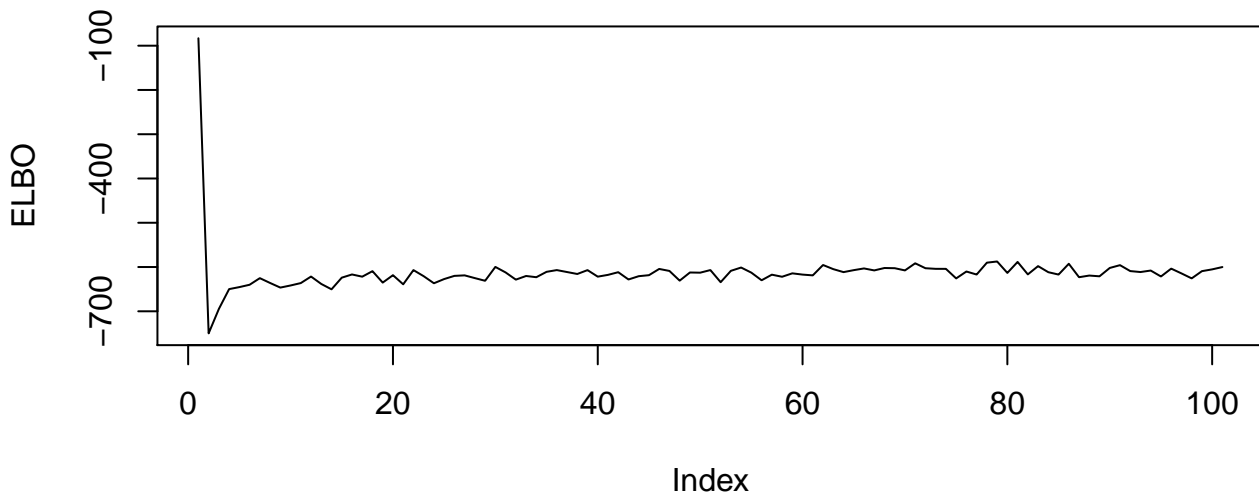
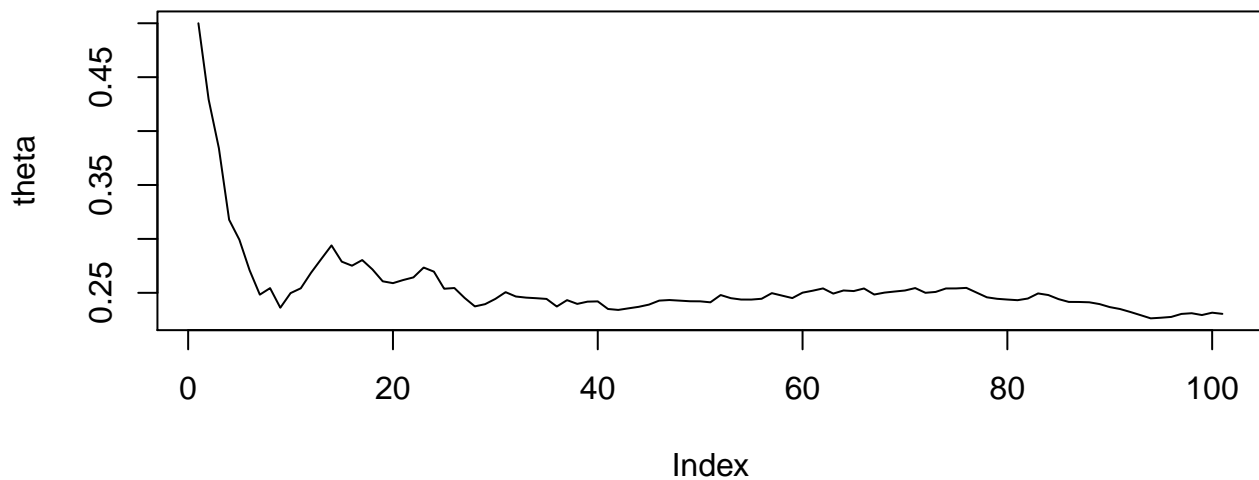
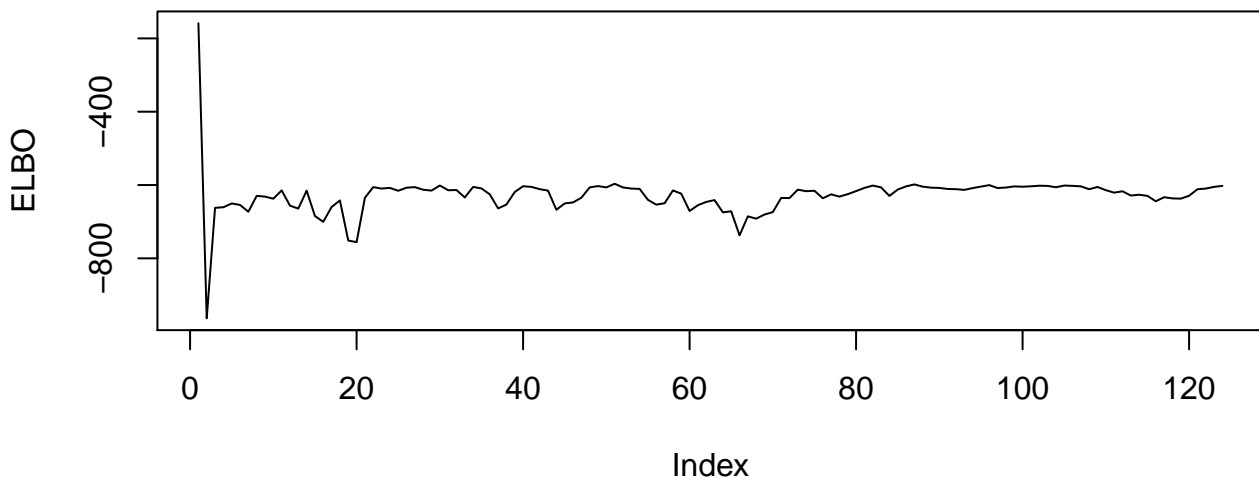
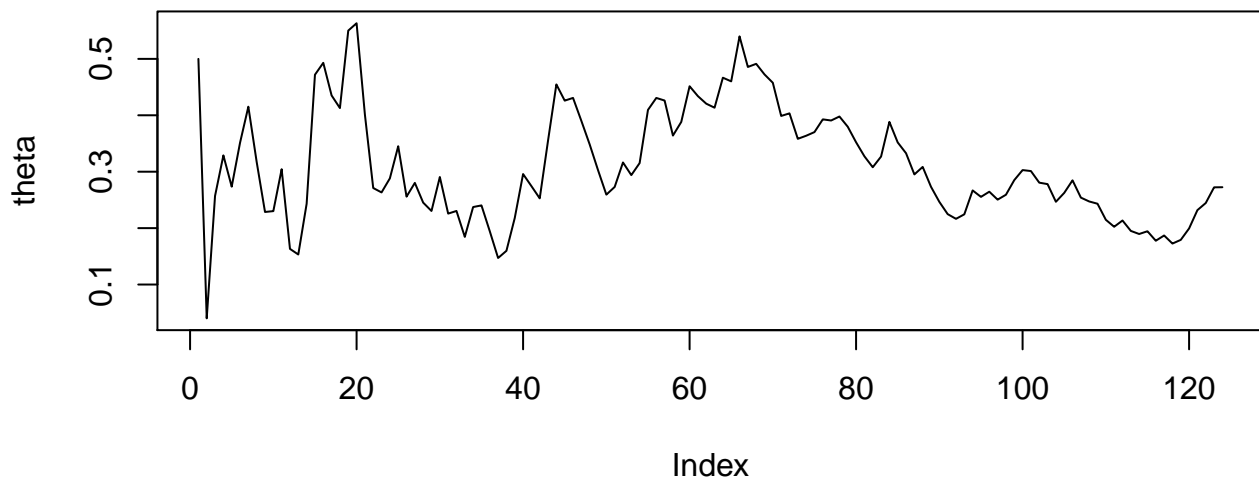


