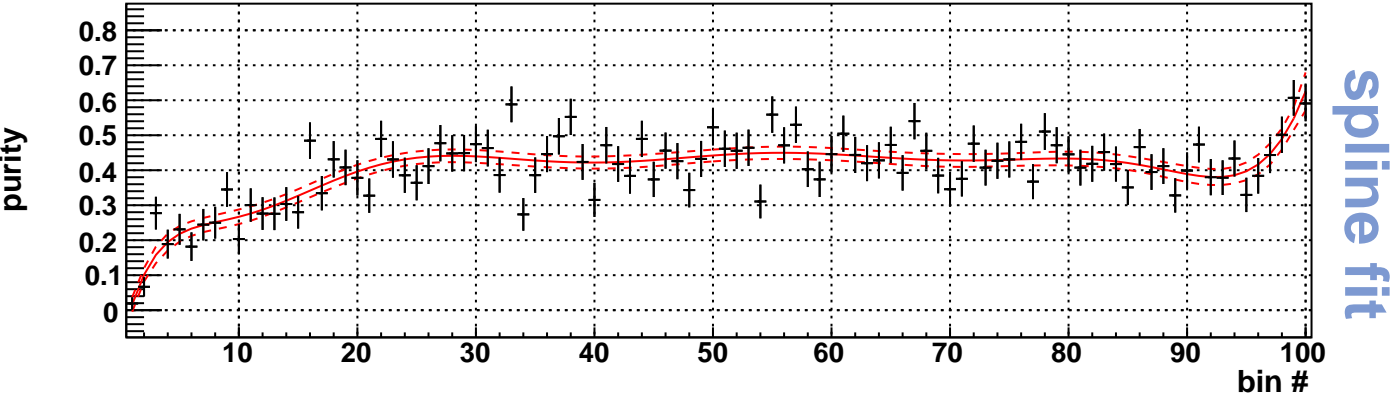
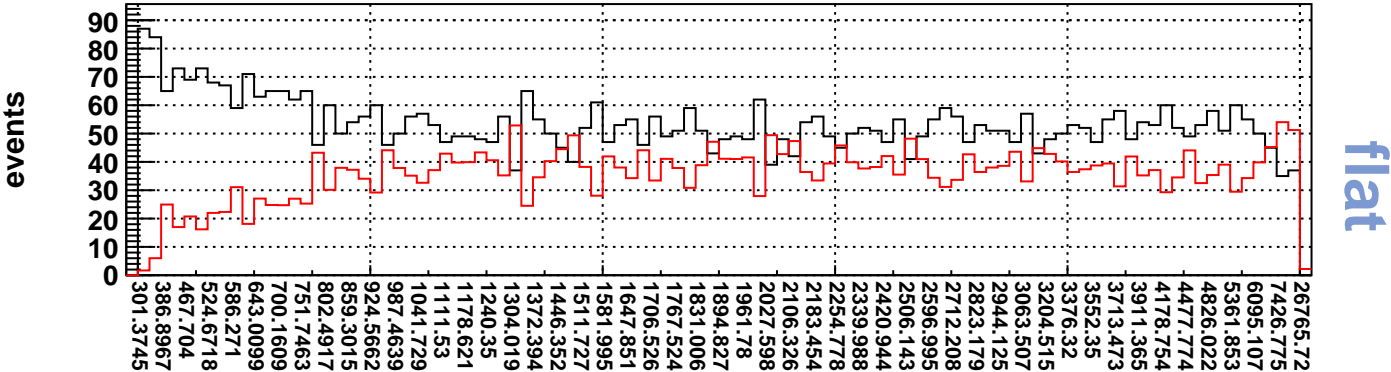
**Input node 2 :  $B_0$**   
 6th most important  
 added signi. 6.00  
 signi. loss 4.39

PrePro:  $p_T$  14 #2  
 only this 41.42  
 corr. to others 83.70%



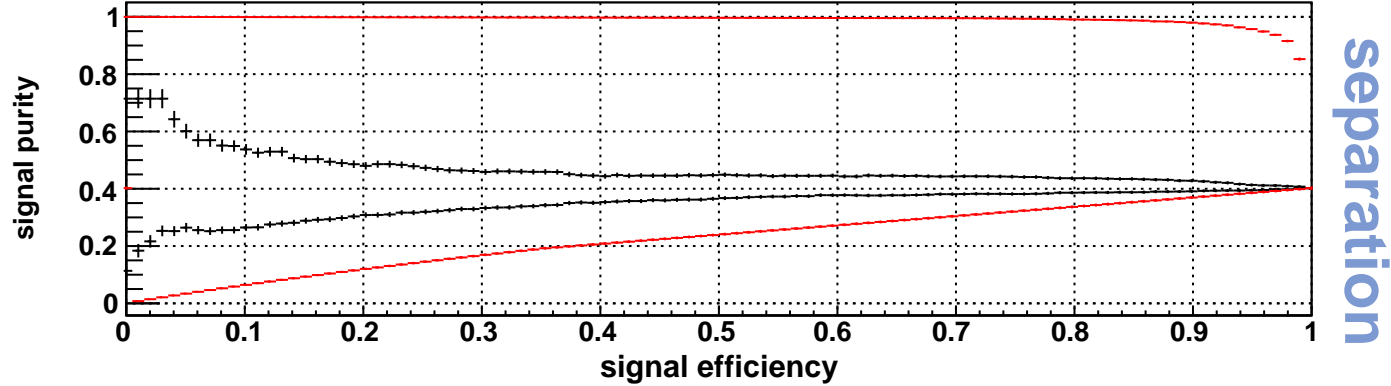
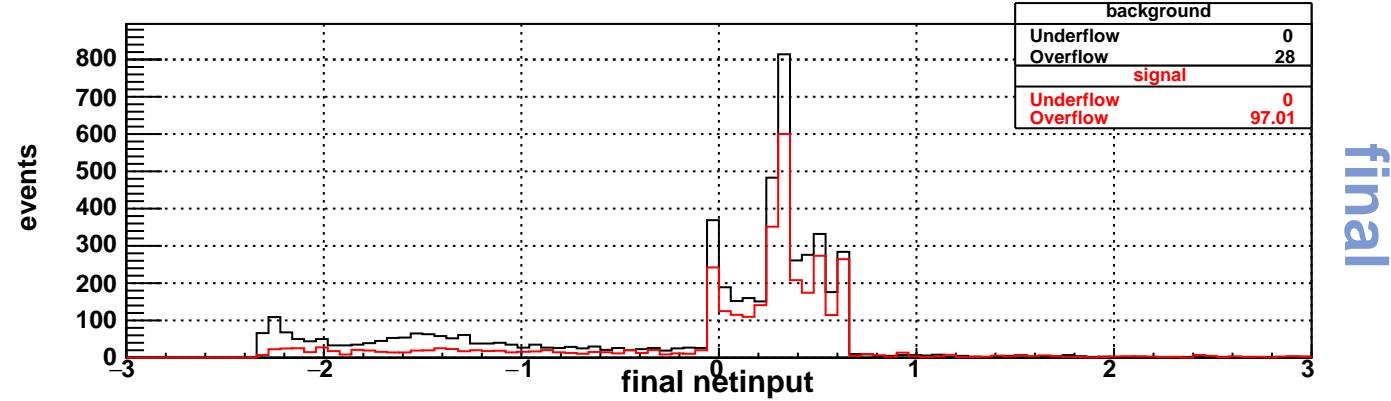
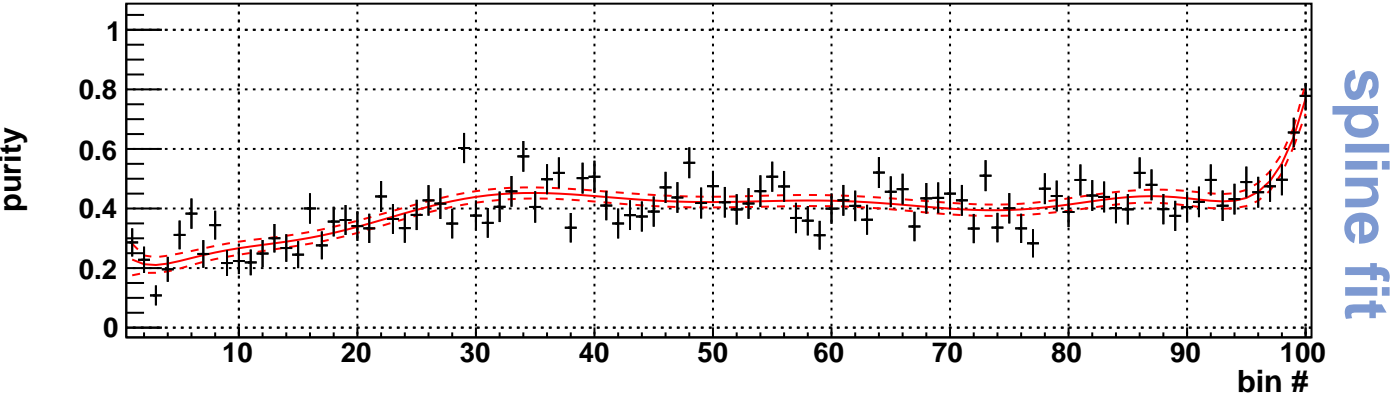
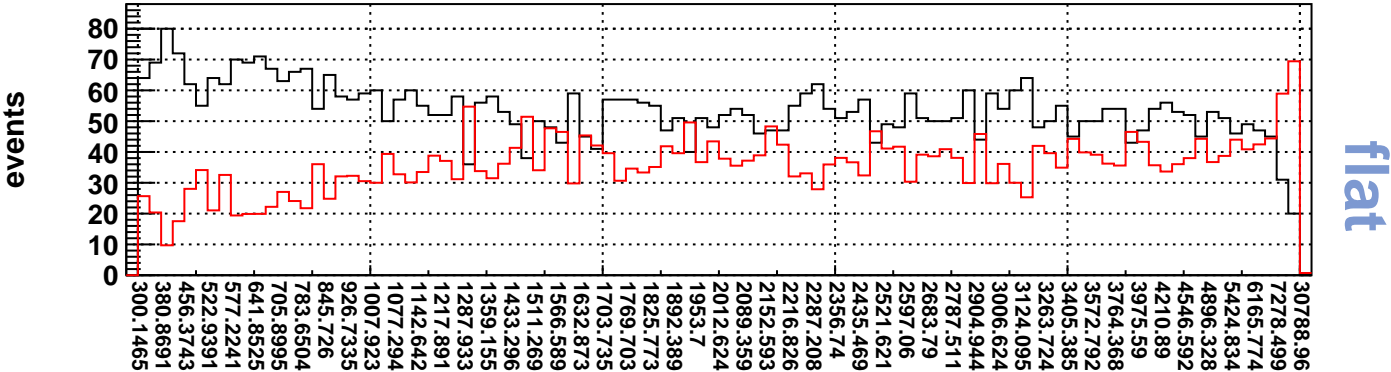
7th most important  
added signi. 2.96  
signi. loss 3.79

