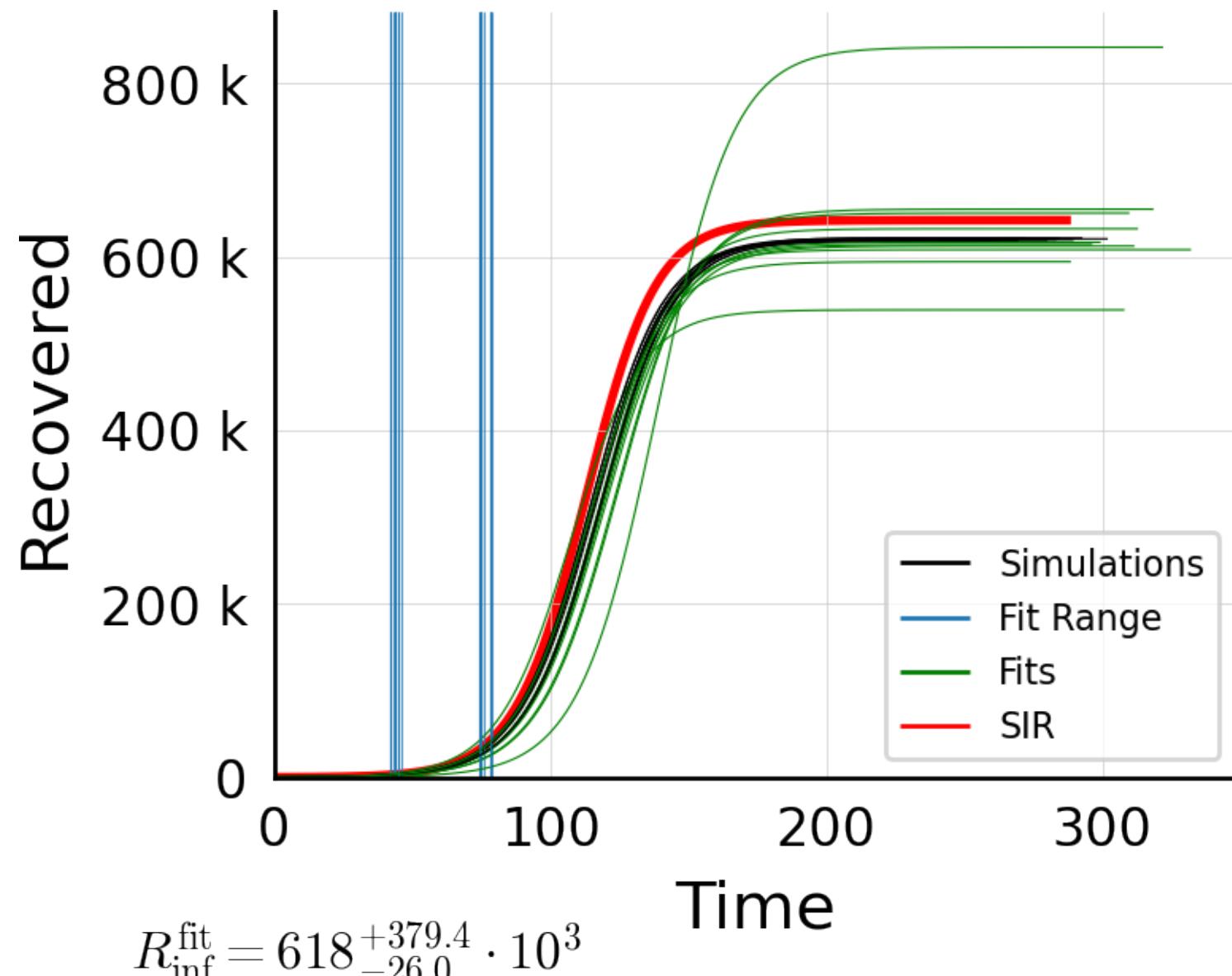
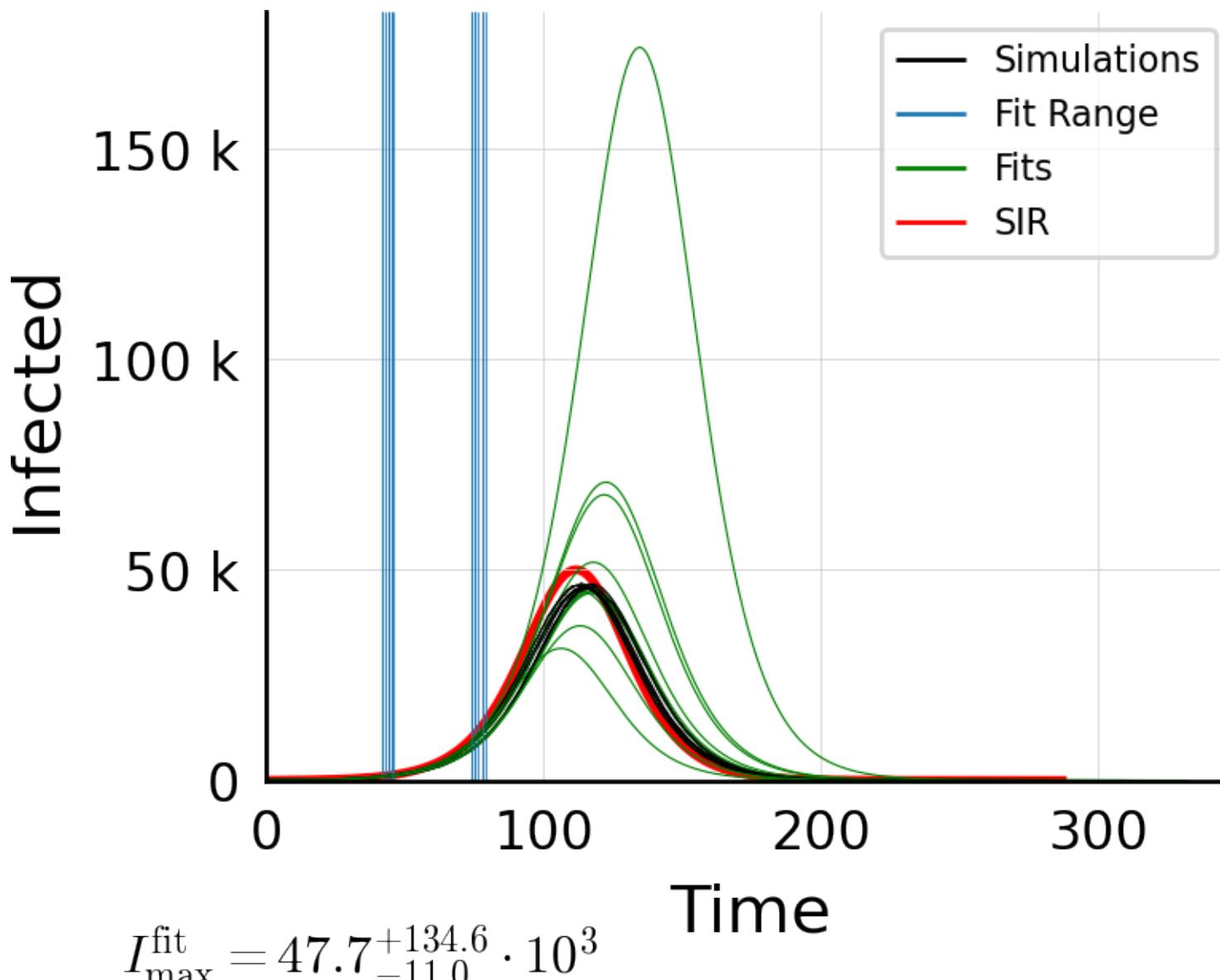
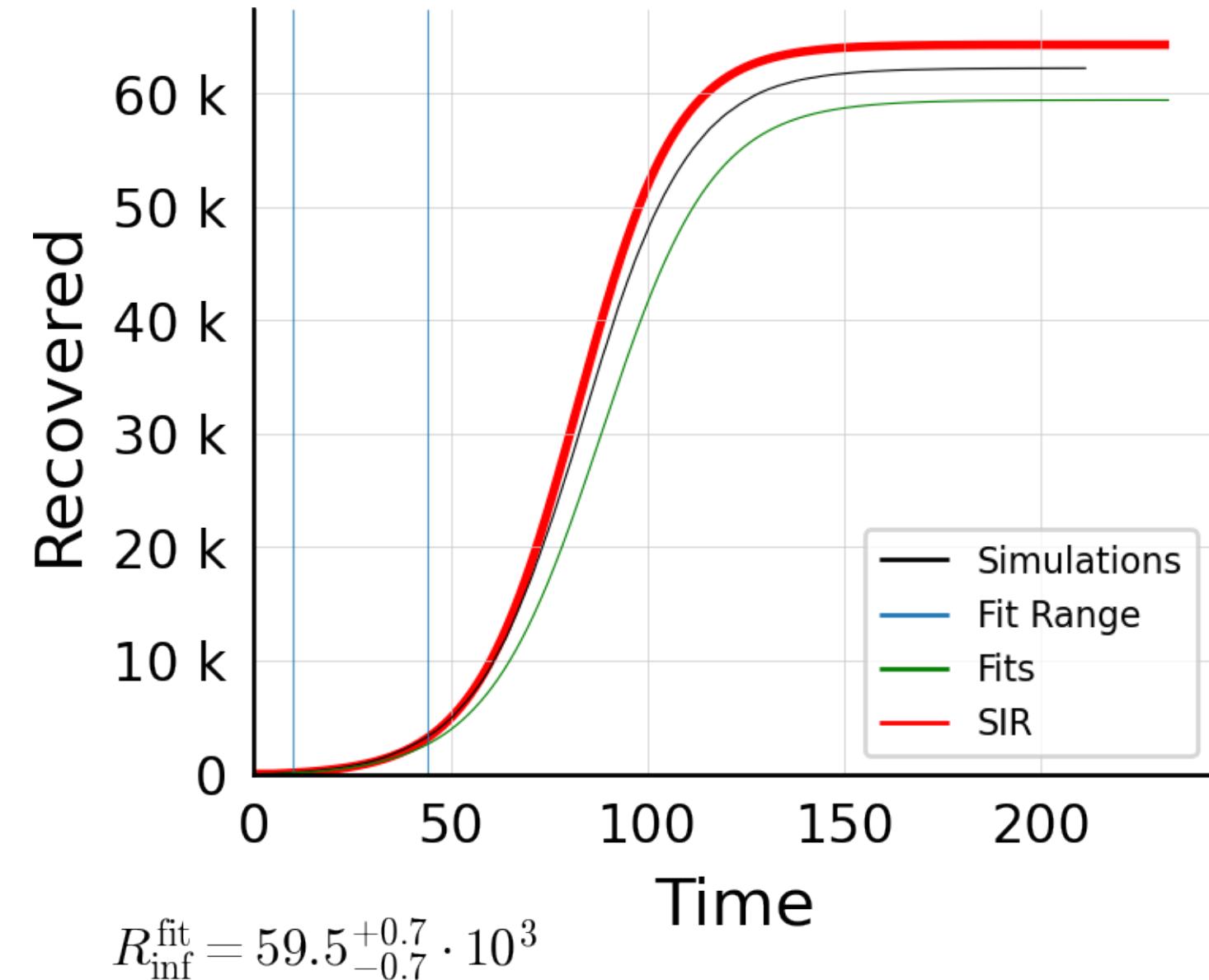
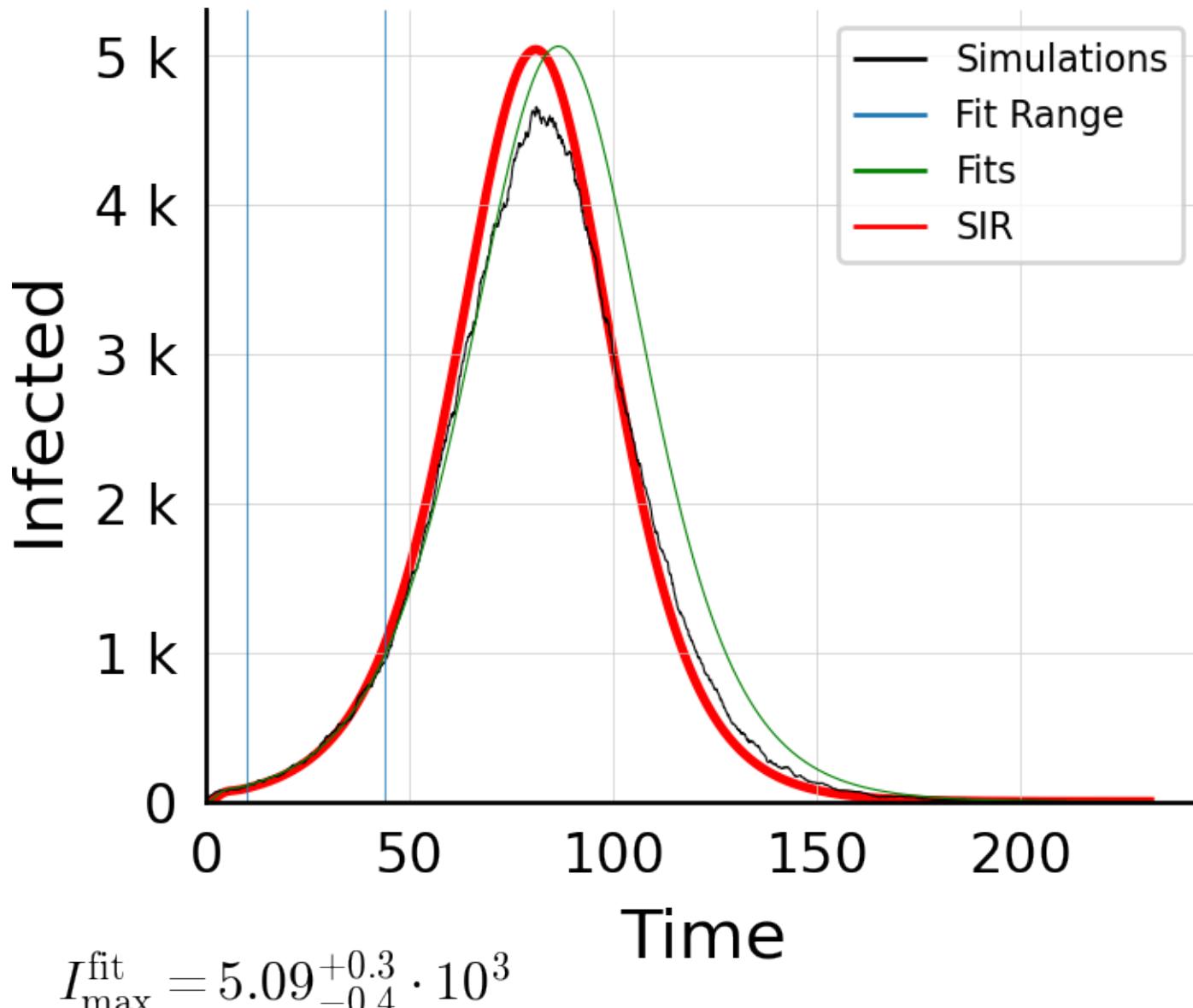


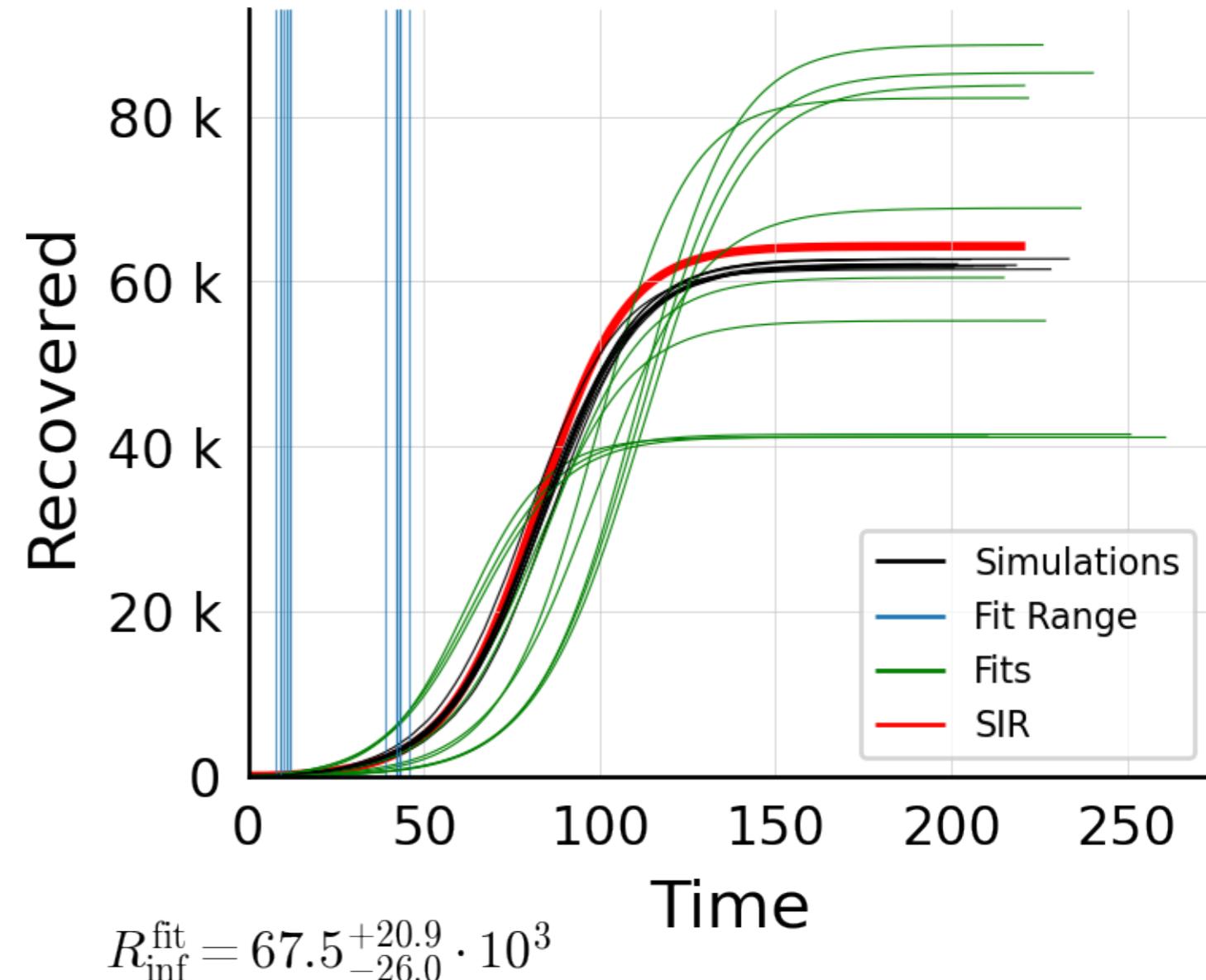
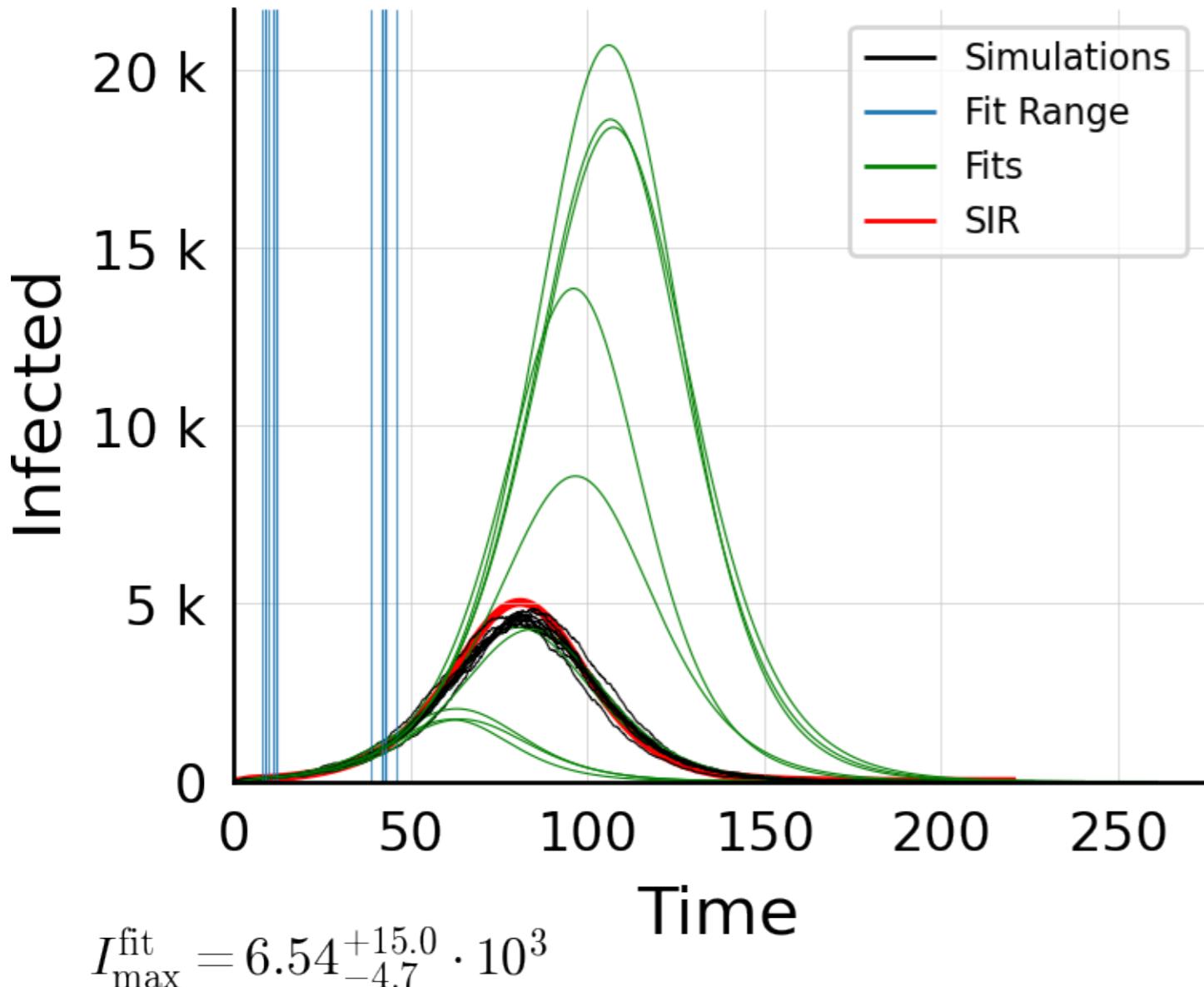
$N_{\text{tot}} = 1M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



