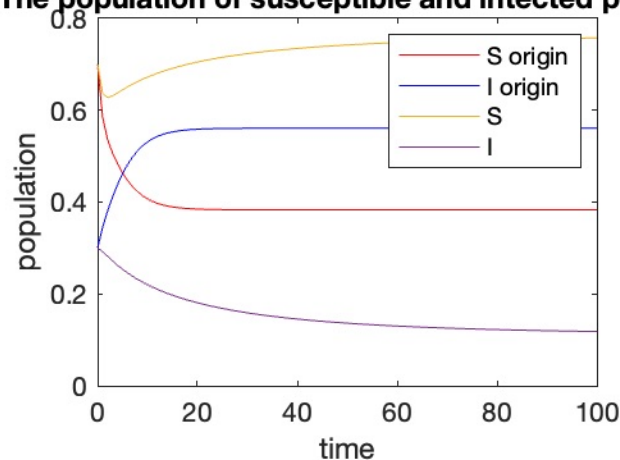
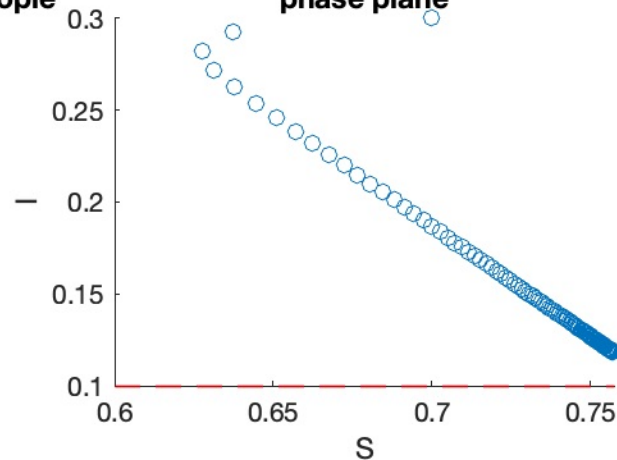


$lc = 0.1$

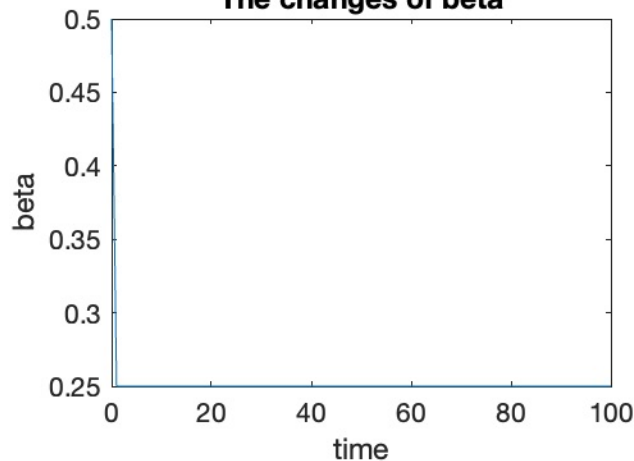
The population of susceptible and infected people



