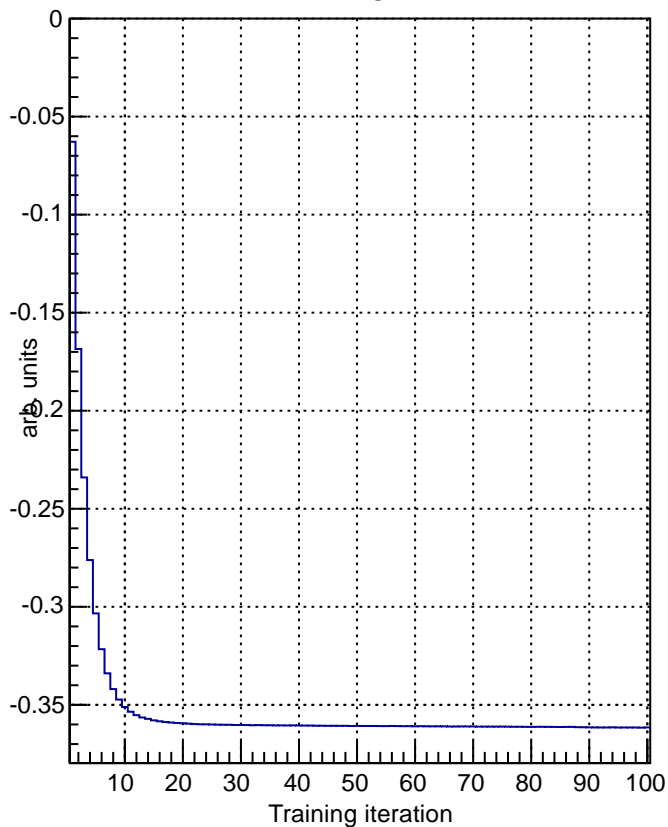
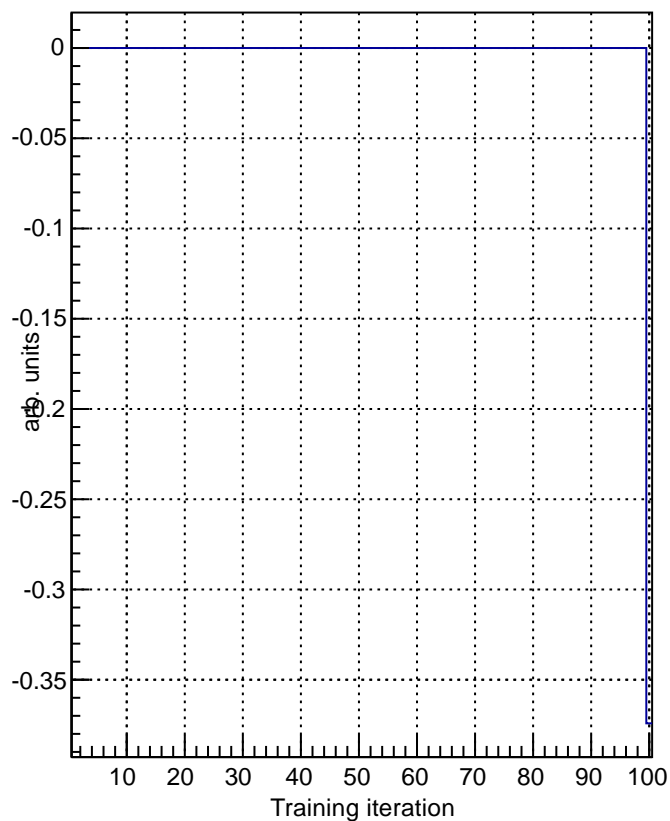


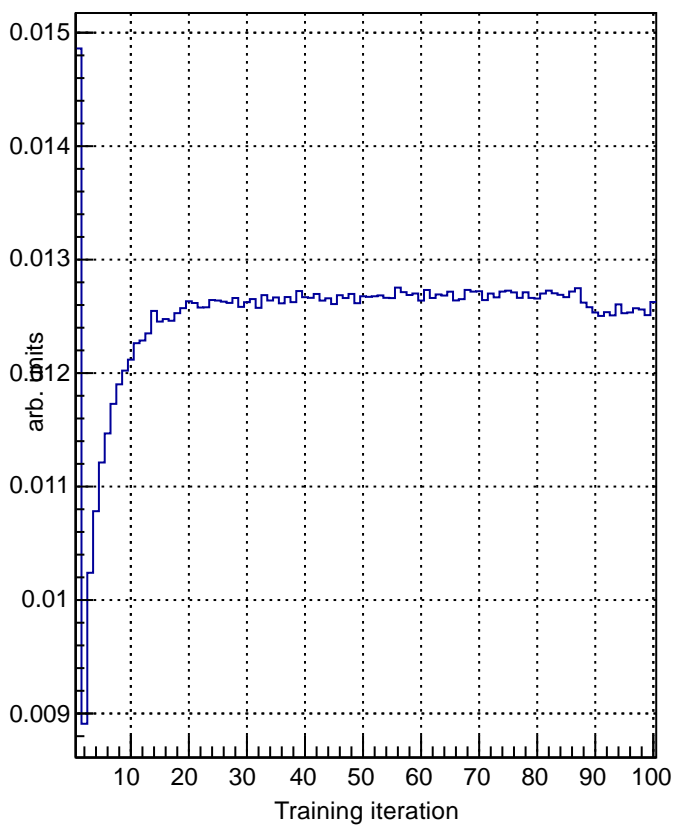
Error



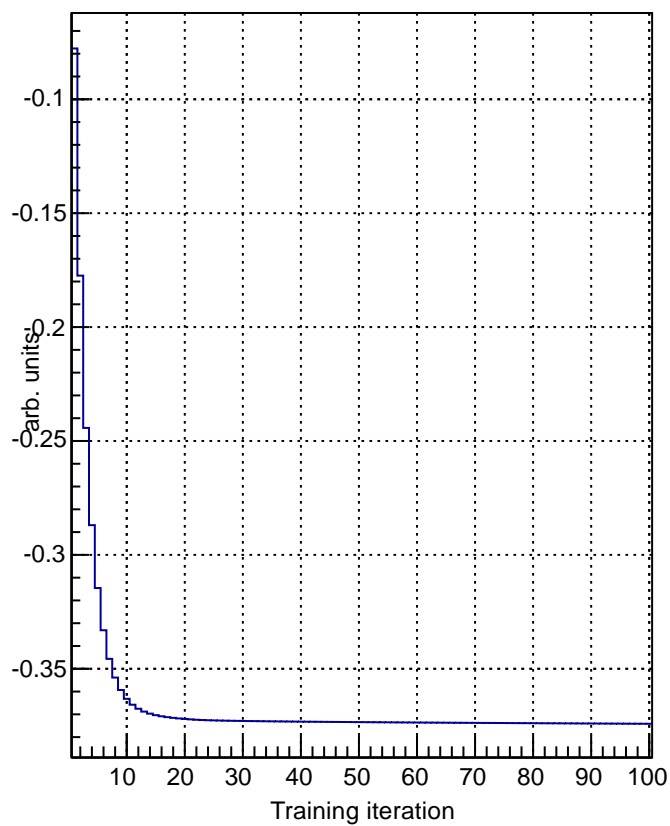
Error Testsample



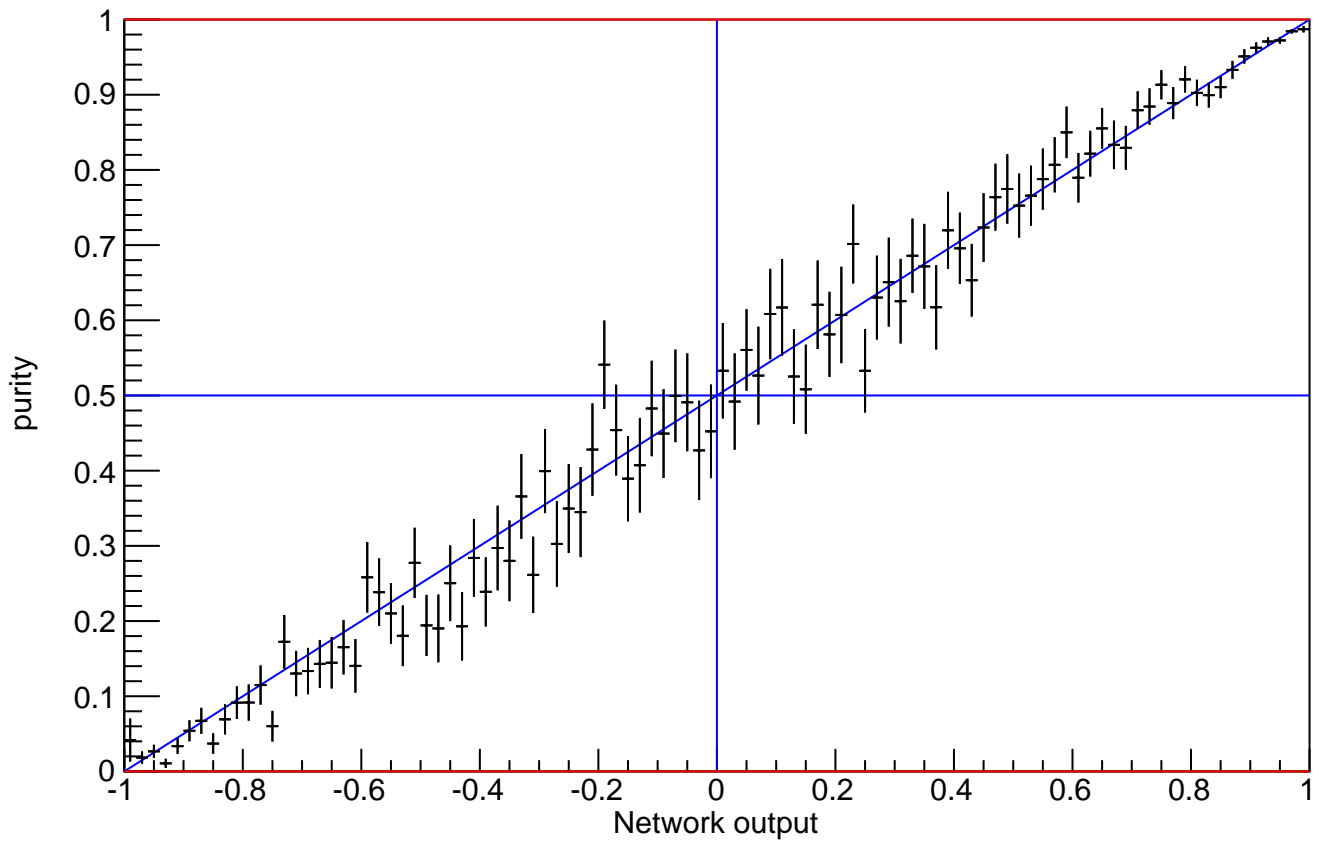
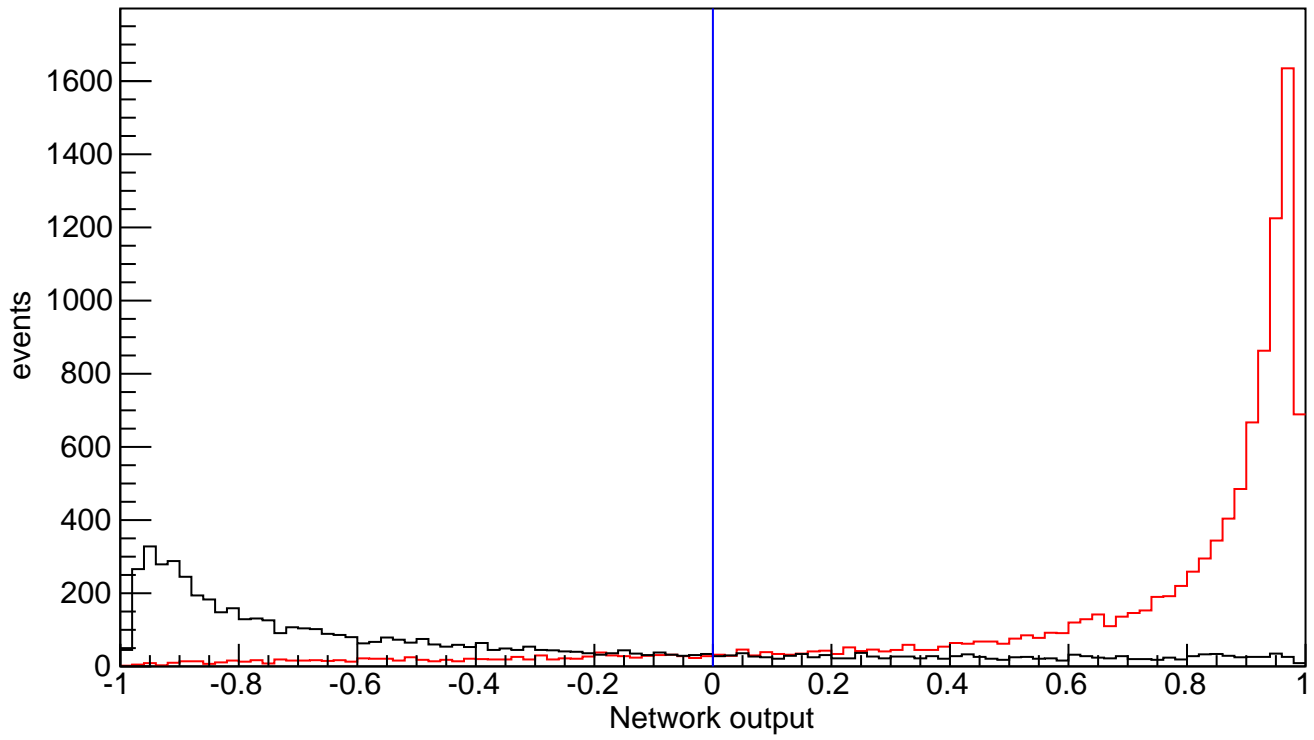
regularisation param. * weights

