TMVA overtraining check for classifier: BDT Signal (test sample) Signal (training sample) 4.5 Background (test sample) Background (training sample) 4 Kolmogorov-Smirnov test: signal (background) probability = 0.049 (0.005) 3.5 2.5 1.5 J/O-flow (S,B): (0.0, 0.5

-0.2

0

-0.6

-0.4

-0.8

(1/N) dN / dx

BDT response

0.4

0.2