TMVA overtraining check for classifier: MLP (1/N) dN / dx Signal (test sample) Signal (training sample) **20 Background (test sample) Background (training sample)** 18 Kolmogorov-Smirnov test: signal (background) probability = 0.518 (0.271) 16 14 J/O-flow (S,B): (0.0, 0.0)% / (0.0, 0.0)%**12** 10 8 6 4 2 0.2 0.3 0.5 8.0 0.9 0.1 0.4 0.6 0.7 MLP response