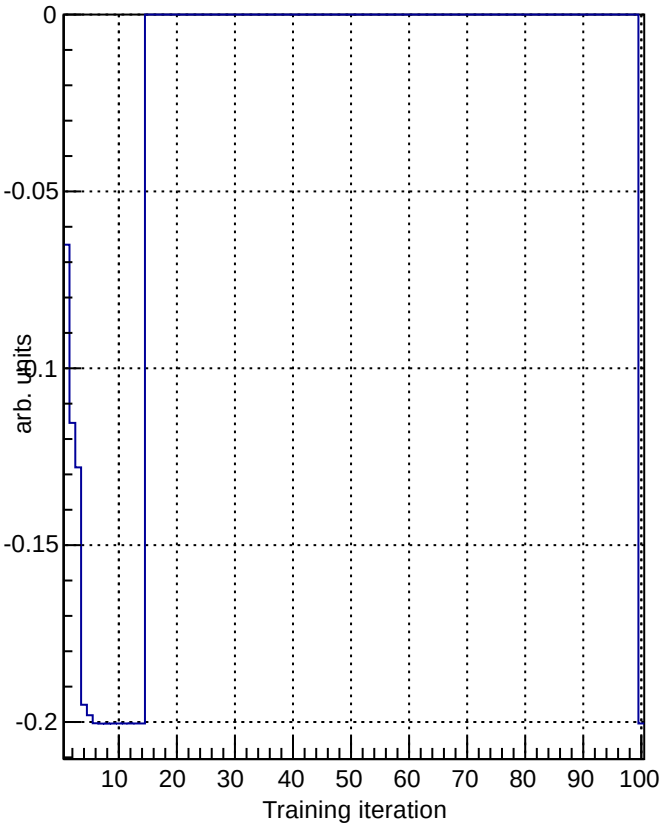
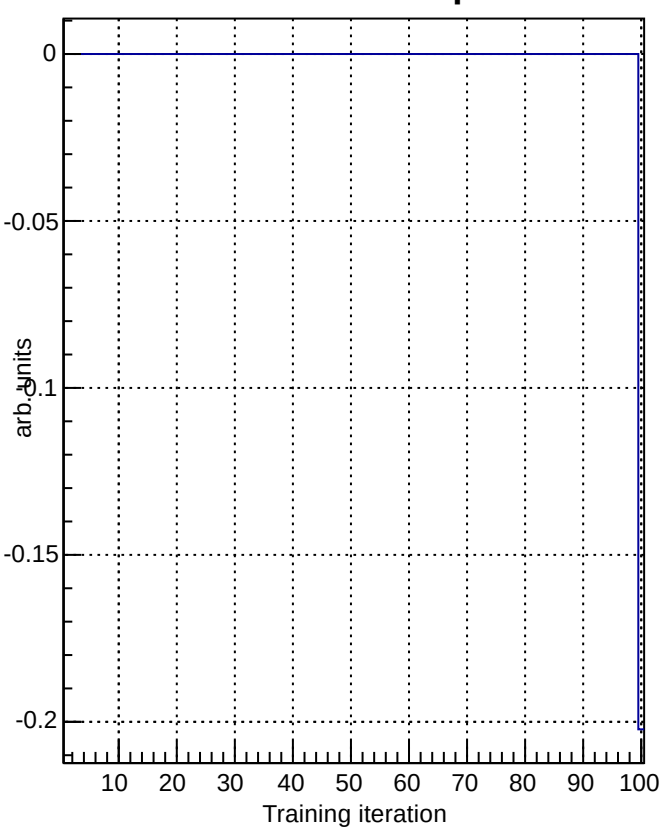
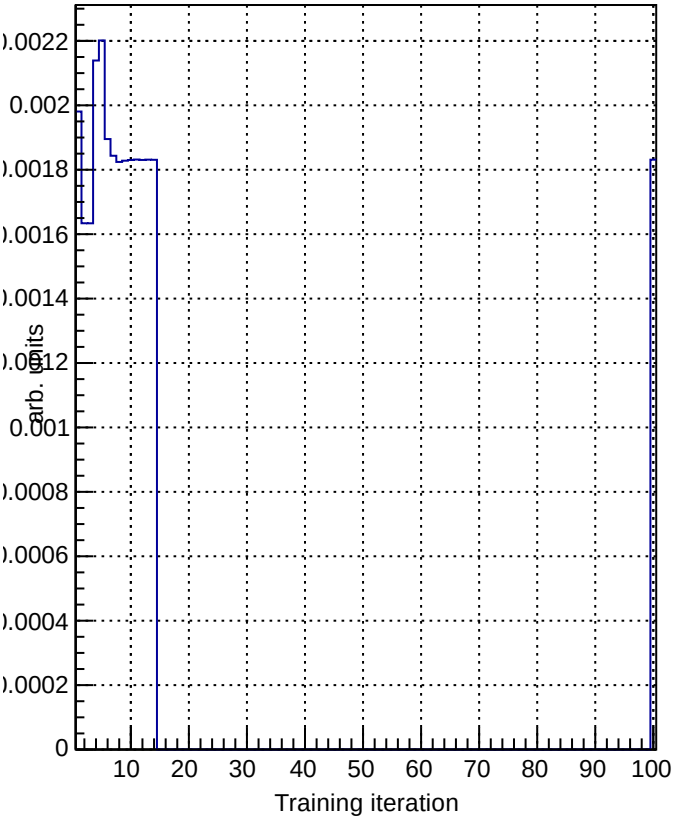
Error



