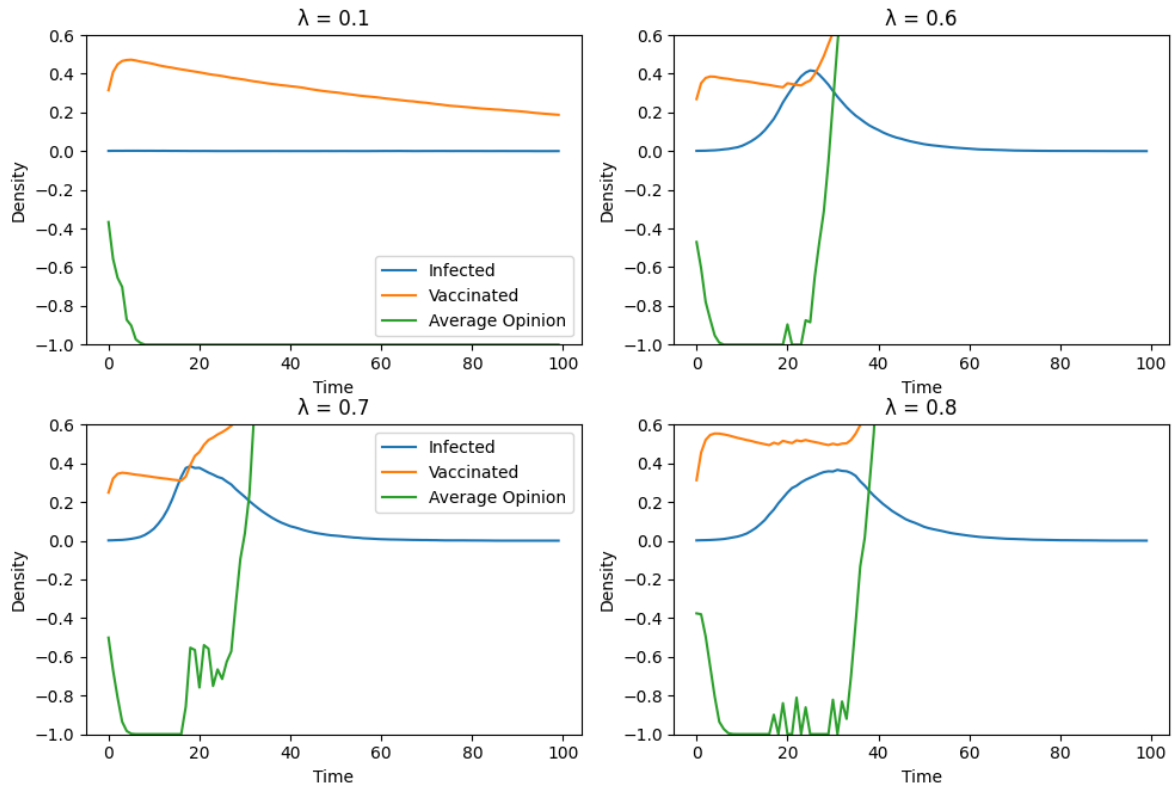


# Plots

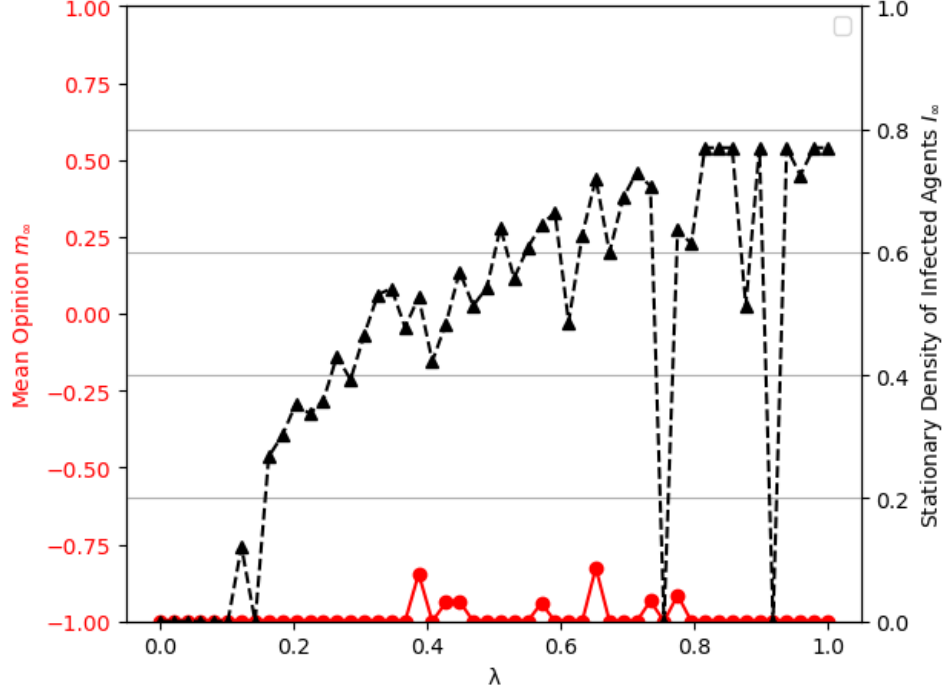
## Baseline Simulation

Tuning  $\lambda$  leads to different temporal evolutions for  $I(t)$ ,  $V(t)$  and  $m(t)$ . Each time series comes from a single Monte Carlo simulation (realization). Parameters used are  $D = 0.20$ ,  $w = 0.90$ ,  $\alpha = 0.1$ ,  $\varphi = 0.01$  and  $N = 10^4$ . (a)  $\lambda = 0.1$ . (b)  $\lambda = 0.1$ . (c)  $\lambda = 0.1$ . (d)  $\lambda = 0.6$ . (e)  $\lambda = 0.6$ . (f)  $\lambda = 0.6$ . (g)  $\lambda = 0.7$ . (h)  $\lambda = 0.7$ . (i)  $\lambda = 0.7$ . (j)  $\lambda = 0.8$ . (k)  $\lambda = 0.8$ . (l)  $\lambda = 0.8$ .

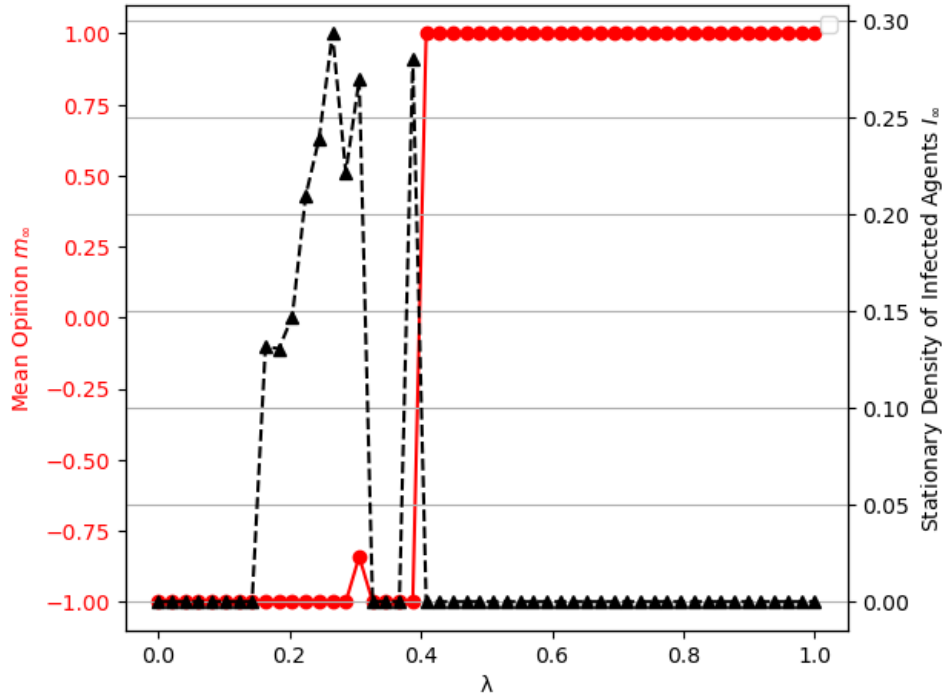


Stationary density of Infected agents  $I_\infty$  averaged only over surviving runs (left y-axis) and mean opinion  $m_\infty = \sum_{i=1}^N \frac{o_i}{N}$  (right y-axis) as a function of  $\lambda$  for  $w = 0.3$  (left) and  $w = 0.7$  (right). Parameters used are  $D = 0.1$ ,  $\varphi = 0.01$ ,  $\alpha = 0.1$  and  $N = 10^4$ . Data are averaged over 100 independent simulations. Acronyms: DF = Disease-Free, E = Endemic.

