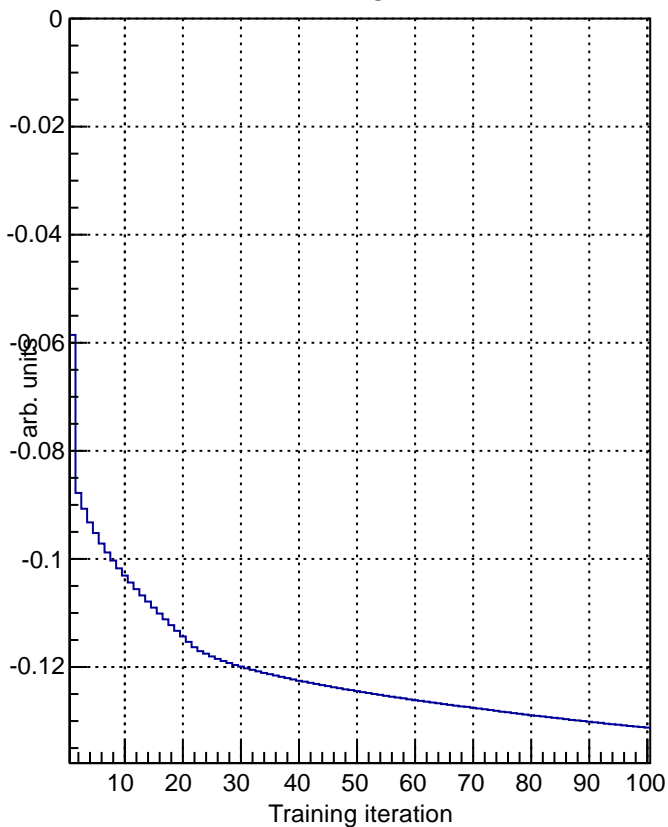
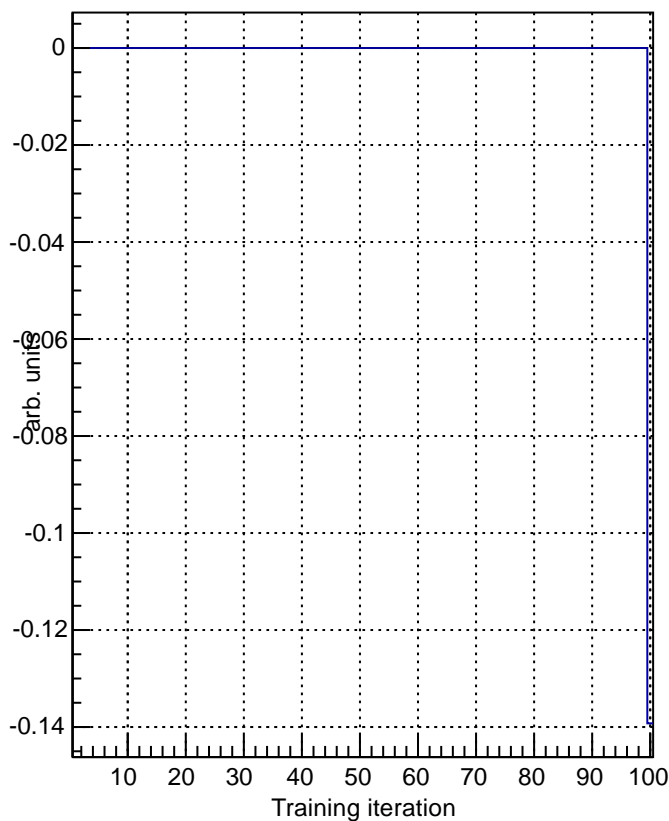


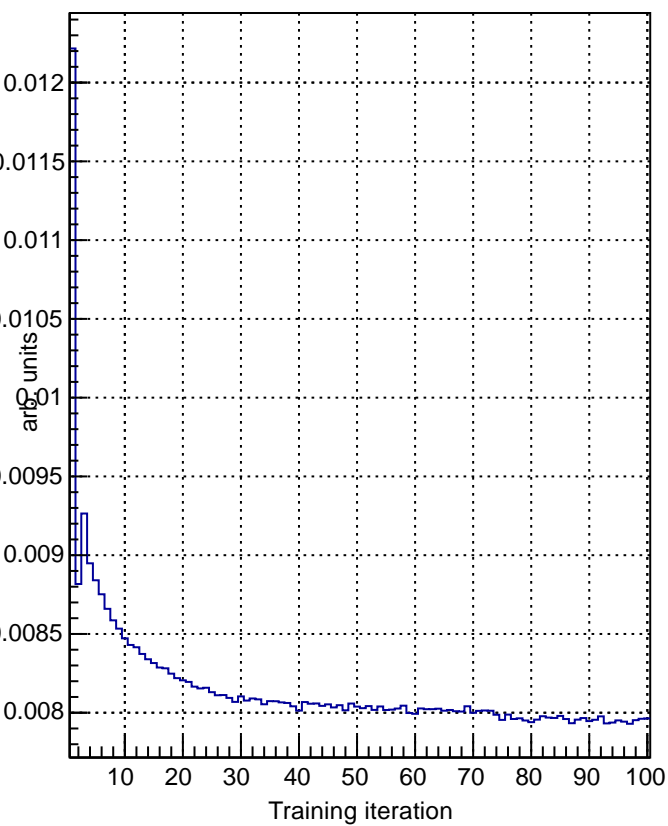
Error



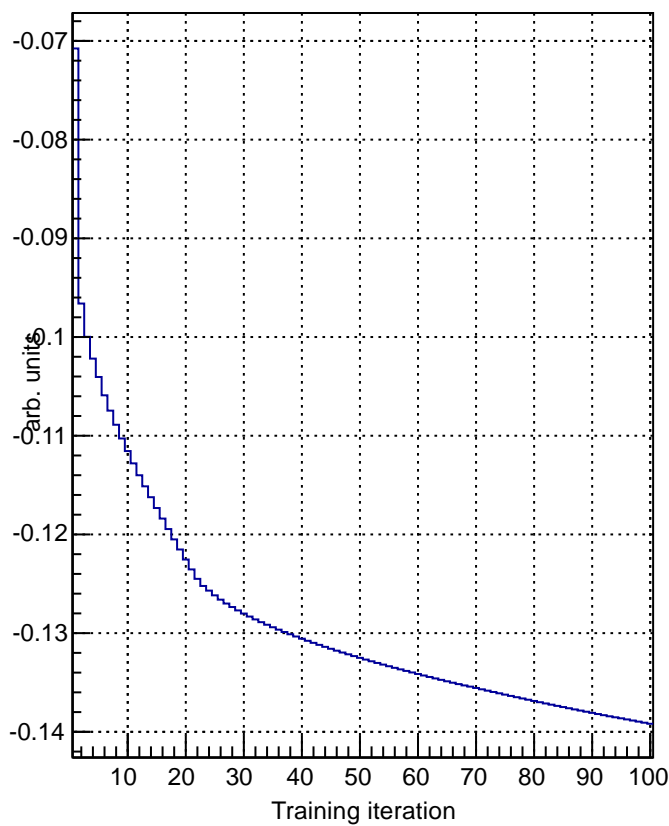
Error Testsample



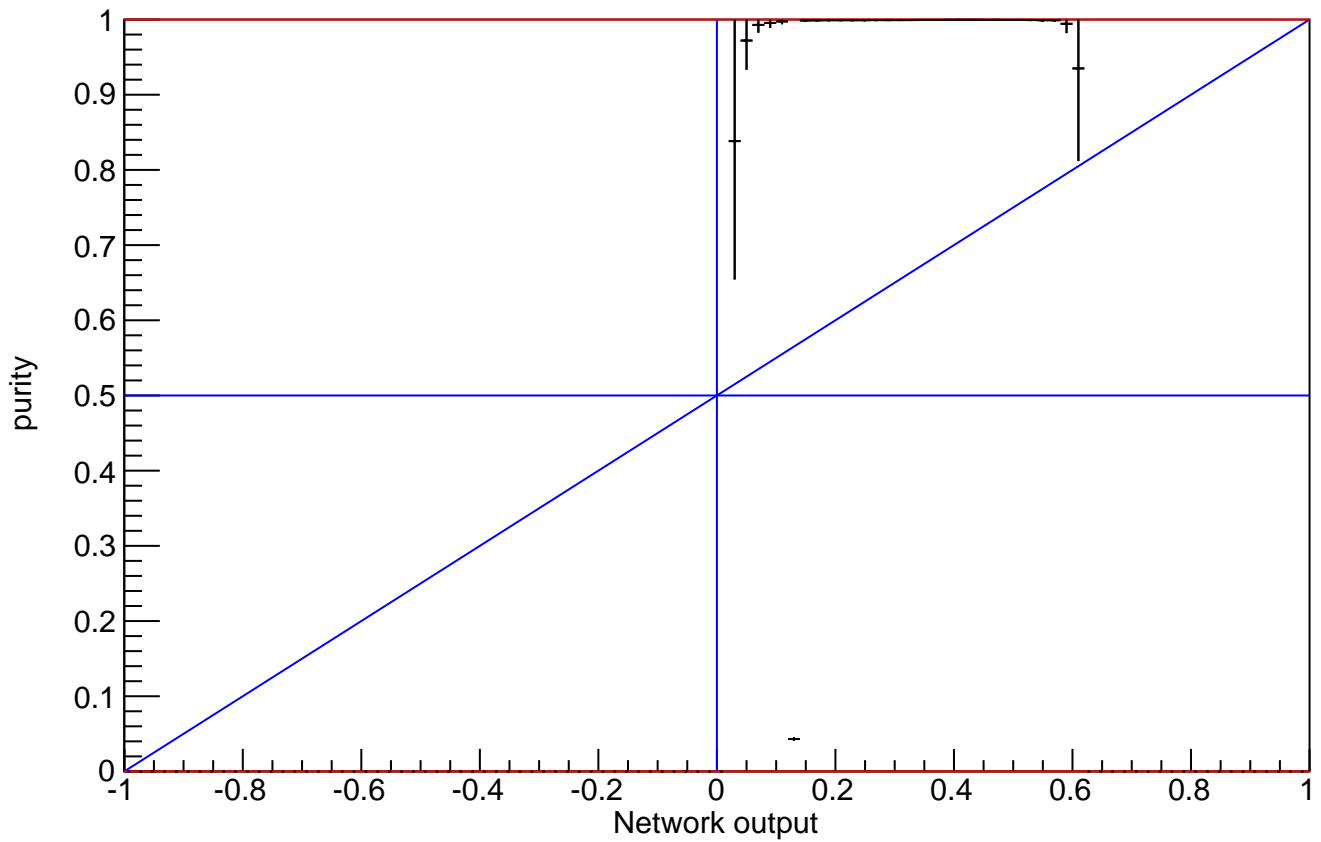
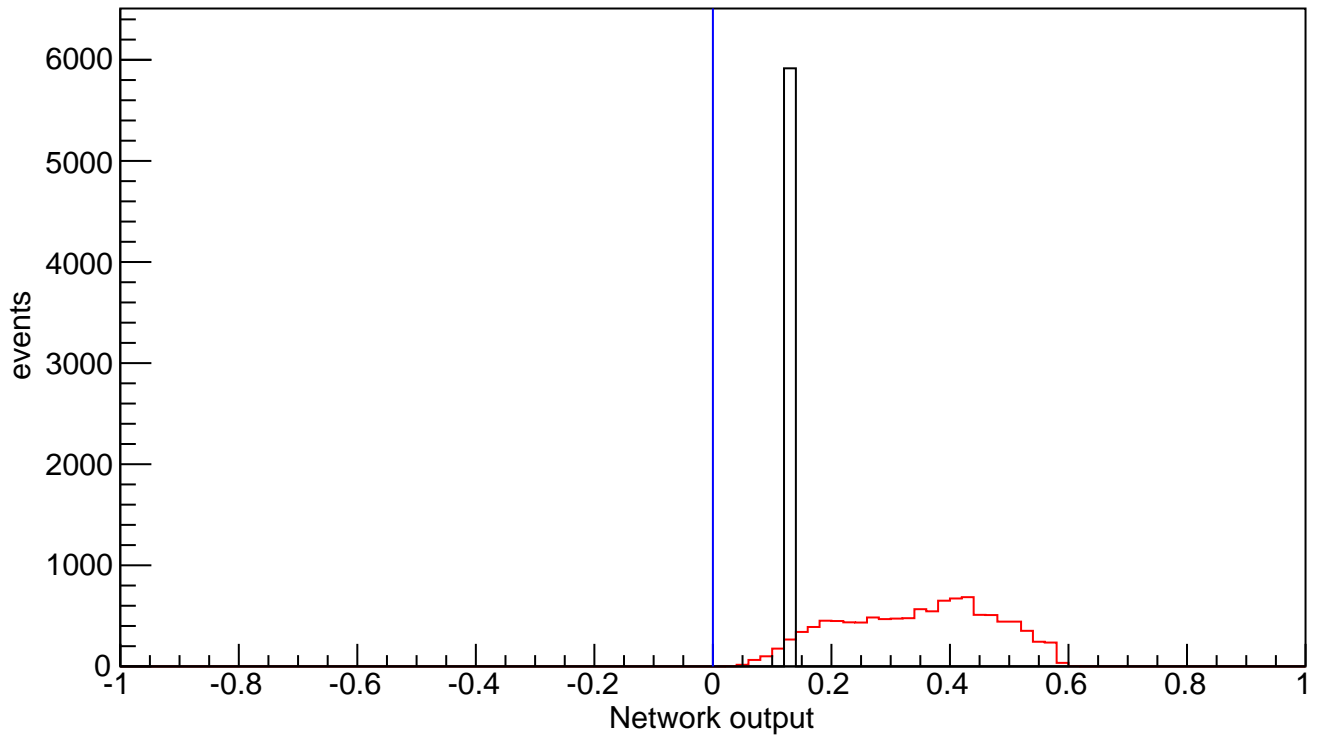
regularisation param. * weights