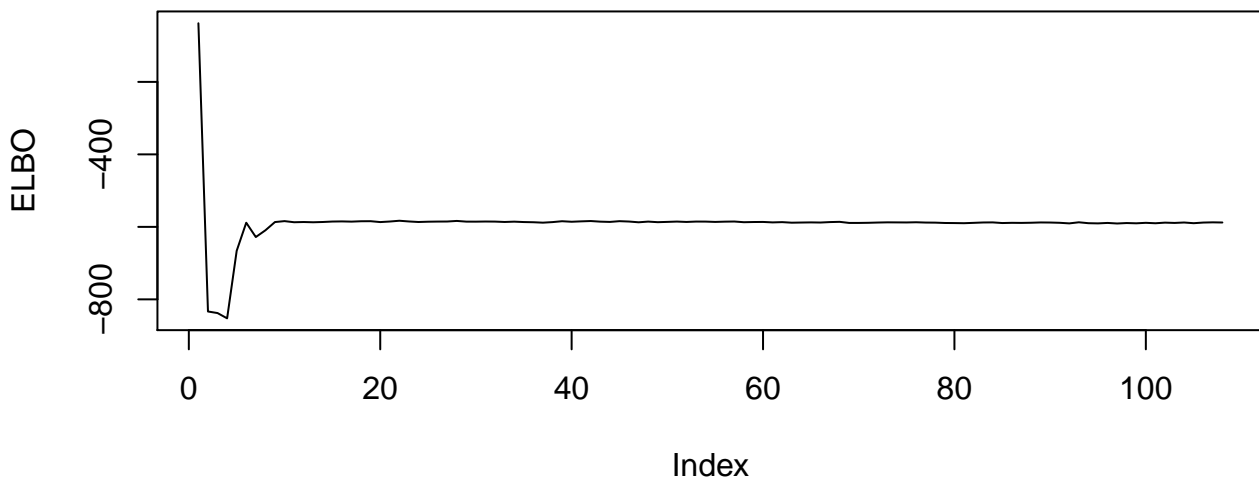
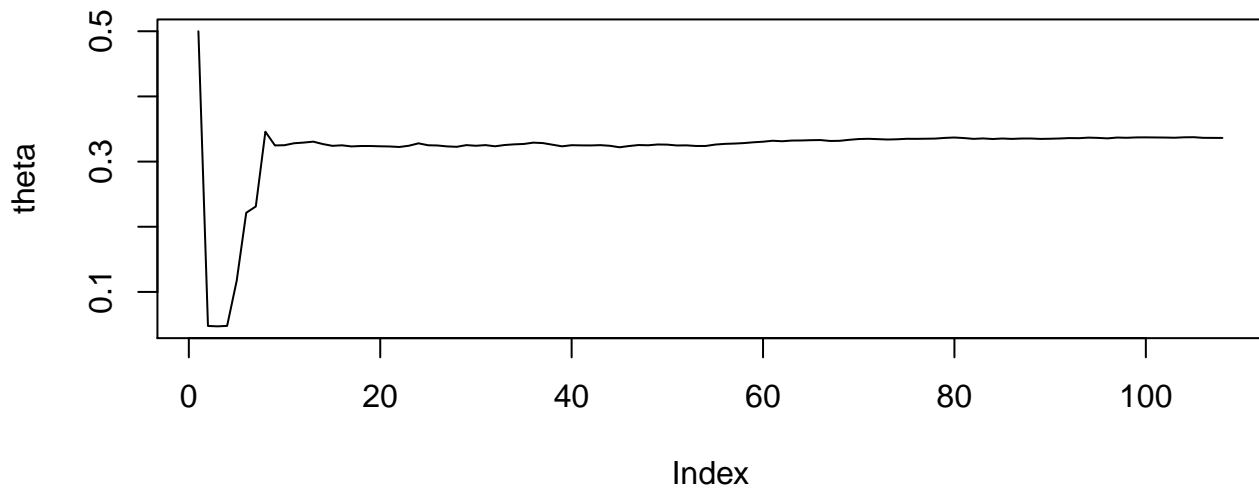
standardize VB (S=100, n=50)



