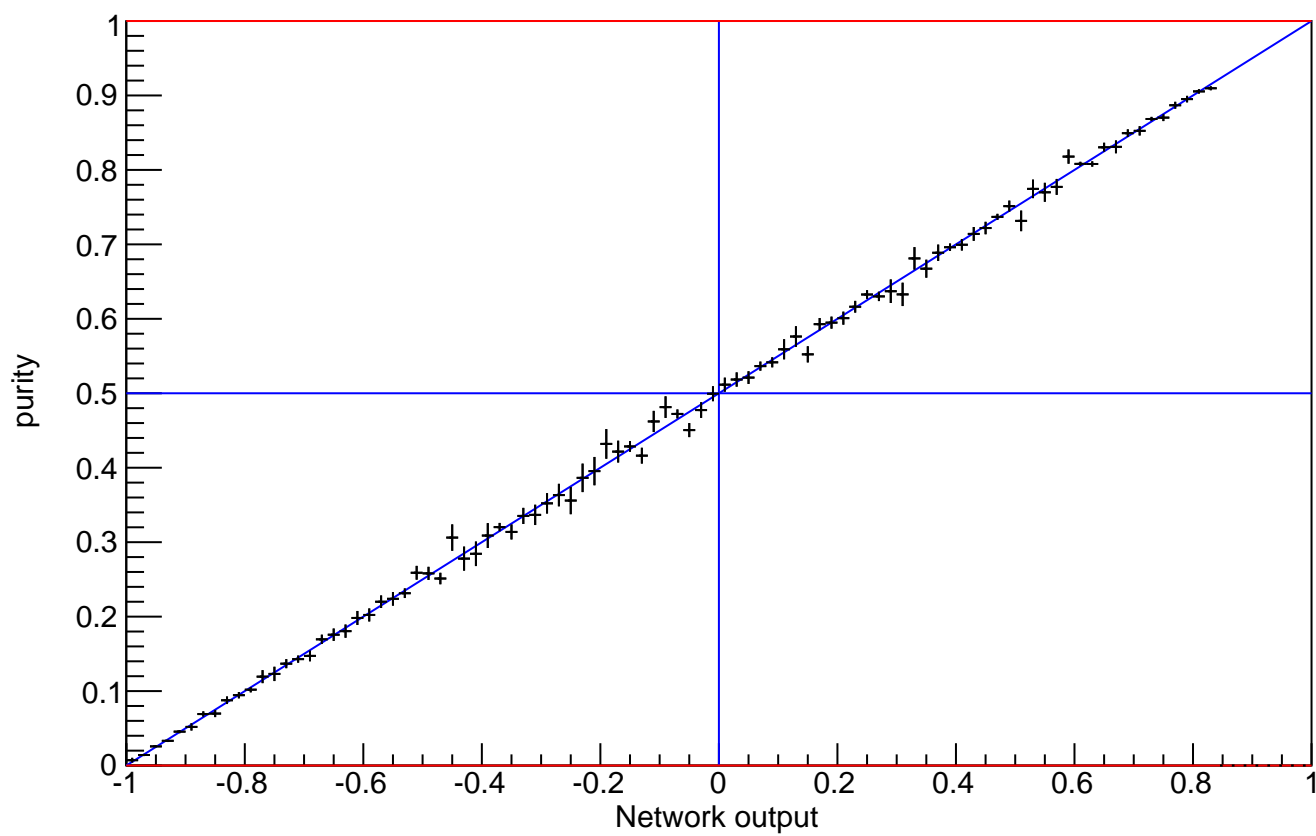
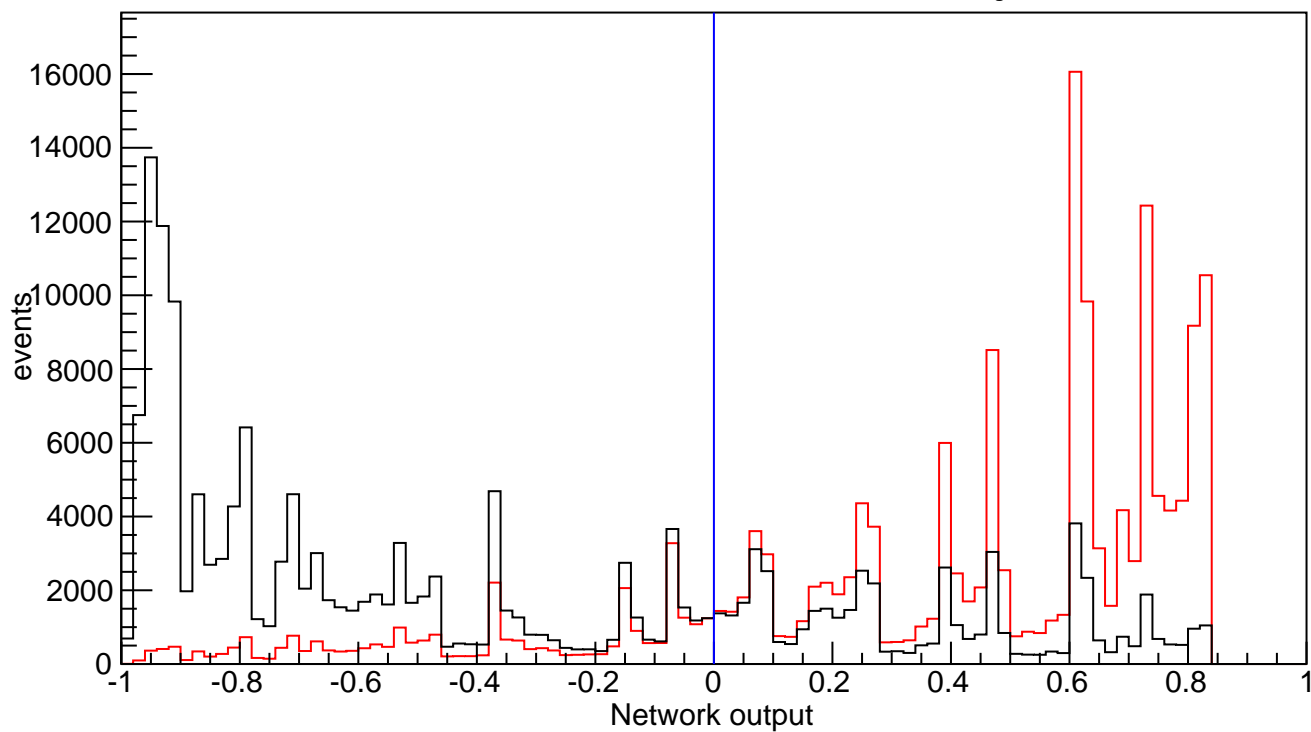
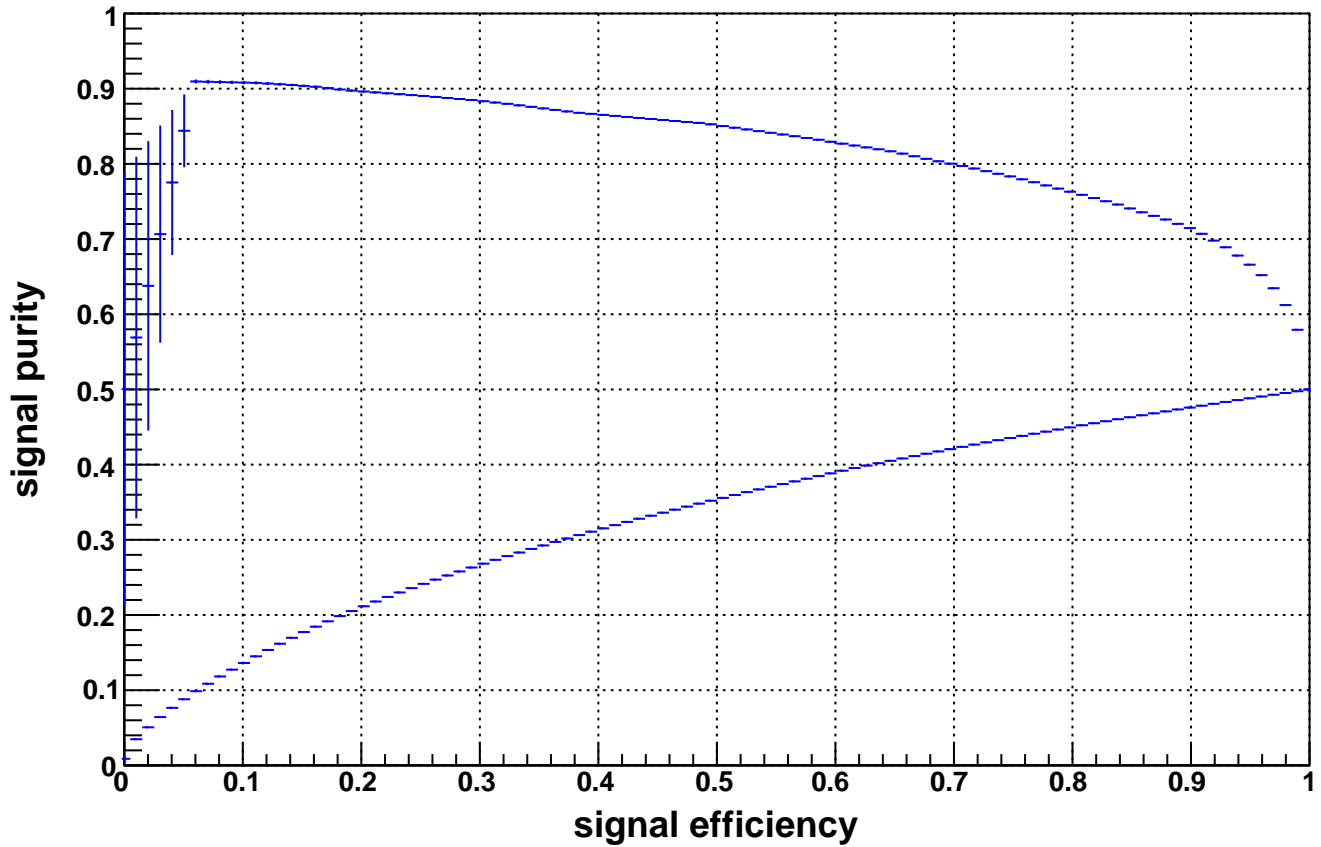
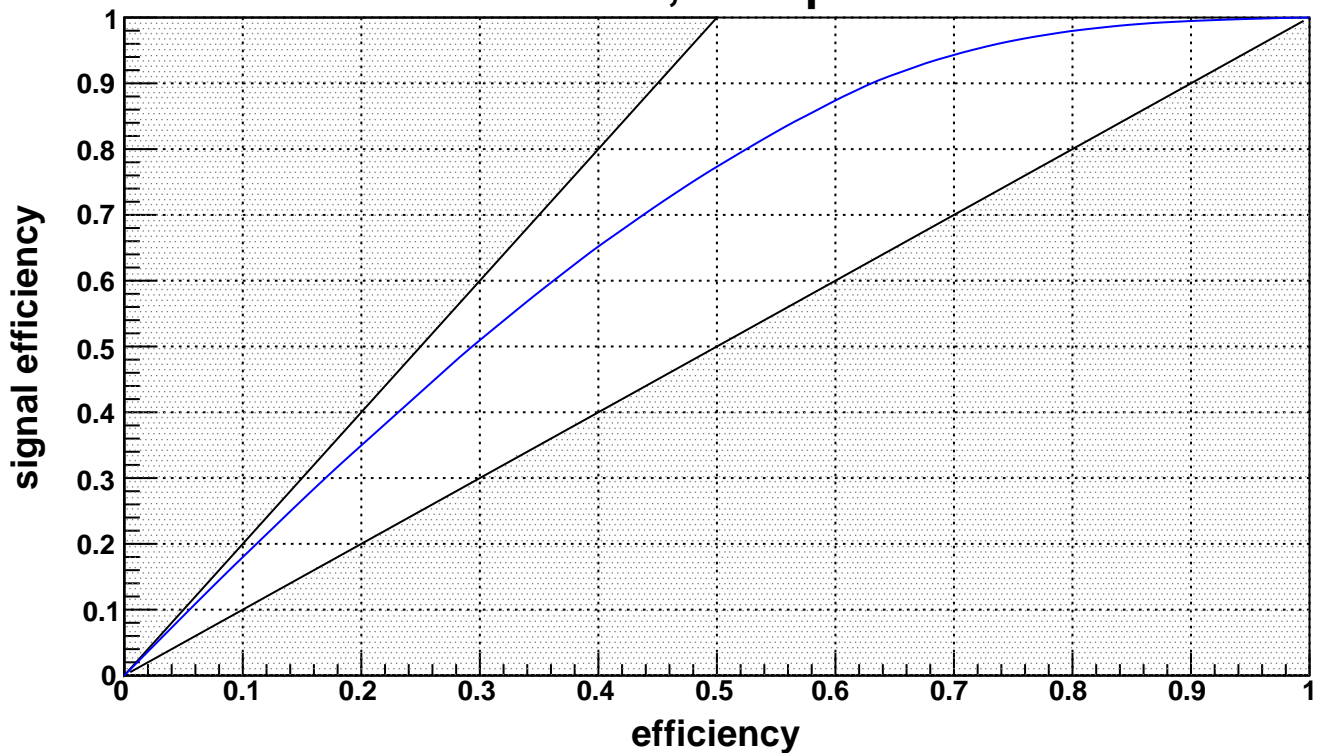


