Cut efficiencies and optimal cut value Signal purity Signal efficiency Signal efficiency*purity **Background efficiency** S/VS+B (Purity) Efficiency 8.0 0.6 0.4 0.2 For 2169 signal and 78159 background events the maximum S/VS+B is 11.0838 when cutting at 0.1348 0 -0.8-0.6-0.4-0.20.2 0.4 0.6 Cut value applied on BDT_bbar output