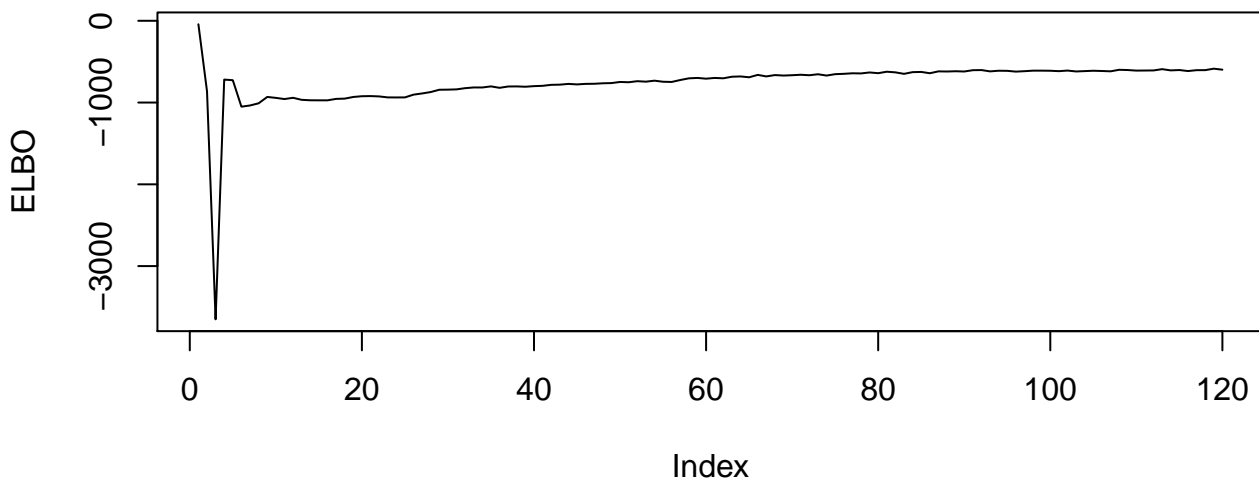
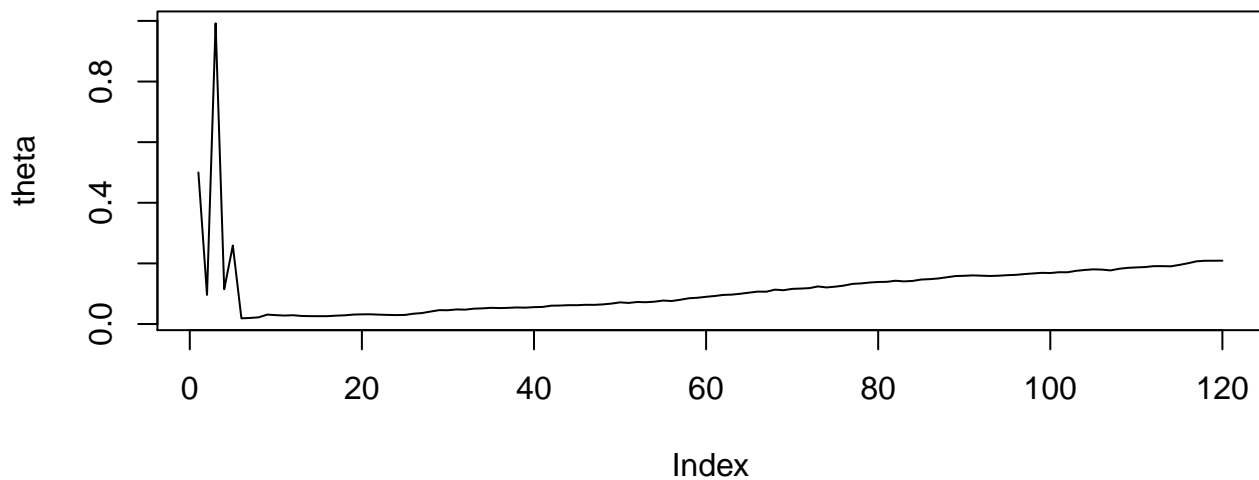
standardize VB (S=100, n=200)



natural gradient VB (S=10,n=50)