Output Node 1 (n = 350388 s = 175194 b = 175194  $p_{\text{sig}} = 0.5000$ )

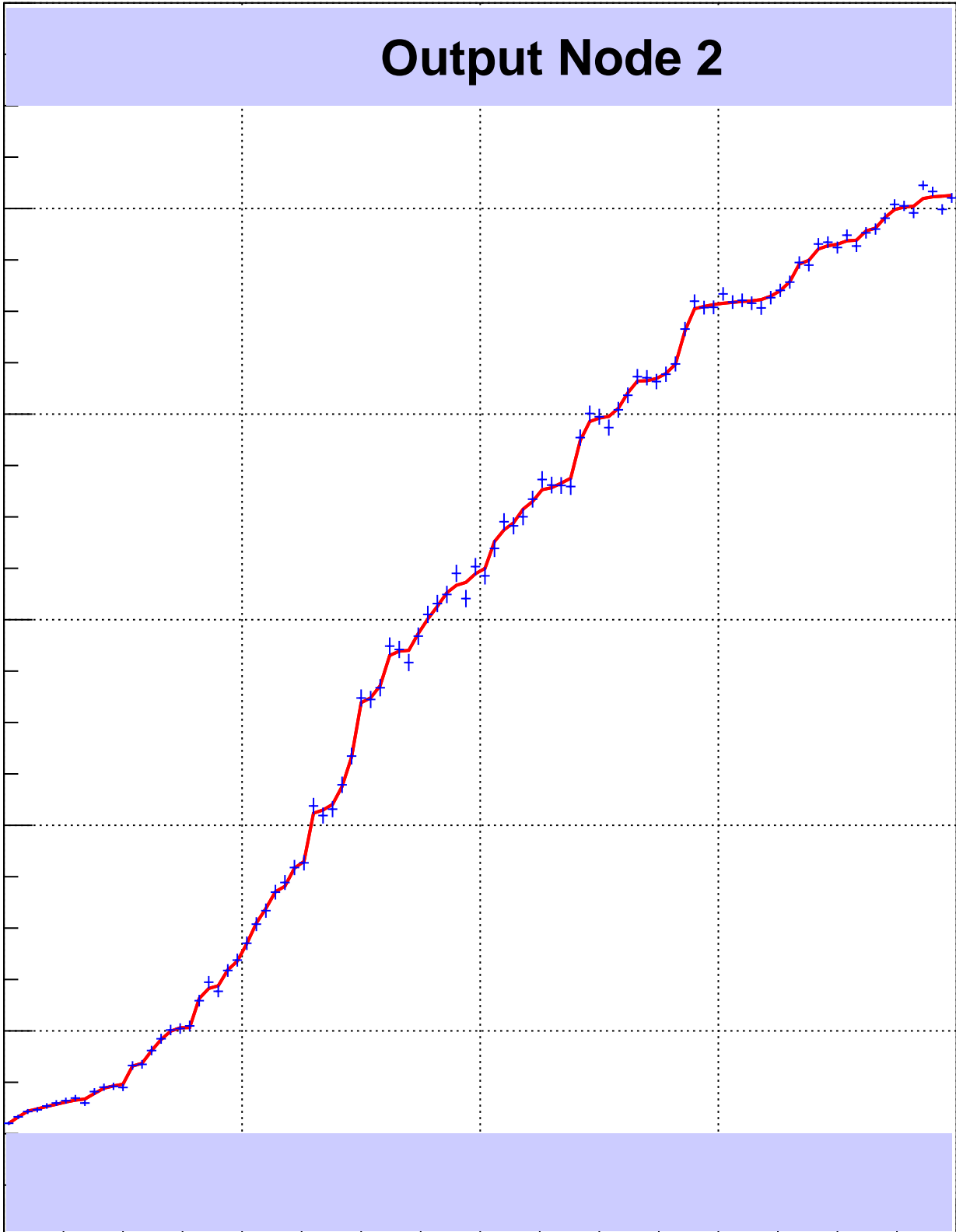




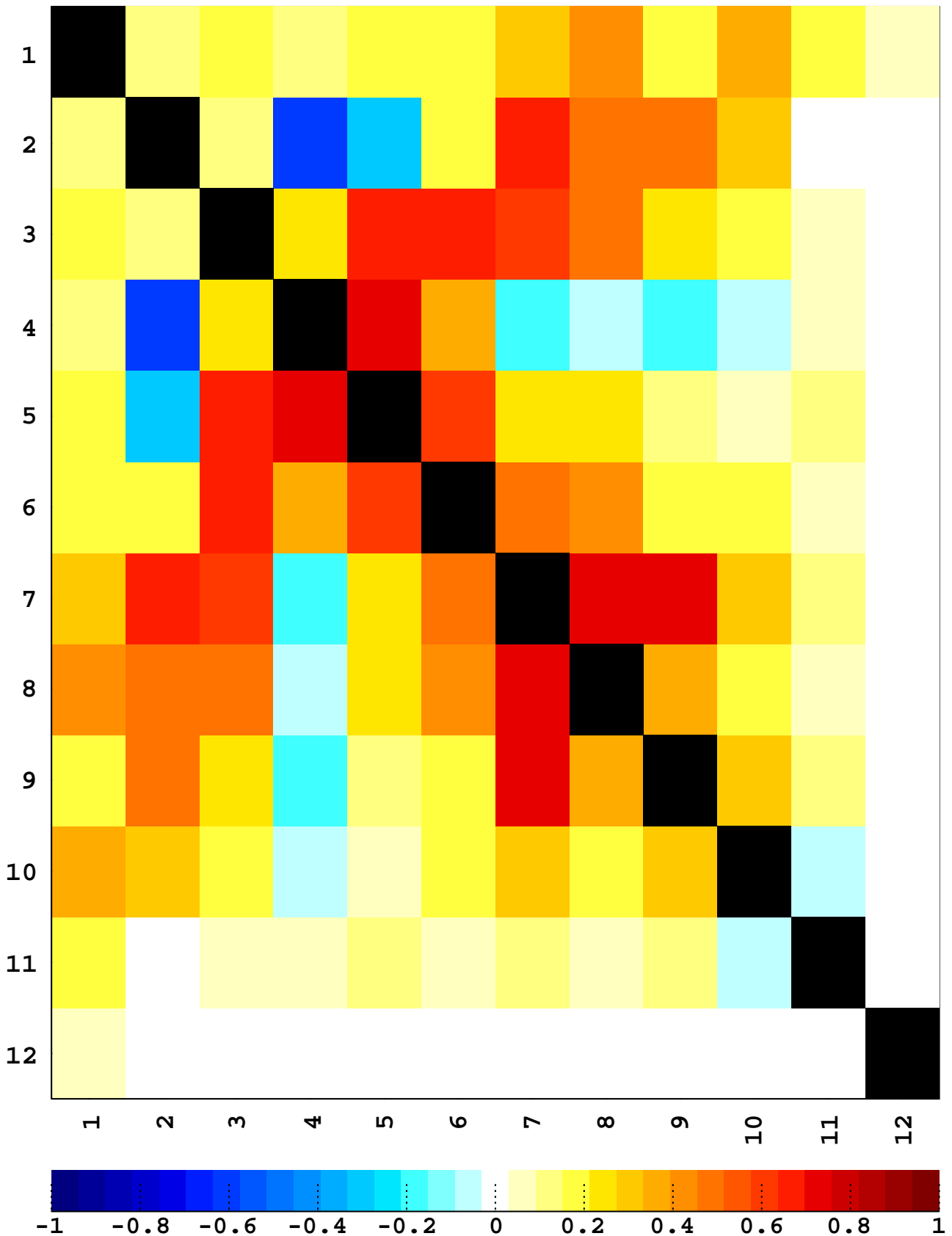
**Gini index = 36.4%, max possible = 50.0%**