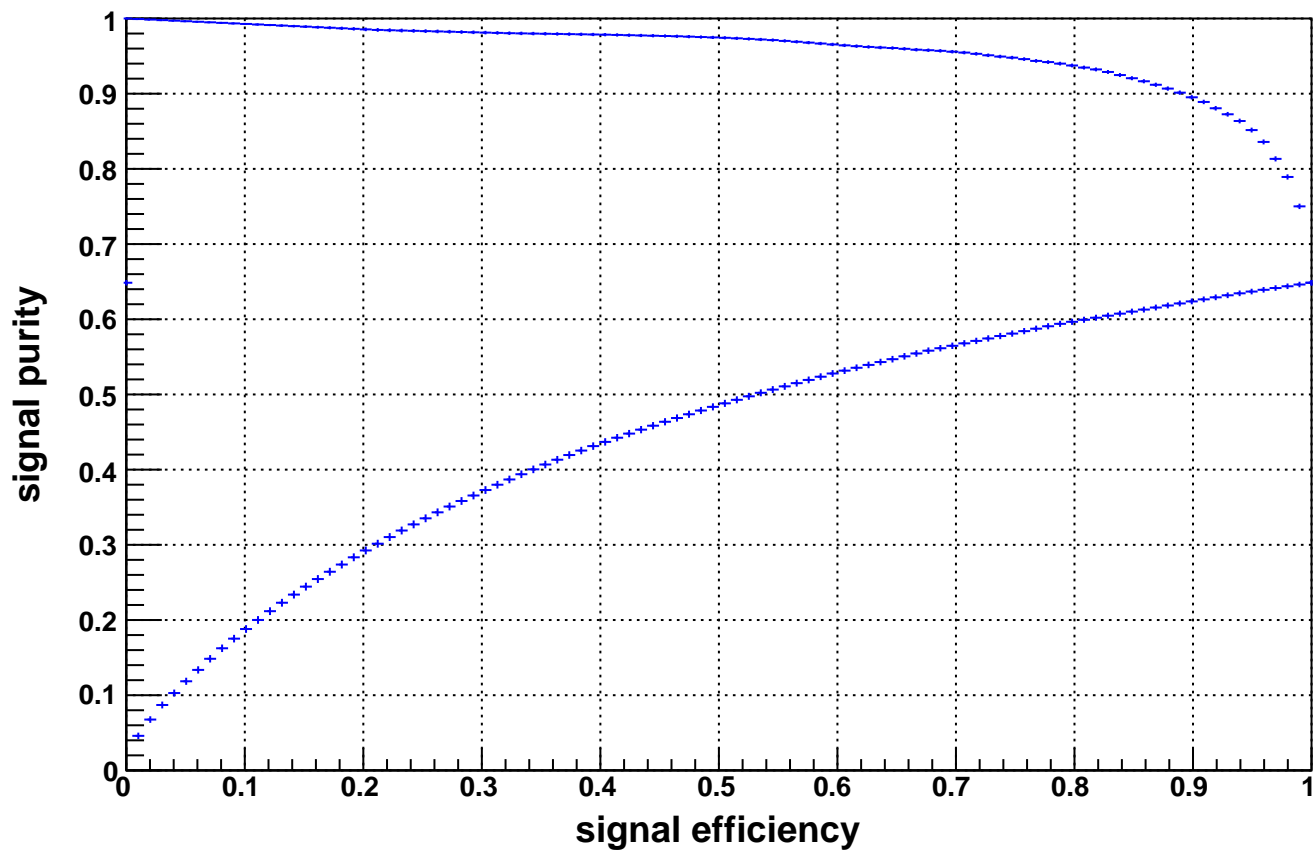


Err-Weight Learnsample

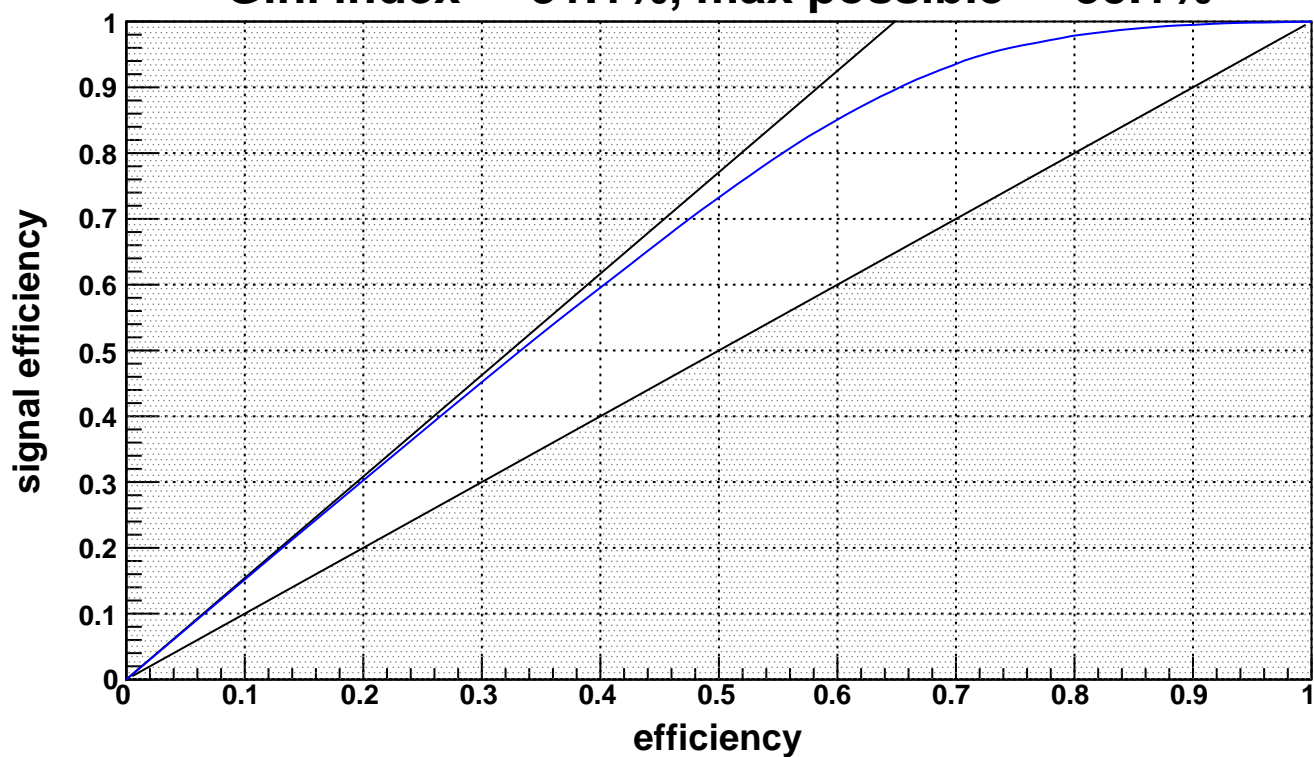


Output Node 1 (n = 16835 s = 10919 b = 5916 $p_{\text{sig}} = 0.6486$)