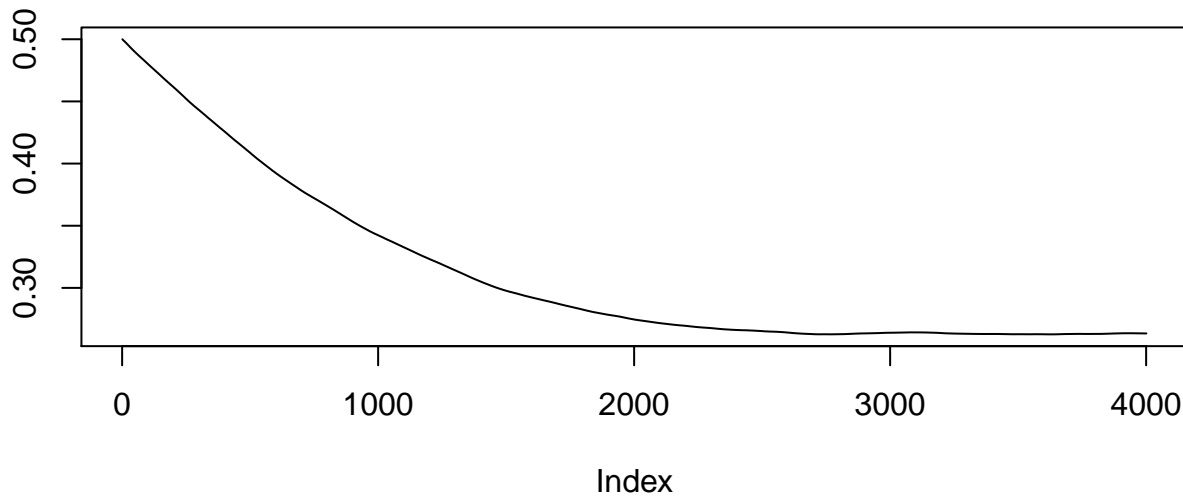


natural gradient VB (S=10,n=200)

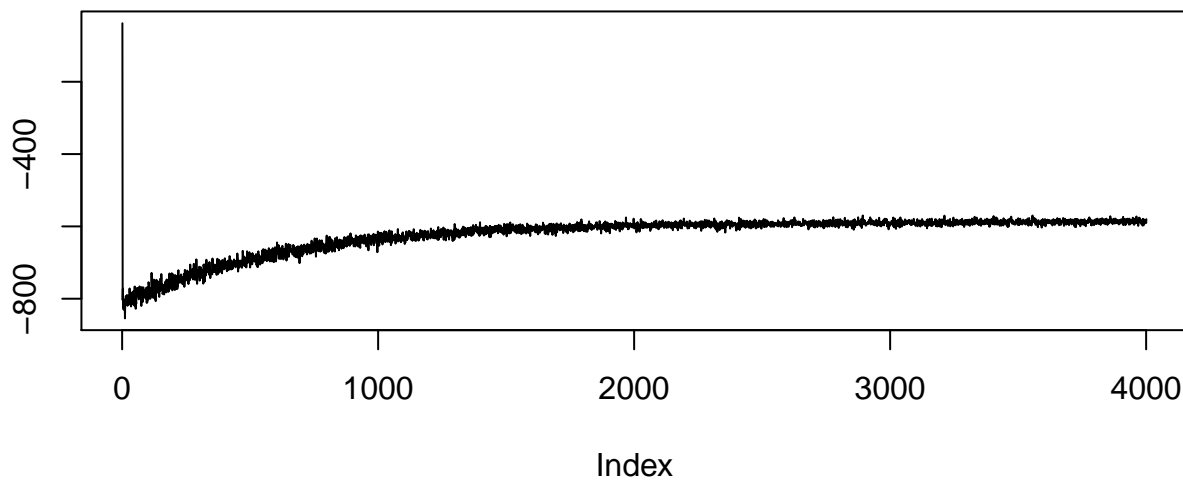


reparameterizaiton trick+ ADAM (n=50, S=1)

sigmoid(repar.n50.adam\$mu.trace)