## Output Node 2



## correlation matrix of input variables



Input node 2 : pixelChargeSum

4th most important

added signi. 108.31

signi. loss 25.66

PrePro: 14 #2

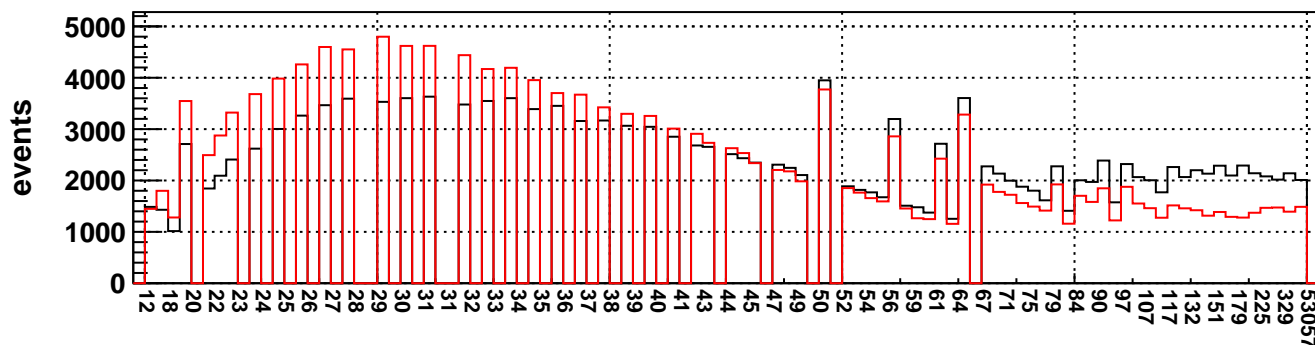
only this 68.23

corr. to others 87.90%

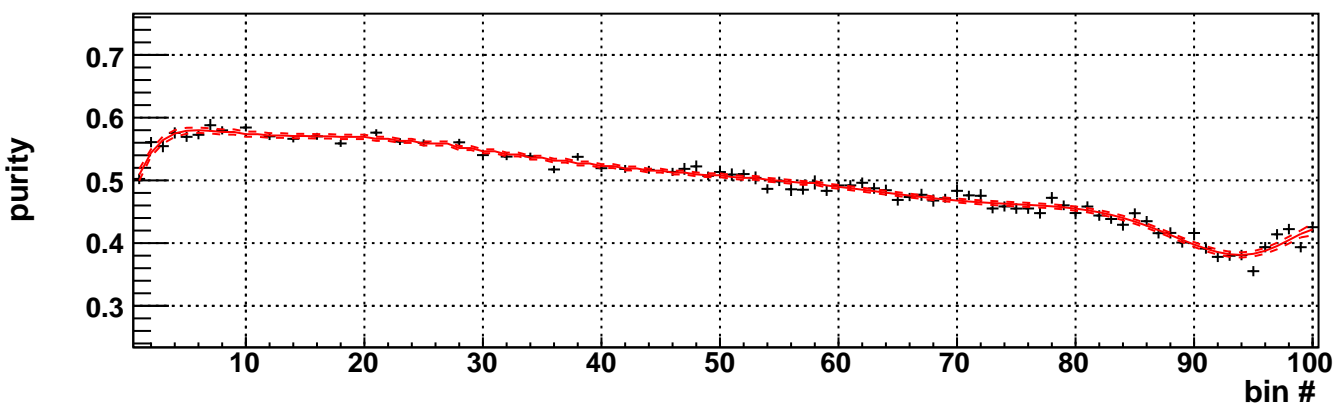


Phi-T

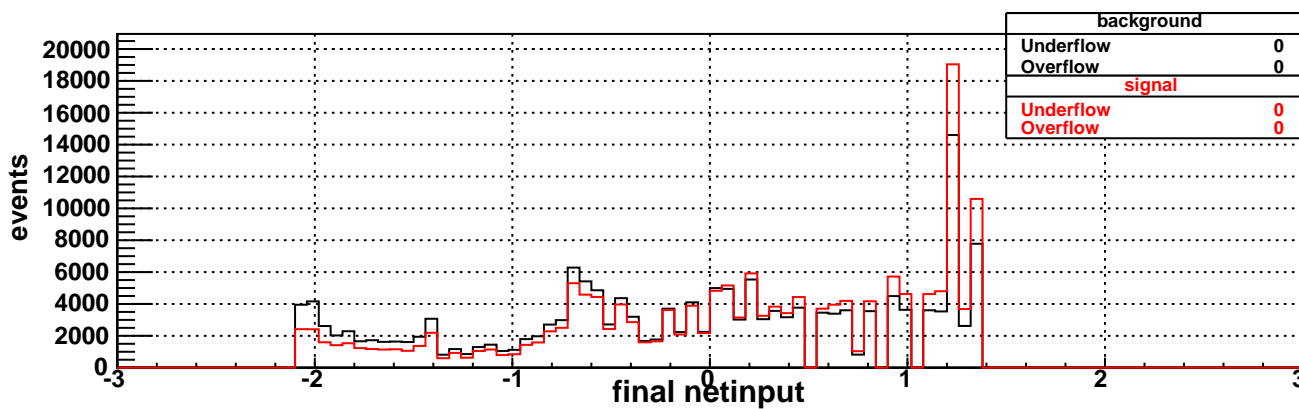
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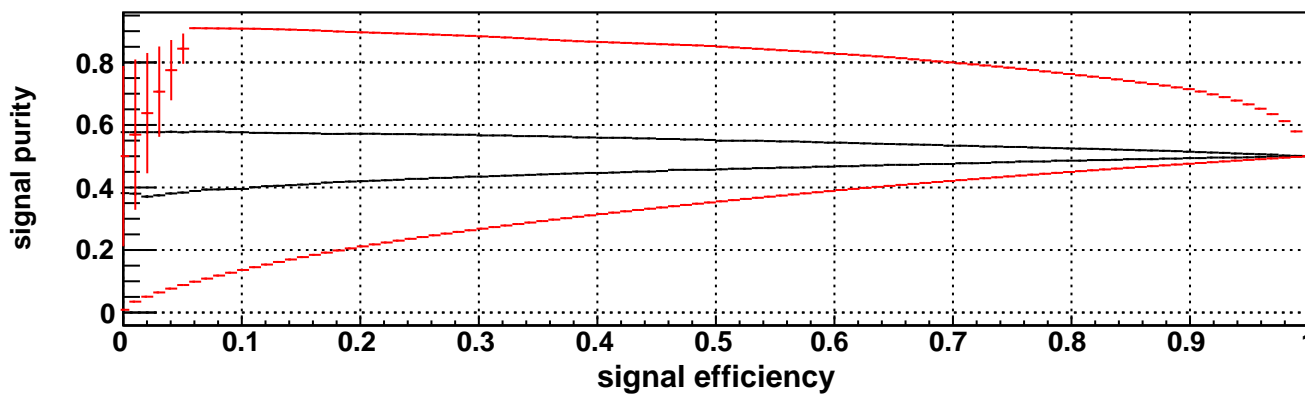
flat



spline fit



final



separation

Input node 3 : pixelChargeMin

8th most important

added signi. 16.66

signi. loss 11.01

PrePro: 14 #3

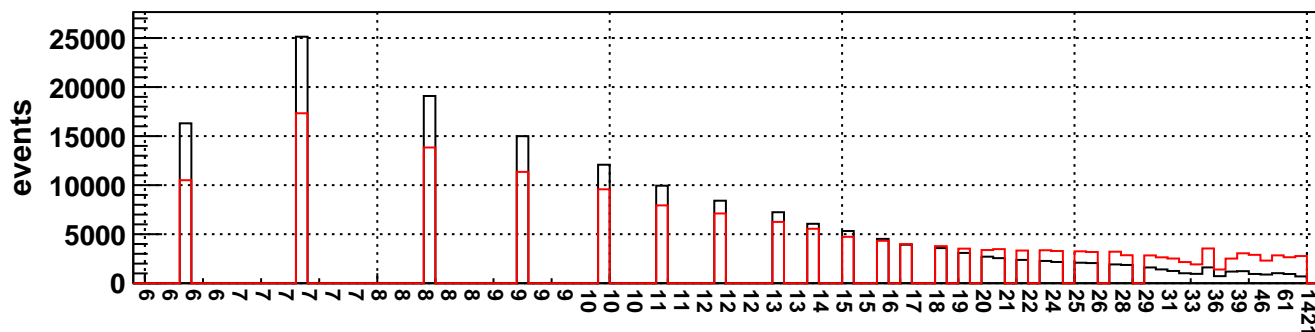
only this 123.13

corr. to others 85.30%

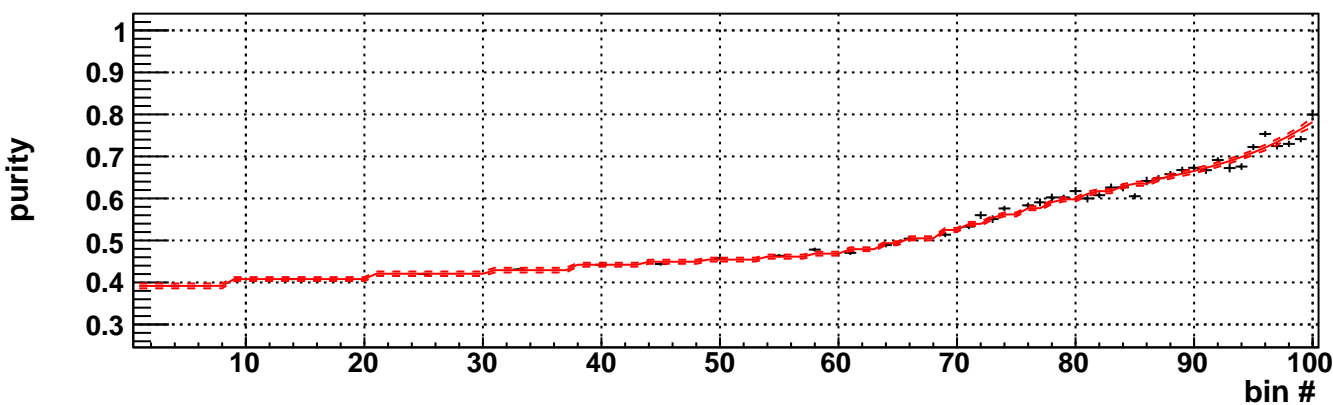


Phi-T

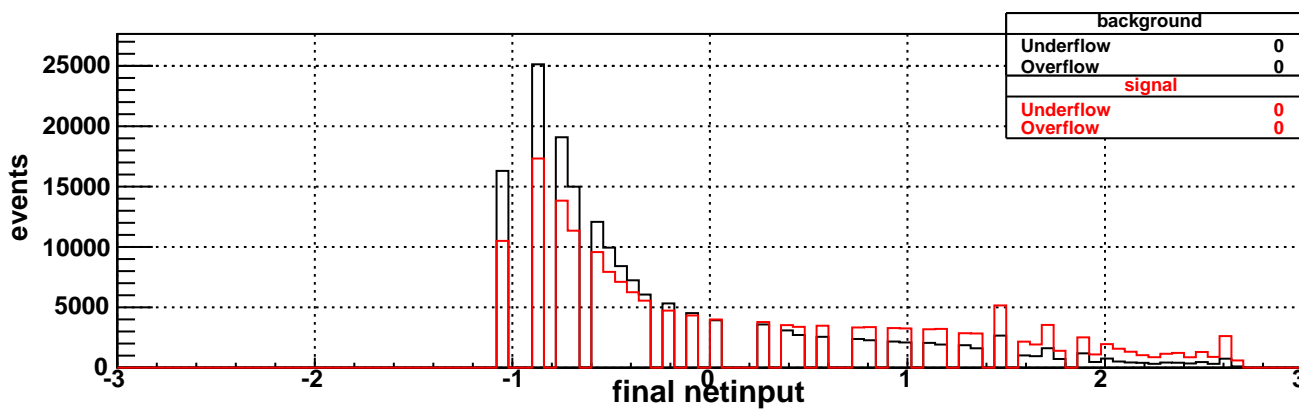
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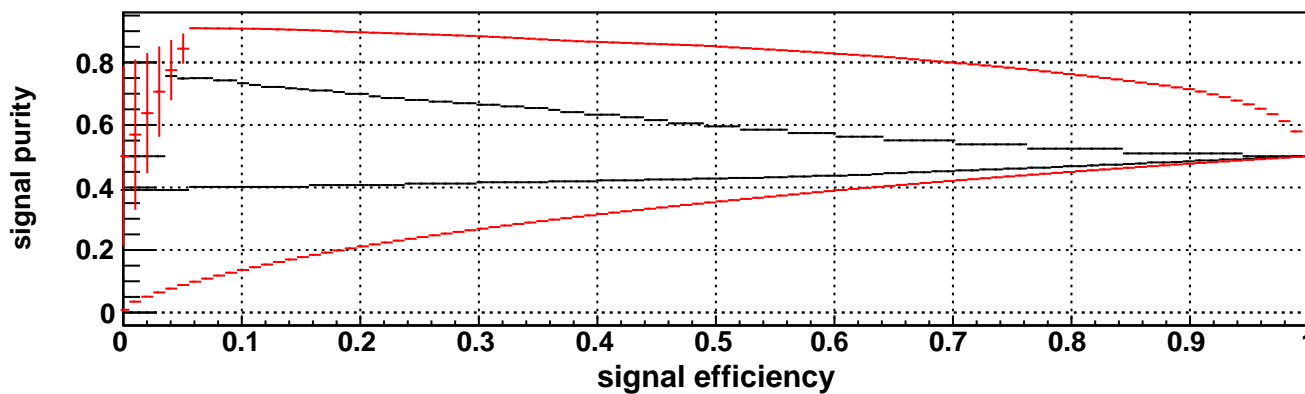
flat



