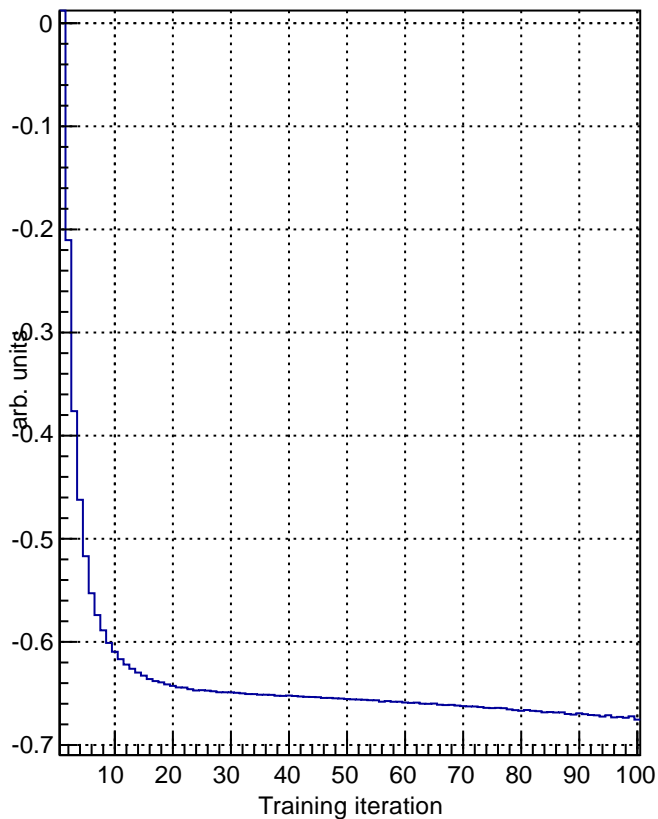
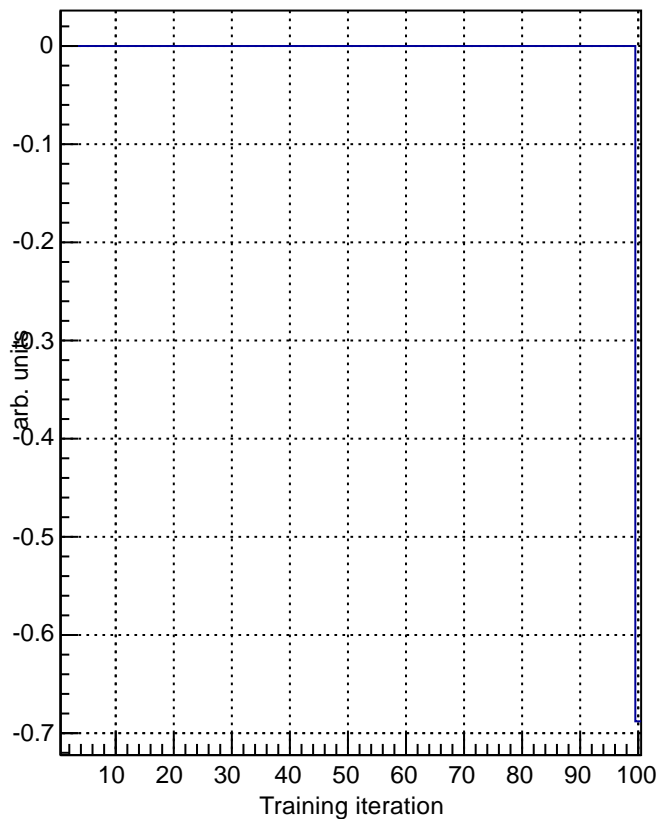