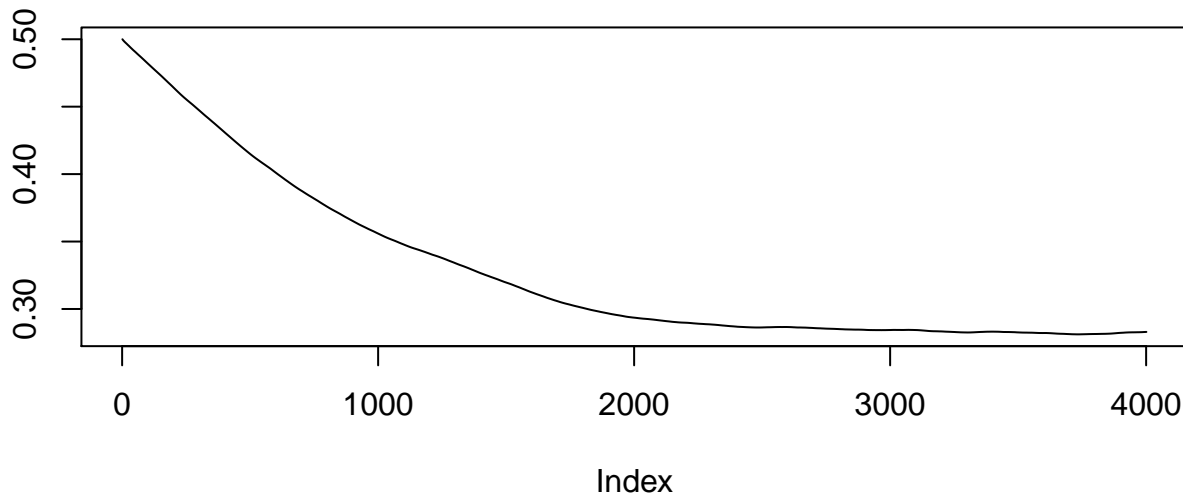


repar.n50.adam\$elbo.trace

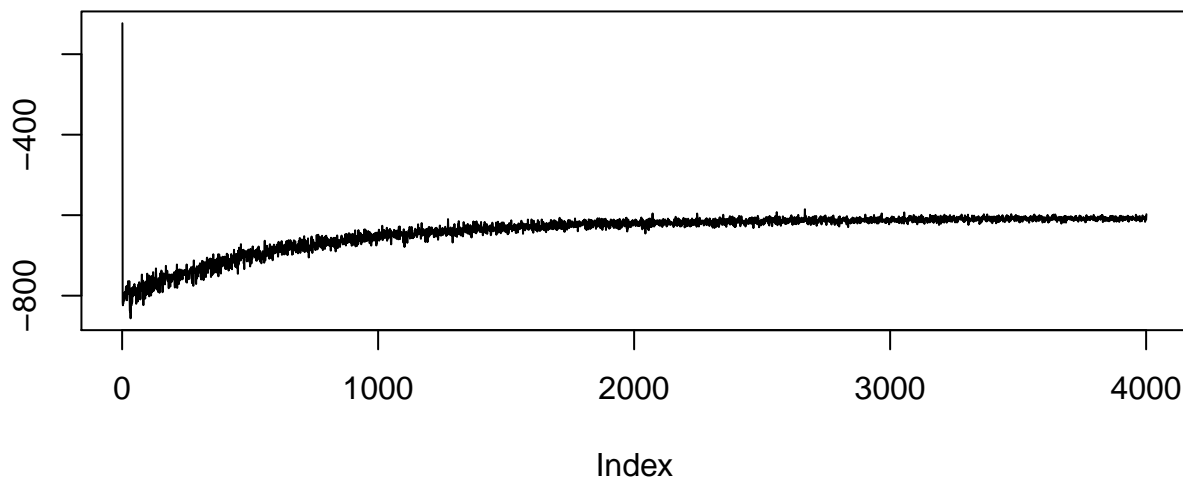


reparameterizaiton trick+ ADAM (n=50, S=1)

sigmoid(repar.n200.adam\$mu.trace)

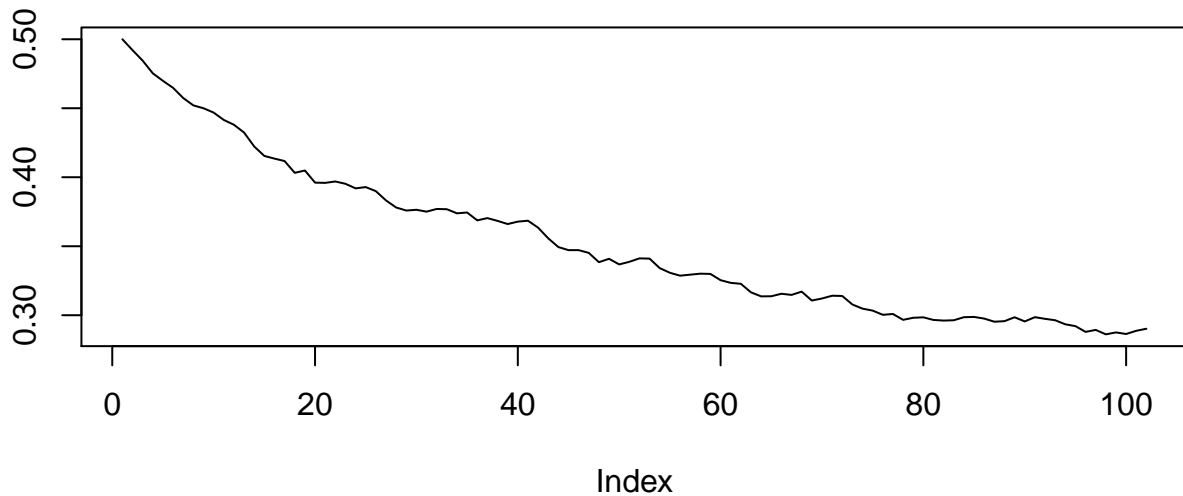


repar.n200.adam\$elbo.trace

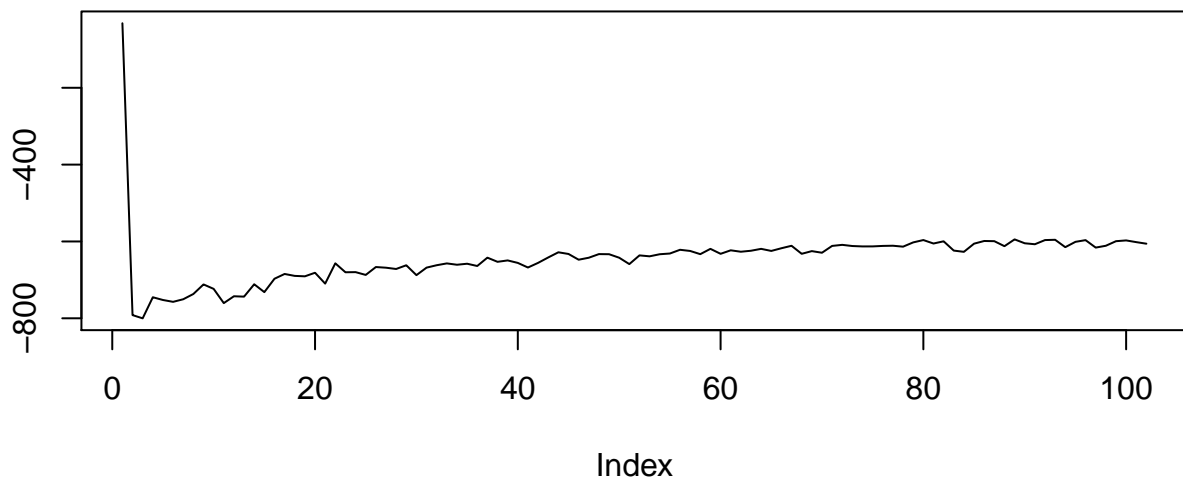


reparameterization trick + ADADELTA (n=50, S=1)

sigmoid(repar.n50.adadelta\$mu.trace)