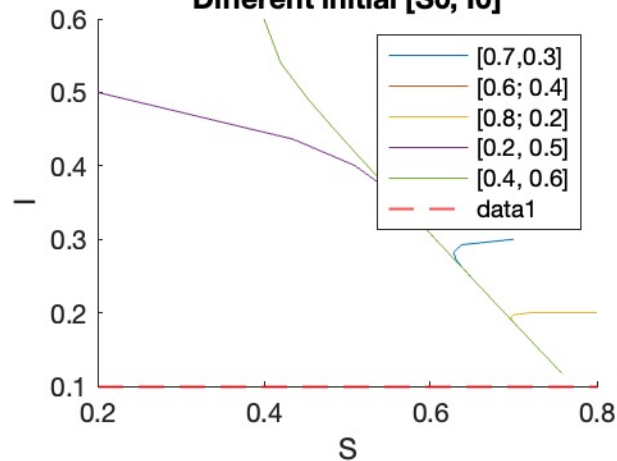
phase plane



The changes of beta

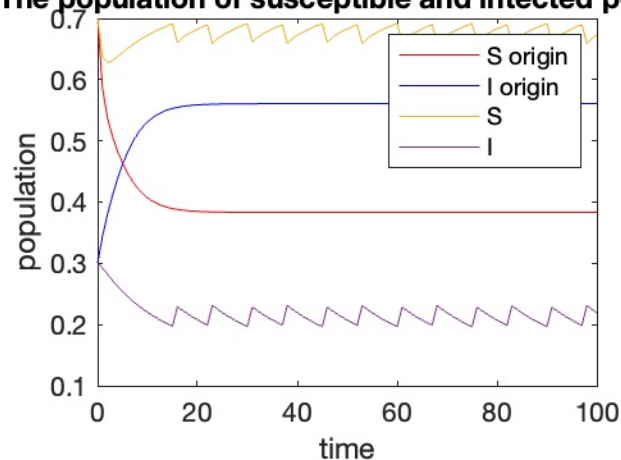


Different initial $[S_0, I_0]$

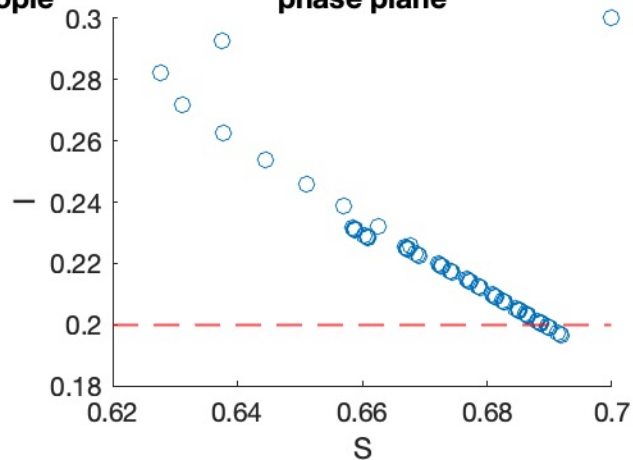


$lc = 0.2$

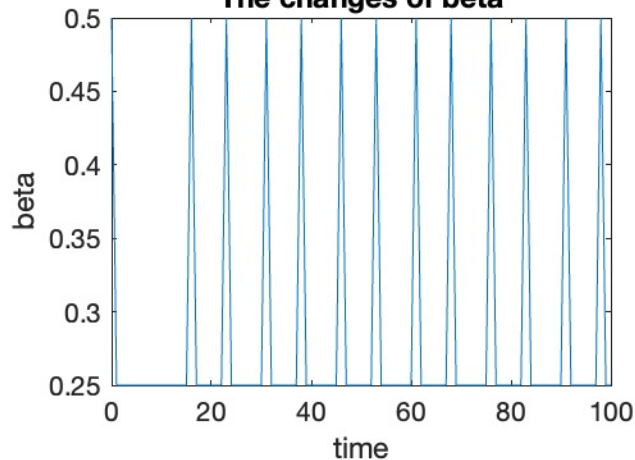
The population of susceptible and infected people



