Cut efficiencies and optimal cut value Signal purity Signal efficiency Signal efficiency*purity **Background efficiency** S/\S+B Efficiency (Purity) 1 8.0 20 0.6 0.4 10 0.2 For 1000 signal and 1000 background 5 events the maximum S/VS+B is 28.99 when cutting at 0.20 0 0.2 0.1 0.3 0.4 0.5 0.6 0.7 8.0 0.9 Cut value applied on DNN CPU output