TMVA overtraining check for classifier: BDT1 Signal (test sample) Signal (training sample) 2 **Background (test sample) Background (training sample)** 1.8 Kolmogorov-Smirnov test: signal (background) probability = 0.006 (0.269) 1.6 1.4 J/O-flow (S,B): (0.0, 0.0)% / (0.0, 0.0)% 1.2 8.0 0.6 0.4 0.2

-0.2

0

-0.6

-0.8

(1/N) dN / dx

BDT1 response

0.6

0.2

0.4