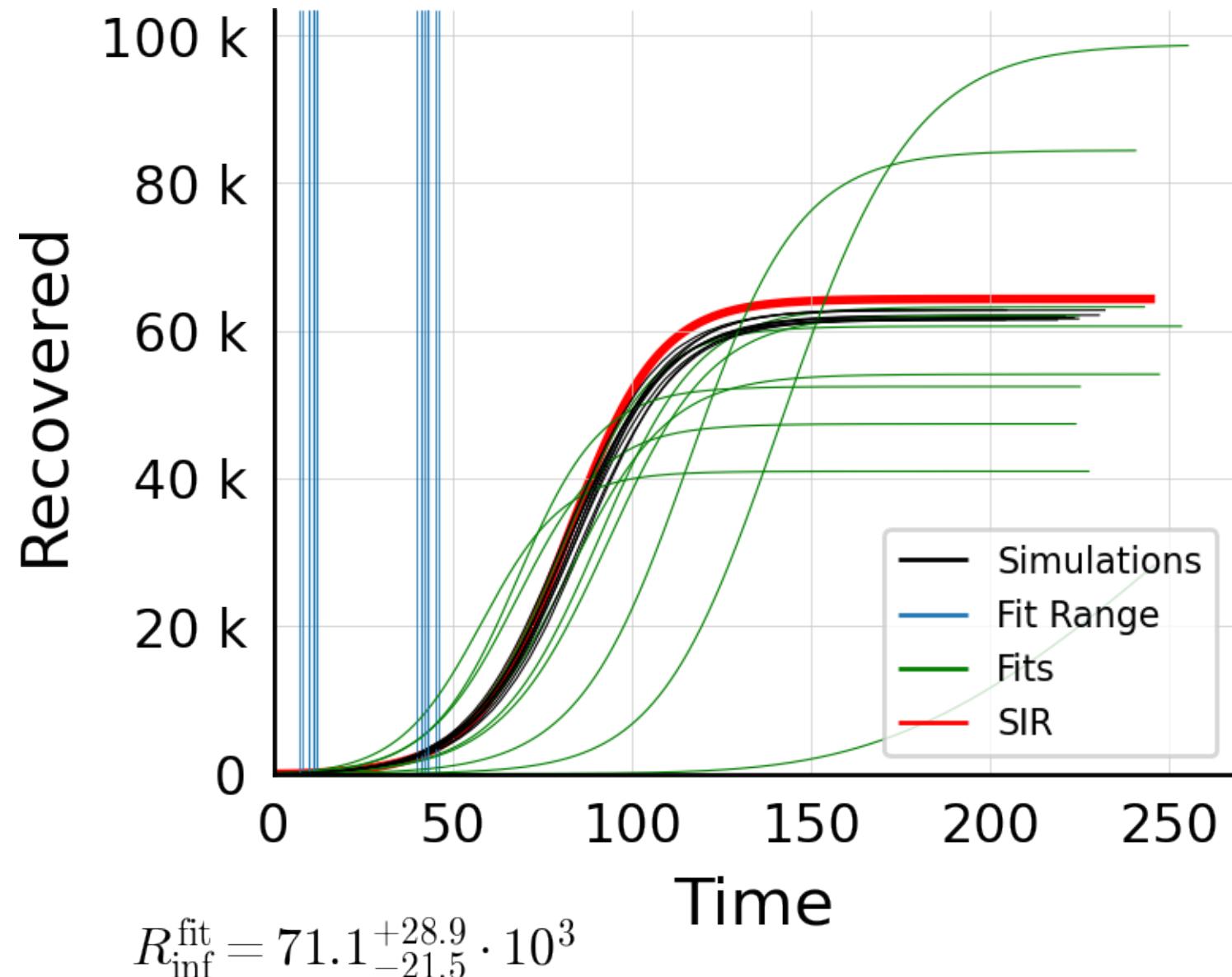
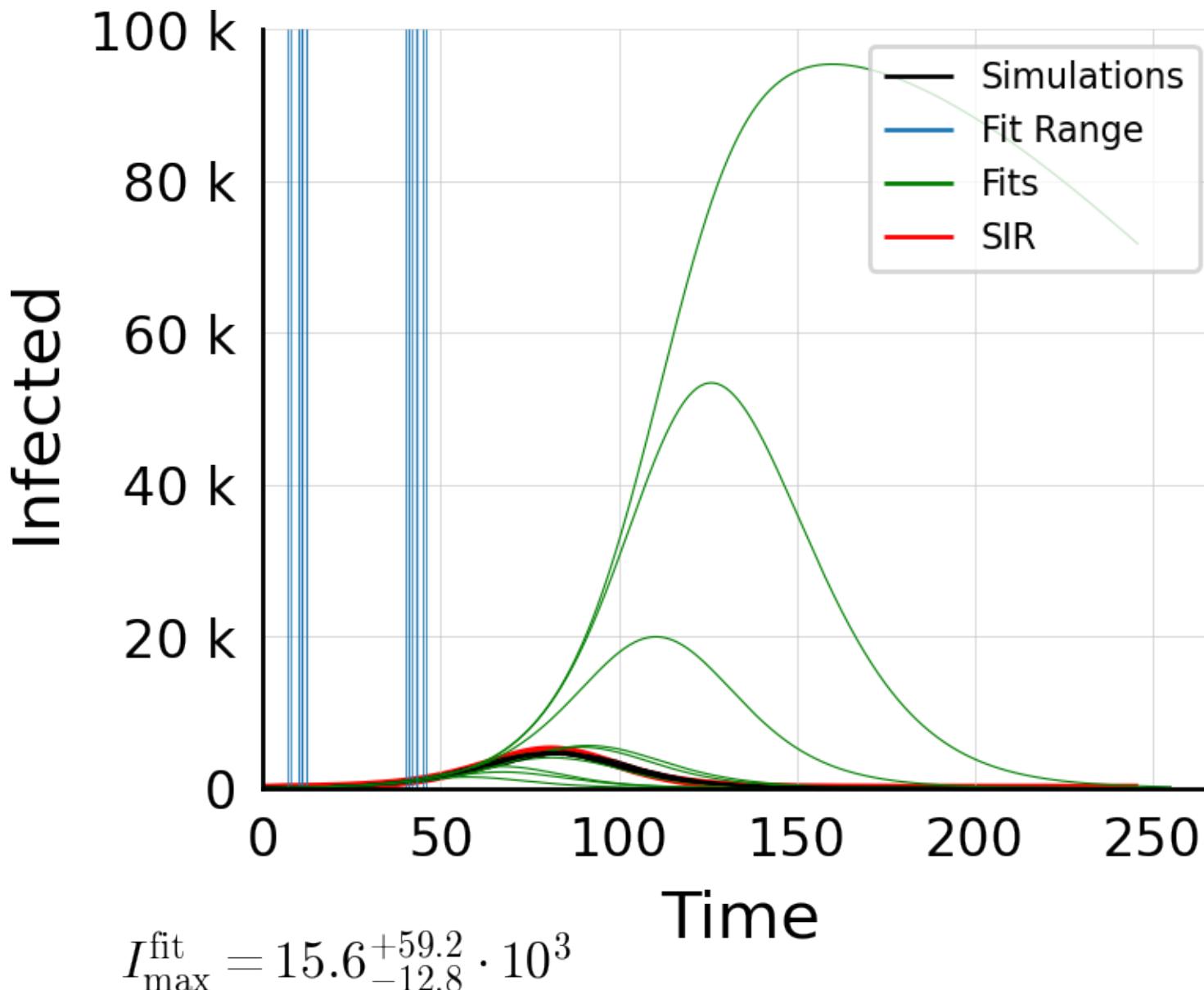
$N_{\text{tot}} = 100K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 10$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #1



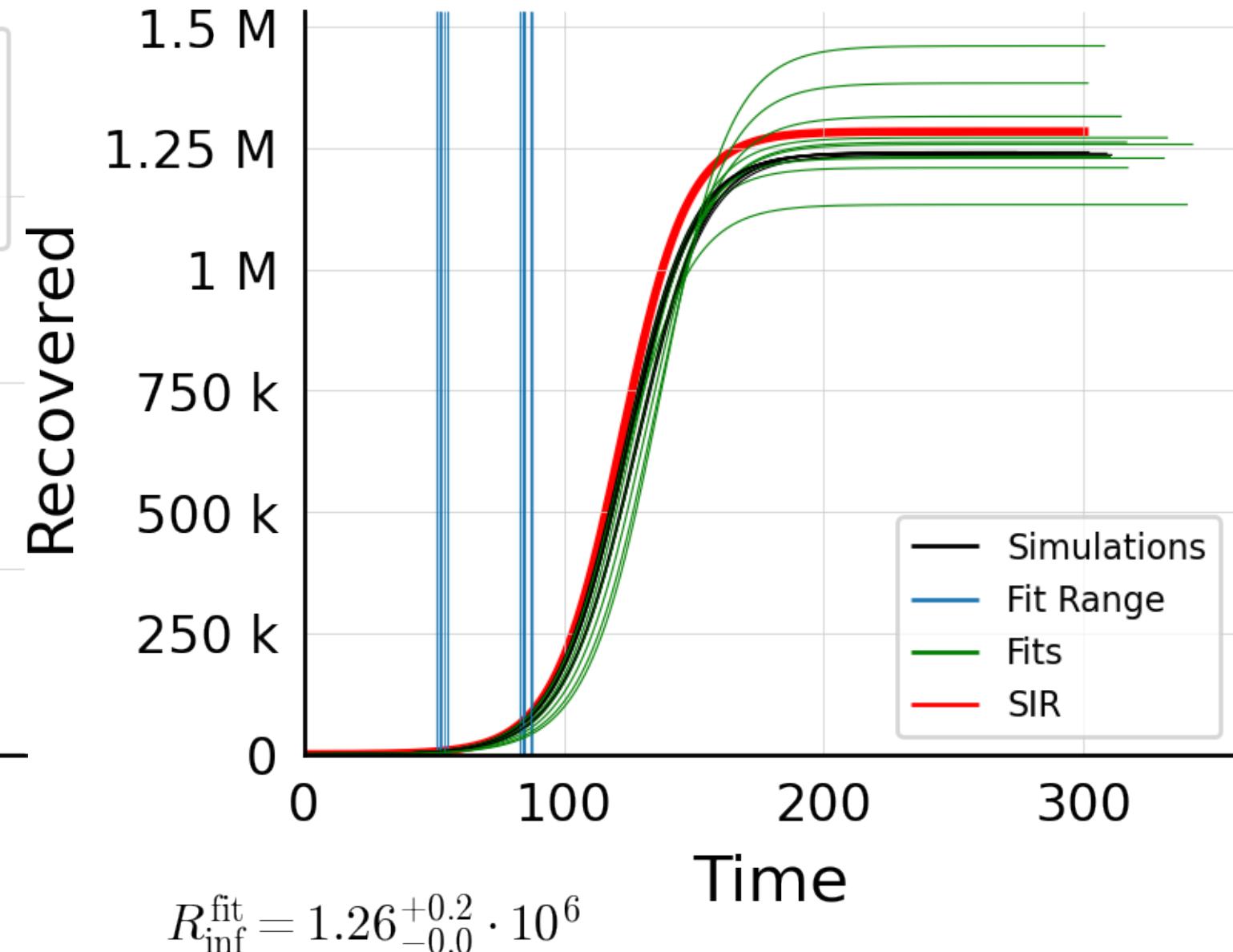
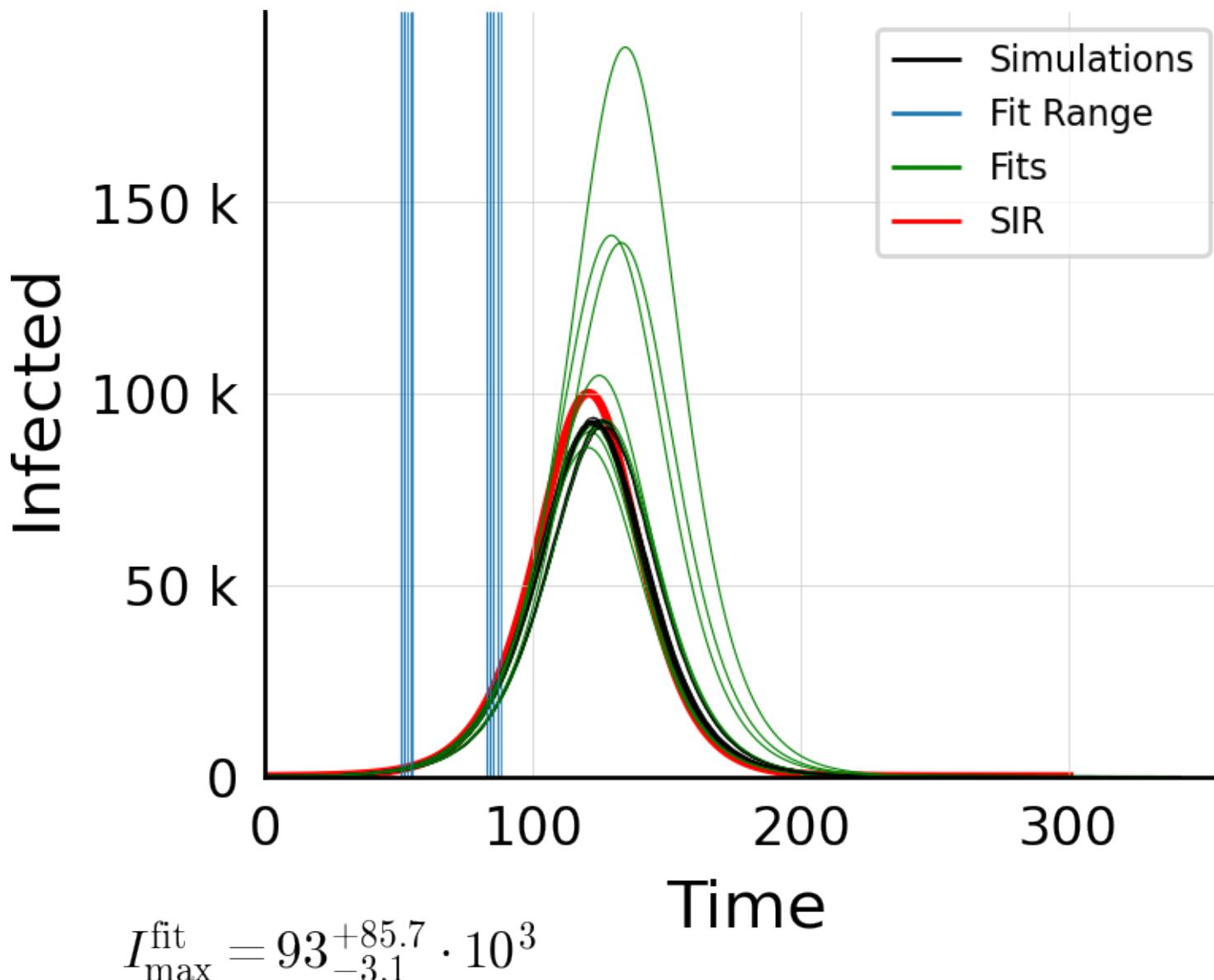
$N_{\text{tot}} = 100K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



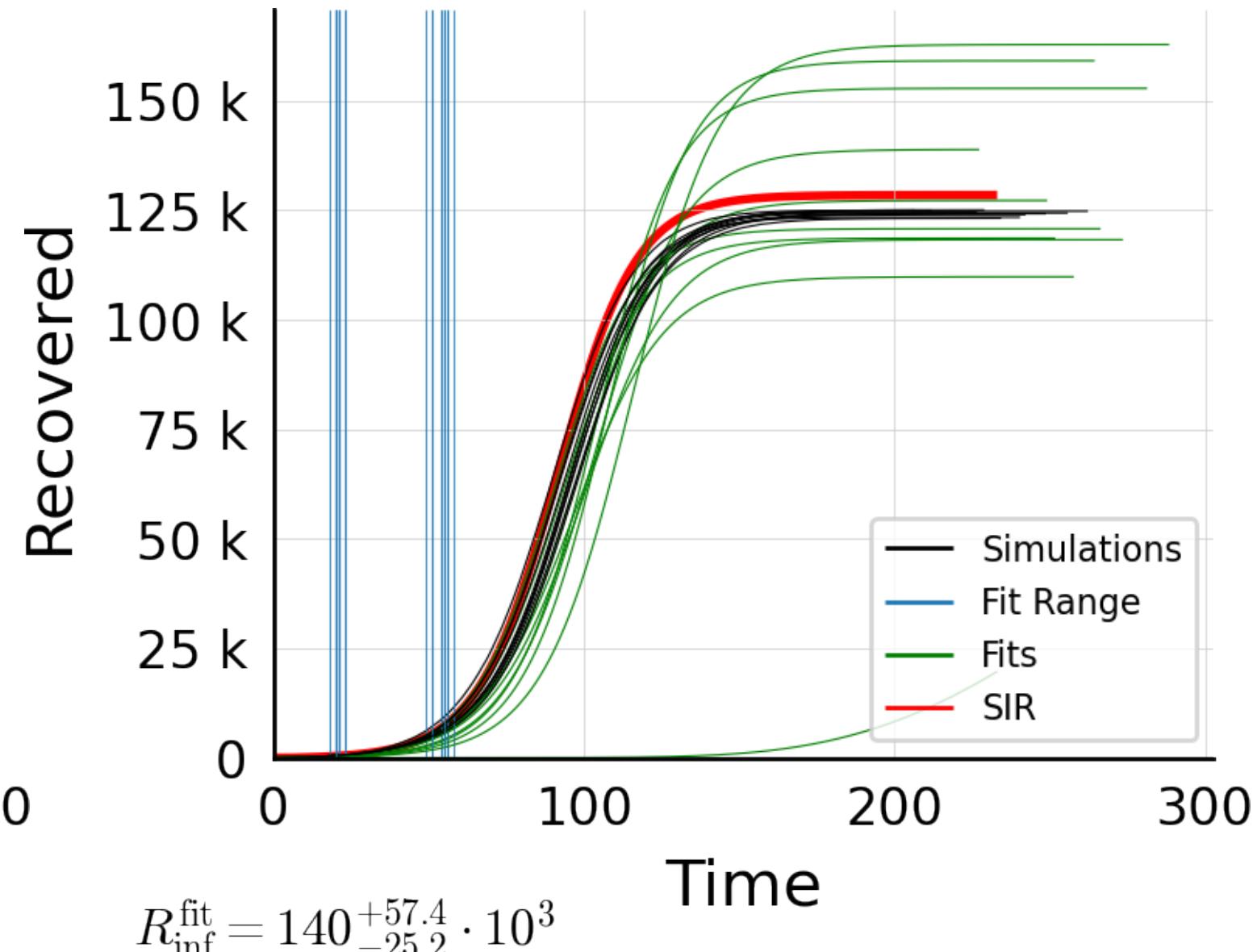
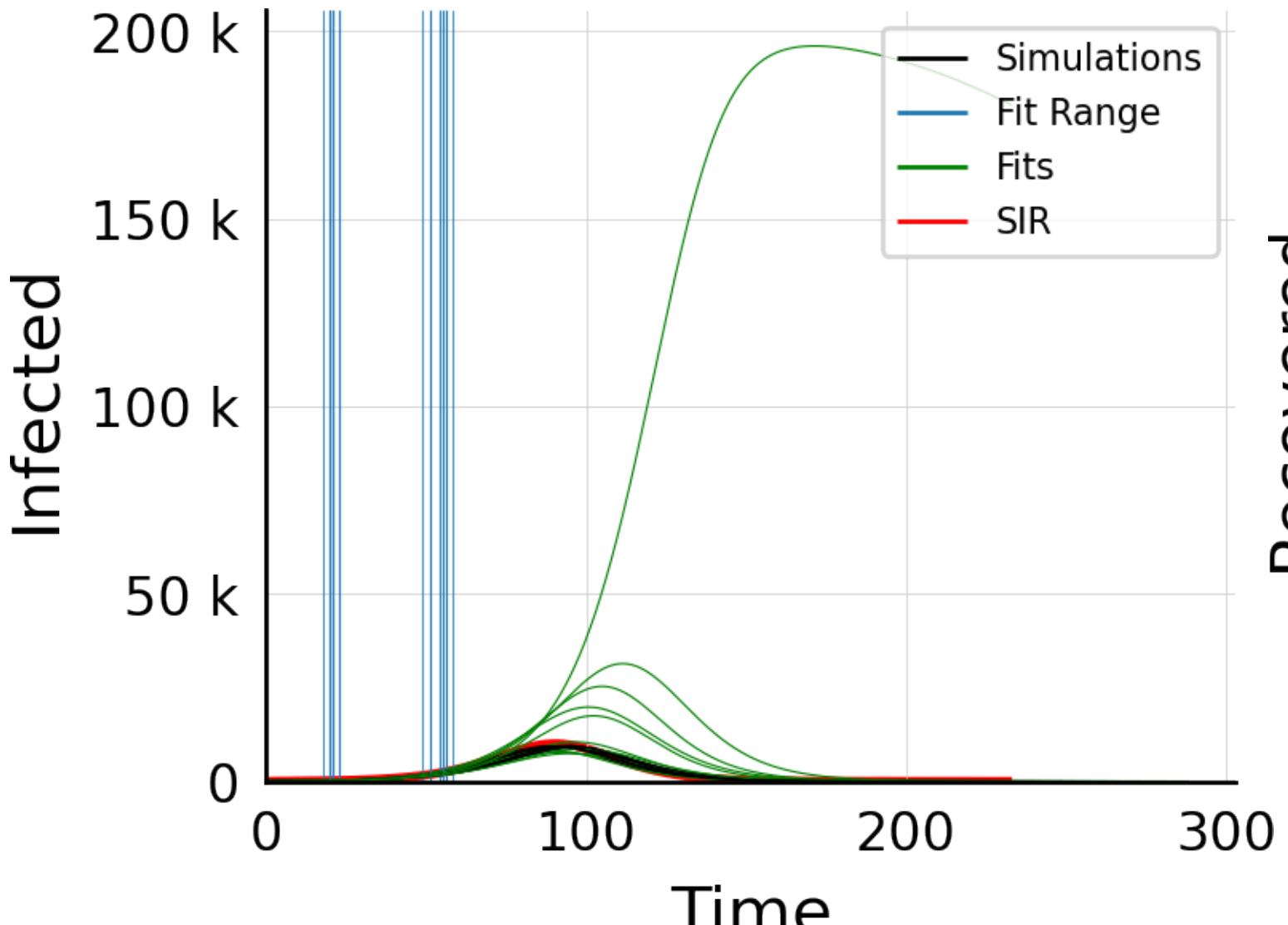
$N_{\text{tot}} = 100K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