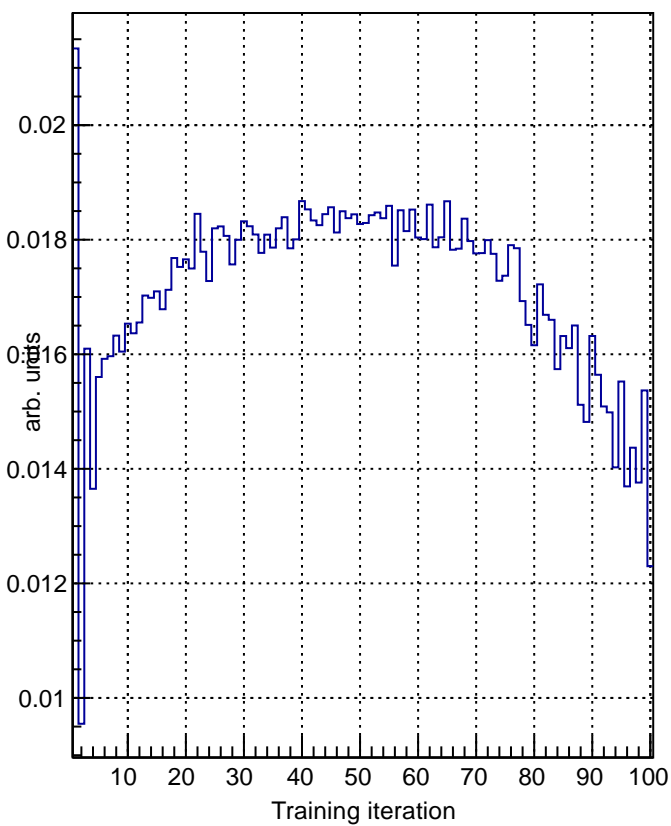
## Error



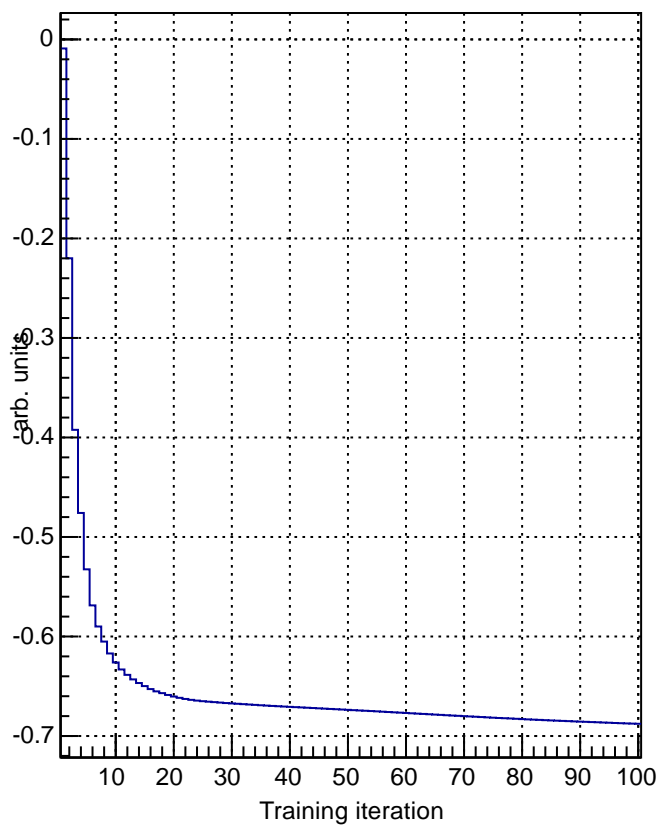
## Error Testsample



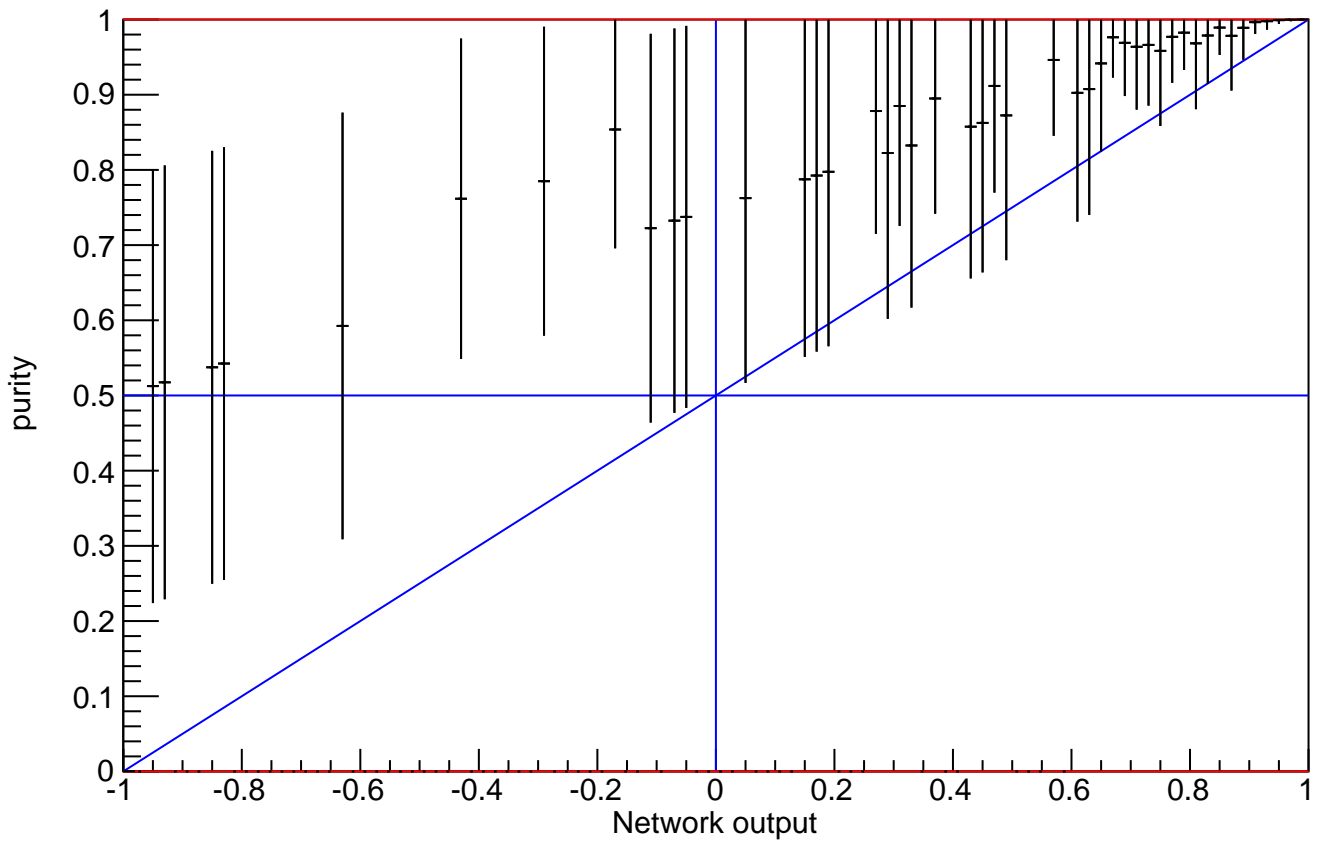
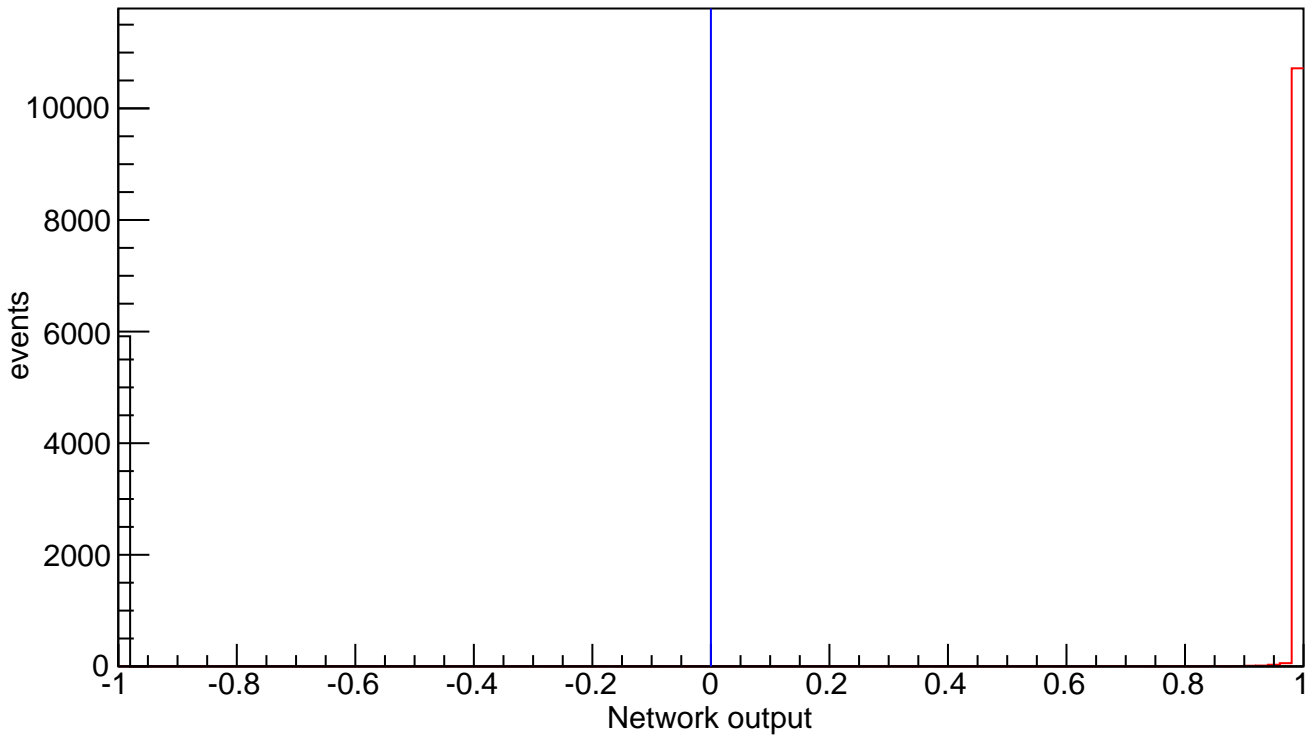
## regularisation param. \* weights

