Cut efficiencies and optimal cut value Signal purity Signal efficiency Signal efficiency*purity **Background efficiency** S/\S+B 1.1 Efficiency (Purity) 30 1 0.9 20 8.0 0.7 10 0.6 For 1000 signal and 1000 background 5 events the maximum S/VS+B is 28.85 when cutting at 0.51 0.5 0.2 0.4 0.6 8.0 Cut value applied on MLP output