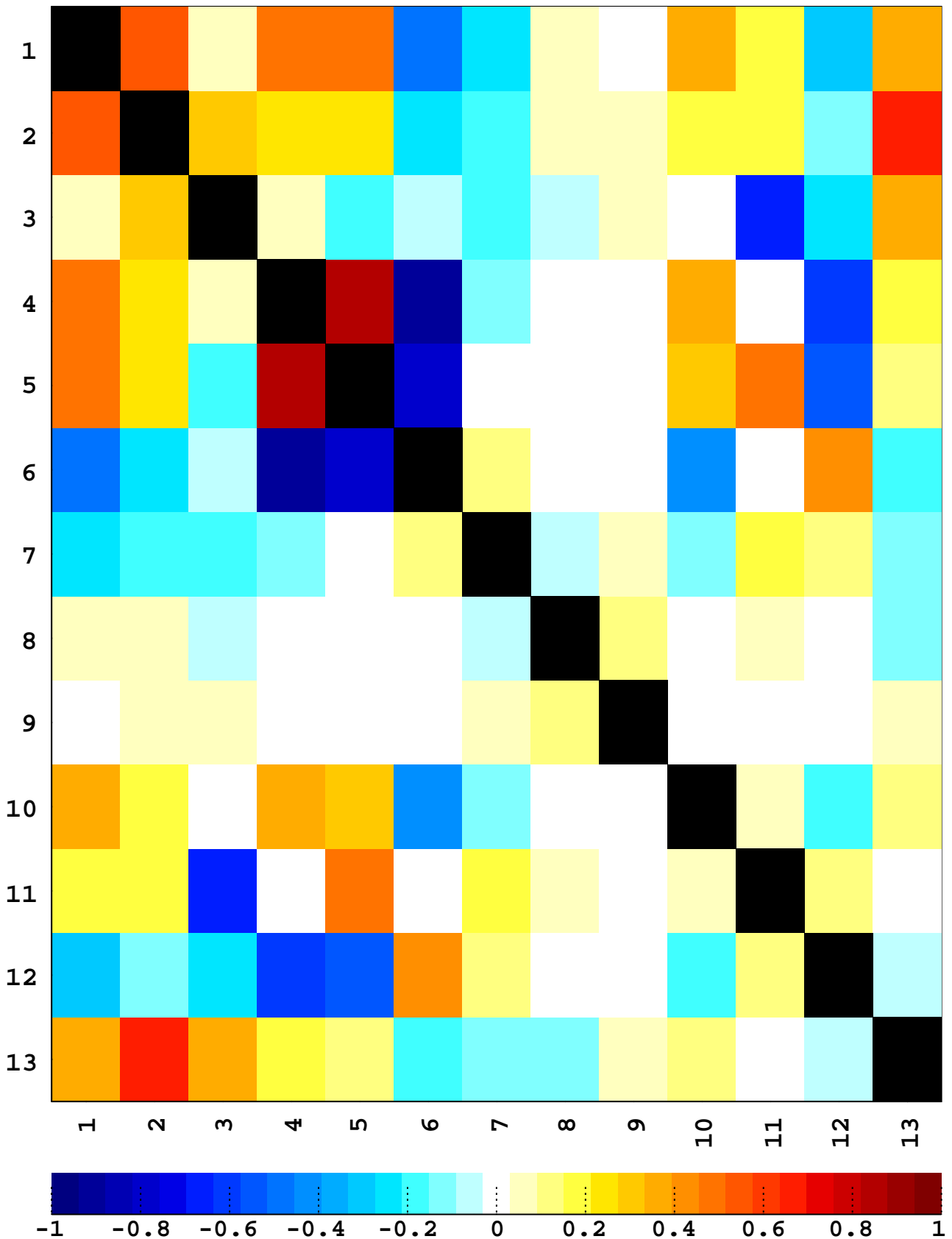




Gini index = 31.1%, max possible = 35.1%



correlation matrix of input variables



Input node 2 : svfit_mass

1st most important

added signi. 68.51

signi. loss 25.72

PrePro: 12 #2

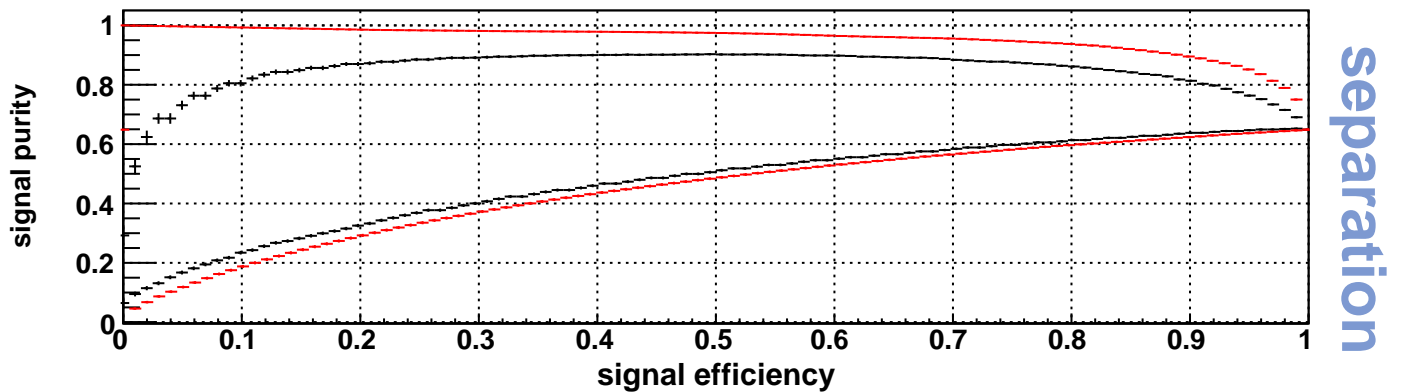
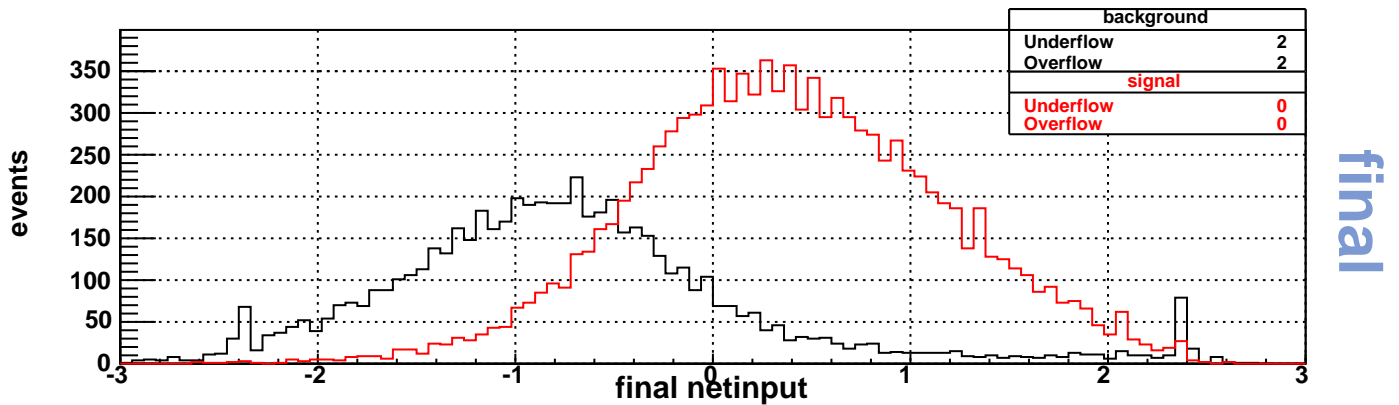
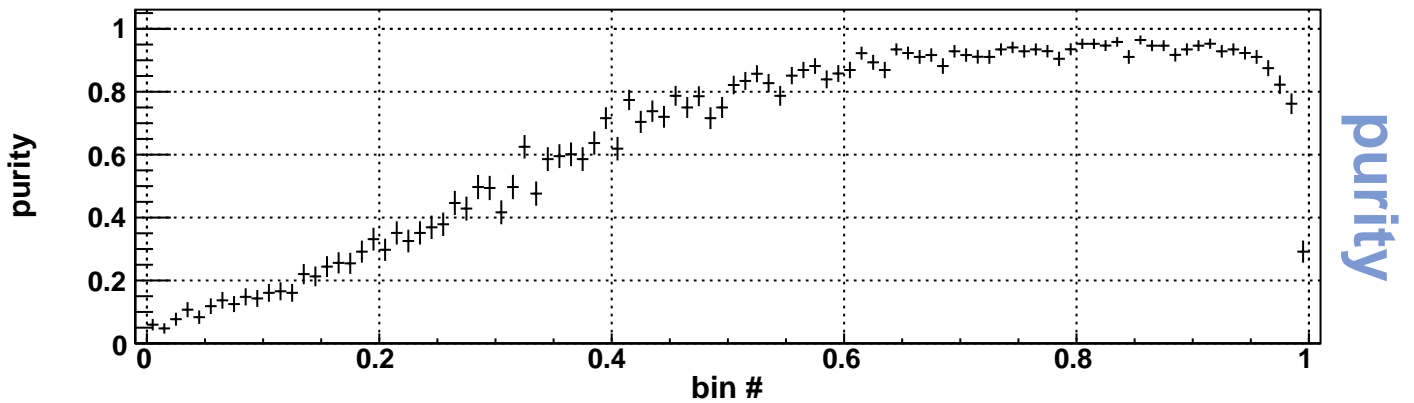
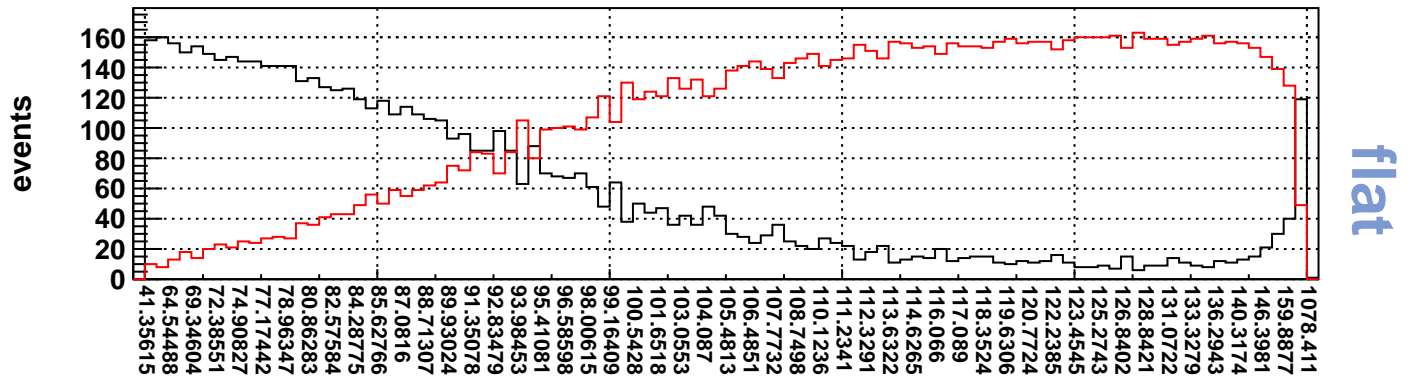
only this 68.51

corr. to others 82.00%



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Input node 5 : mjj

2nd most important

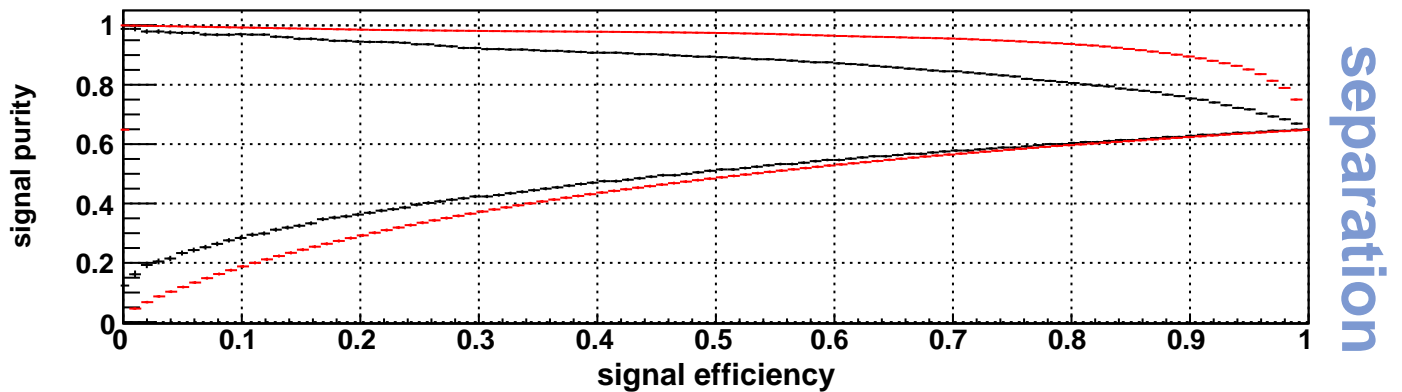
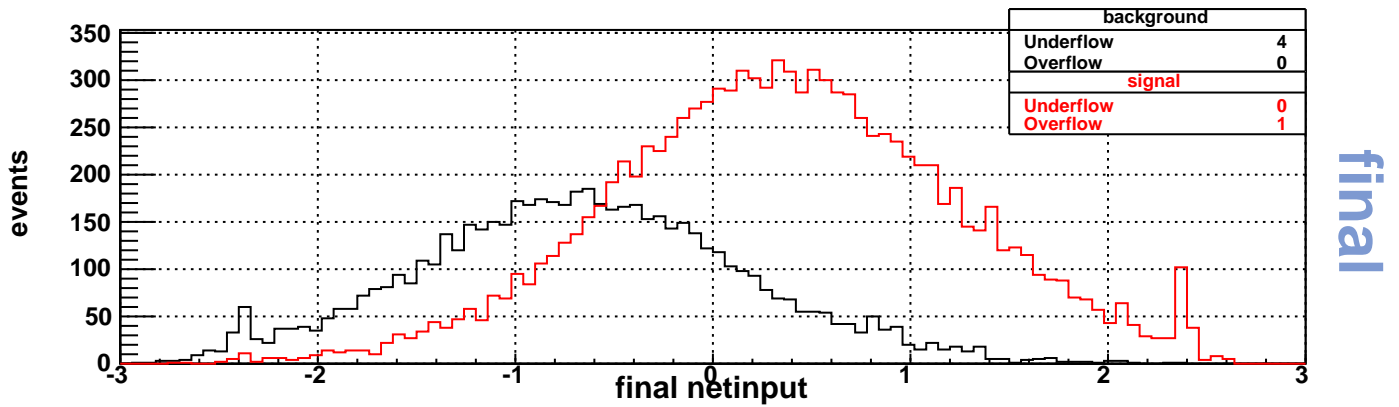
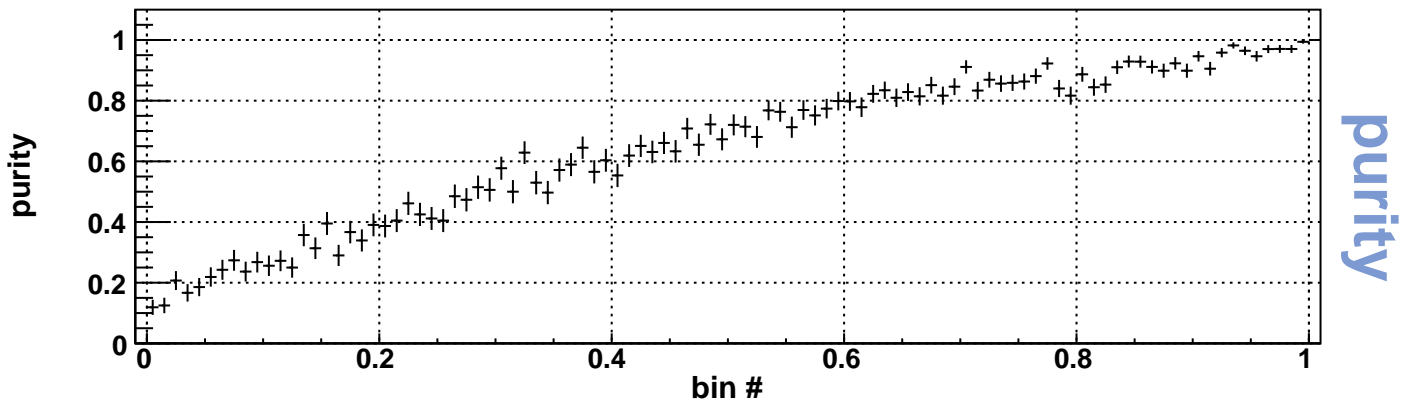
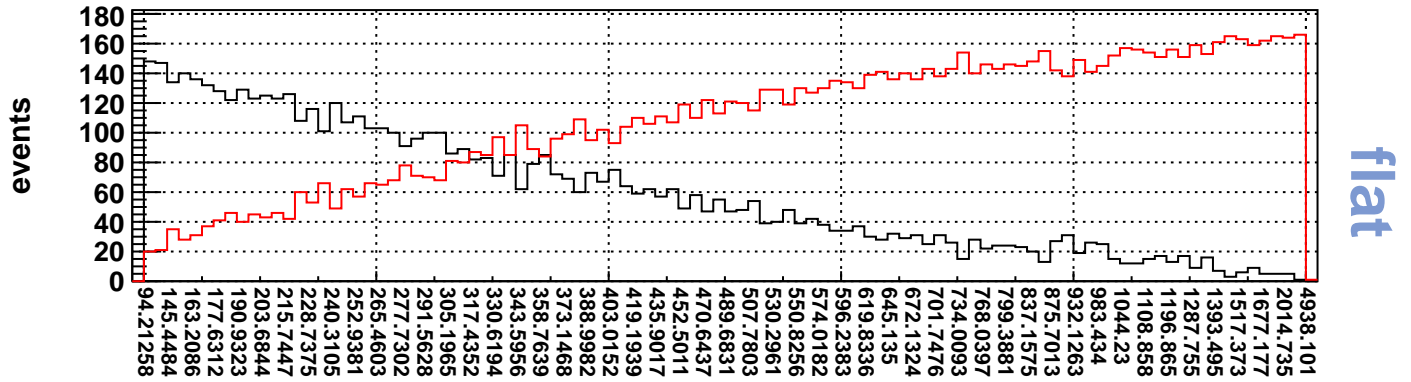
added signi. 50.02