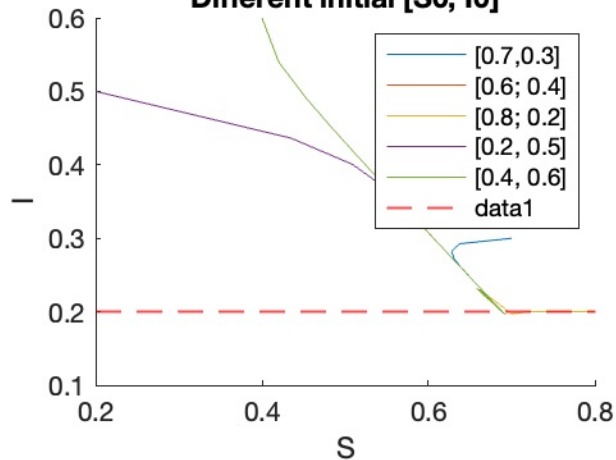
phase plane



The changes of beta

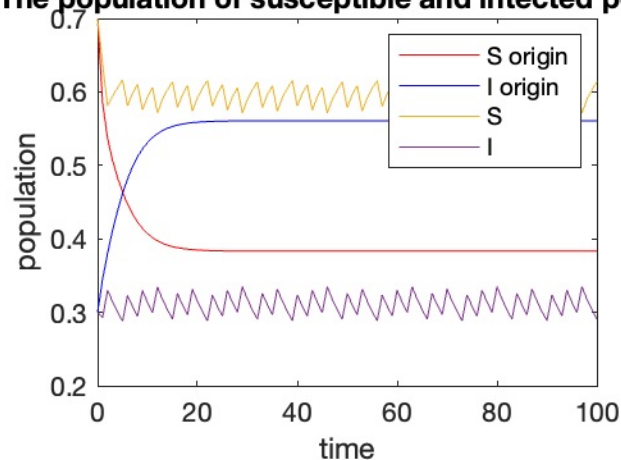


Different initial $[S_0, I_0]$

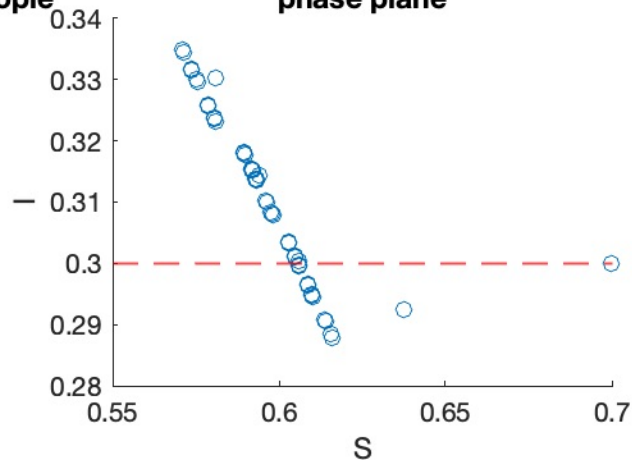


$lc = 0.3$

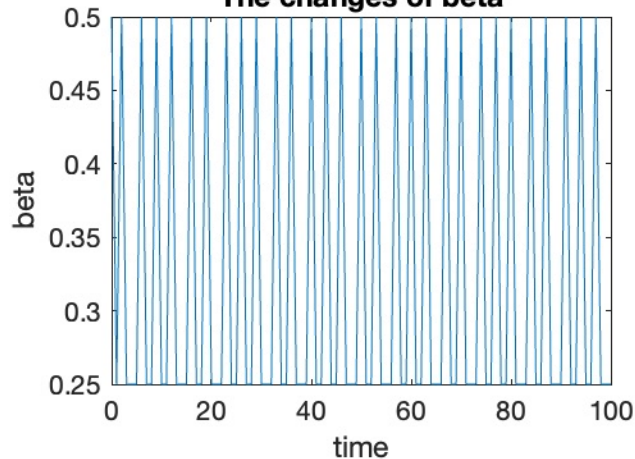
The population of susceptible and infected people



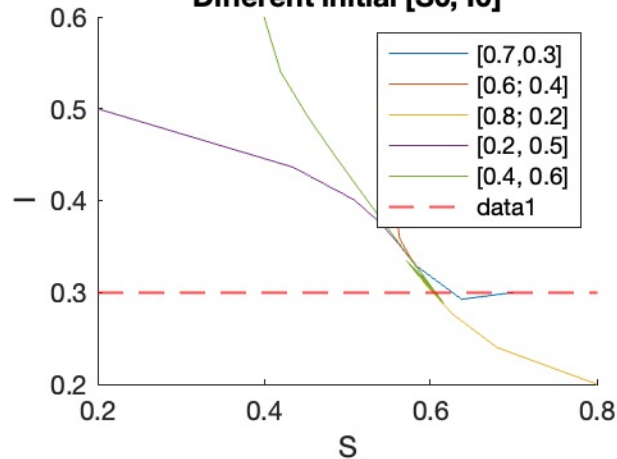
phase plane



The changes of beta

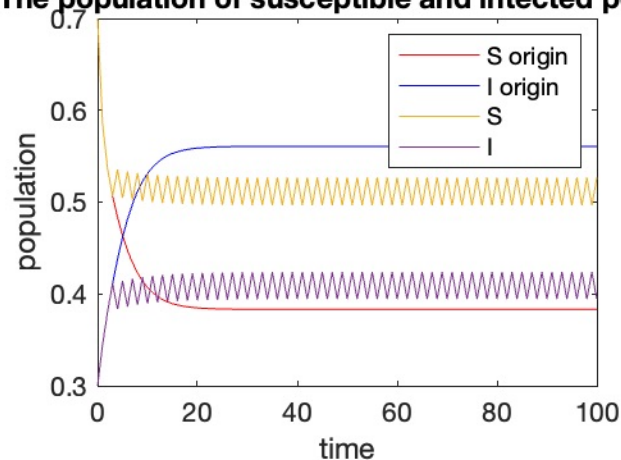


Different initial $[S_0, I_0]$

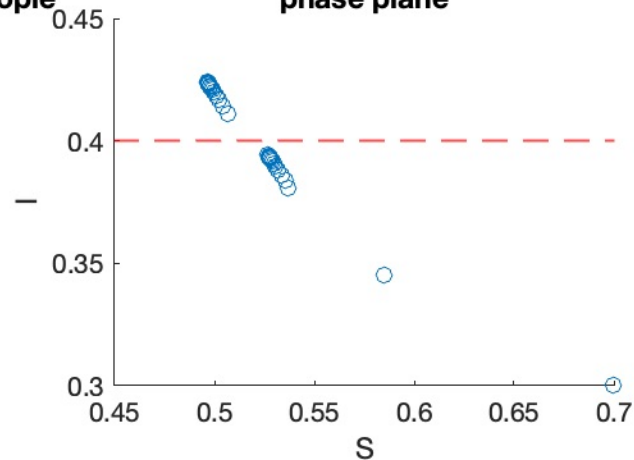


$I_c = 0.4$

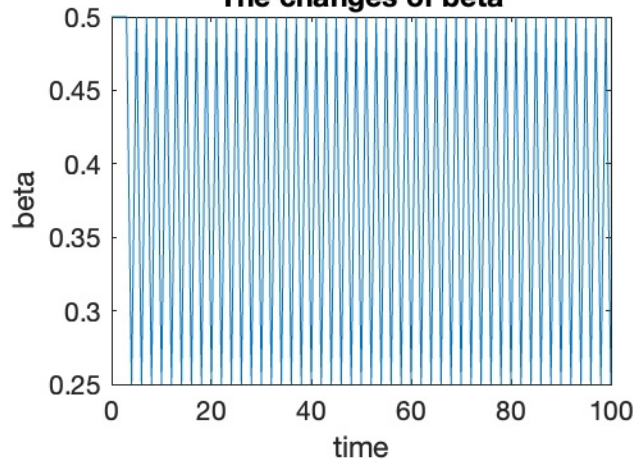
The population of susceptible and infected people