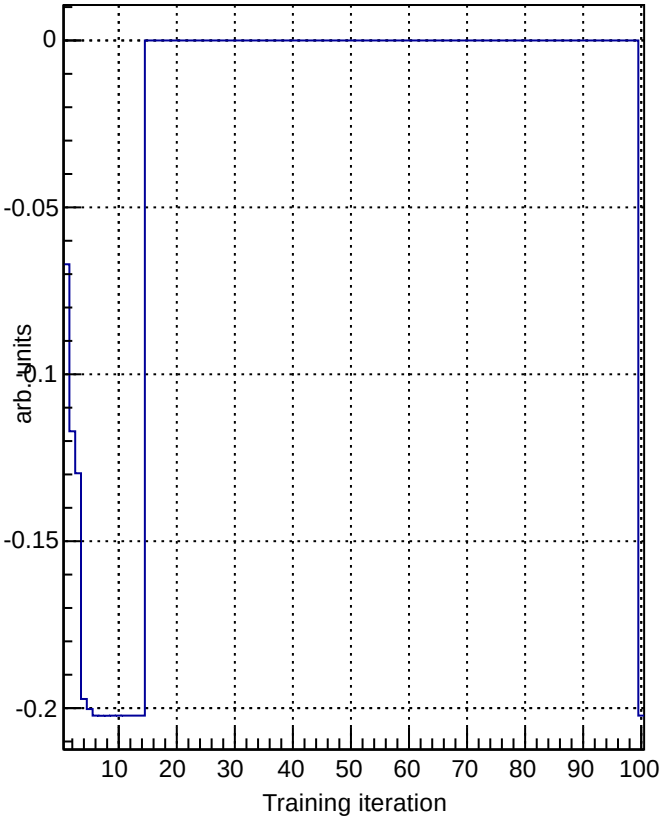
Error Testsample

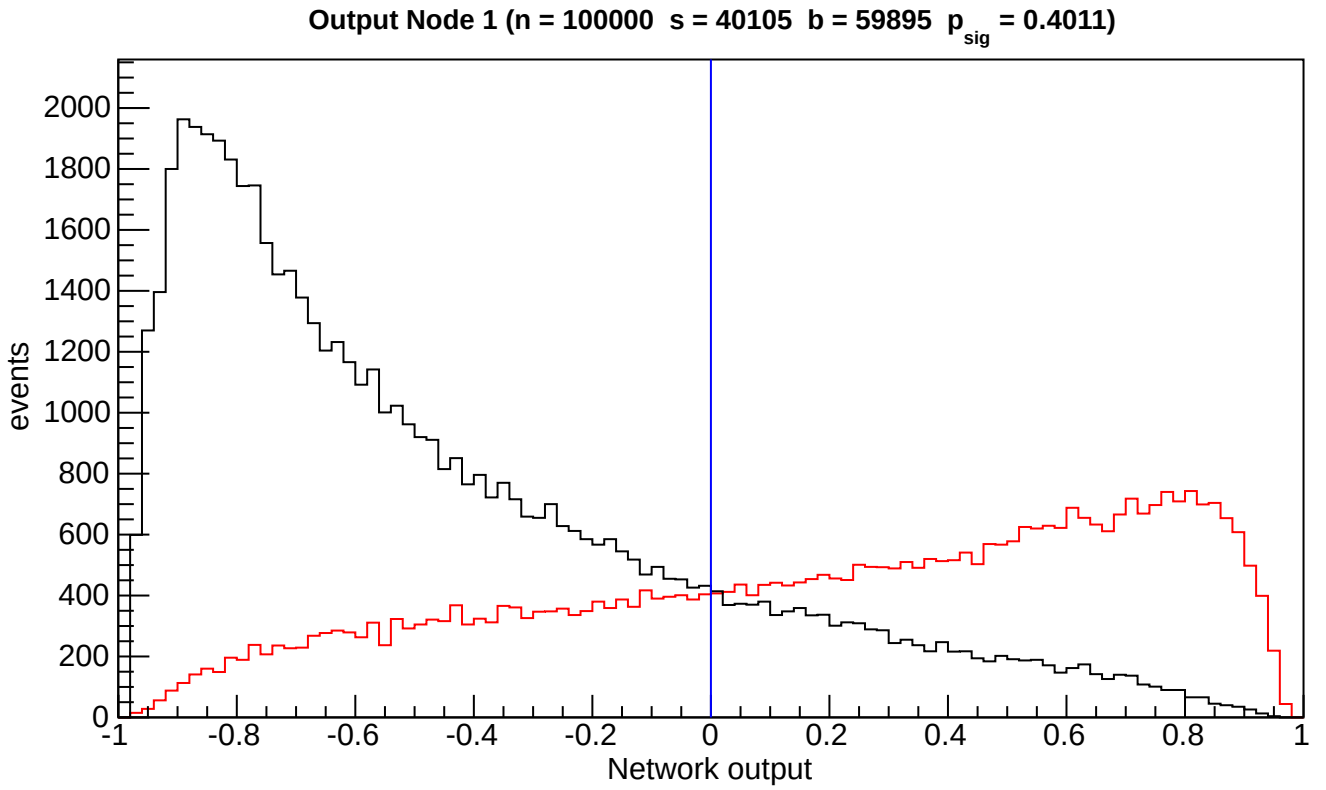


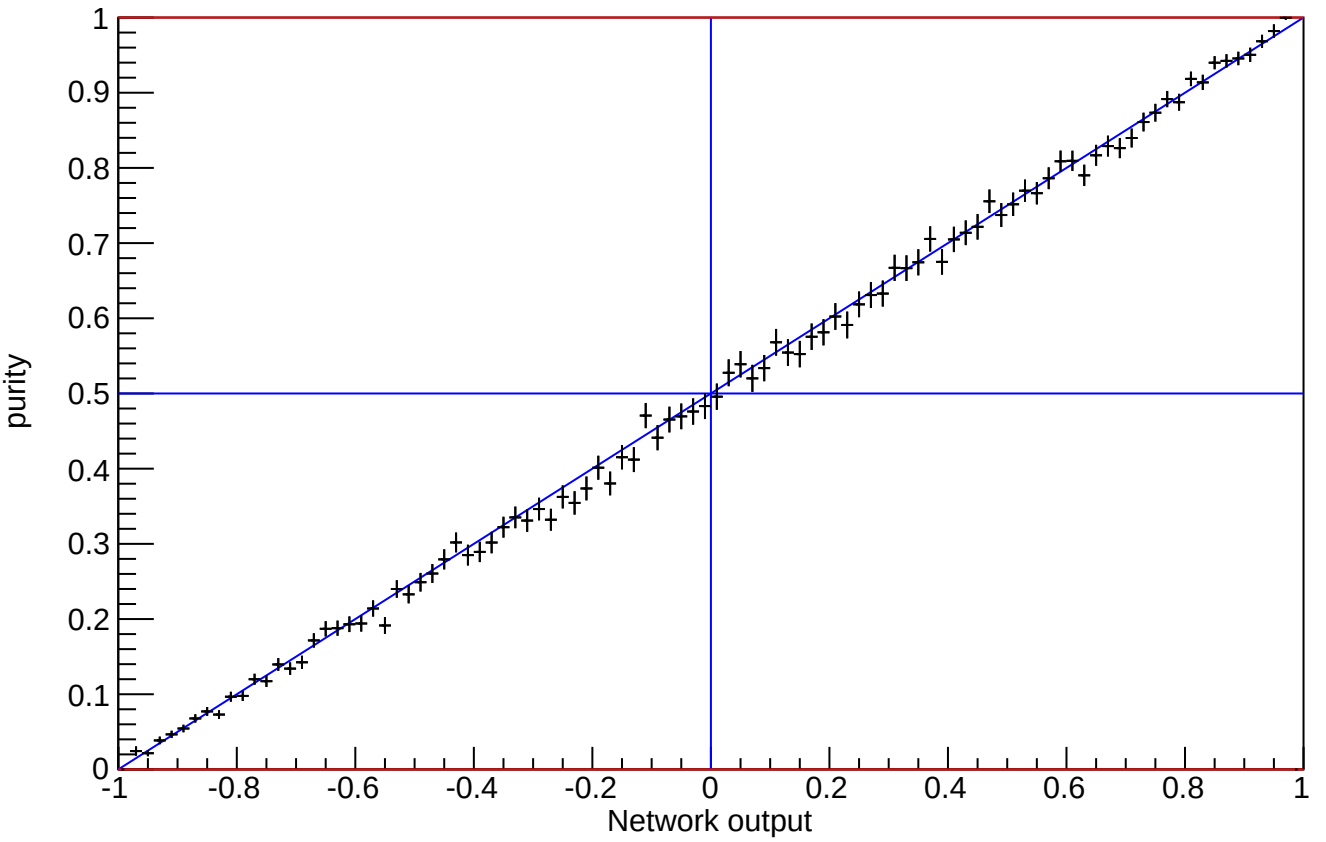
regularisation param. * weights

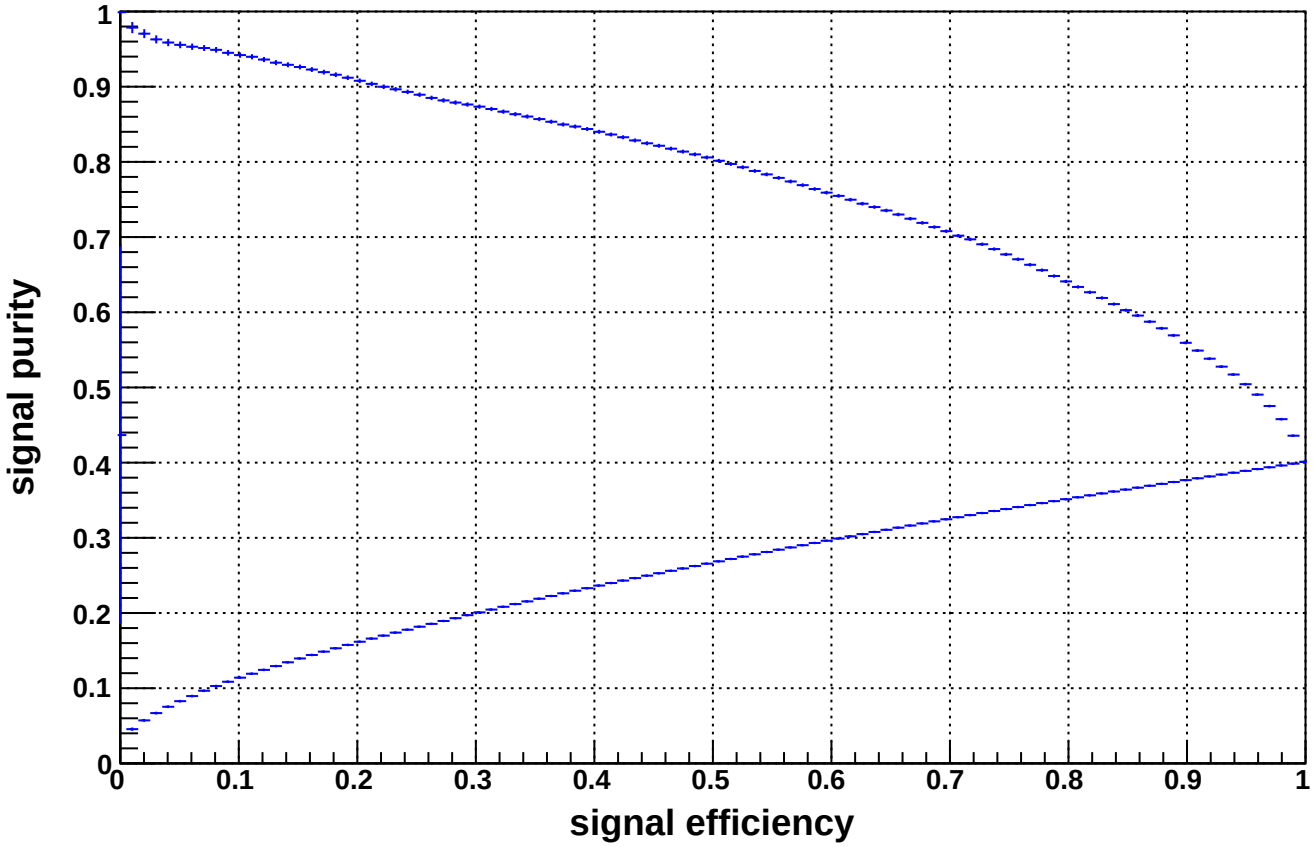


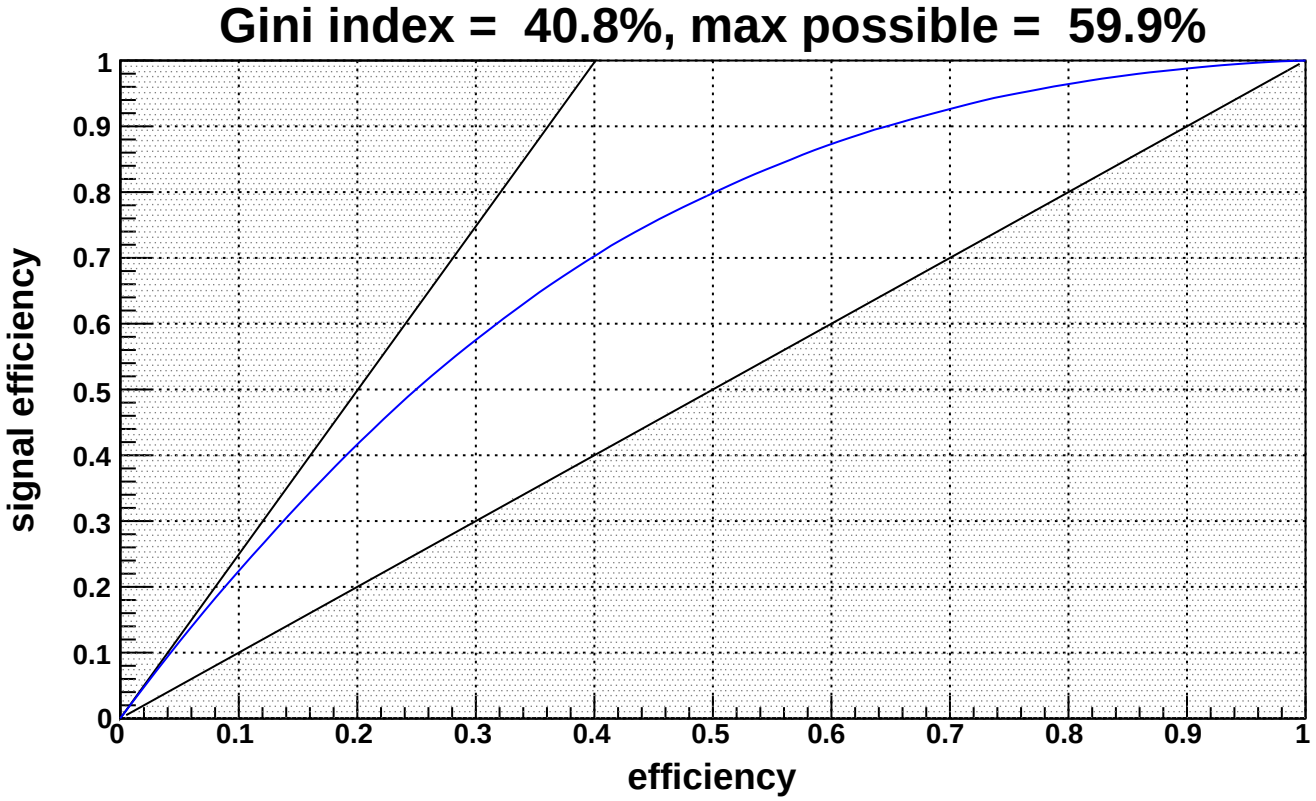
Err-Weight Learnsample



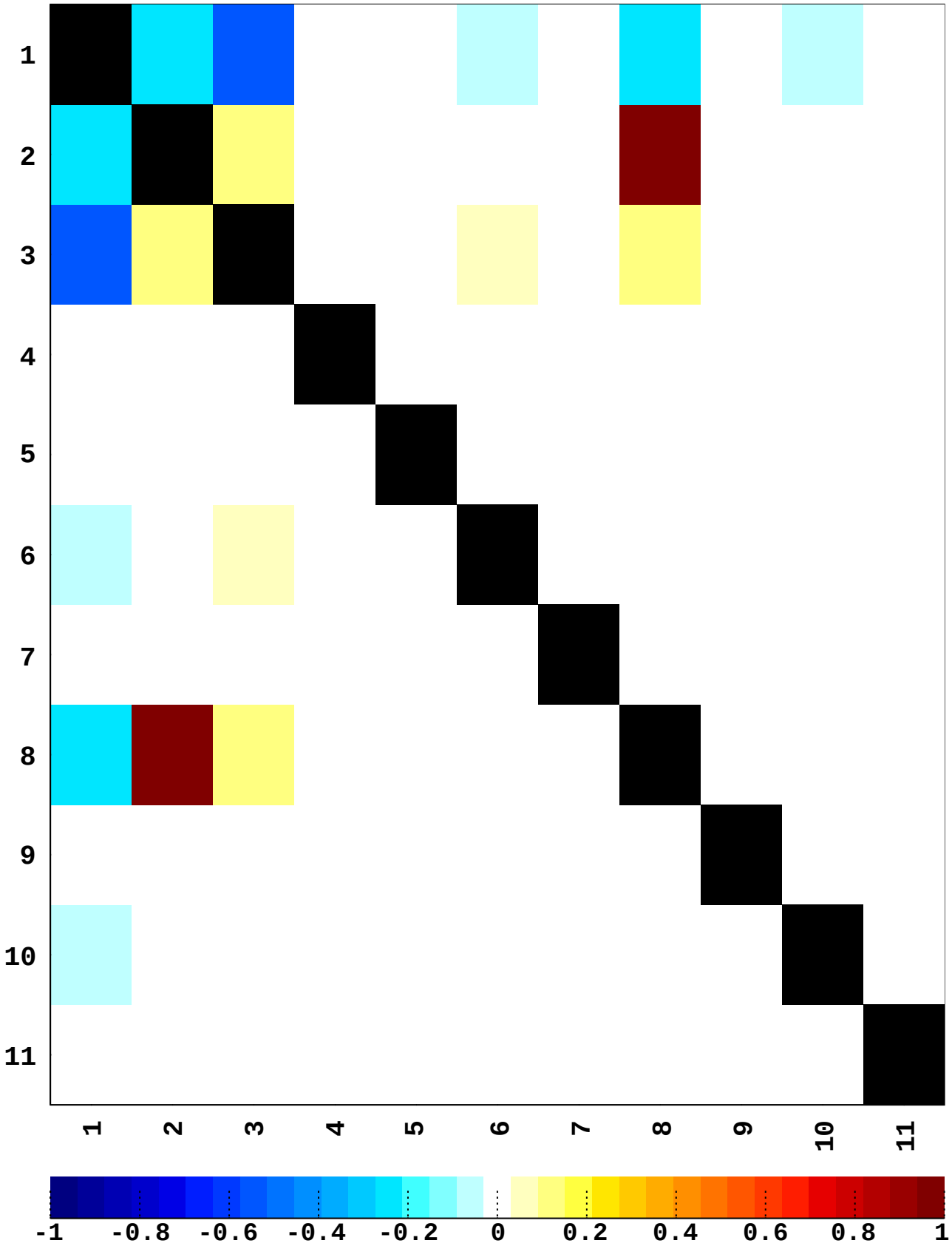

Output Node 1 (n = 100000 s = 40105 b = 59895 p_sig = 0.4011)
events
Network output
0
200
400
600
800
1000
1200
1400
1600
1800
2000
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1


purity
Network output
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1


signal purity
signal efficiency
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1