PrePro:  $p_T$  14 #7  
only this 15.85  
corr. to others 49.10%



8th most important  
added signi. 2.73  
signi. loss 3.46

PrePro:  $p_T$  14 #8  
only this 15.04  
corr. to others 57.80%



9th most important

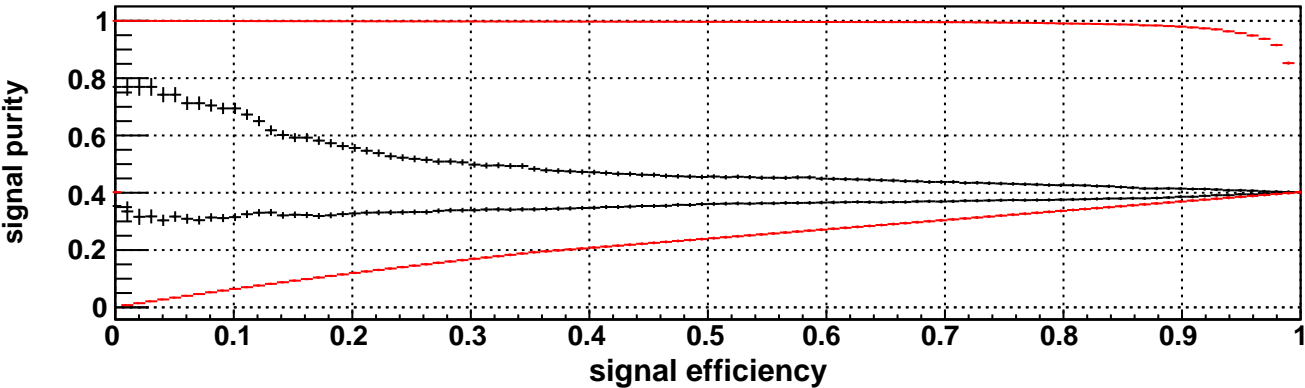
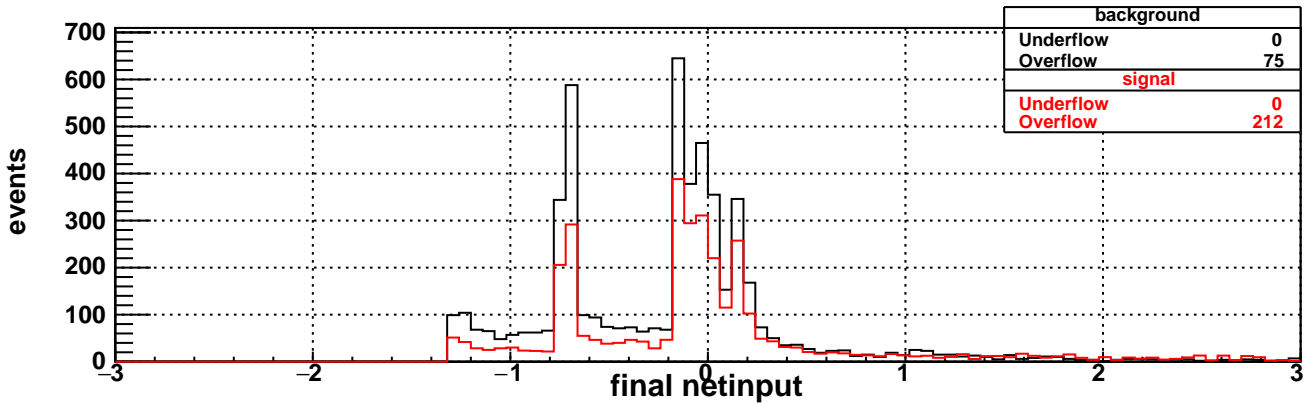
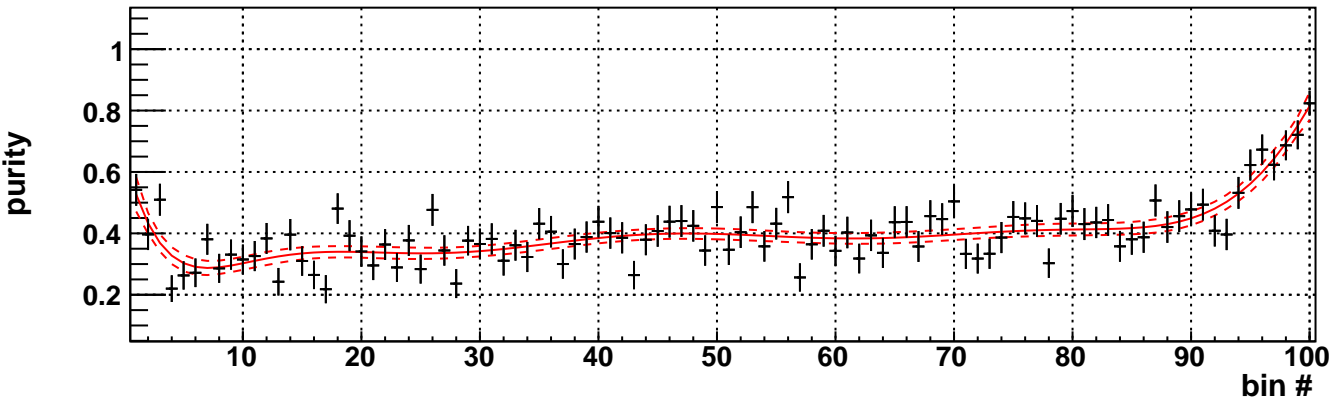
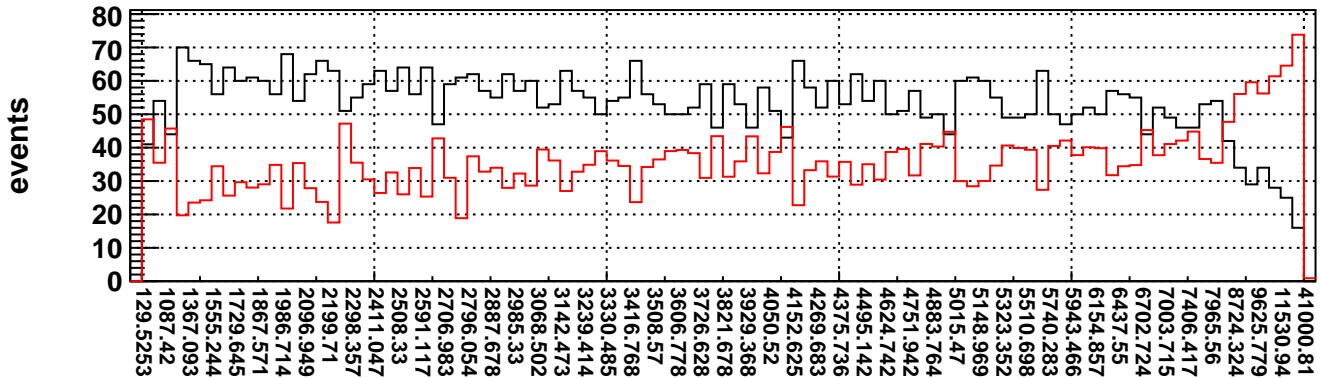
added signi. 3.06

signi. loss 2.84

PrePro:  $p_T$  14 #6

only this 16.41

corr. to others 79.80%





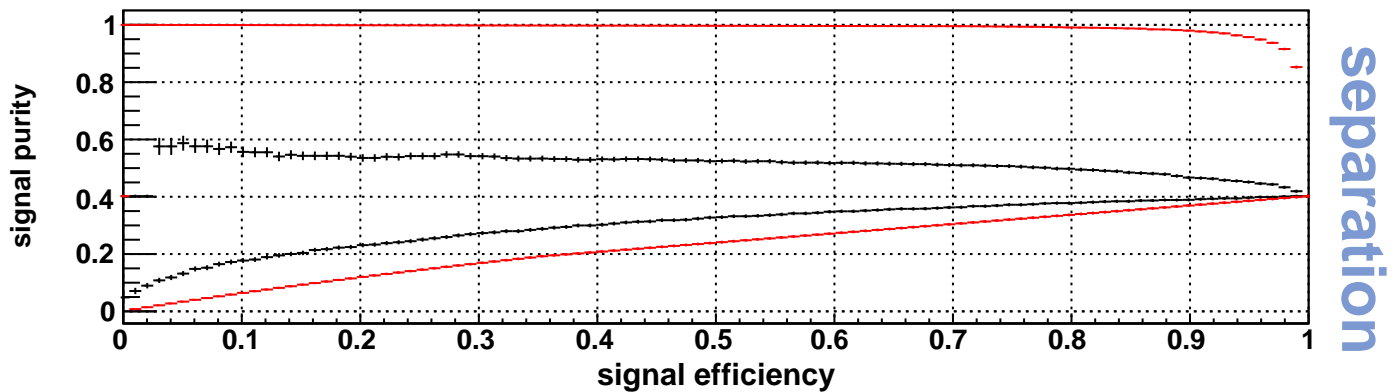
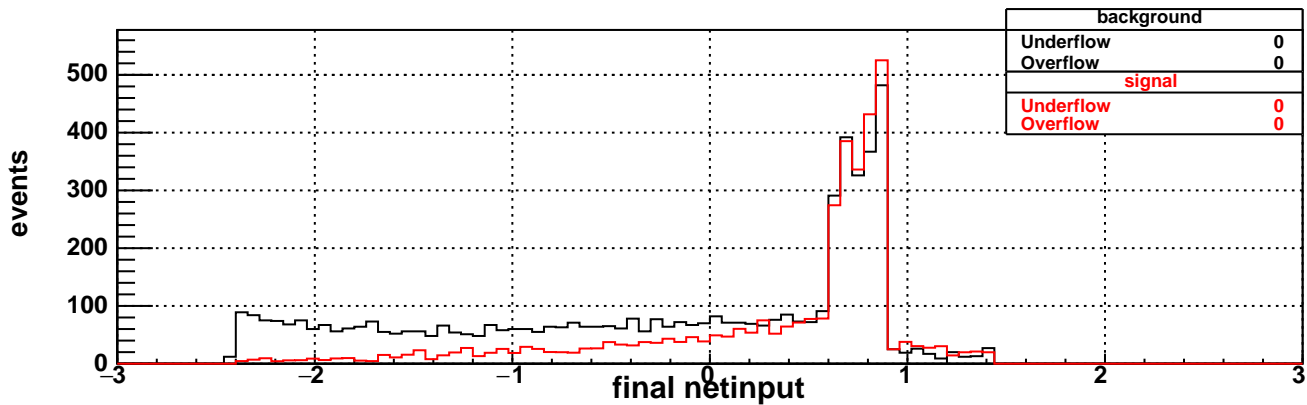
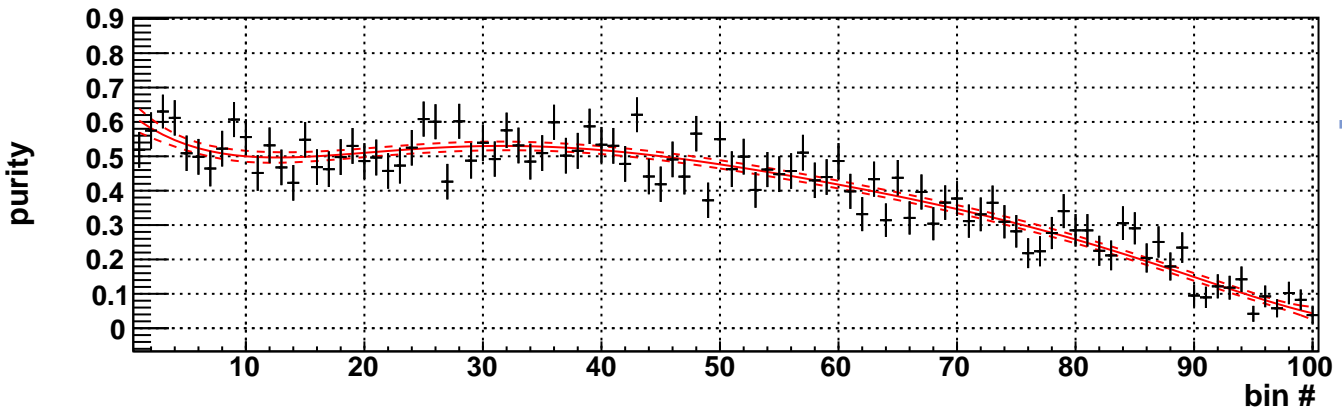
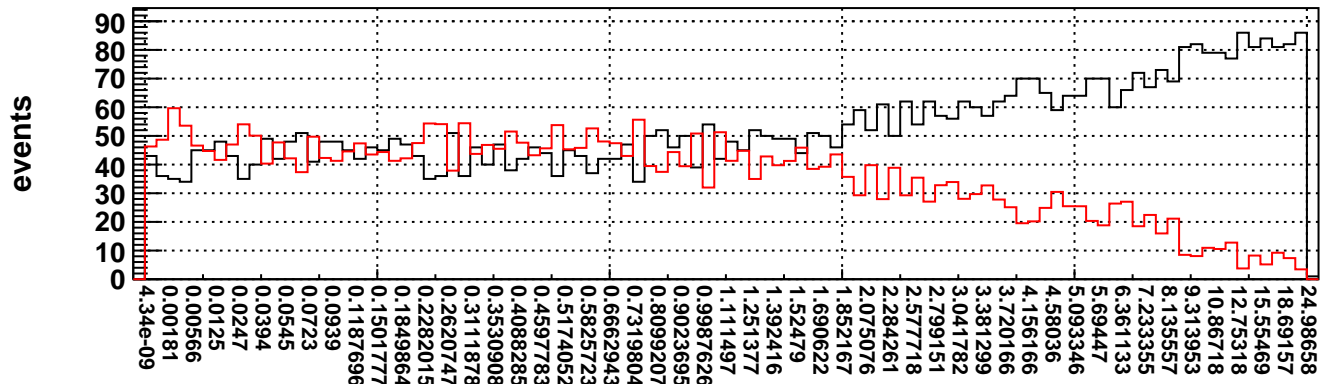
Input node 20 :  $K^{0*}$   
10th most important

