TMVA overtraining check for classifier: BDTG (1/N) dN / dx Signal (test sample) Signal (training sample) 18 **Background (test sample) Background (training sample)** 16 Kolmogorov-Smirnov test: signal (background) probability = 0.56 (0.288) 14 **12** J/O-flow (S,B): (0.0, 0.0)% / (0.0, 0.0)%10 8 6 4 2 -0.4-0.6-0.20.2 0.6 8.0 0 0.4 **BDTG** response