Gini index = 40.8%, max possible = 59.9%
signal efficiency
efficiency
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

correlation matrix of input variables



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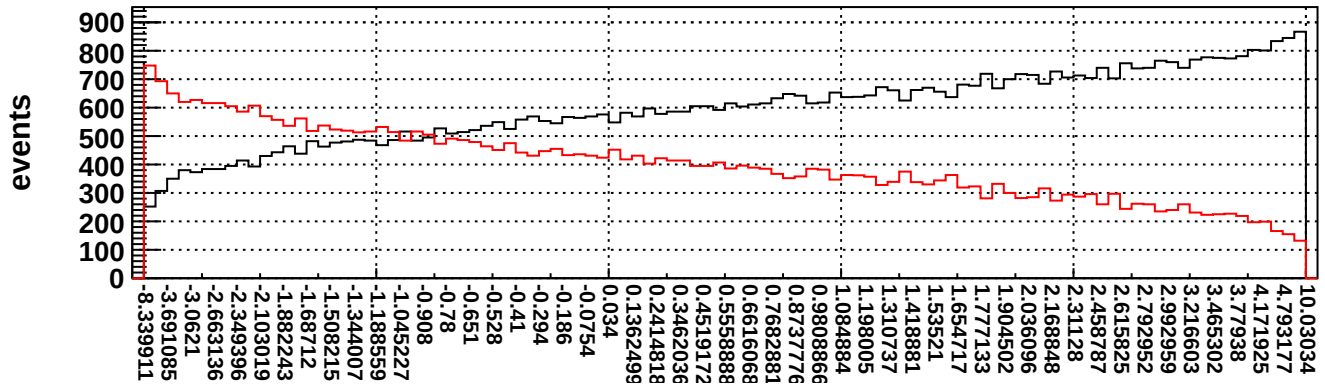
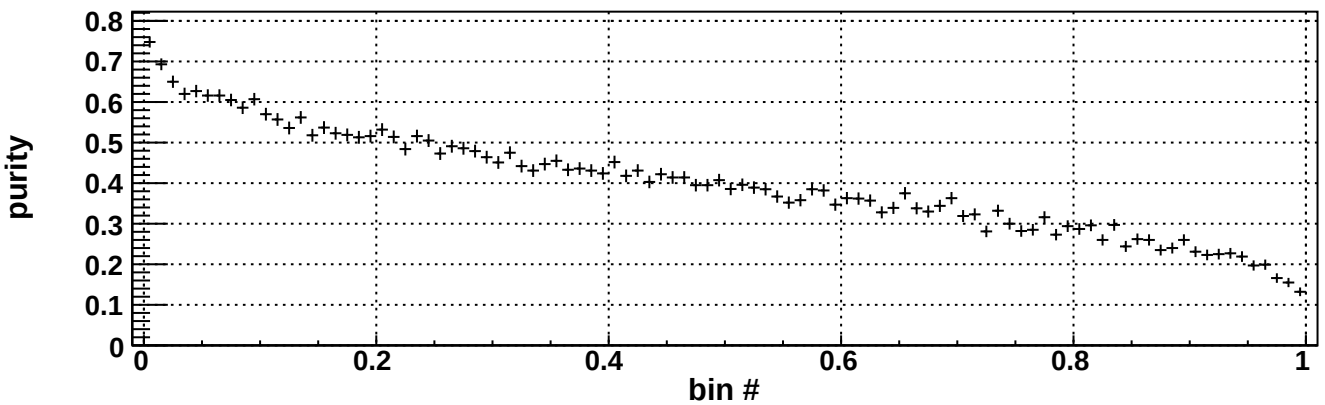
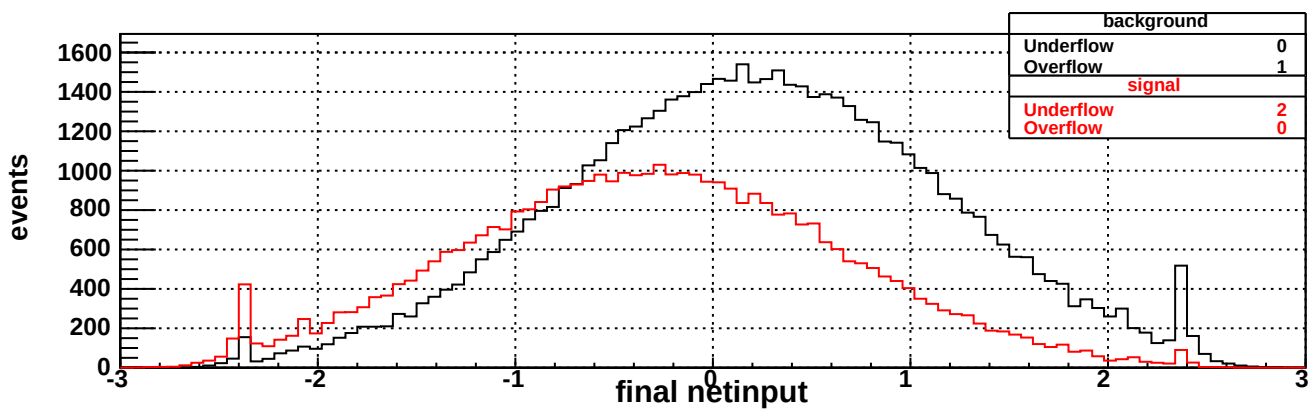


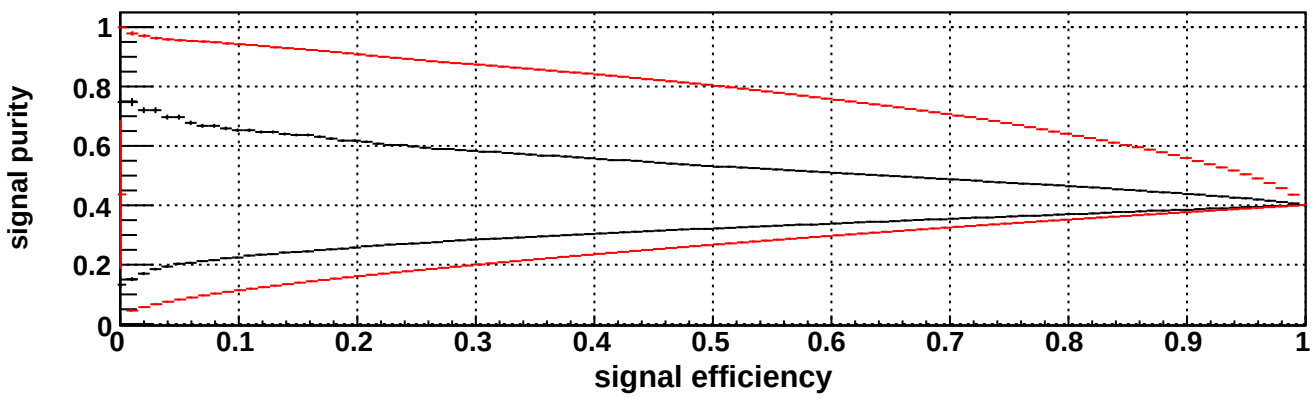
flat



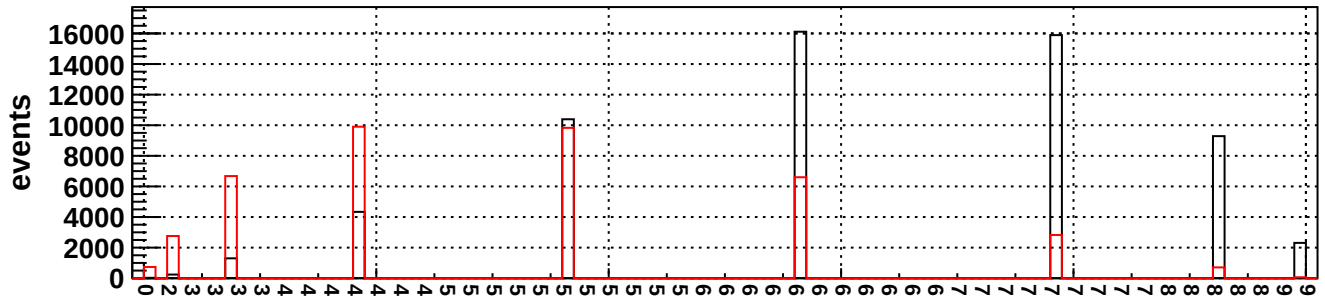
purity



final



separation



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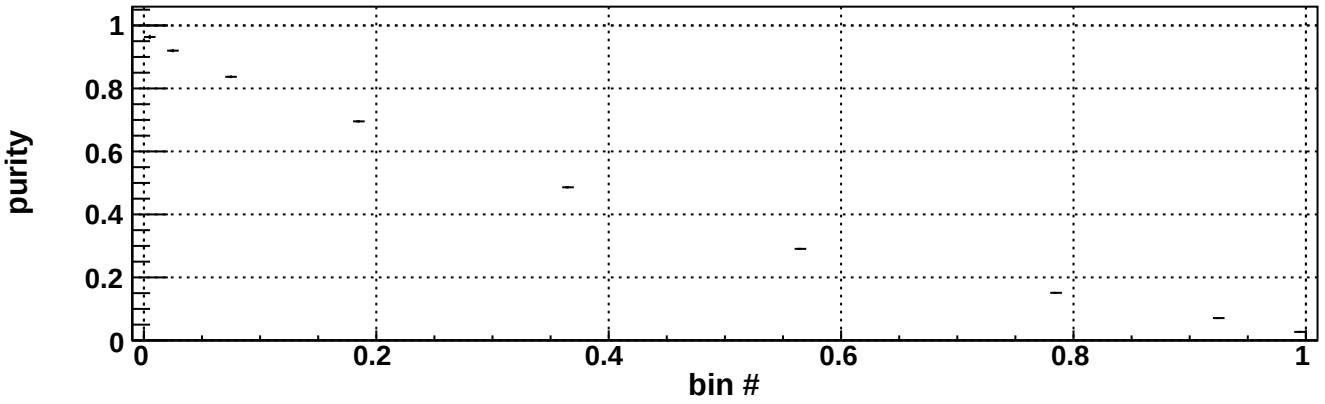
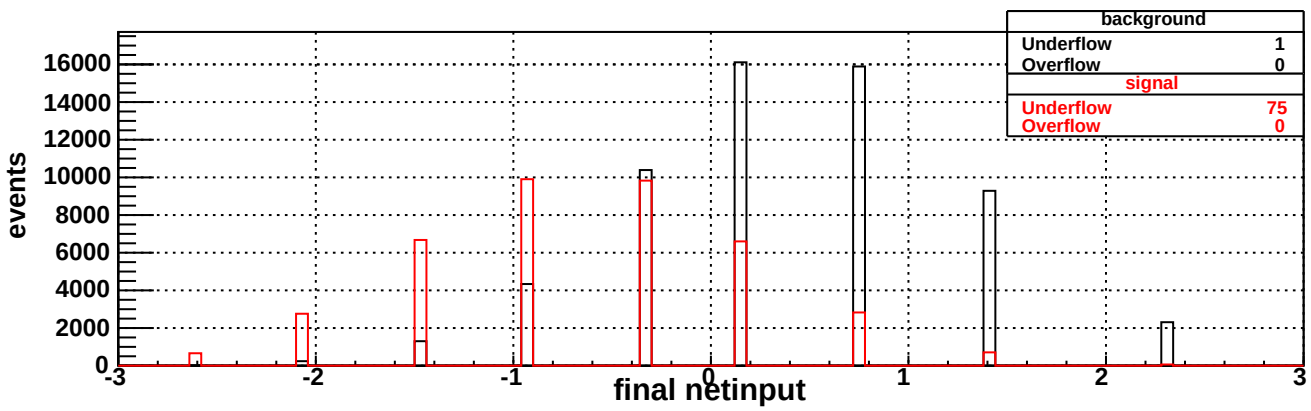
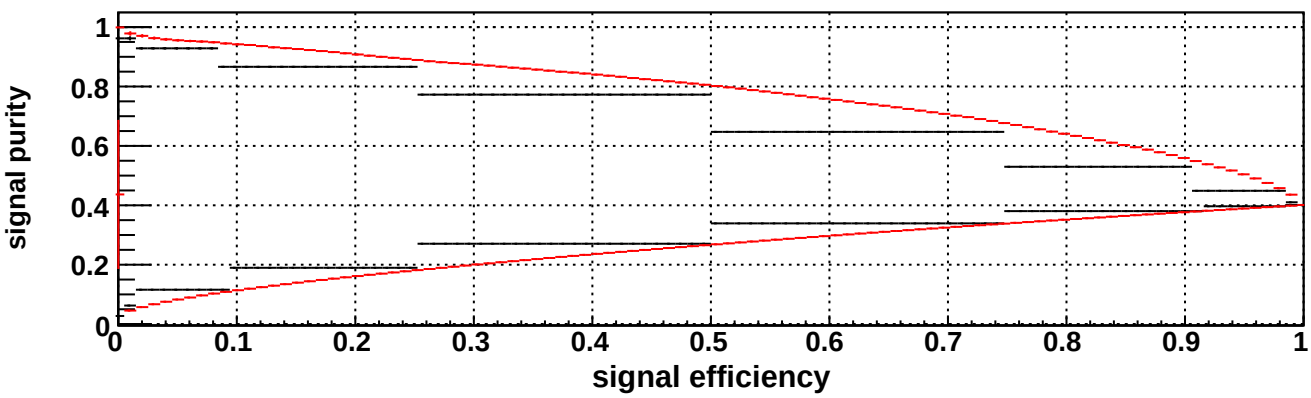