Stationary Density of Infected Agents  $I_\infty$  and Mean Opinion  $m_\infty$  as a Function of  $\lambda$  ( $w = 0.3$ )

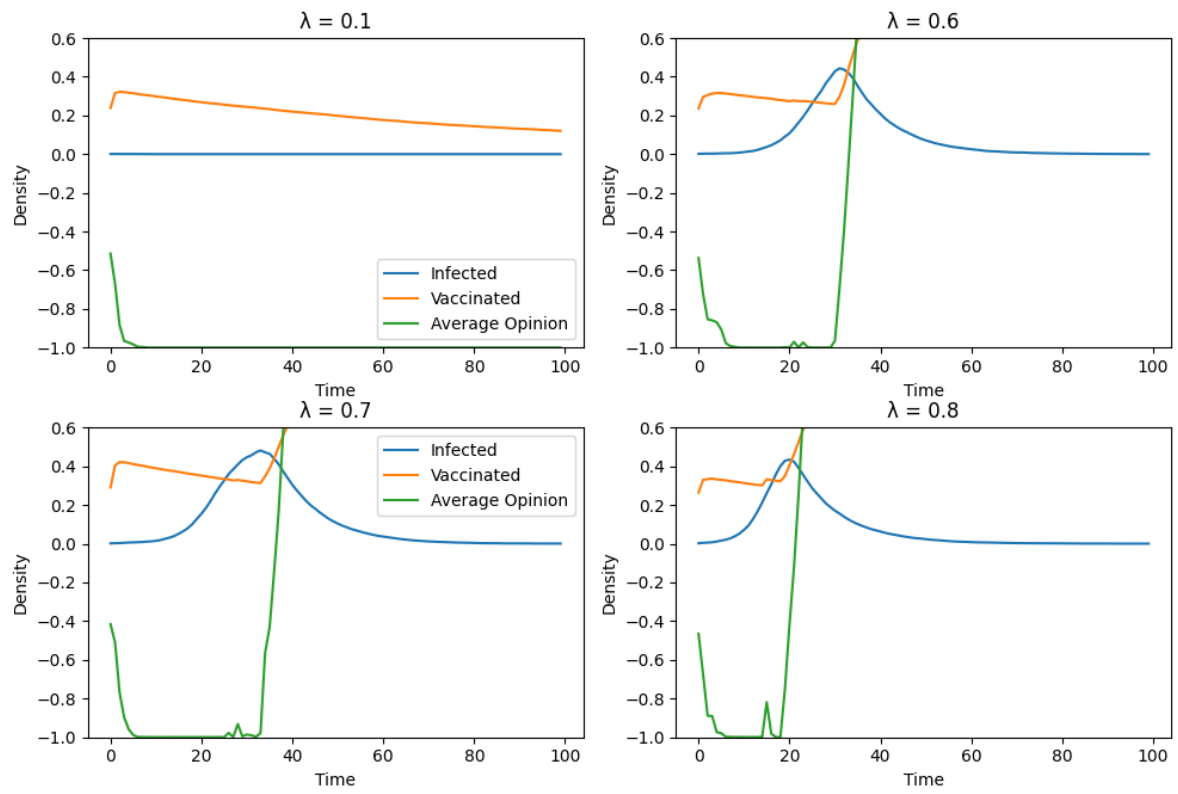


Stationary Density of Infected Agents  $I_\infty$  and Mean Opinion  $m_\infty$  as a Function of  $\lambda$  ( $w = 0.7$ )

