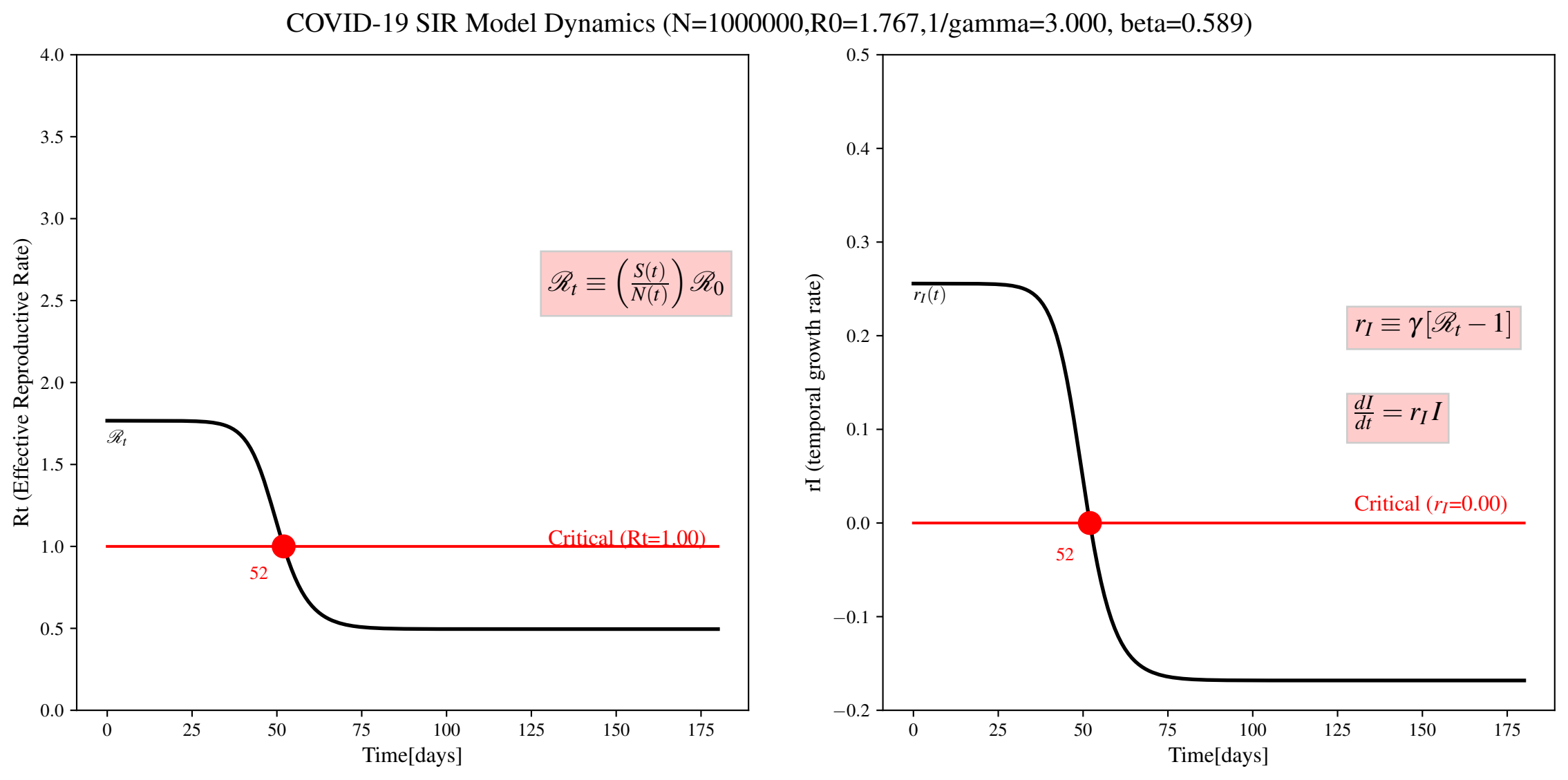
COVID-19 SIR Model Dynamics (N=1000000,R0=1.767,1/gamma=3.000, beta=0.589)
Rt (Effective Reproductive Rate)
Time[days]
$\mathscr{R}_t \equiv \left(\frac{S(t)}{N(t)}\right)\mathscr{R}_0$
$\mathscr{R}_t$
Critical (Rt=1.00)
52
rI (temporal growth rate)
Time[days]
$r_I(t)$
$r_I \equiv \gamma[\mathscr{R}_t - 1]$
$\frac{dI}{dt} = r_I I$
Critical (r_I=0.00)
52