$N_{\mathrm{tot}} = 580K$, $\rho = 0.1$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, $\mathrm{algo} = 2$, $N_{\mathrm{init}} = 100$
$\lambda_E = 1.0$, $\lambda_I = 1.0$, $\mathrm{rand.\,inf.} = True$, $\mathrm{v.} = 1.0$