TMVA overtraining check for classifier: KNN Signal (test sample) Signal (training sample) 22 **Background (test sample) Background (training sample)** 20 Kolmogorov-Smirnov test: signal (background) probability = 0.621 (0.249) 18 16 J/O-flow (S,B): (0.0, 0.0)% / (0.0, 0.0)% 14 **12** 10 6 4 2 0 0.6 8.0 0.2 0.4 **KNN** response

(1/N) dN / dx