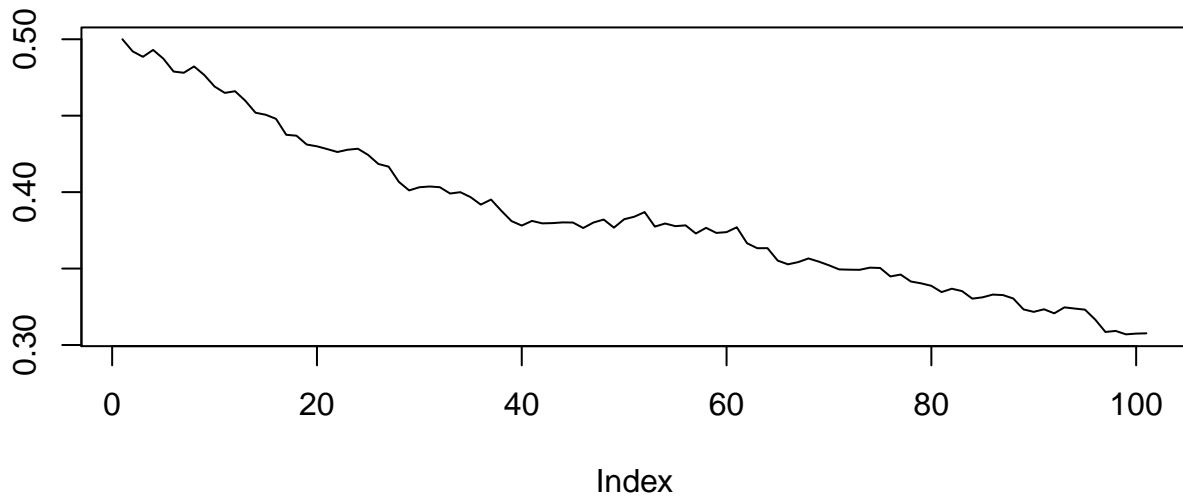


repar.n50.adadelta\$elbo.trace

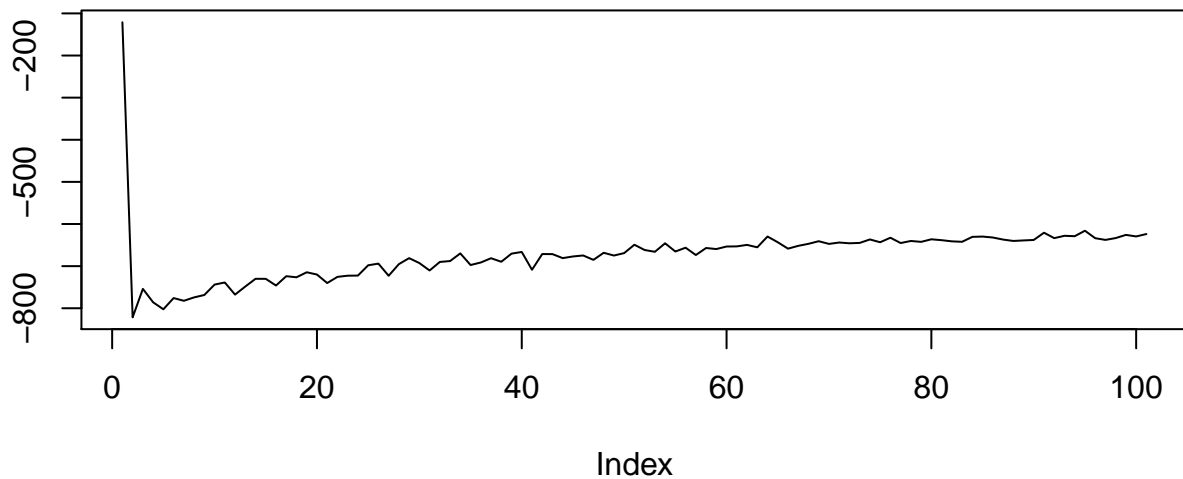


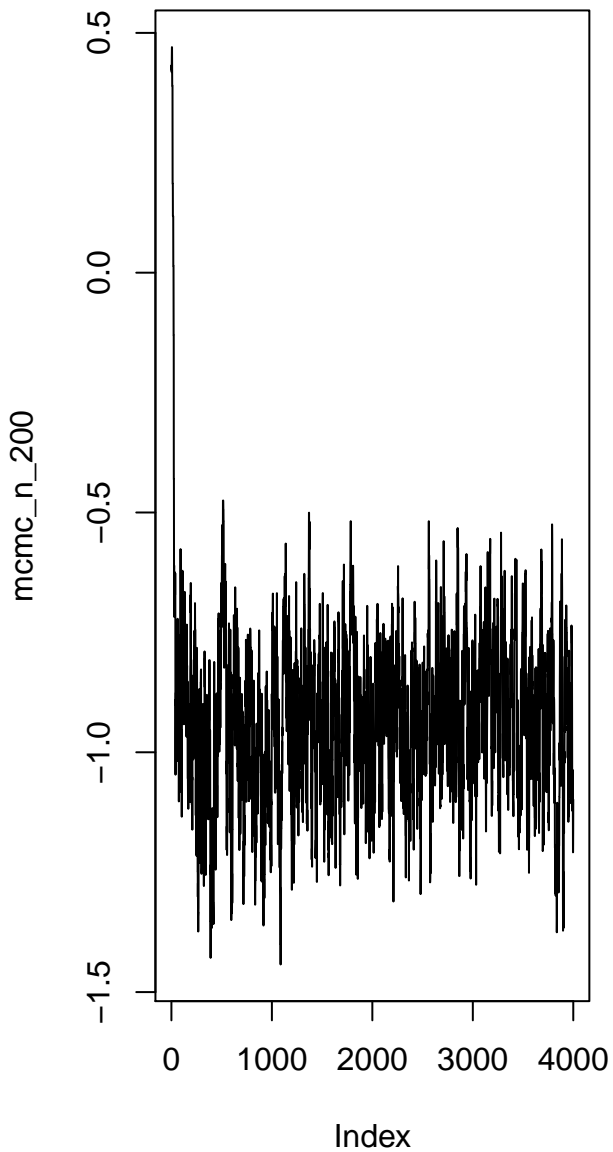
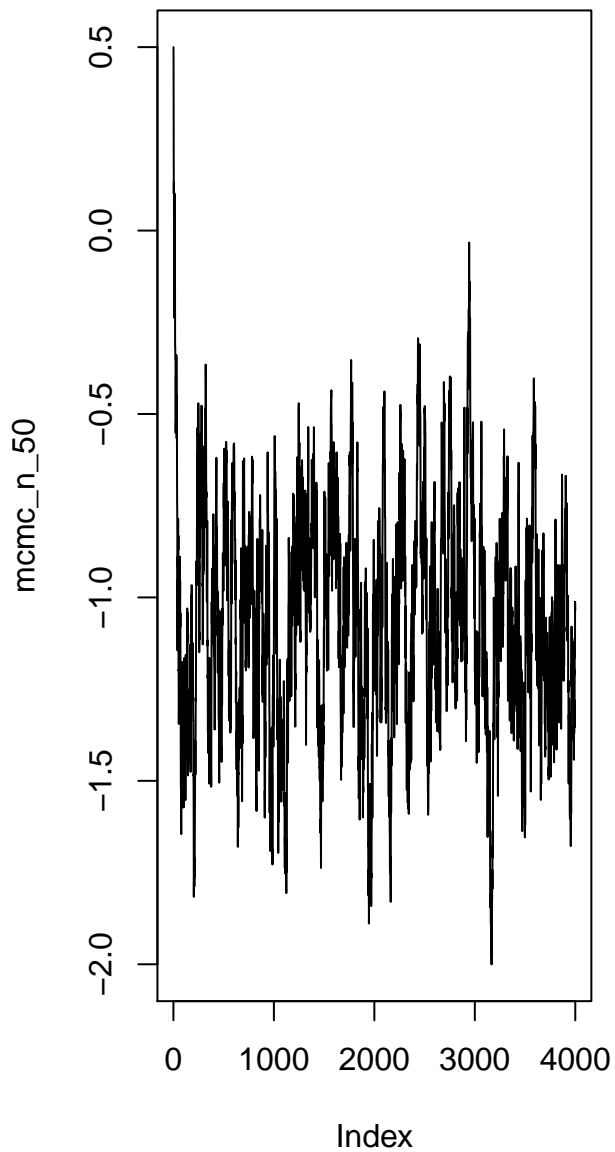
reparameterization trick + ADADELTA (n=200, S=1)

