Cut efficiencies and optimal cut value

Legend: Signal efficiency, Background efficiency, Signal purity, Signal efficiency*purity, S/#sqrt{S+B}

For 390 signal and 320 background events the maximum S/√S+B is 16.1560 when cutting at -0.2606

Y-axis (left): Efficiency (Purity)
Y-axis (right): Significance
X-axis: Cut value applied on BDT output