purity



final



separation

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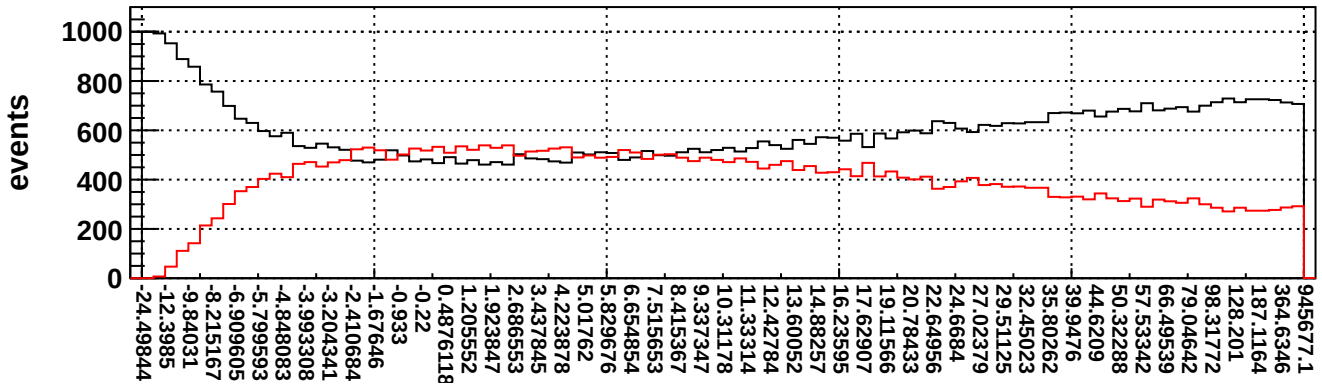

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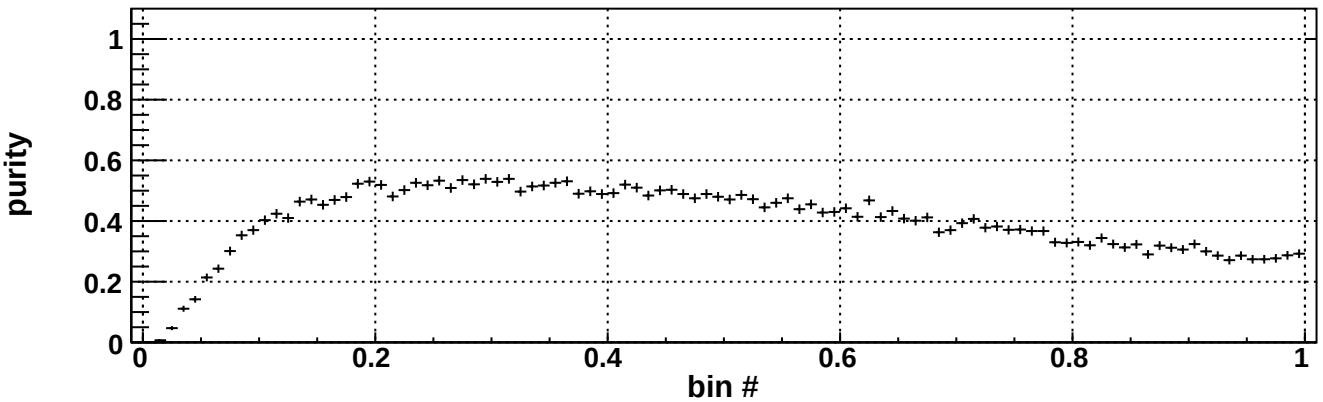
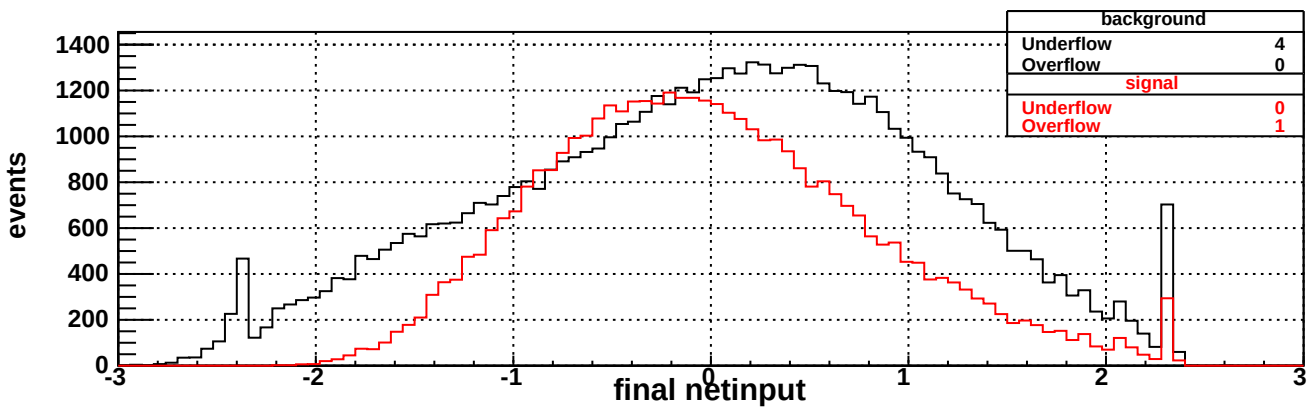
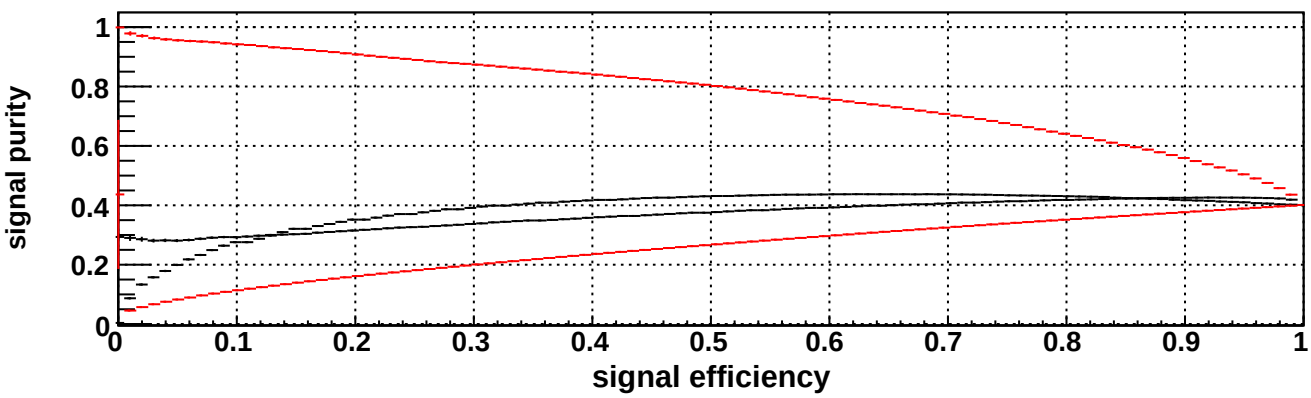


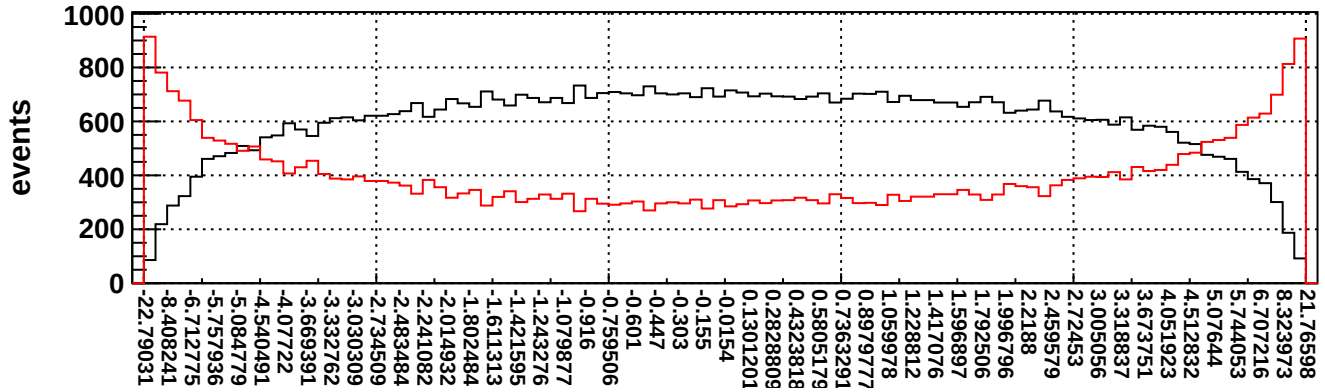
purity



final



separation



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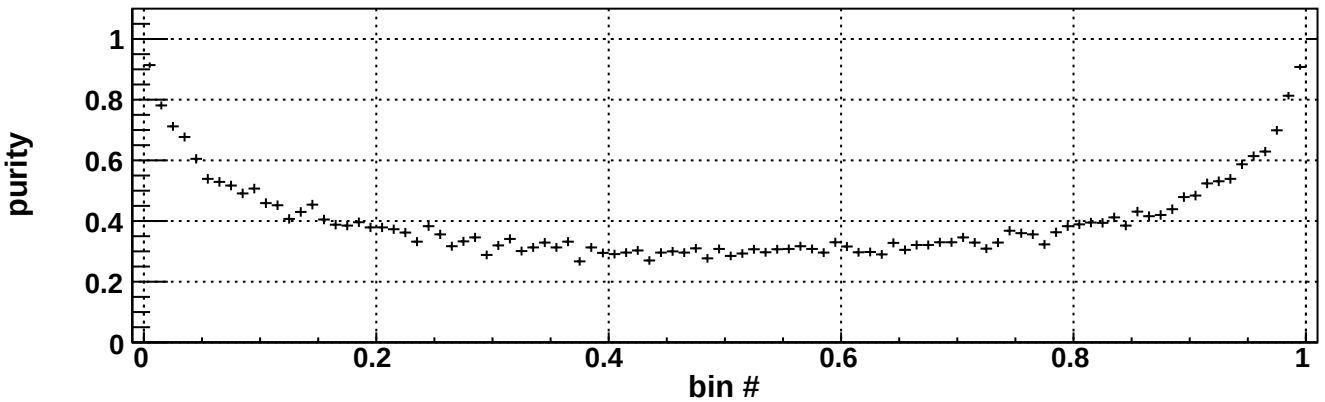
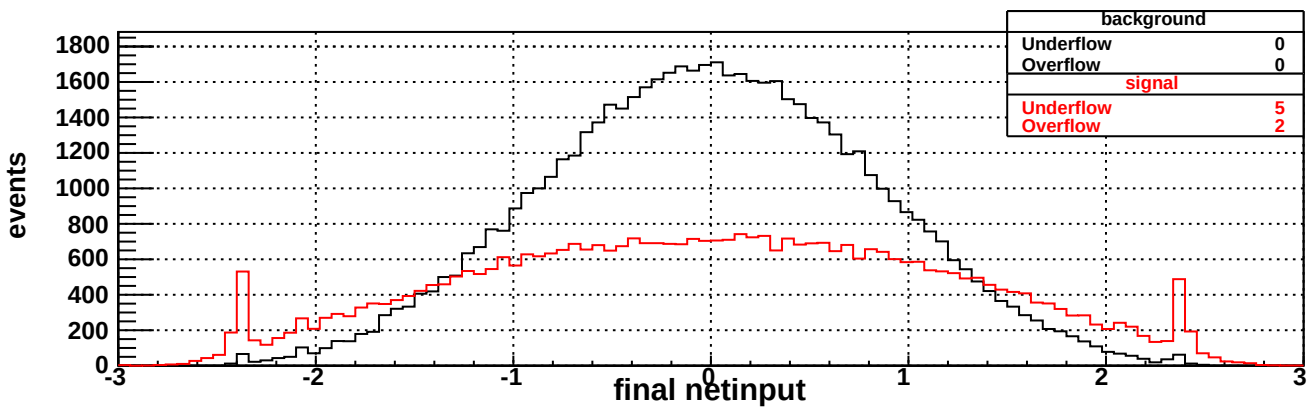