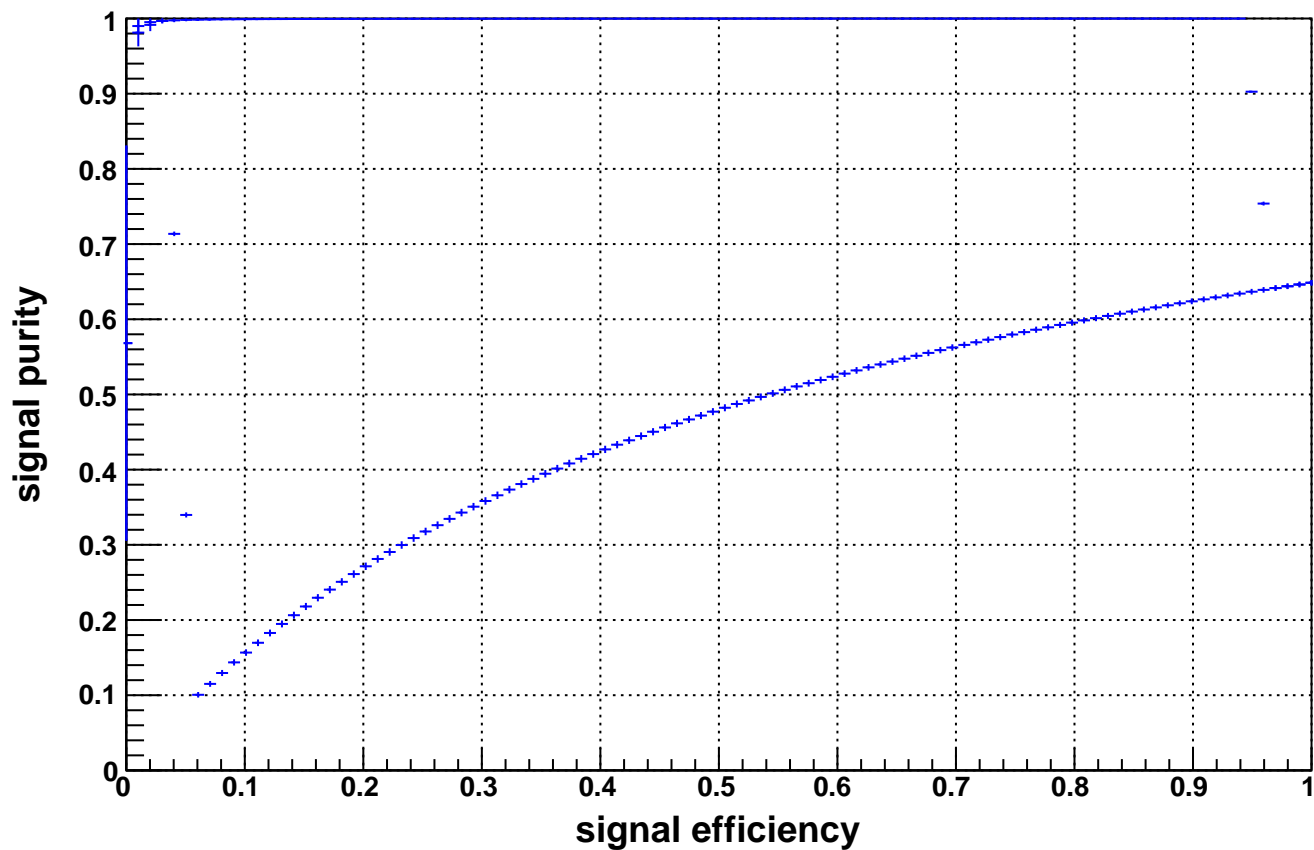


Err-Weight Learnsample

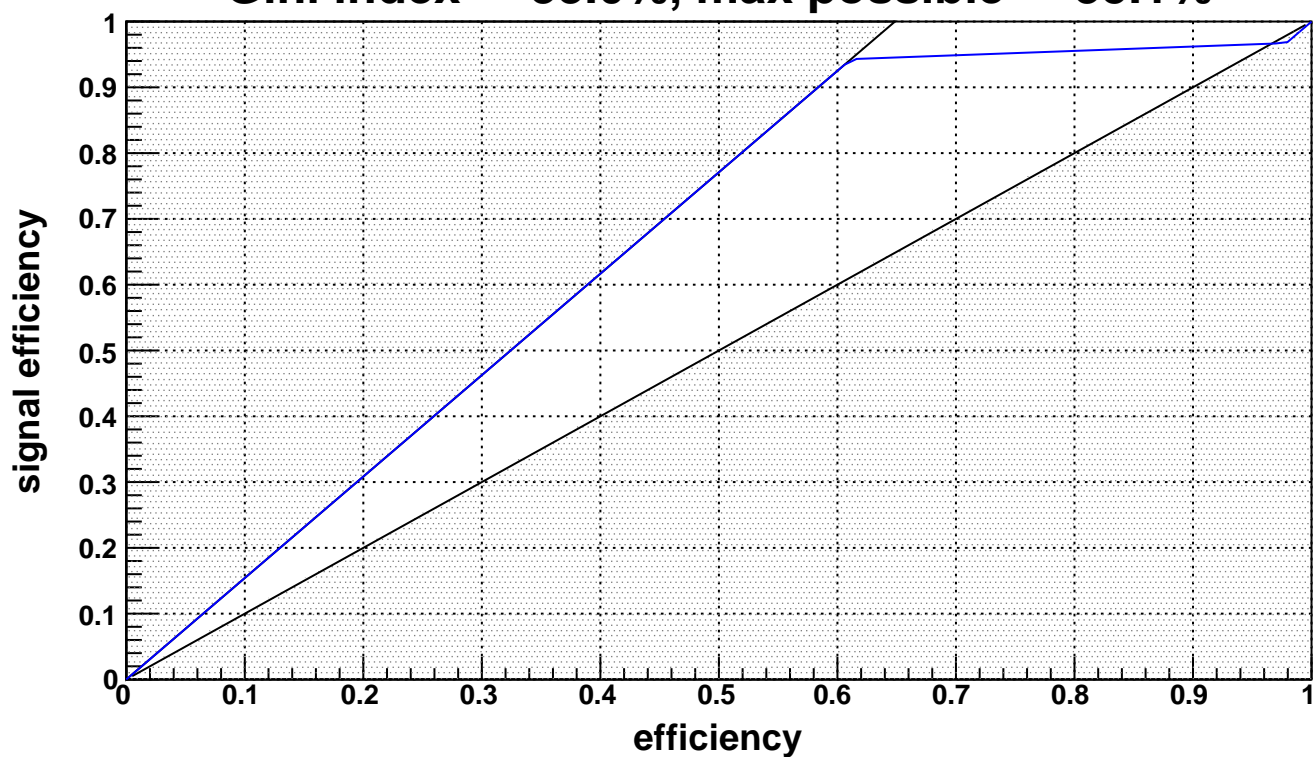


Output Node 1 (n = 16835 s = 10919 b = 5916 $p_{\text{sig}} = 0.6486$)

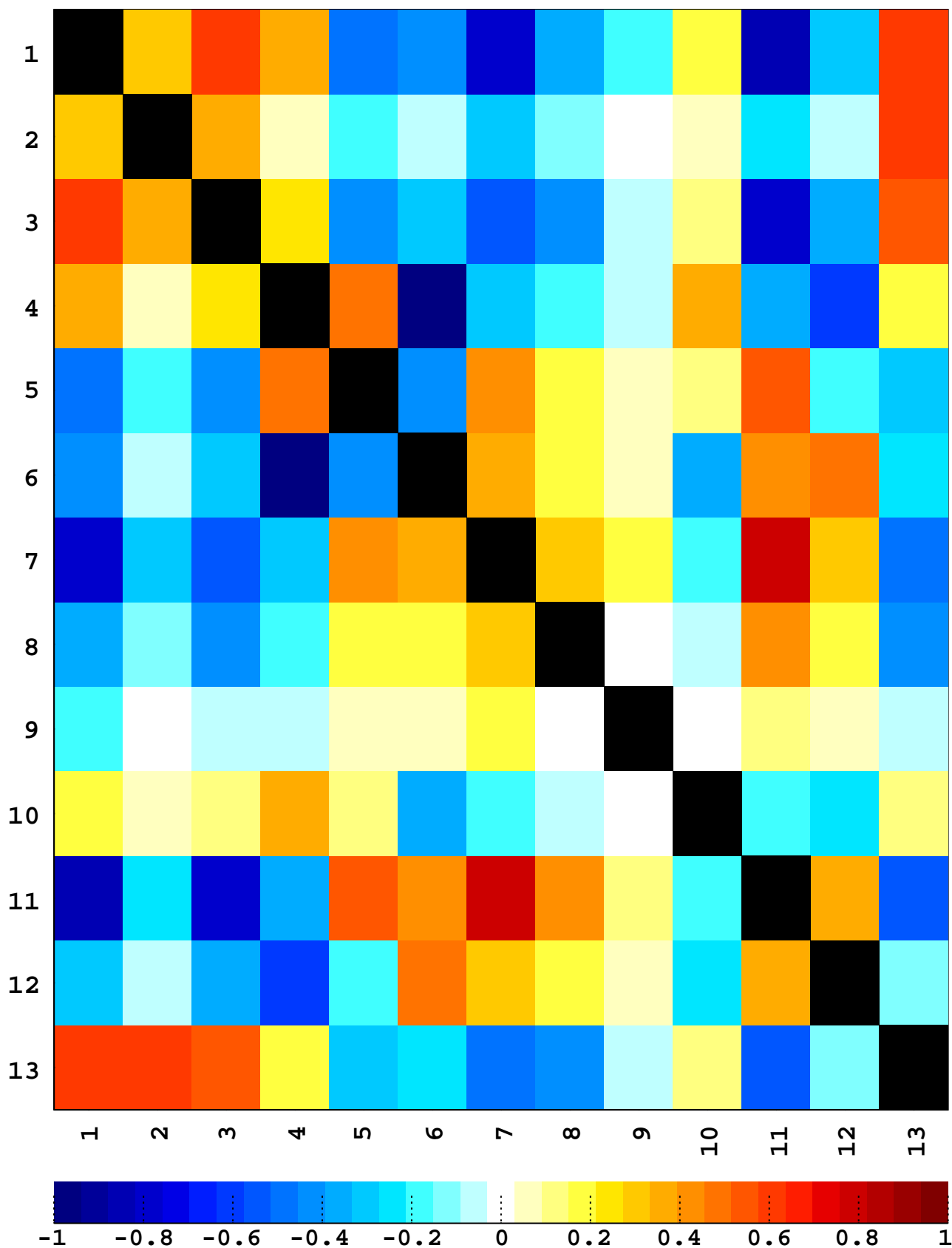




Gini index = 33.0%, max possible = 35.1%



correlation matrix of input variables



Input node 11 : pt_sum

1st most important

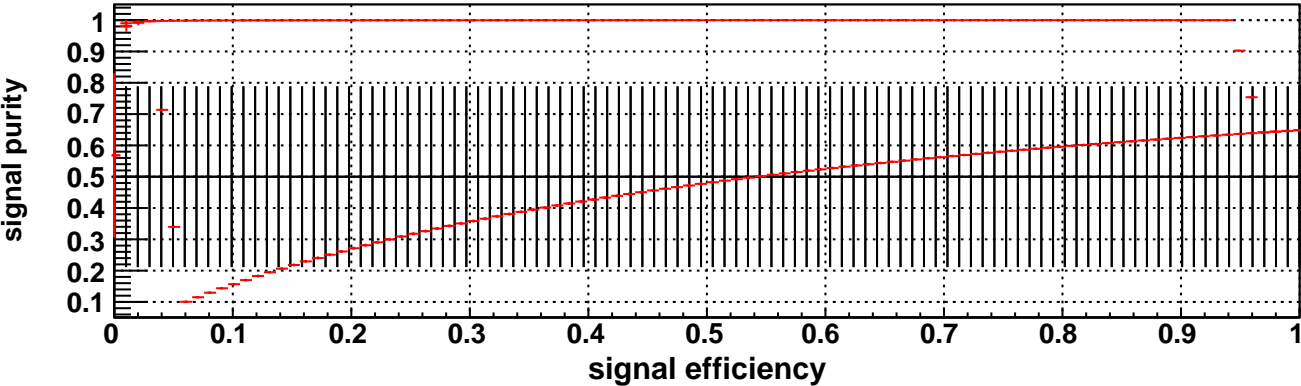
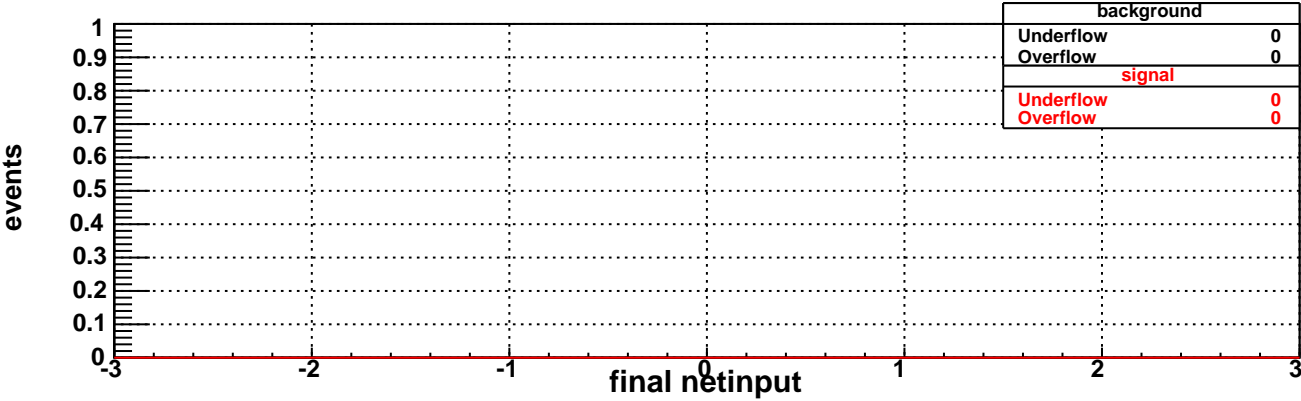
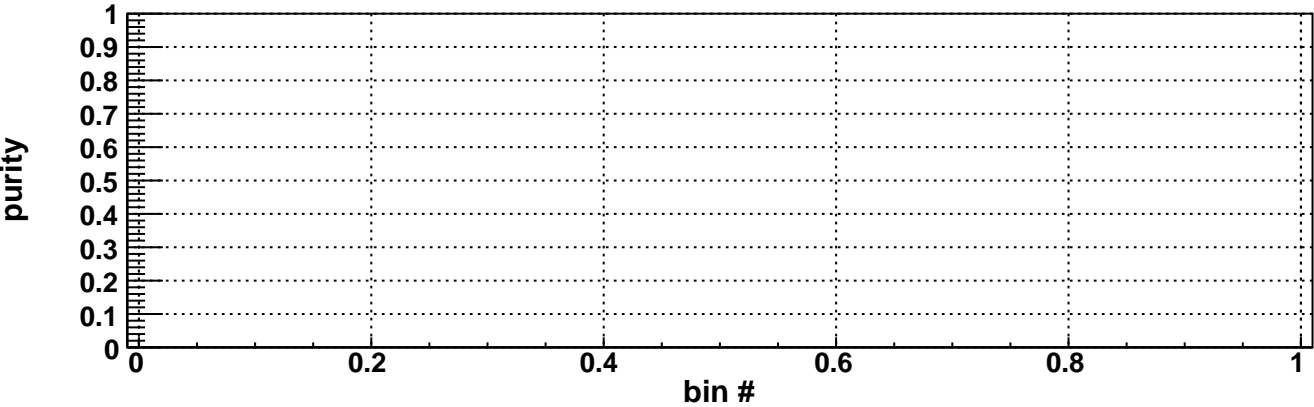
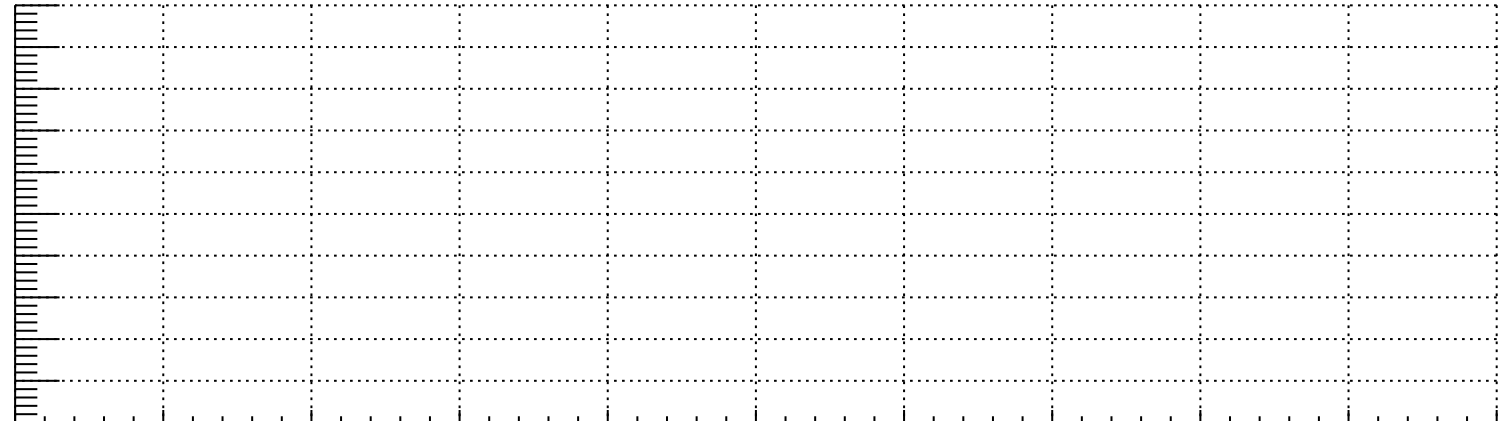
added signi. 109.69