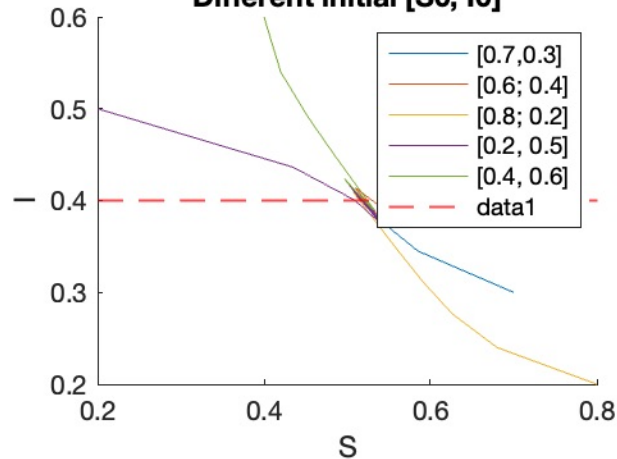
phase plane



The changes of beta

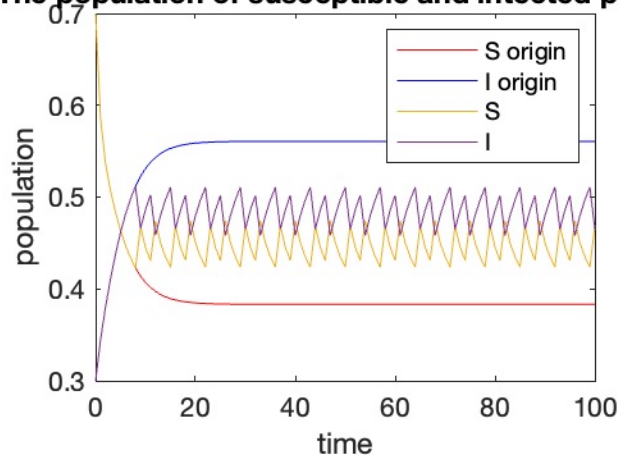


Different initial $[S_0, I_0]$

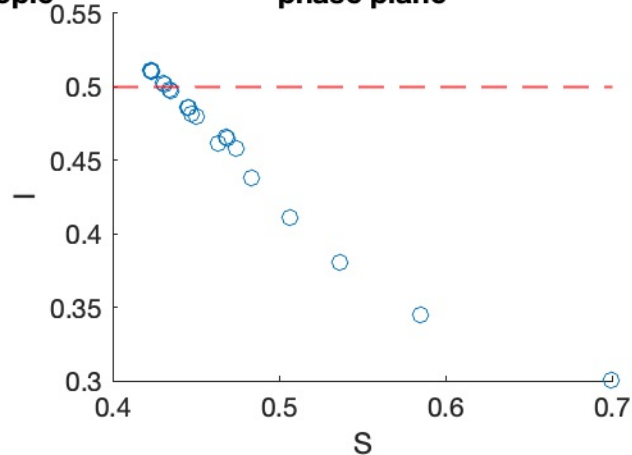


$lc = 0.5$

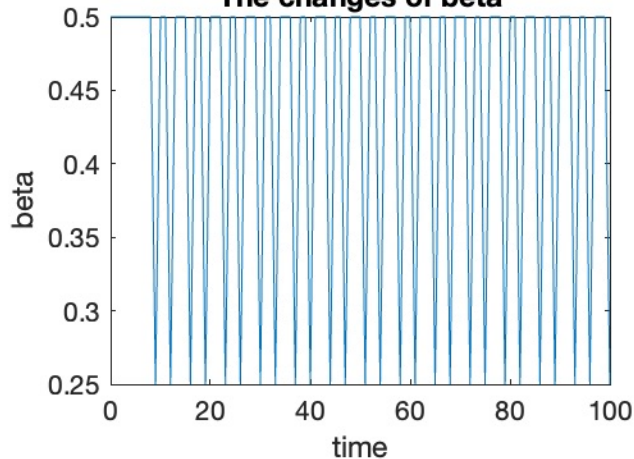
The population of susceptible and infected people