spline fit



final



separation

**Input node 4 : pixelChargeMax**

11th most important

added signi. 5.21

signi. loss 5.21

PrePro: 14 #4

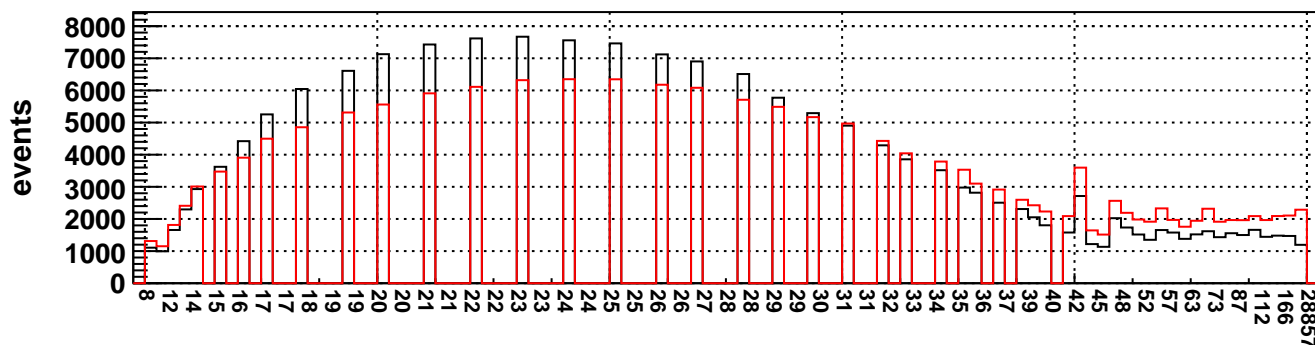
only this 58.32

corr. to others 87.80%

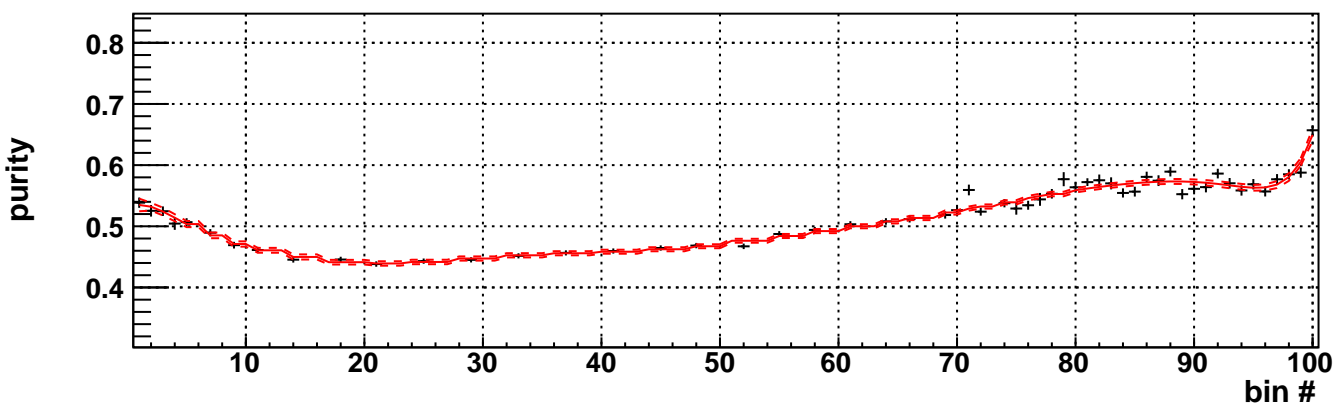


**Phi-T**

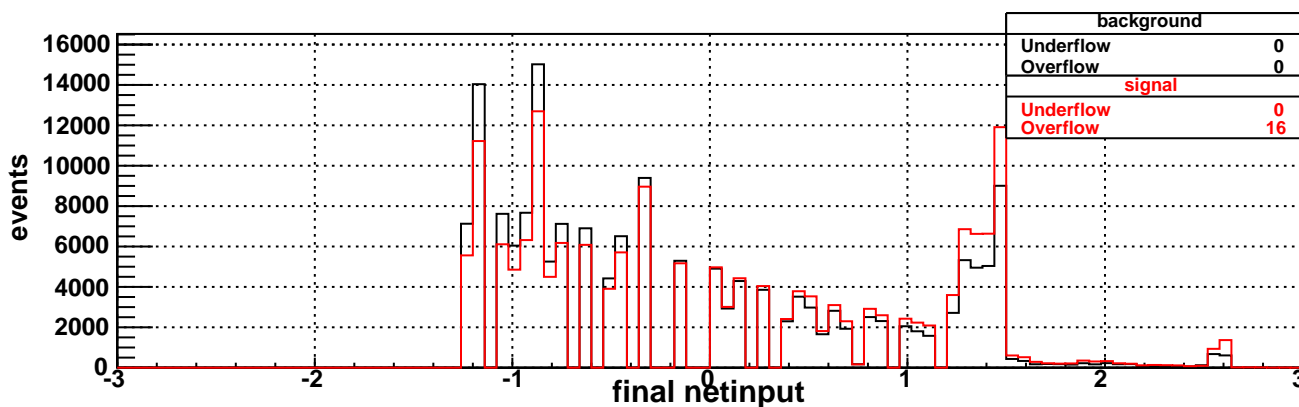
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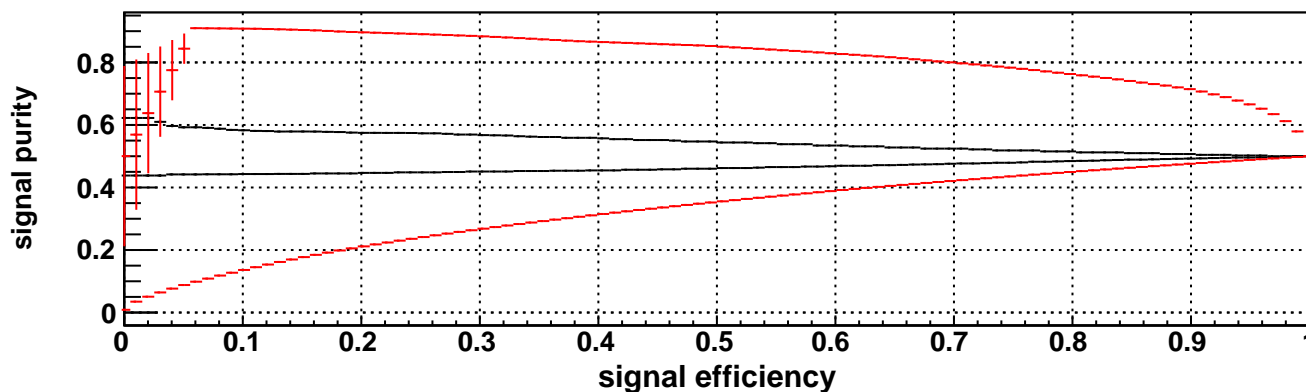
flat



