average number of infecteds versus time p1 =0.00 , p2 =0.00, β = 0.3 p1 =0.00 , p2 =0.10, β = 0.3 350 p1 = 0.00, p2 = 0.30, $\beta = 0.3$ p1 =0.00 , p2 =0.50, β = 0.3 p1 = 0.00, p2 = 0.70, $\beta = 0.3$ 300 --- p1 =0.00 , p2 =0.90, β = 0.3 - p1 =0.00 , p2 =1.00, β = 0.3 250 200 150 100 -50 0 20 40 60 80 120 100 time