$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $N_{\text{ages}} = 1$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, $\rho = 100.0$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\beta_{\text{scaling}} = 1.0$, $\text{age}_{\text{mixing}} = 1.0$, $\text{algo} = 1$