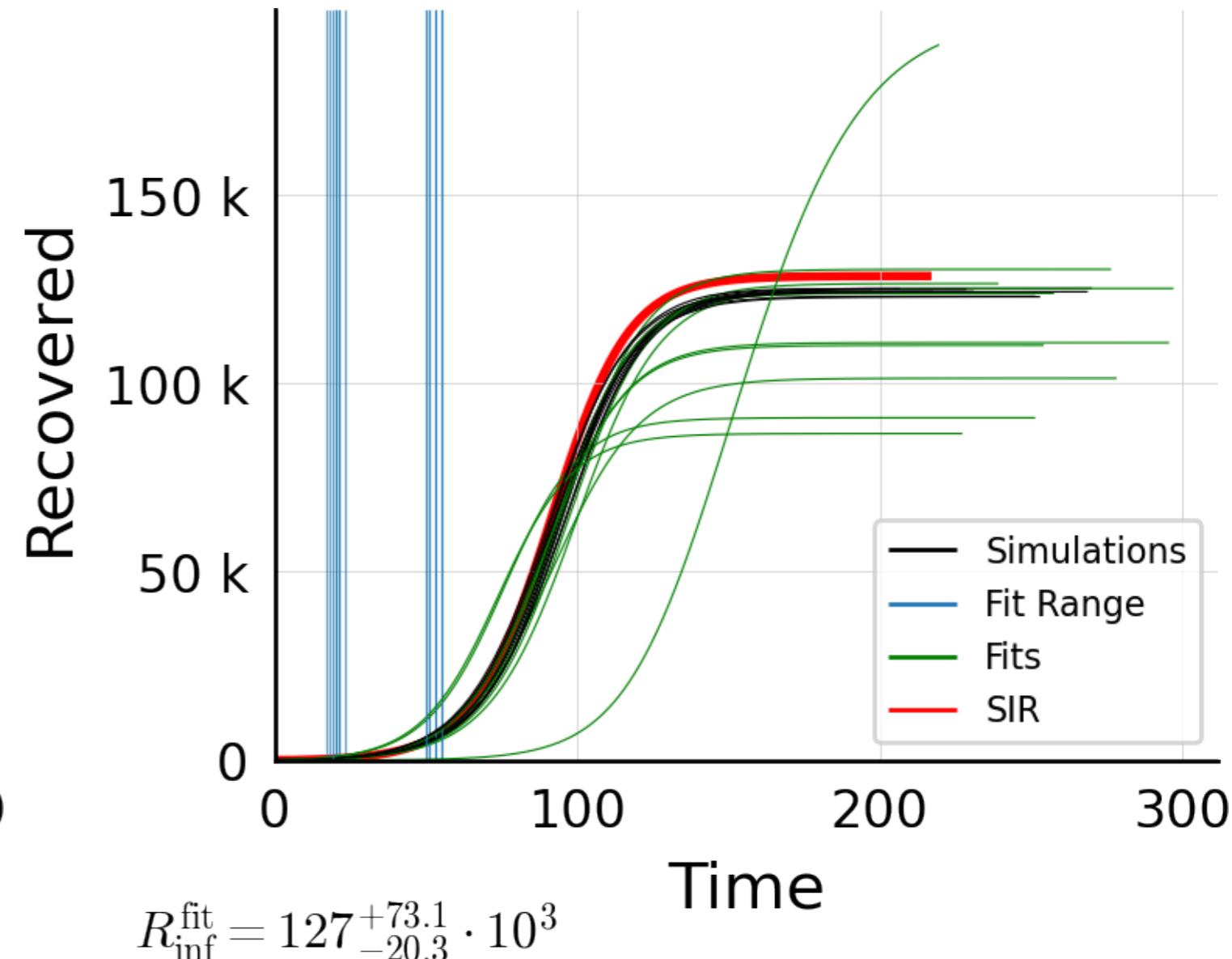
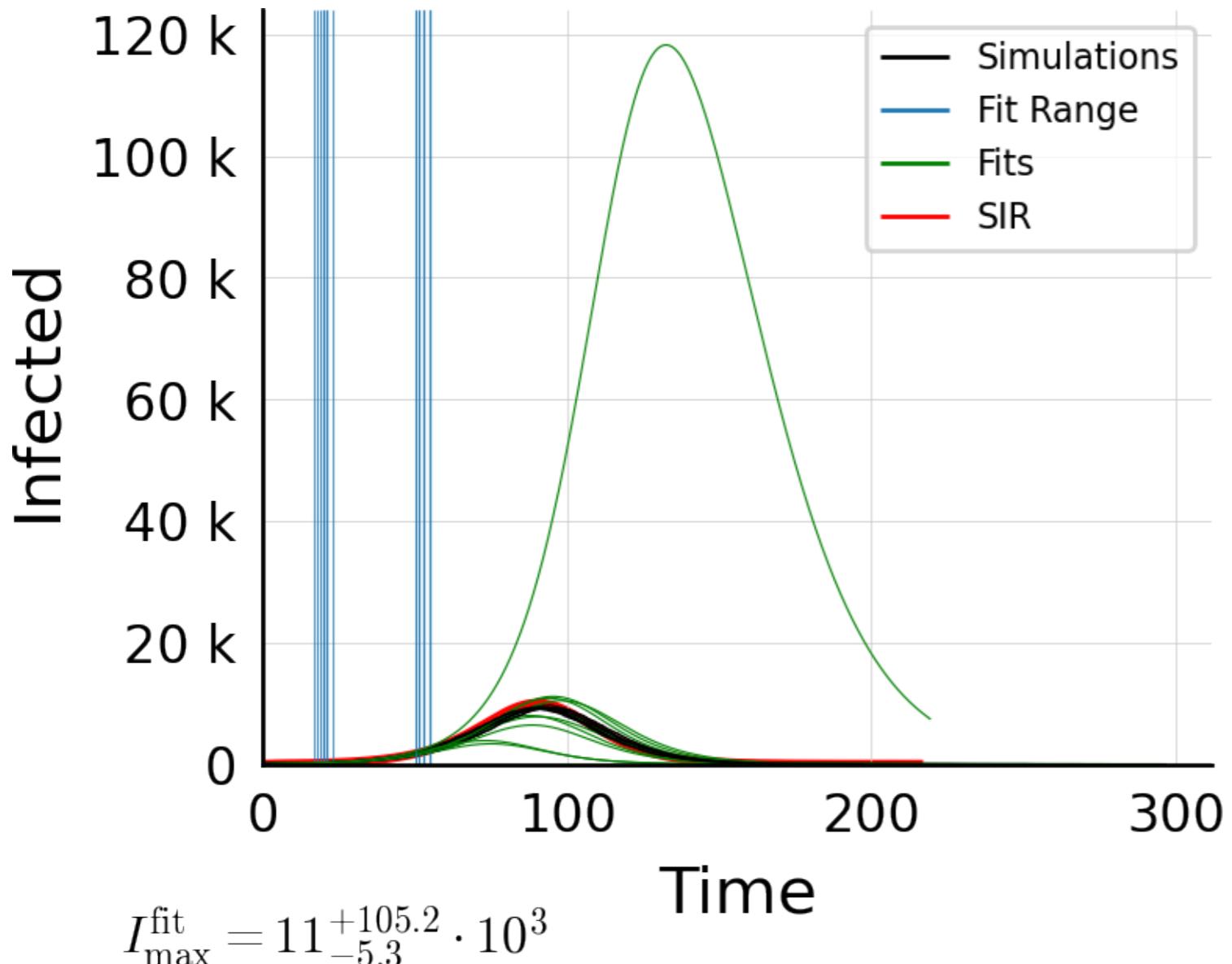
$N_{\text{tot}} = 2M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



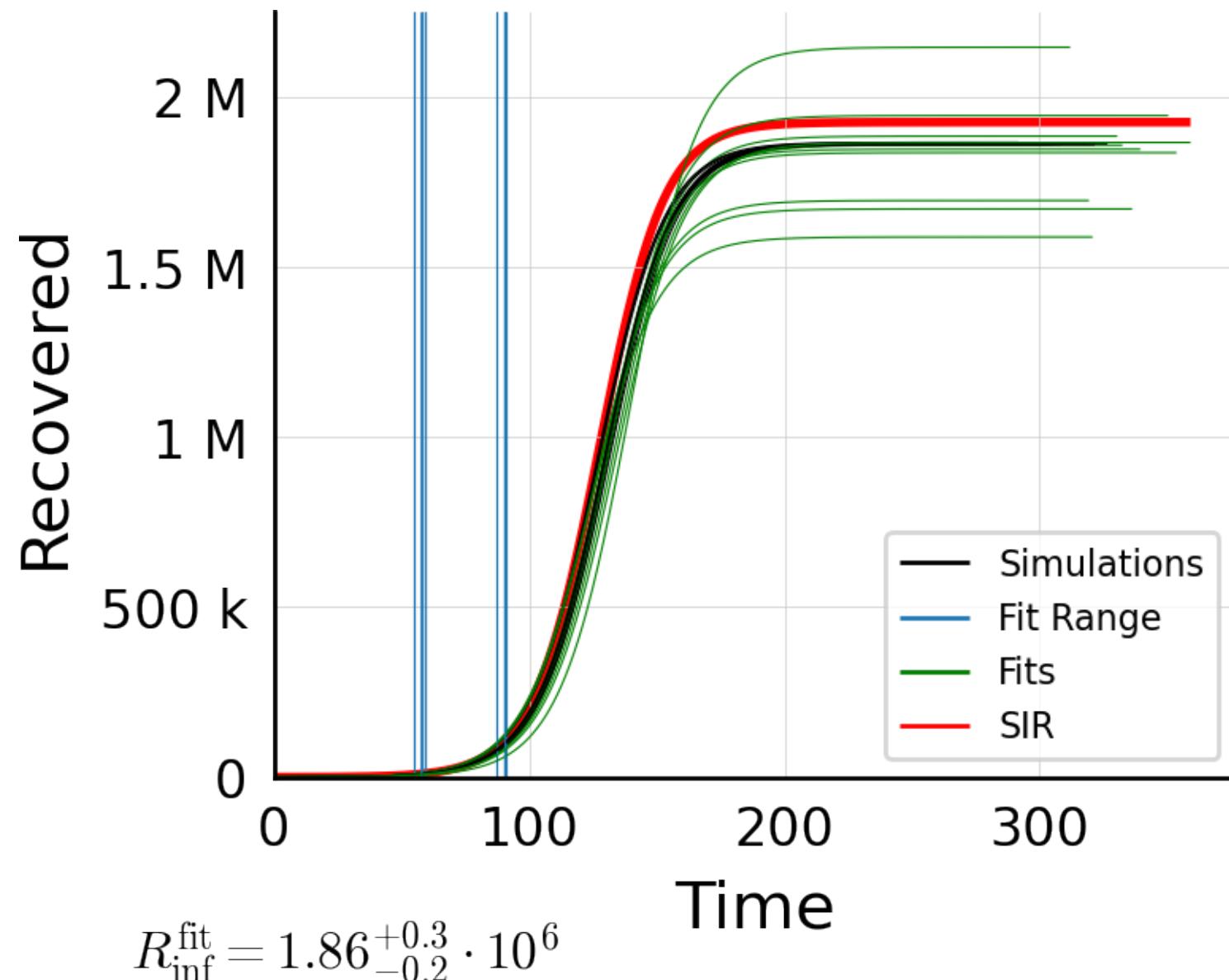
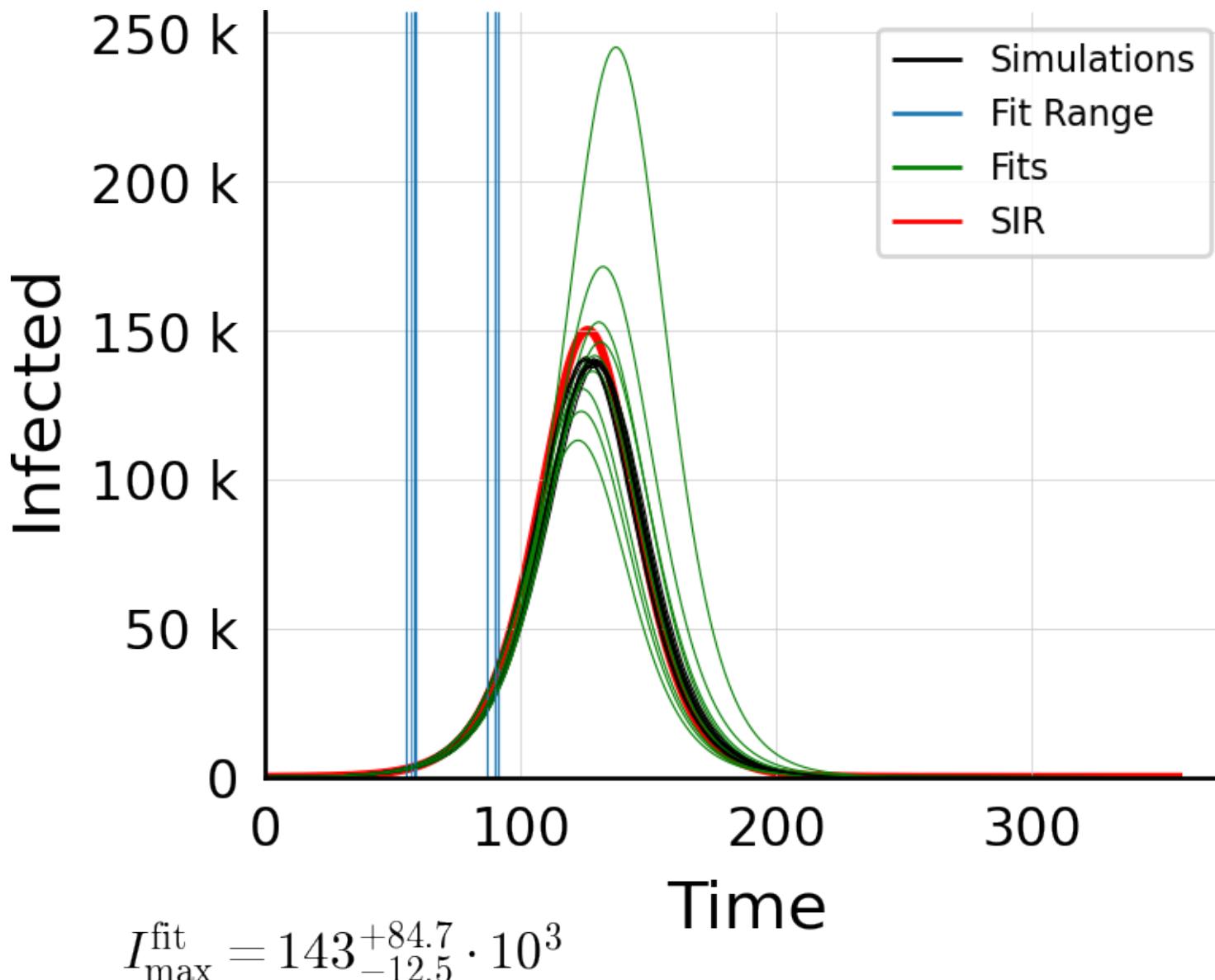
$N_{\text{tot}} = 200K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