signi. loss 5.11

PrePro: 12 #5

only this 64.48

corr. to others 96.90%



Input node 7 : pt_tot

3rd most important

added signi. 23.60

signi. loss 19.16

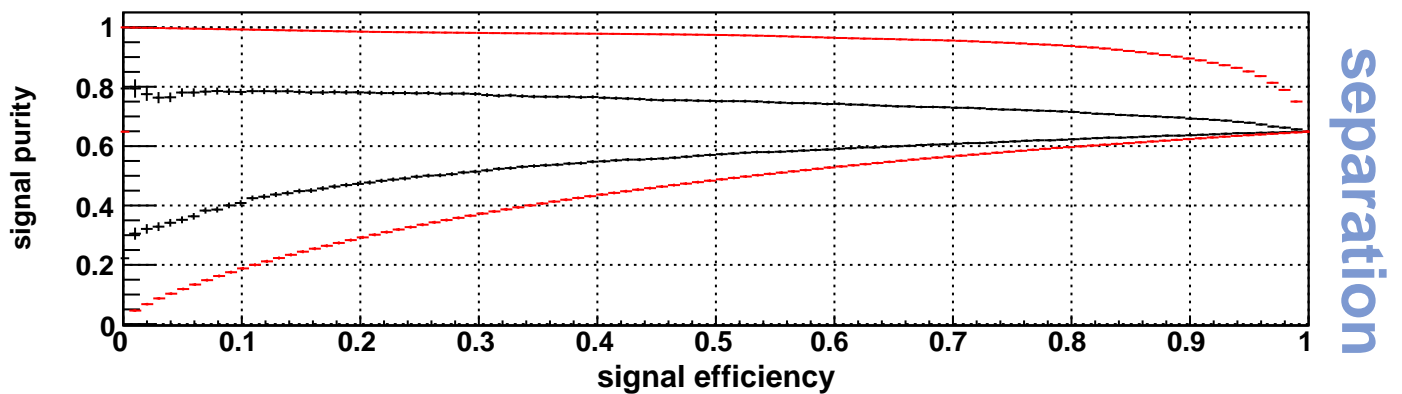
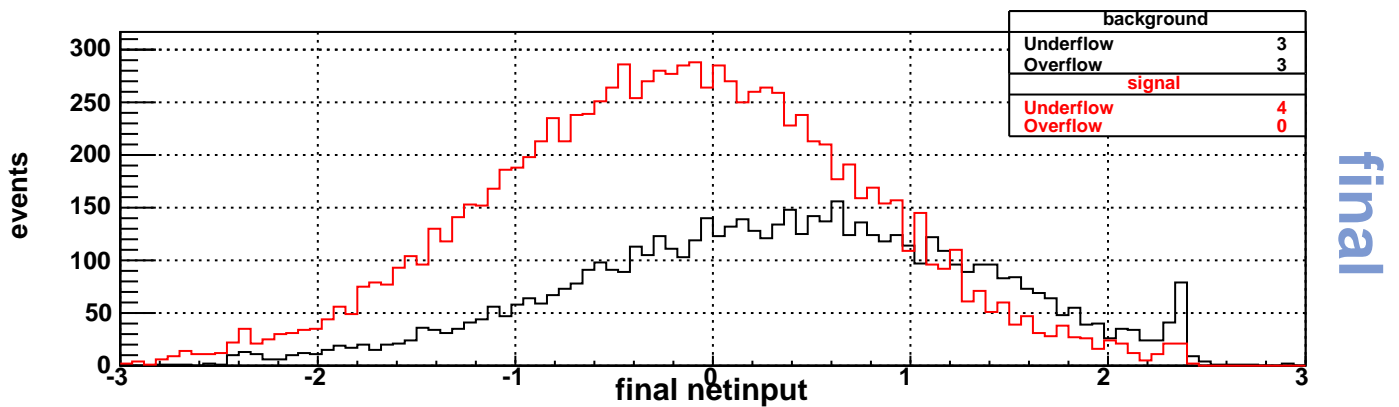
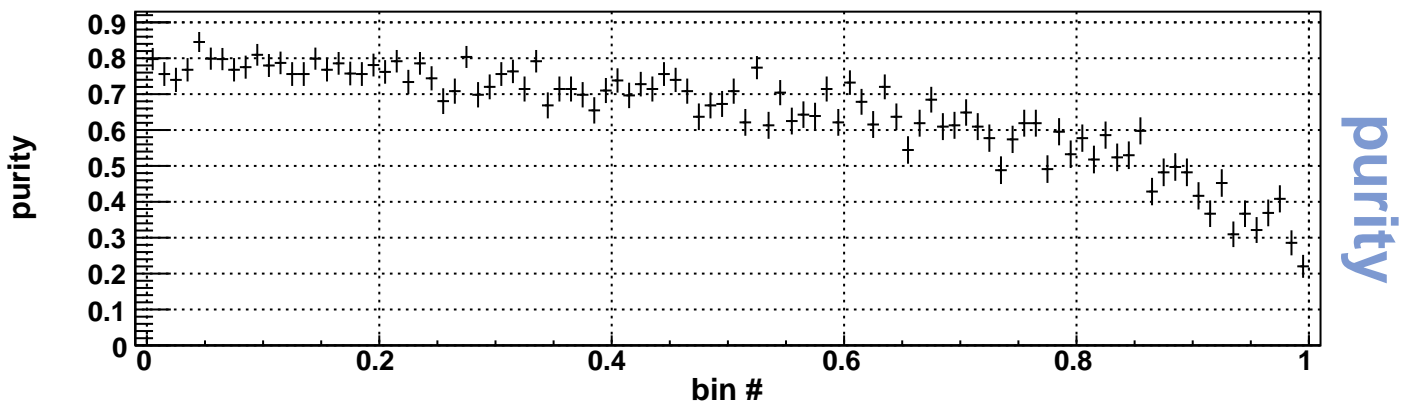
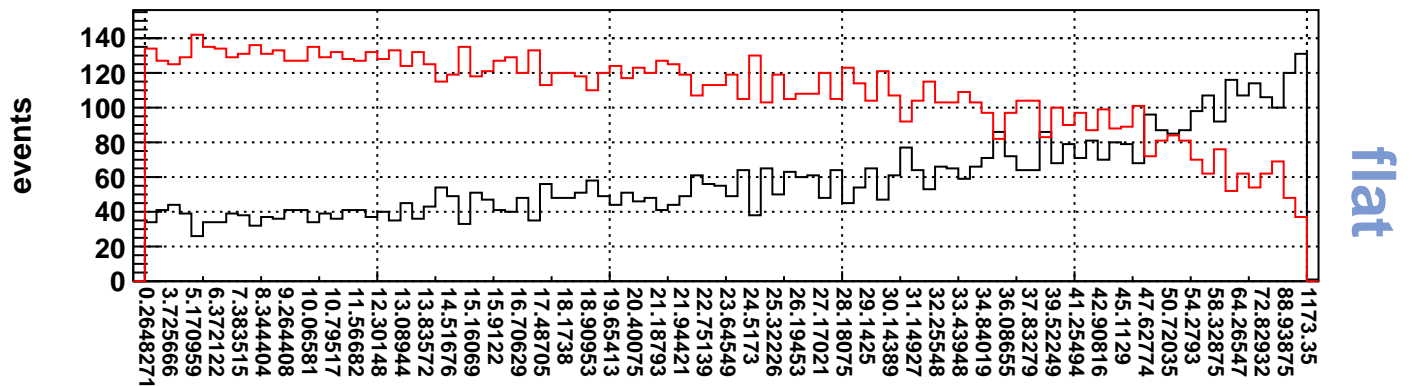
PrePro: 12 #7

only this 32.65

corr. to others 30.00%

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Input node 10 : lep_etacentrality

4th most important

added signi. 21.05

signi. loss 18.65

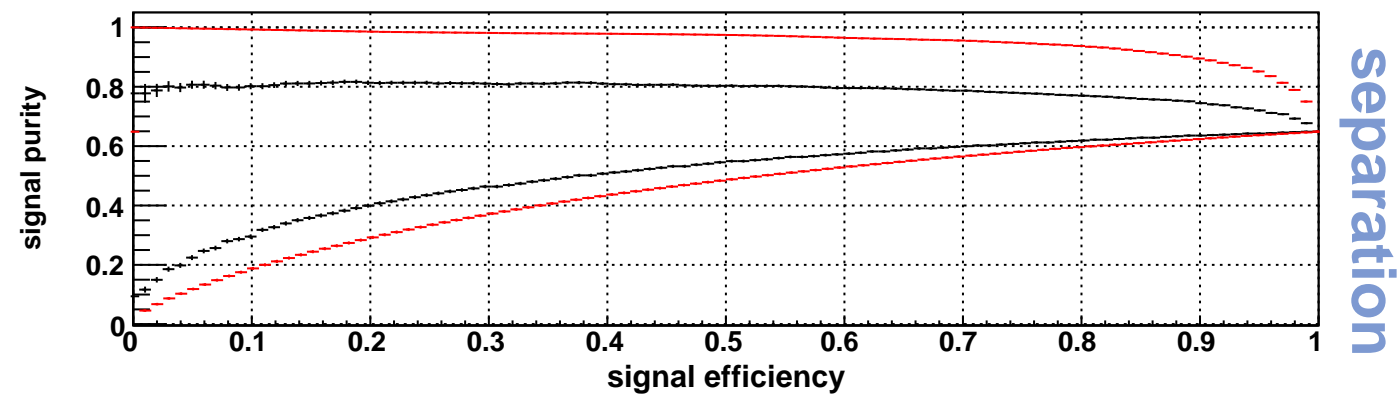
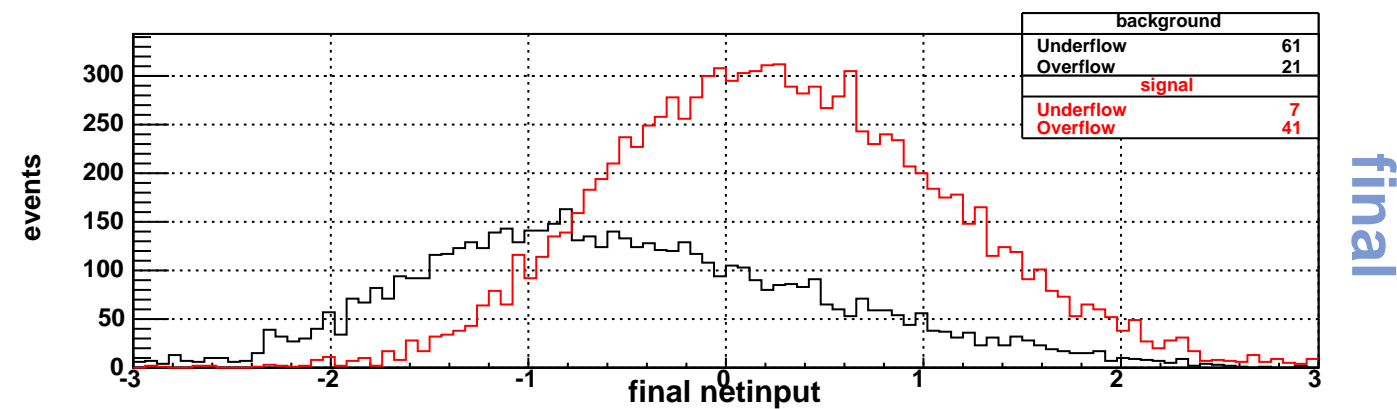
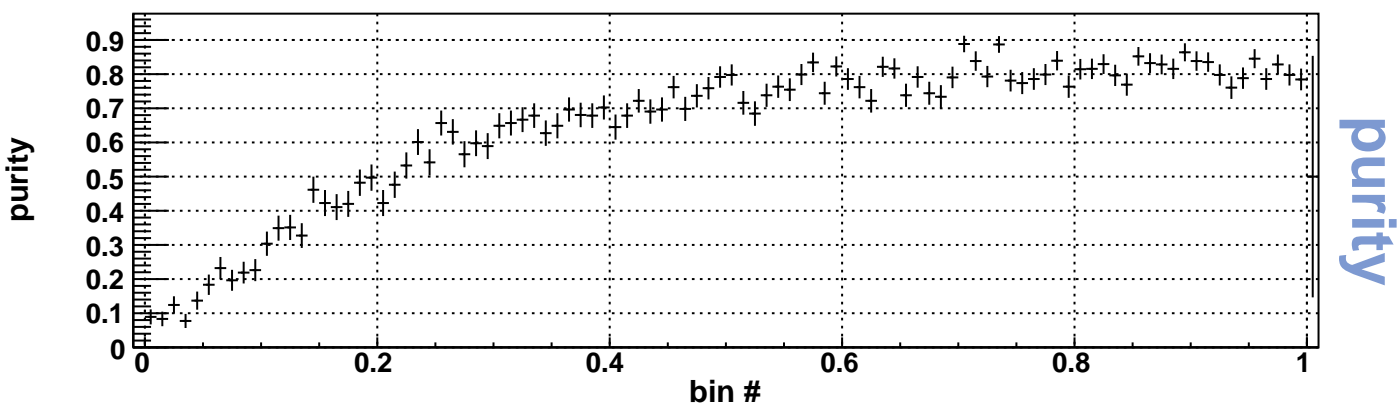
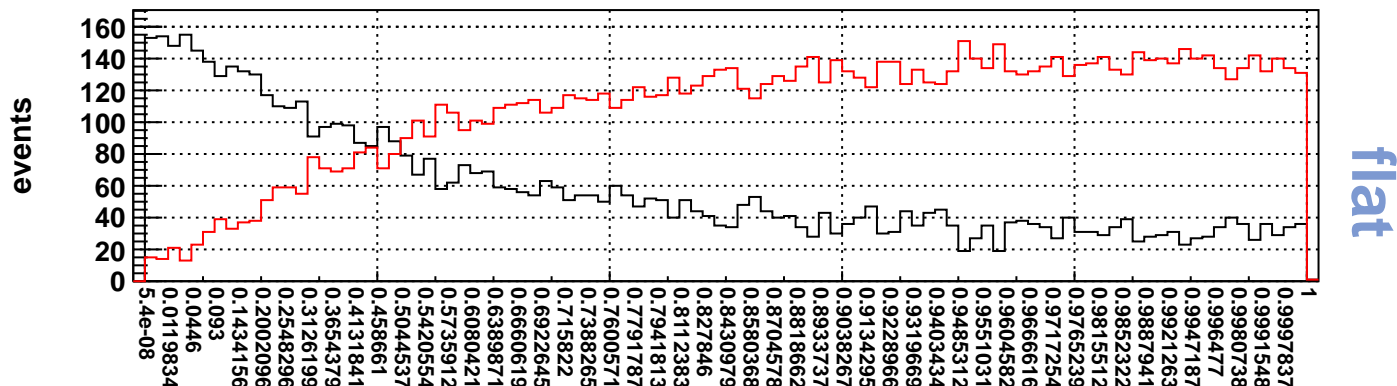
PrePro: 12 #10