signi. loss 22.67

PrePro: 12 #11

only this 109.69

corr. to others 95.40%



separation

Input node 7 : pt_tot

2nd most important

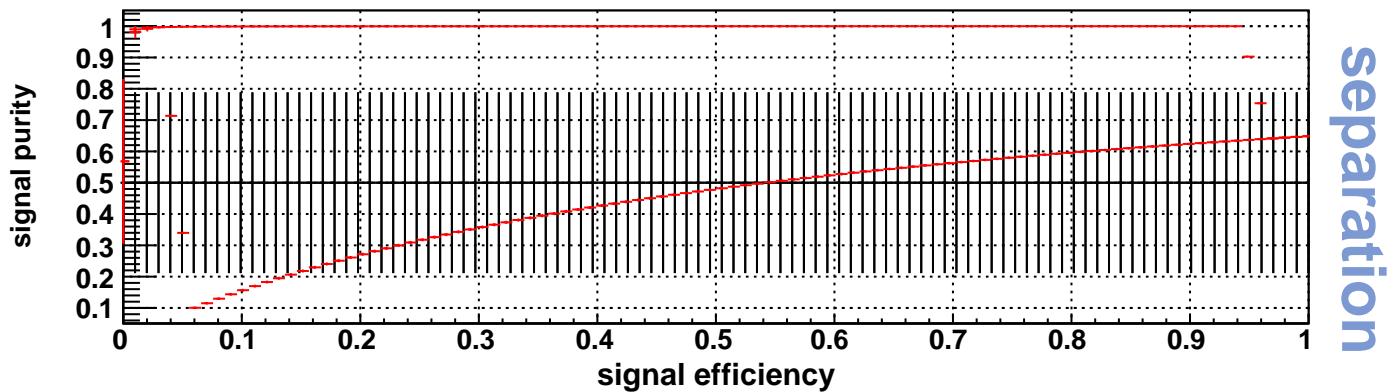
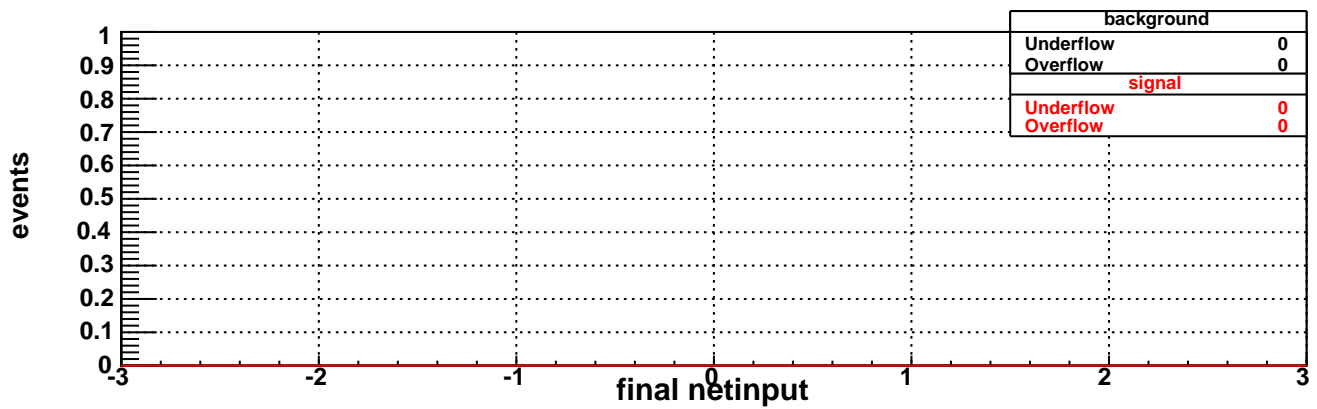
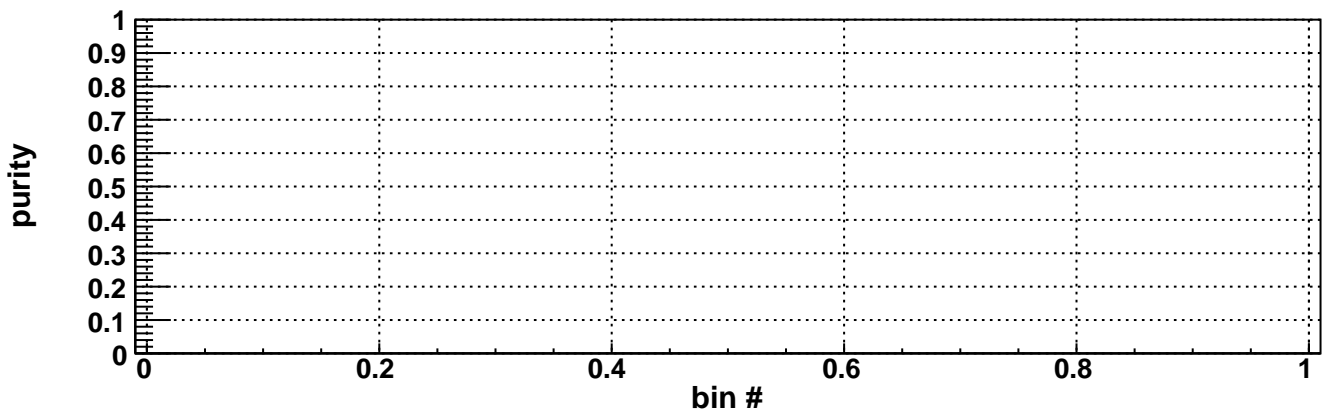
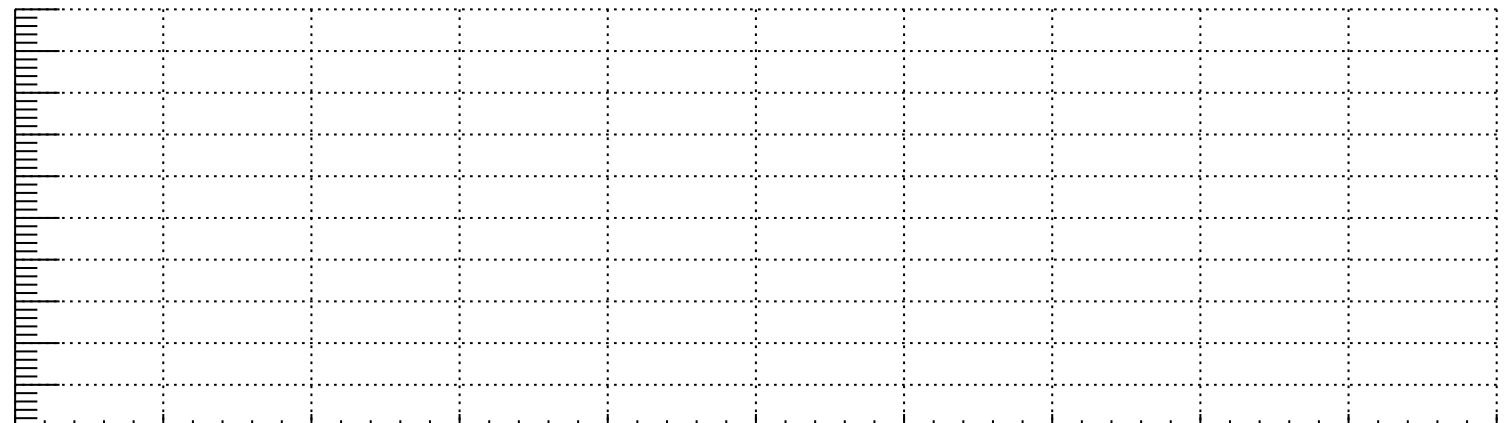
added signi. 34.30

signi. loss 25.31

PrePro: 12 #7

only this 105.85

corr. to others 78.70%



Input node 13 : mvis

3rd most important

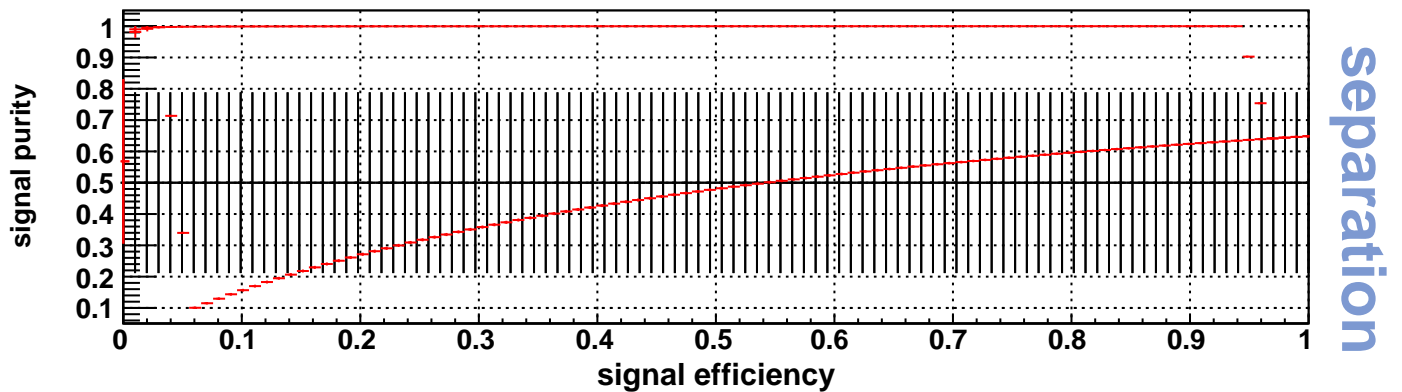
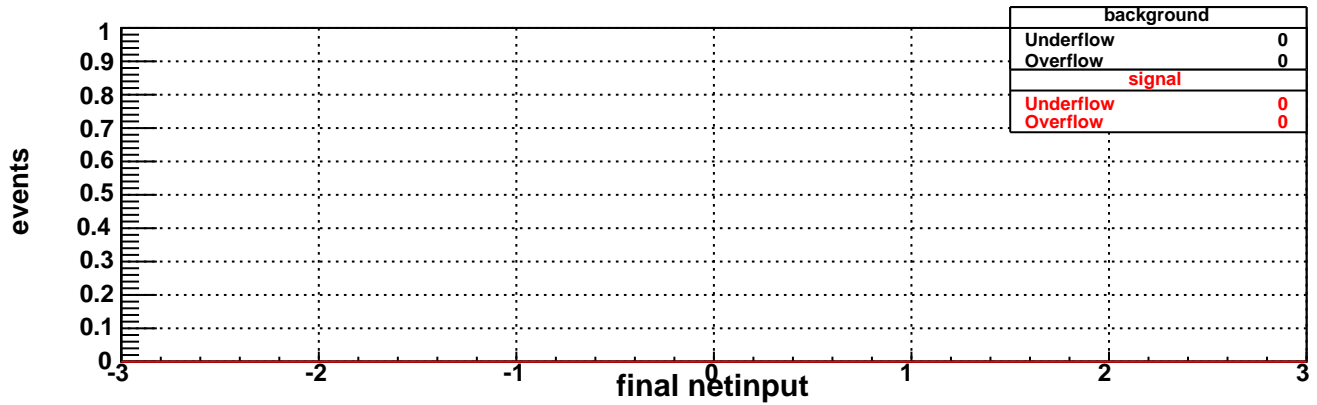
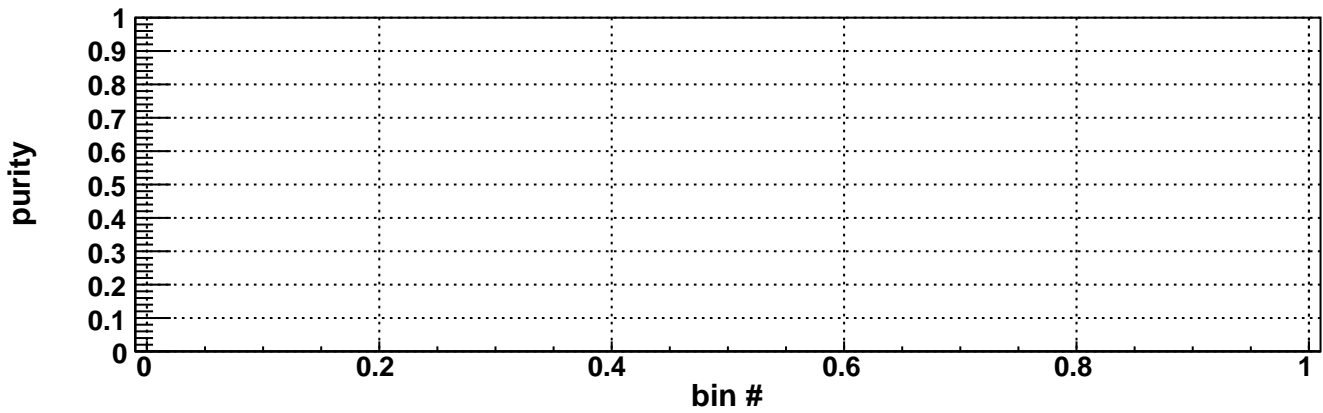
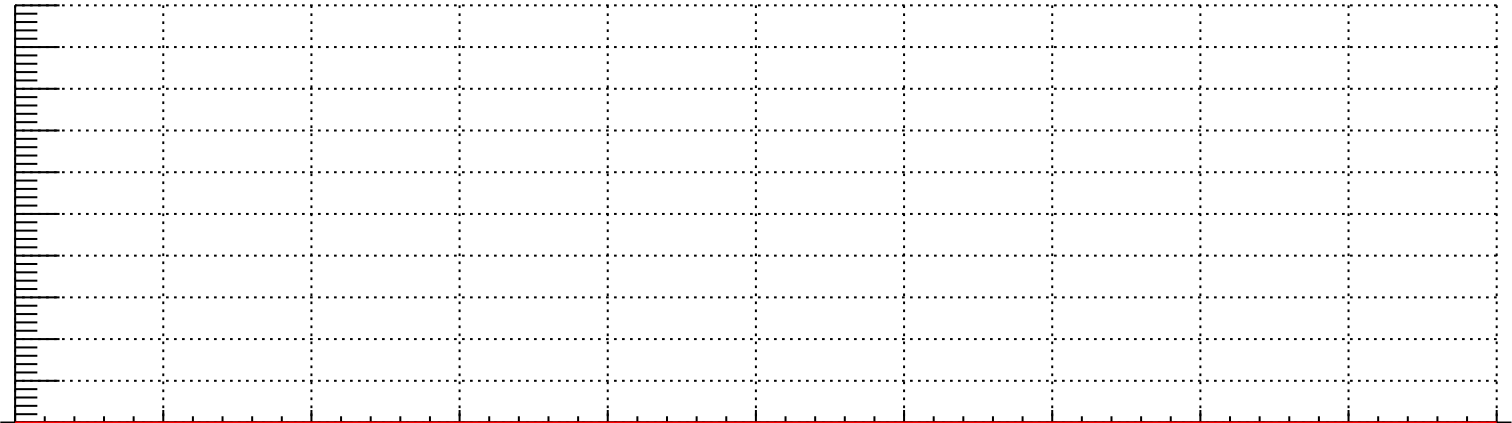
added signi. 14.21