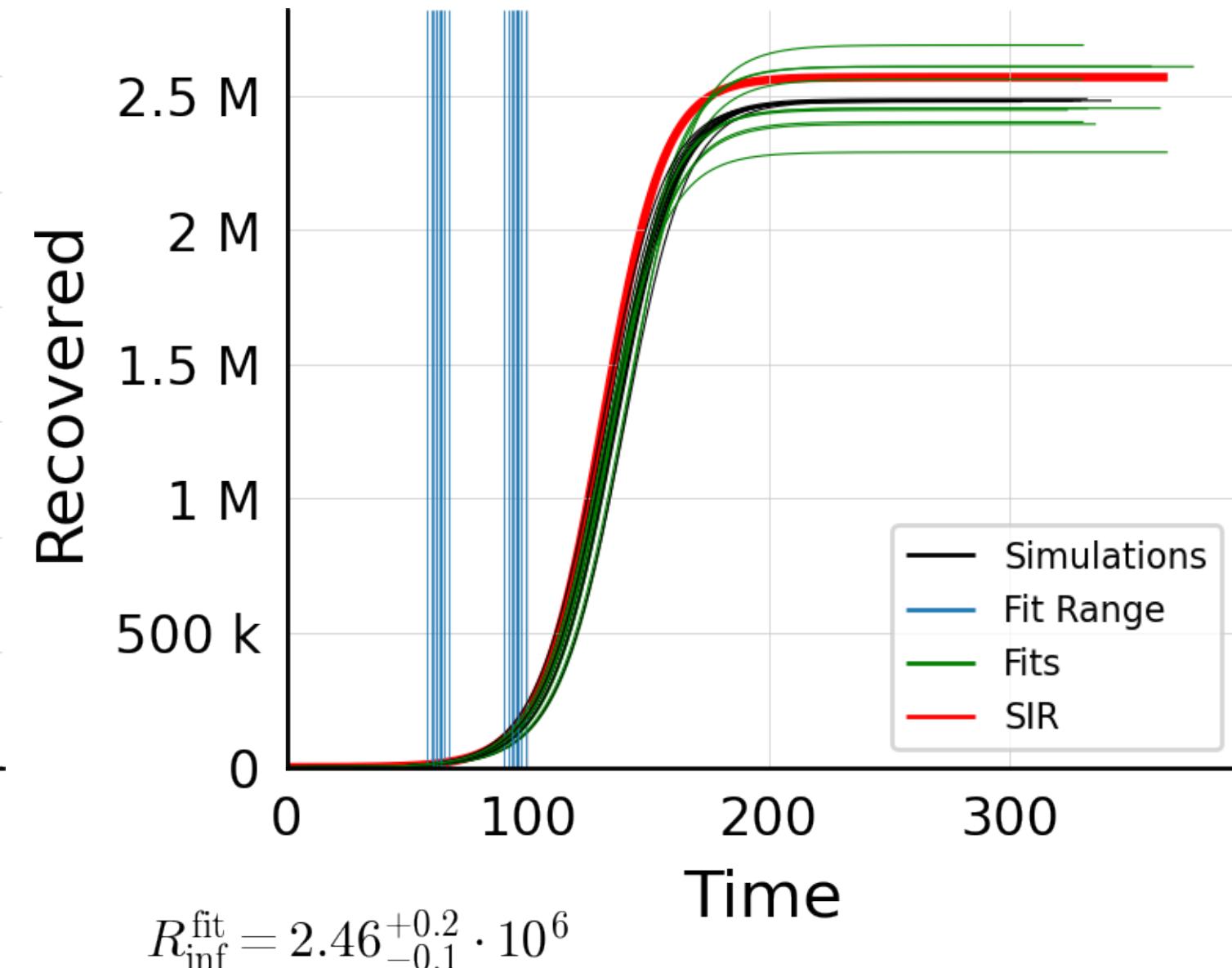
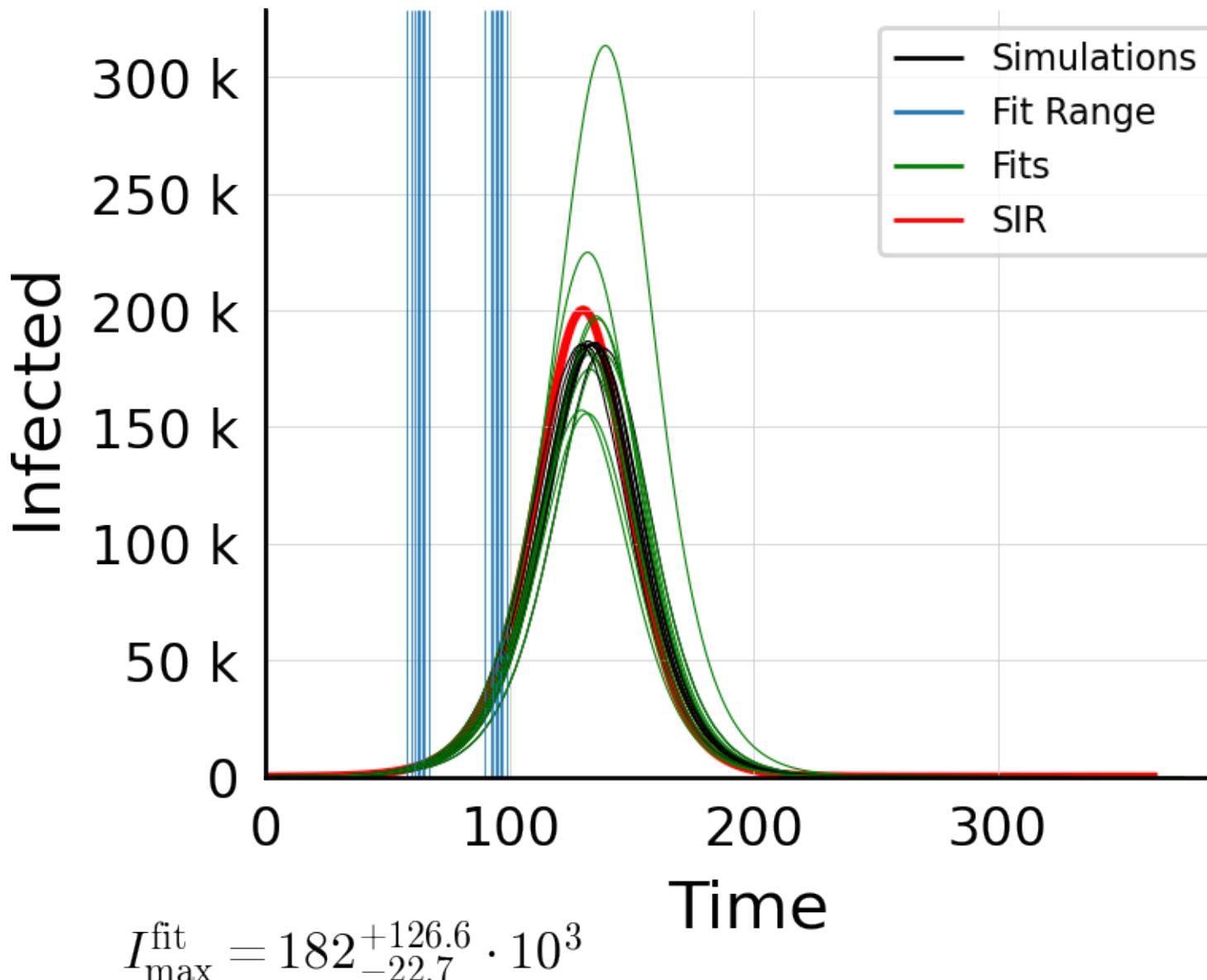
$N_{\text{tot}} = 200K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



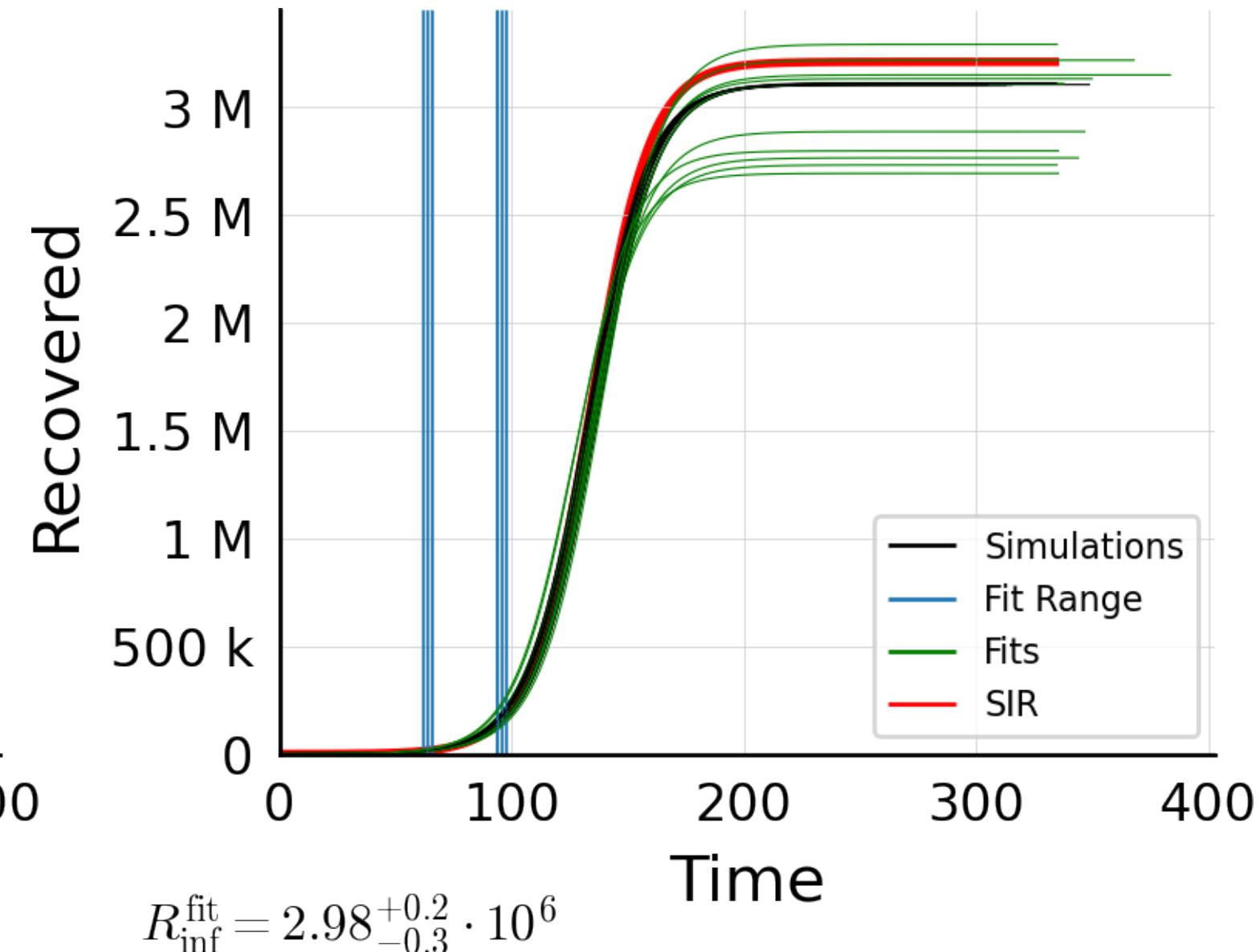
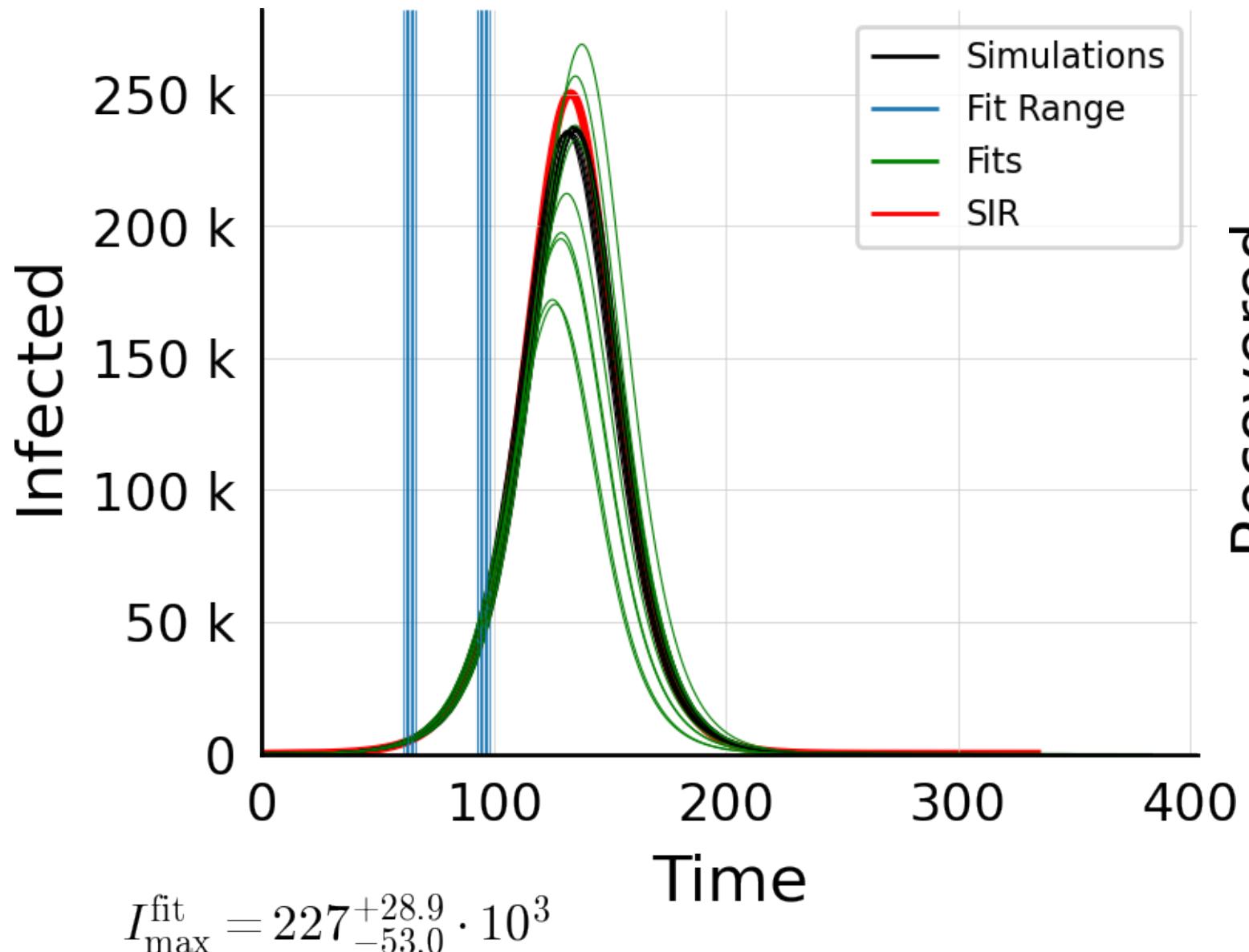
$N_{\text{tot}} = 3M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



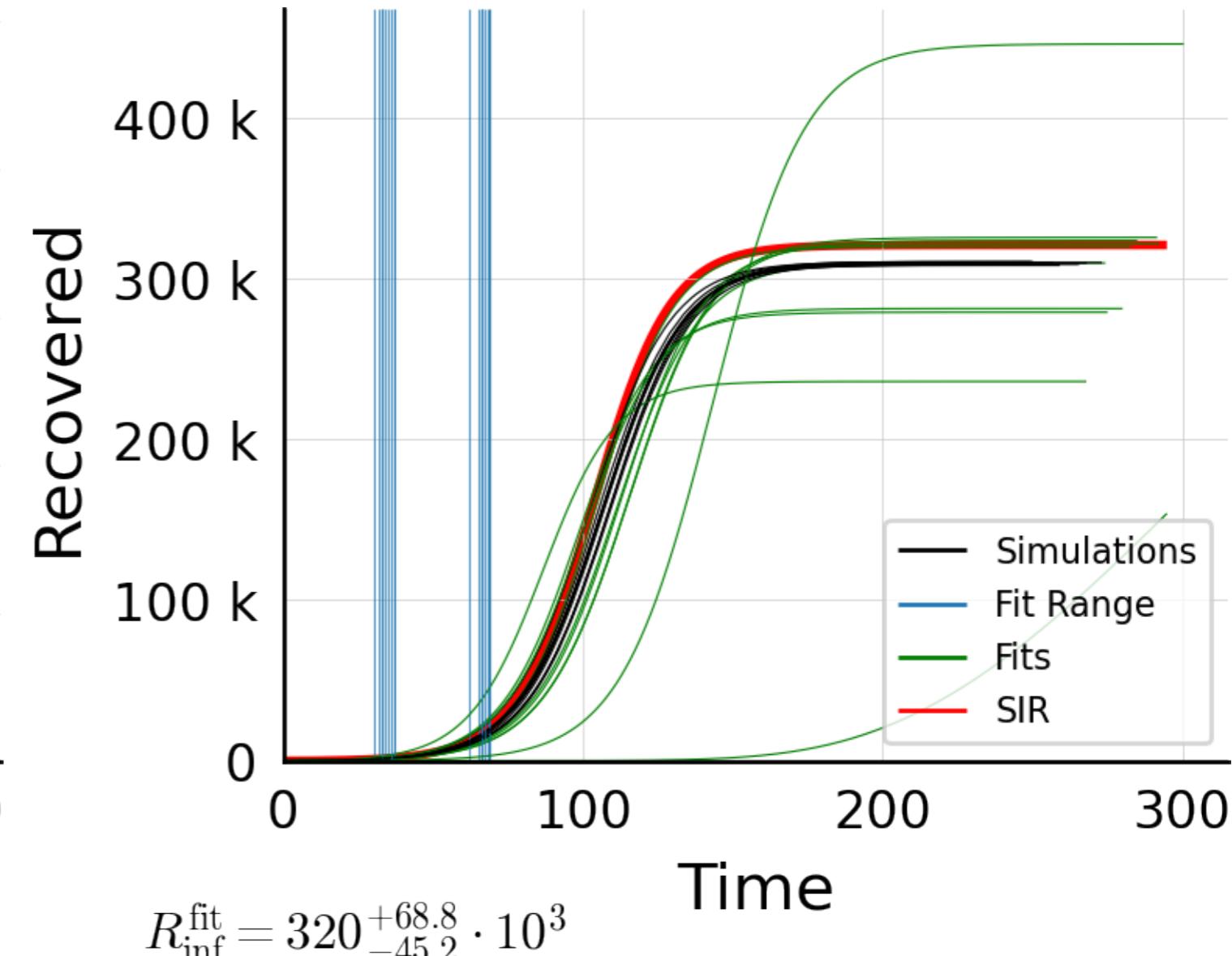
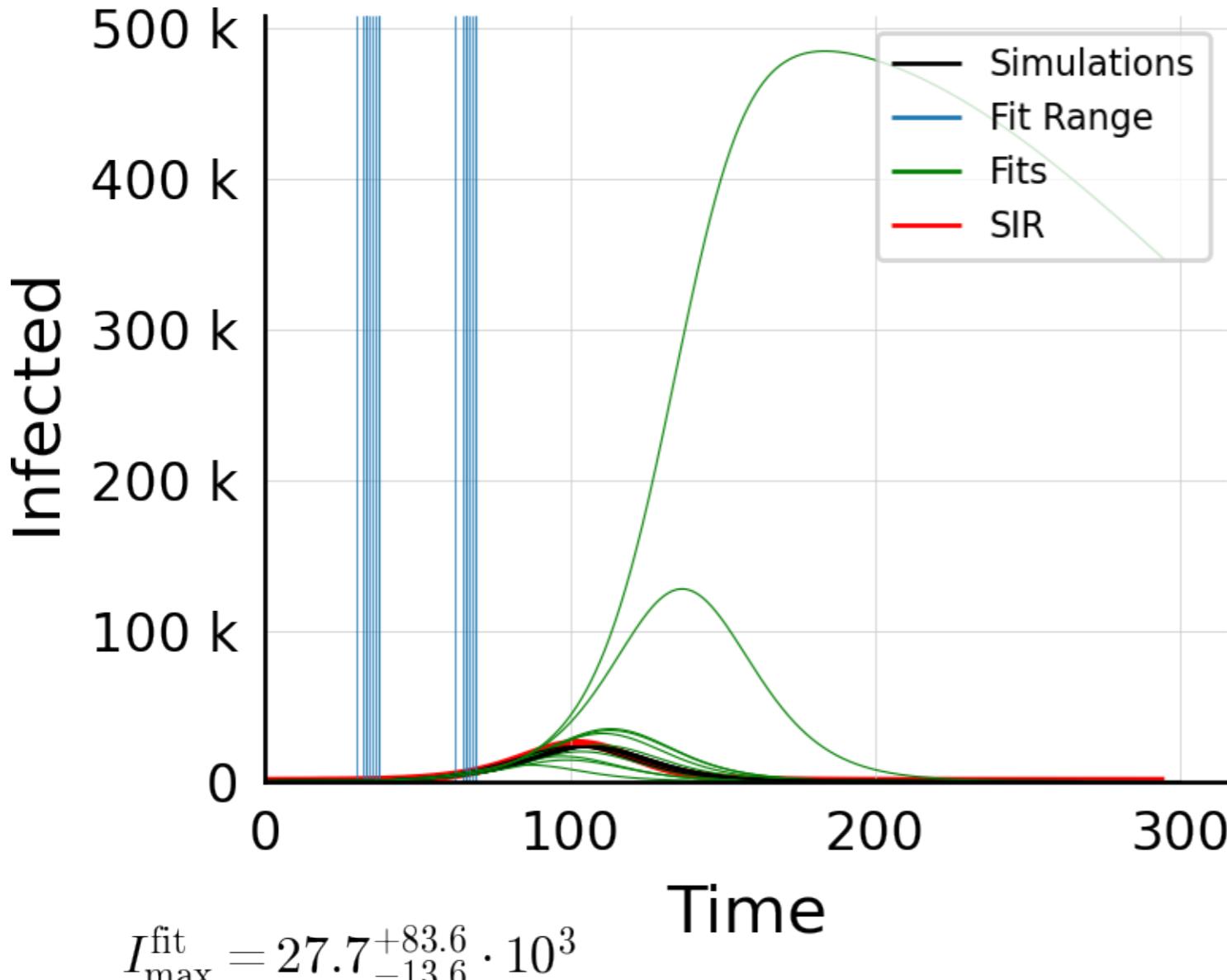
$N_{\text{tot}} = 4M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