purity



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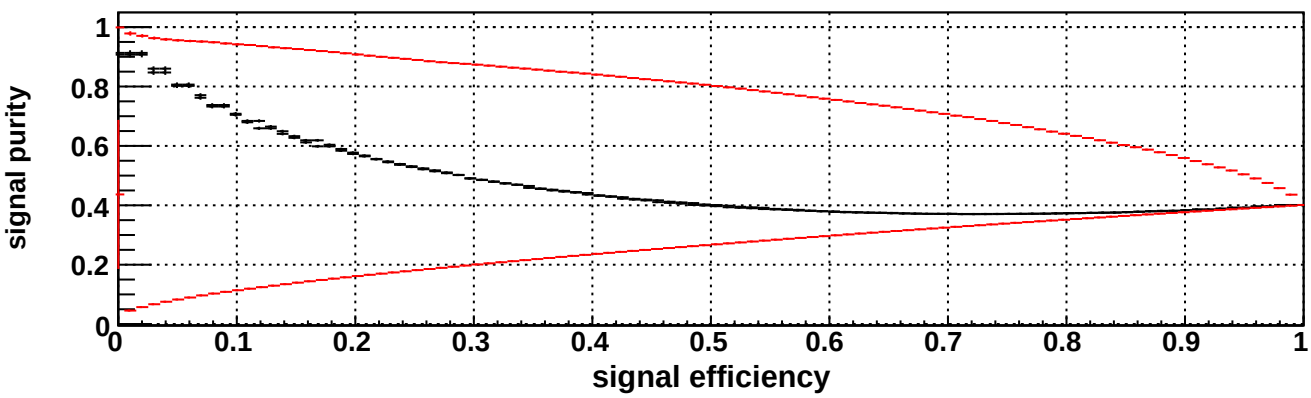

separation

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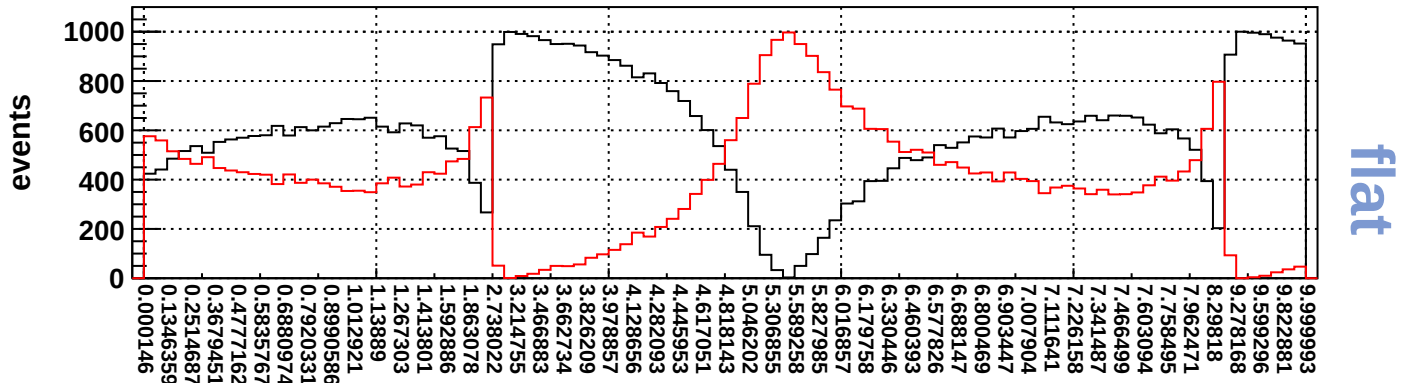

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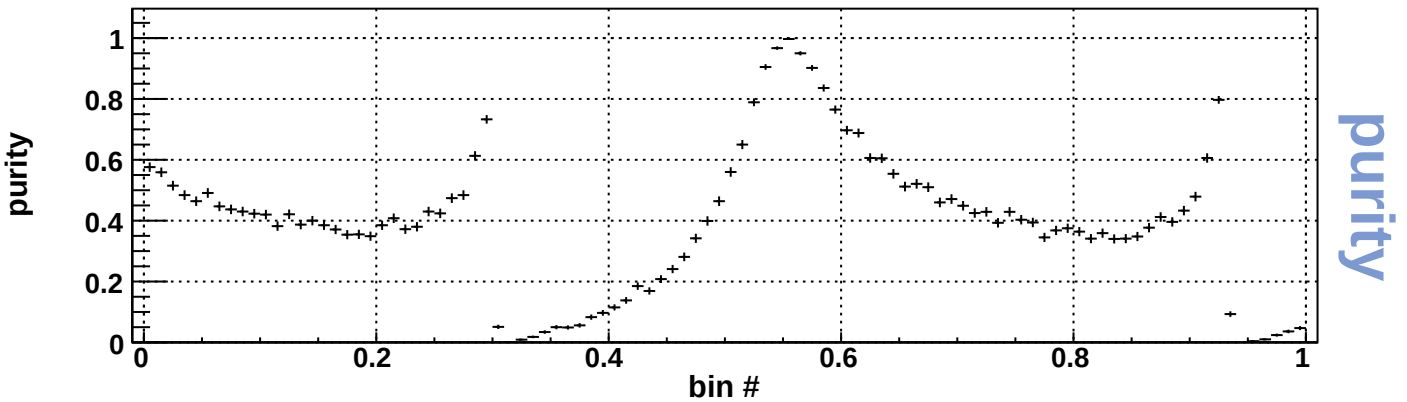

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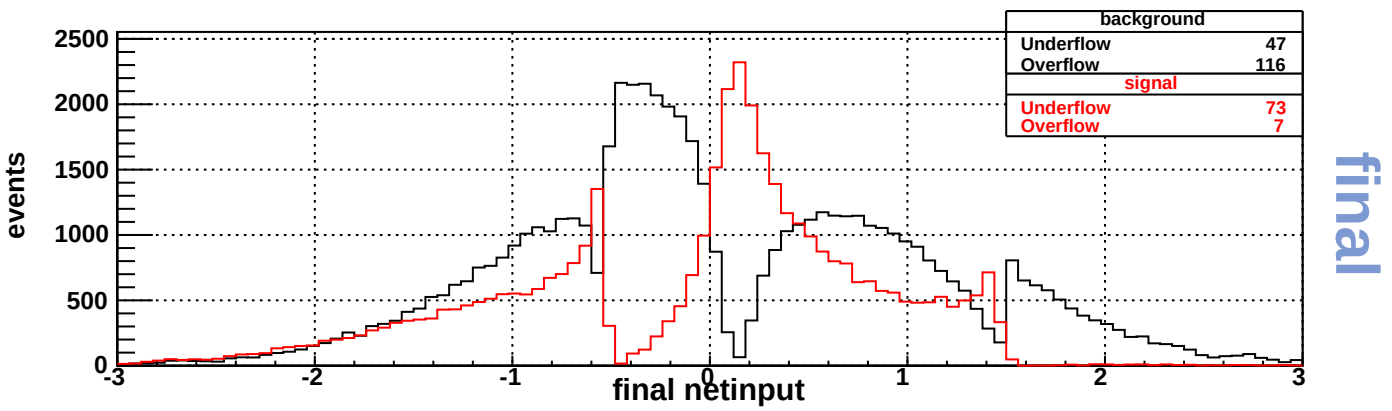

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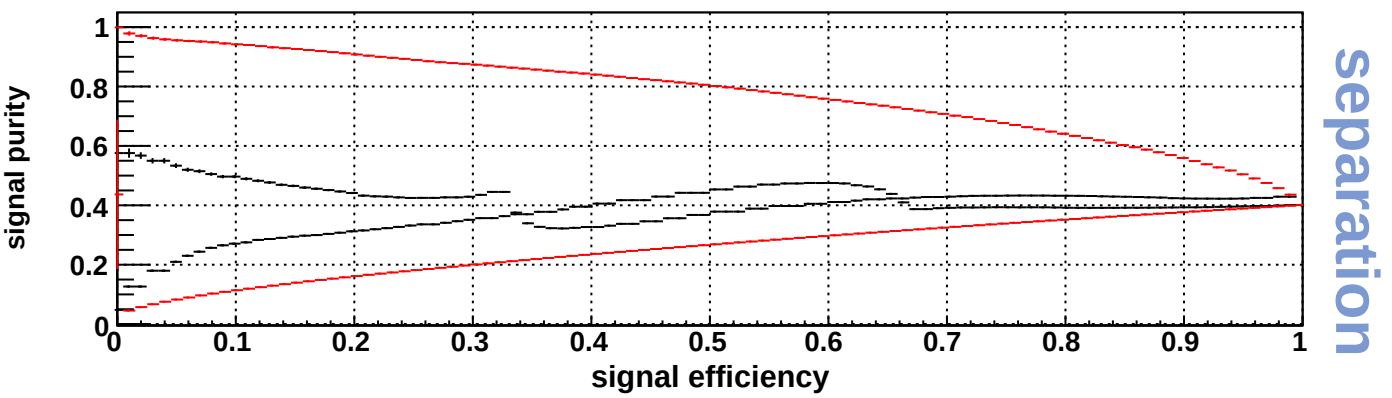

separation

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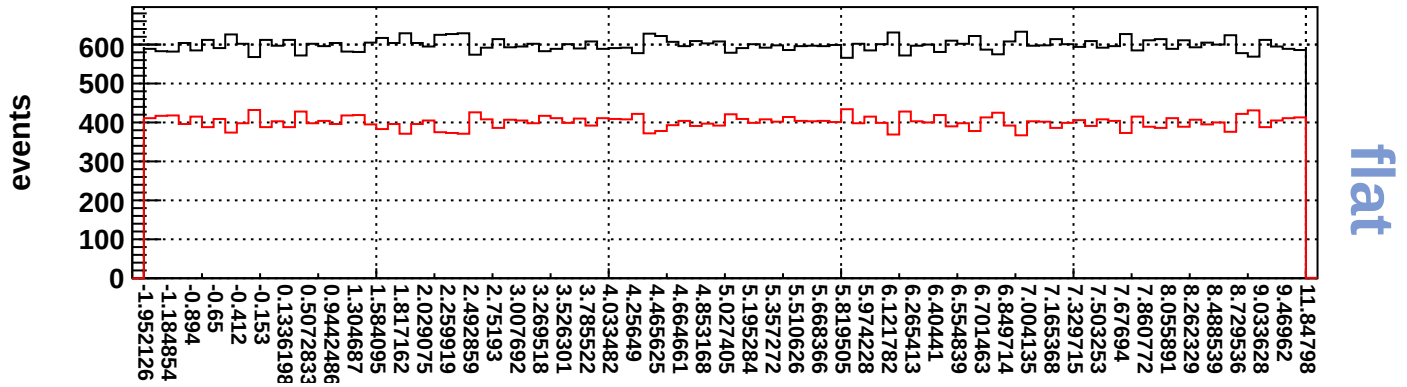

