mimic GMM (init set=100:0-(500, 2)); init val==X test,arrival set=500,test set=400;n rp=5;seed=10 (n cp= $\overline{1}$, diag; gs= \overline{F} ; std= \overline{F} ctr= \overline{F} ; KJL= \overline{F} , c= \overline{F} ; ms= \overline{T}) 10 -Batch **Batch** 0.004 Online Online 8 0.003 6 0.002 4 0.001 2 2.5 5.0 7.5 10.0 2.5 5.0 7.5 0.0 0.0 10.0 1.00 2.5 n_components 0.75 2.0 0.50 1.5 Batch **Batch** 0.25 1.0 Online Online 0.00 0.0 2.5 5.0 7.5 2.5 5.0 7.5 10.0 10.0 0.0

X-axis:(The ith batch: i * batch size(50) datapoints)

Training time (s)

AUCs