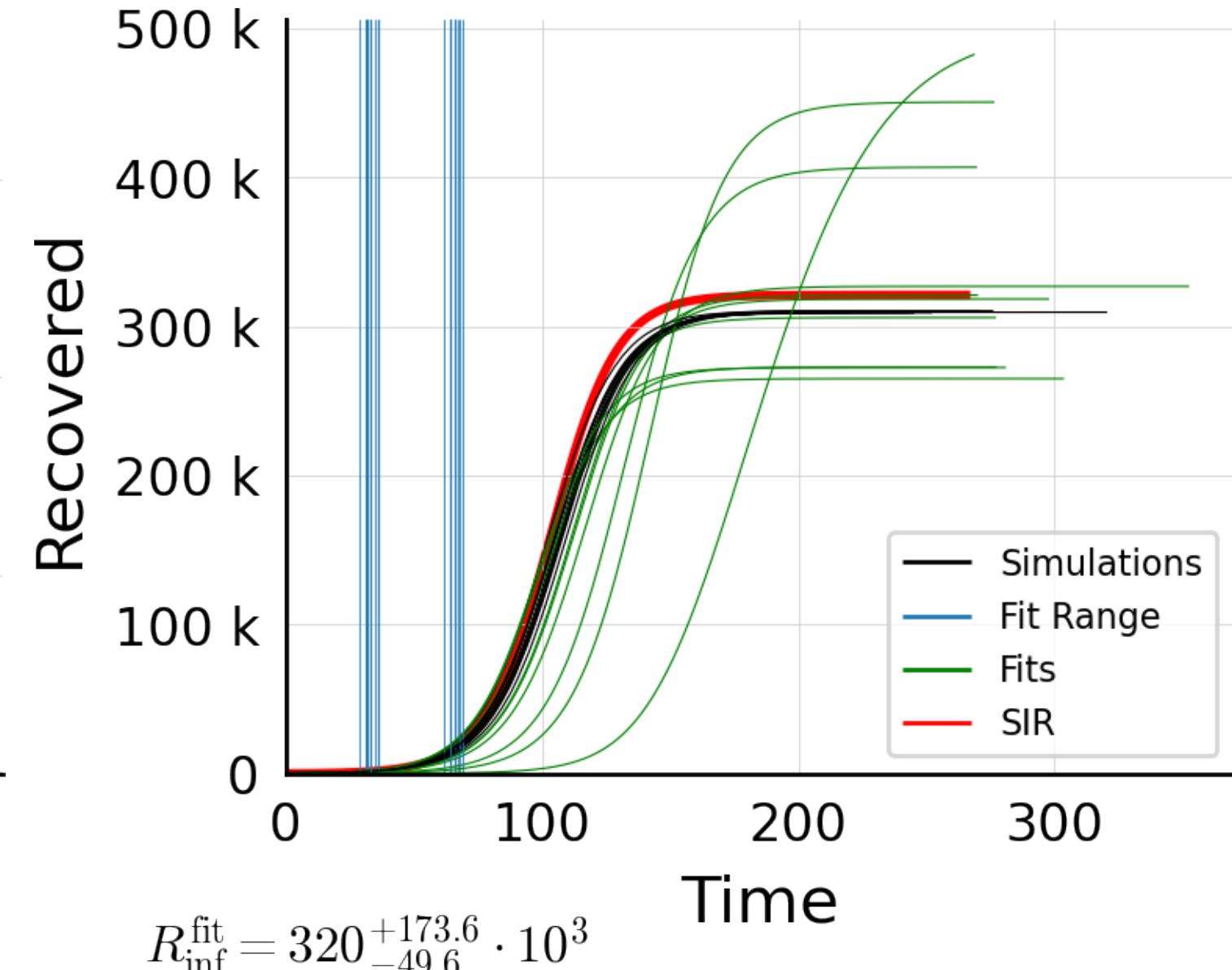
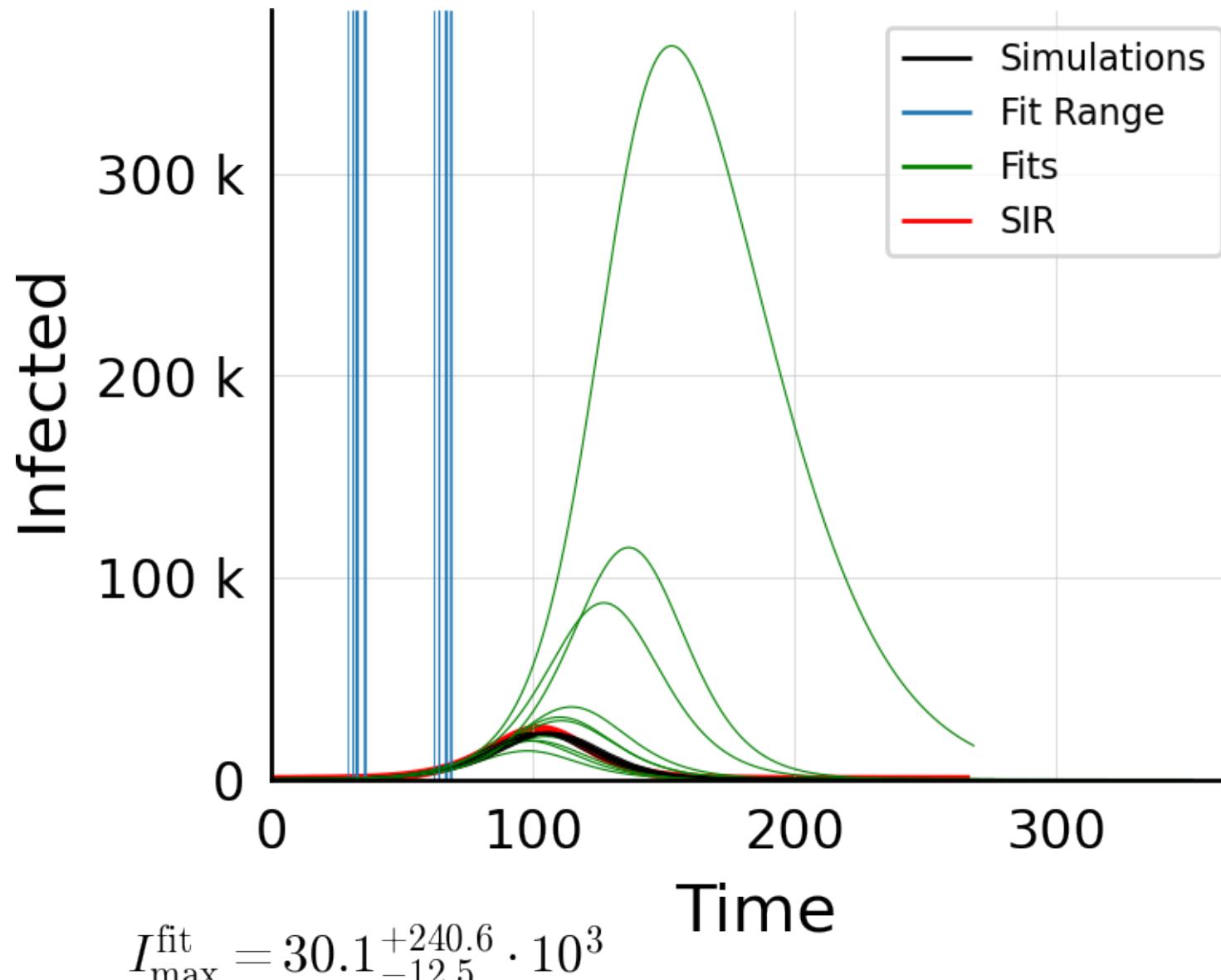
$N_{\text{tot}} = 5M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



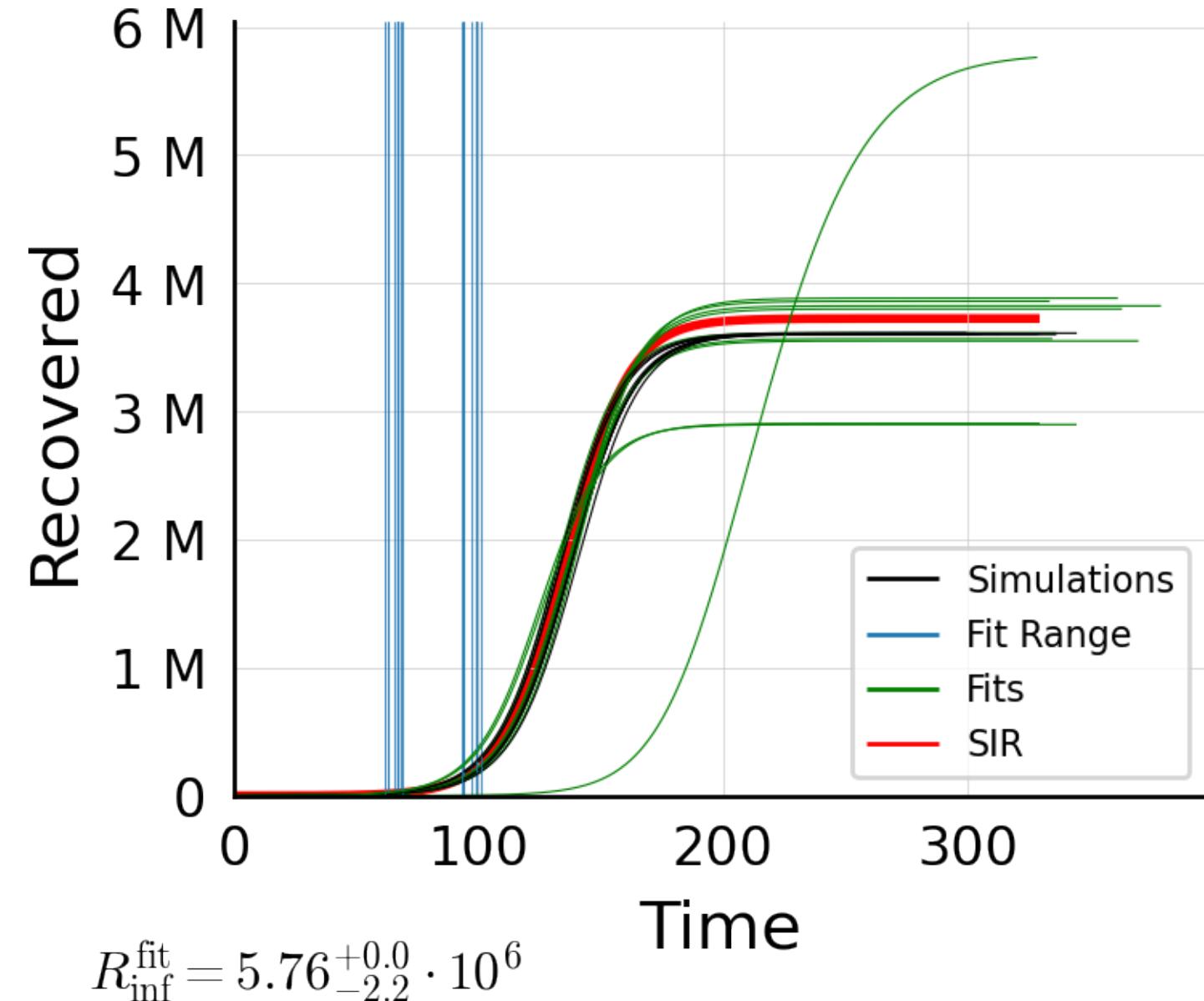
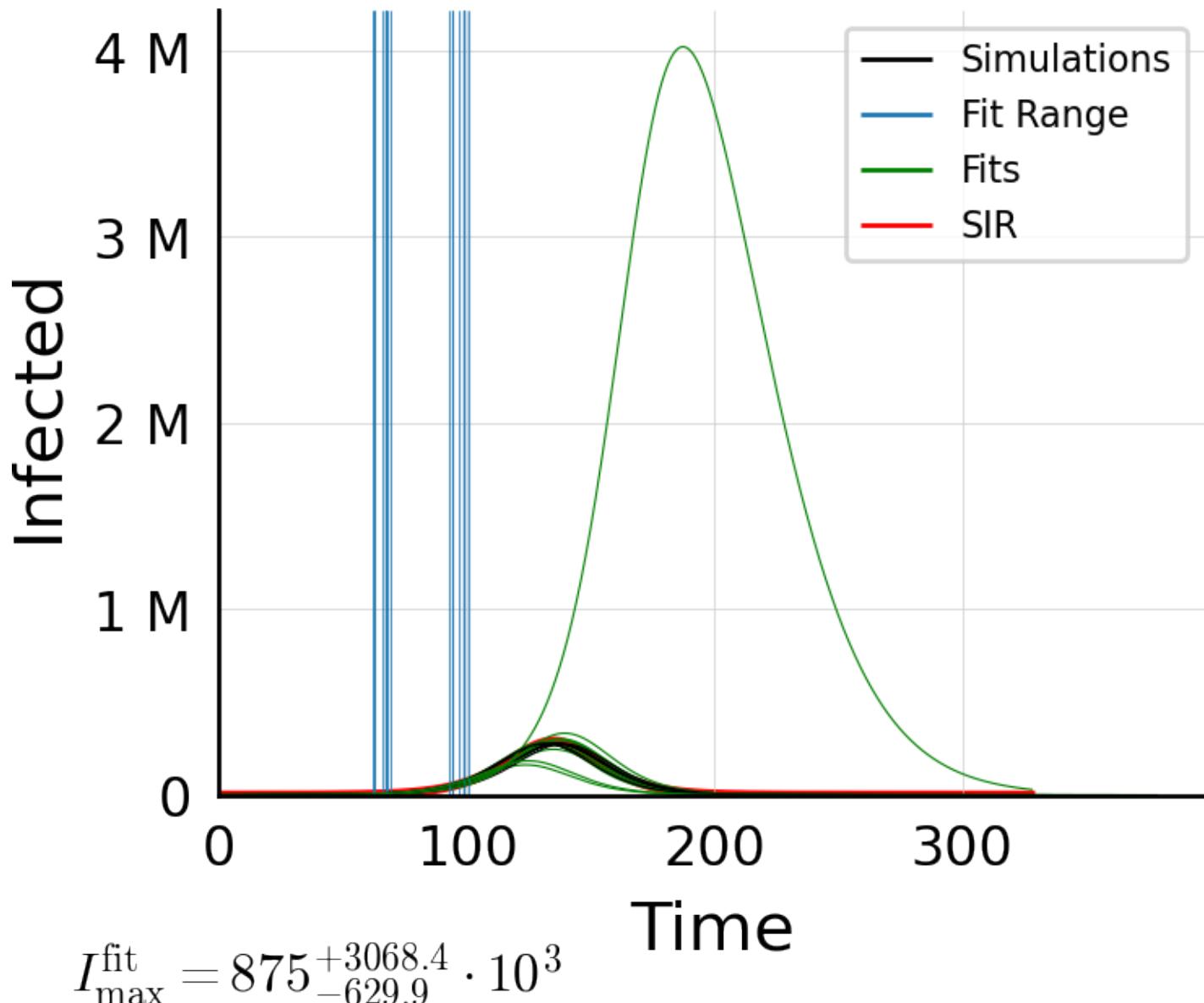
$N_{\text{tot}} = 500K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



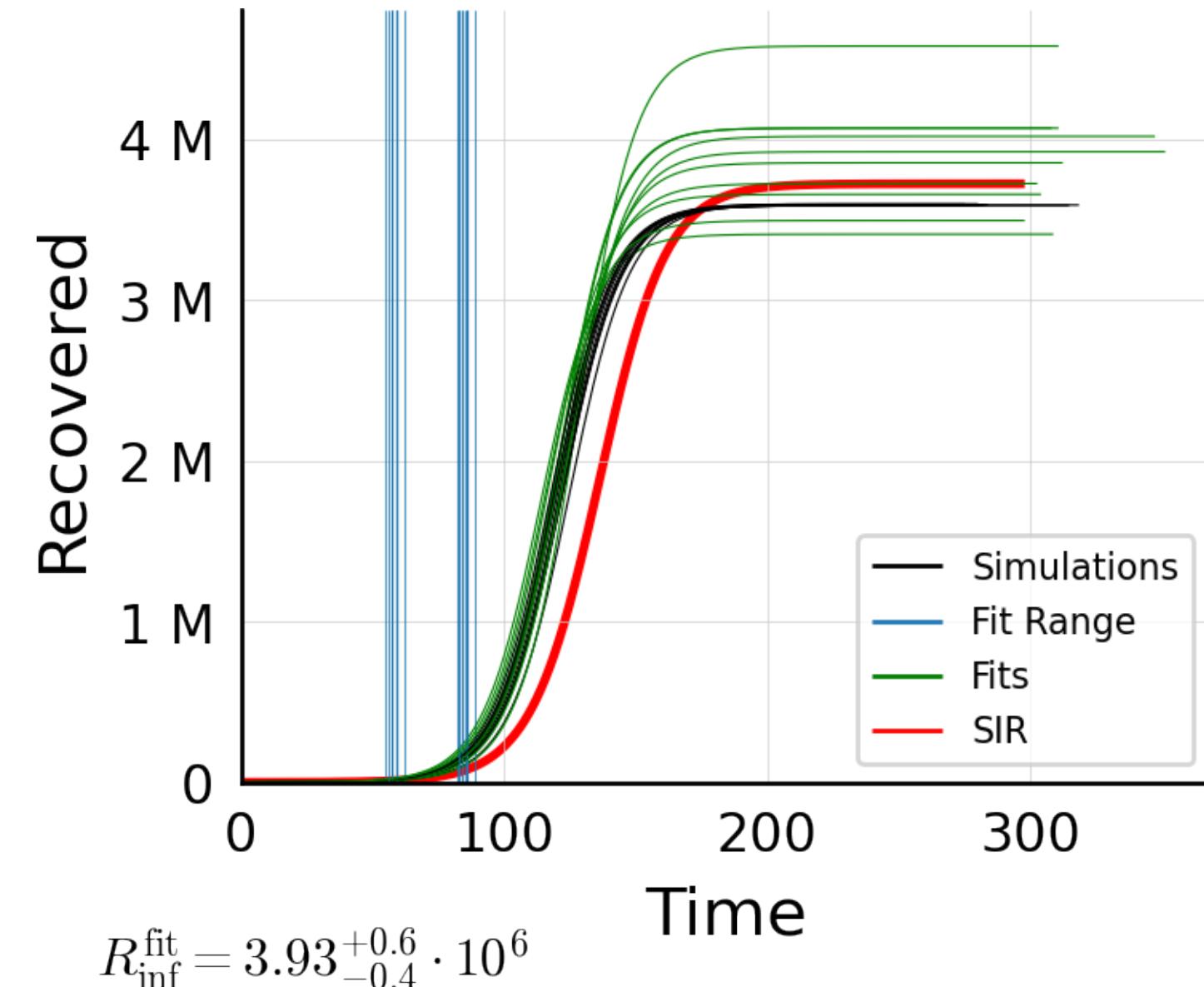
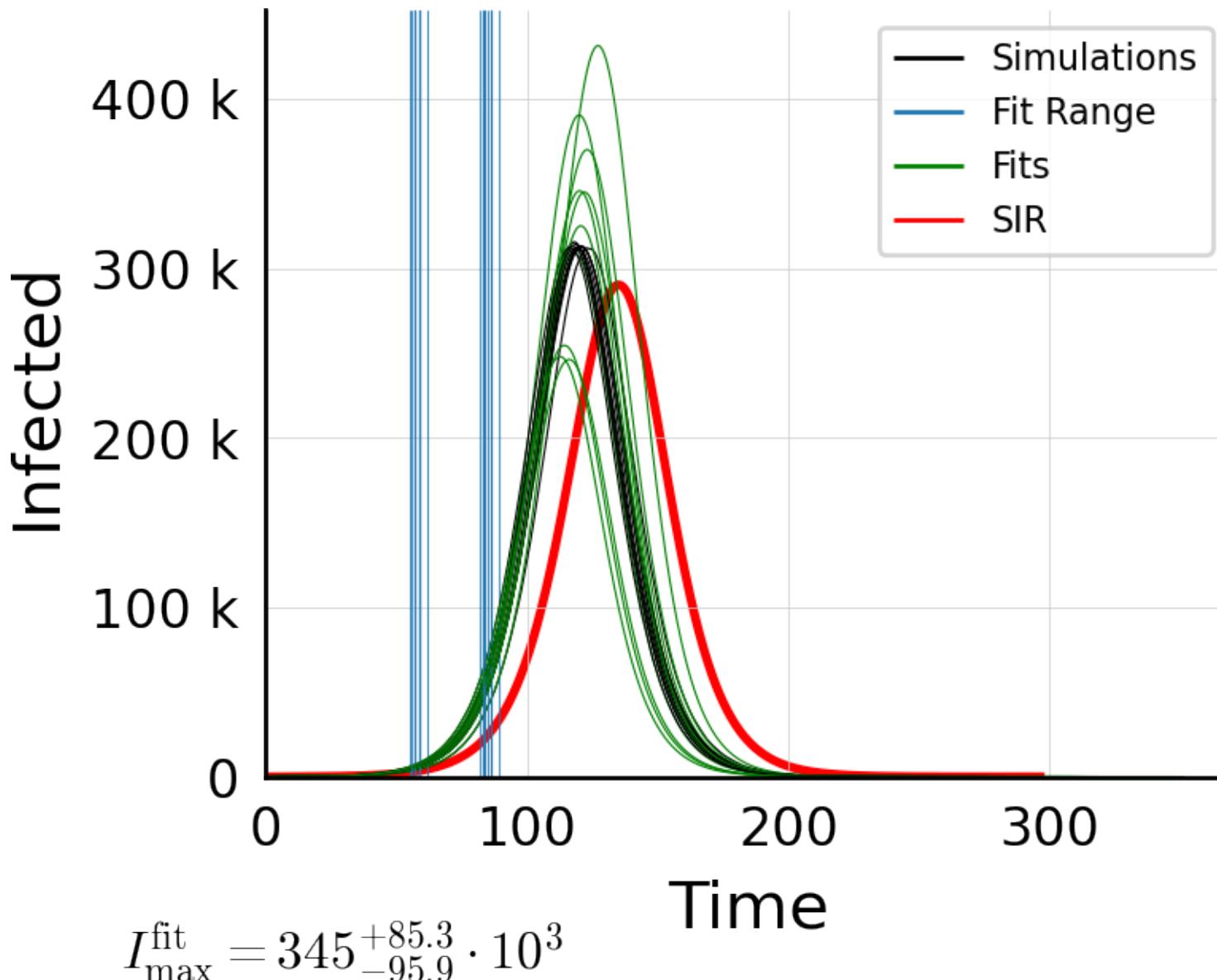
$N_{\text{tot}} = 500K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