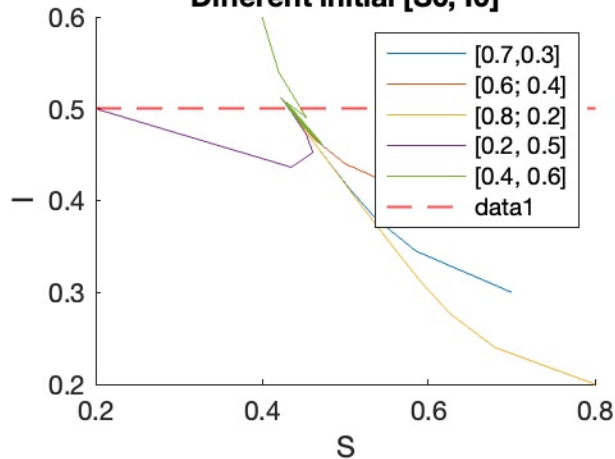
phase plane



The changes of beta

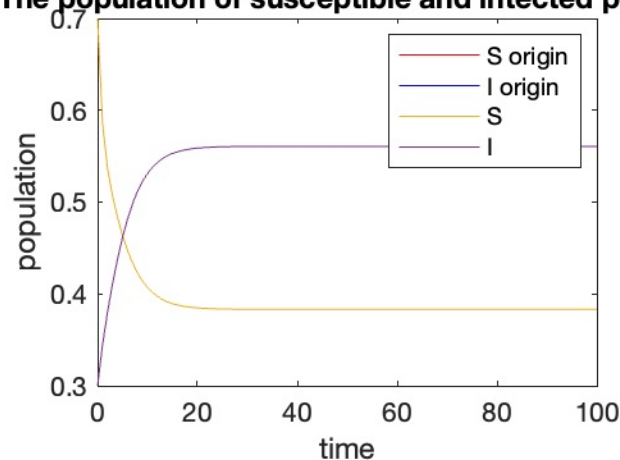


Different initial $[S_0, I_0]$

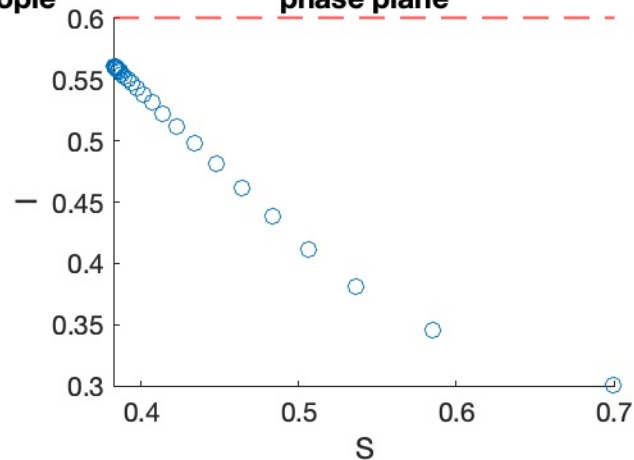


$lc = 0.6$

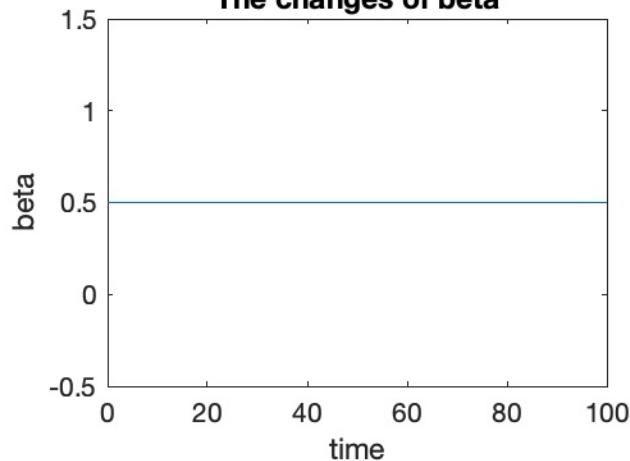
The population of susceptible and infected people