added signi. 2.41

signi. loss 2.38

only this 28.14

corr. to others 44.80%



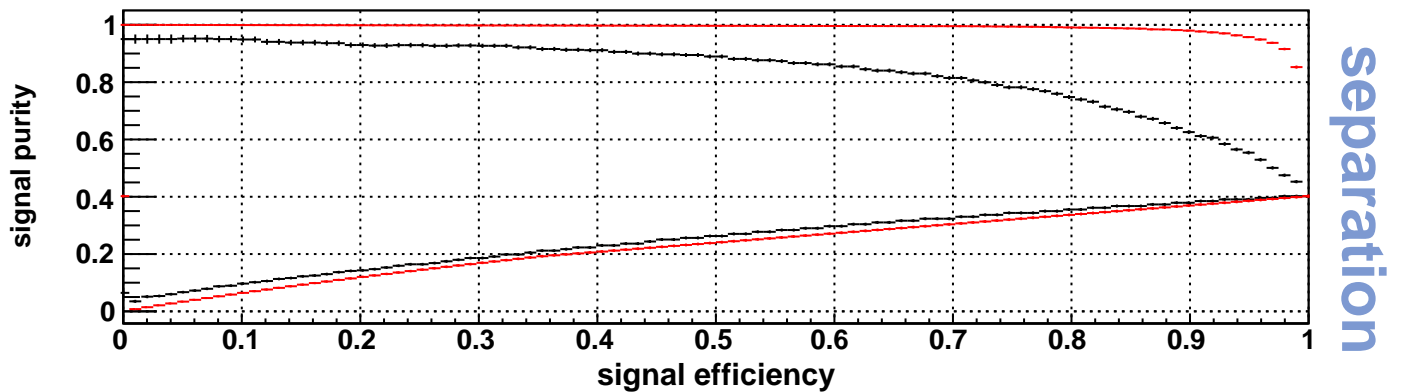
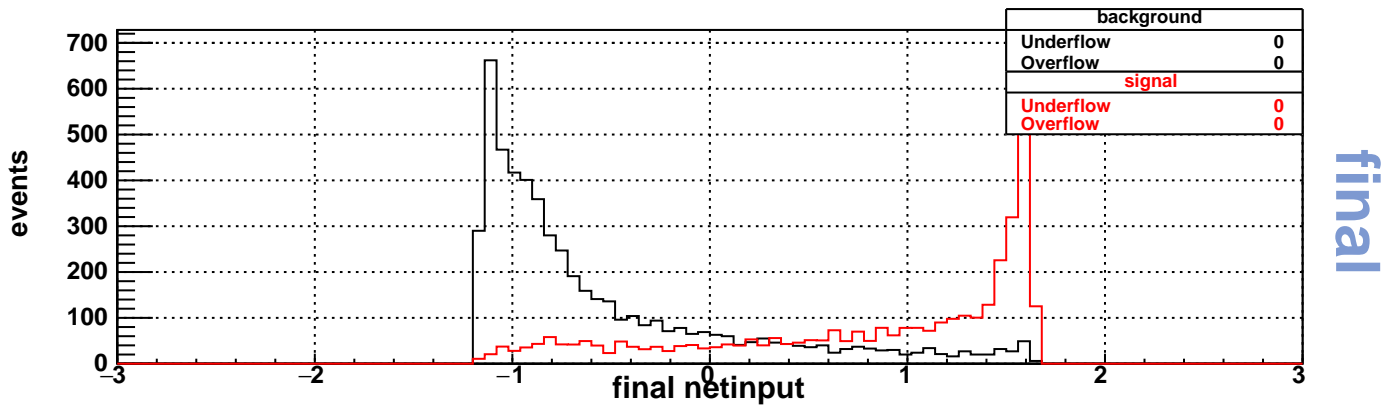
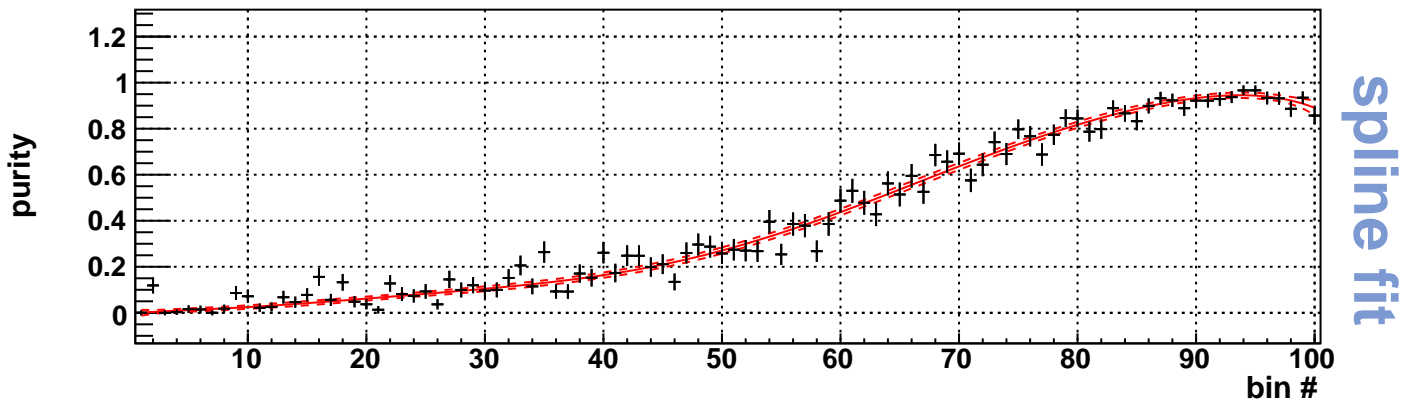
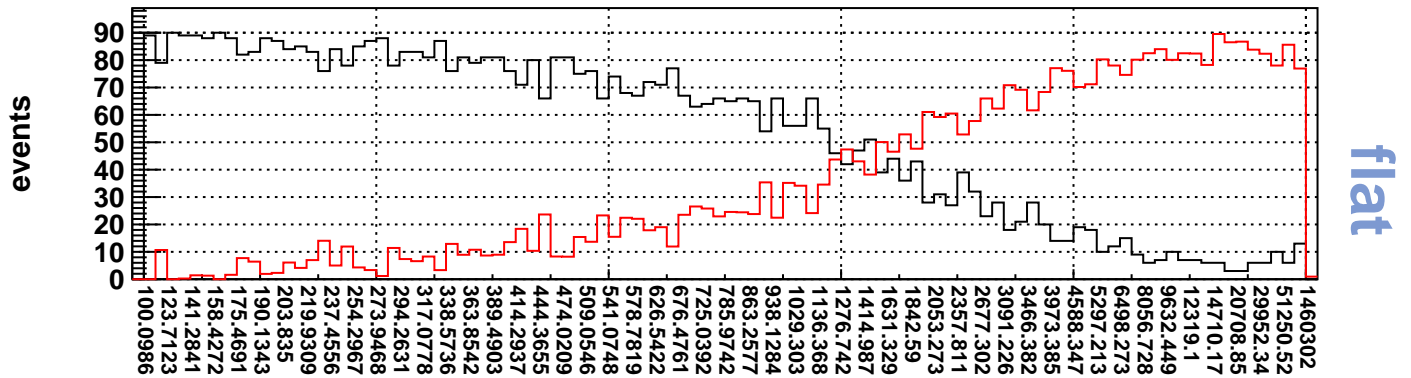
Input node 16 :  $B_0$   
11th most important

added signi. 2.03

signi. loss 1.37

only this 63.73

corr. to others 92.80%



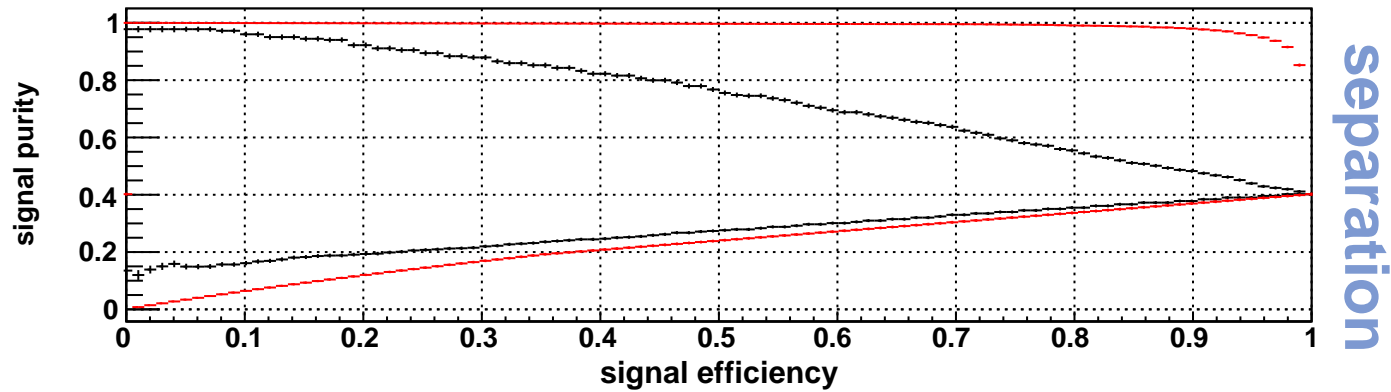
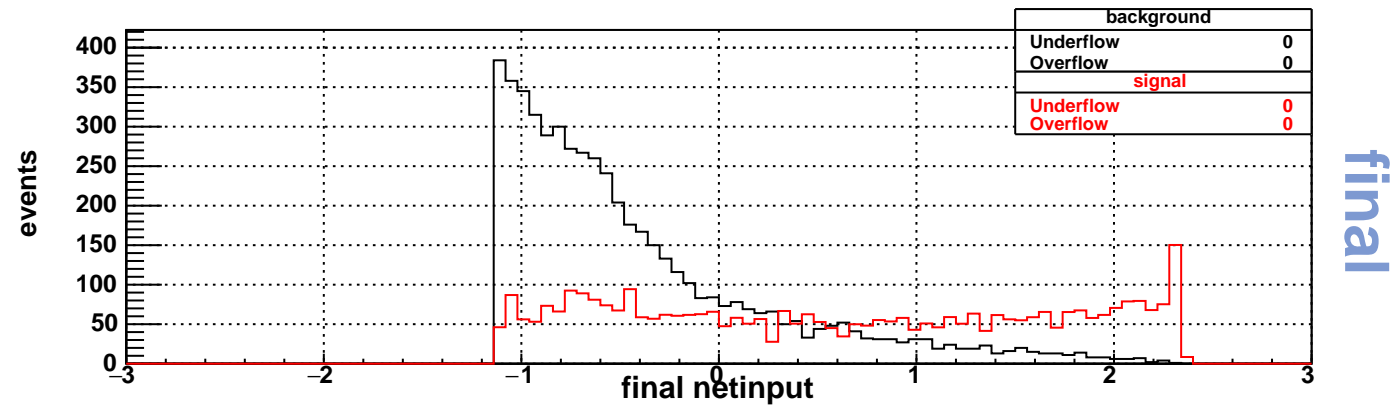
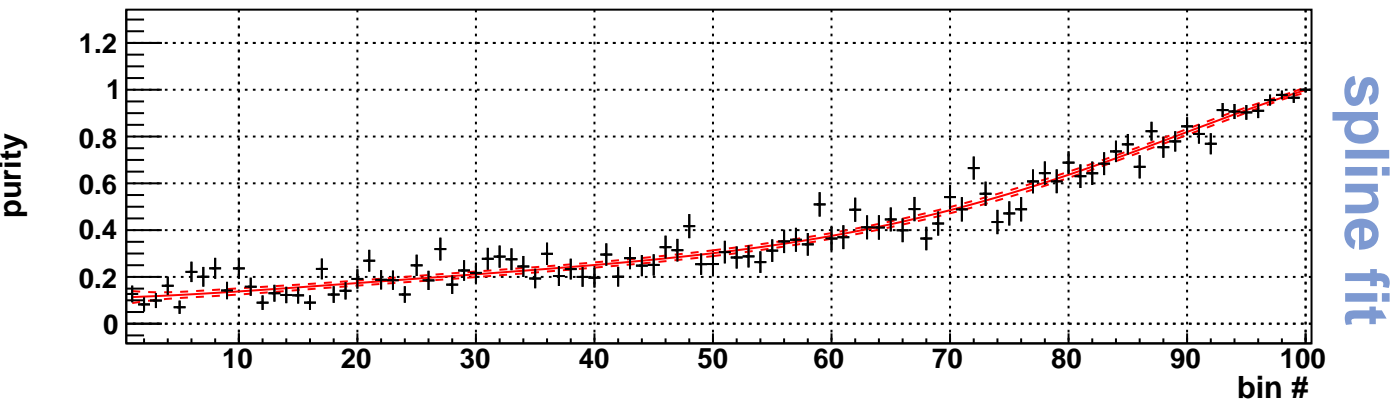
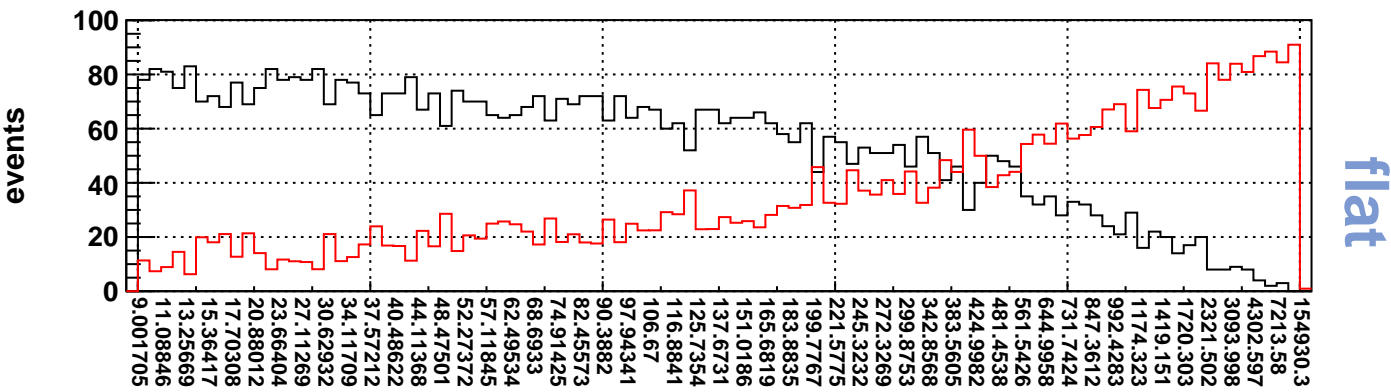
12th most important

added signi. 1.45

signi. loss 1.75

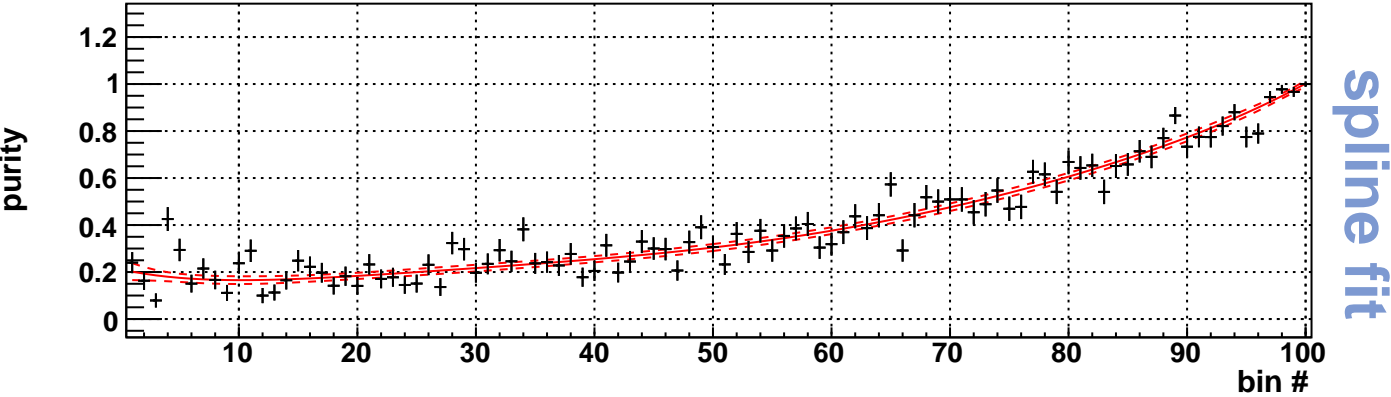
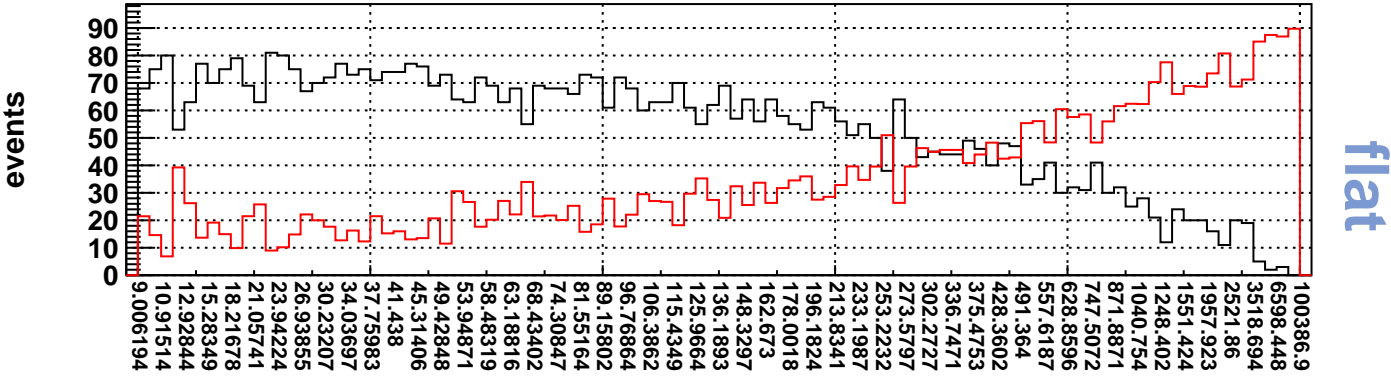
only this 47.90