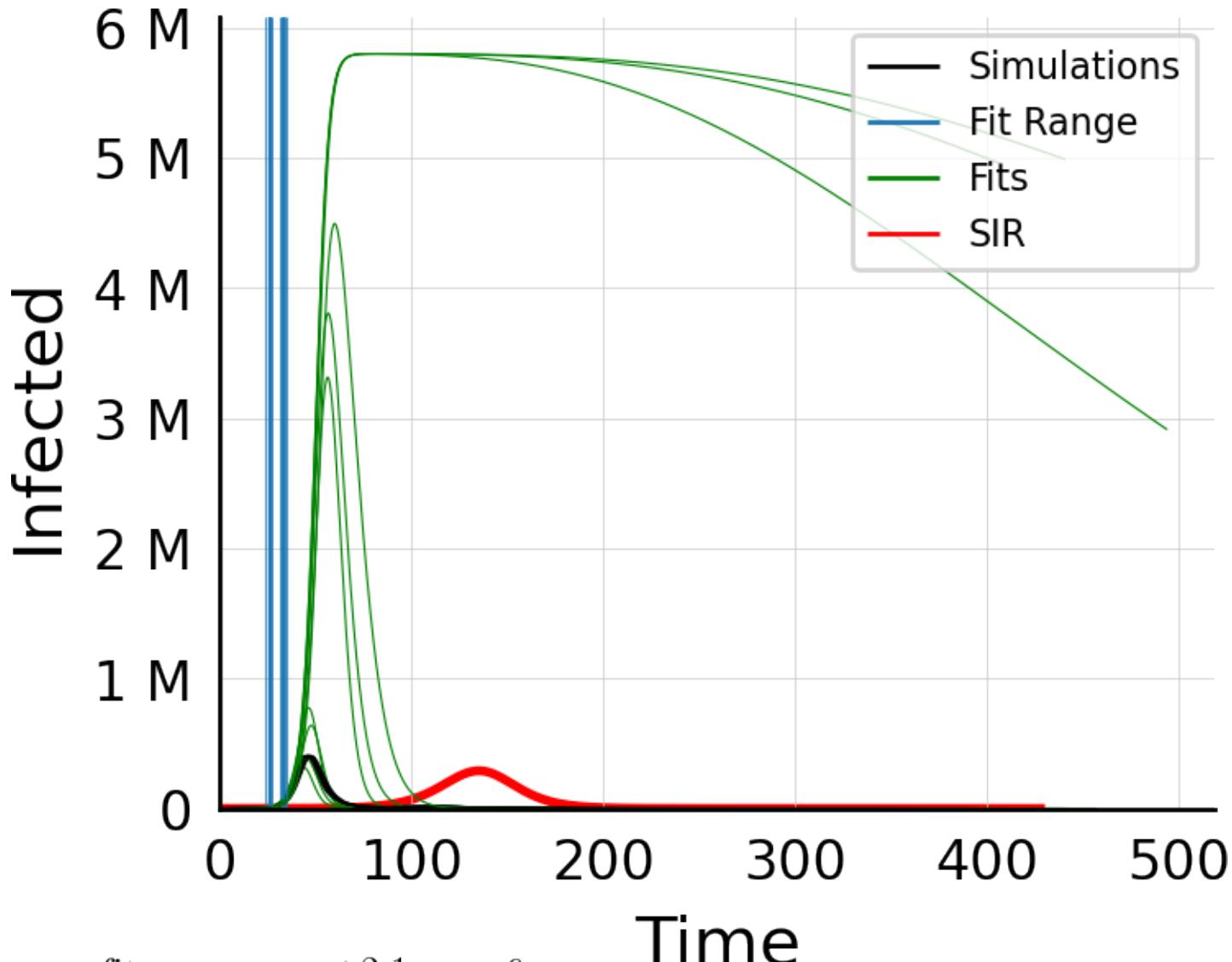
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



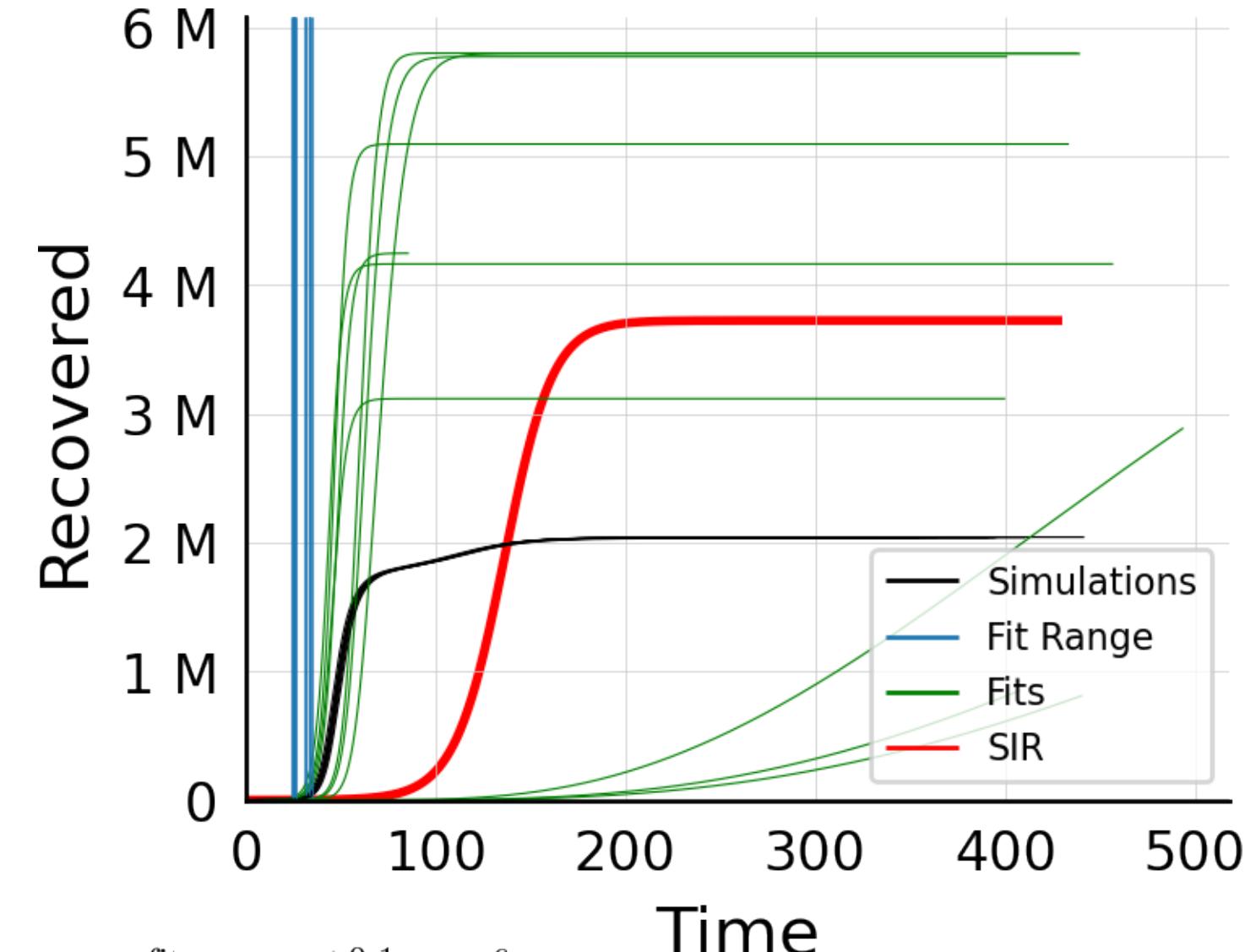
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 10.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10

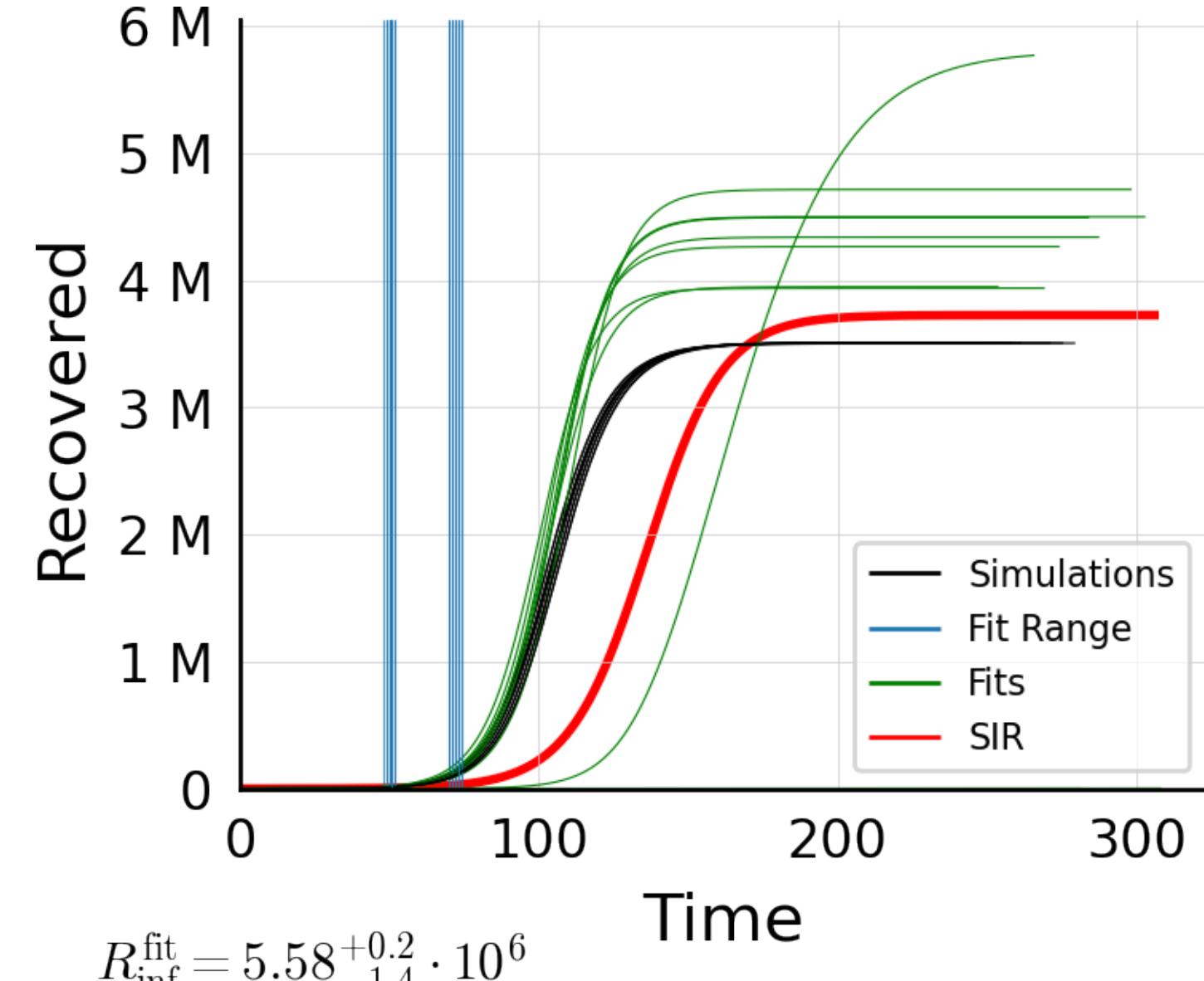
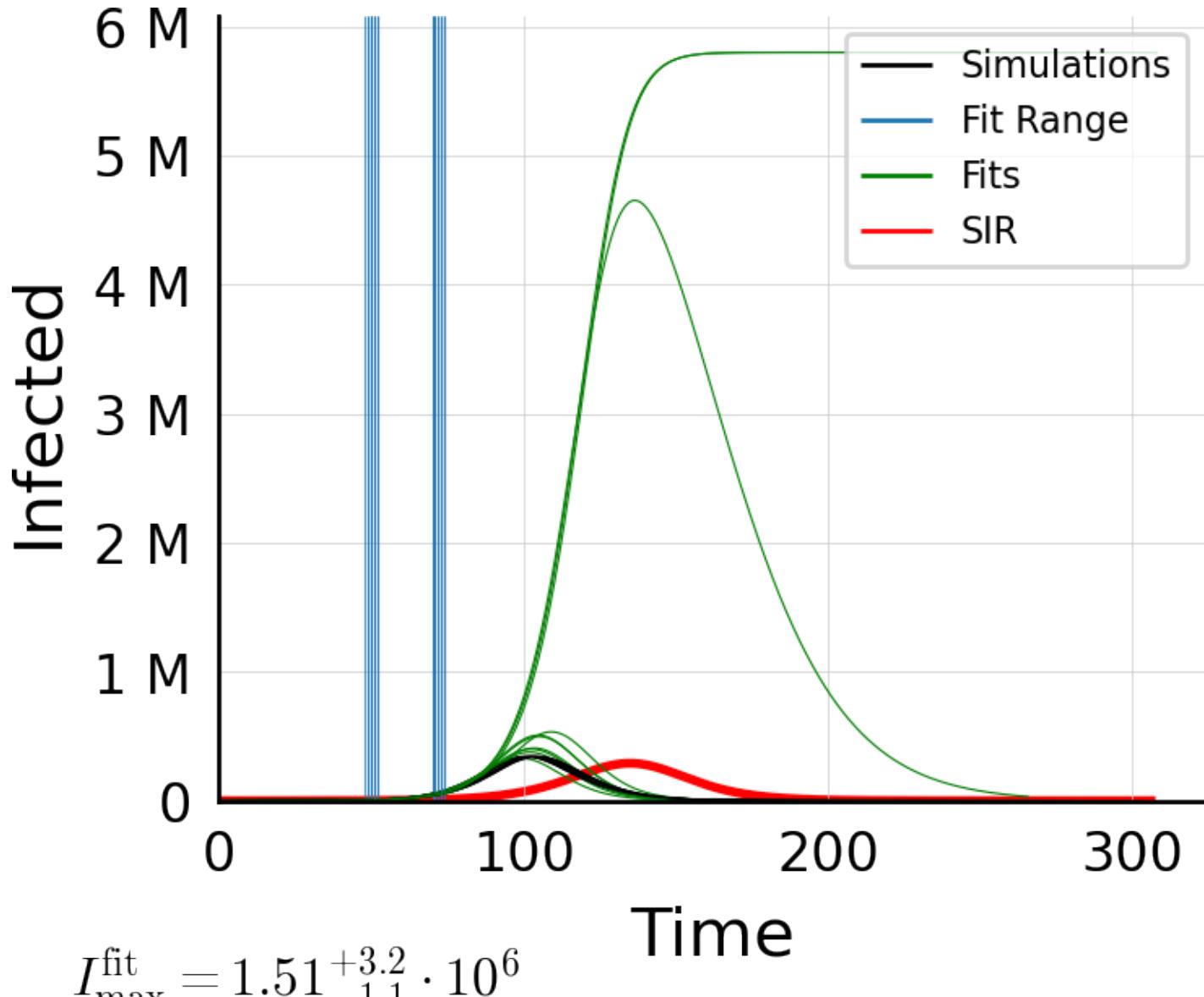


$$I_{\text{max}}^{\text{fit}} = 3.33^{+2.1}_{-2.9} \cdot 10^6$$

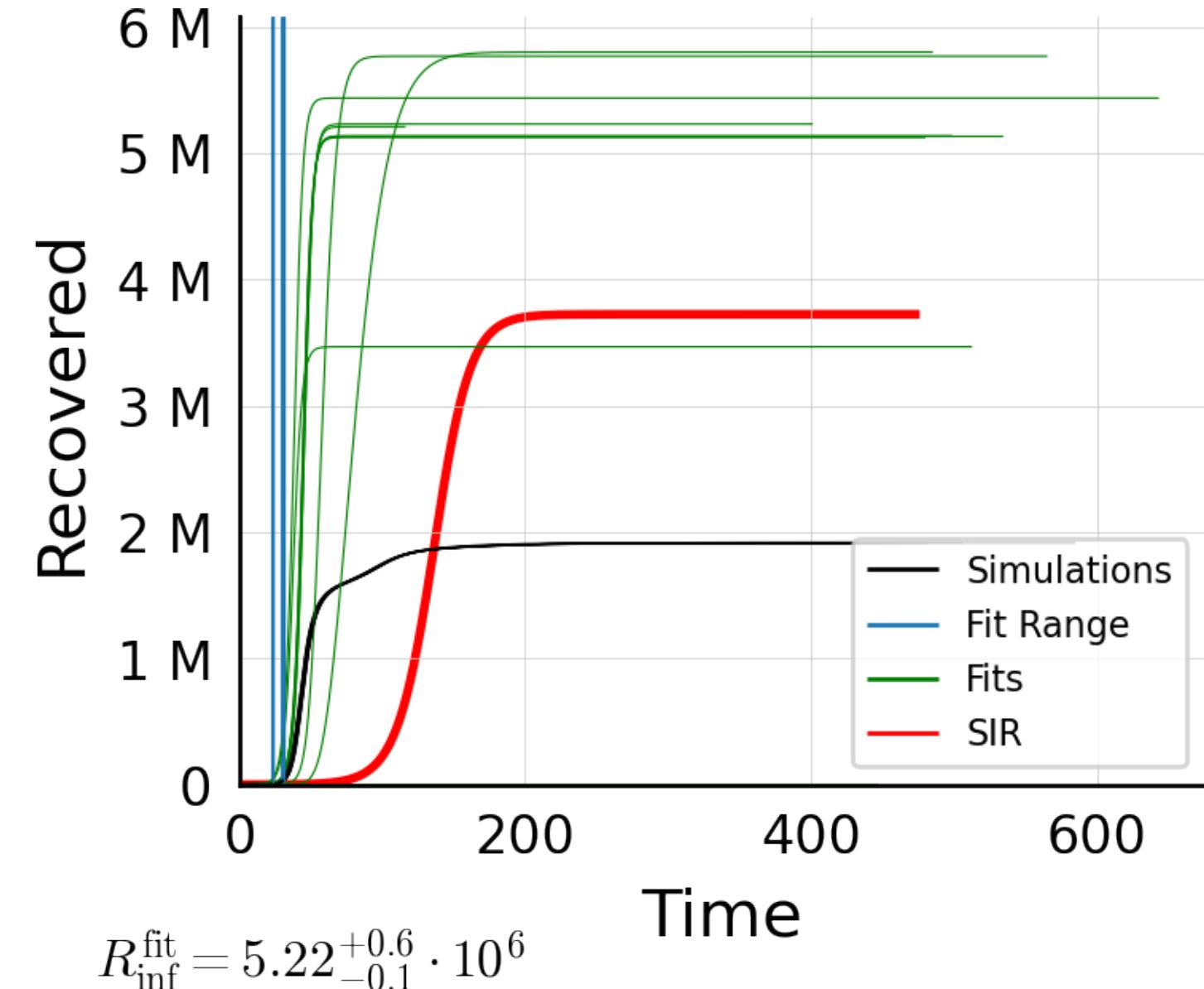
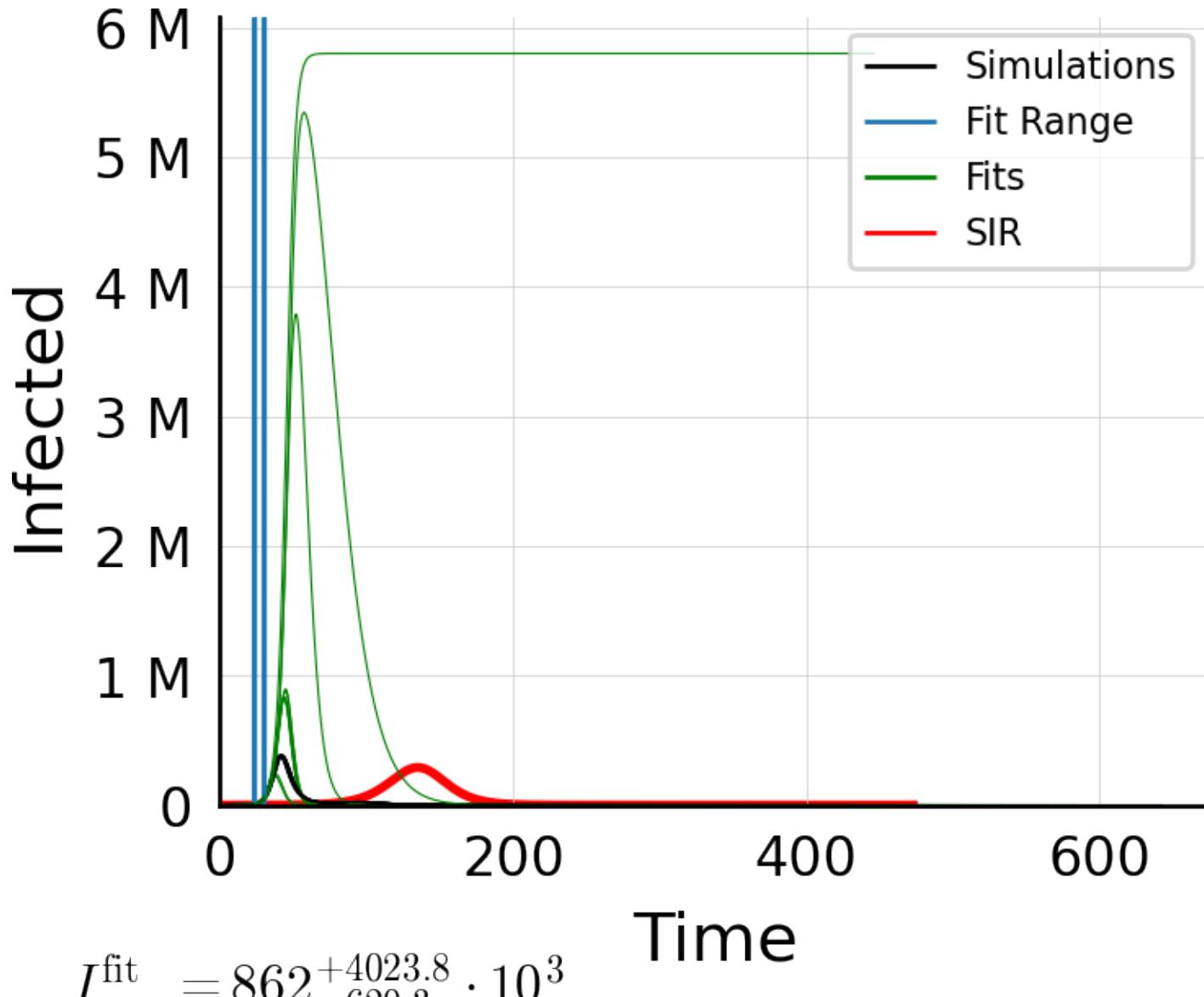