spline fit



final



separation

**Input node 5 : pixelChargeMean**

**6th most important**

**added signi. 17.20**

**signi. loss 21.72**

**PrePro: 14 #5**

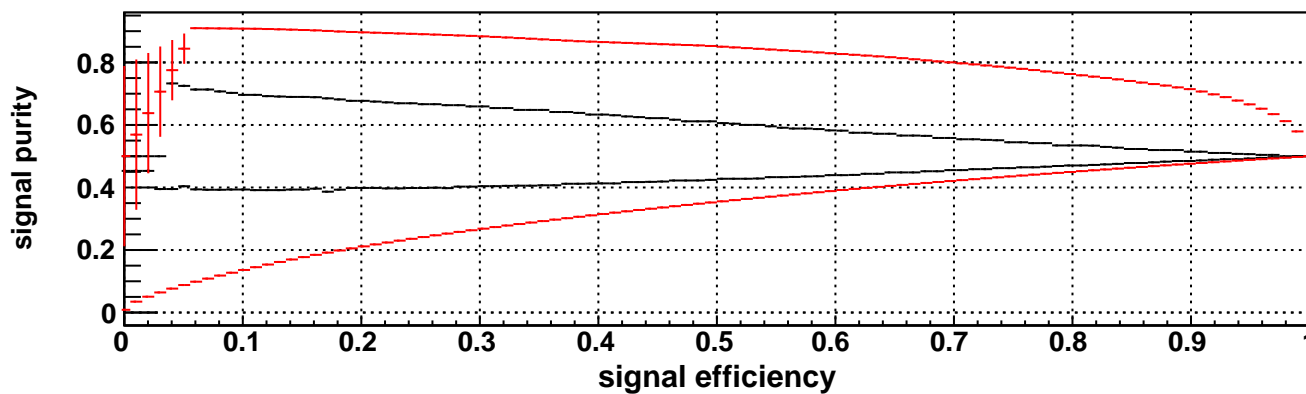
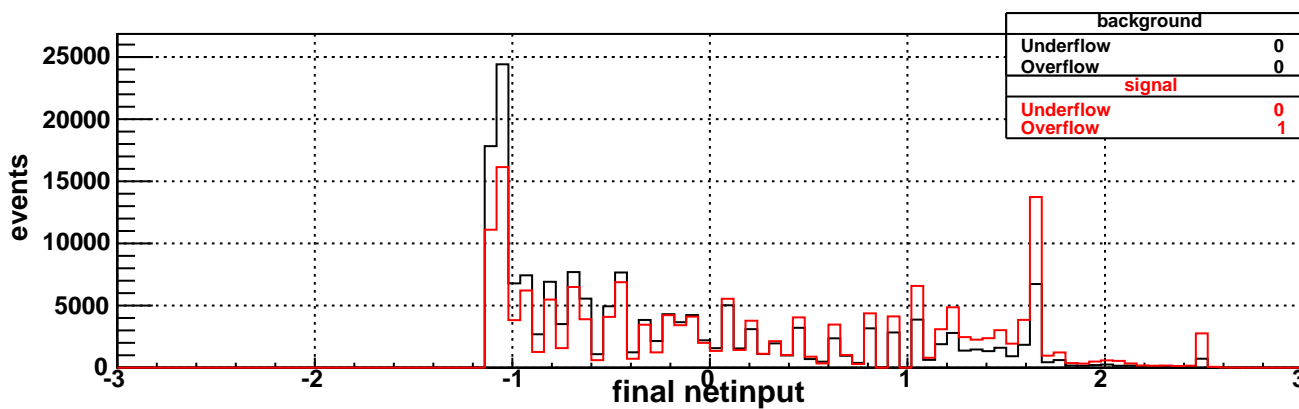
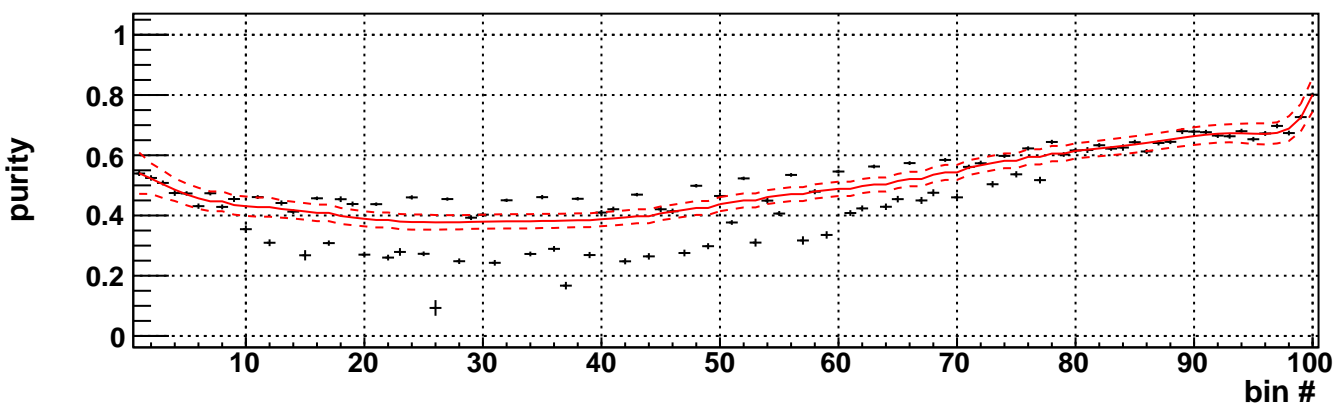
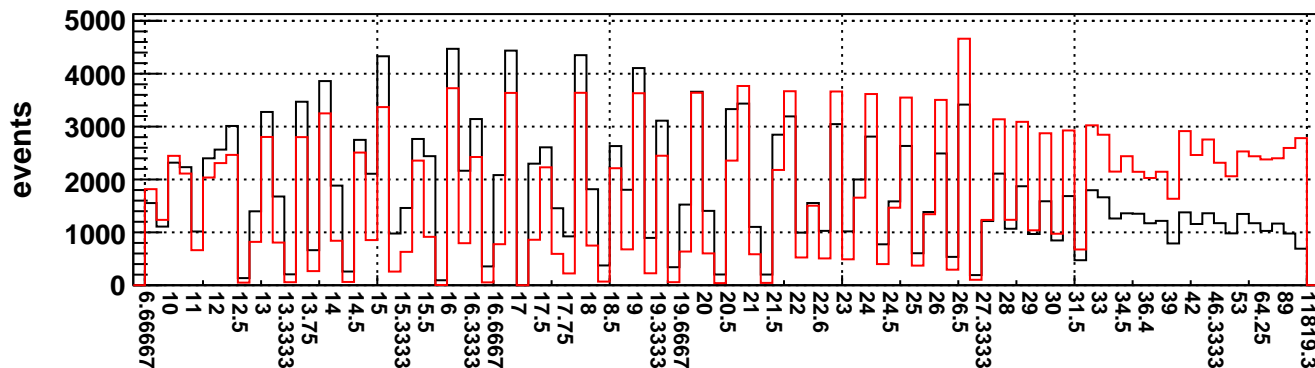
**only this 122.67**

**corr. to others 90.30%**



**Phi-T**

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Input node 6 : pixelChargeVar

7th most important

added signi. 28.46

signi. loss 21.46

PrePro: 14 #6

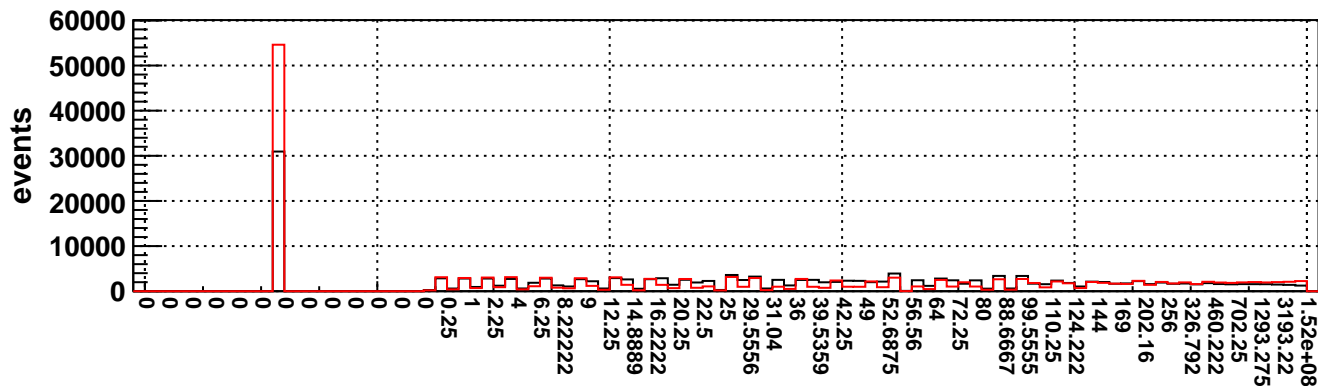
only this 110.92

corr. to others 77.10%

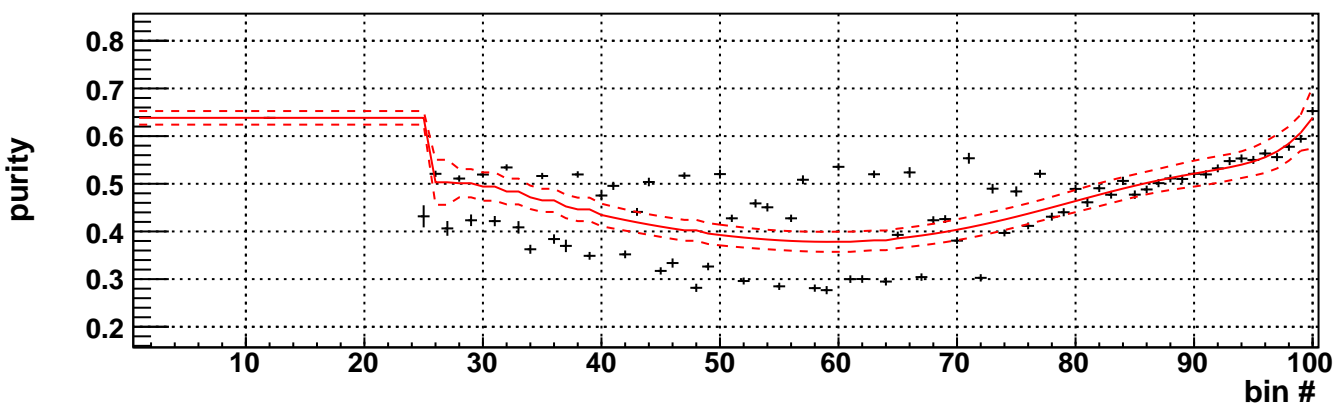


Phi-T

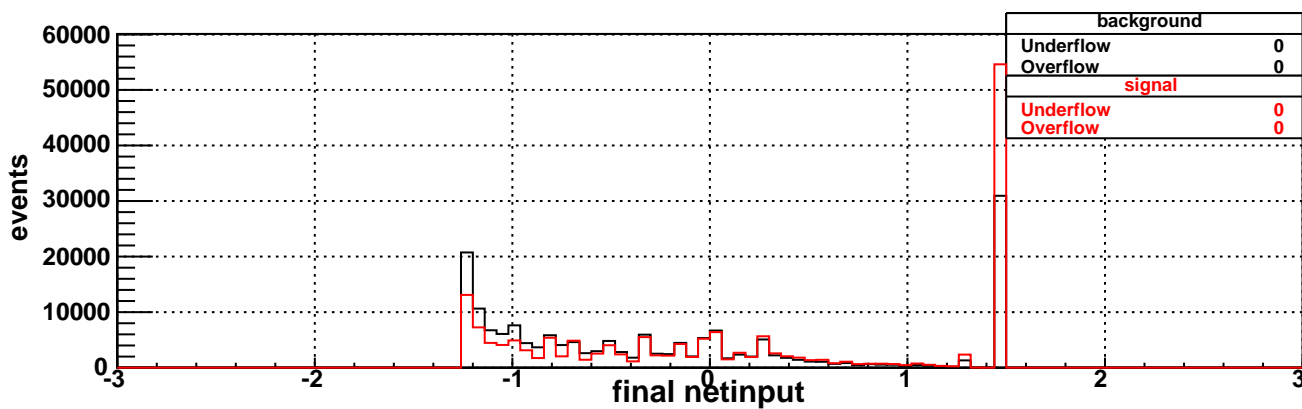
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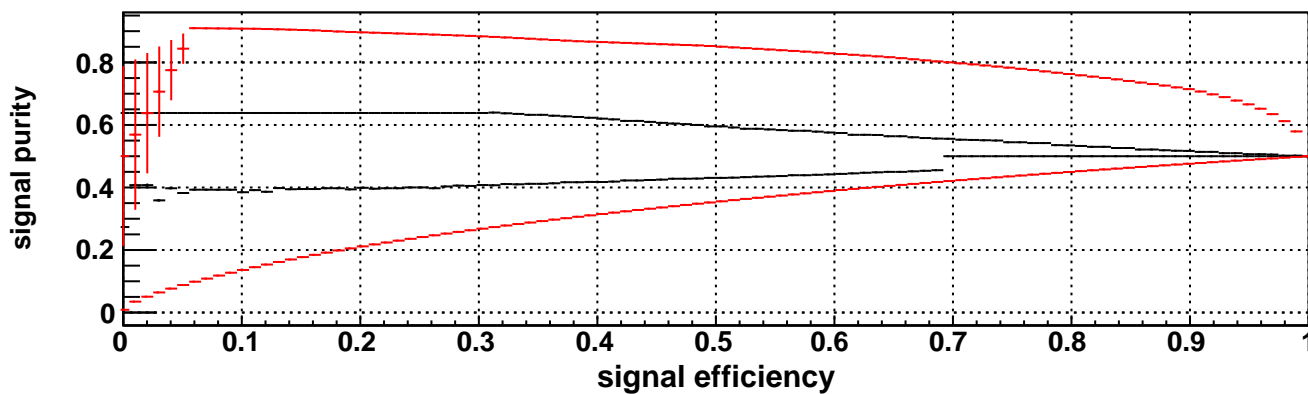
flat