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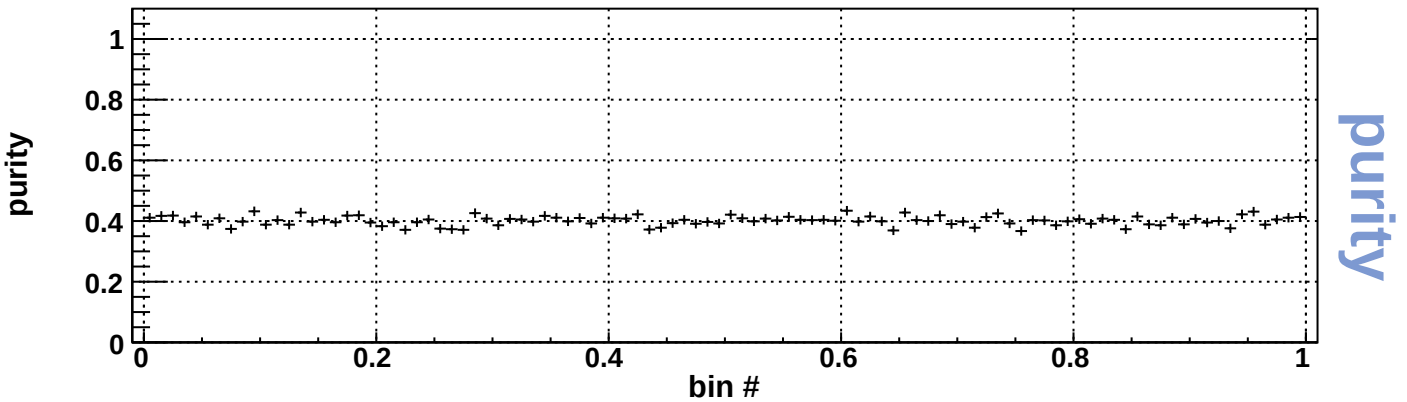
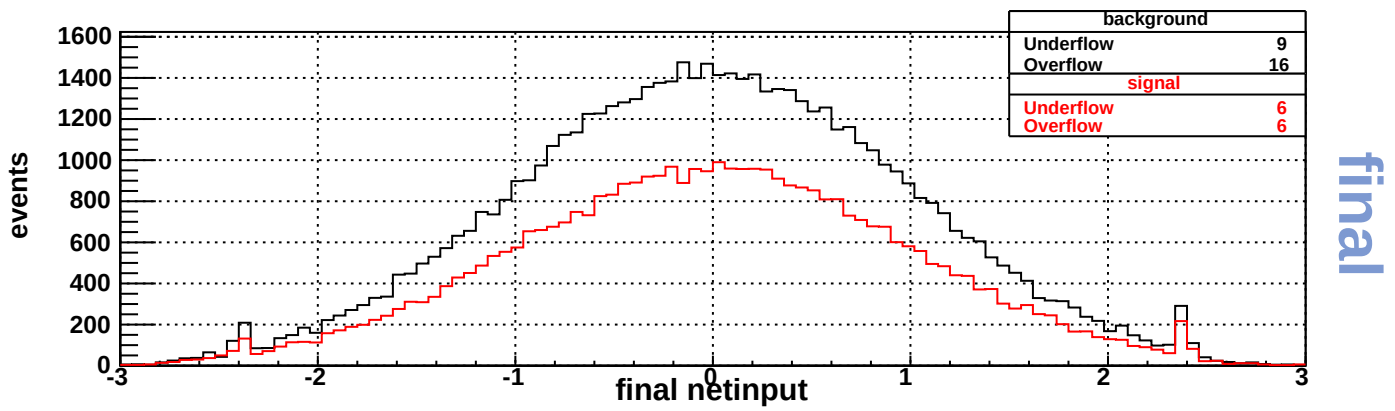
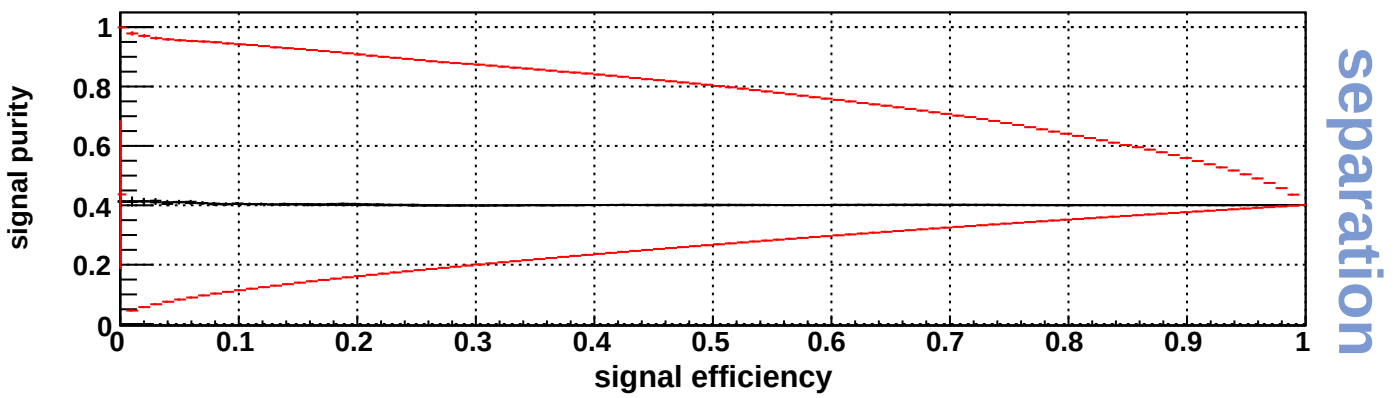