signi. loss 8.31

PrePro: 12 #13

only this 77.03

corr. to others 76.50%



Input node 3 : dr_leptau

4th most important

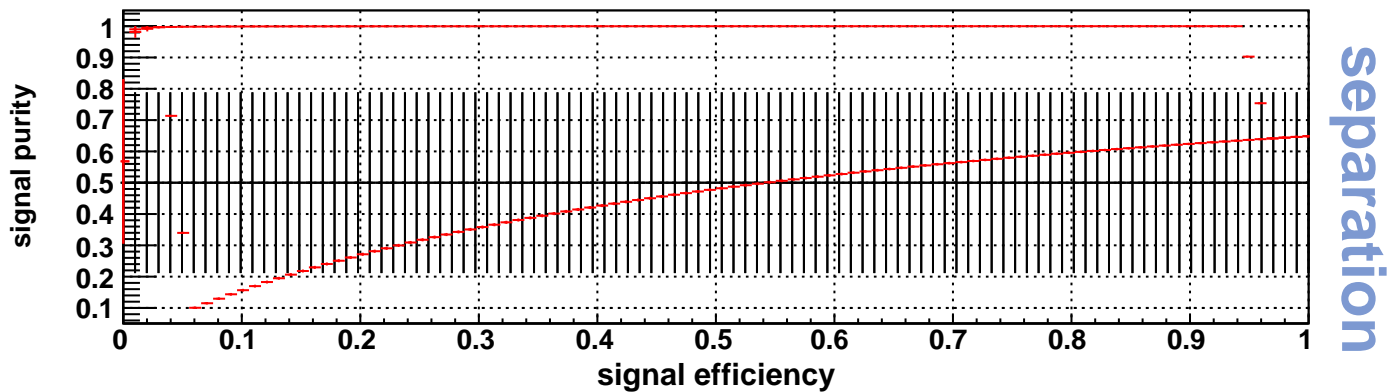
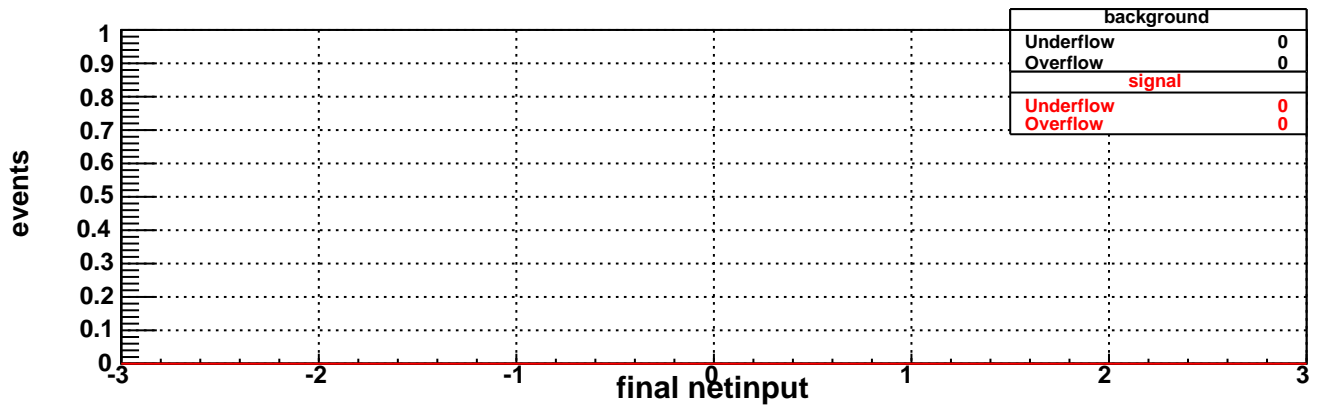
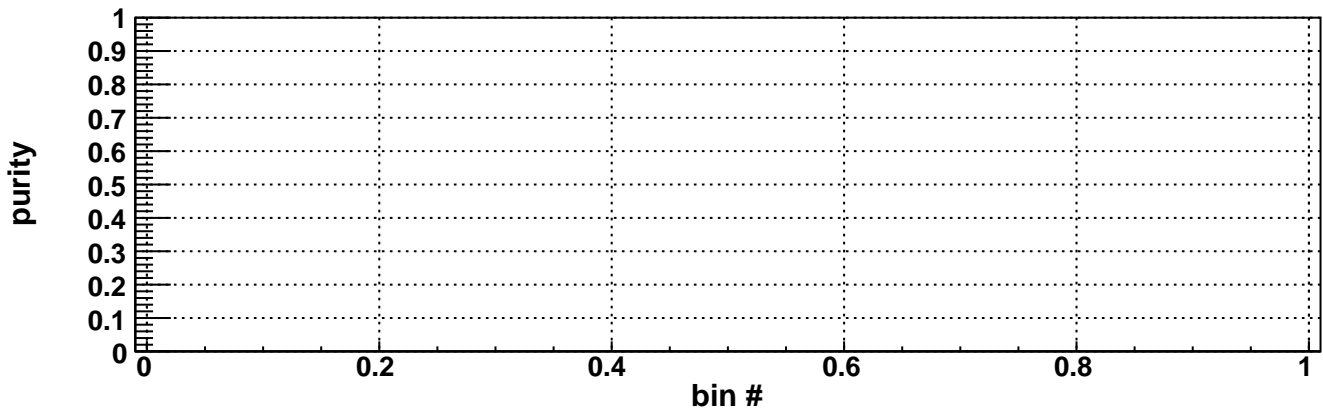
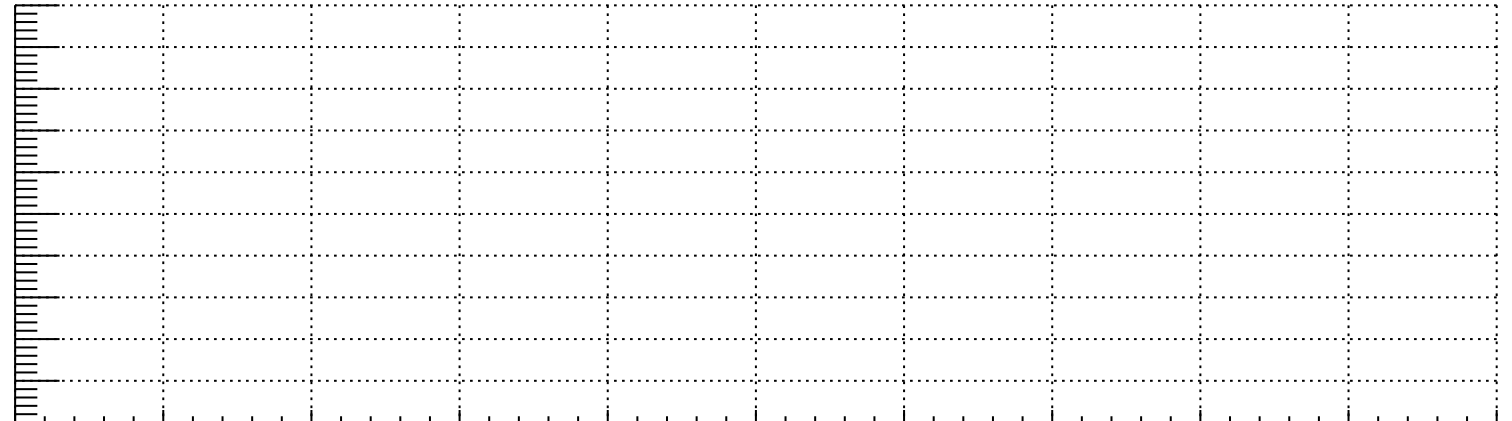
added signi. 16.29

signi. loss 18.76

PrePro: 12 #3

only this 77.19

corr. to others 84.40%



Input node 6 : jeta1eta2

5th most important

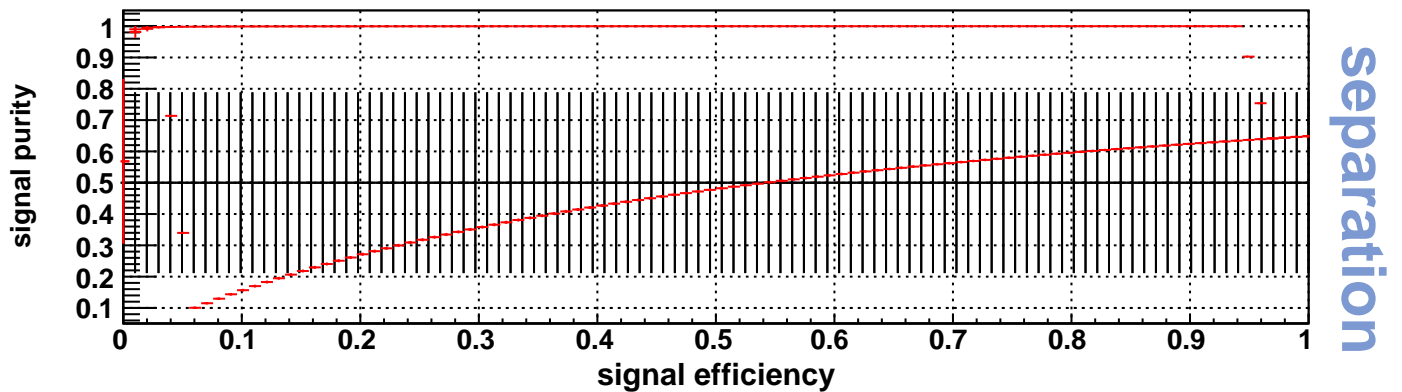
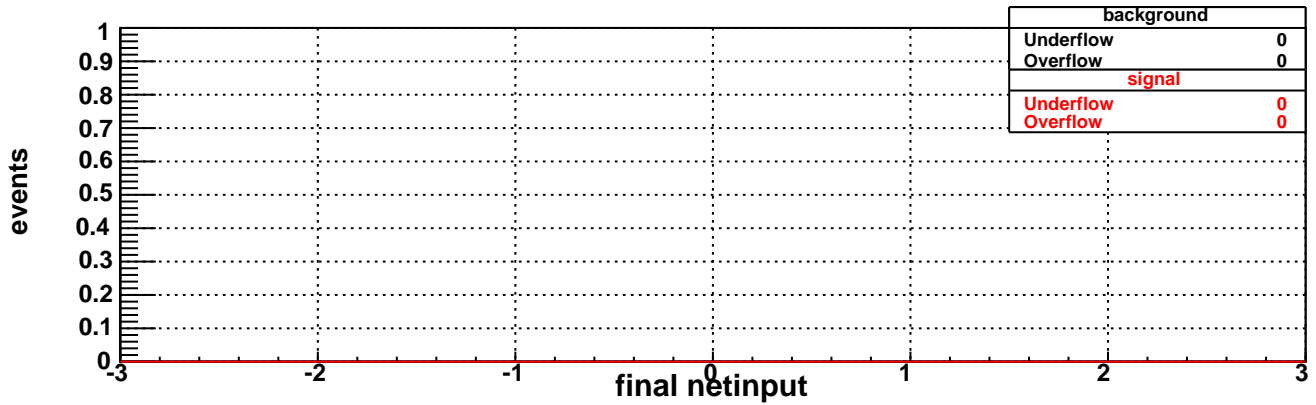
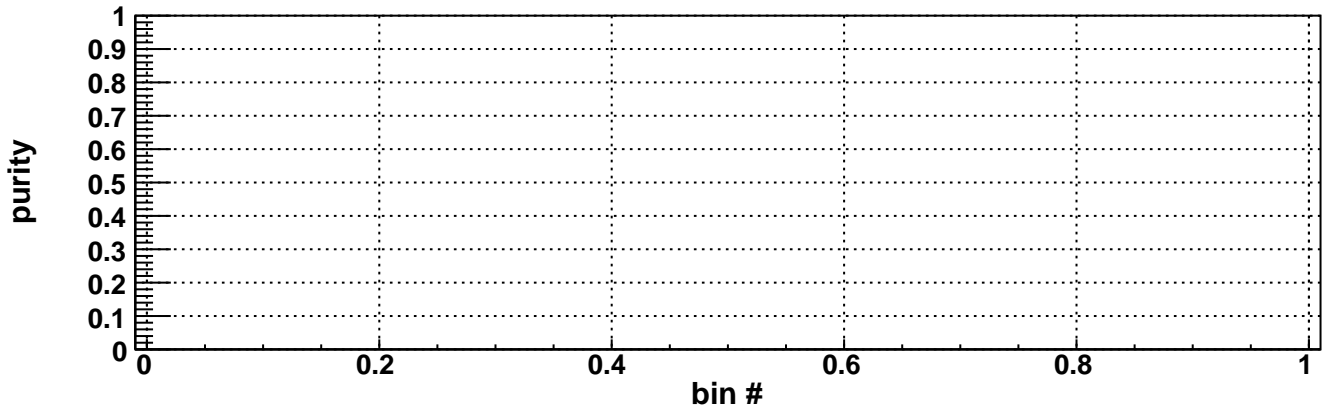
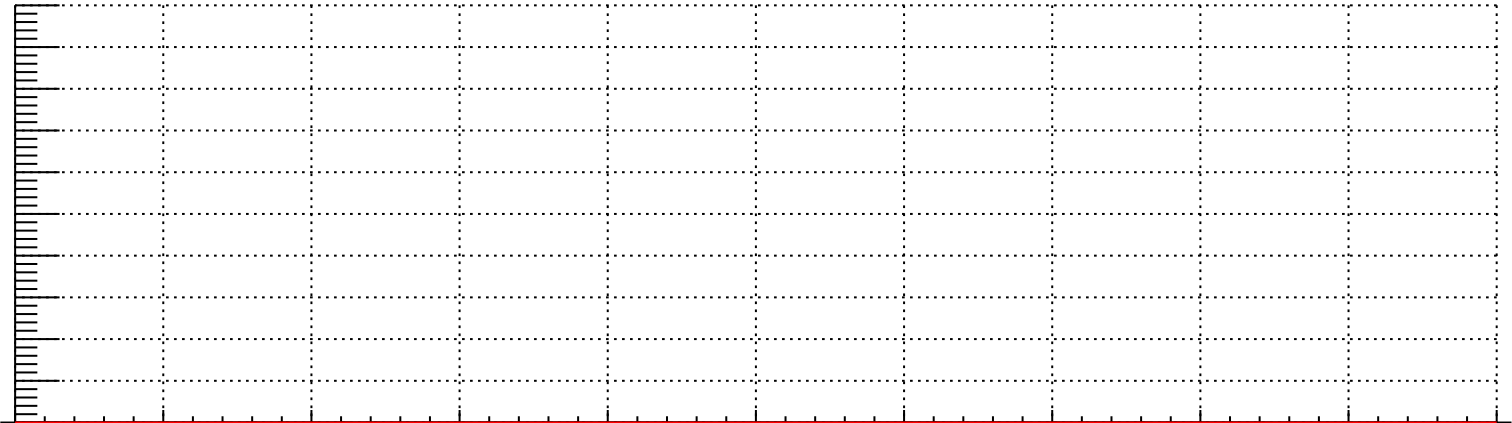
added signi. 4.54