only this 49.46

corr. to others 45.30%

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Input node 4 : jdeta

5th most important

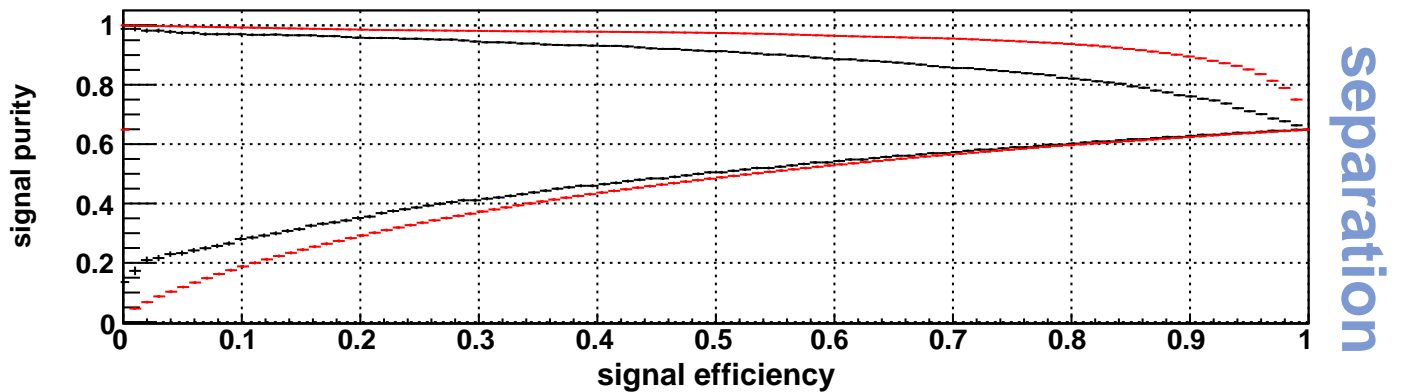
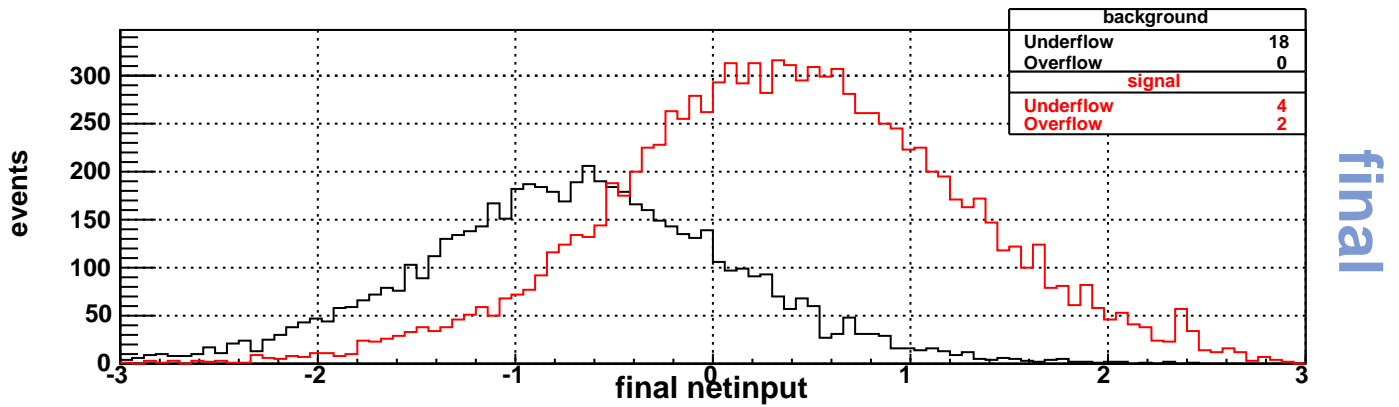
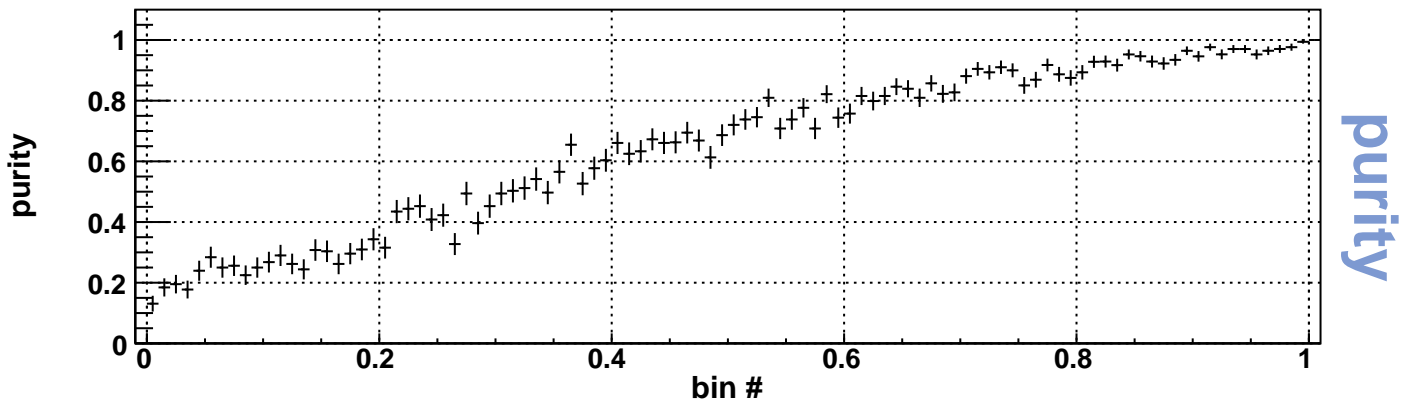
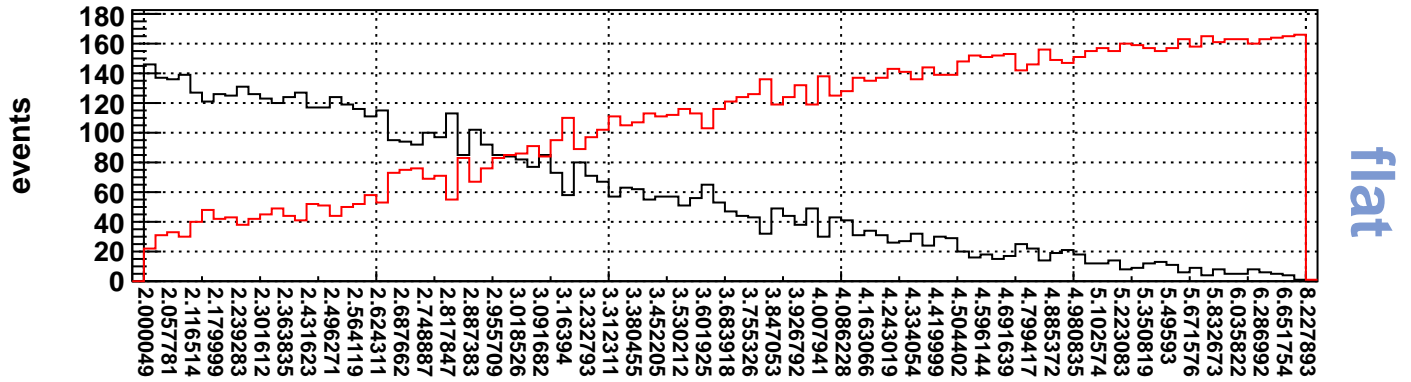
added signi. 10.03

signi. loss 8.92

PrePro: 12 #4

only this 66.76

corr. to others 95.70%



Input node 11 : pt_sum

6th most important

added signi. 4.72

signi. loss 2.50

PrePro: 12 #11

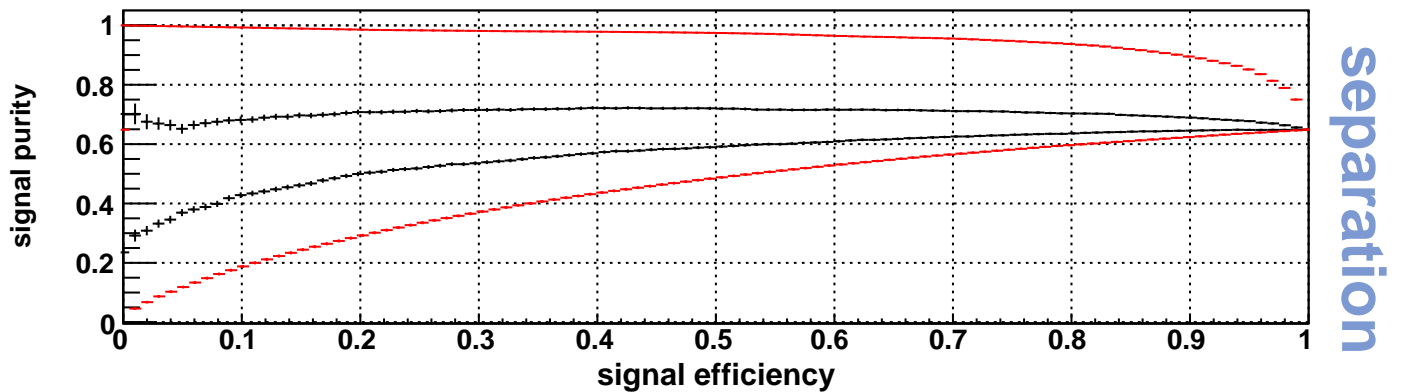
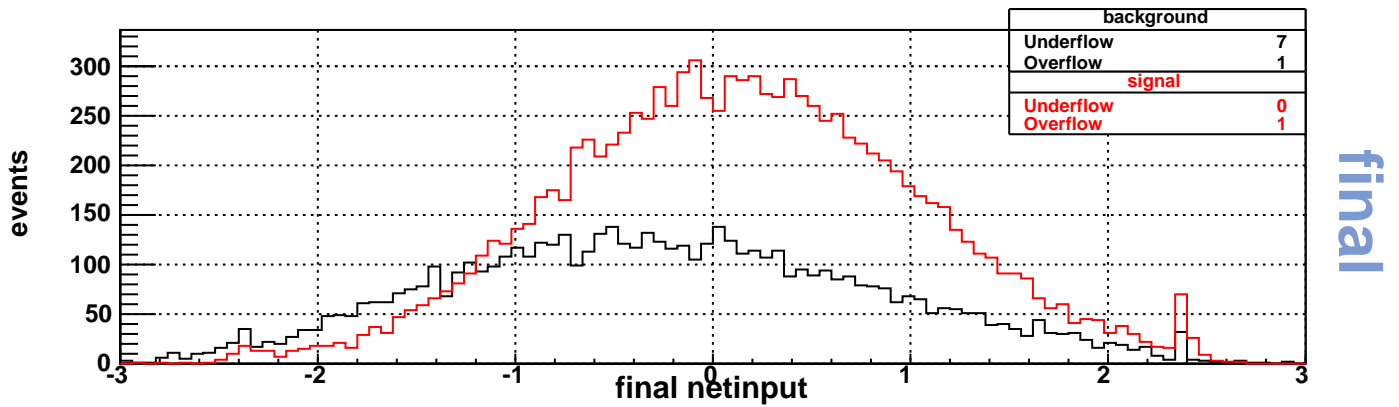
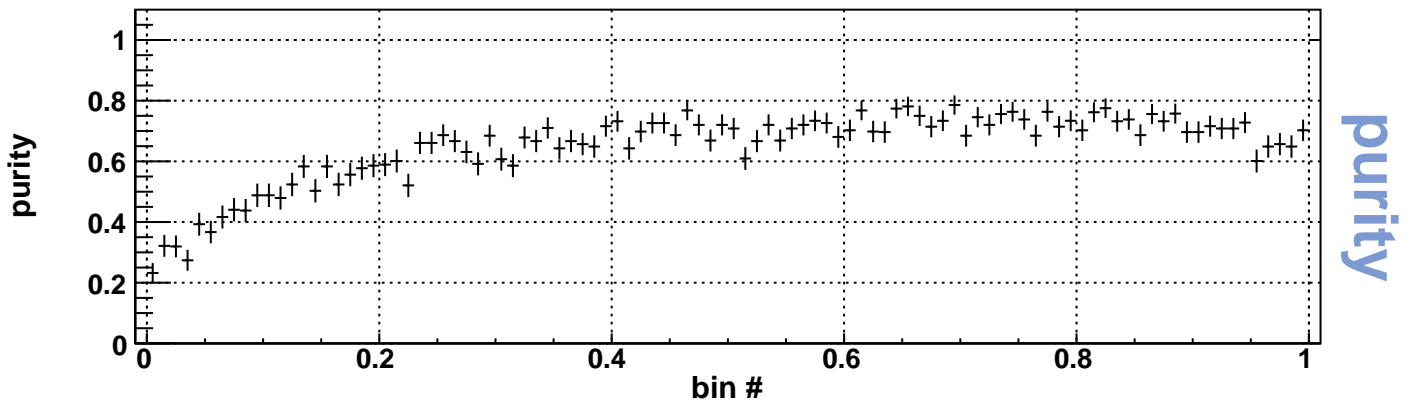
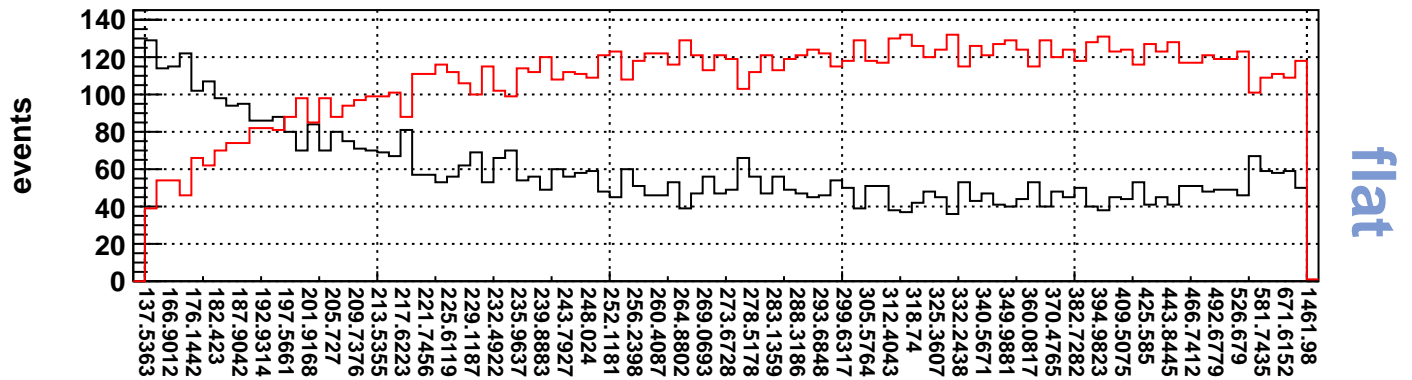
only this 24.09