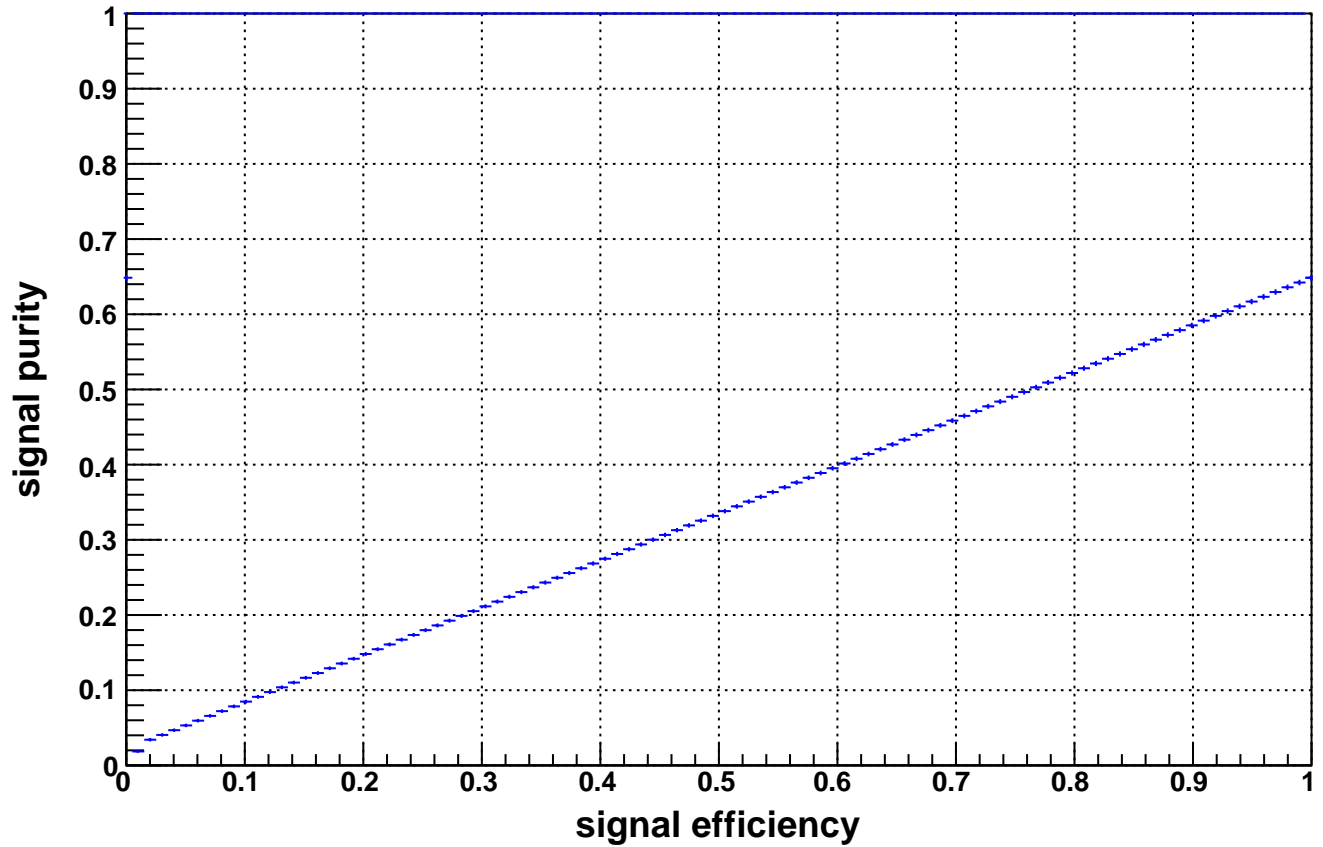


## Err-Weight Learnsample

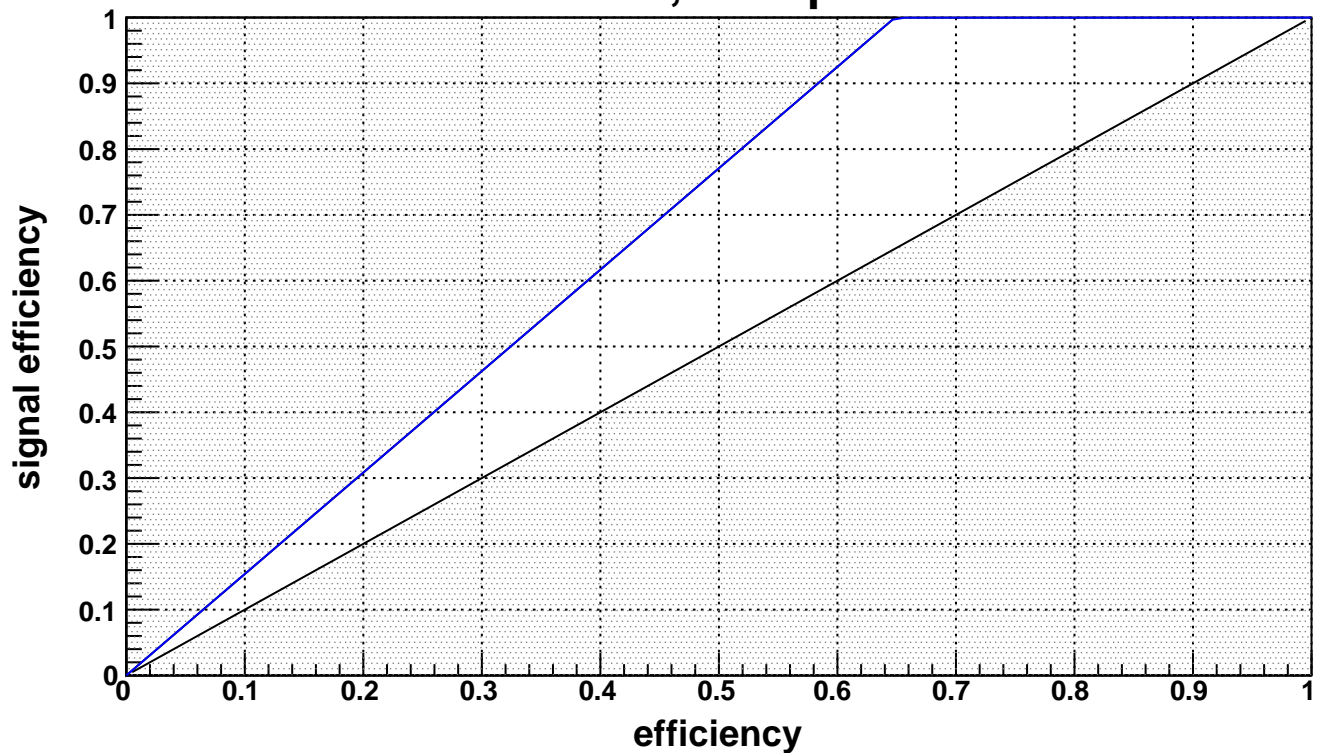


Output Node 1 (n = 16835 s = 10919 b = 5916  $p_{\text{sig}} = 0.6486$ )