signi. loss 12.88

PrePro: 12 #6

only this 52.22

corr. to others 95.80%



Input node 4 : jdeta

6th most important

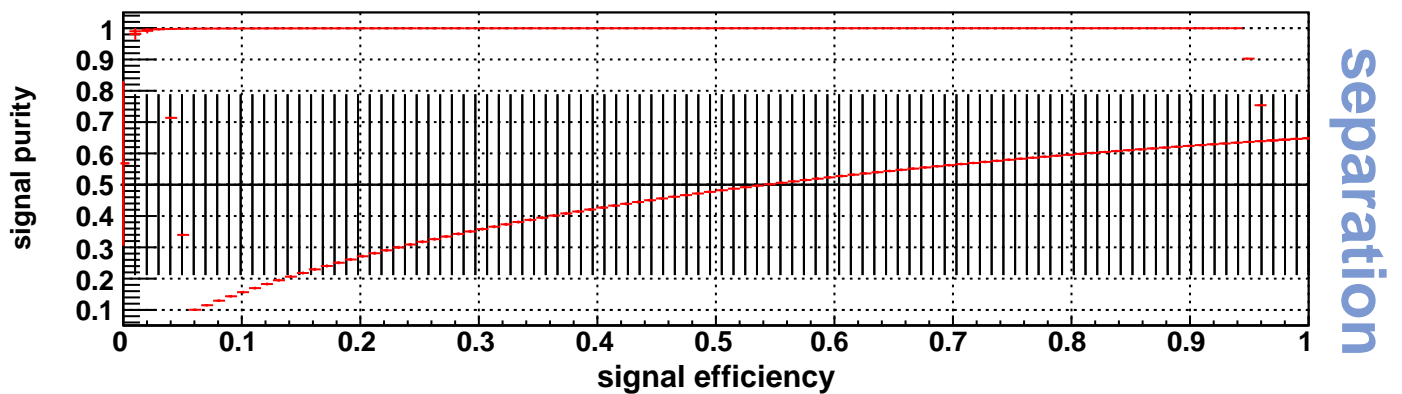
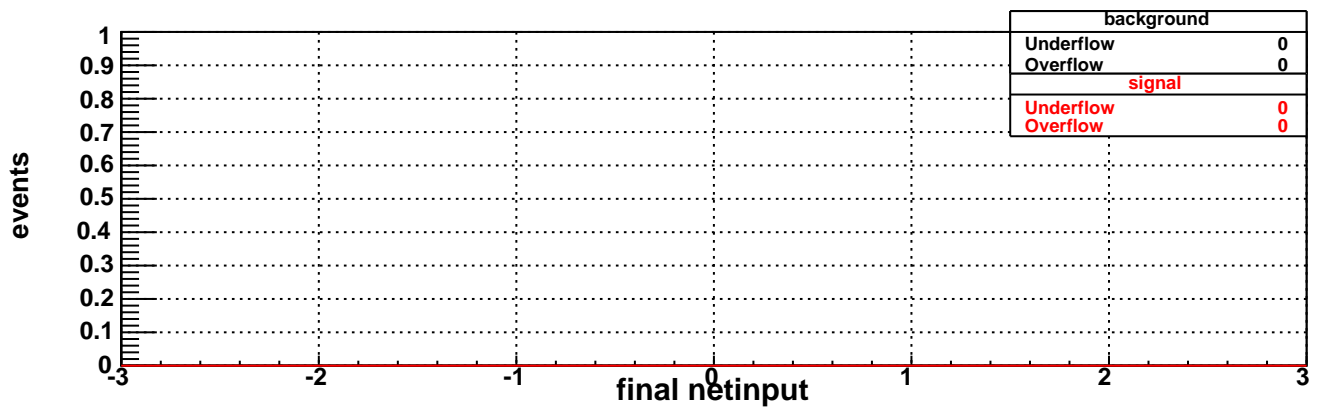
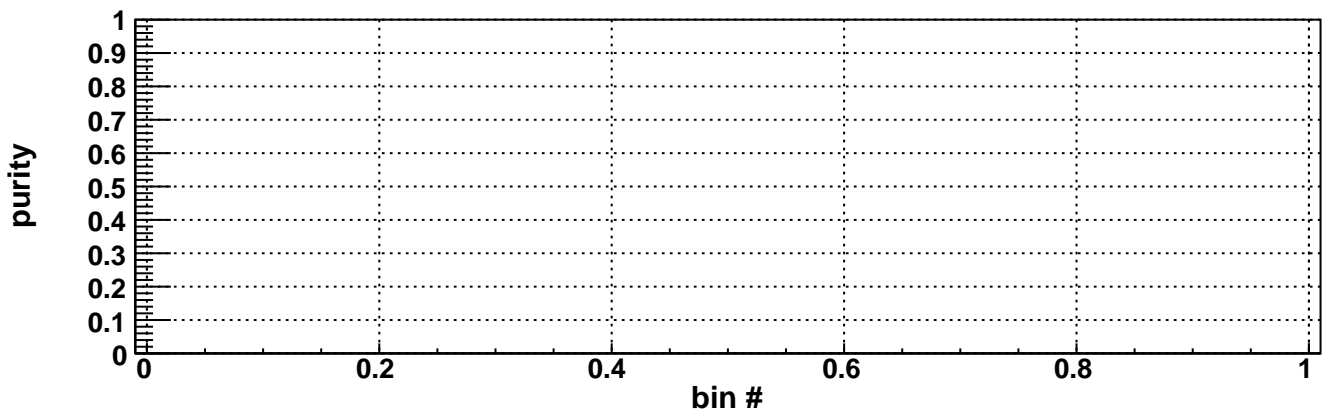
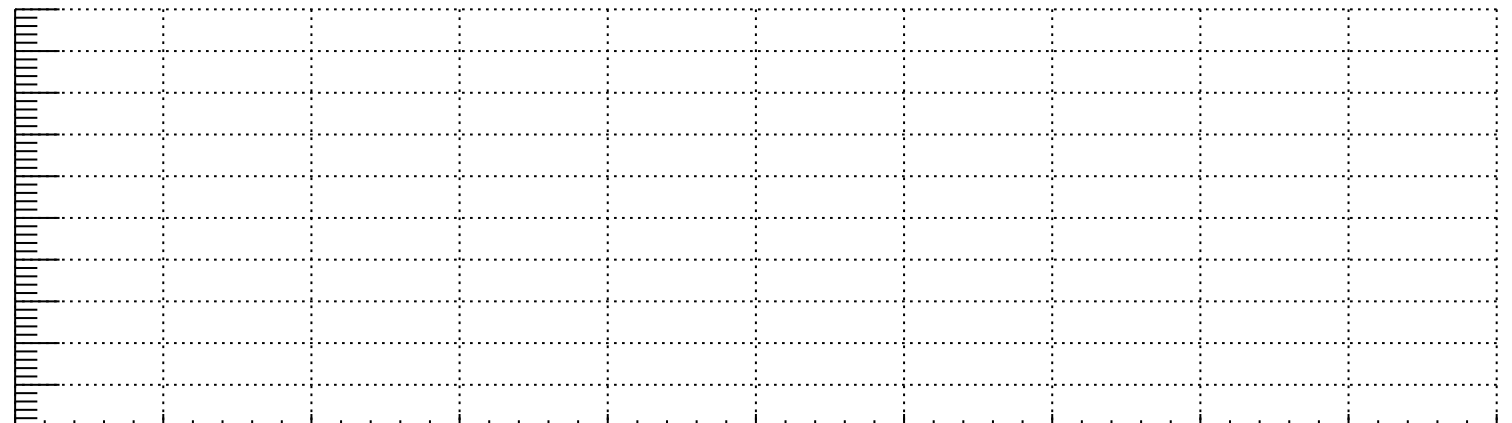
added signi. 8.64

signi. loss 9.83

PrePro: 12 #4

only this 43.52

corr. to others 96.50%



Input node 12 : sphericity

7th most important

added signi. 10.39

signi. loss 10.43

PrePro: 12 #12

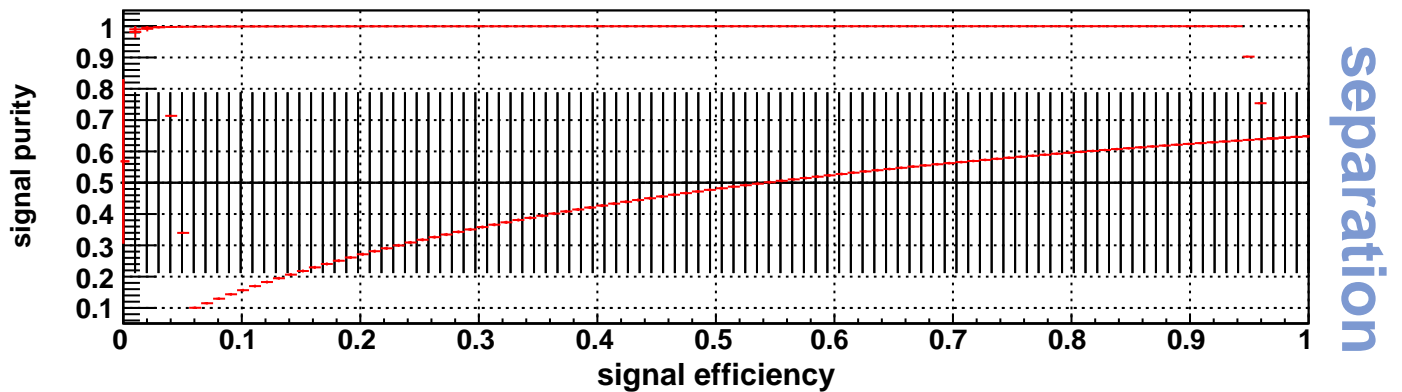
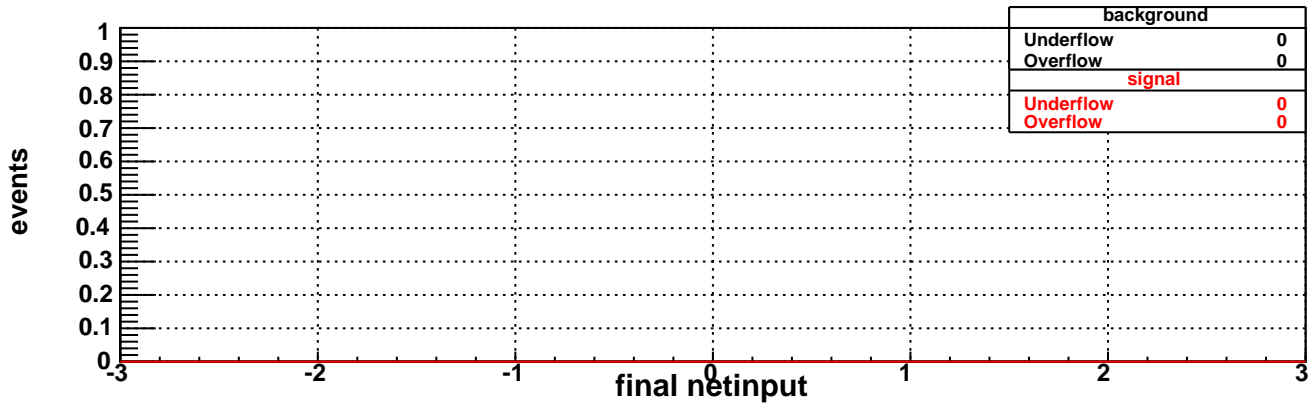
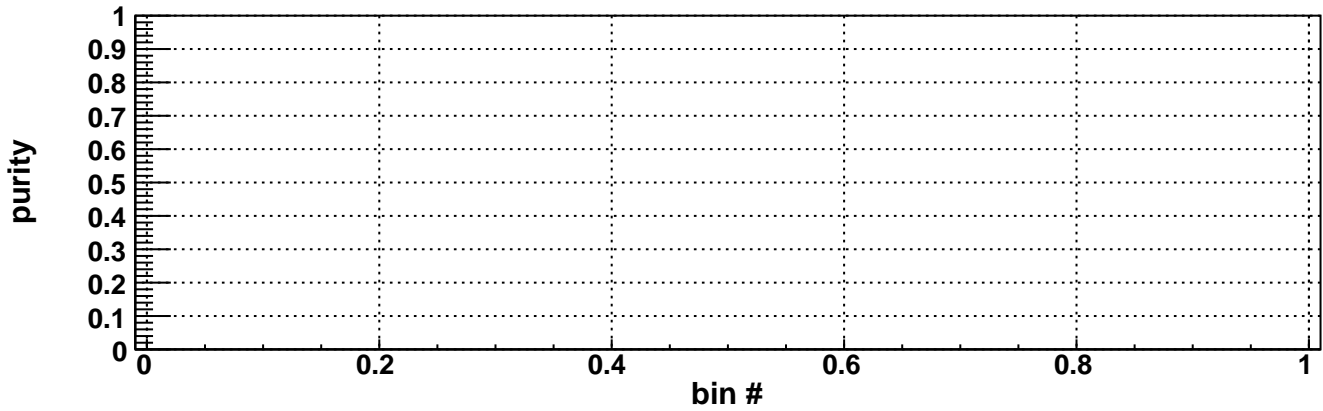
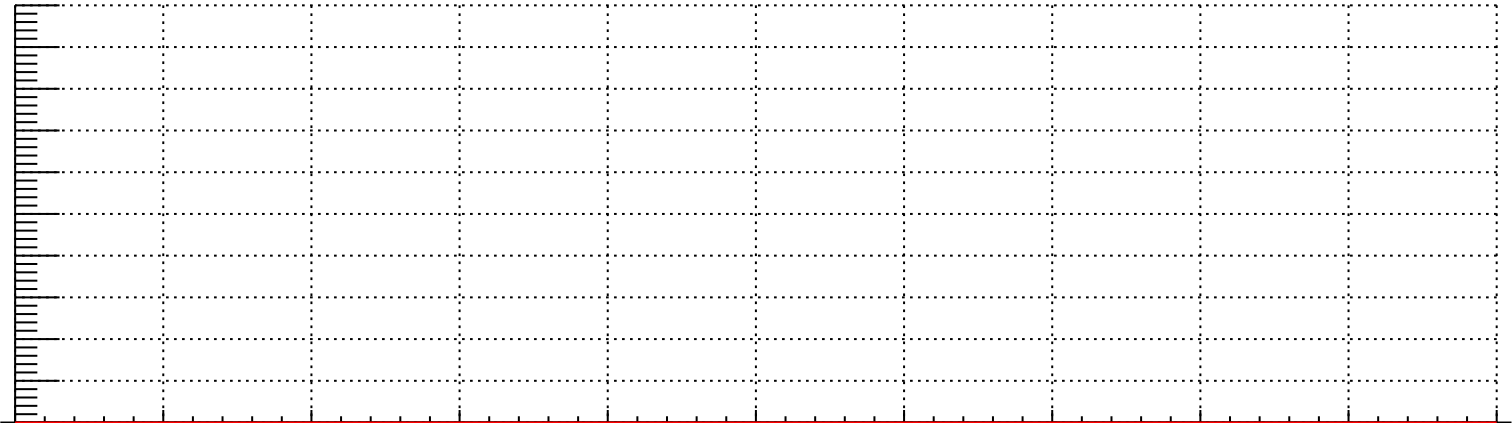
only this 42.48