corr. to others 94.10%



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Input node 13 : mvis

7th most important

added signi. 4.04

signi. loss 4.12

PrePro: 12 #13

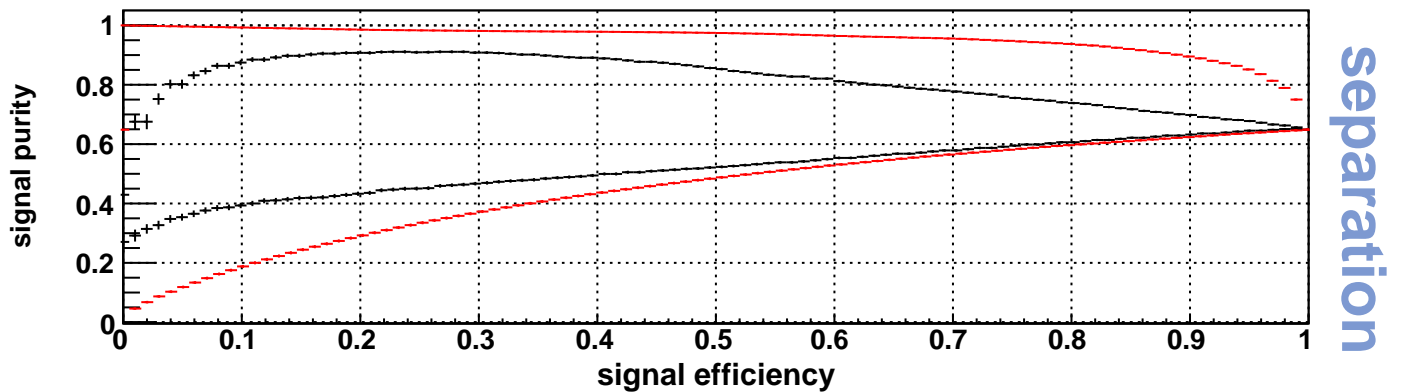
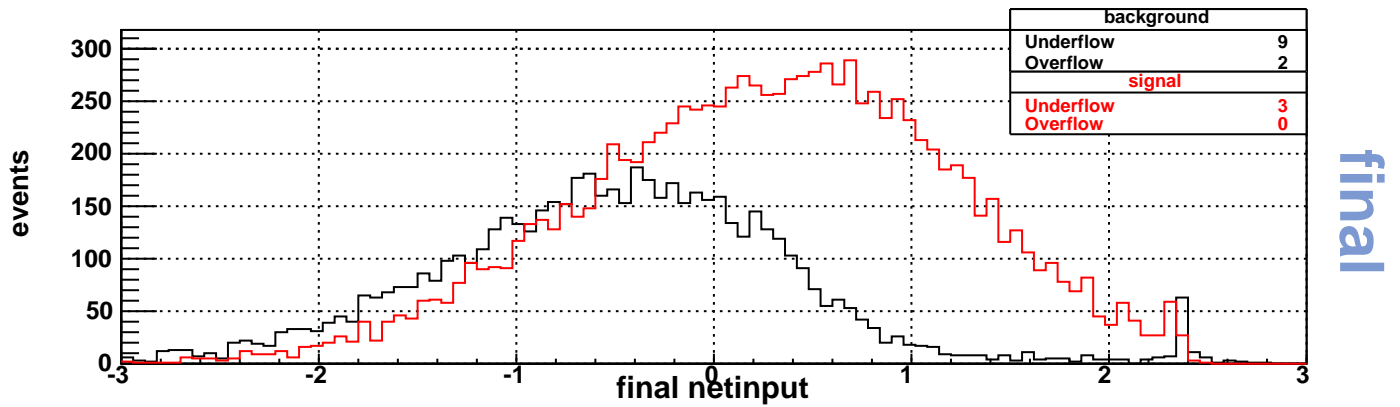
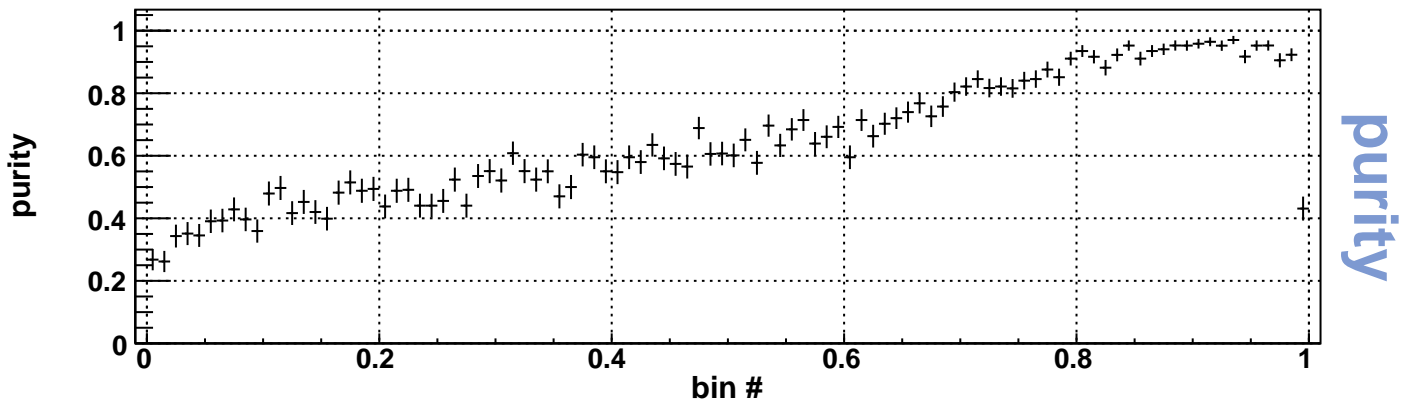
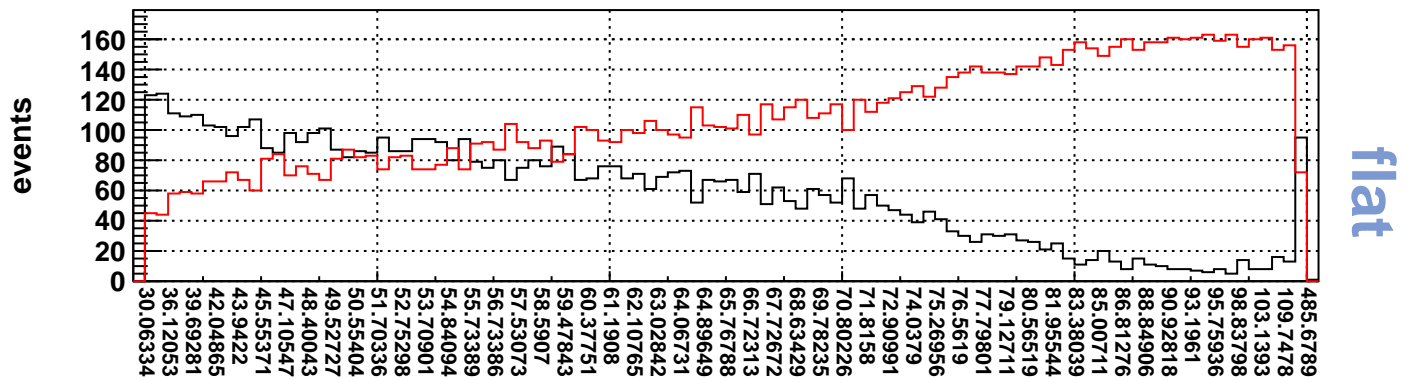
only this 47.56

corr. to others 72.00%



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Input node 6 : jeta1eta2

8th most important

added signi. 1.68

signi. loss 1.63

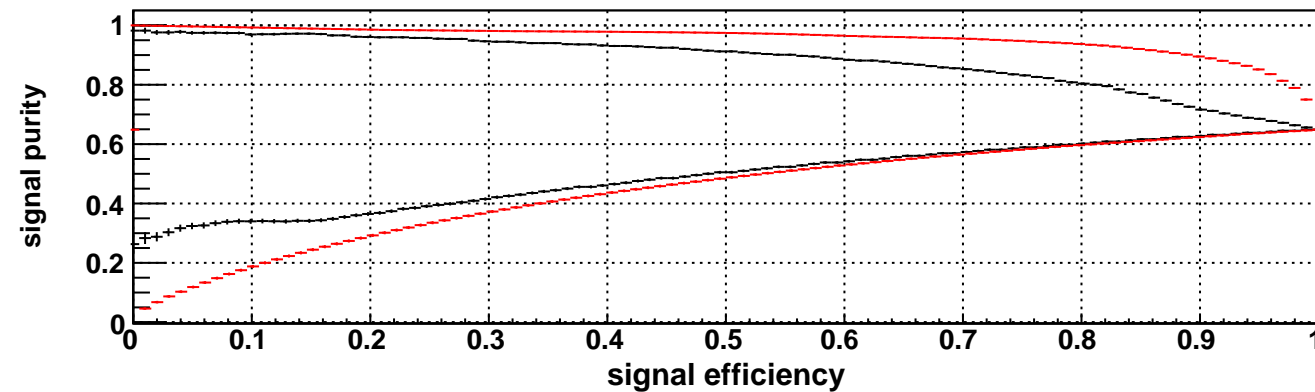
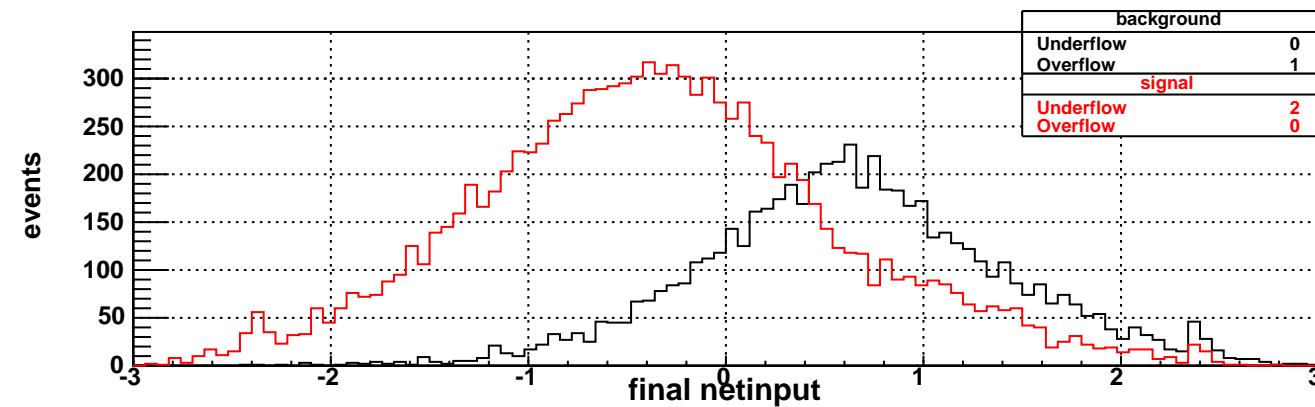
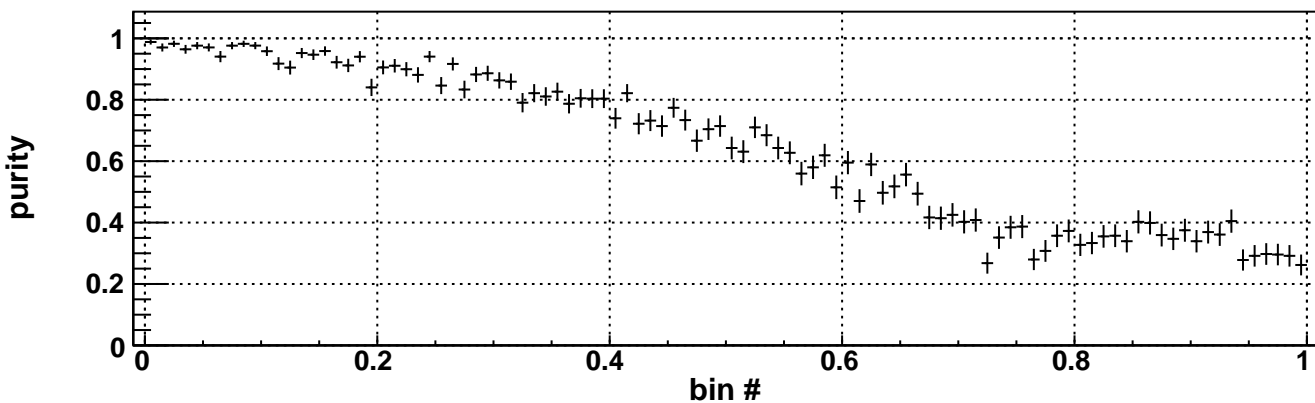
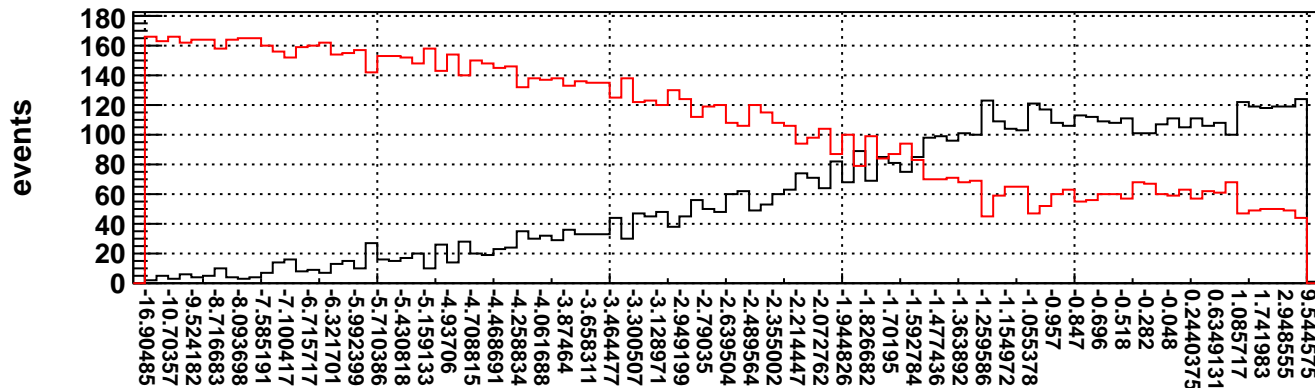
PrePro: 12 #6

only this 61.93

corr. to others 92.20%

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Input node 8 : met centrality