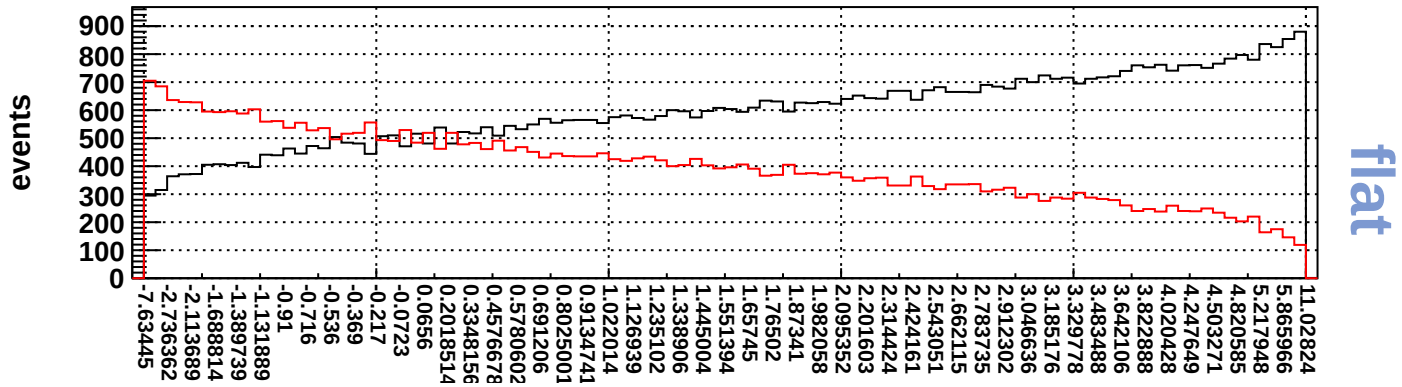
purity

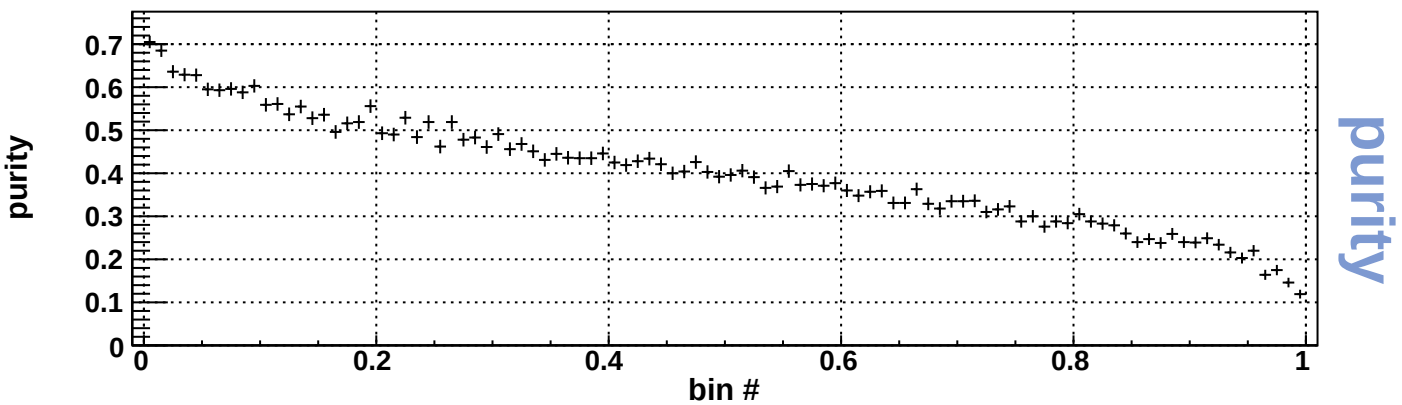


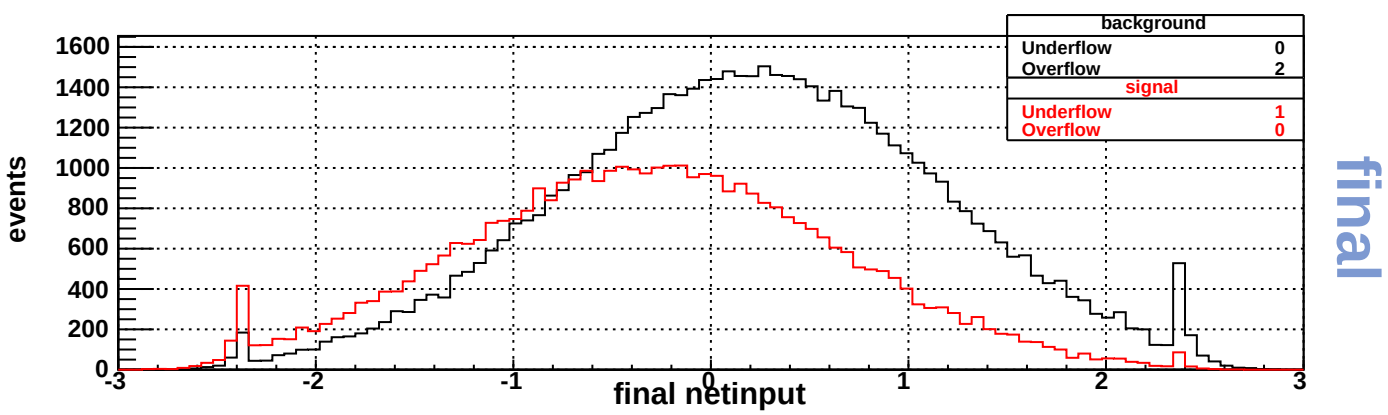
final

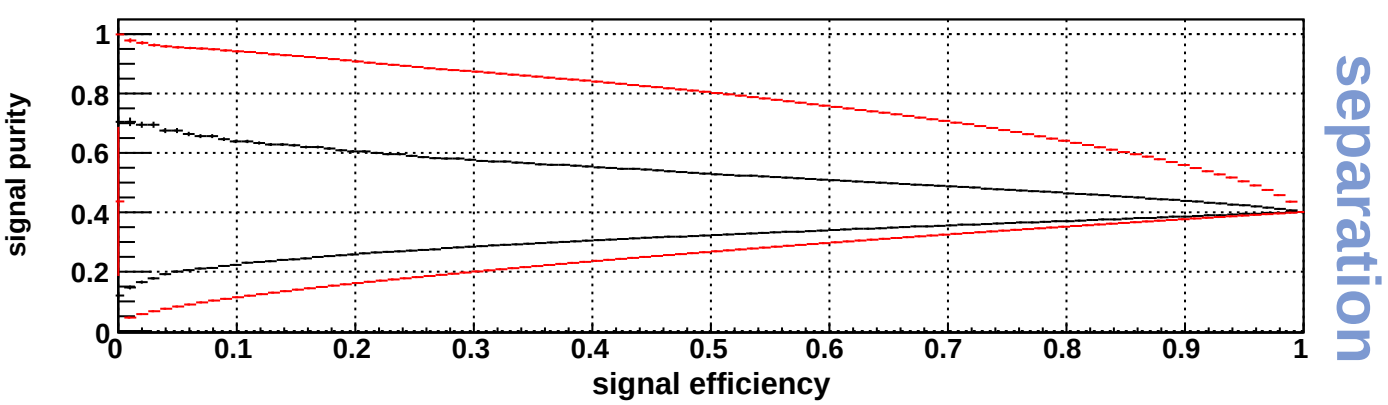


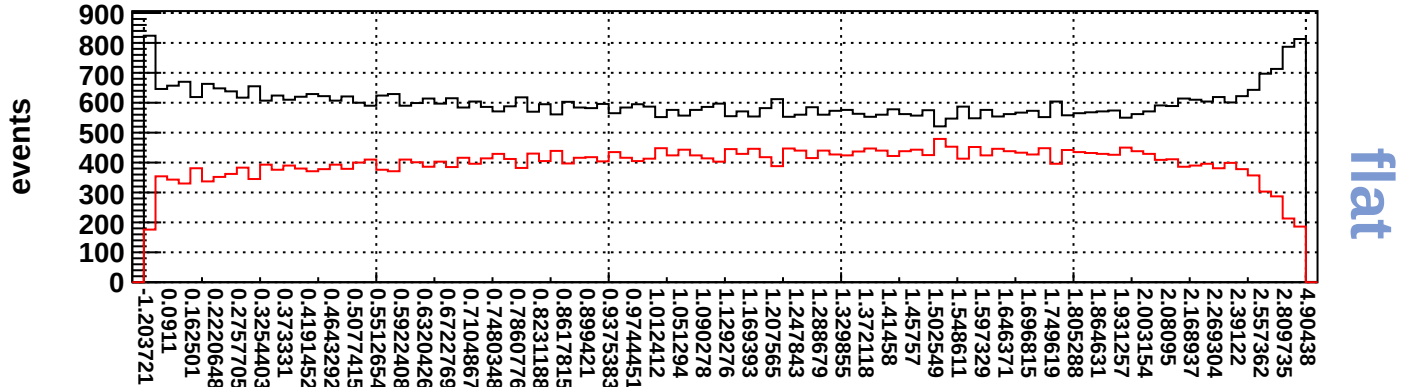
separation

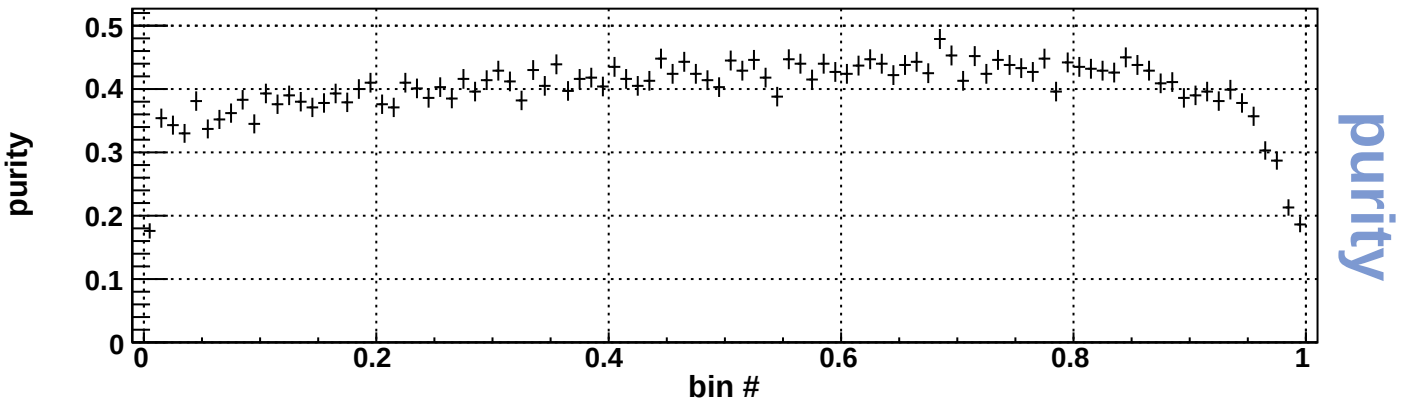

events
flat

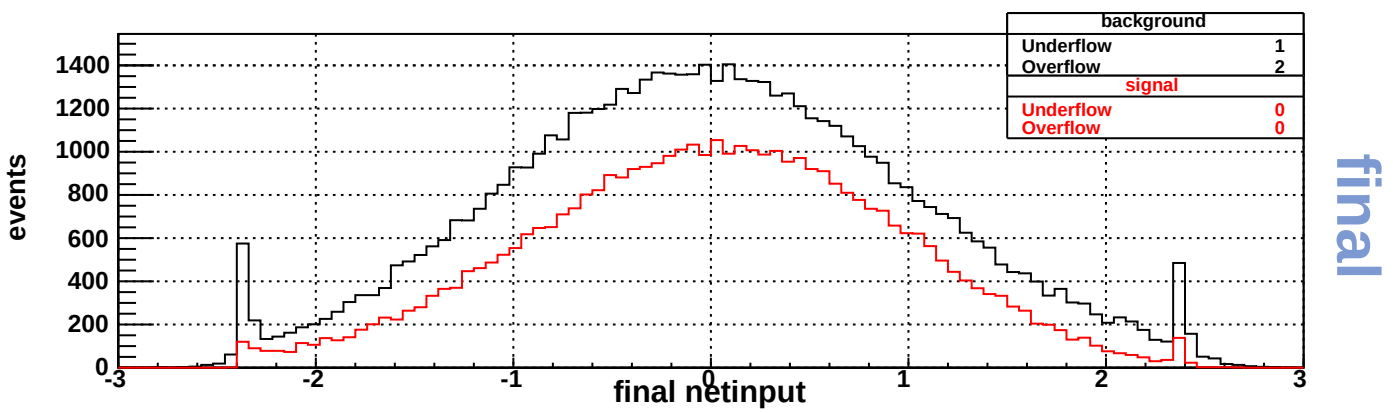

purity
bin #
purity

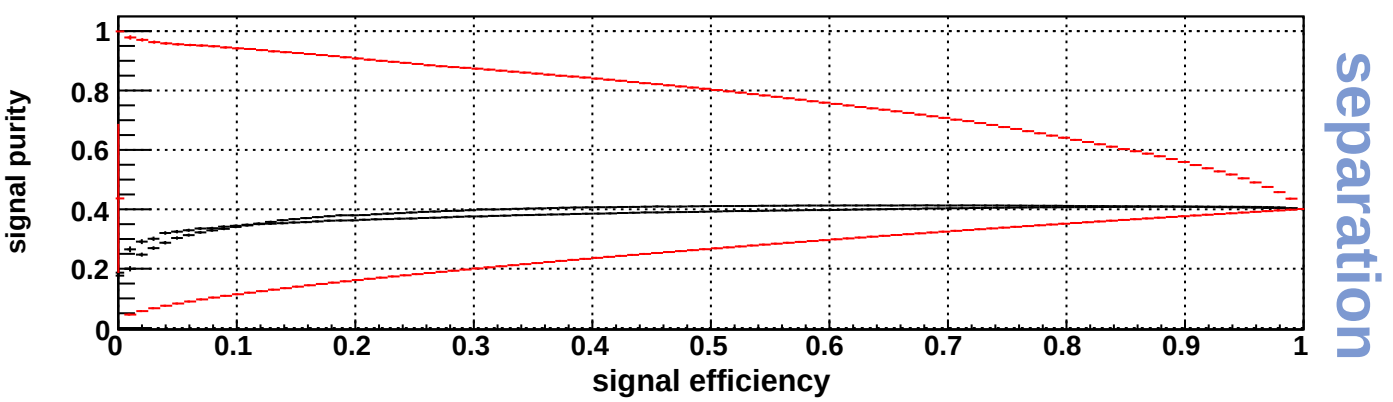

background
Underflow 0
Overflow 2
signal
Underflow 1
Overflow 0
events
final netinput
final

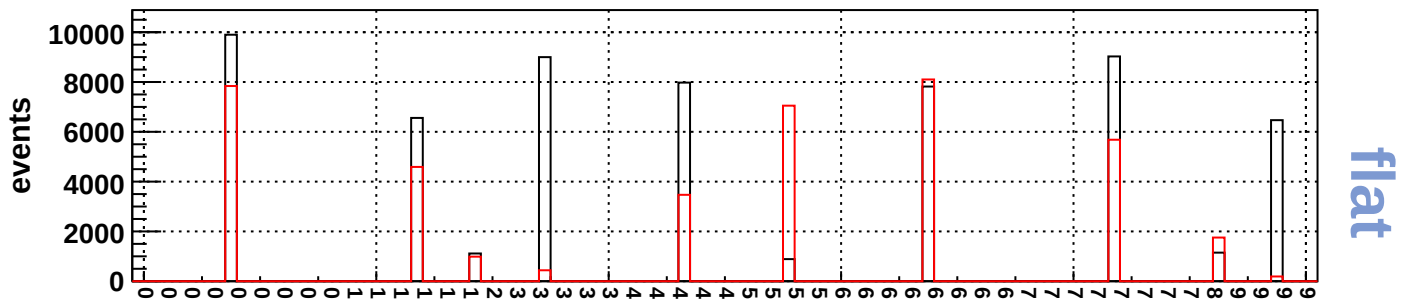

signal purity
signal efficiency
separation


events
flat


purity
bin #
purity


background
Underflow 1
Overflow 2
signal
Underflow 0
Overflow 0
events
final netinput
final


signal purity
signal efficiency
separation



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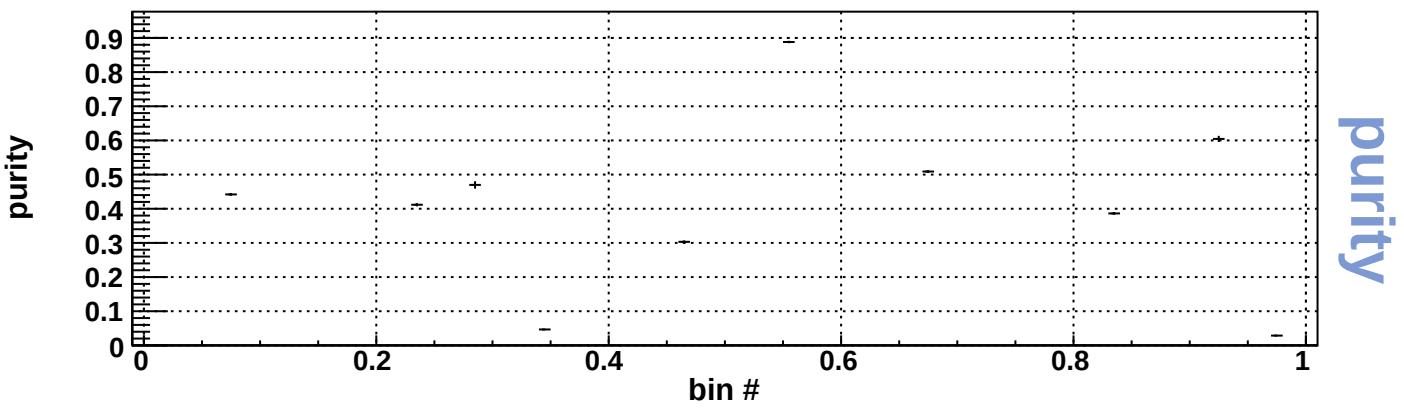
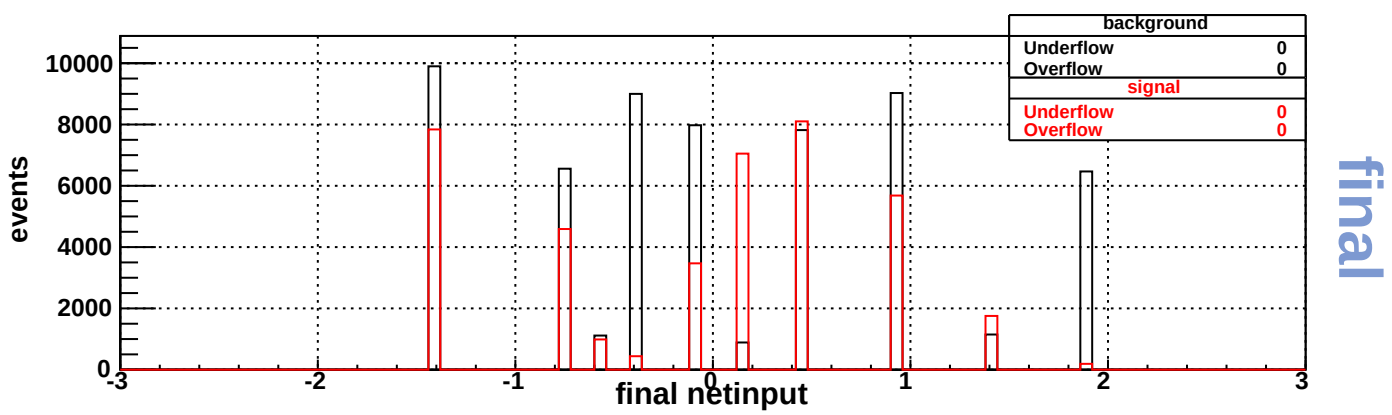
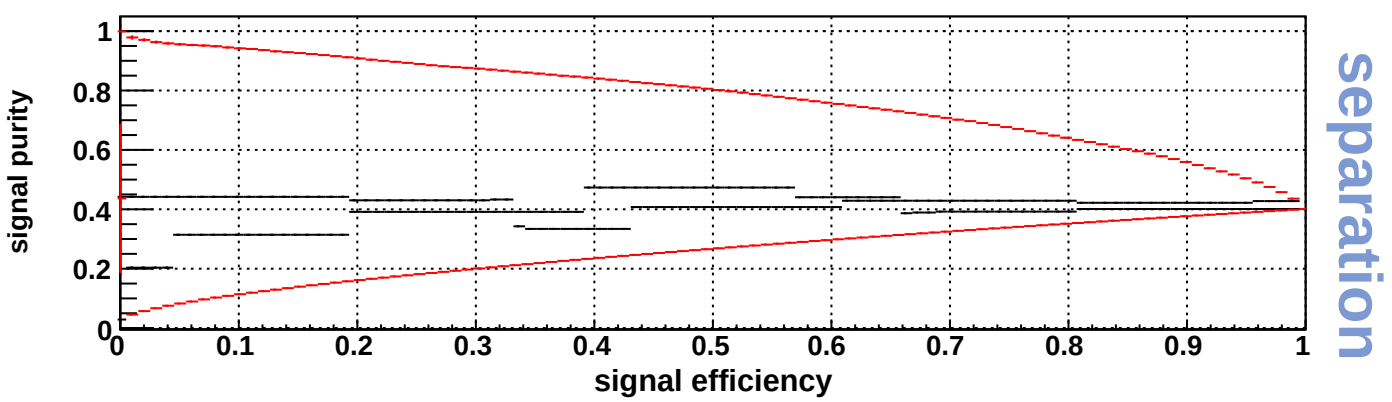