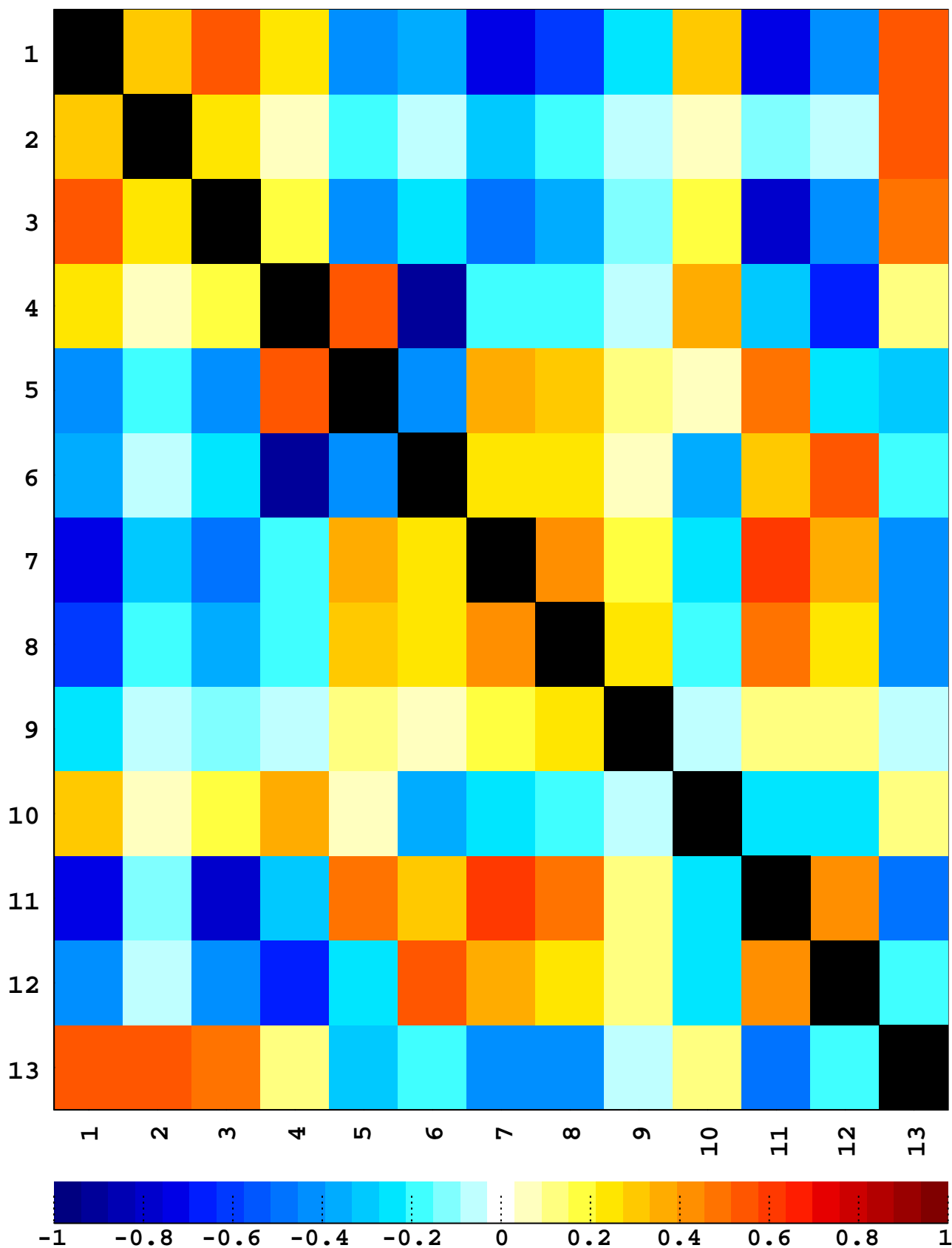




**Gini index = 36.1%, max possible = 35.1%**



## correlation matrix of input variables



**signi. loss 18.23**

**corr. to others 90.30%**

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Input node 6 : jeta1eta2

2nd most important

added signi. 79.75

signi. loss 17.82

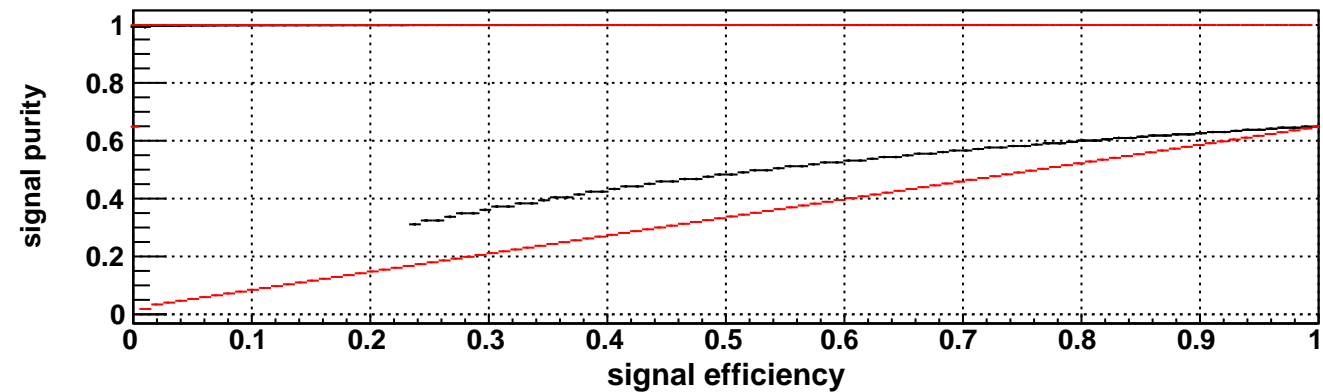
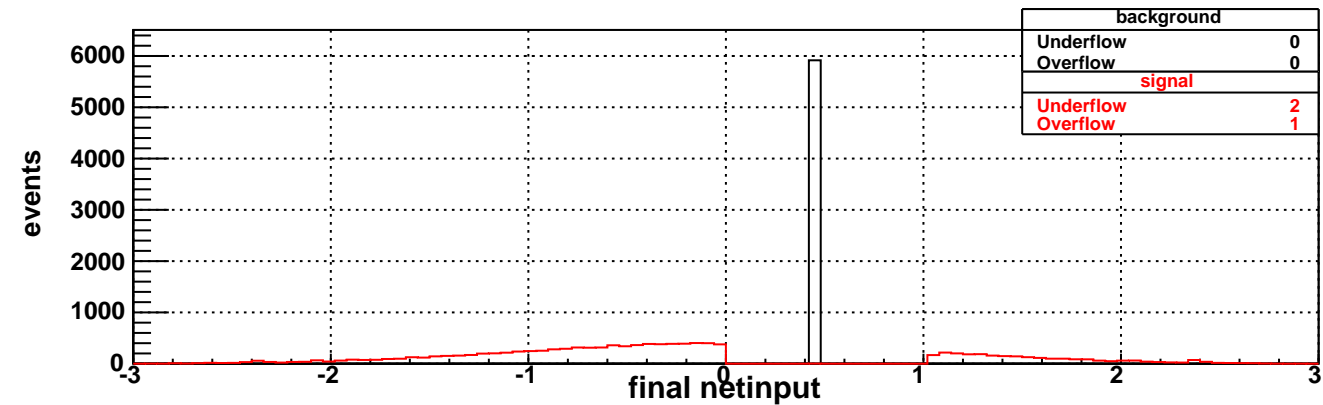
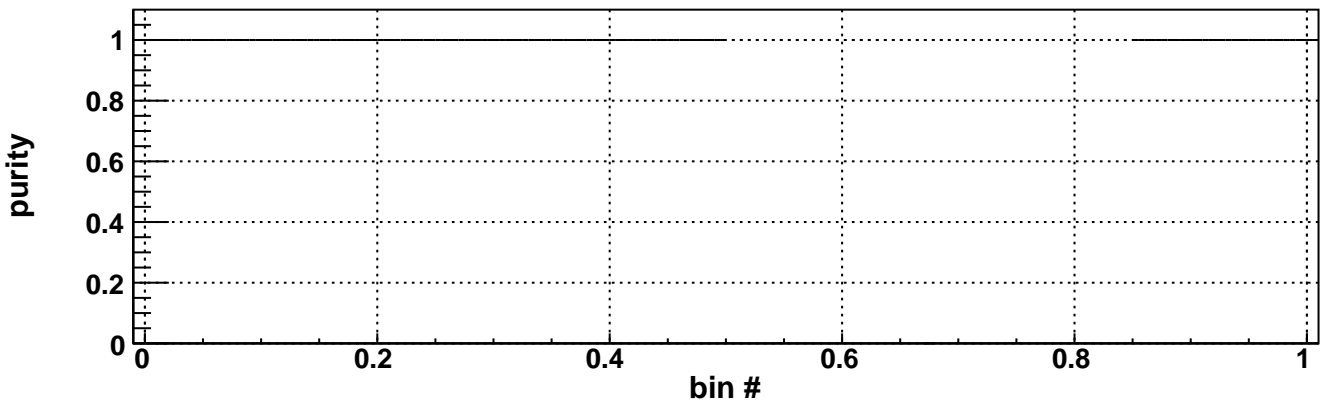
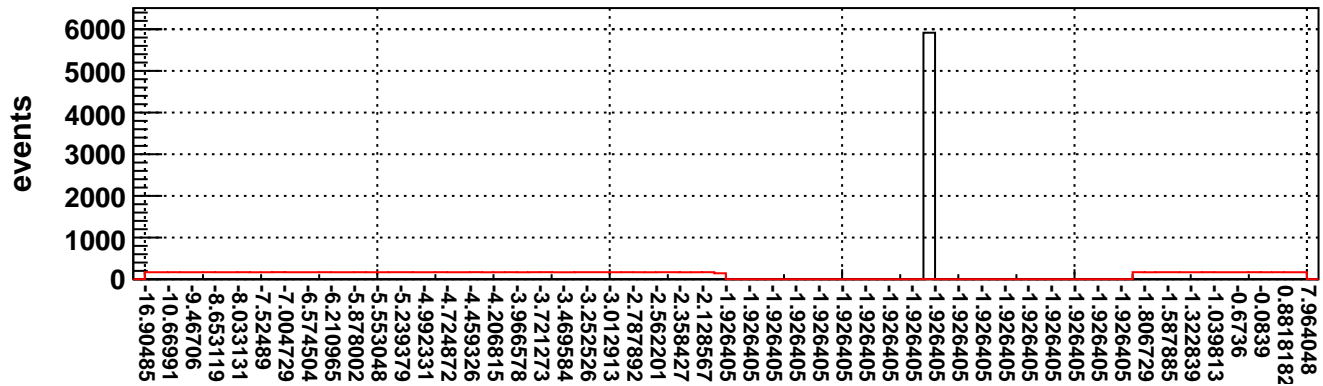
PrePro: 12 #6