spline fit



final



separation

Input node 7 : clusterSize

5th most important

added signi. 54.60

signi. loss 38.49

PrePro: 14 #7

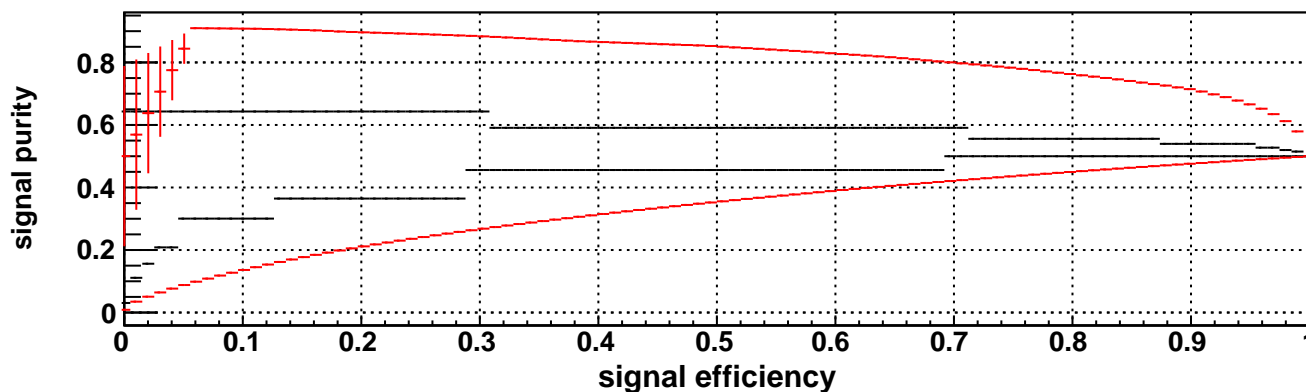
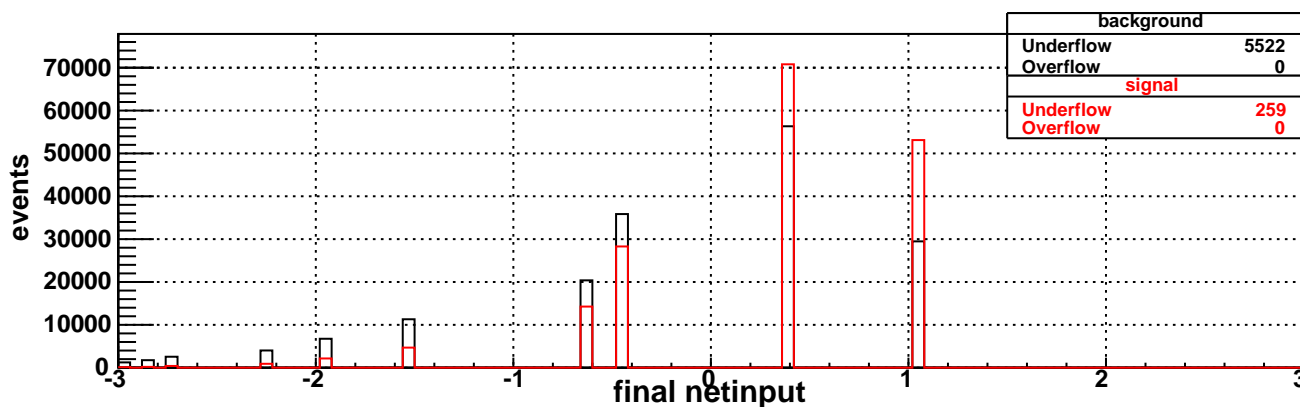
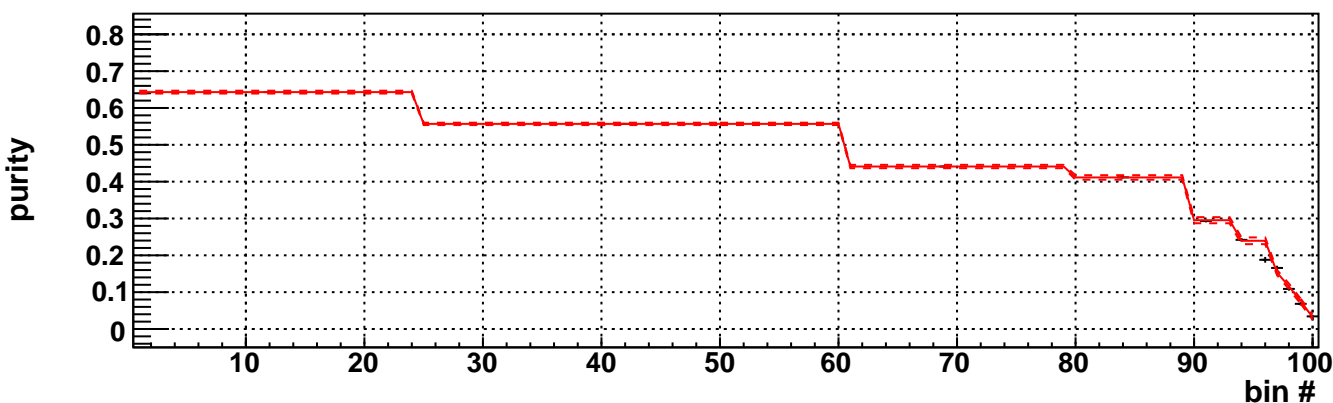
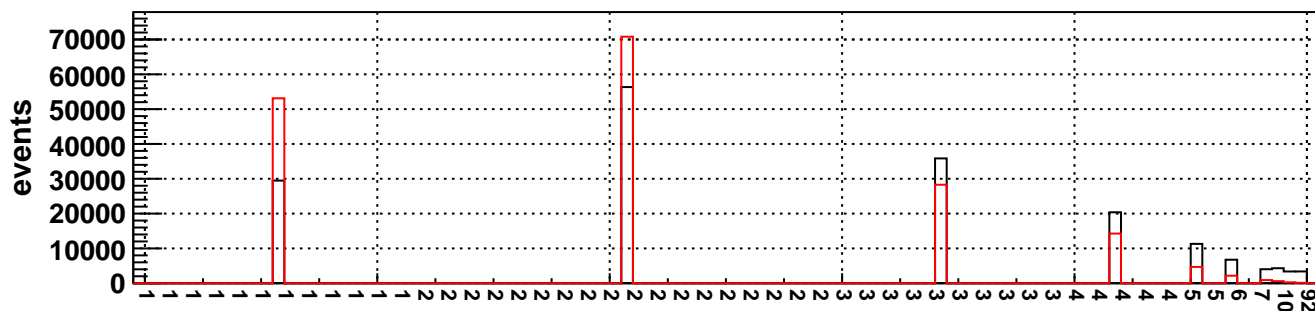
only this 161.18

corr. to others 94.40%



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**Input node 8 : clusterSizeU**

**1st most important**

**added signi. 248.90**

**signi. loss 196.28**

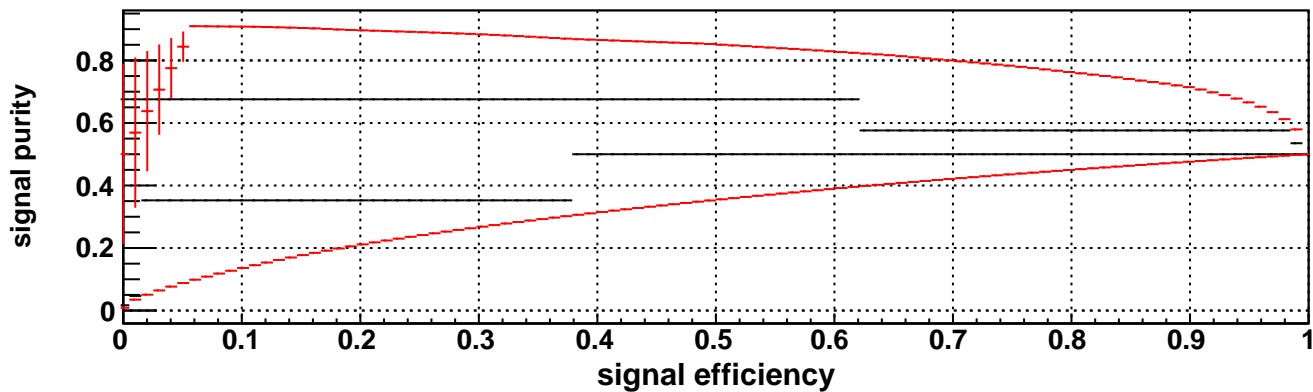
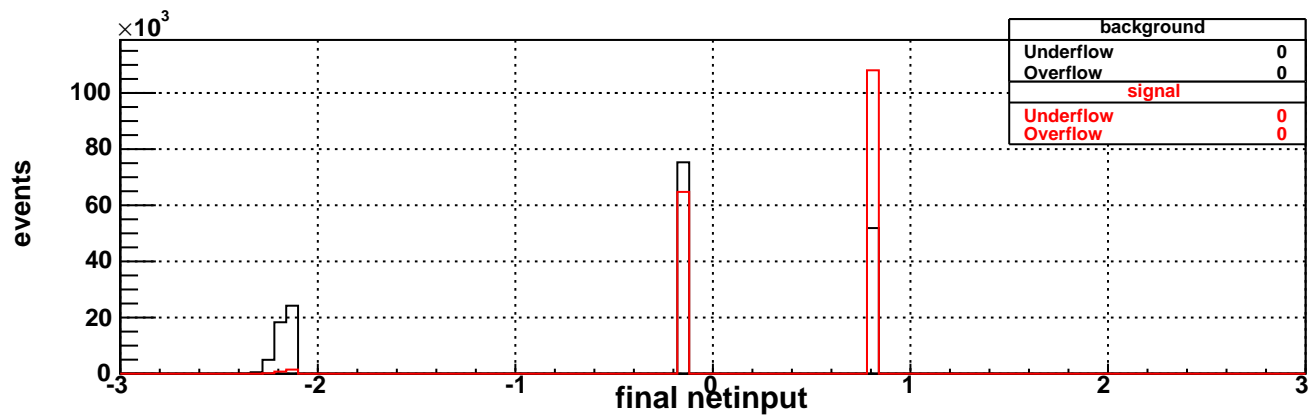
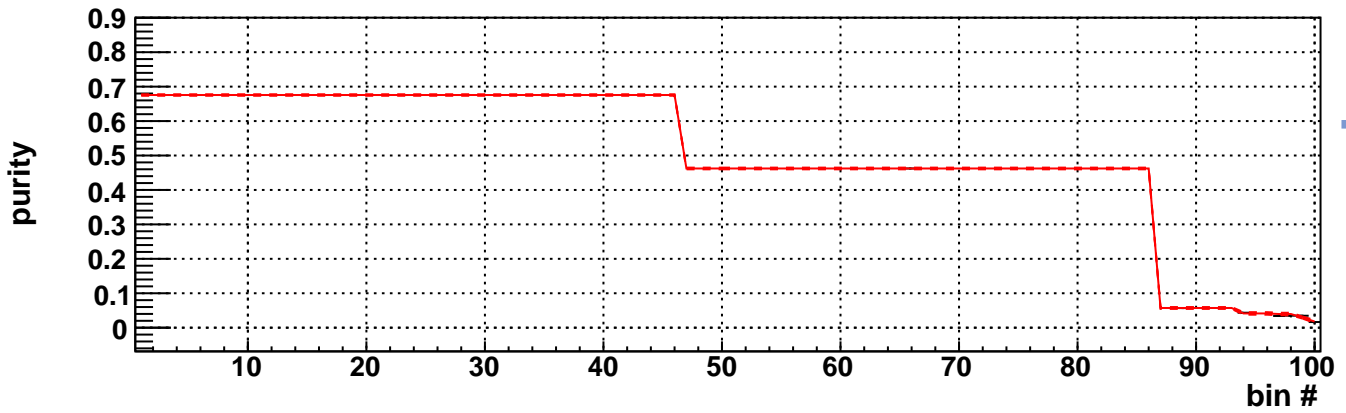
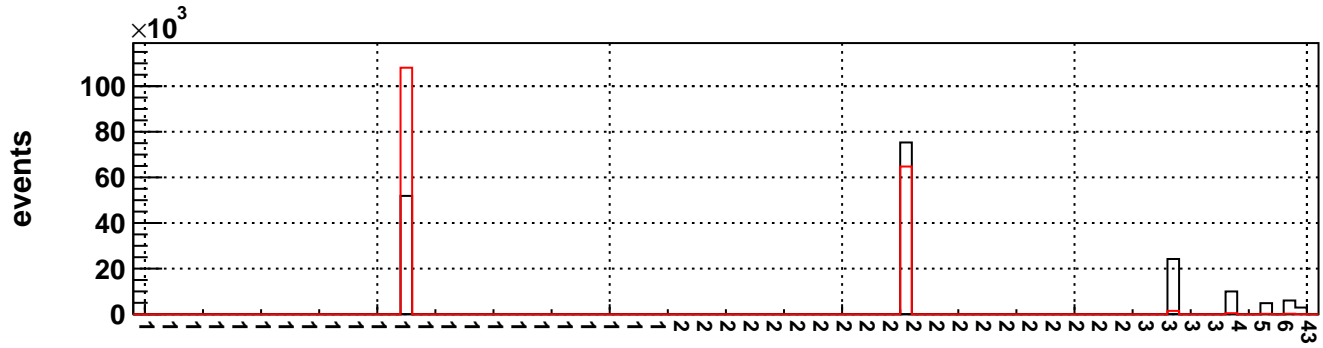
**PrePro: 14 #8**

