Test on 1000 backgrounds and 100 signals MMD-L 5 MMD-G MMD-O Scheffe soft MMD-L-thres(learn) 4 · MMD-G-thres(learn) MMD-O-thres(learn) Scheffe-thres(learn) p-value/σ Scheffe-thres(1/2) 2 1 0.0.2 8.0 1.4 2.0 2.6 training set size/million