corr. to others 70.60%



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Input node 2 : svfit_mass

8th most important

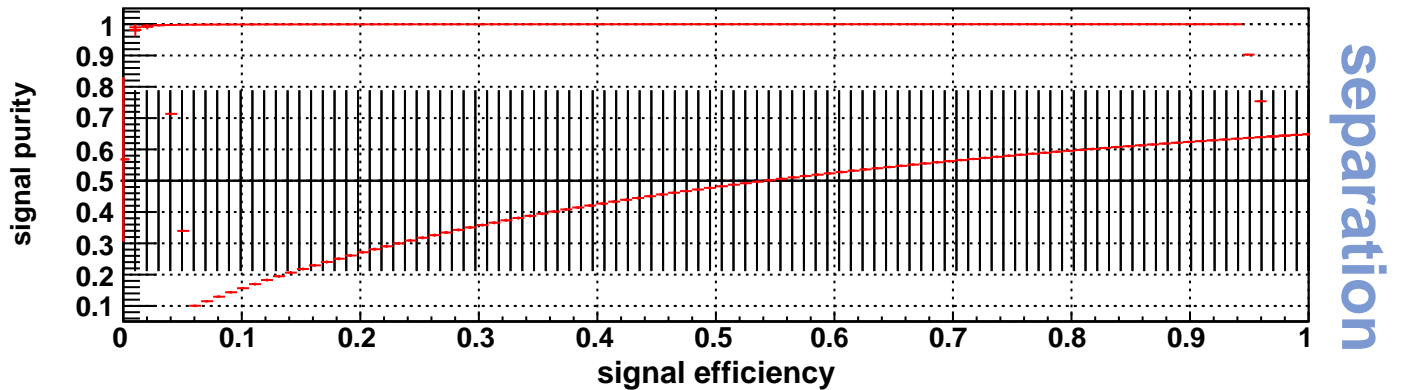
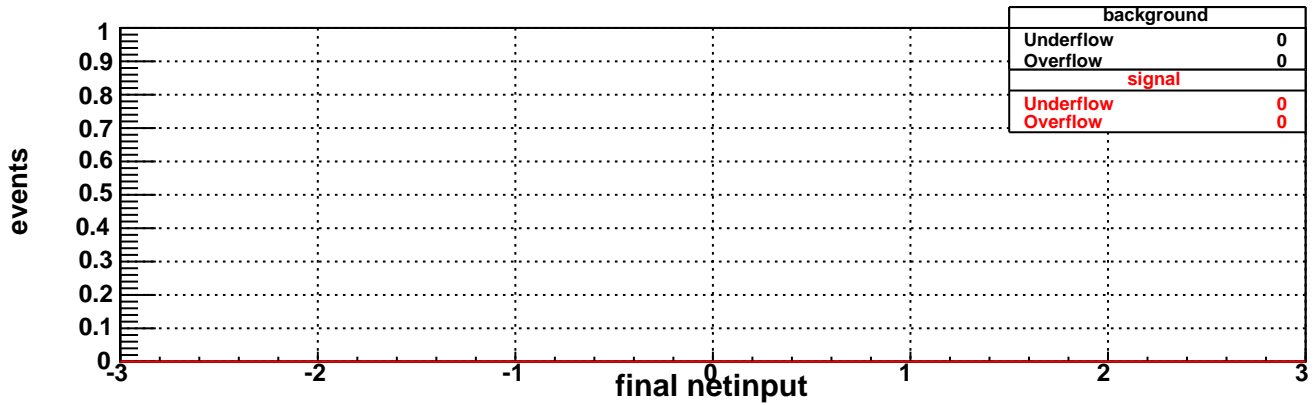
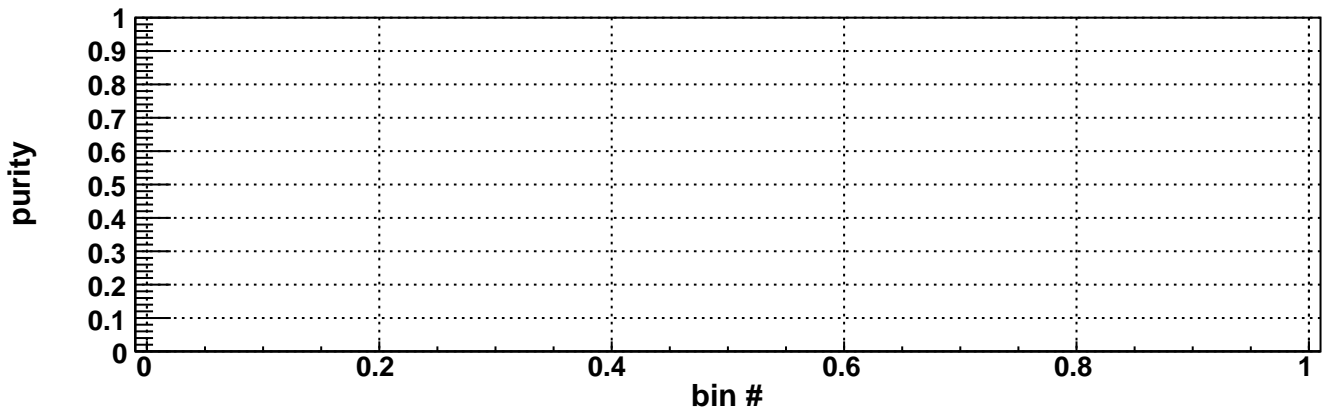
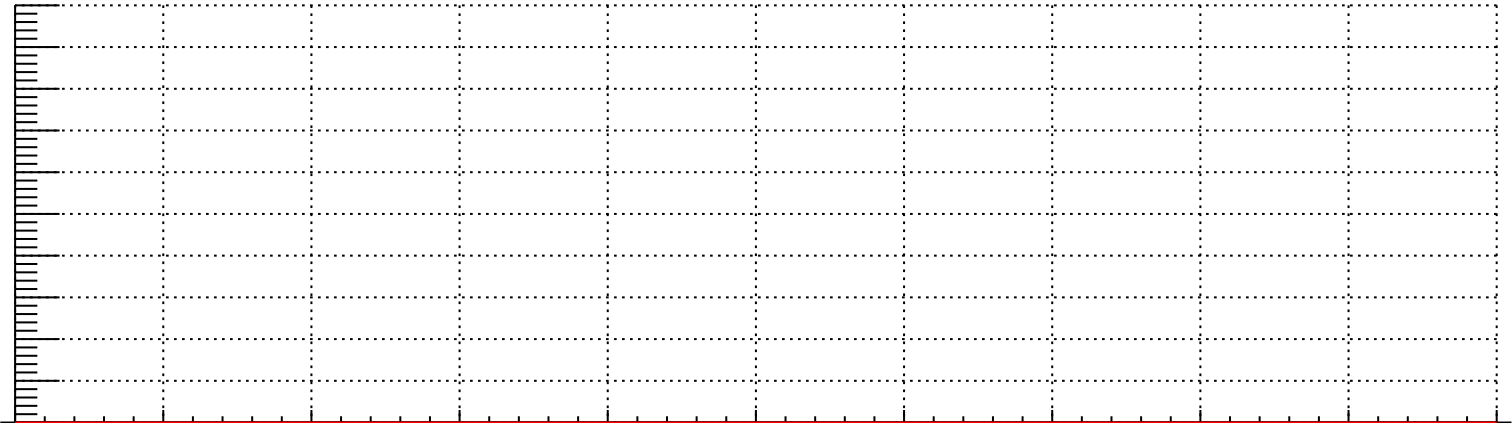
added signi. 6.71

signi. loss 7.54

PrePro: 12 #2

only this 41.47

corr. to others 65.70%



Input node 8 : met centrality

9th most important

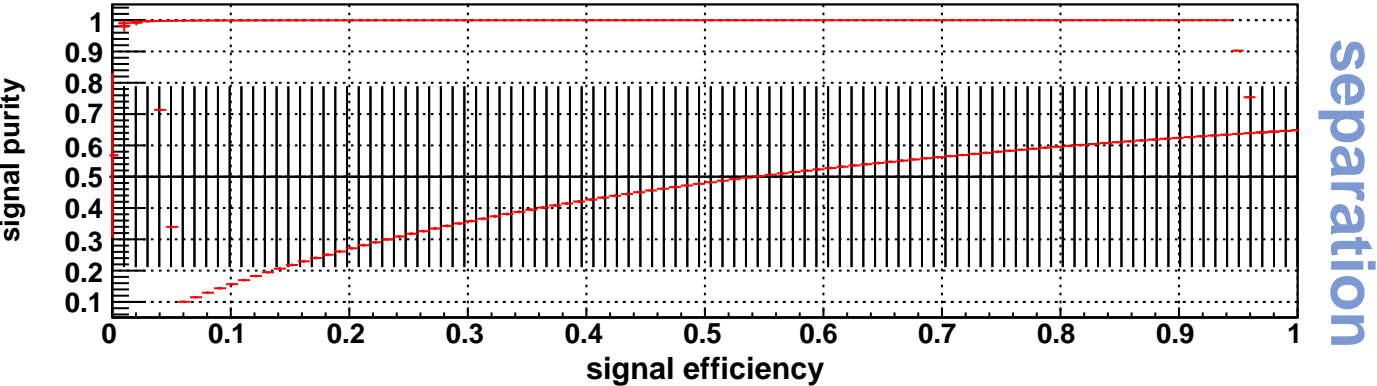
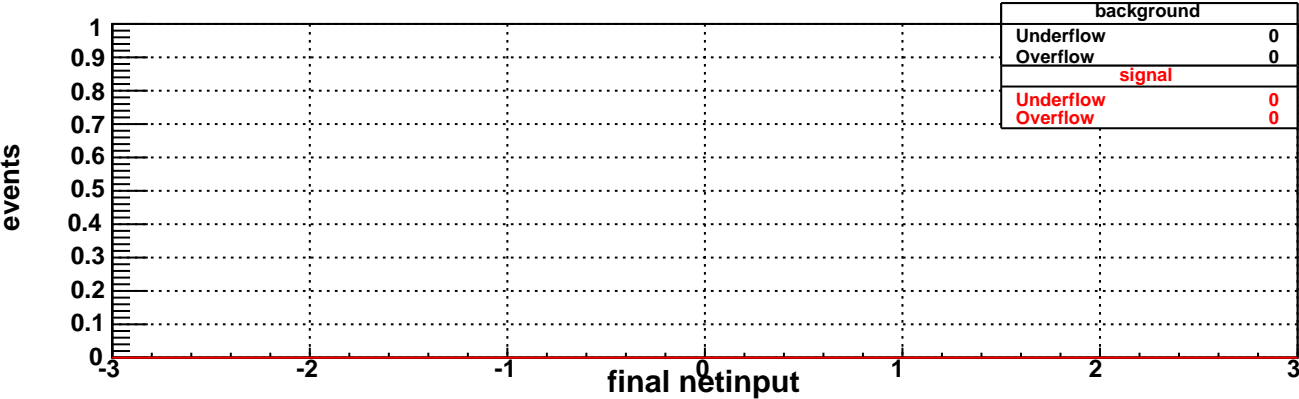
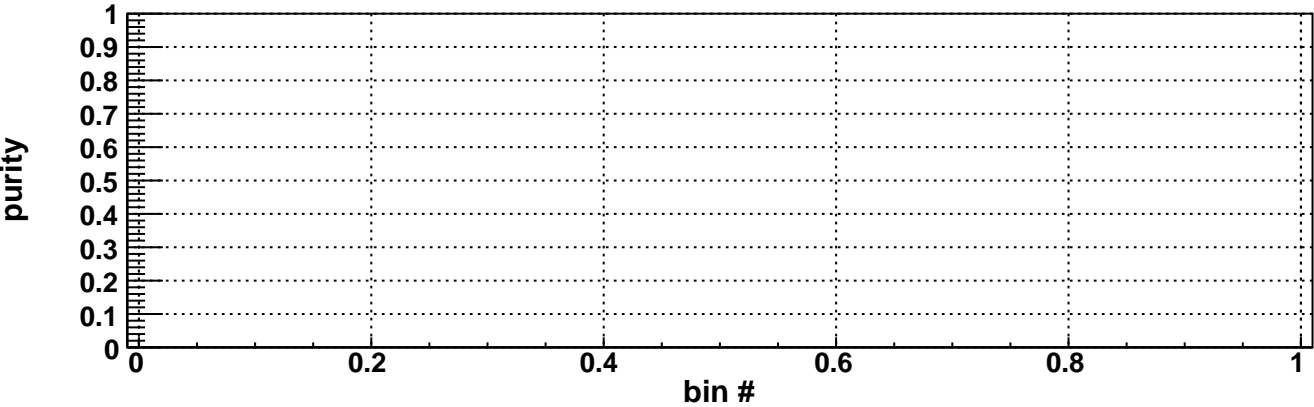
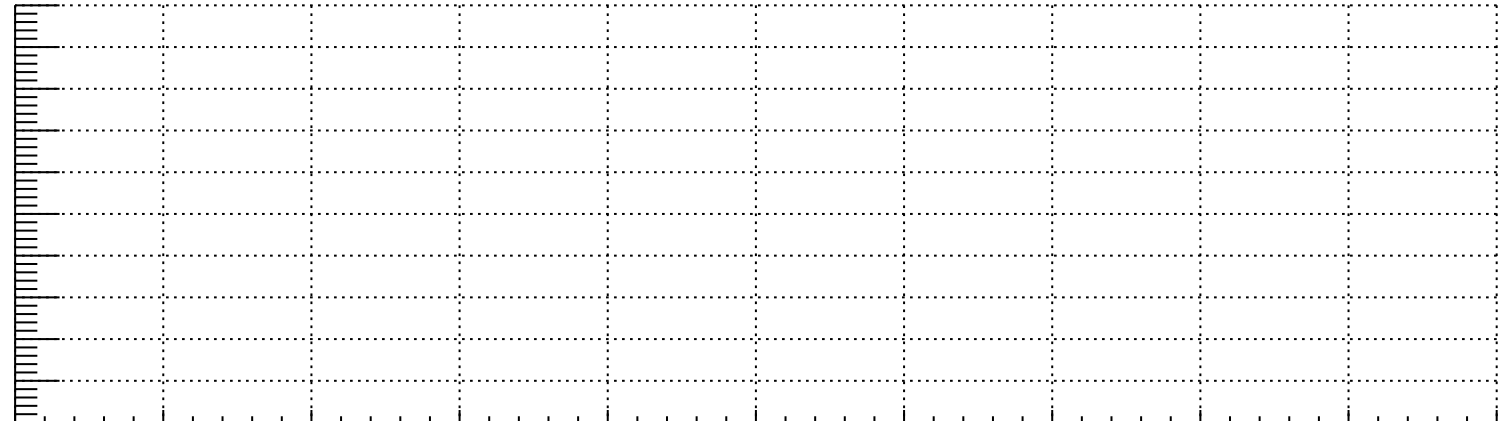
added signi. 8.04