corr. to others 91.70%



13th most important  
added signi. 1.04  
signi. loss 1.20

only this 43.24  
corr. to others 90.90%



**Input node 11 : K**

**14th most important**

**added signi. 0.84**

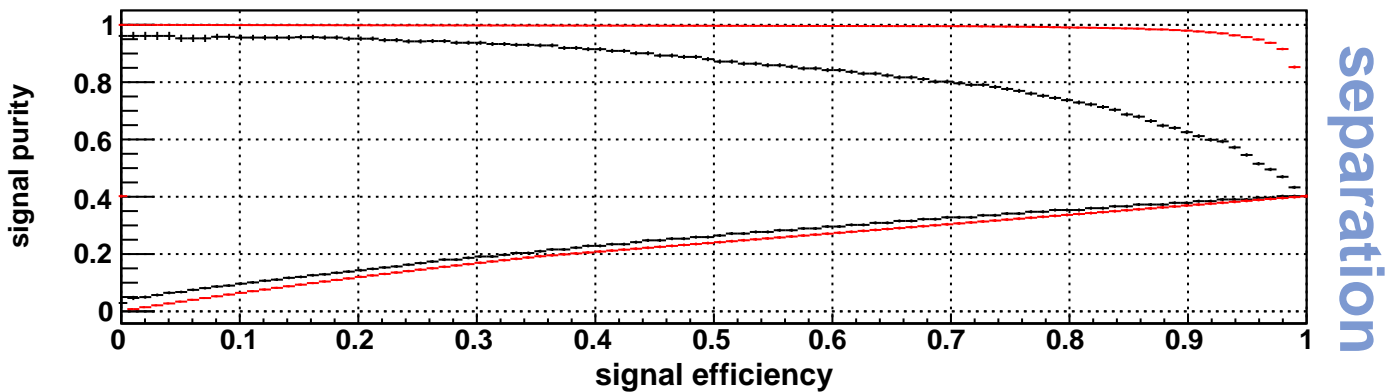
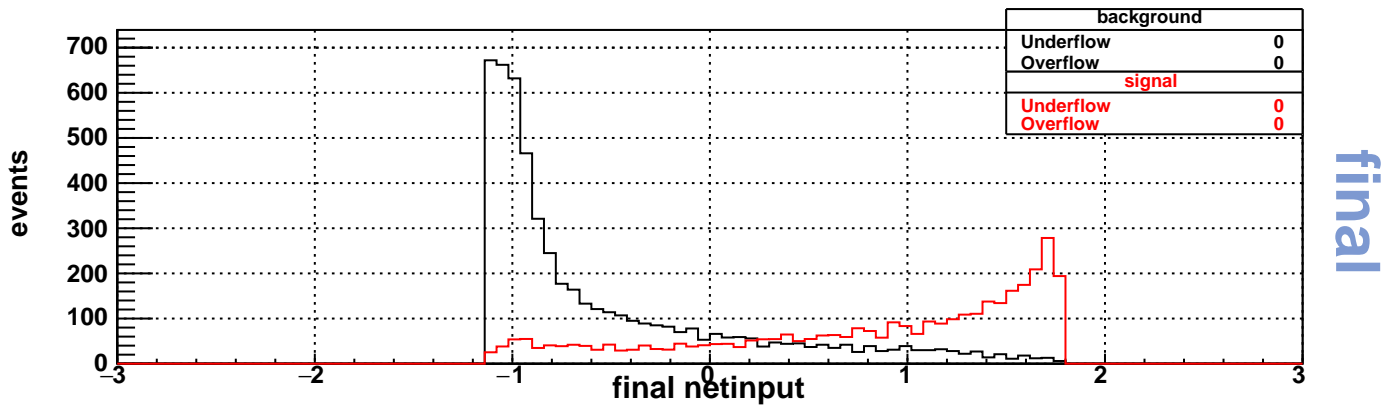
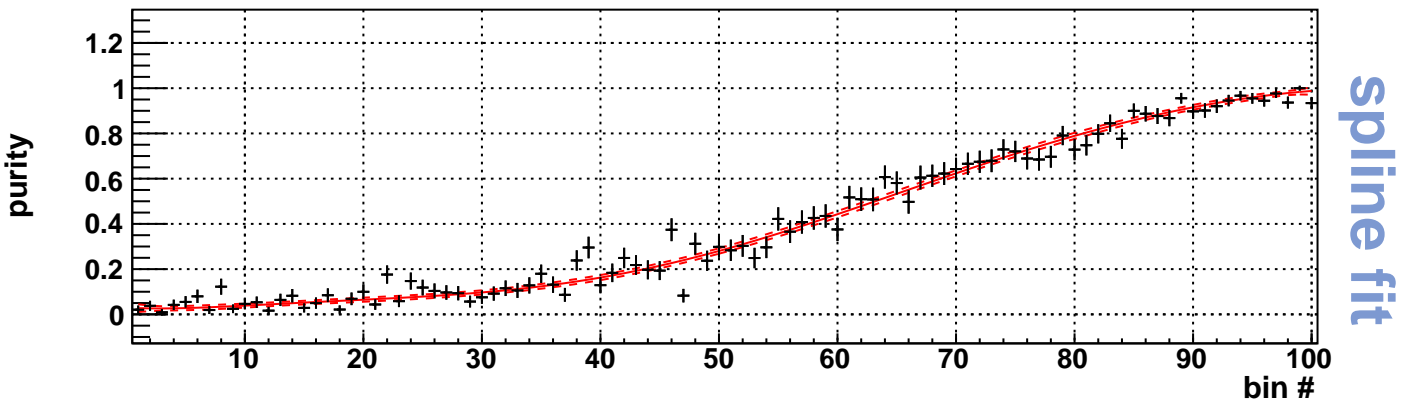
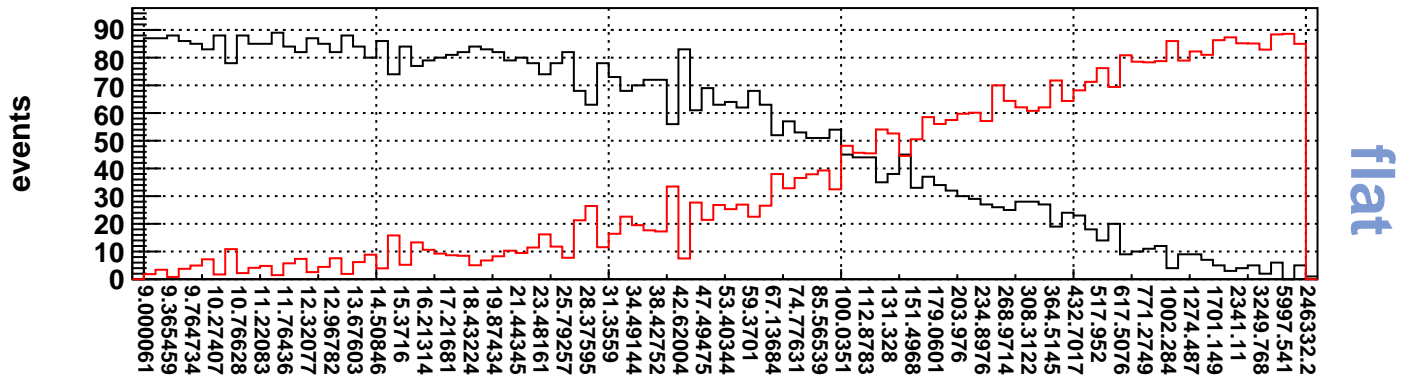
**signi. loss 0.71**

**only this 62.99**

**corr. to others 94.70%**

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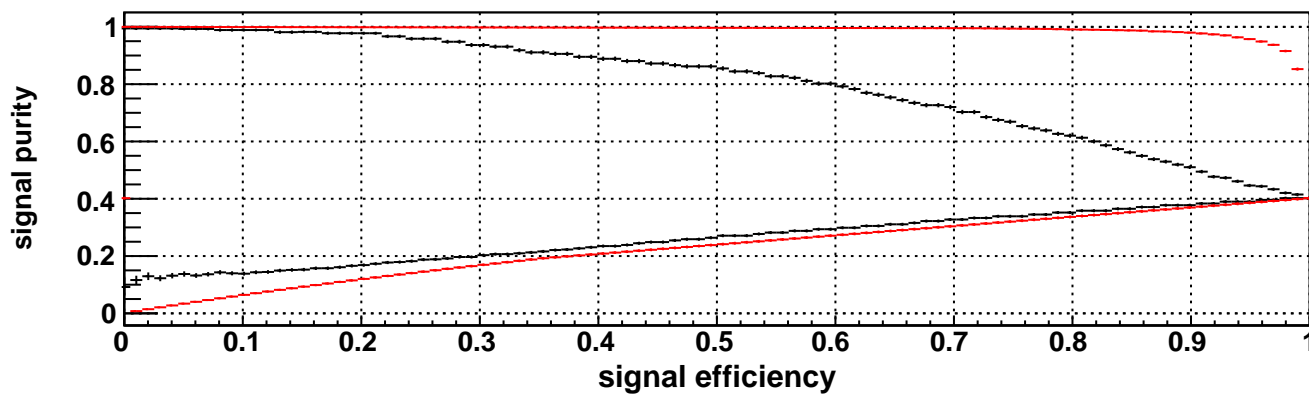
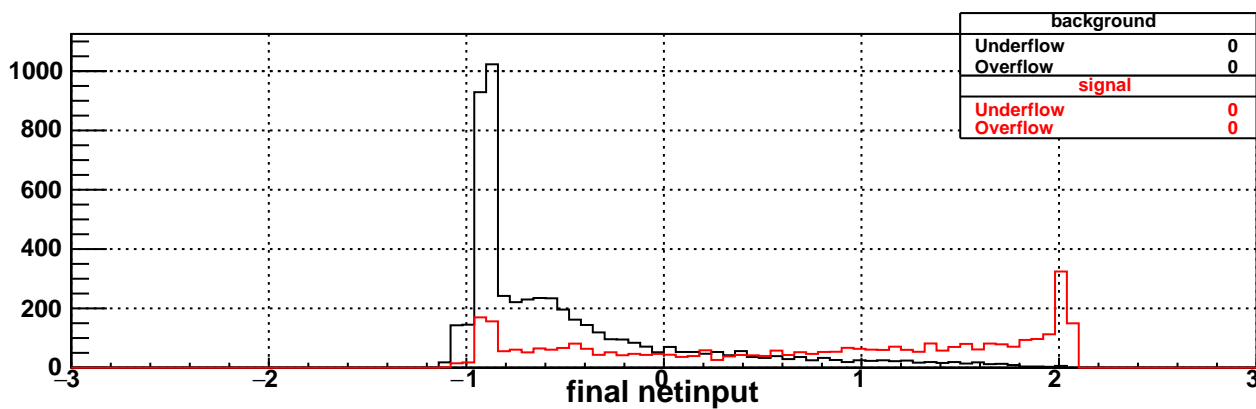
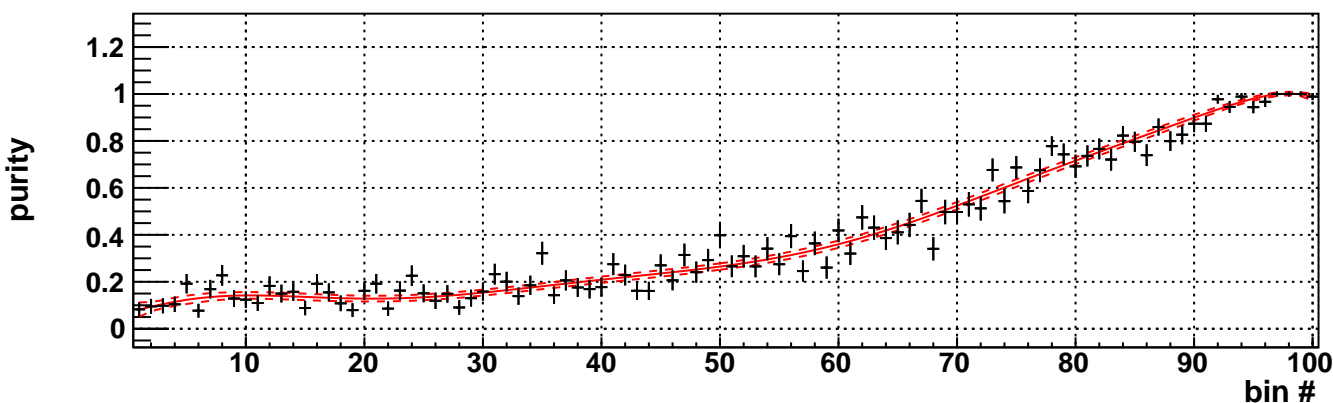
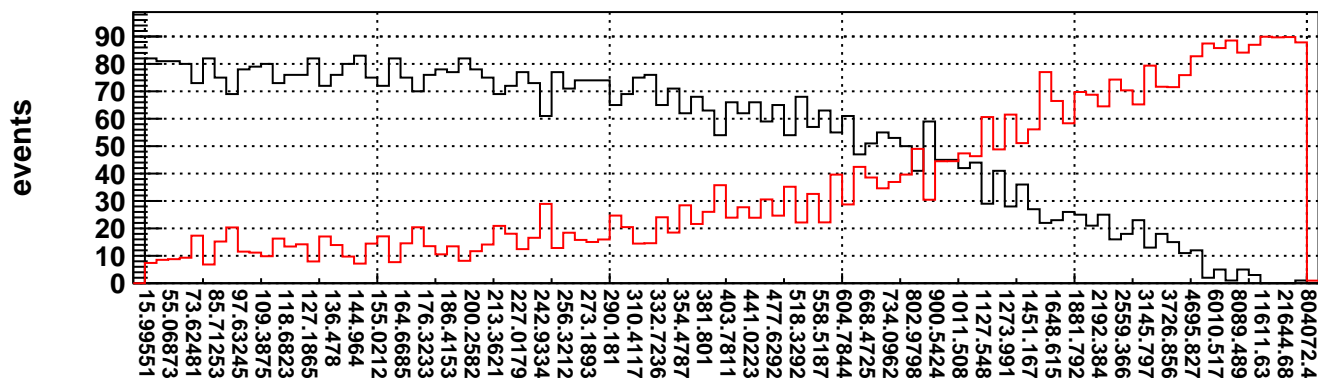
15th most important

