$$N_{\rm tot} = 580K$$
, $N_{\rm init} = 100$, $N_{\rm ages} = 1$, $\mu = 40.0$, $\beta = 0.01$, $\sigma_{\beta} = 0.0$, $\rho = 100.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, $\epsilon_{\rho} = 0.01$, $\beta_{\rm scaling} = 1.0$, $\alpha_{\rm gemixing} = 1.0$, $\alpha_{\rm gemixing} = 1.0$