signi. loss 7.83

PrePro: 12 #8

only this 50.03

corr. to others 54.30%



Input node 5 : mjj

10th most important

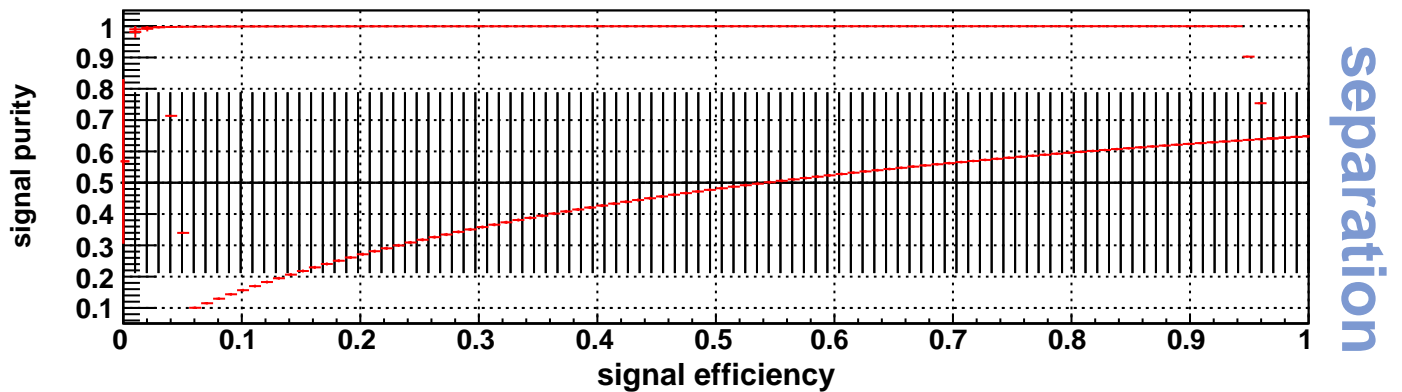
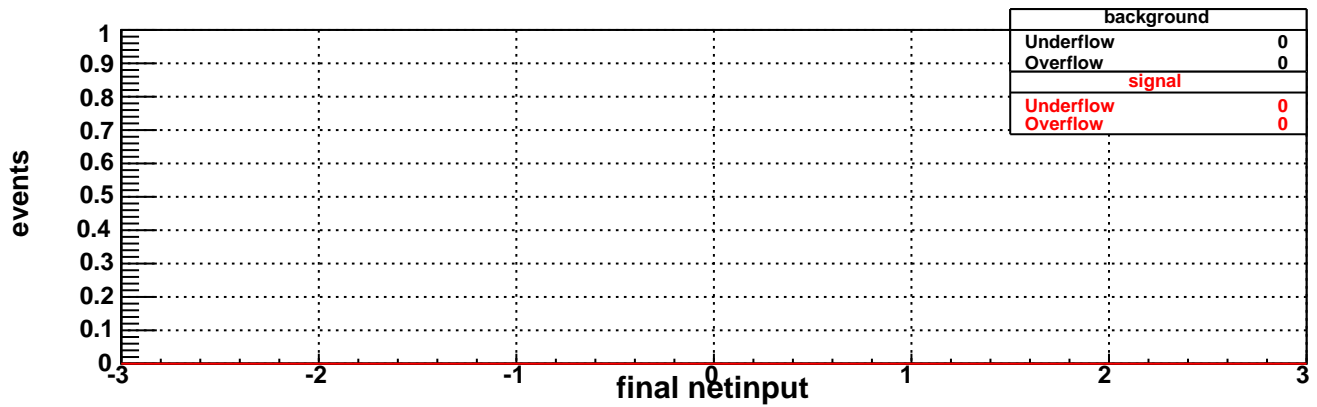
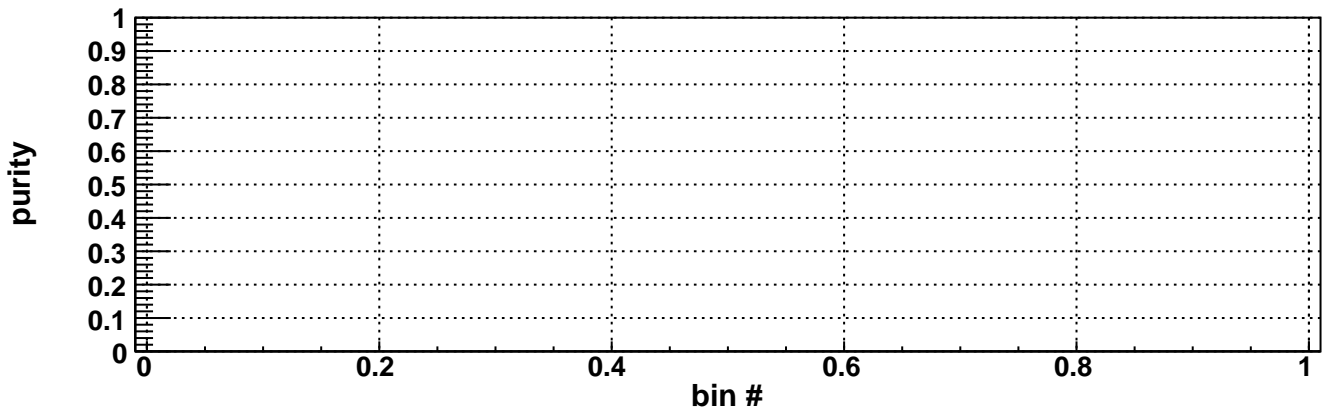
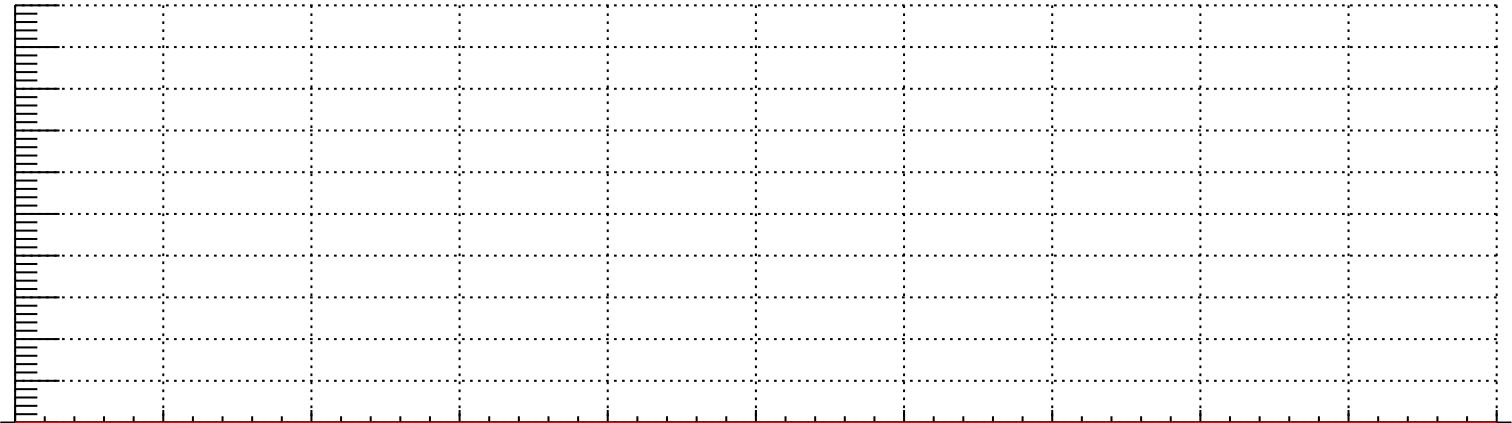
added signi. 4.88

signi. loss 4.73

PrePro: 12 #5

only this 61.13

corr. to others 93.00%



Input node 9 : mt_1

11th most important

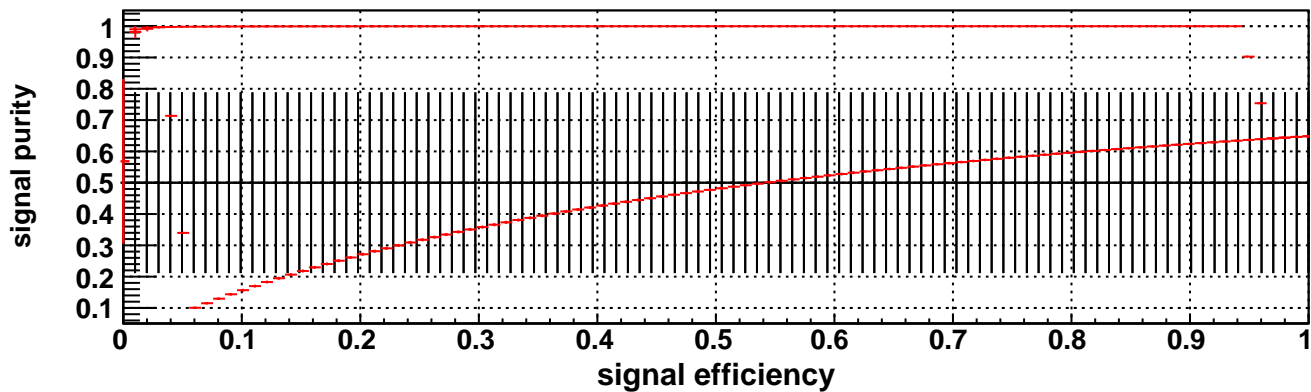
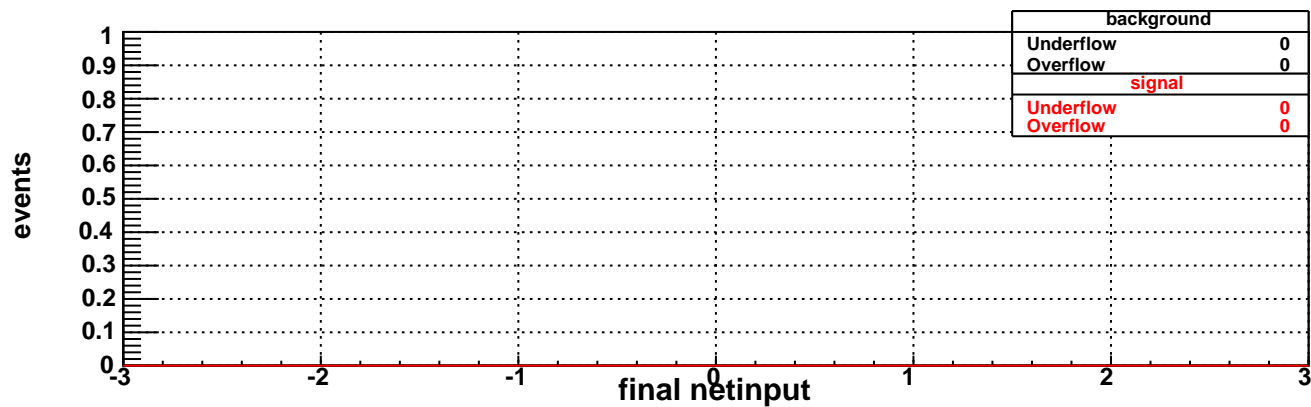
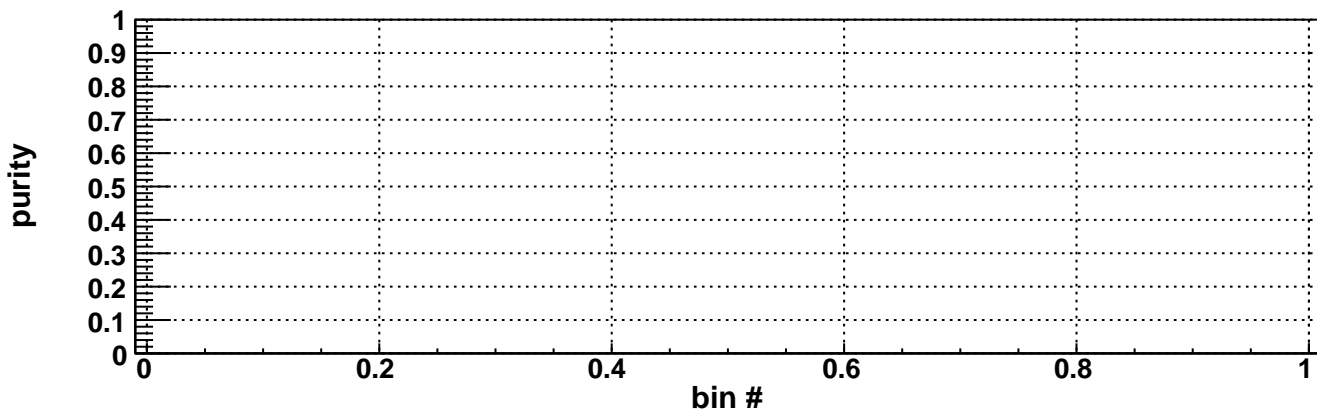
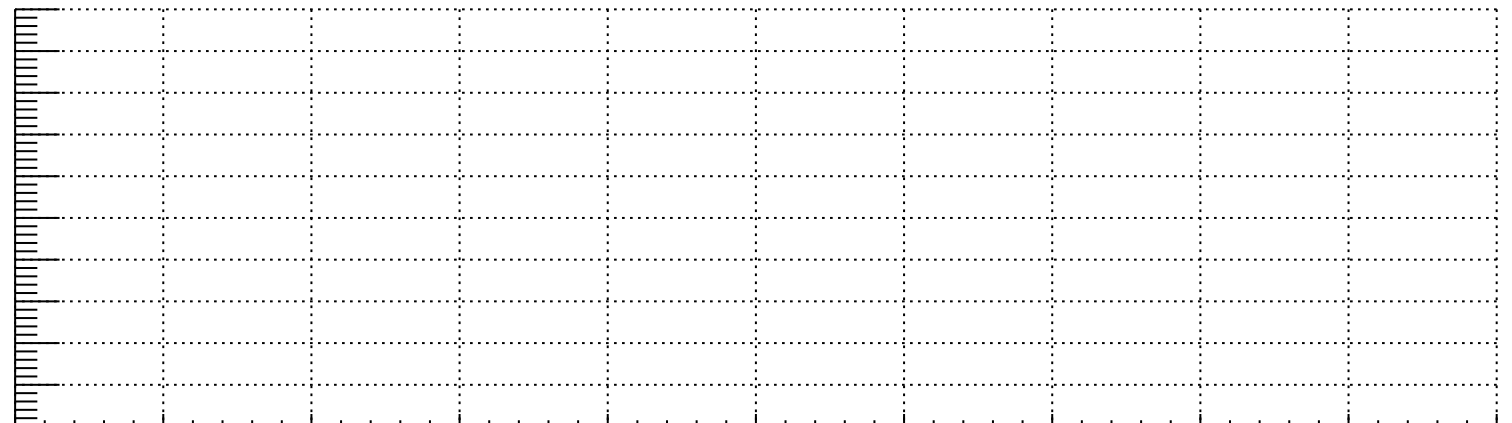
added signi. 4.46

