

MATLAB GENERATED FIGURES

System of ODEs

$$\frac{dN(t)}{dt} = a_1N(t)(1 - bN(t)) - a_2N(t) - \alpha_1N(t)T(t)$$

$$\frac{dL(t)}{dt} = r_1N(t)T(t) + r_2I_02^{-\frac{t}{h}} - \mu L(t) - \beta_1L(t)T(t)$$

$$\frac{dT(t)}{dt} = cT(t)(1 - dT(t)) - \alpha_2N(t)T(t) - \beta_2L(t)T(t)$$

System of ODEs Solution using ode45