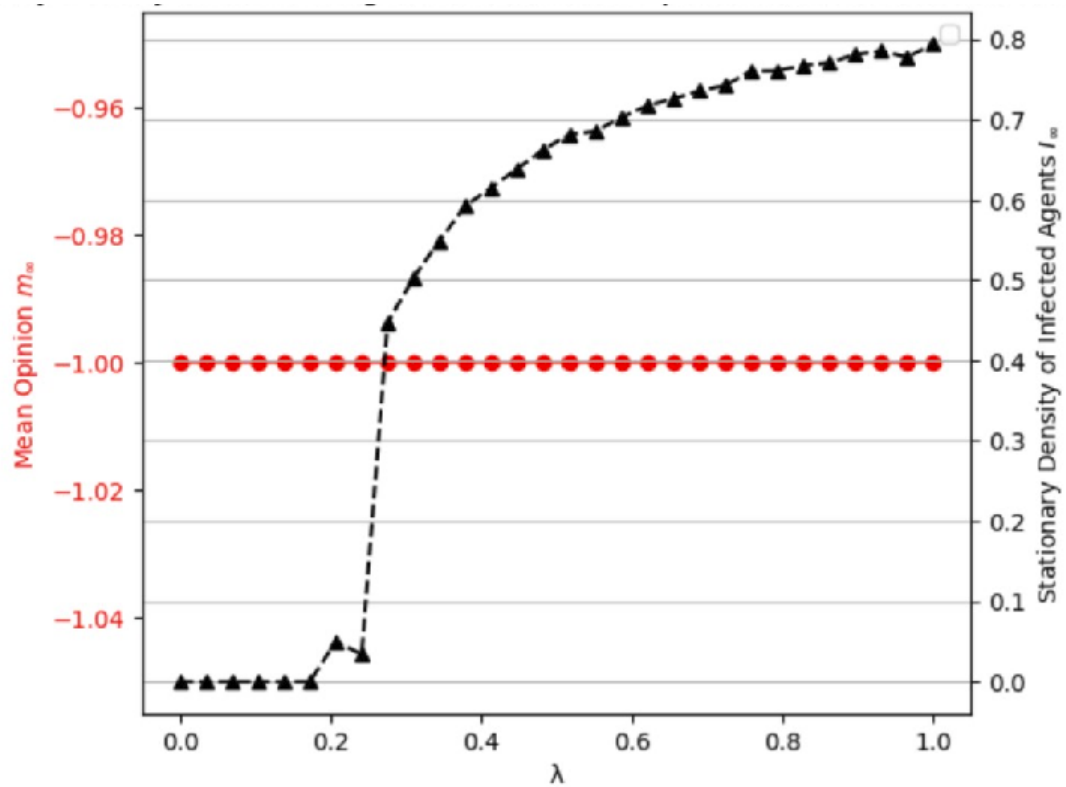


## Erdos-Renyi Simulation

Tuning  $\lambda$  leads to different temporal evolutions for  $I(t)$ ,  $V(t)$  and  $m(t)$ . Each time series comes from a single Monte Carlo simulation (realization). Parameters used are  $D = 0.20$ ,  $w = 0.90$ ,  $\alpha = 0.1$ ,  $\varphi = 0.01$  and  $N = 10^4$ . (a)  $\lambda = 0.1$ . (b)  $\lambda = 0.1$ . (c)  $\lambda = 0.1$ . (d)  $\lambda = 0.6$ . (e)  $\lambda = 0.6$ . (f)  $\lambda = 0.6$ . (g)  $\lambda = 0.7$ . (h)  $\lambda = 0.7$ . (i)  $\lambda = 0.7$ . (j)  $\lambda = 0.8$ . (k)  $\lambda = 0.8$ . (l)  $\lambda = 0.8$ .



parameters are  $\epsilon = 1$ ,  $w = 0.8$  and  $\alpha = 0.1$  and  $\phi = 0.01$



## Figures

parameters are  $\epsilon=1, w=0.8$  and  $\alpha=0.1$  and  $\phi=0.01$ .

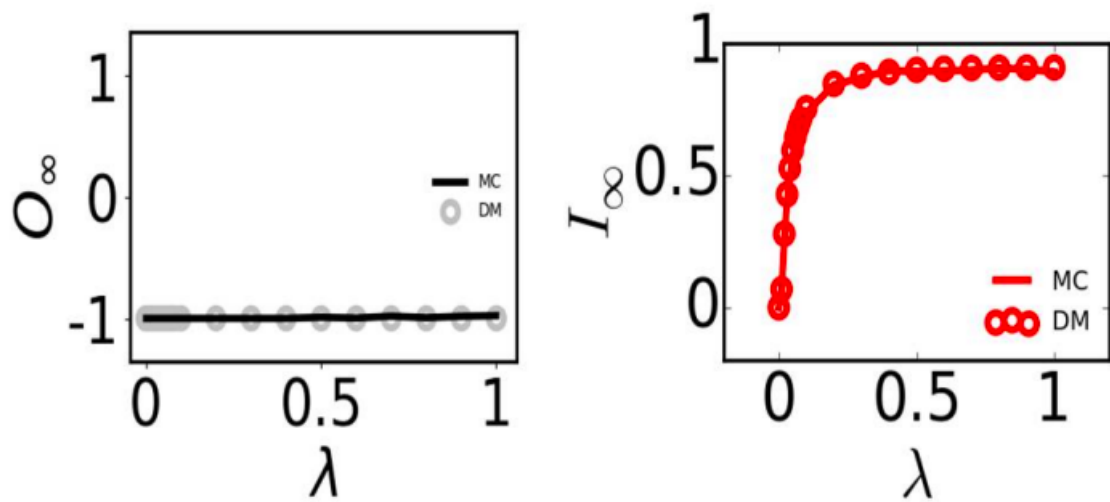


Figure: Opinion and Infection varying with  $\lambda$ .

MC: stochastic monte carlo.

DM: discrete model