only this 44.54

corr. to others 90.70%

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Input node 7 : pt\_tot

3rd most important

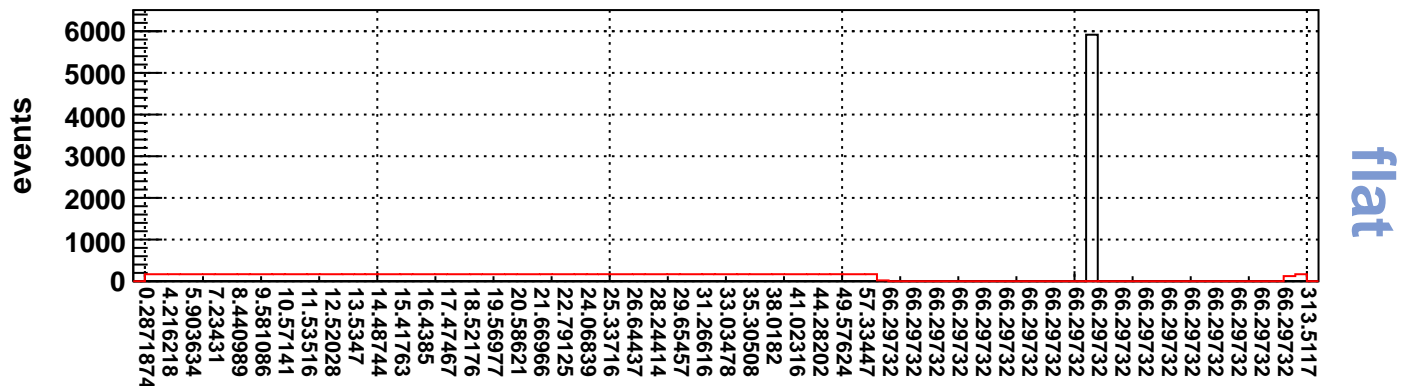
added signi. 40.82

signi. loss 23.51

PrePro: 12 #7

only this 93.27

corr. to others 68.90%



Input node 8 : met centrality

4th most important

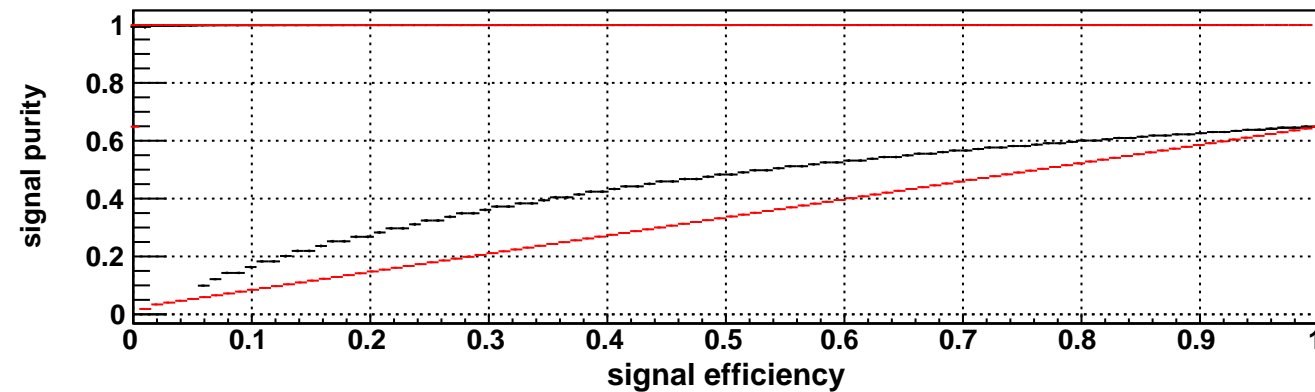
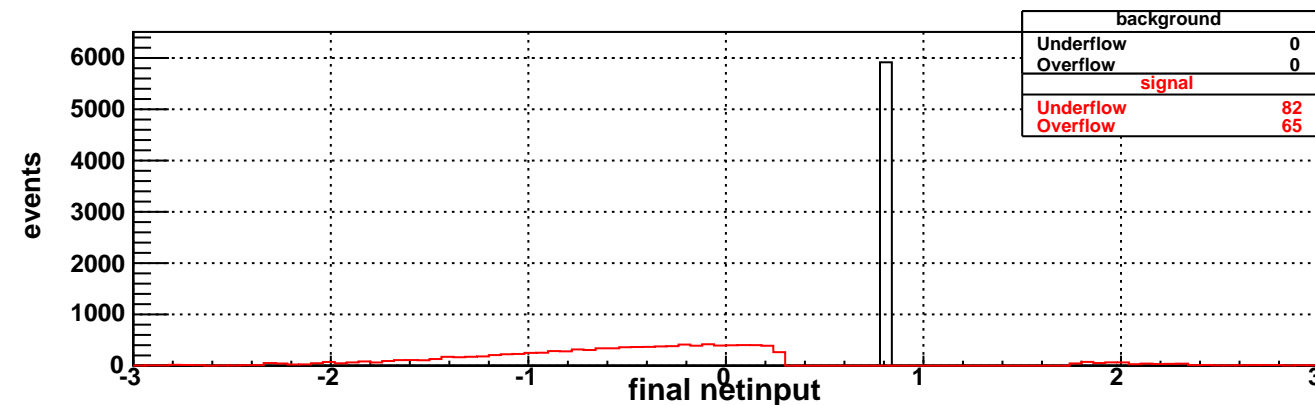
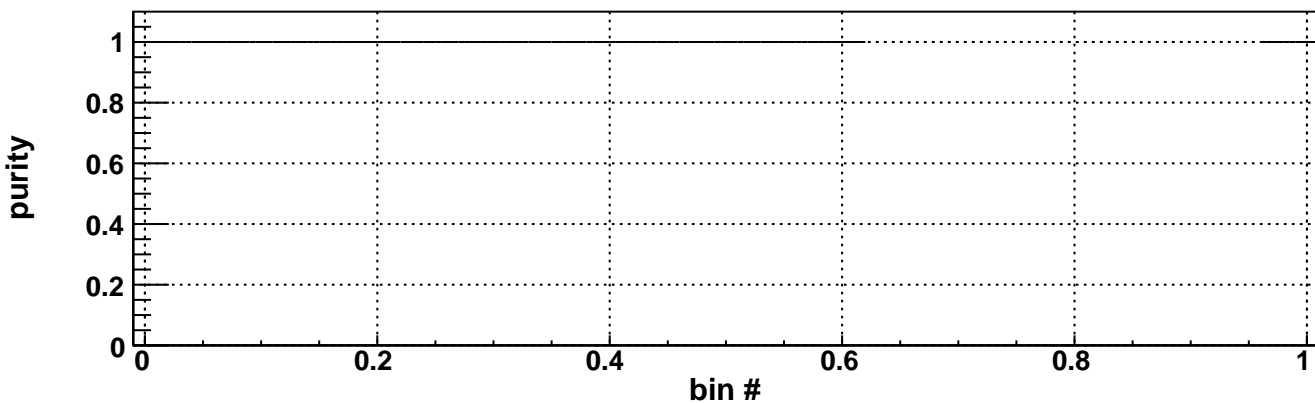
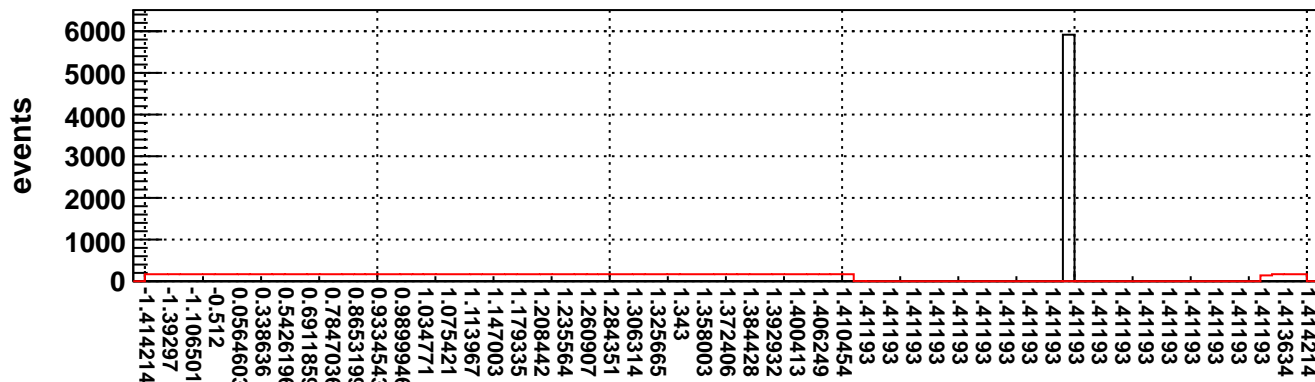
added signi. 30.60

