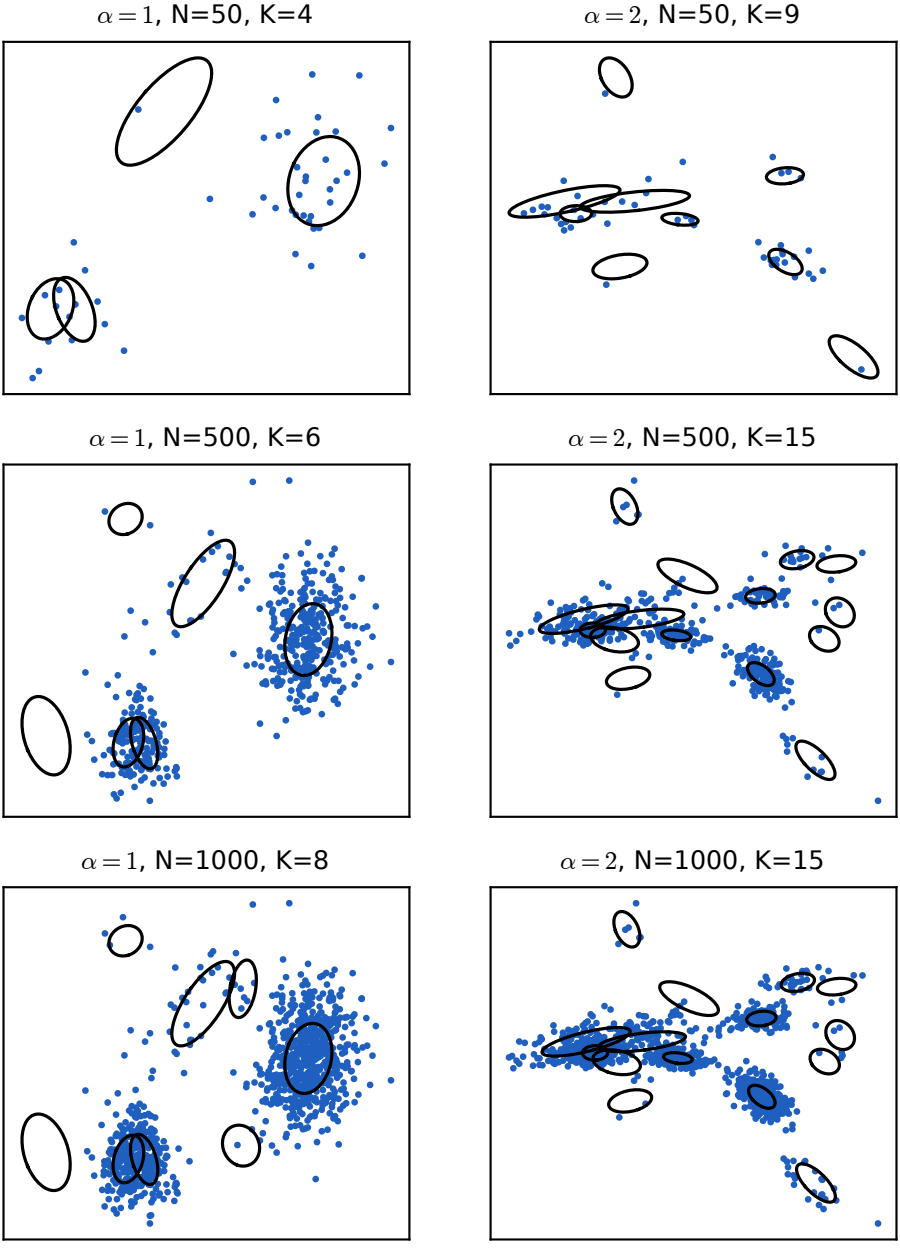

$\alpha = 1$, N=50, K=4
$\alpha = 2$, N=50, K=9
$\alpha = 1$, N=500, K=6
$\alpha = 2$, N=500, K=15
$\alpha = 1$, N=1000, K=8
$\alpha = 2$, N=1000, K=15