sigmoid(repar.n200.adadelta\$mu.trace)

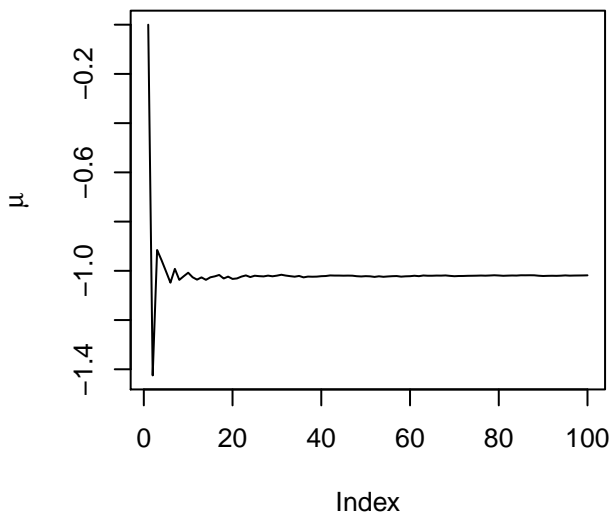


repar.n200.adadelta\$elbo.trace

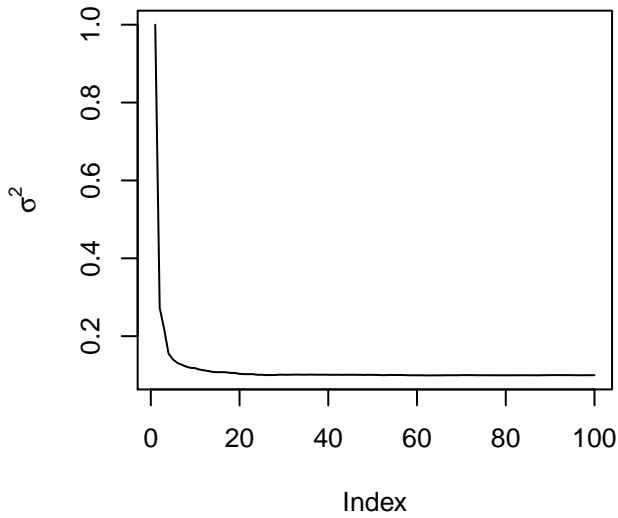




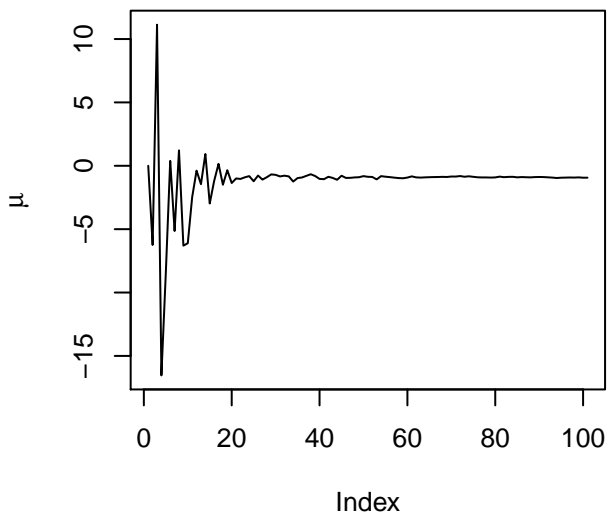
reparameterization VB, trace plot of mu (n=