signi. loss 21.88

PrePro: 12 #8

only this 81.03

corr. to others 58.90%





Input node 12 : sphericity

5th most important

added signi. 21.41

signi. loss 21.97

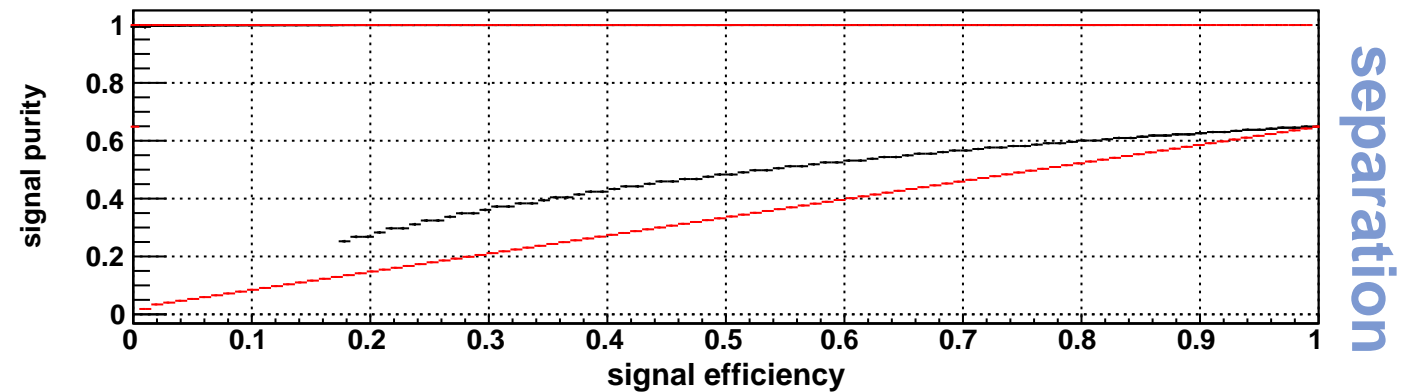
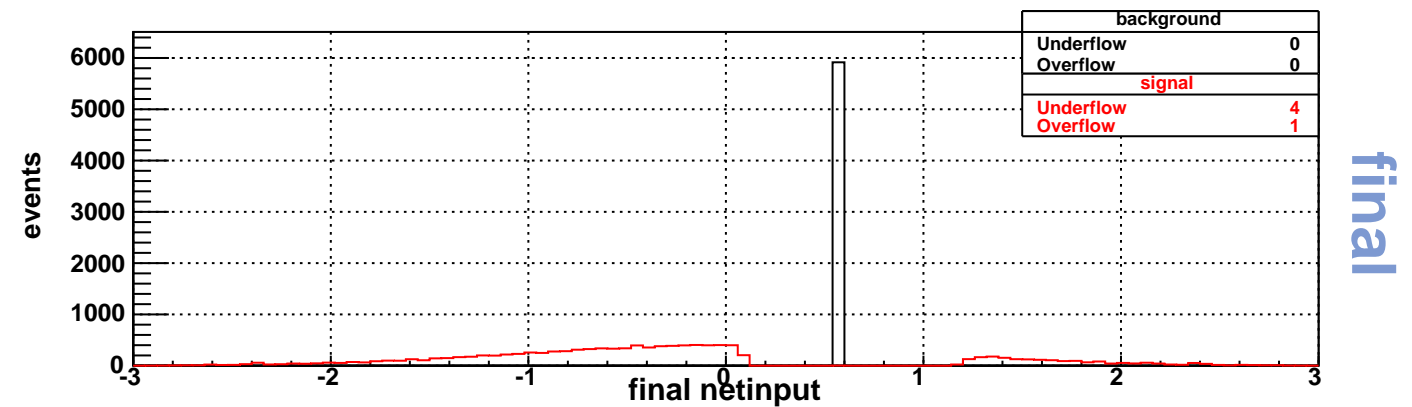
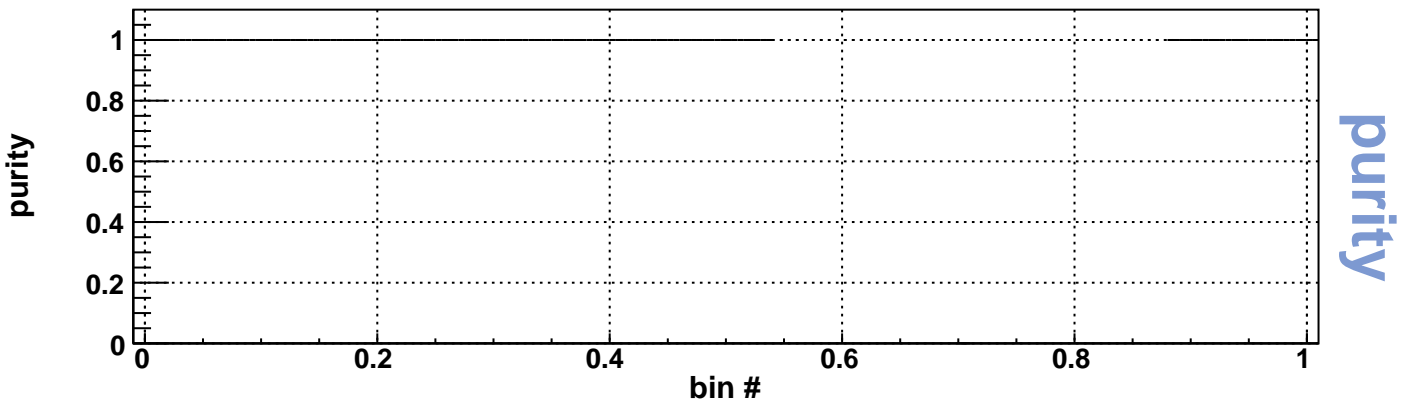
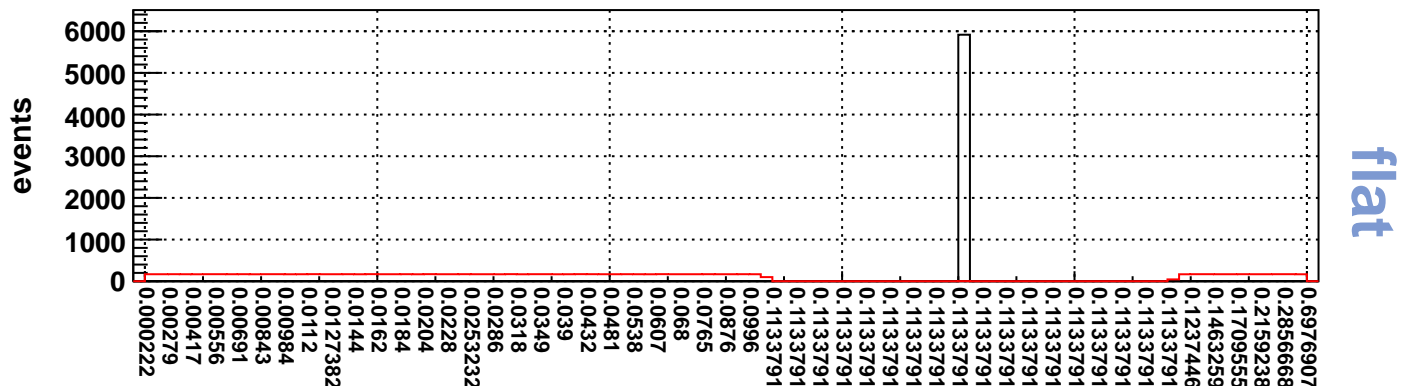
PrePro: 12 #12