added signi. 0.60

signi. loss 0.62

only this 55.41

corr. to others 96.40%



Input node 19 :  $B_0$   
16th most important

added signi. 0.56

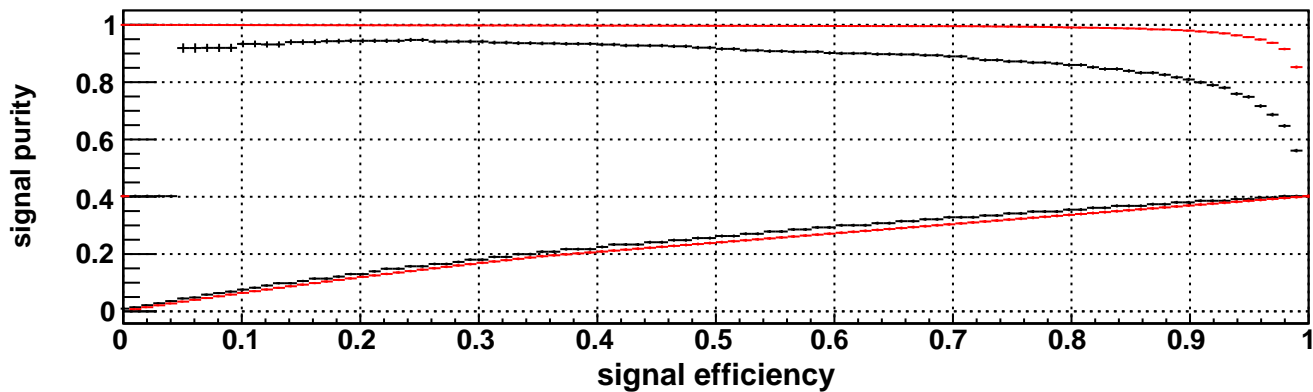
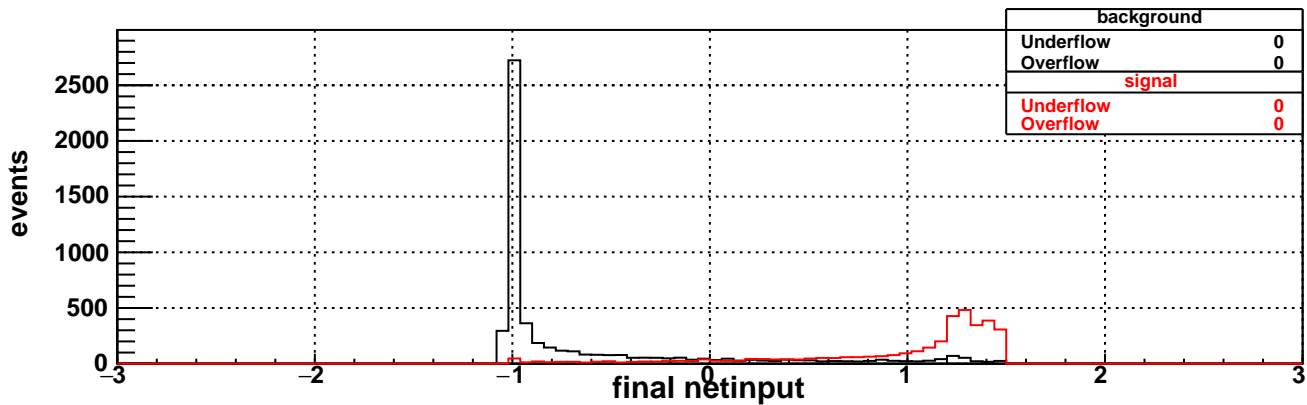
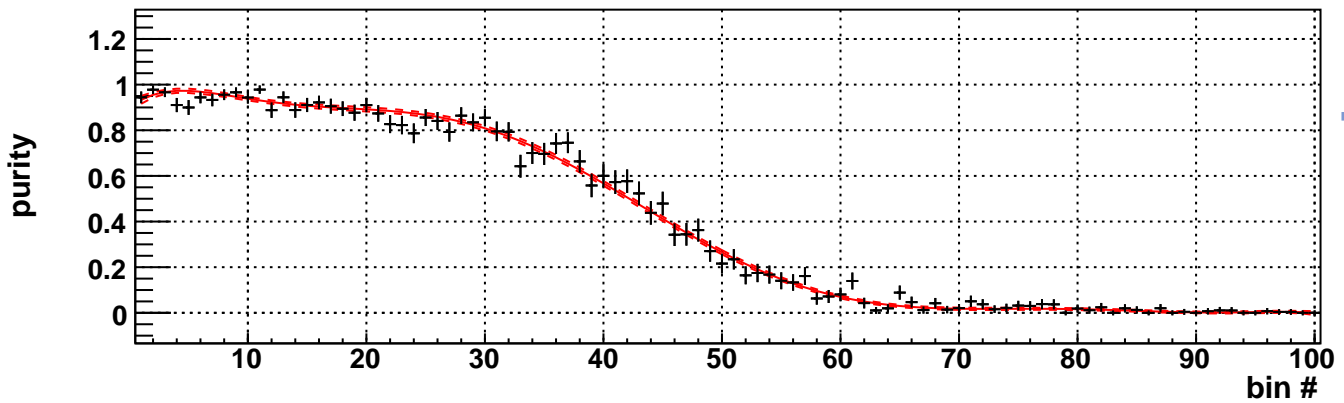
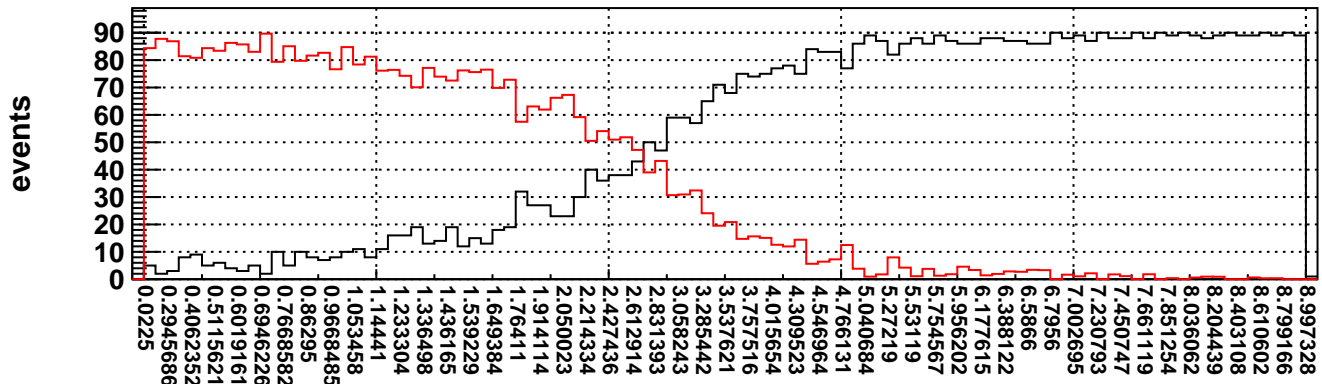
signi. loss 0.61

only this 74.60

corr. to others 94.90%

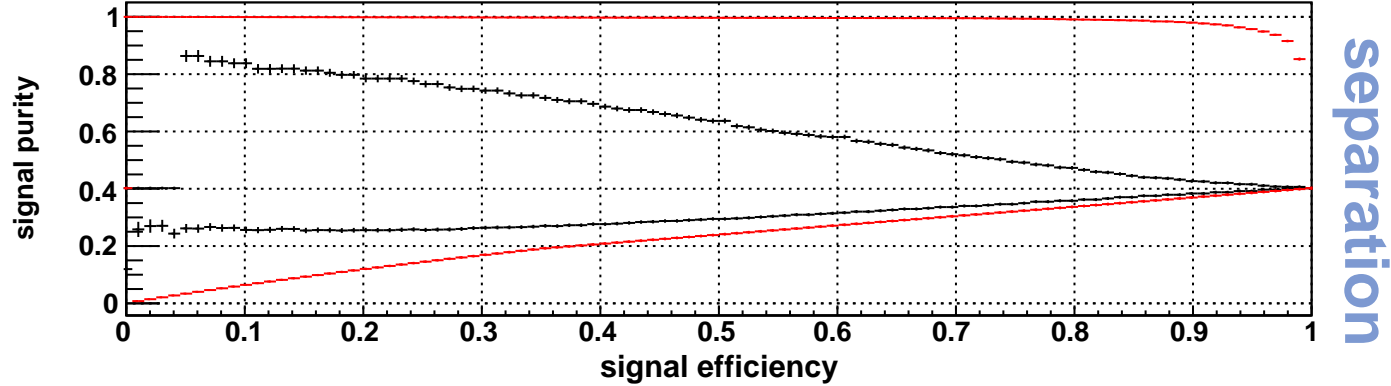
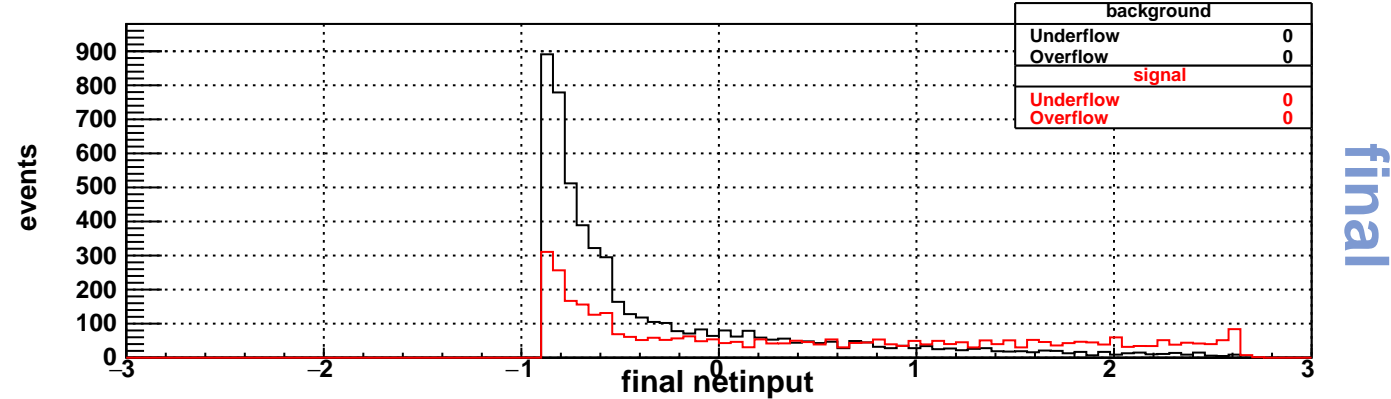
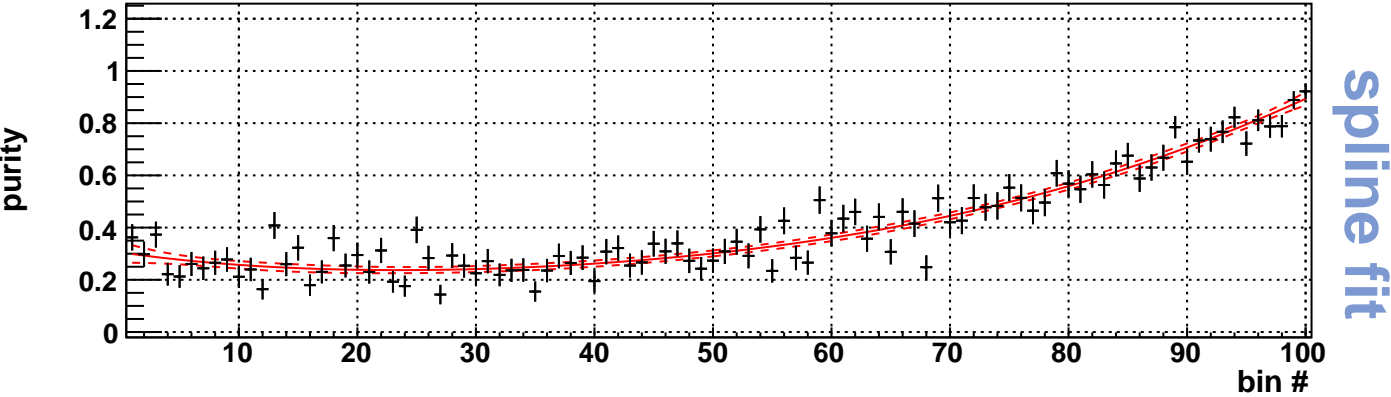
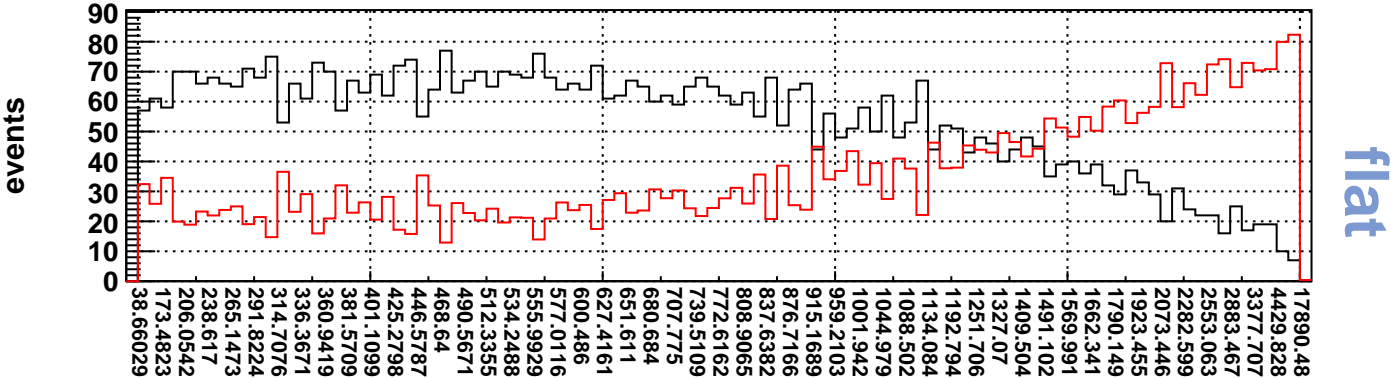
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17th most important  
added signi. 0.55  
signi. loss 0.48