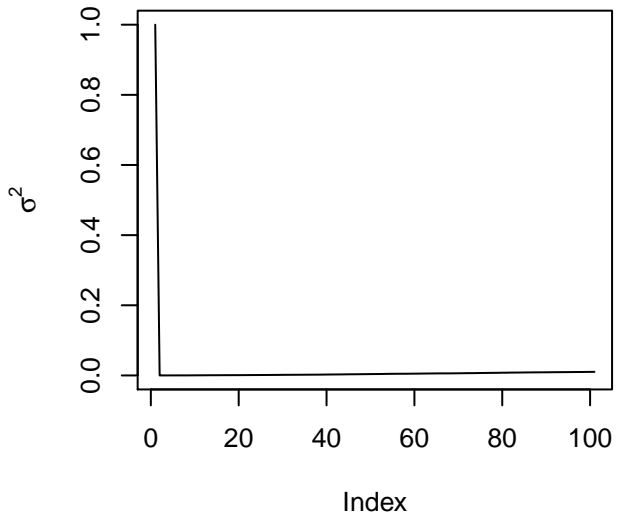
trace plot of sigma^2 (n=50)



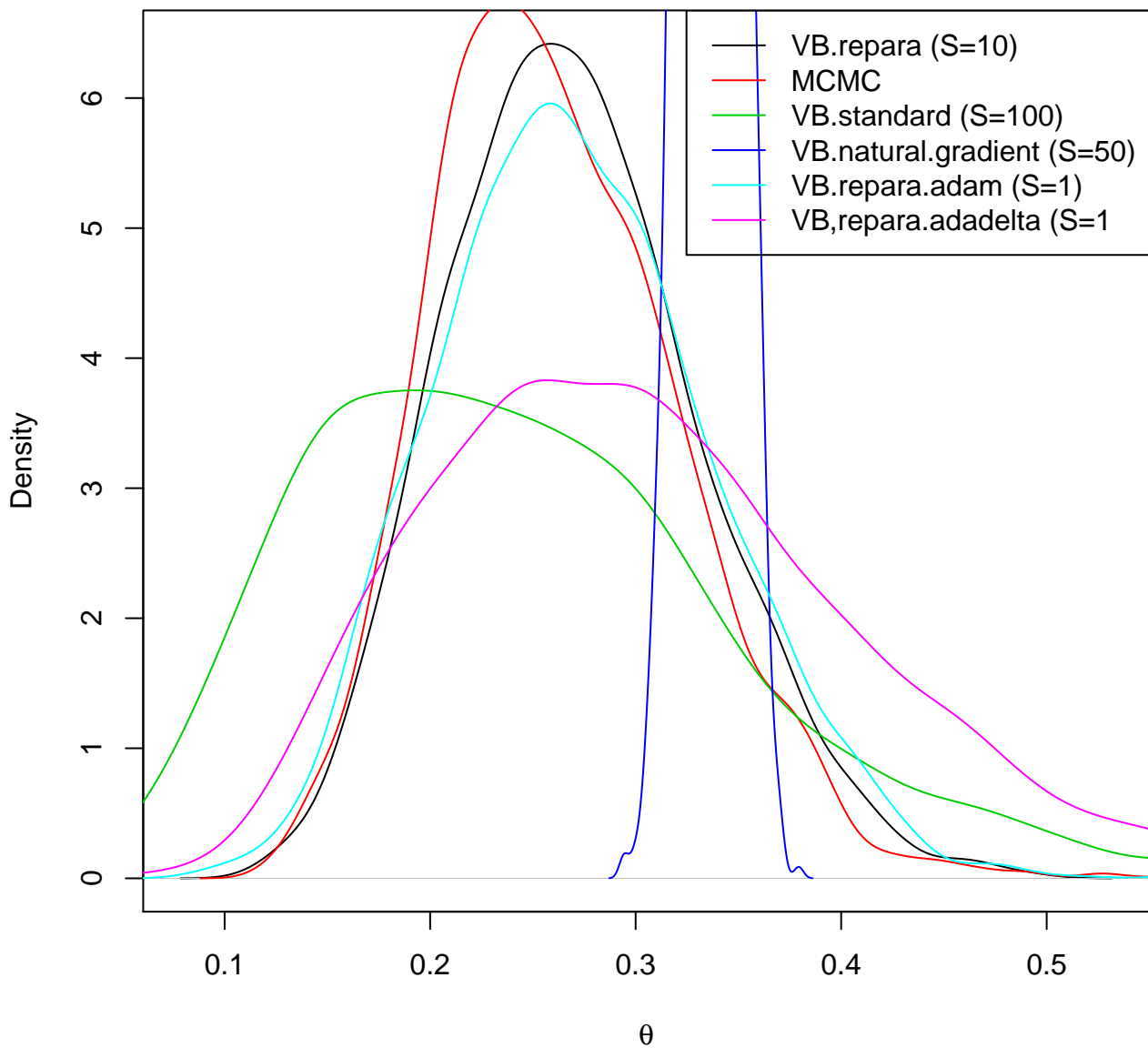
trace plot of mu (n=200)



trace plot of sigma^2 (n=200)



n=50



n=200