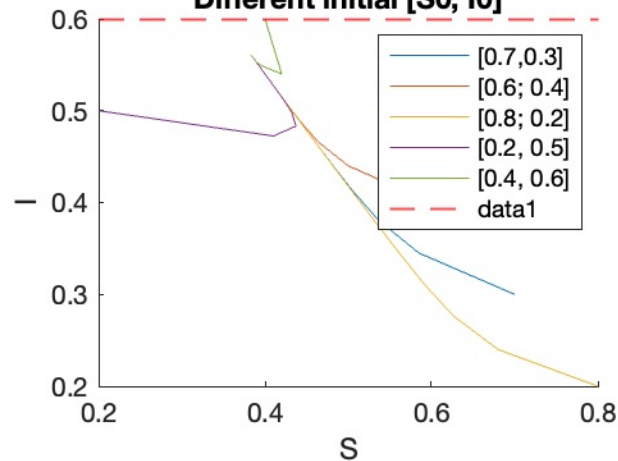
phase plane



The changes of beta

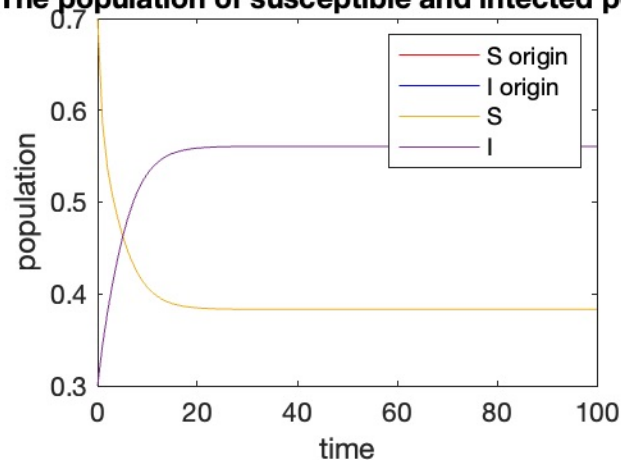


Different initial $[S_0, I_0]$

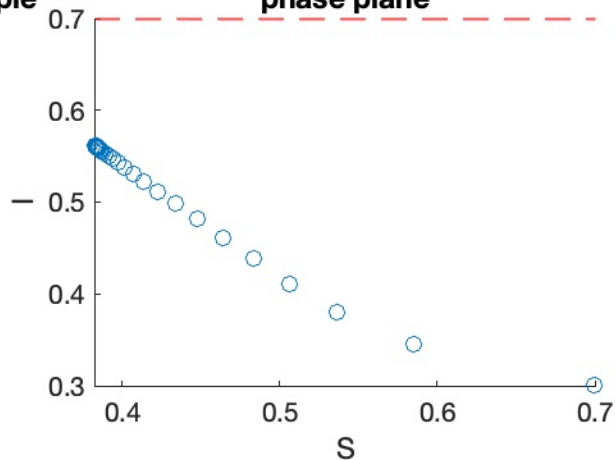


$lc = 0.7$

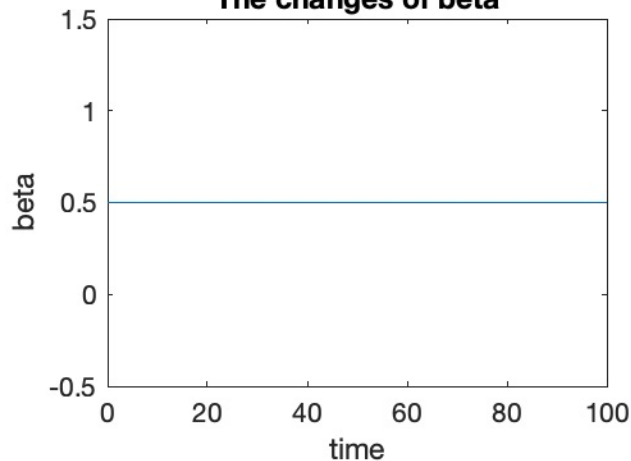
The population of susceptible and infected people