signi. loss 4.46

PrePro: 12 #9

only this 22.73

corr. to others 18.90%



separation

Input node 10 : lep_etacentrality

12th most important

added signi. 0.50

signi. loss 0.50

PrePro: 12 #10

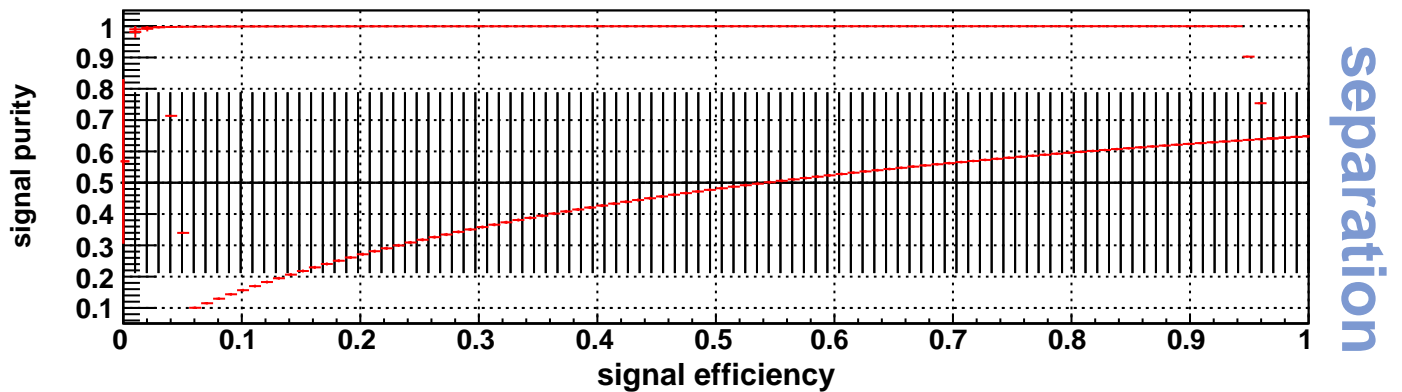
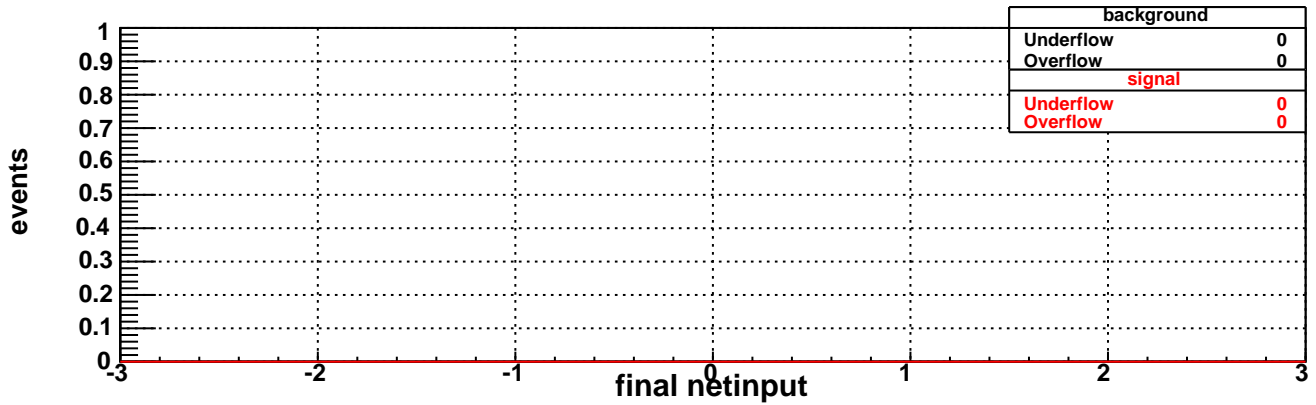
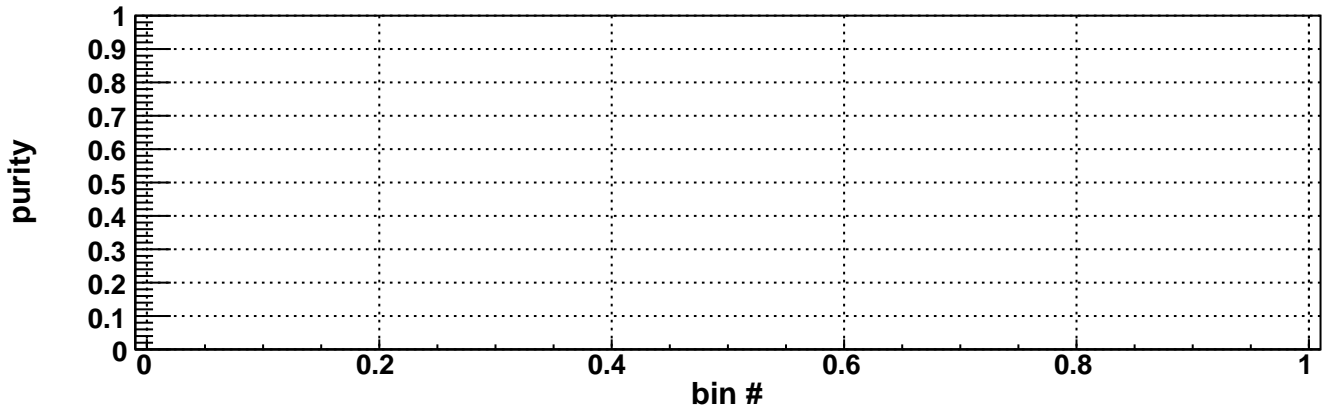
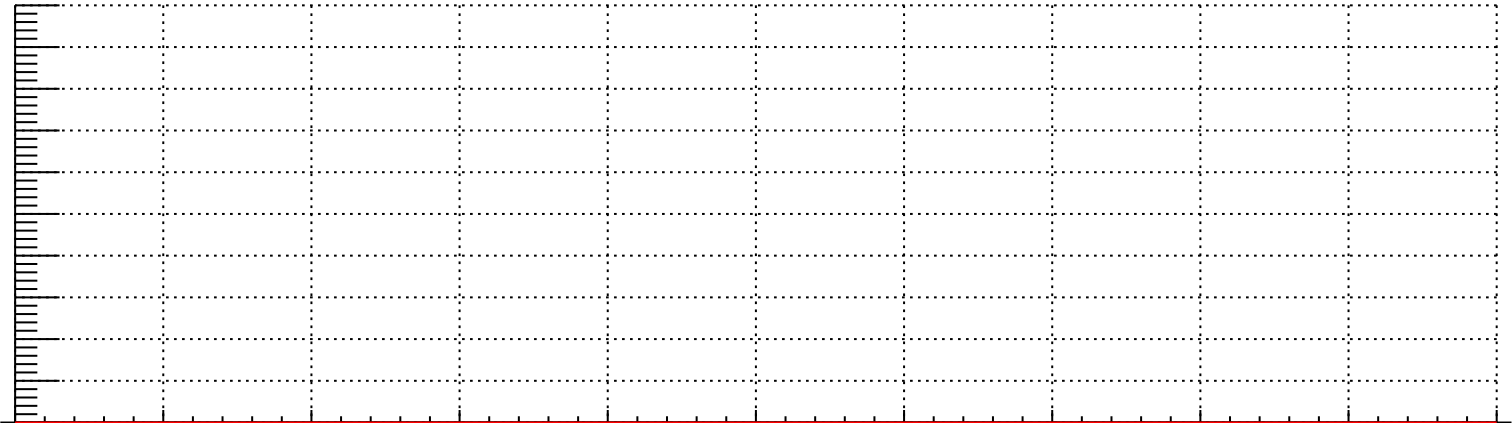
only this 23.79

corr. to others 41.40%

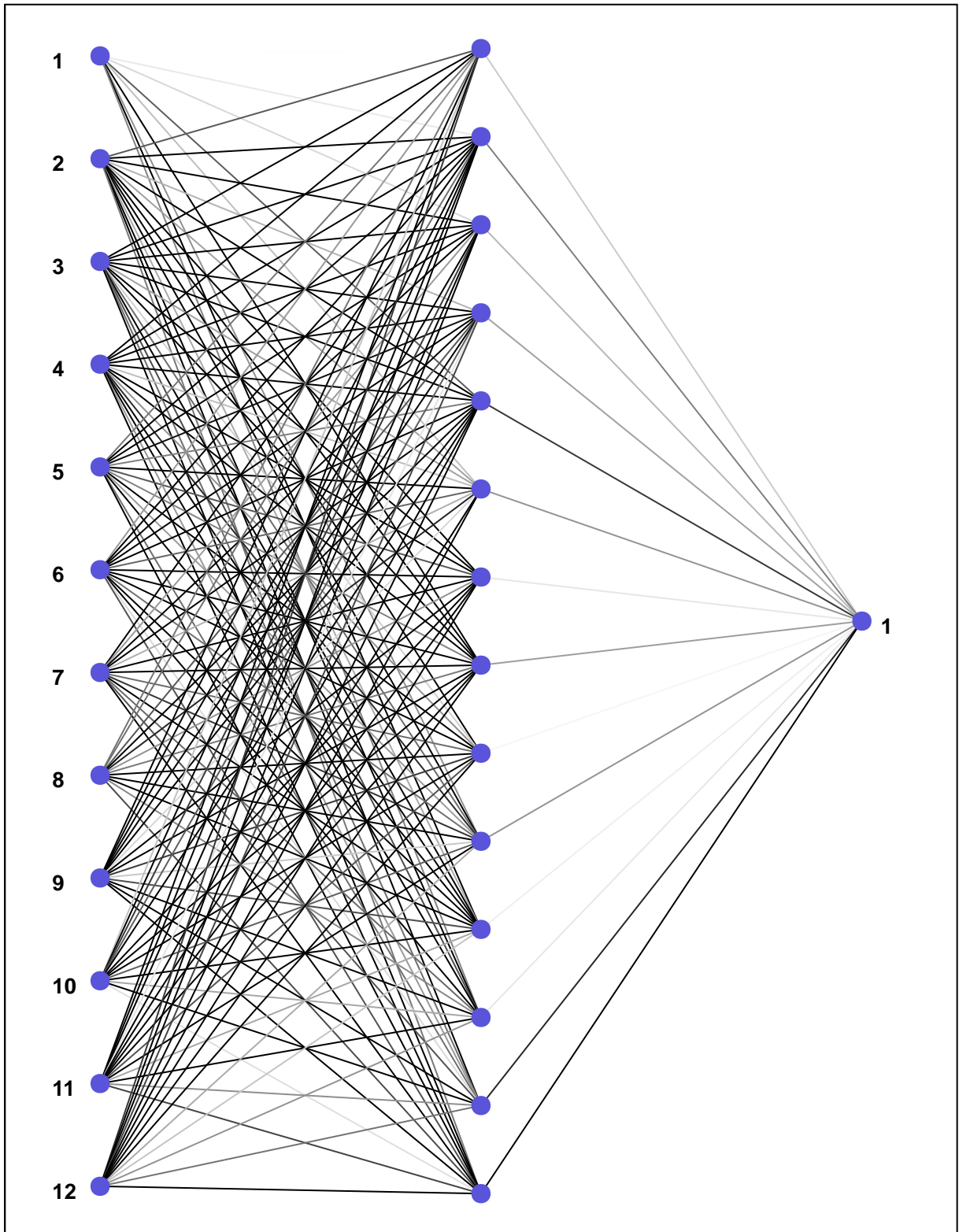


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Network at iteration 100



input layer

hidden layer

output layer