TMVA overtraining check for classifier: tanh Signal (training sample) Signal (test sample) **Background (test sample) Background (training sample) 30** Kolmogorov-Smirnov test: signal (background) probability = 0.348 (0.003) **25** J/O-flow (S,B): (0.0, 0.0)% / (0.0, 0.0)% **20** 15 10 5 0.2 8.0 0.9 0.1 0.3 0.5 0.6 0.7 0.4

(1/N) dN / dx

tanh response