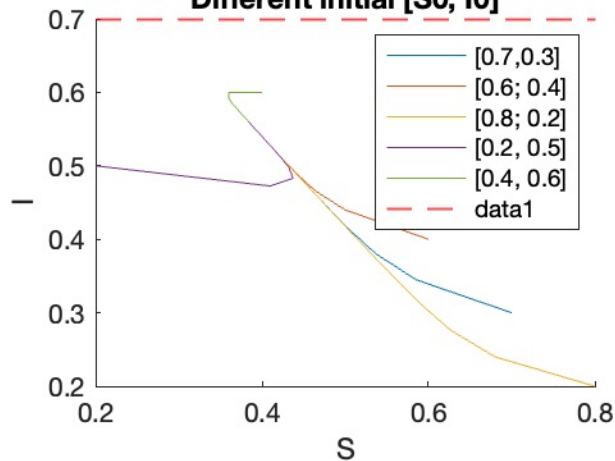
phase plane



The changes of beta

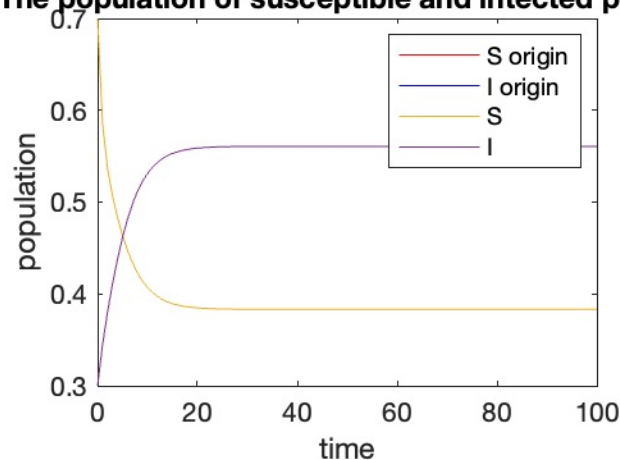


Different initial $[S_0, I_0]$

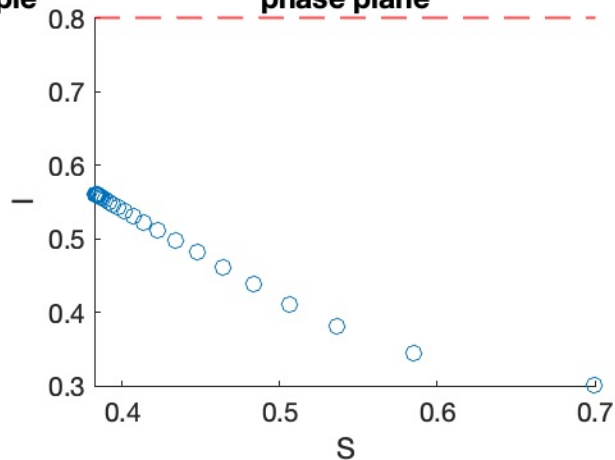


$lc = 0.8$

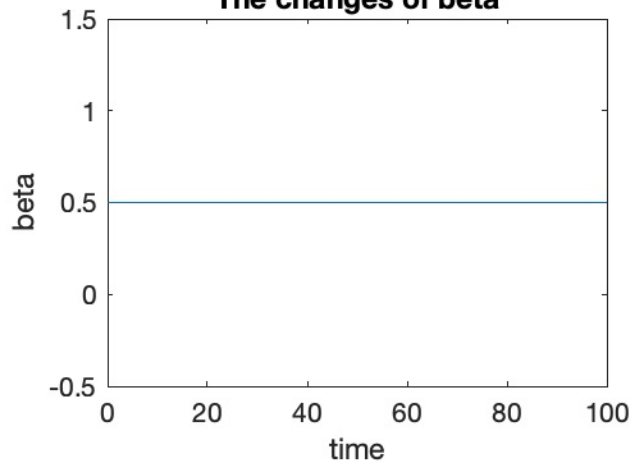
The population of susceptible and infected people