PrePro:  $p_T$  14 #5  
only this 34.94  
corr. to others 89.40%





Input node 17 :  $K^0$

18th most important

added signi. 0.34

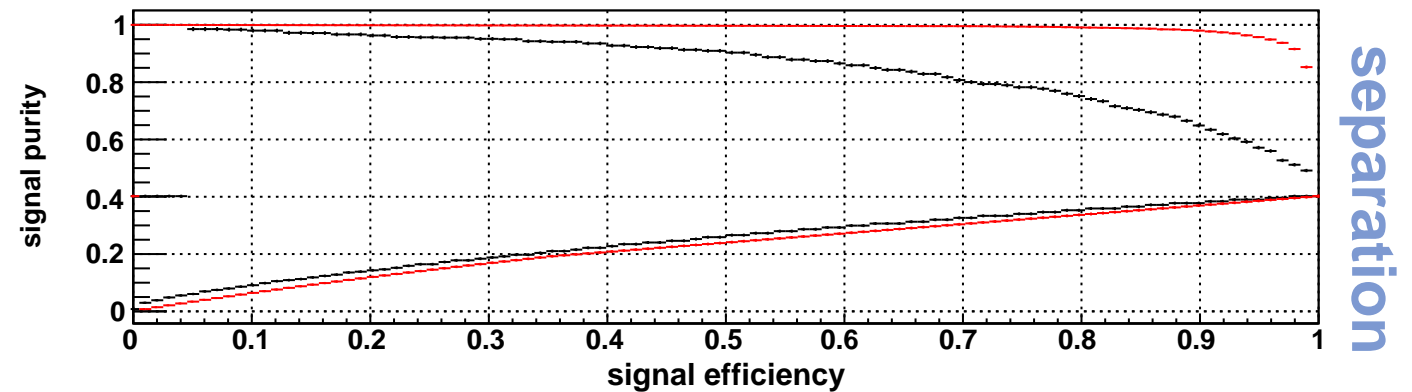
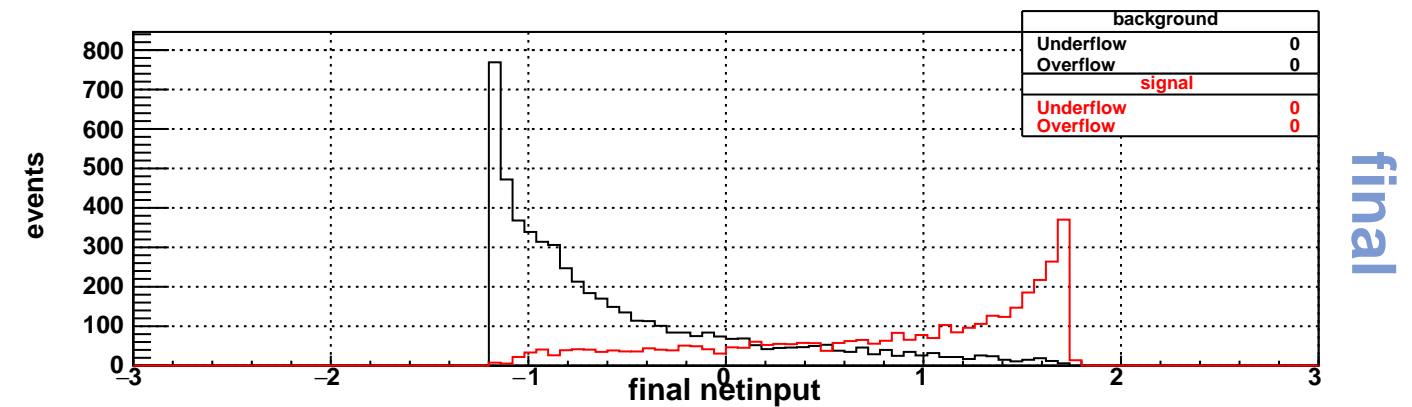
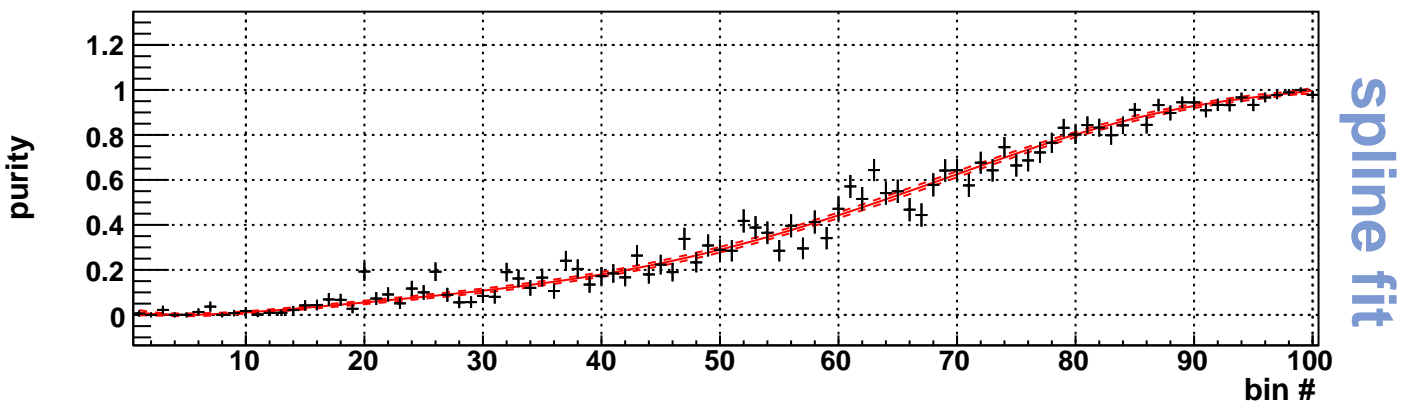
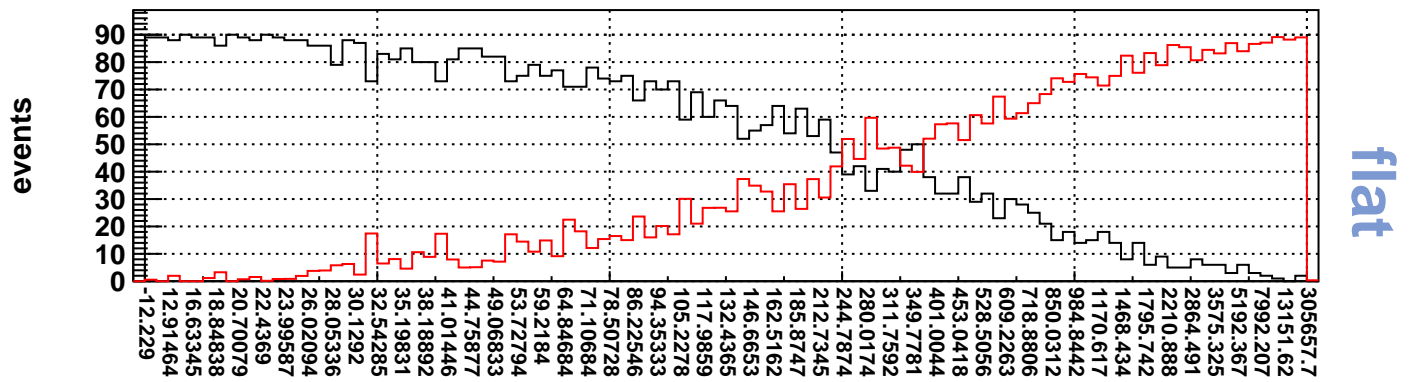
signi. loss 0.41

only this 64.88

corr. to others 97.40%

Phi-T

NeuroBayes® Teacher



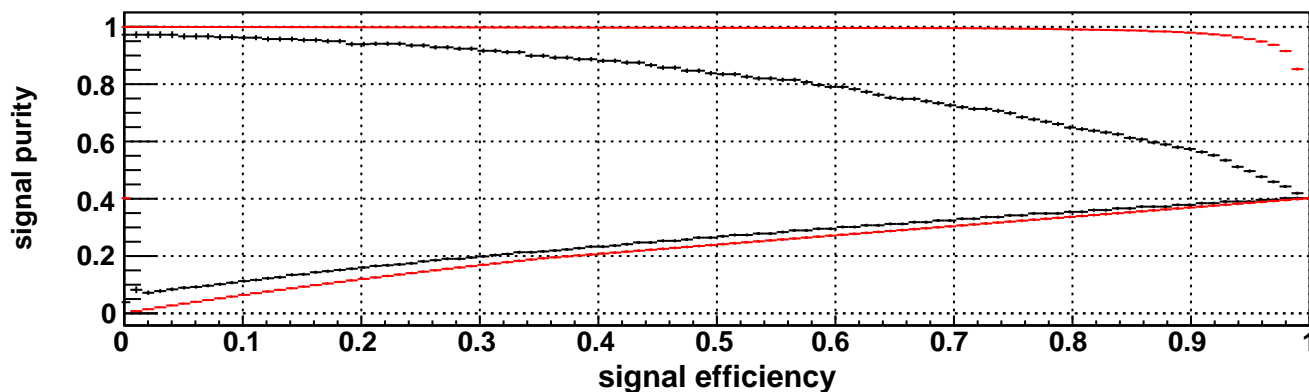
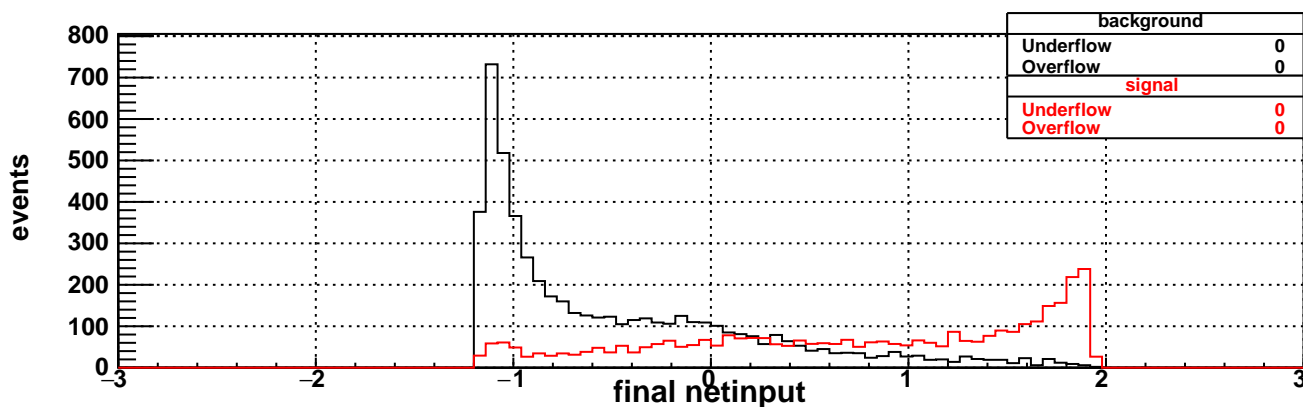
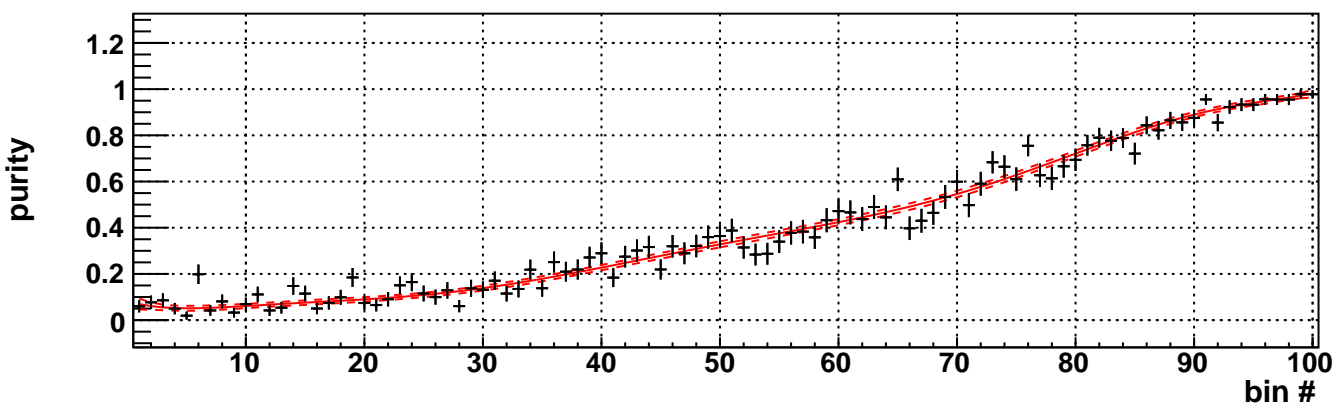
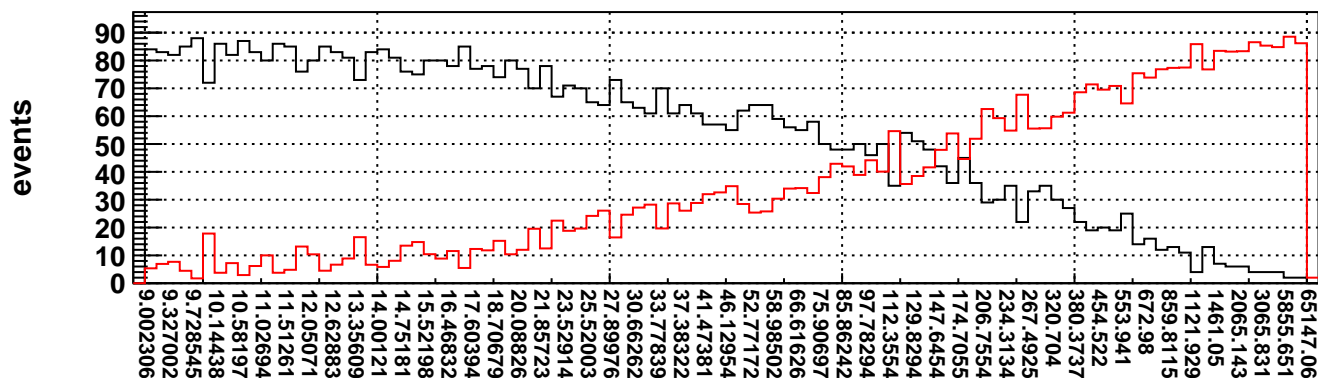
19th most important