$$R_{\text{inf}}^{\text{fit}} = 5.7^{+0.1}_{-1.5} \cdot 10^6$$

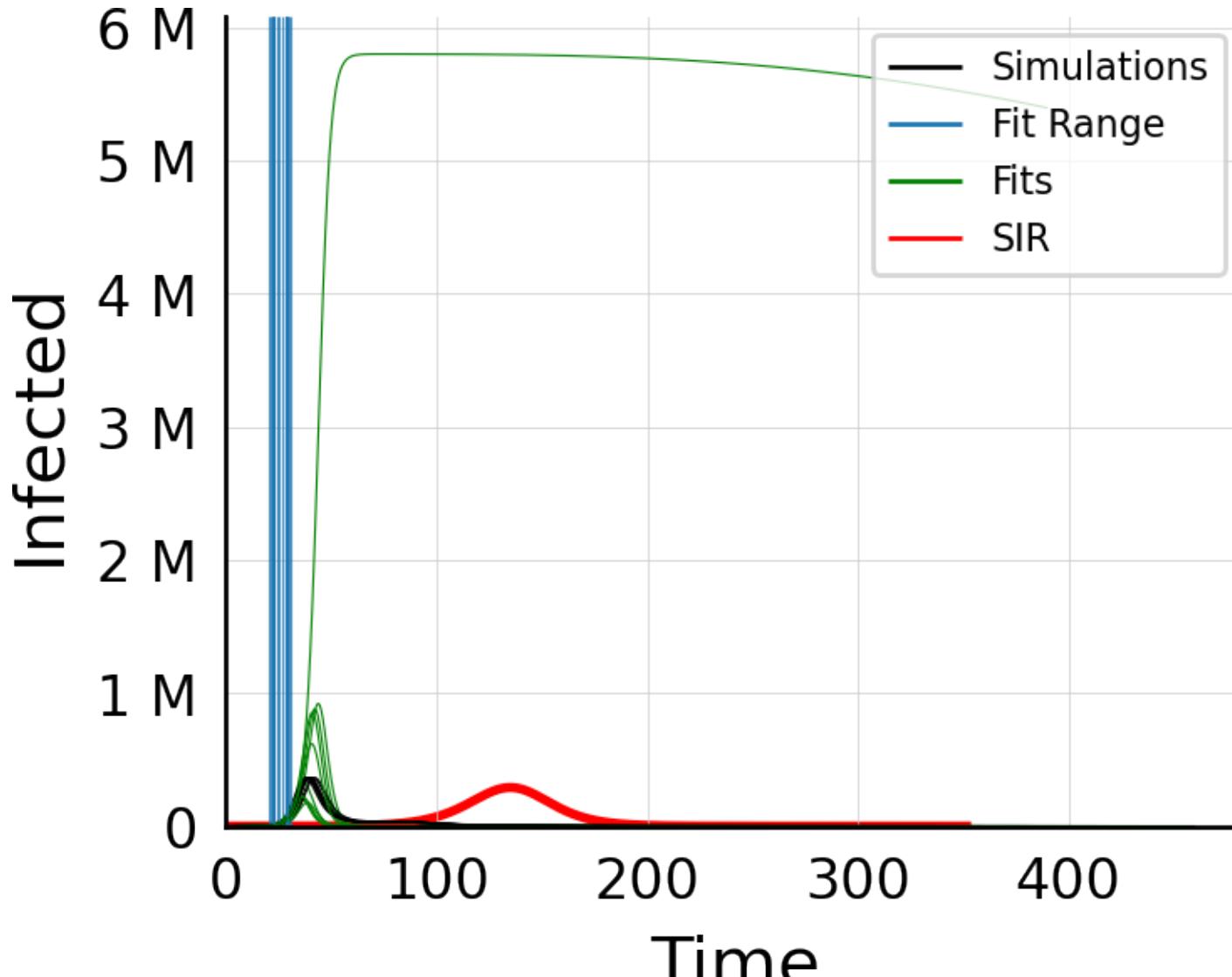
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 15.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



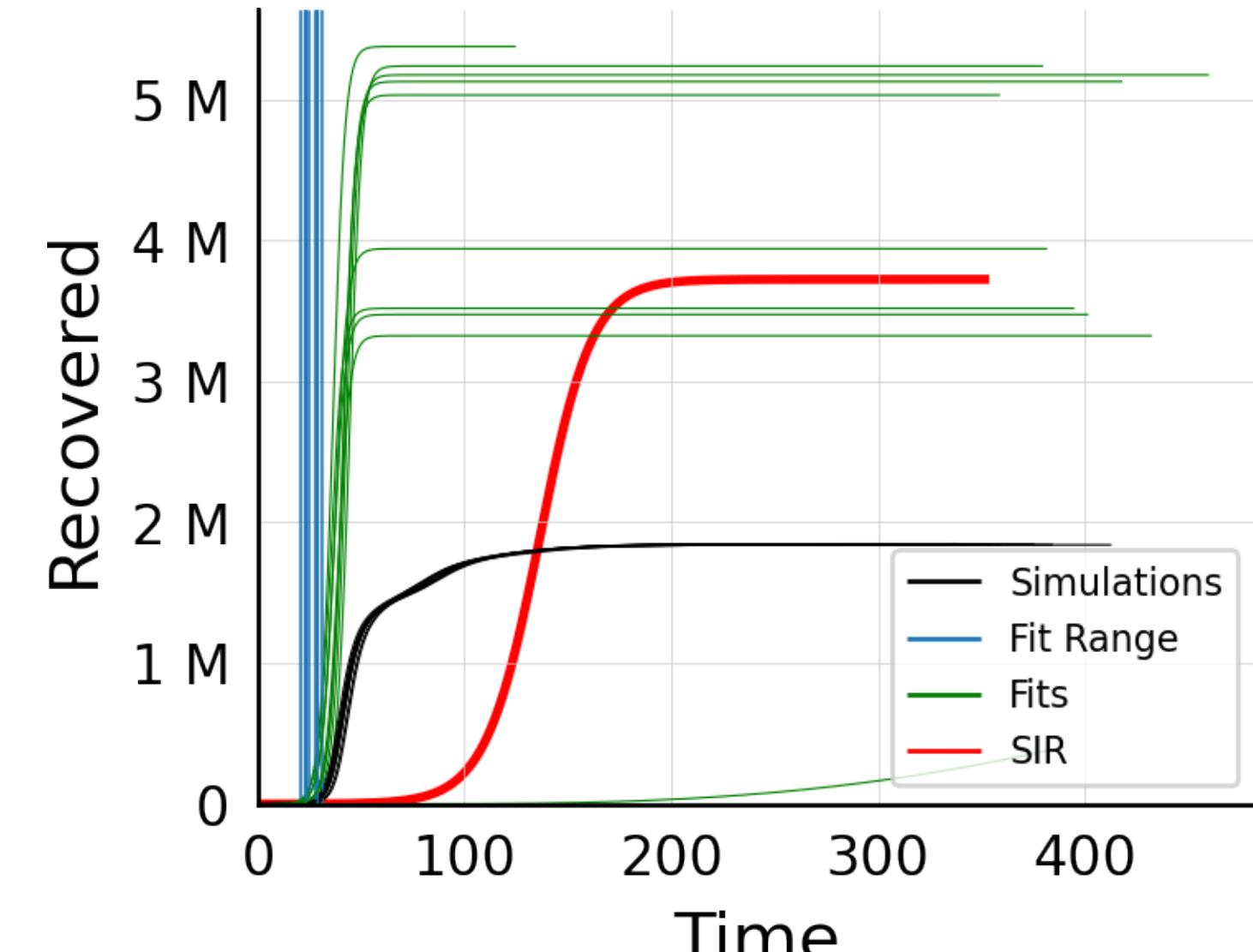
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 150.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 200.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10

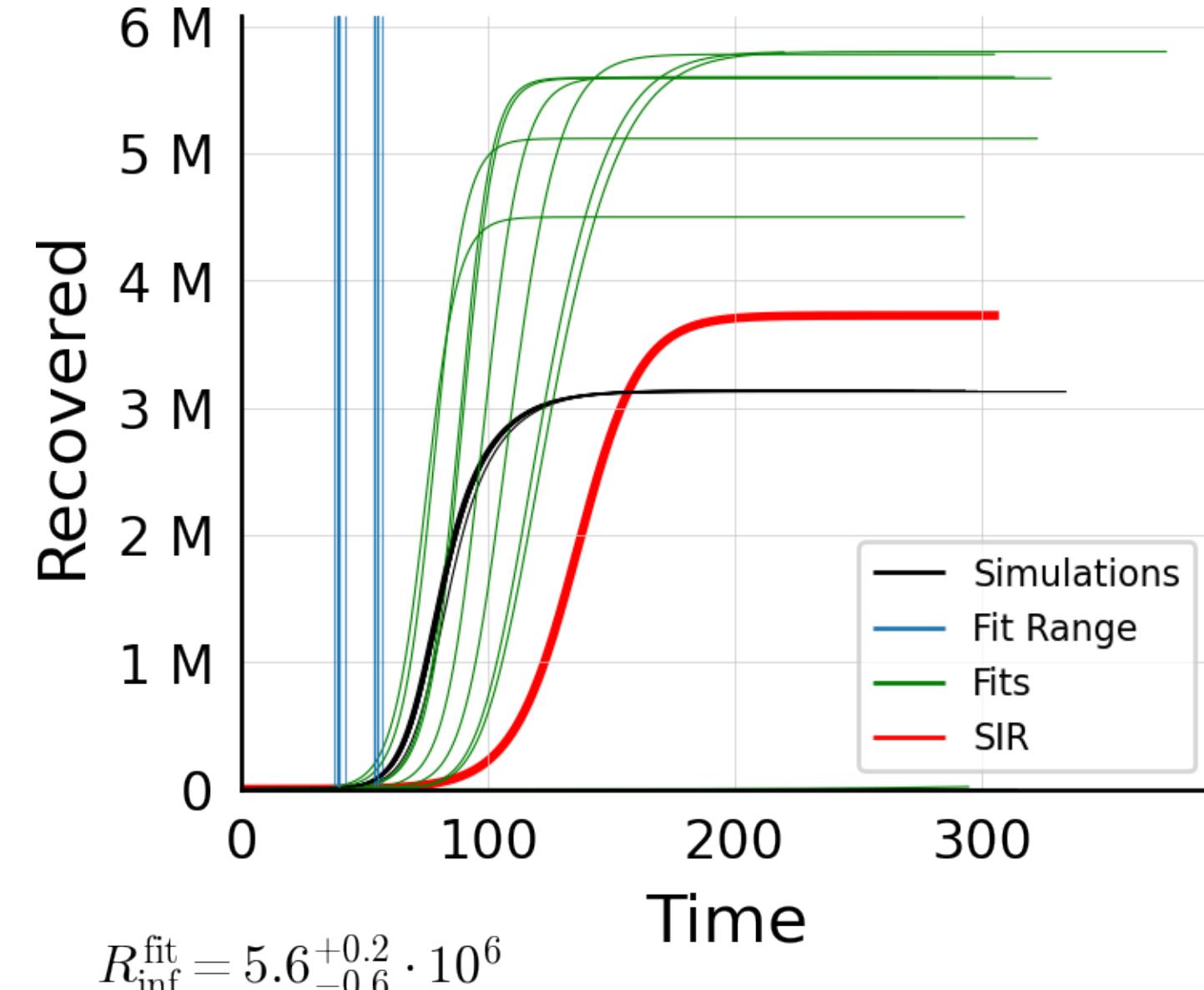
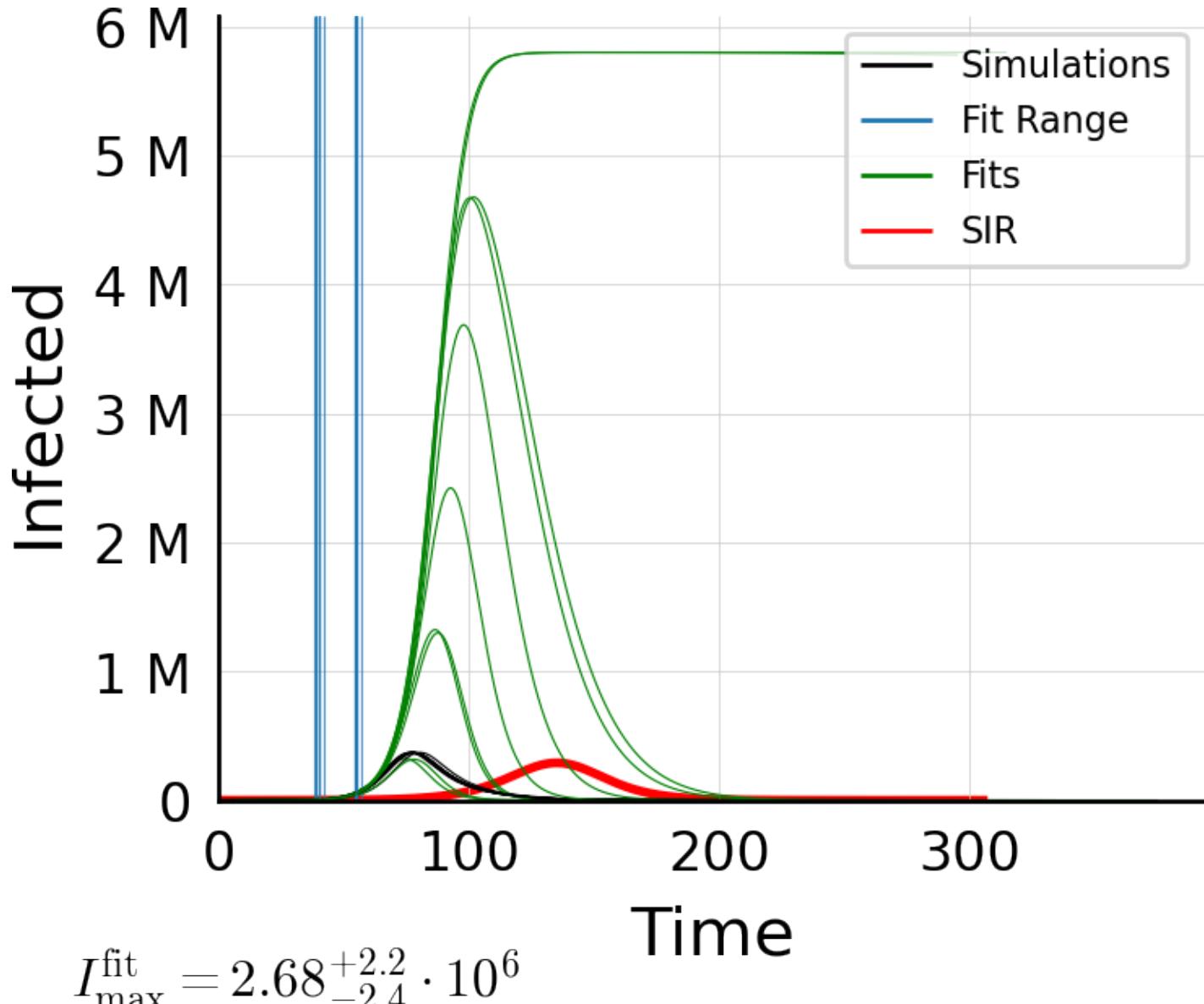


$$I_{\text{max}}^{\text{fit}} = 465^{+453.5}_{-268.6} \cdot 10^3$$

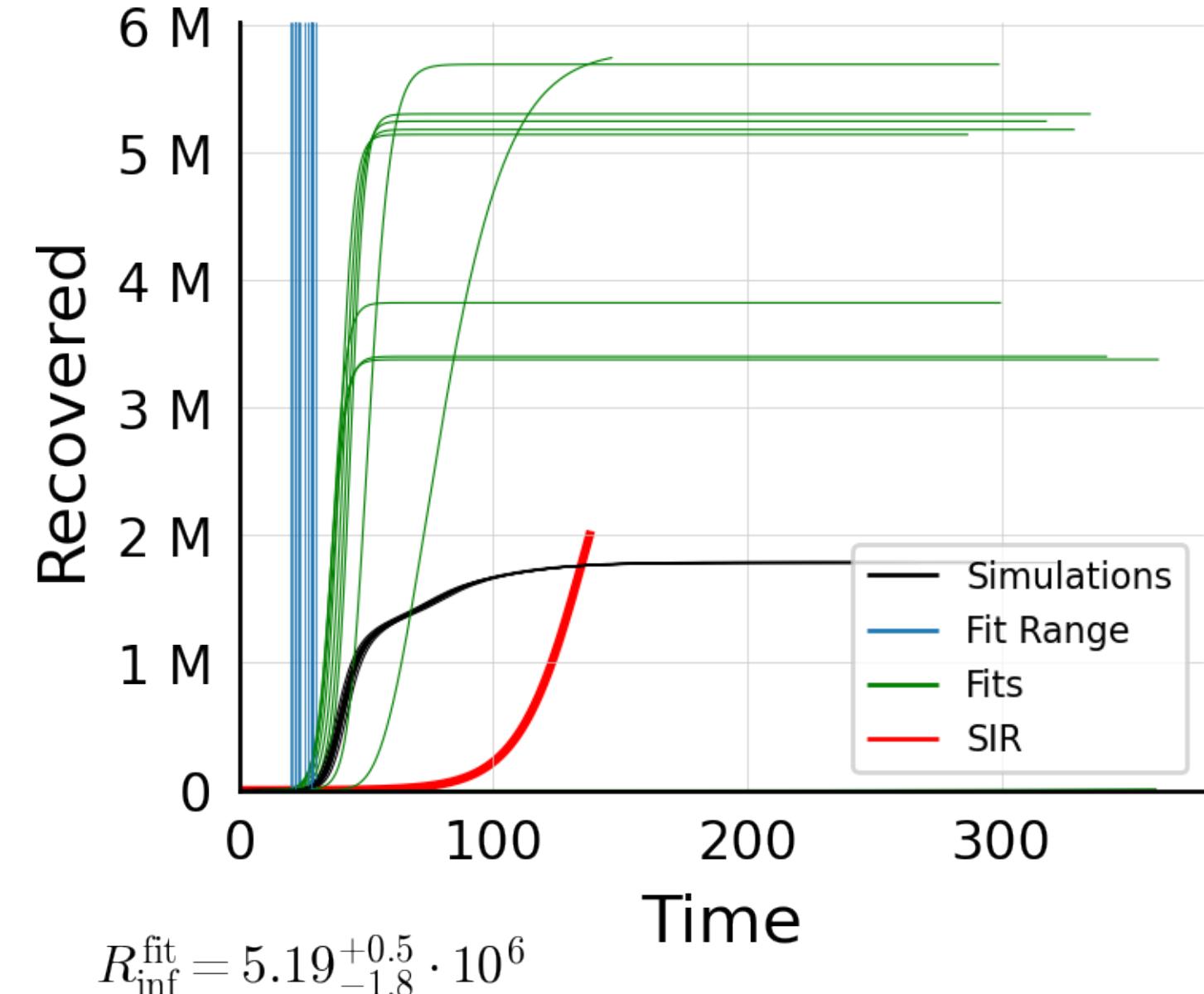
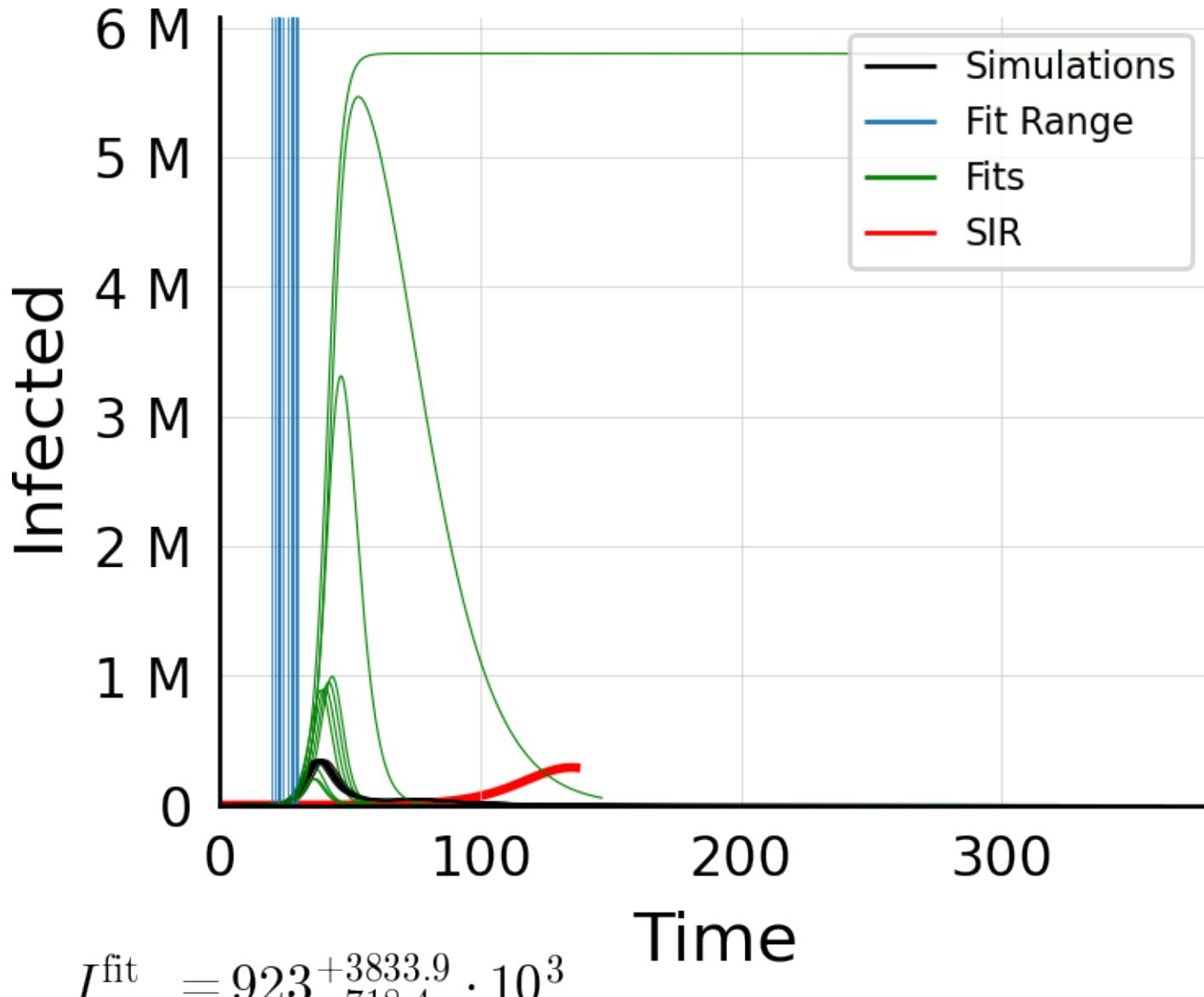