**only this 248.90**

**corr. to others 78.90%**

**Phi-T**

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Input node 9 : clusterSizeV

10th most important

added signi. 7.79

signi. loss 8.17

PrePro: 14 #9

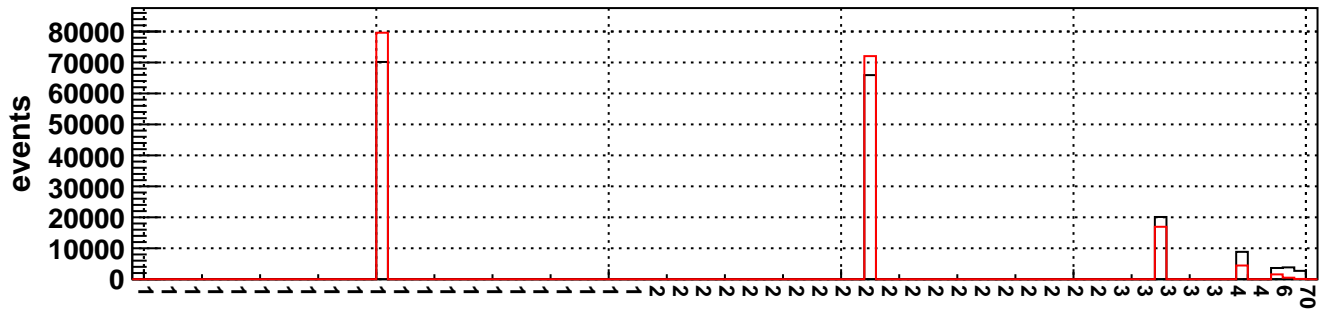
only this 91.48

corr. to others 80.00%

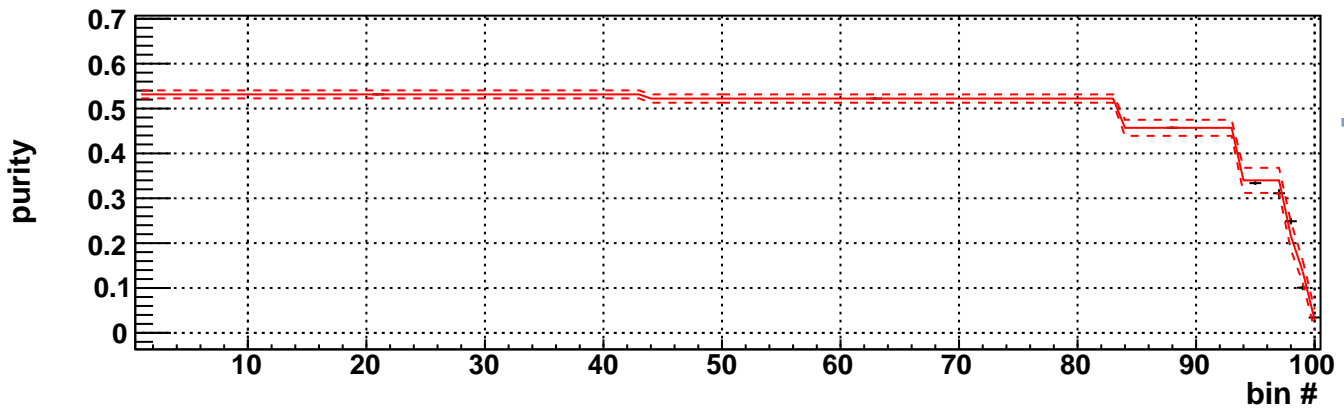


Phi-T

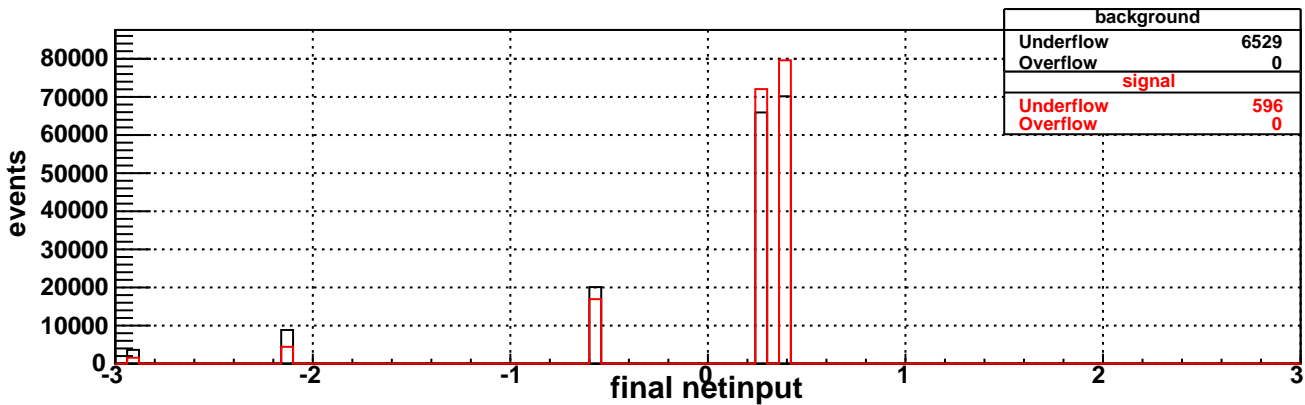
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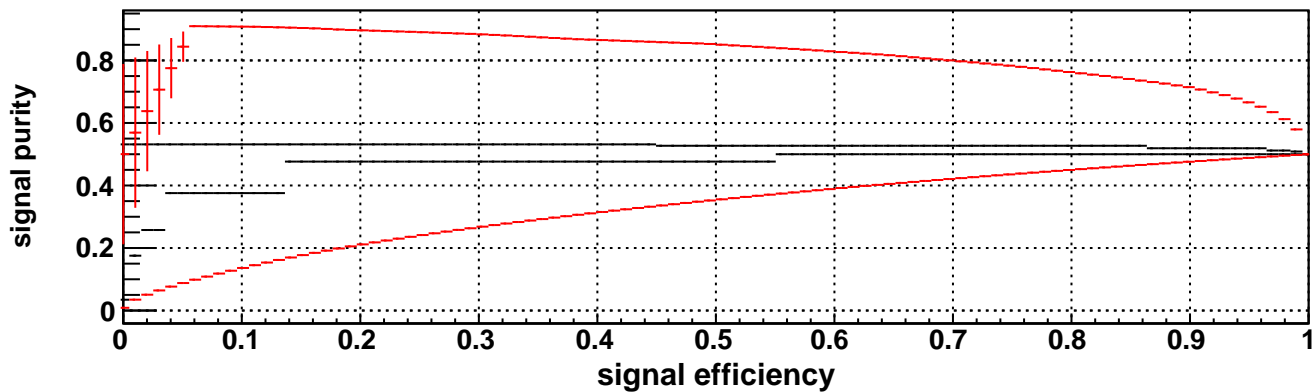
flat