added signi. 0.32

signi. loss 0.30

only this 56.92

corr. to others 92.20%



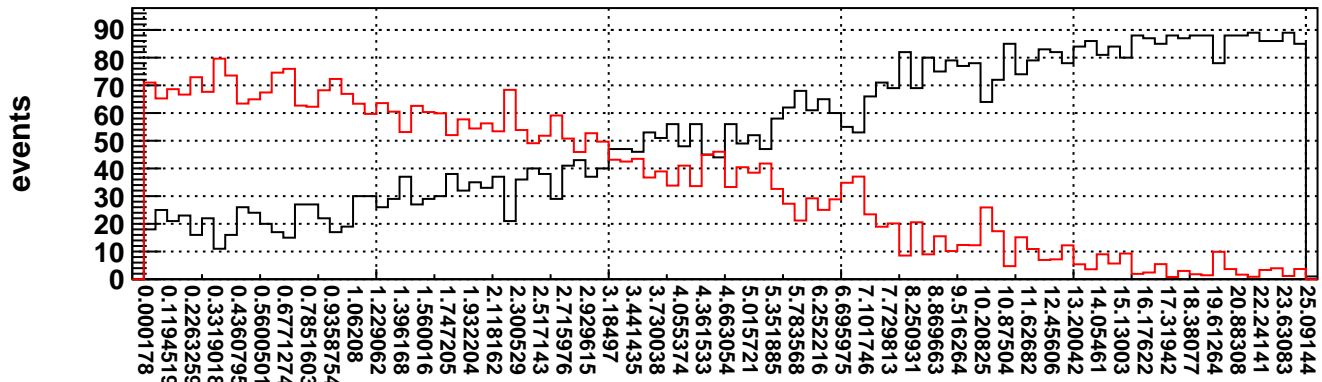
Input node 9 :  $B_0$   
20th most important

added signi. 0.30

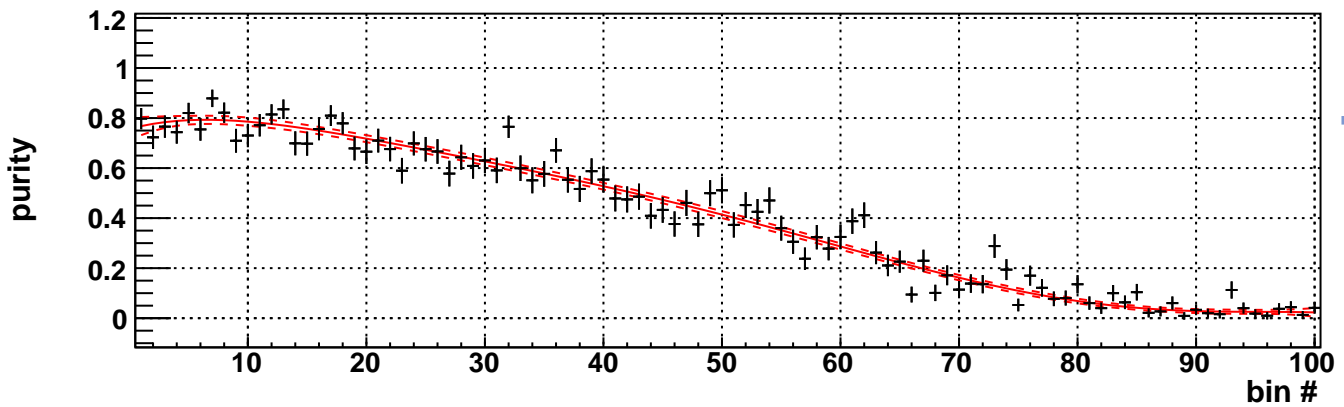
signi. loss 0.30

only this 52.17

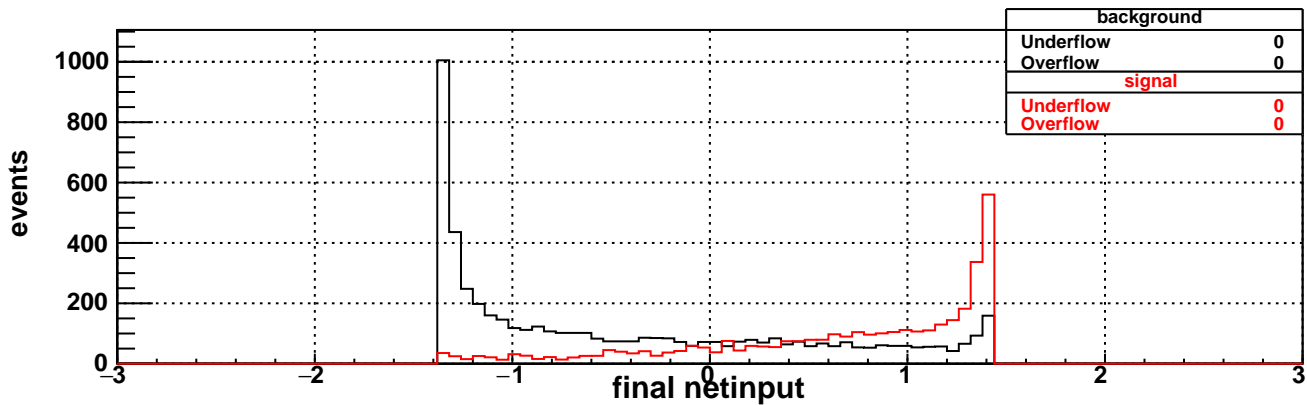
corr. to others 82.00%



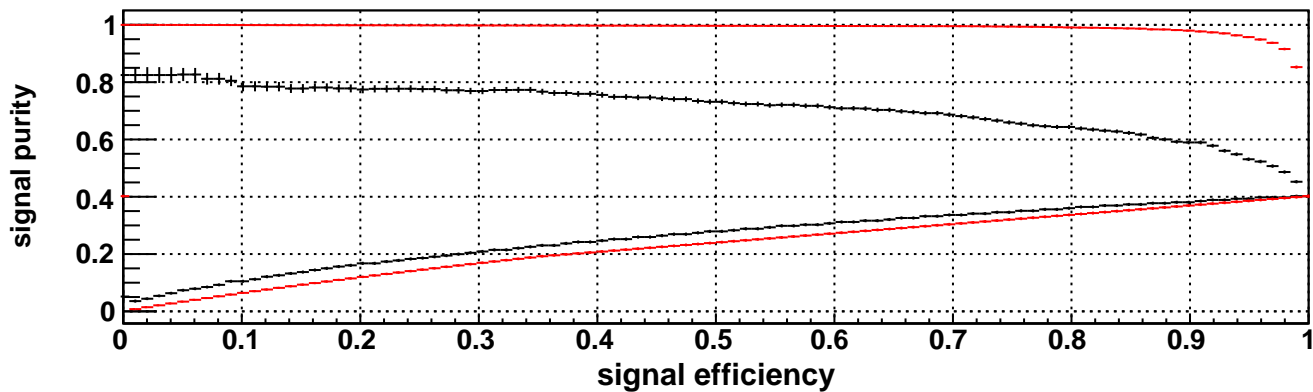
flat



spline fit



final



separation

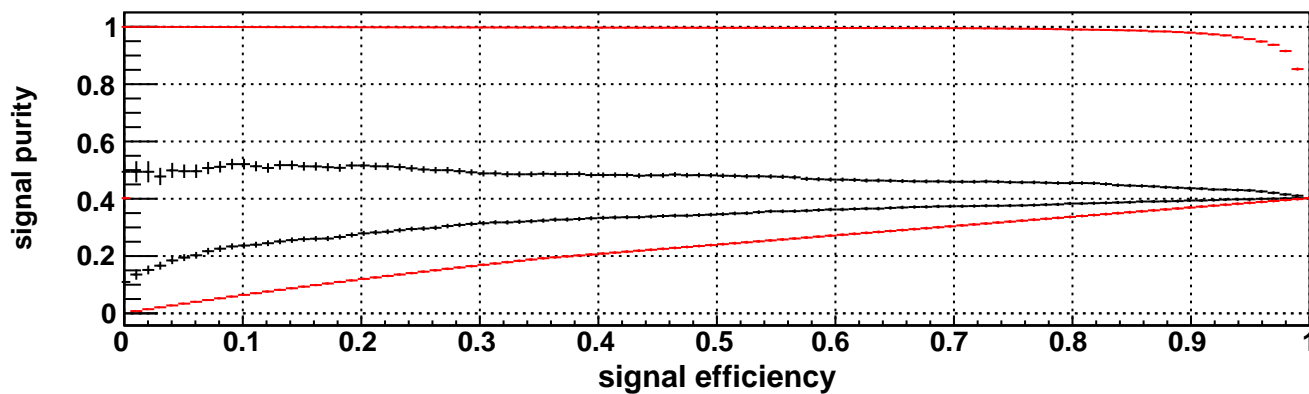
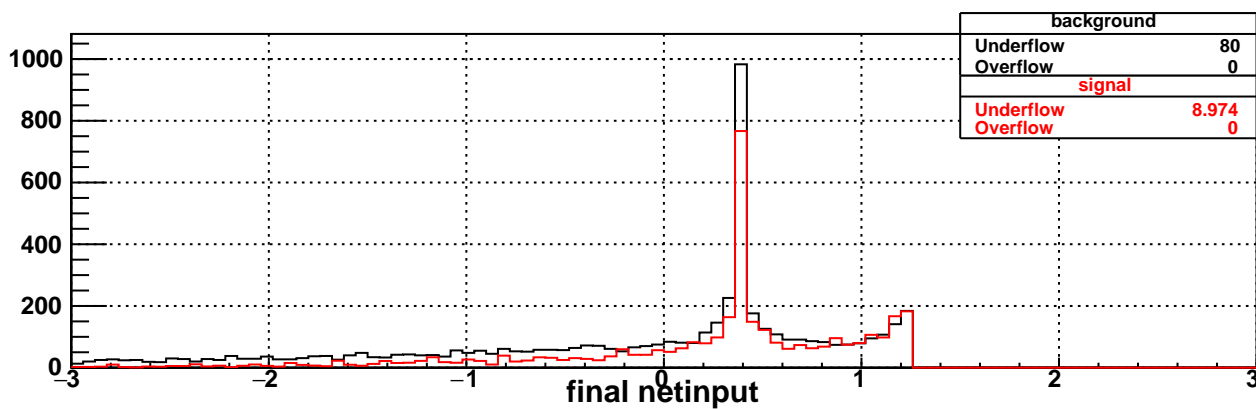
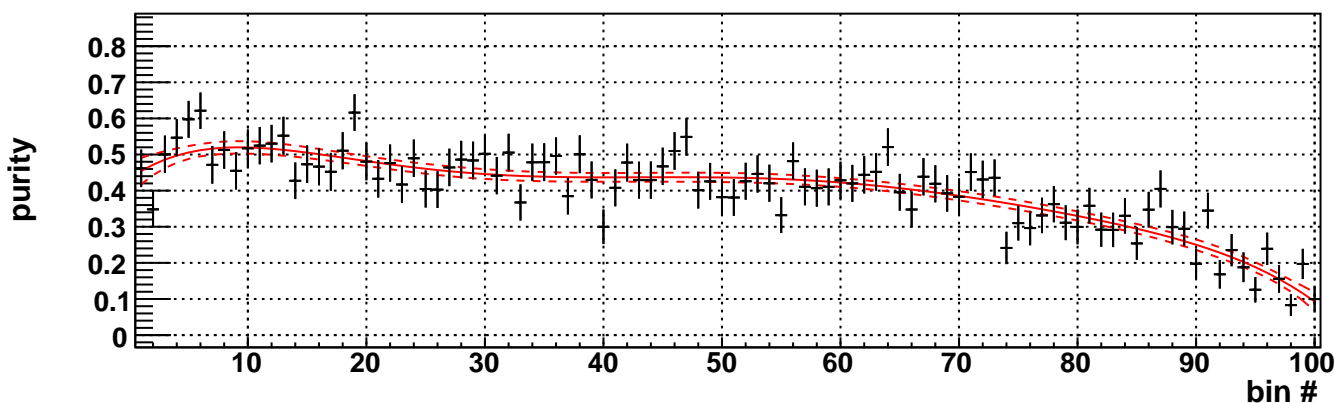
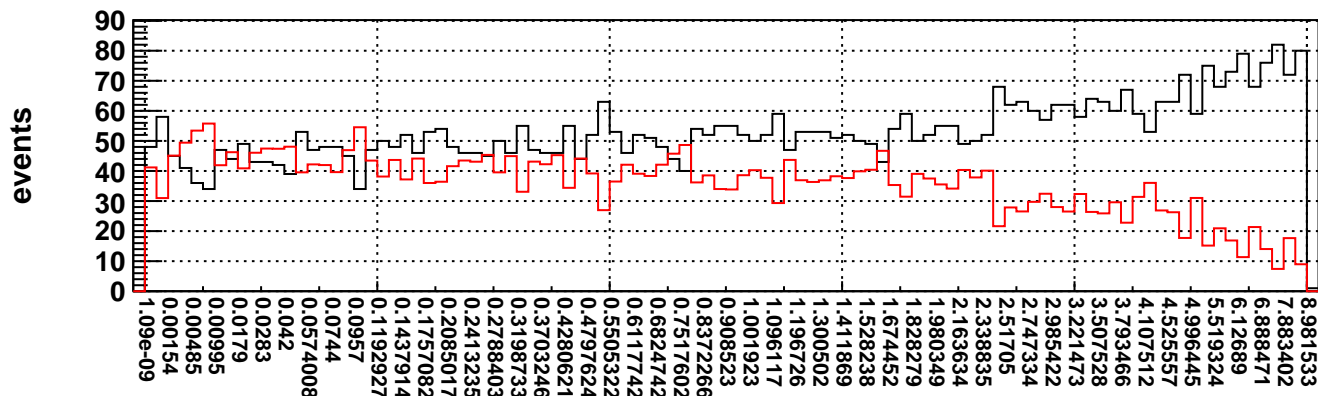
21st most important

