## Vaccination p=0.0001 0.7 $\beta = 0.003$ $\beta = 0.03$ 0.6 $\beta$ =0.3 Fraction of infected original 0.5 vaccination 0.4 0.3 0.2 0.1 0.0 $10^{-1}$ 10<sup>0</sup> $10^{-2}$ $\mu$ [day<sup>-1</sup>]