9th most important

added signi. 1.34

signi. loss 1.17

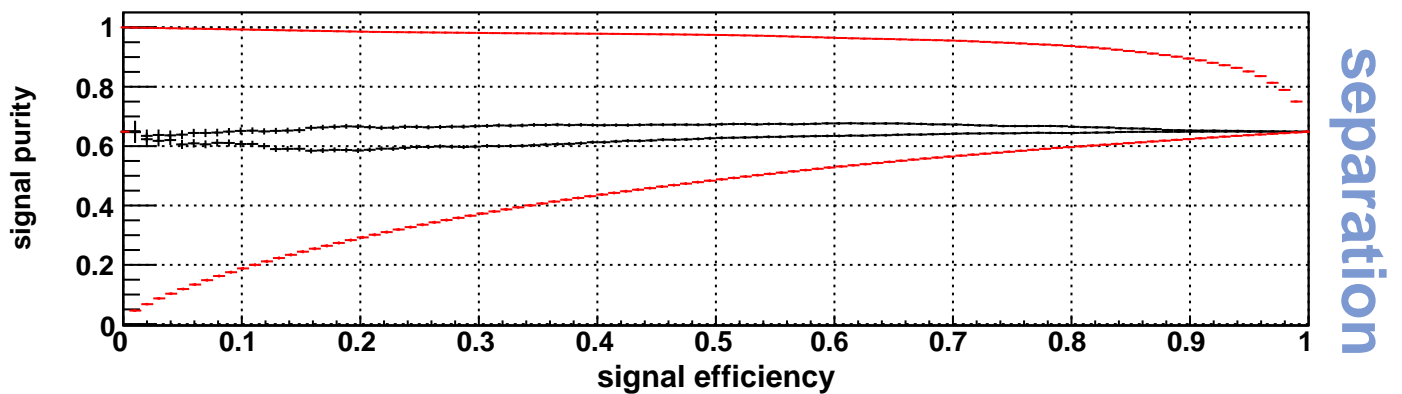
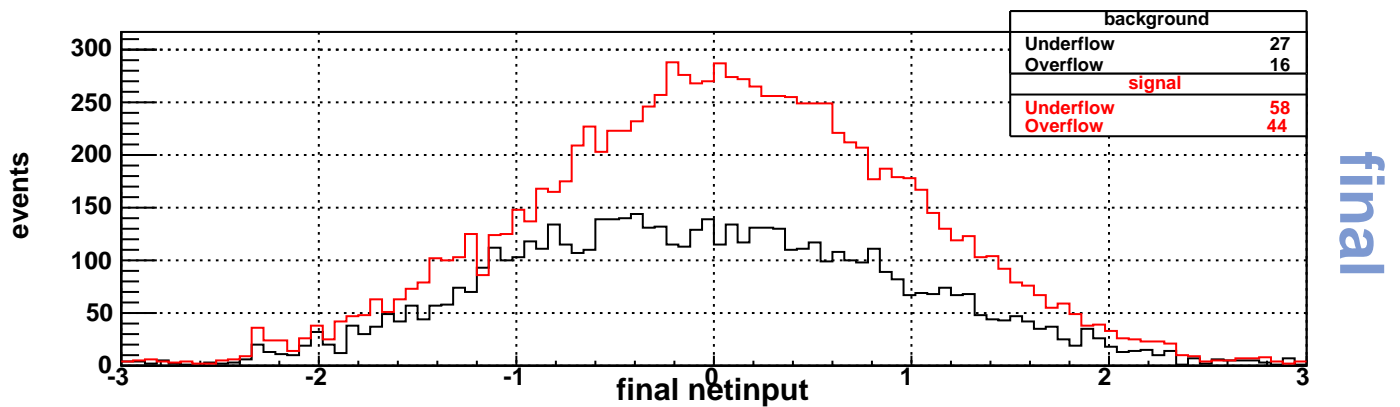
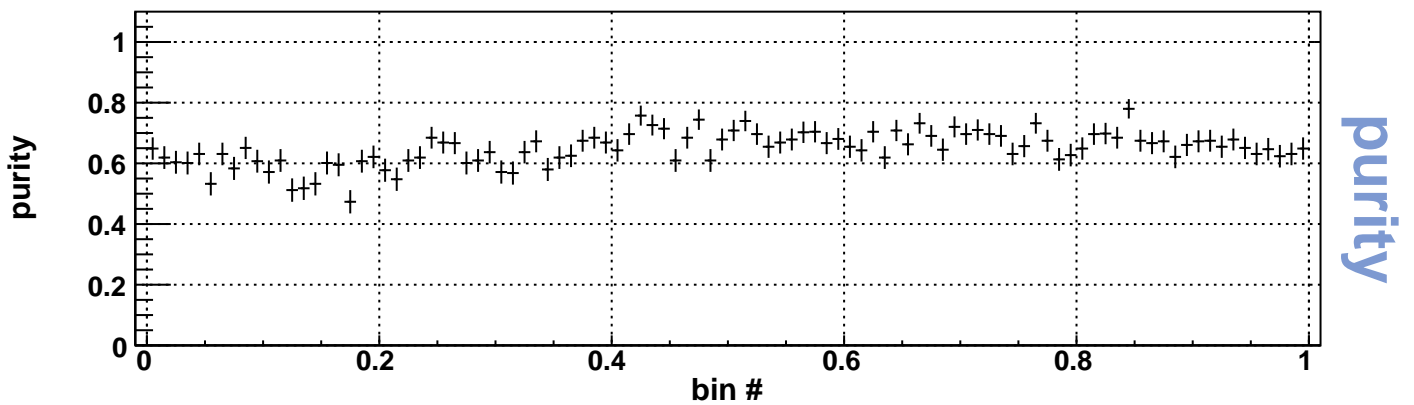
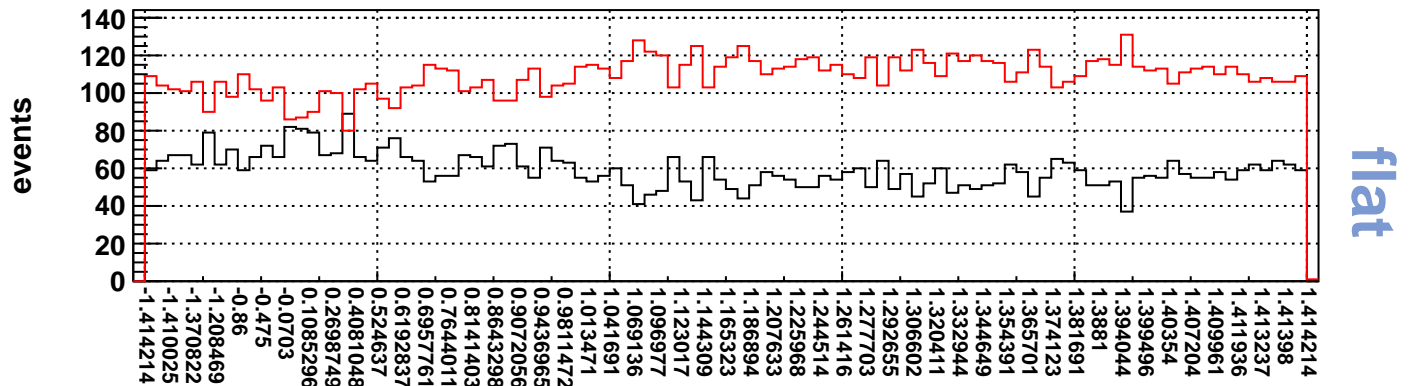
PrePro: 12 #8

only this 6.43

corr. to others 31.40%

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Input node 3 : dr_leptau

10th most important

added signi. 1.00

signi. loss 0.95

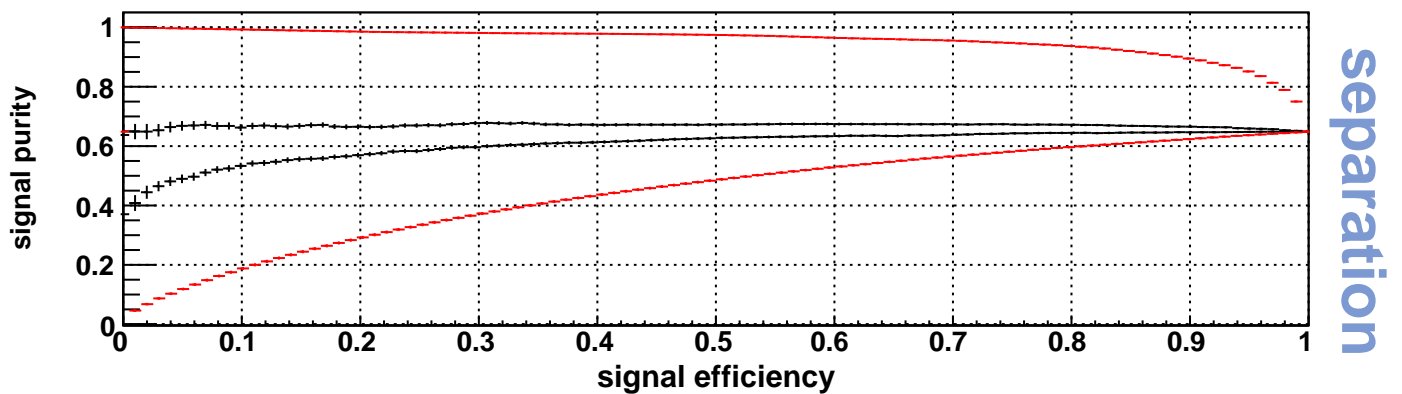
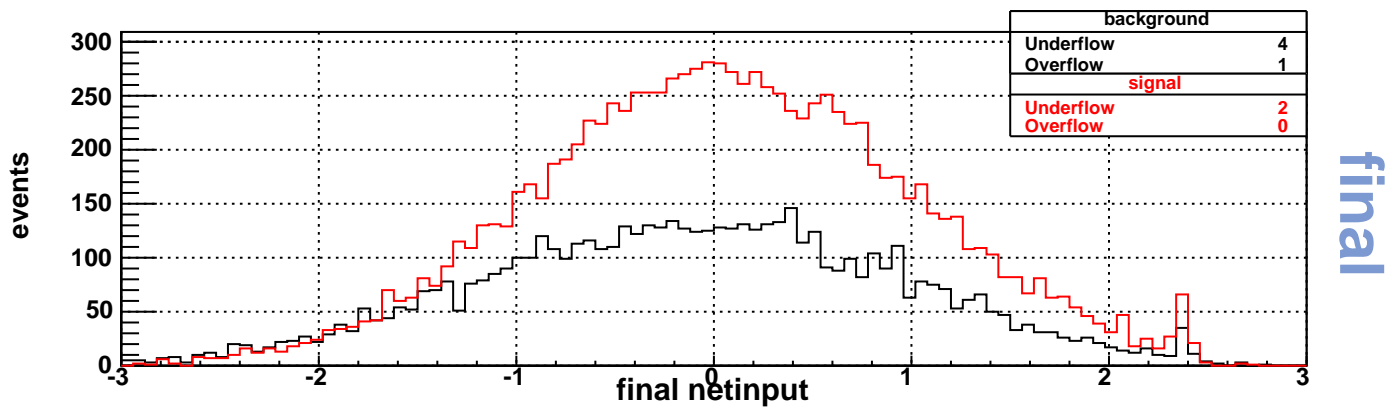
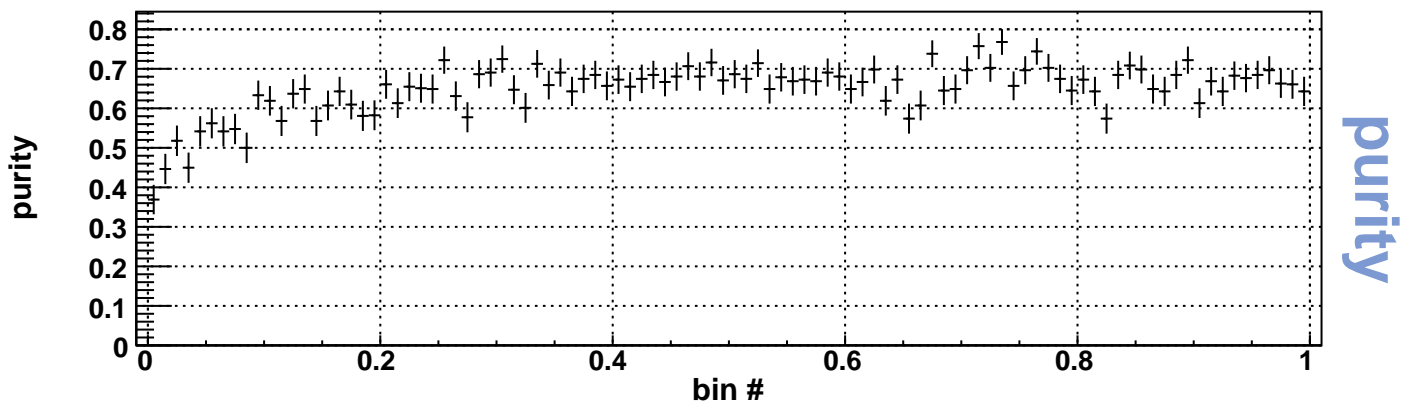
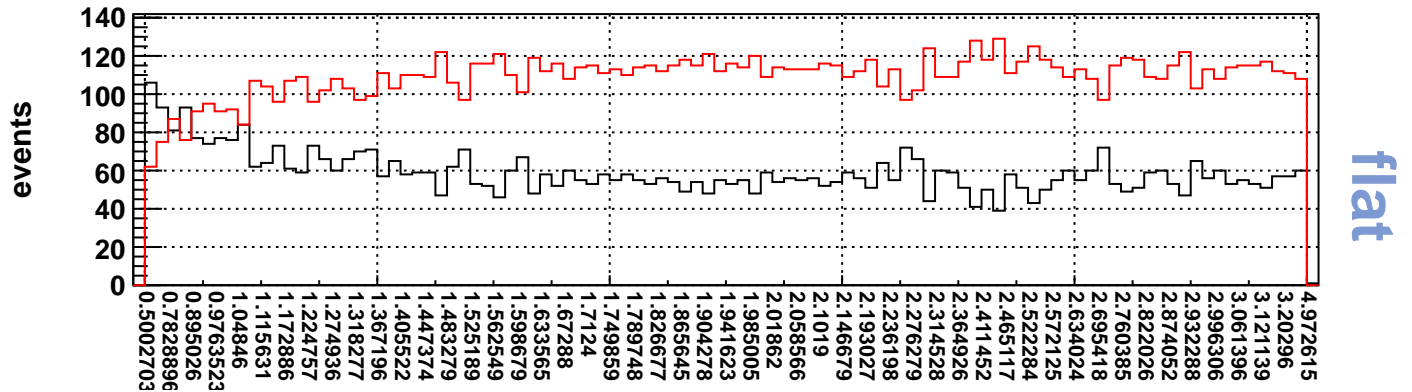
PrePro: 12 #3

