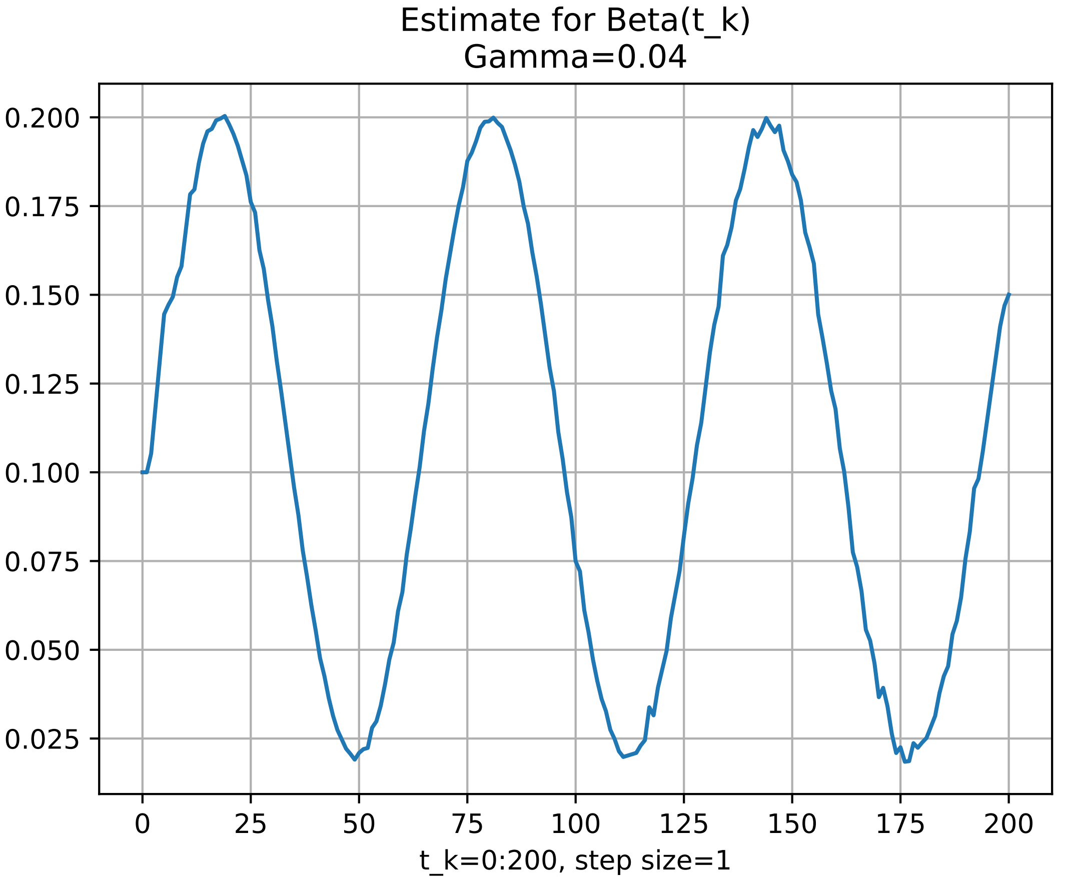
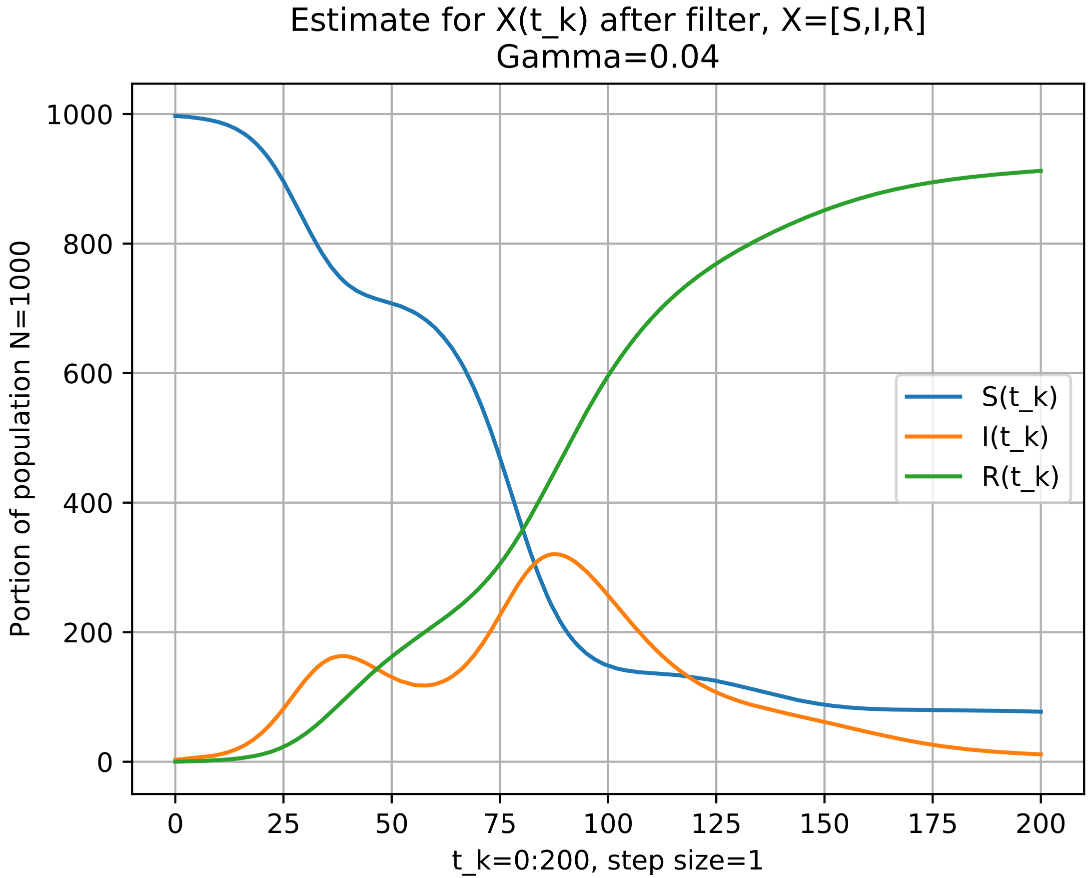
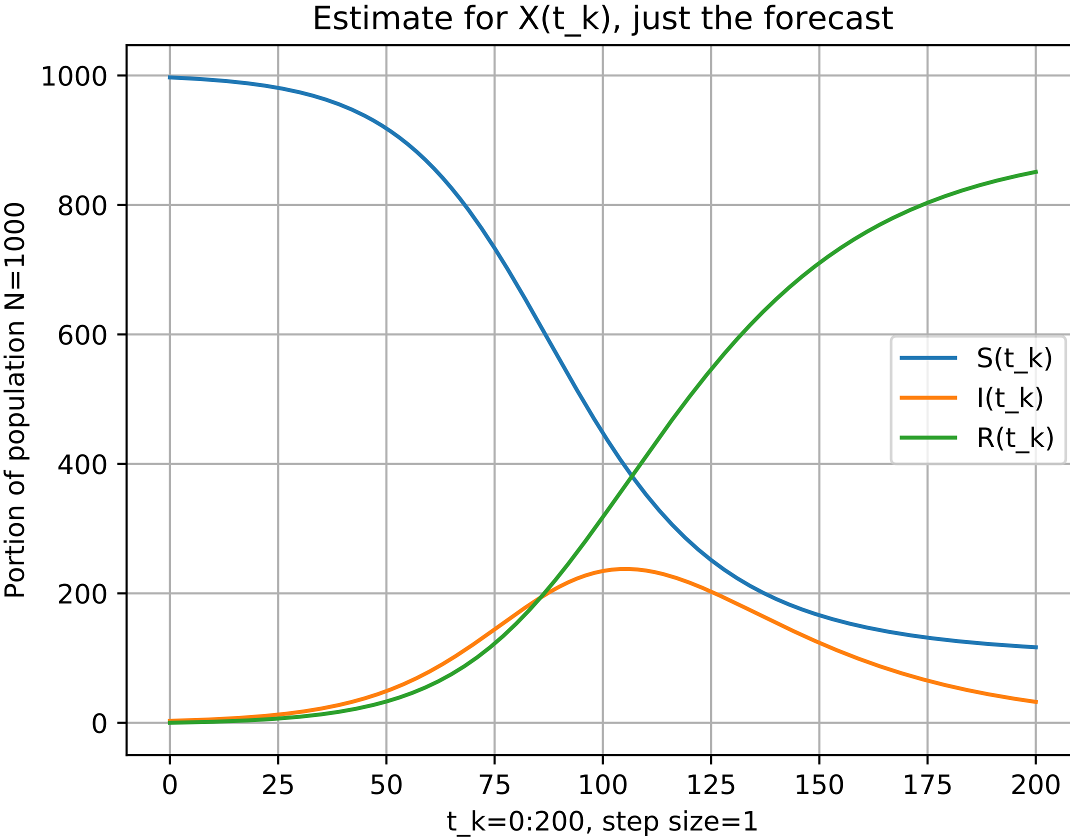

Estimate for Beta(t_k)
Gamma=0.04
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0
25
50
75
100
125
150
175
200
t_k=0:200, step size=1


Estimate for X(t_k) after filter, X=[S,I,R]
Gamma=0.04
Portion of population N=1000
0
200
400
600
800
1000
0
25
50
75
100
125
150
175
200
t_k=0:200, step size=1
S(t_k)
I(t_k)
R(t_k)


Estimate for X(t_k), just the forecast
Portion of population N=1000
t_k=0:200, step size=1
S(t_k)
I(t_k)
R(t_k)
0
200
400
600
800
1000
0
25
50
75
100
125
150
175
200