Cut efficiencies and optimal cut value

Signal efficiency
Background efficiency
Signal purity
Signal efficiency*purity
$S/\sqrt{S+B}$

Efficiency (Purity)

Significance

For 1000 signal and 1666 background events the maximum $S/\sqrt{S+B}$ is 28.2900 when cutting at 0.5022

Cut value applied on MLPBNN output