only this 10.41

corr. to others 82.90%

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Input node 12 : sphericity

11th most important

added signi. 0.26

signi. loss 0.26

PrePro: 12 #12

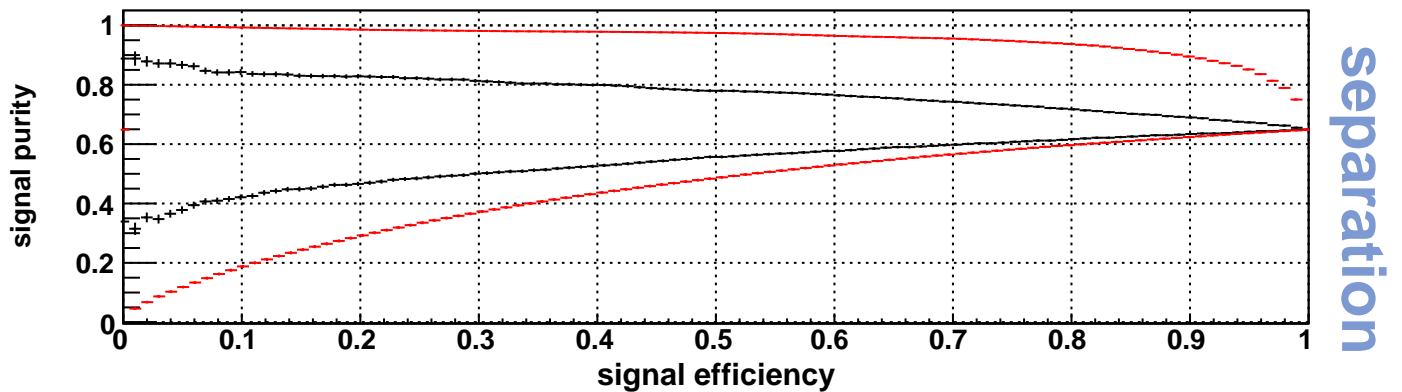
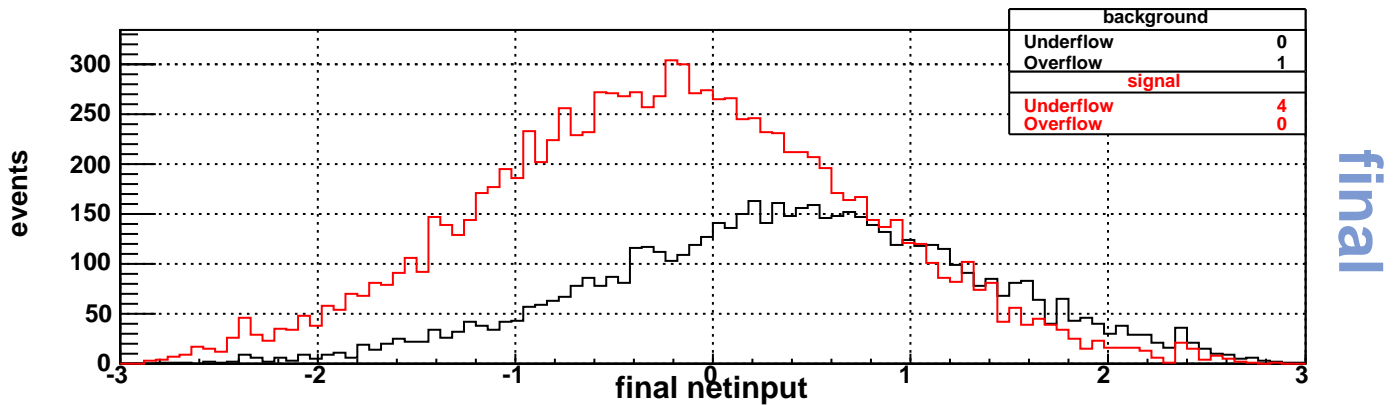
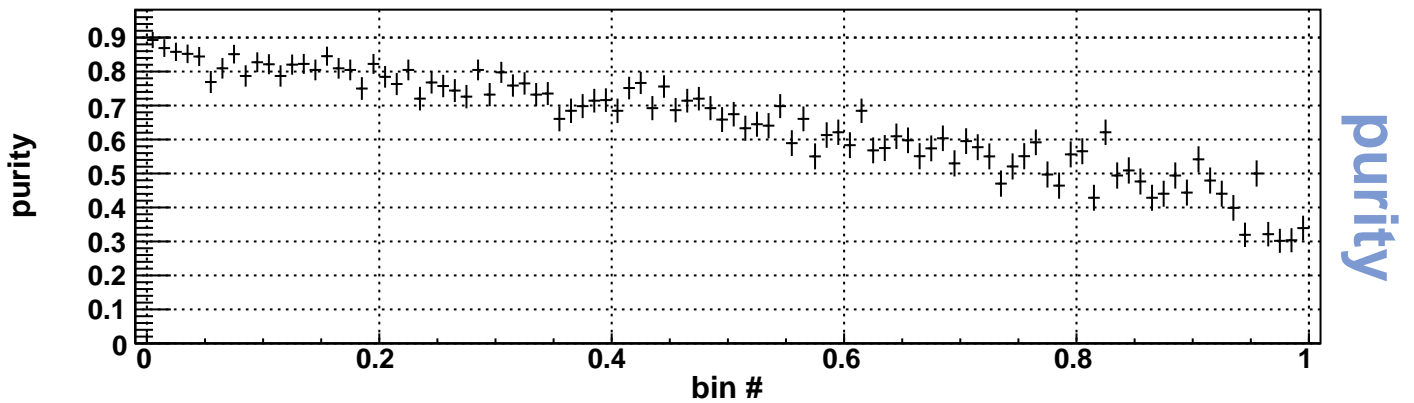
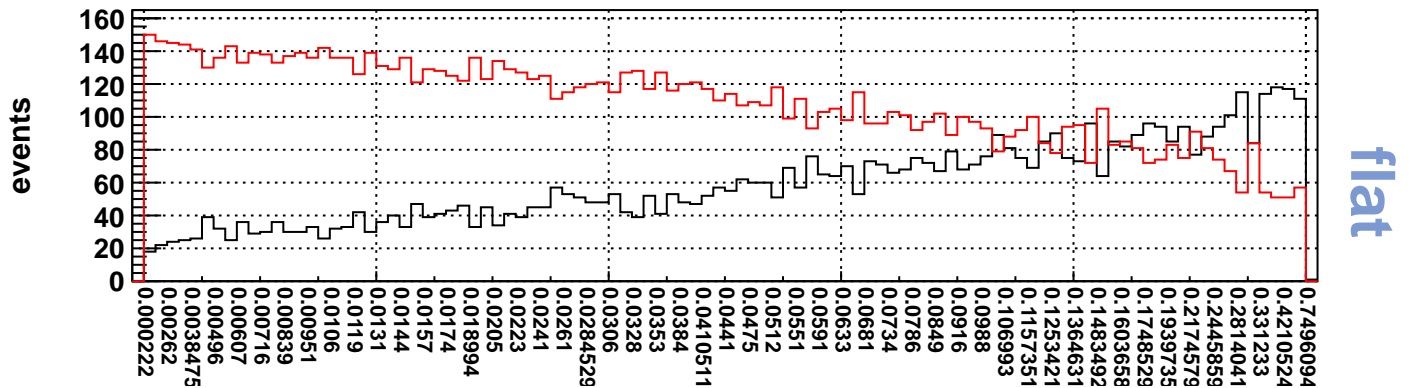
only this 37.35

corr. to others 79.10%



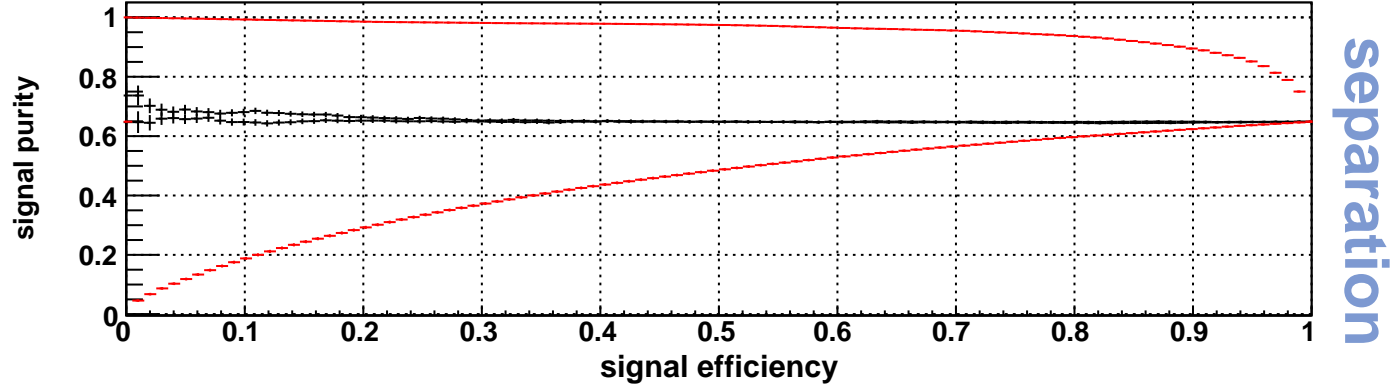
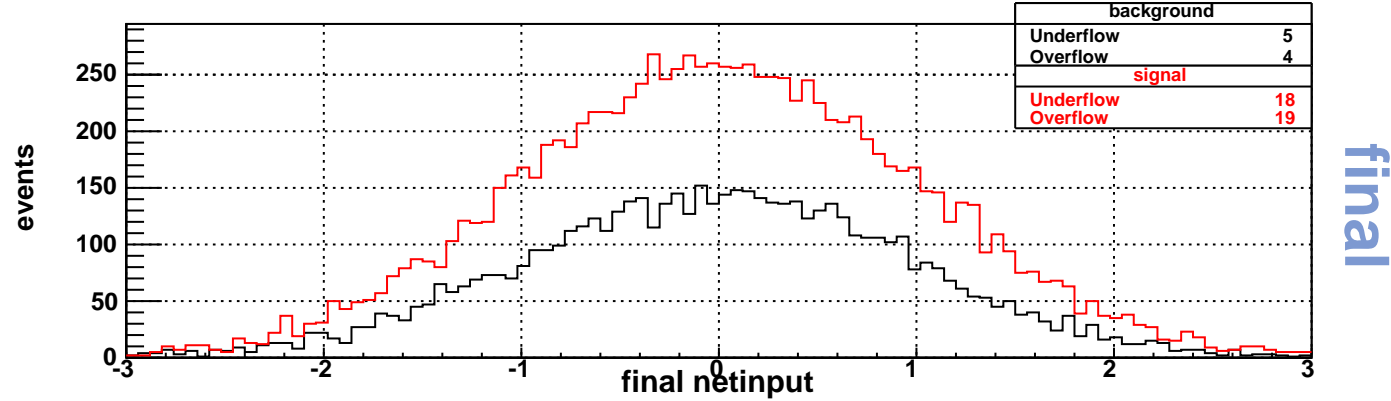
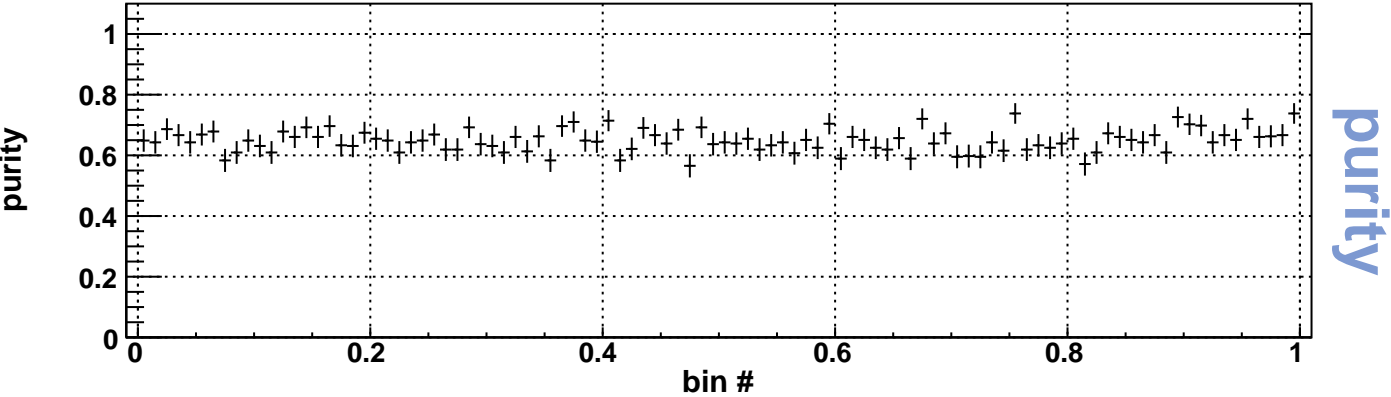
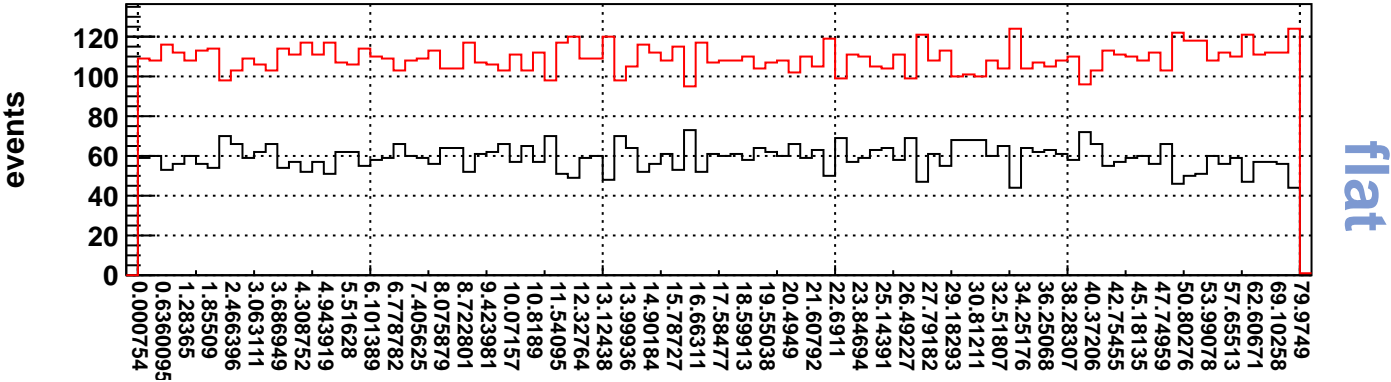
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Input node 9 : mt_1
12th most important
added signi. 0.07
signi. loss 0.07

PrePro: 12 #9
only this 1.25
corr. to others 16.60%



Network at iteration 100