only this 55.91

corr. to others 77.00%

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**PrePro: 12 #13**

**only this 71.03**

**corr. to others 71.60%**



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**PrePro: 12 #3**

**only this 69.03**

**corr. to others 82.90%**



background	
Underflow	0
Overflow	0
signal	
Underflow	4
Overflow	1

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**PrePro: 12 #11**

**only this 93.48**

**corr. to others 92.10%**



Input node 4 : jdeta

9th most important

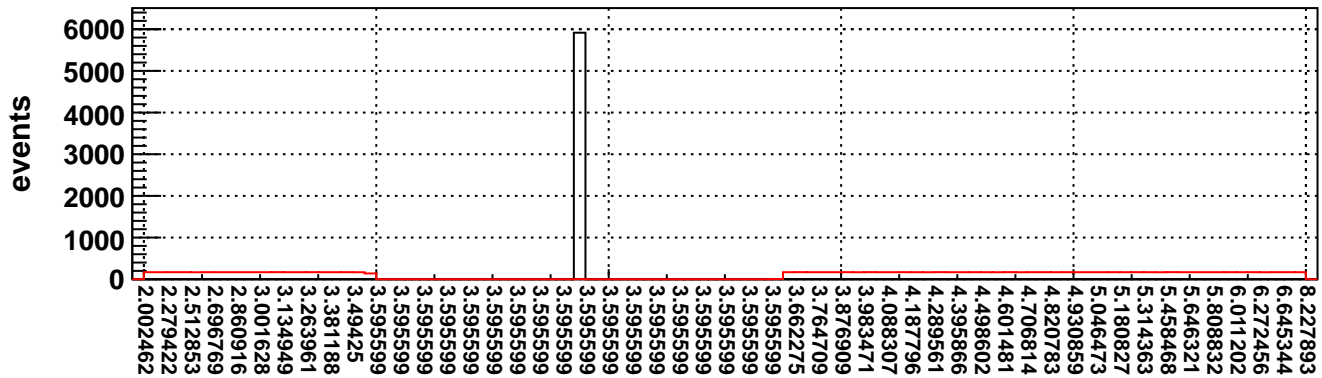
added signi. 8.13

signi. loss 8.69

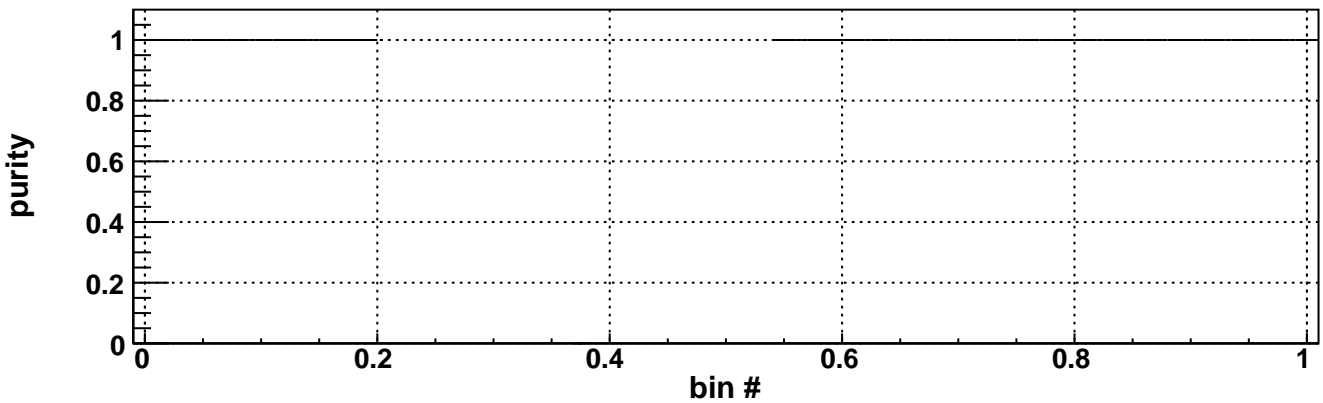
PrePro: 12 #4

only this 32.27

