gamma_oc for FM system
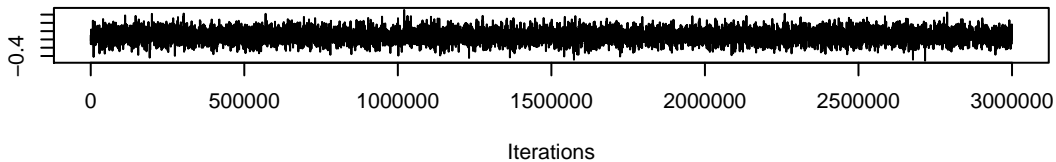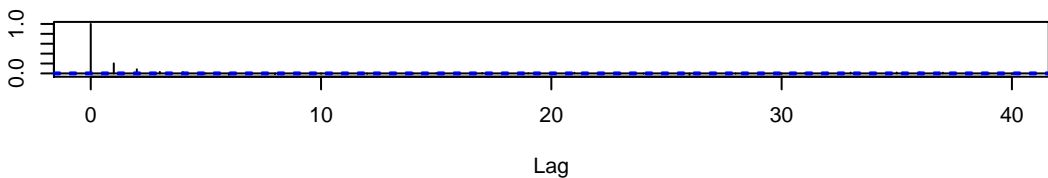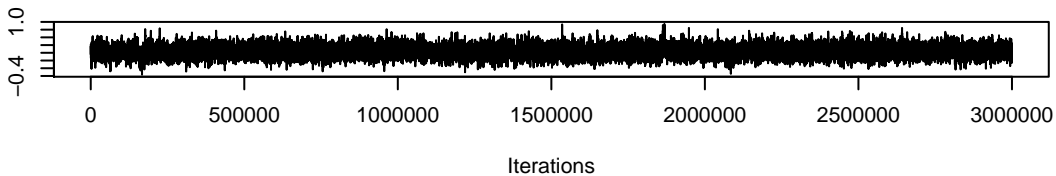
gamma_oc for CF system