spline fit



final



separation

Input node 10 : globalCoordinateZ

2nd most important

added signi. 179.78

signi. loss 213.09

PrePro: 14 #10

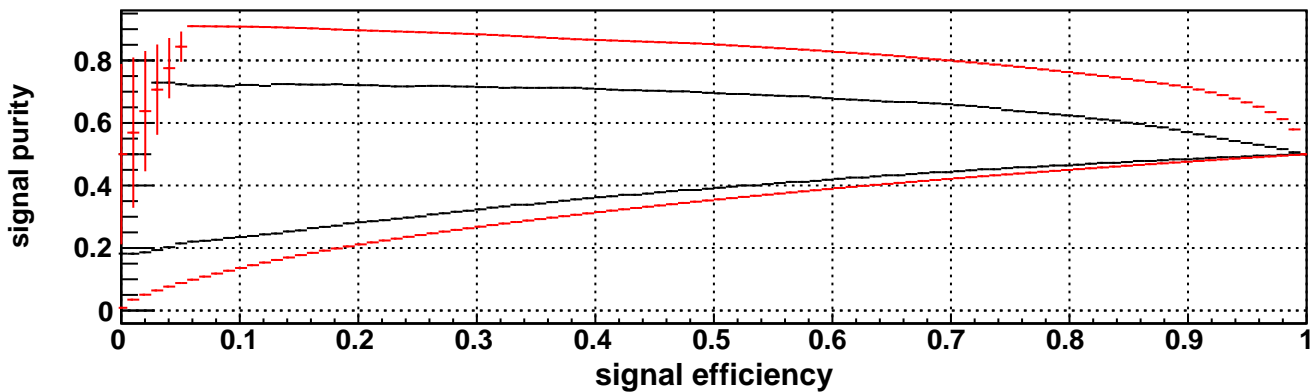
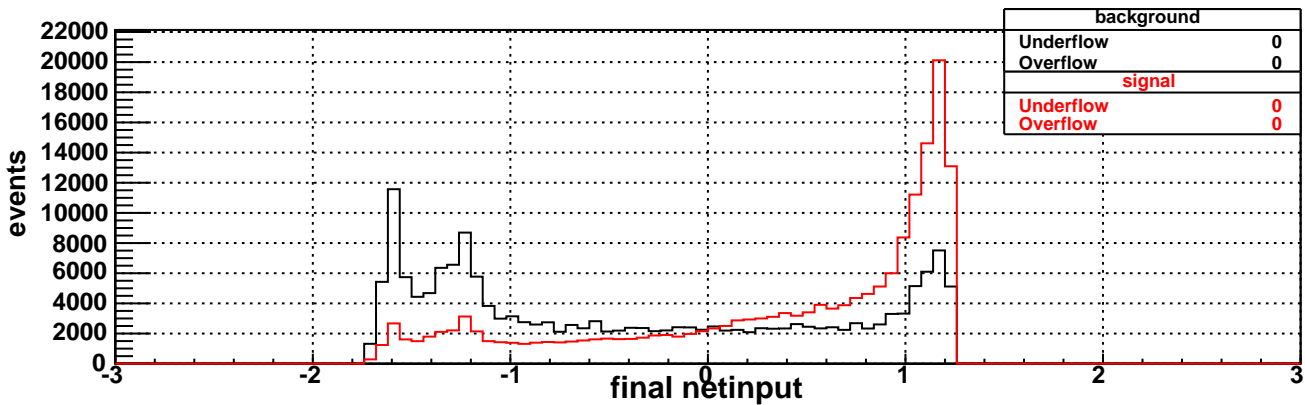
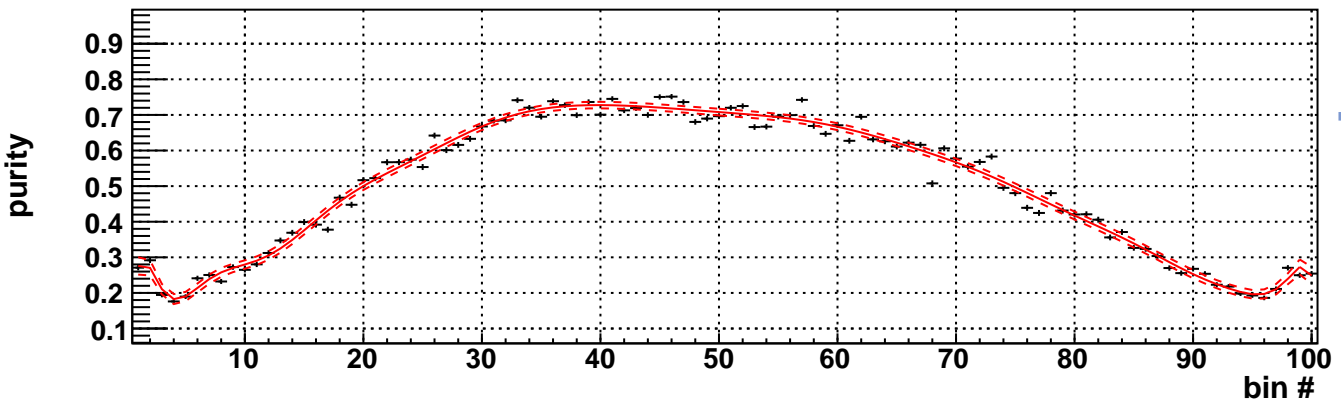
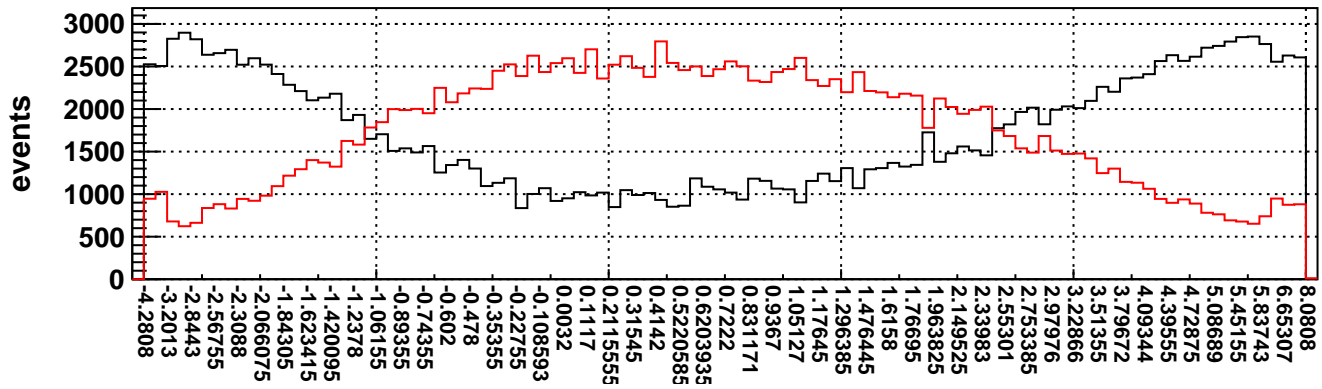
only this 221.16

corr. to others 38.60%



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Input node 11 : globalCoordinateR

3rd most important

added signi. 117.78

signi. loss 122.92

PrePro: 14 #11

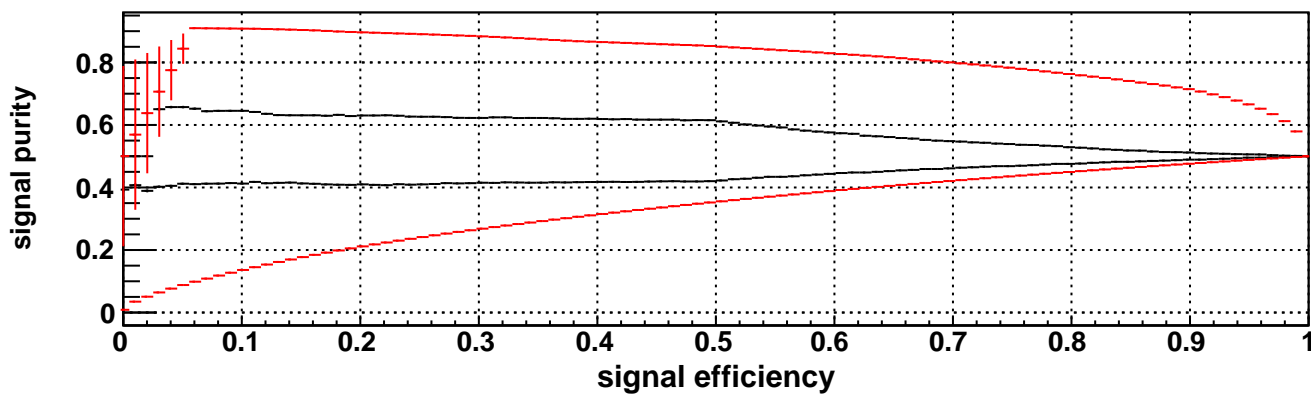
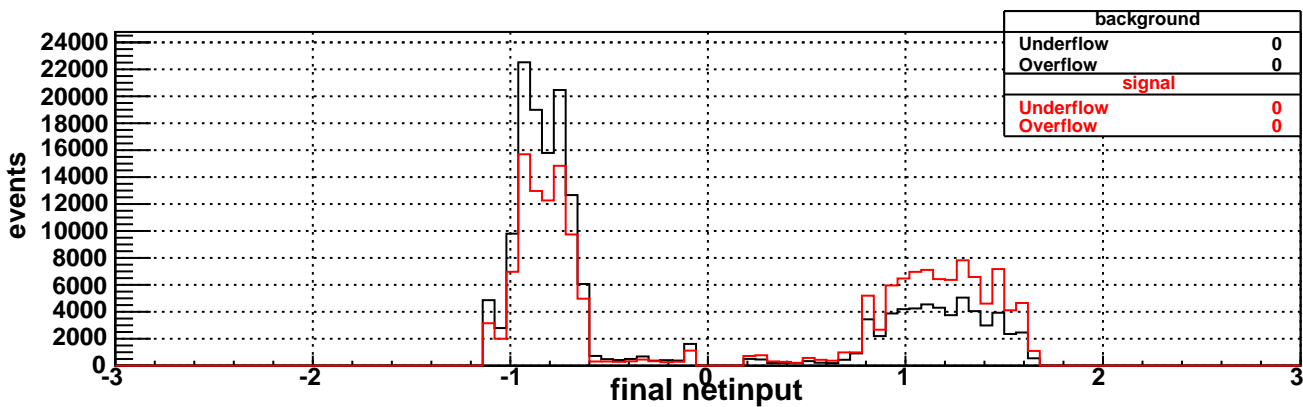
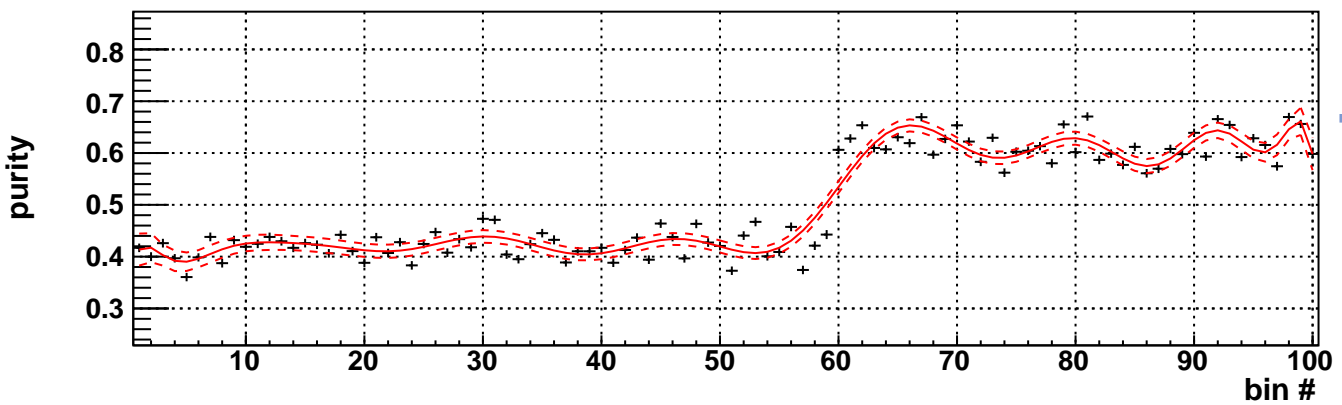
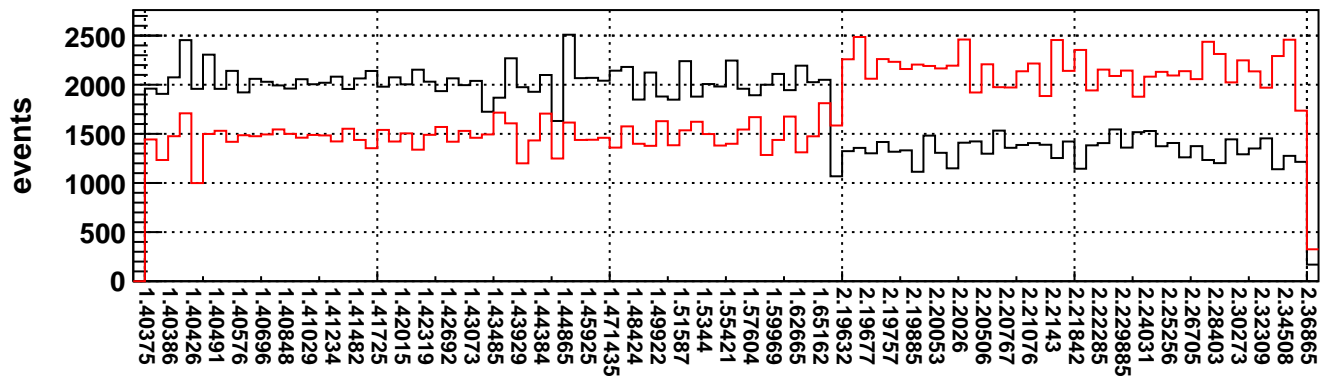
only this 113.60

corr. to others 21.30%



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Input node 12 : globalCoordinatePhi

9th most important

added signi. 15.95

signi. loss 16.02

PrePro: 14 #12

only this 22.45

corr. to others 3.10%

Phi-T

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