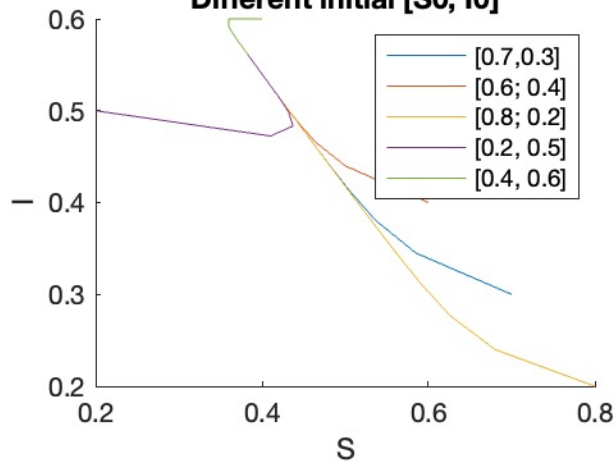
phase plane



The changes of beta

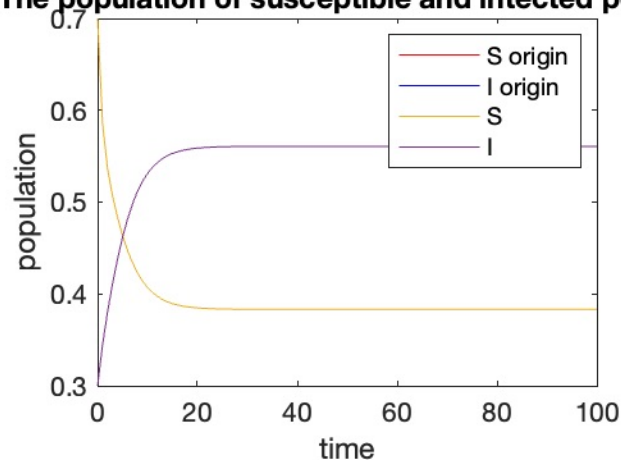


Different initial $[S_0, I_0]$

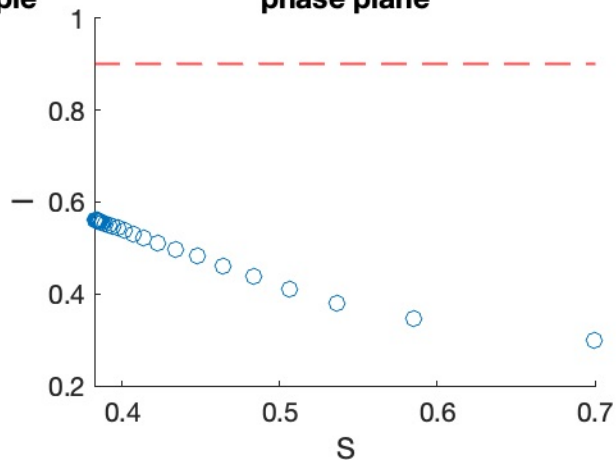


$lc = 0.9$

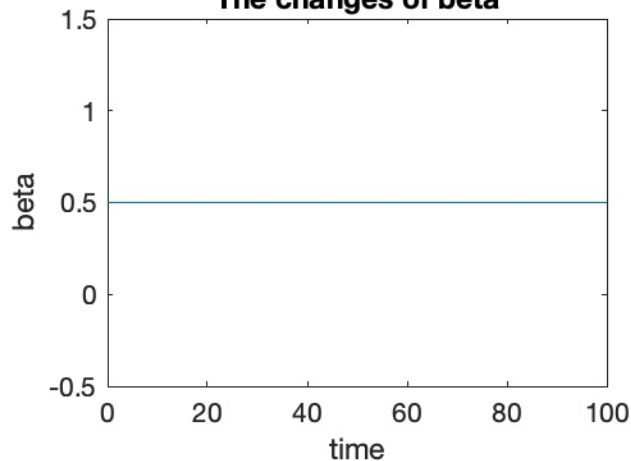
The population of susceptible and infected people



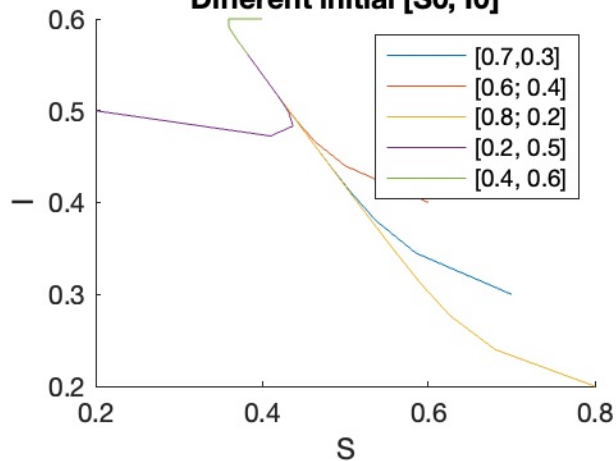
phase plane



The changes of beta

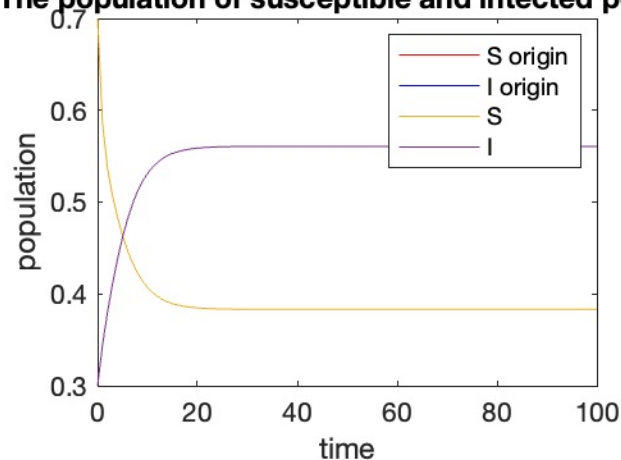


Different initial $[S_0, I_0]$

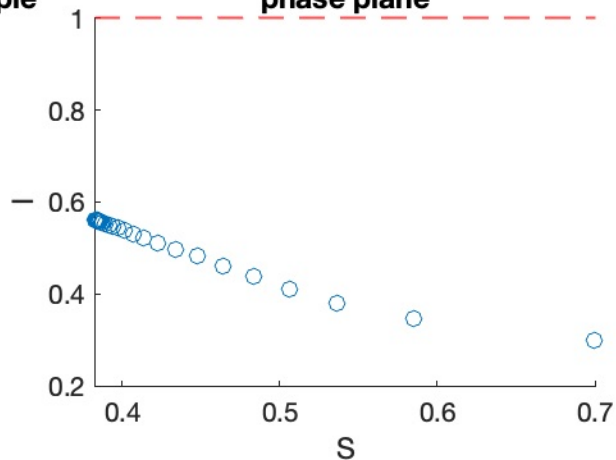


$lc = 1$

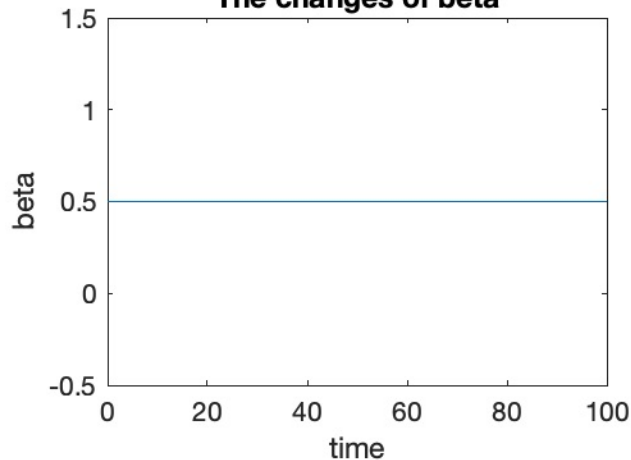
The population of susceptible and infected people



phase plane



The changes of beta



Different initial $[S_0, I_0]$