added signi. 0.07

signi. loss 0.07

only this 18.35

corr. to others 27.80%



Input node 4 : K

22nd most important

added signi. 0.03

signi. loss 0.03

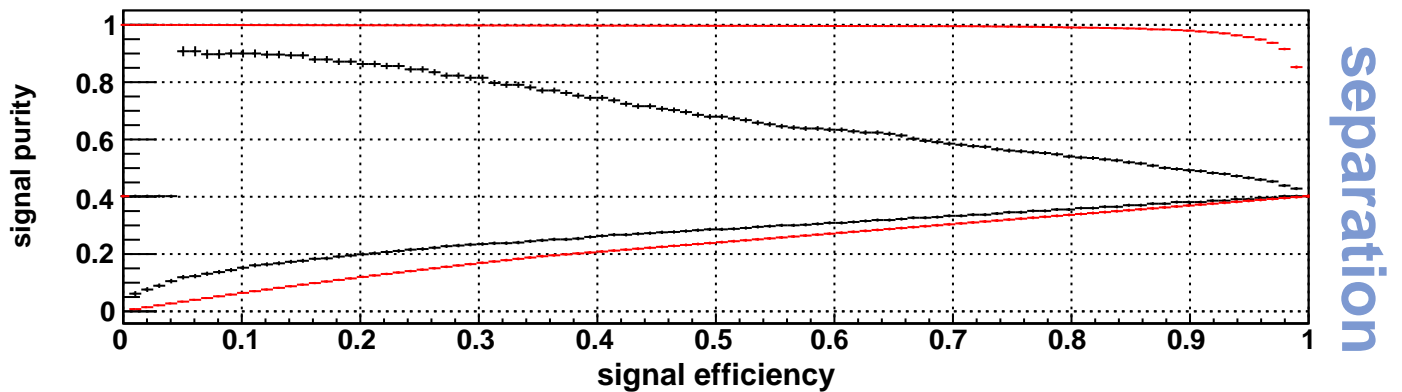
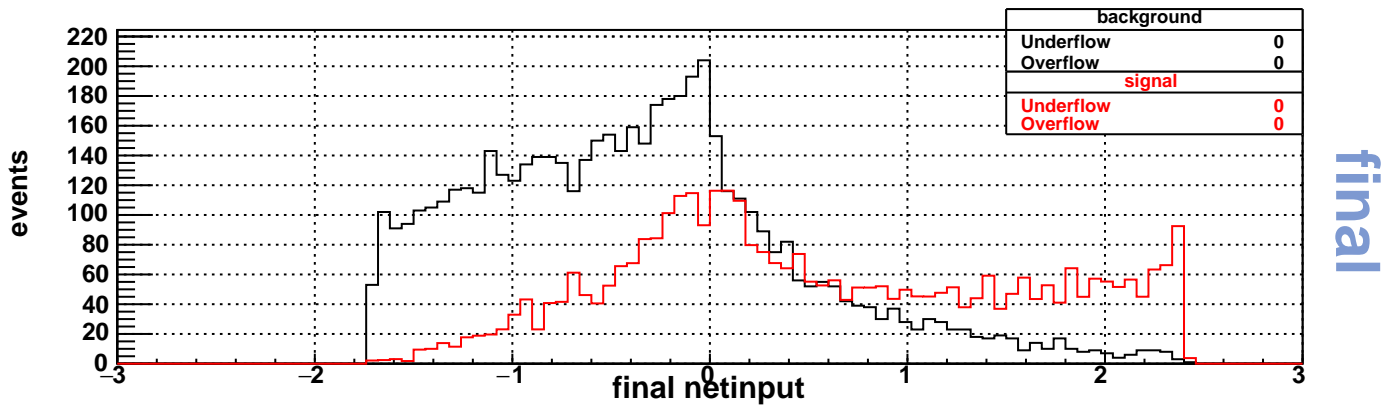
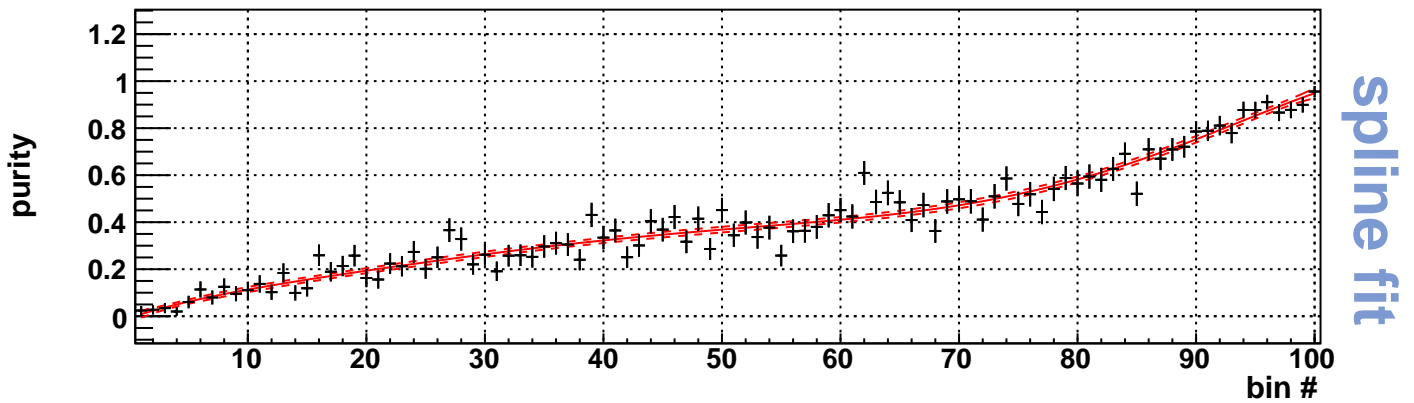
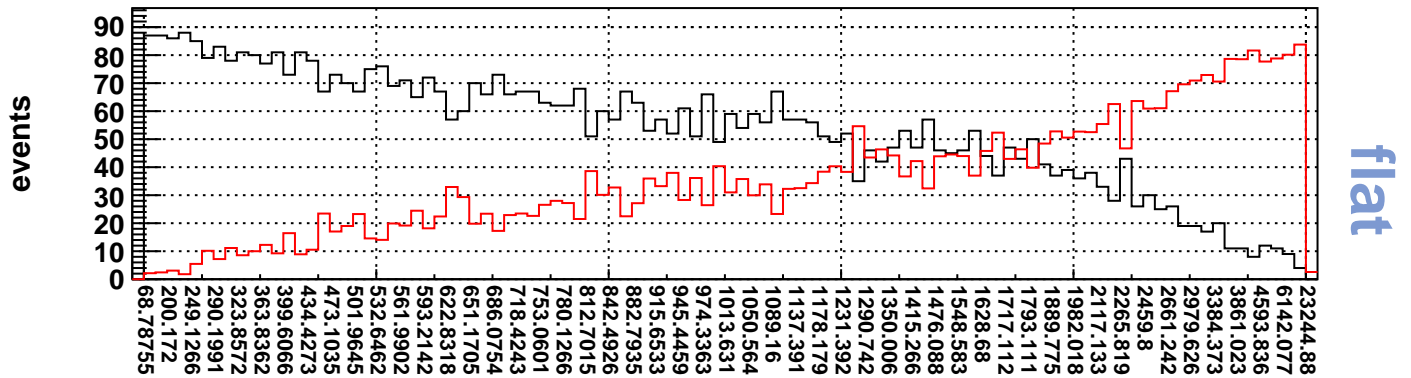
PrePro:  $p_T$  14 #4

only this 43.58

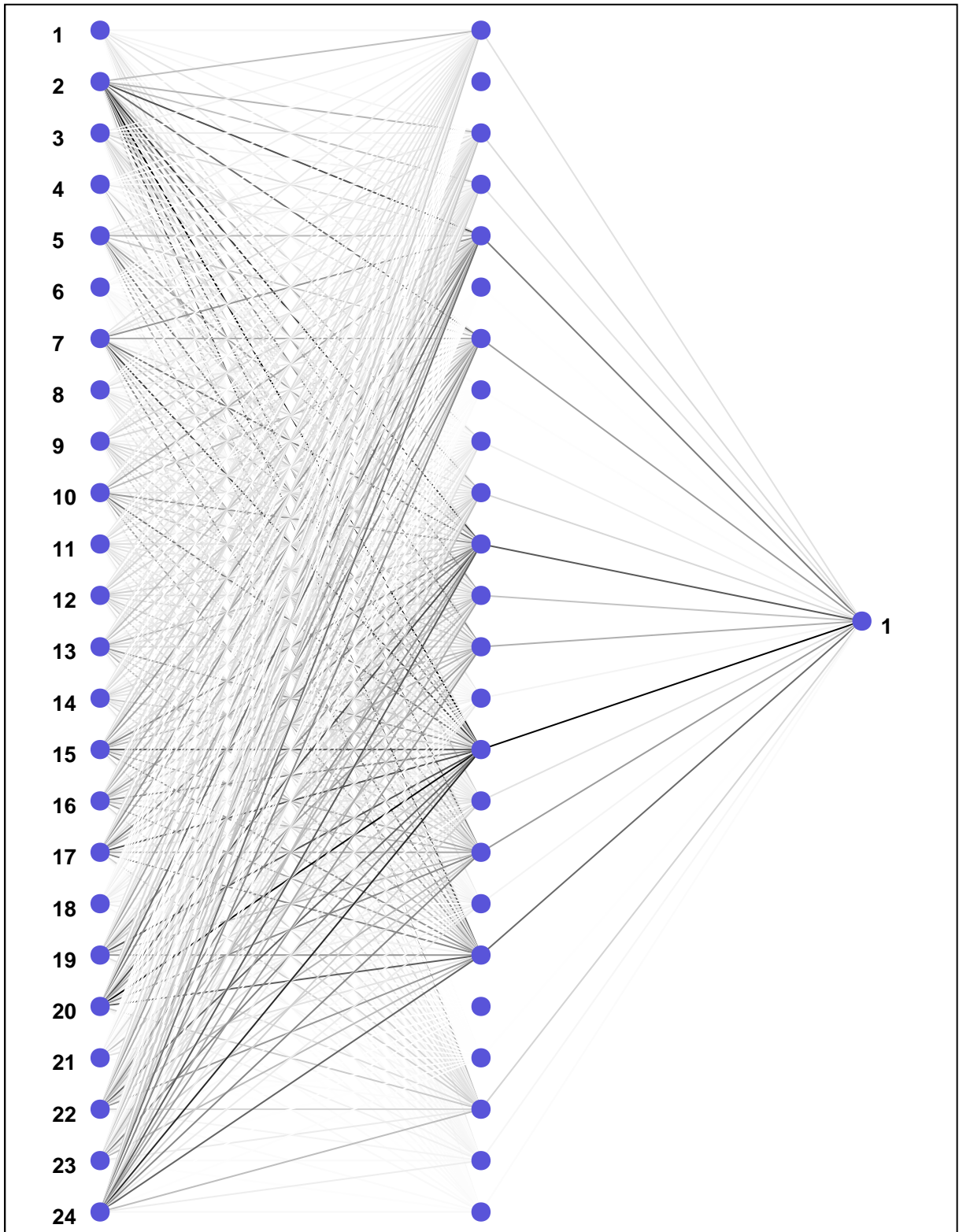
corr. to others 95.40%

Phi-T

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## Network at iteration 1000



input layer

hidden layer

output layer