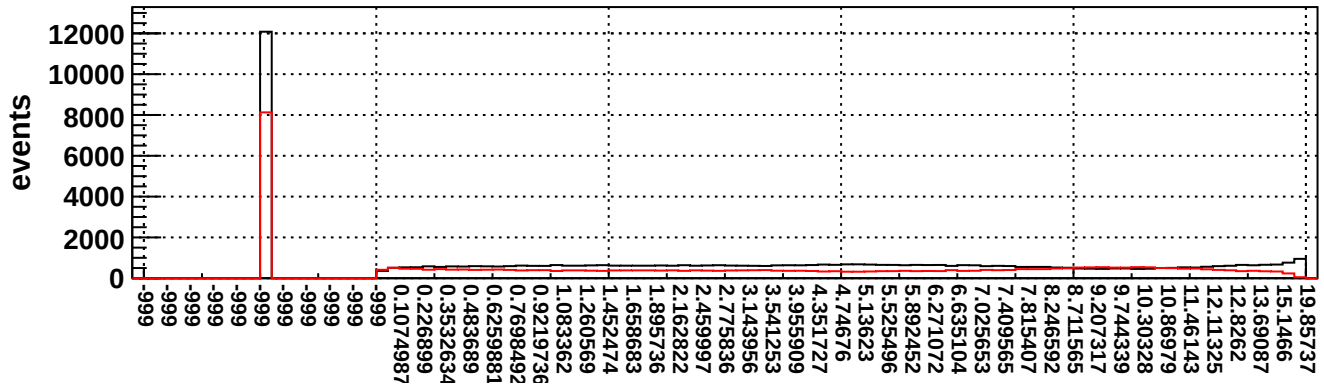
purity



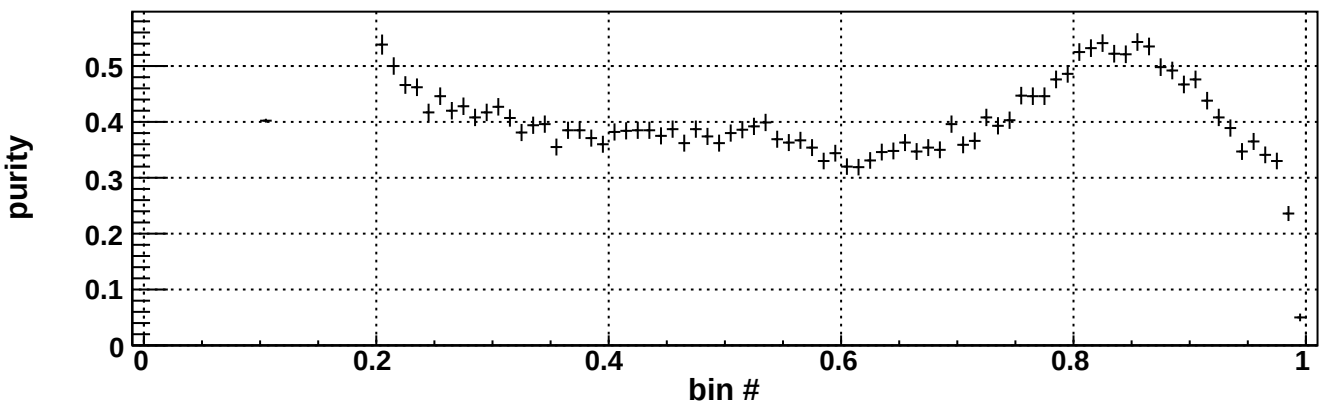
final



separation



flat



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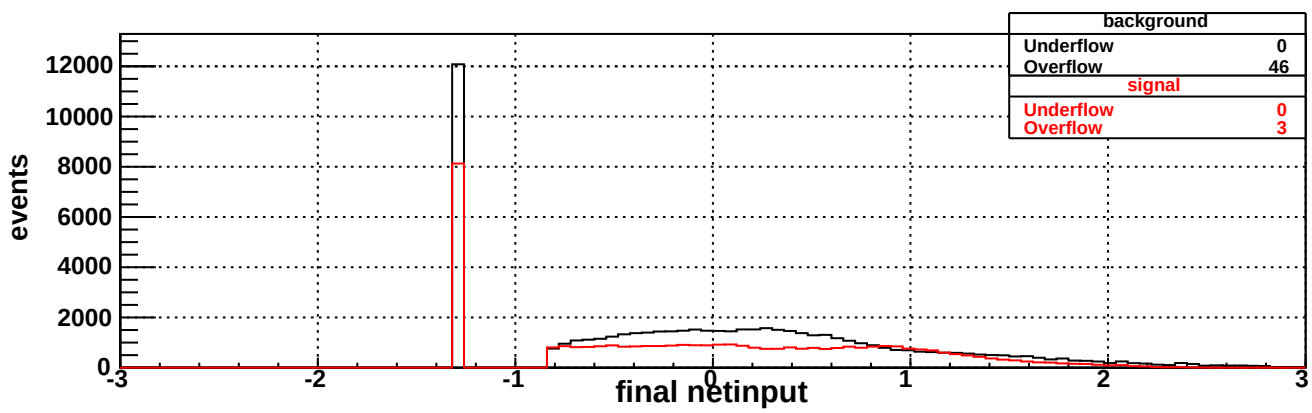
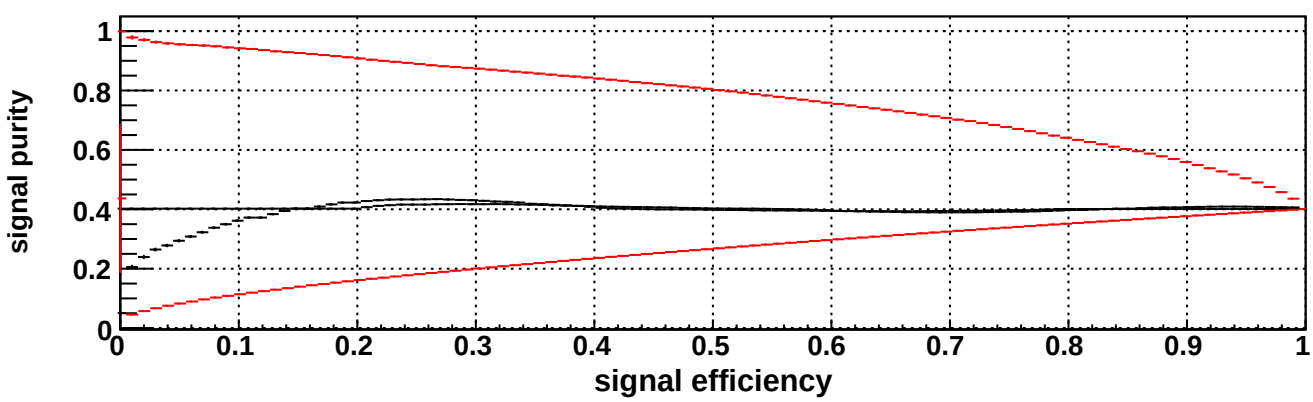
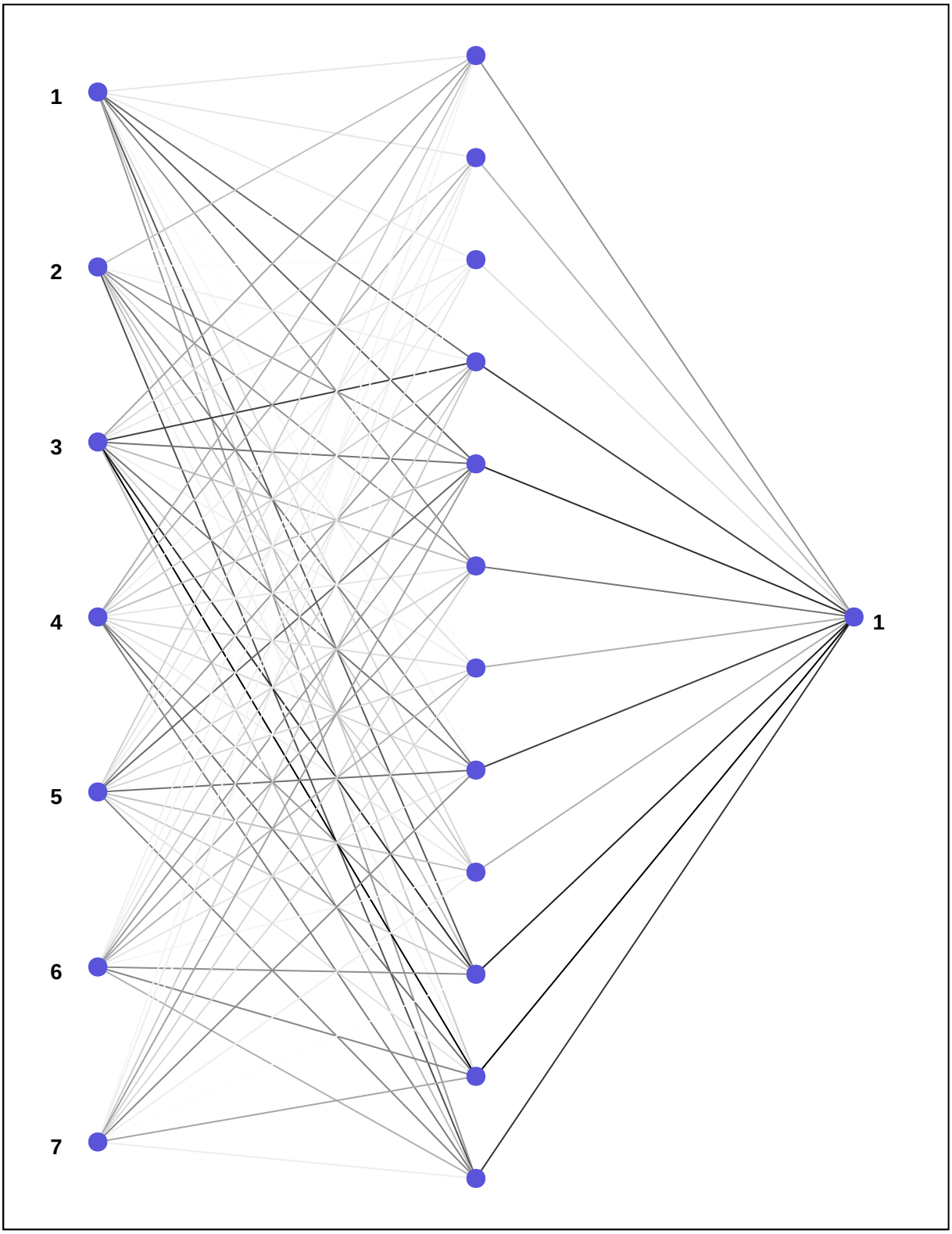


final



separation

Network at iteration 100