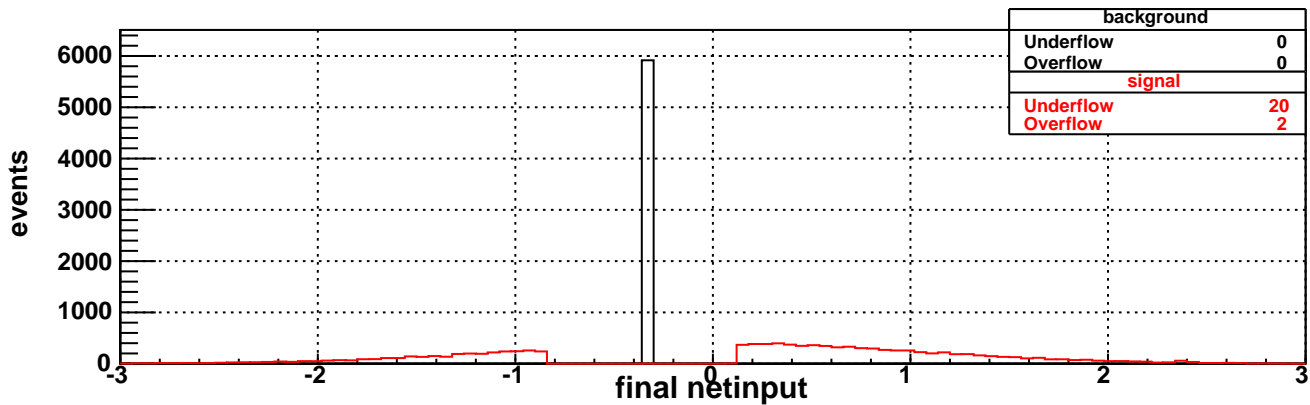
corr. to others 93.50%



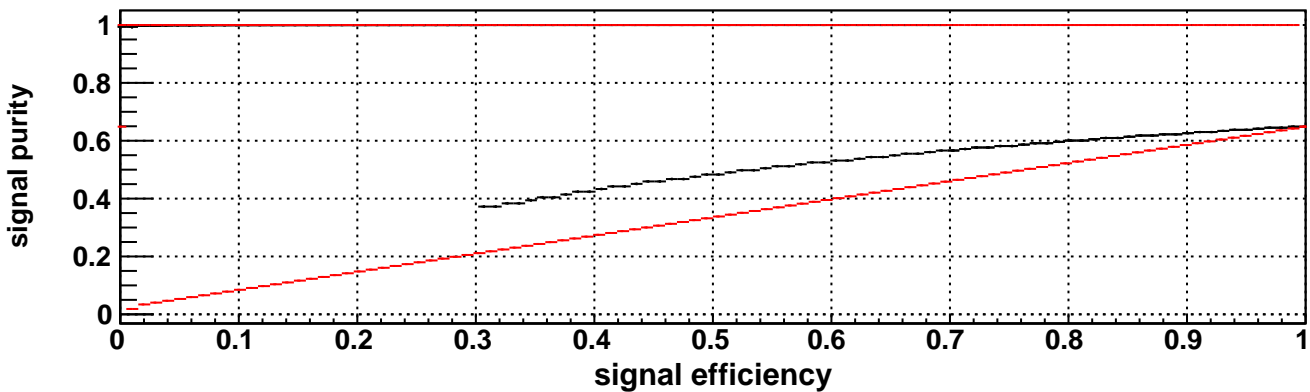
flat



purity



final



separation

Input node 2 : svfit\_mass

10th most important

added signi. 7.63

signi. loss 7.52

PrePro: 12 #2

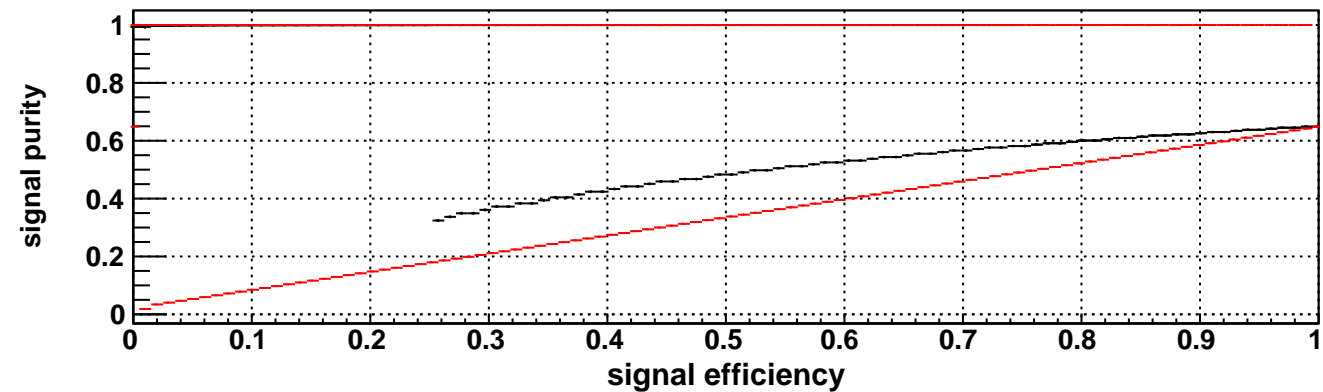
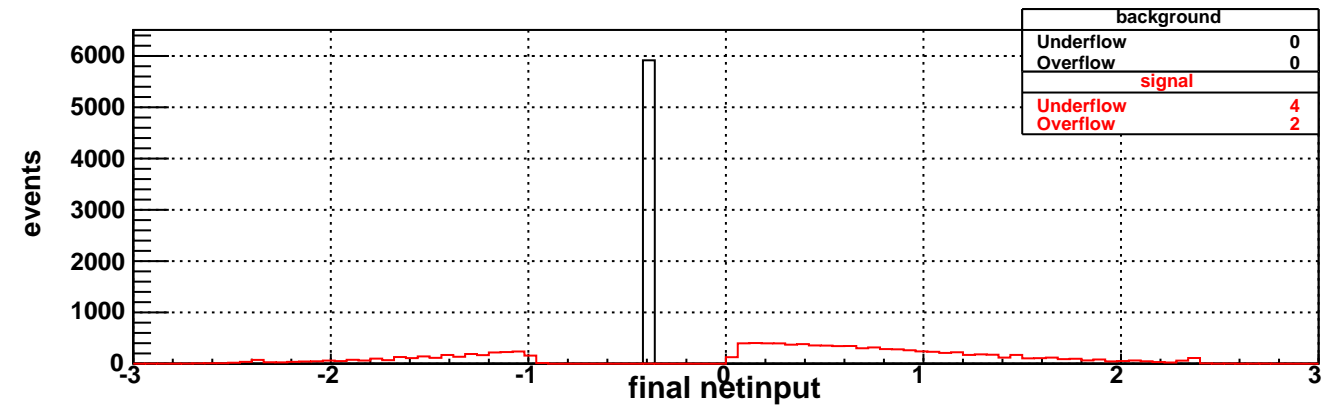
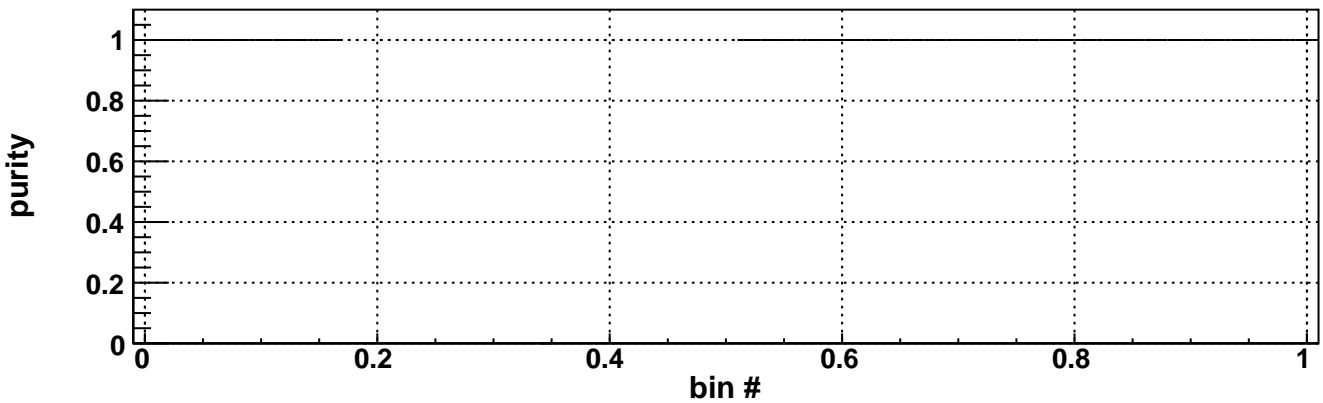
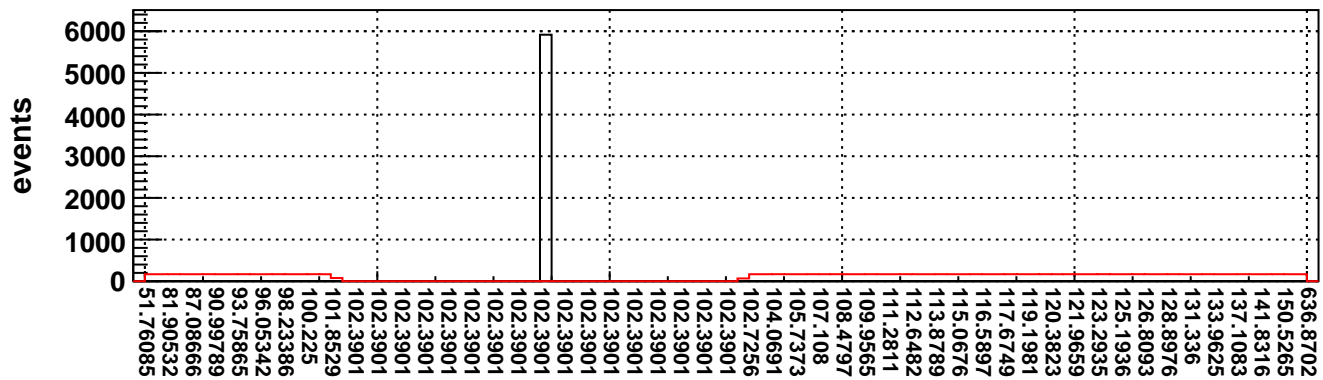
only this 41.19

corr. to others 64.30%



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**PrePro: 12 #10**

**only this 38.14**

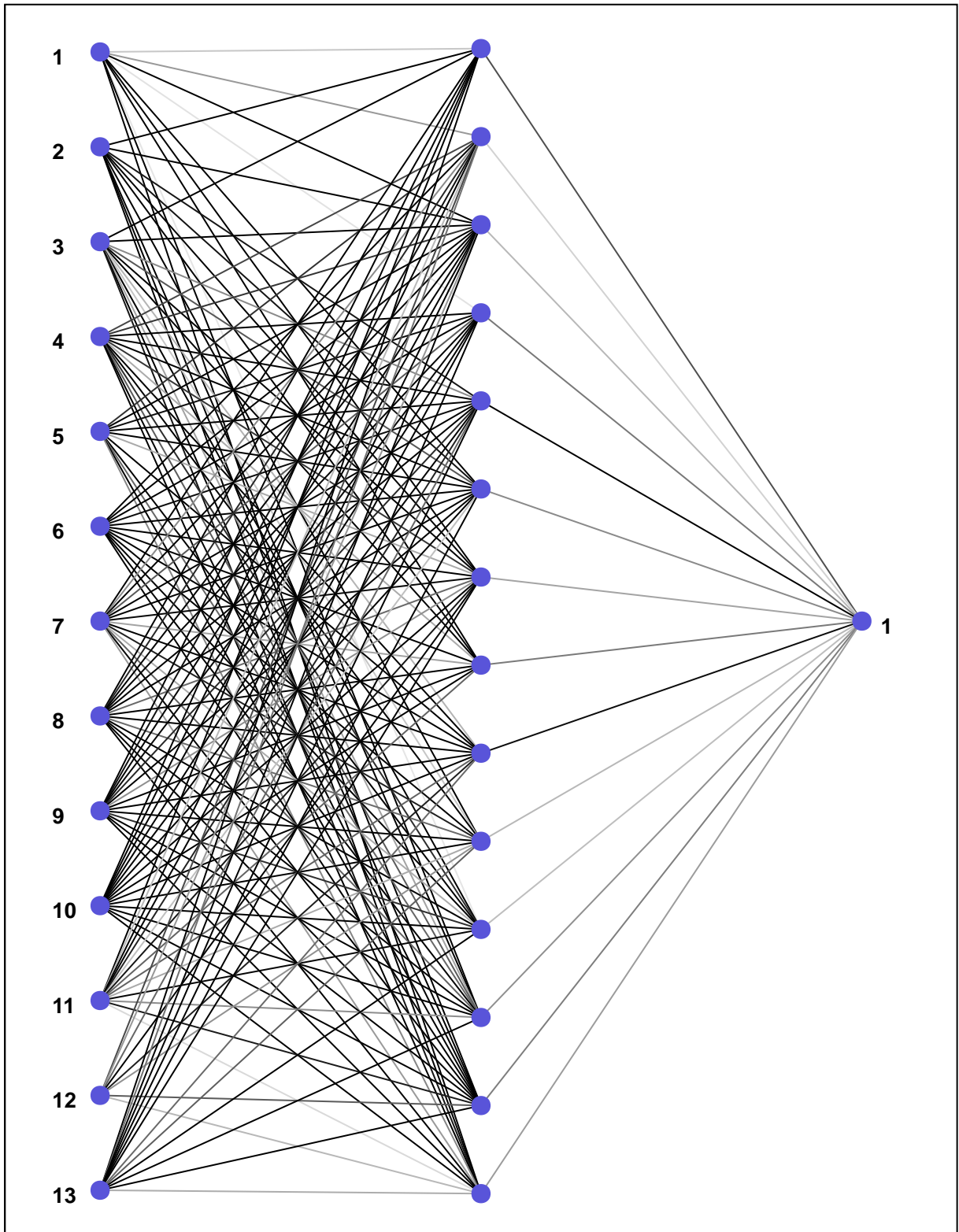
**corr. to others 41.70%**







## Network at iteration 100



input layer

hidden layer

output layer