$$R_{\text{inf}}^{\text{fit}} = 5.03^{+0.2}_{-1.6} \cdot 10^6$$

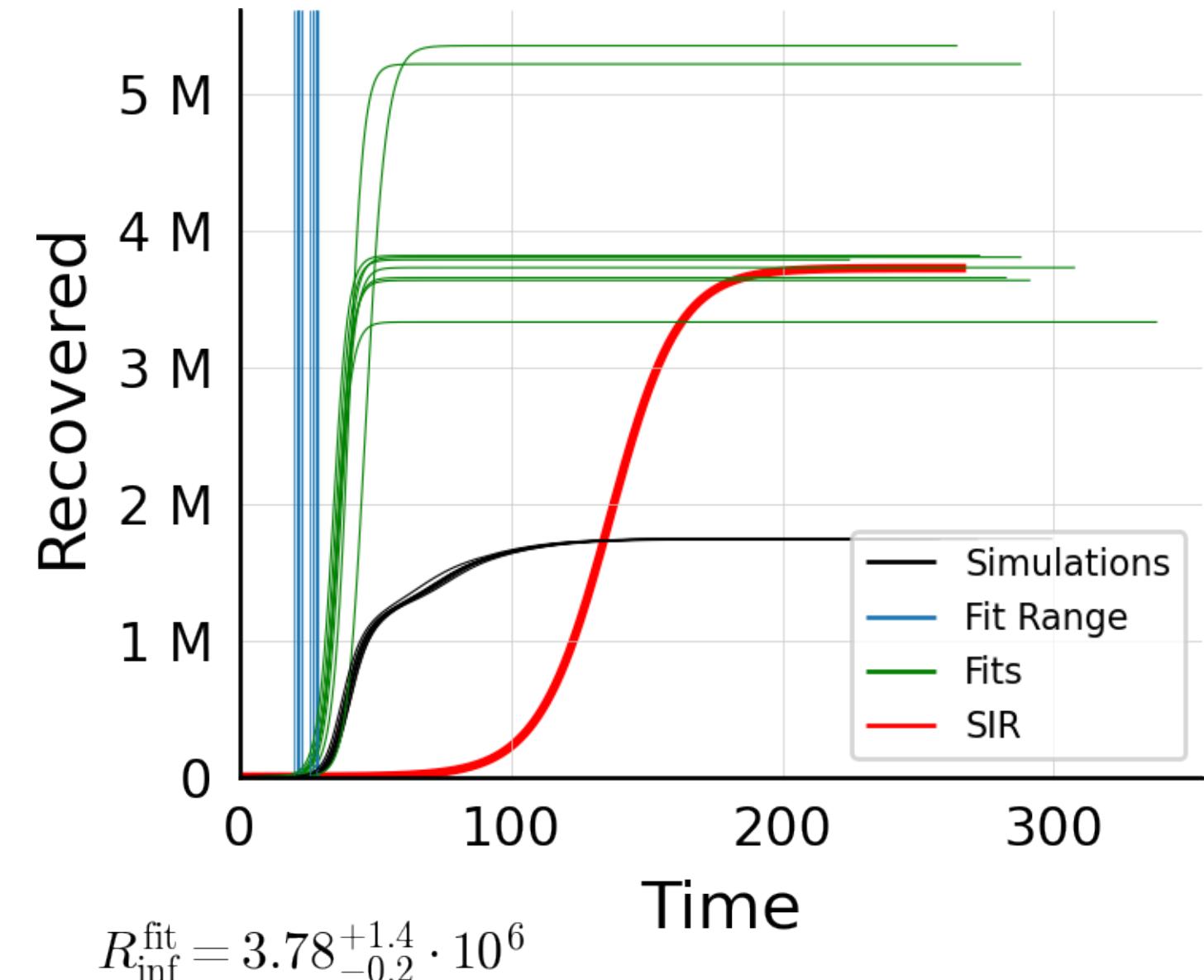
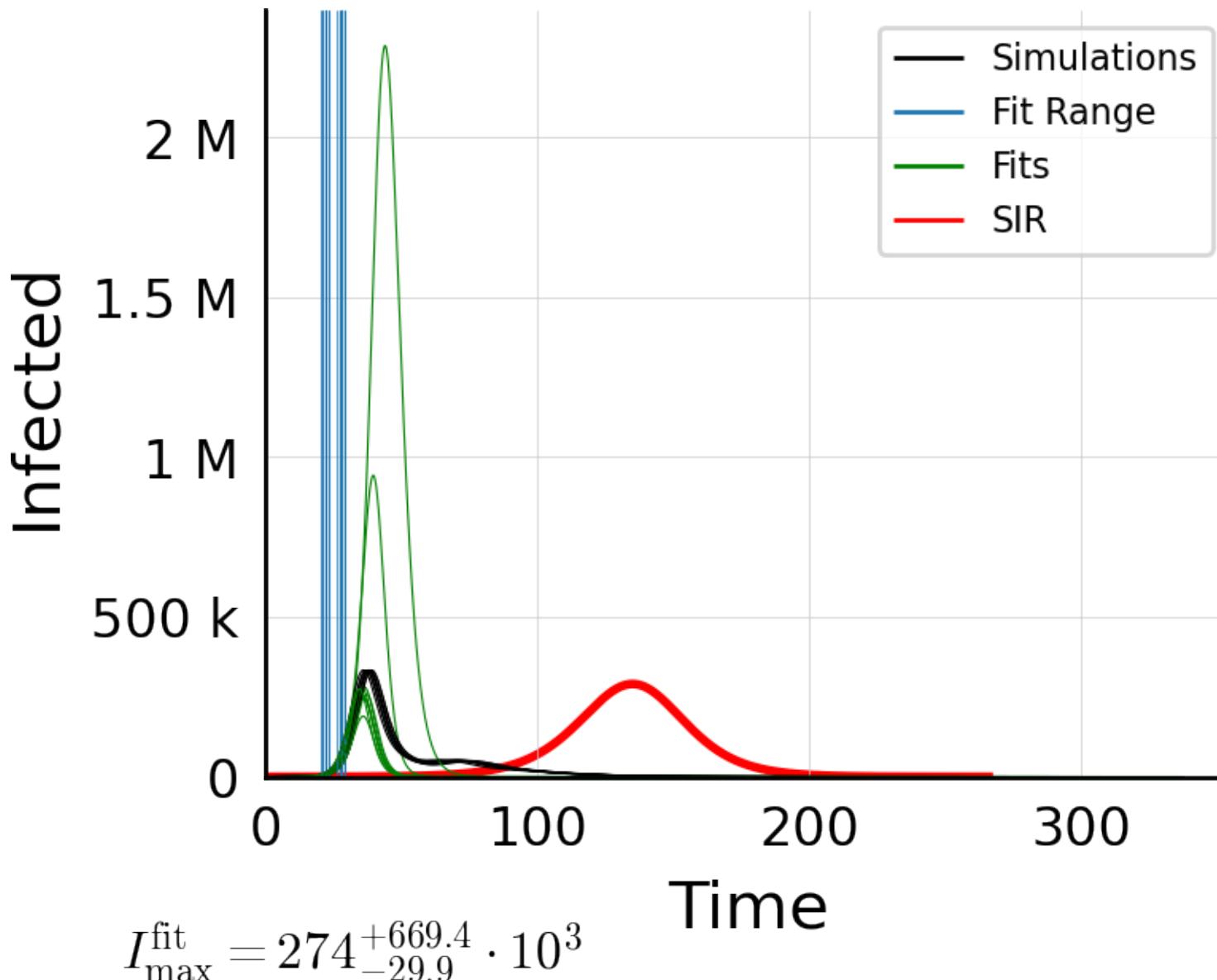
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 25.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



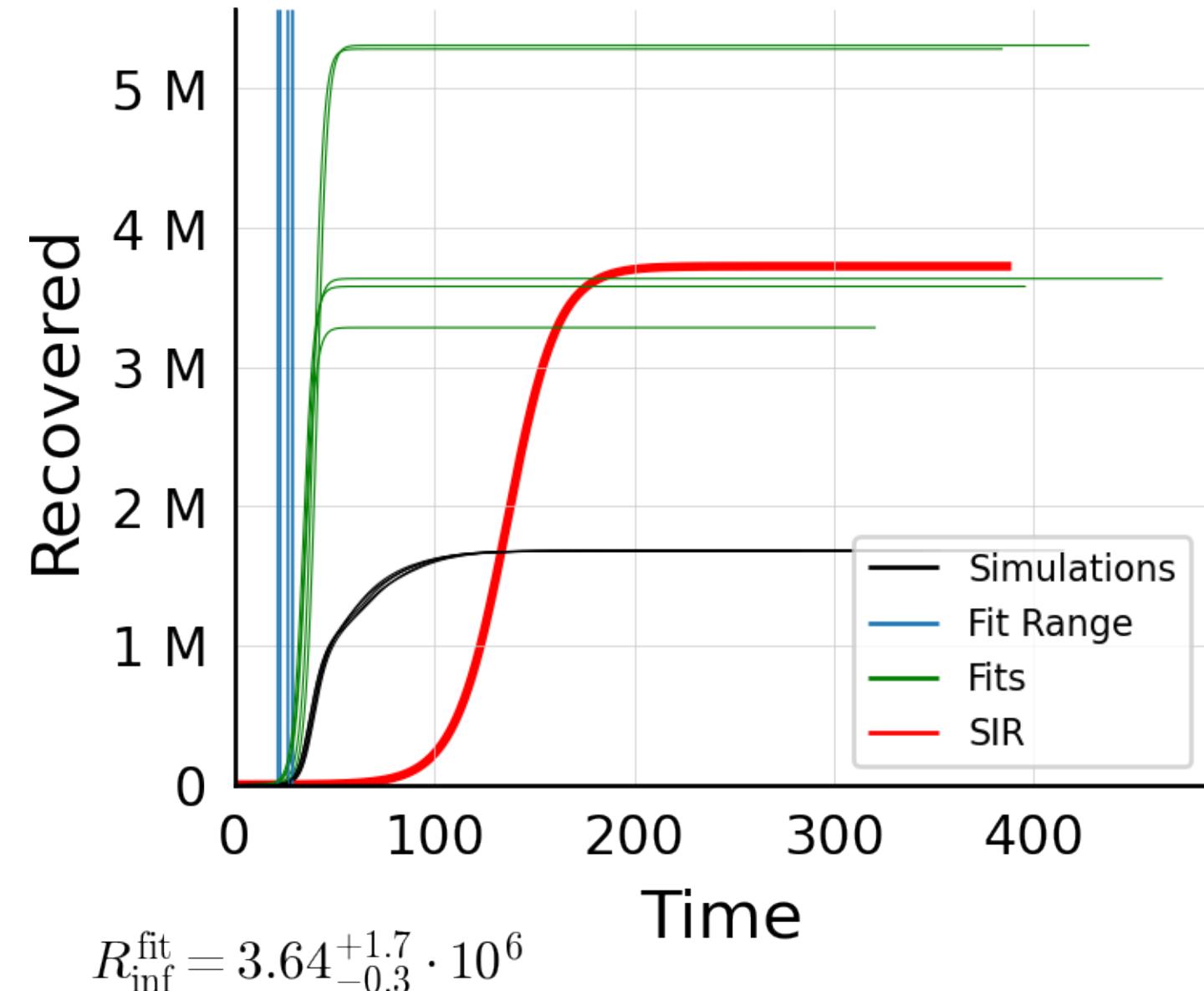
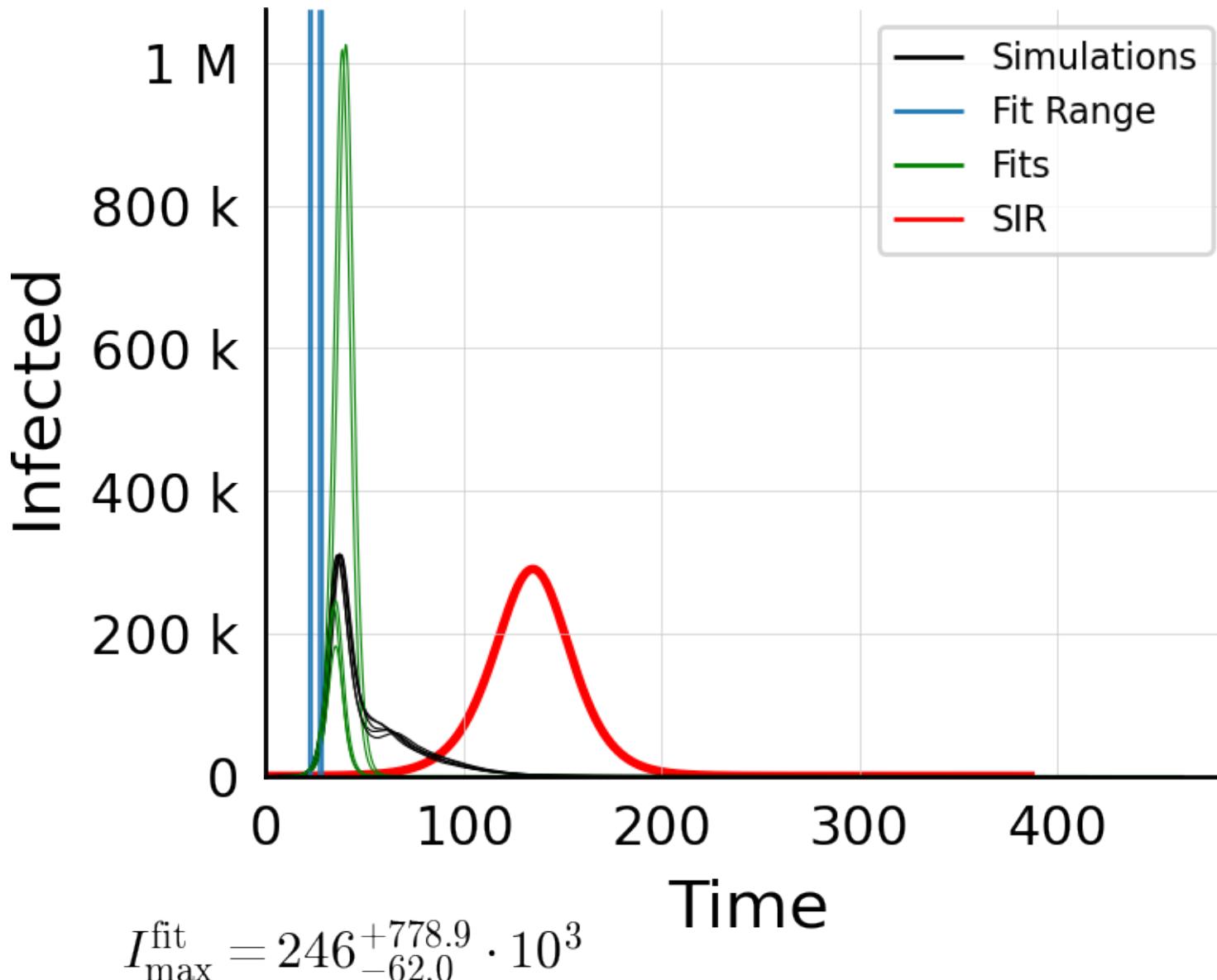
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 250.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



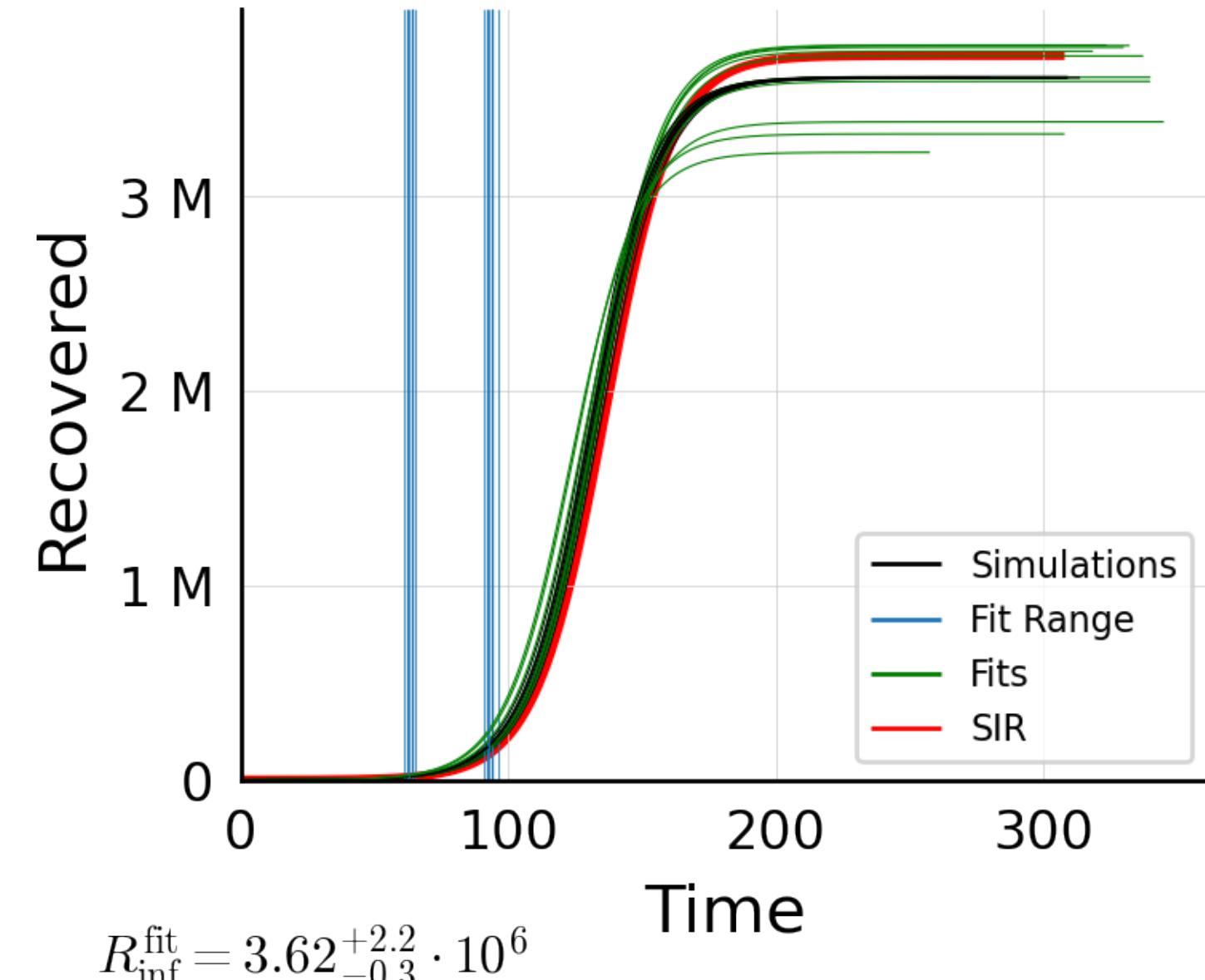
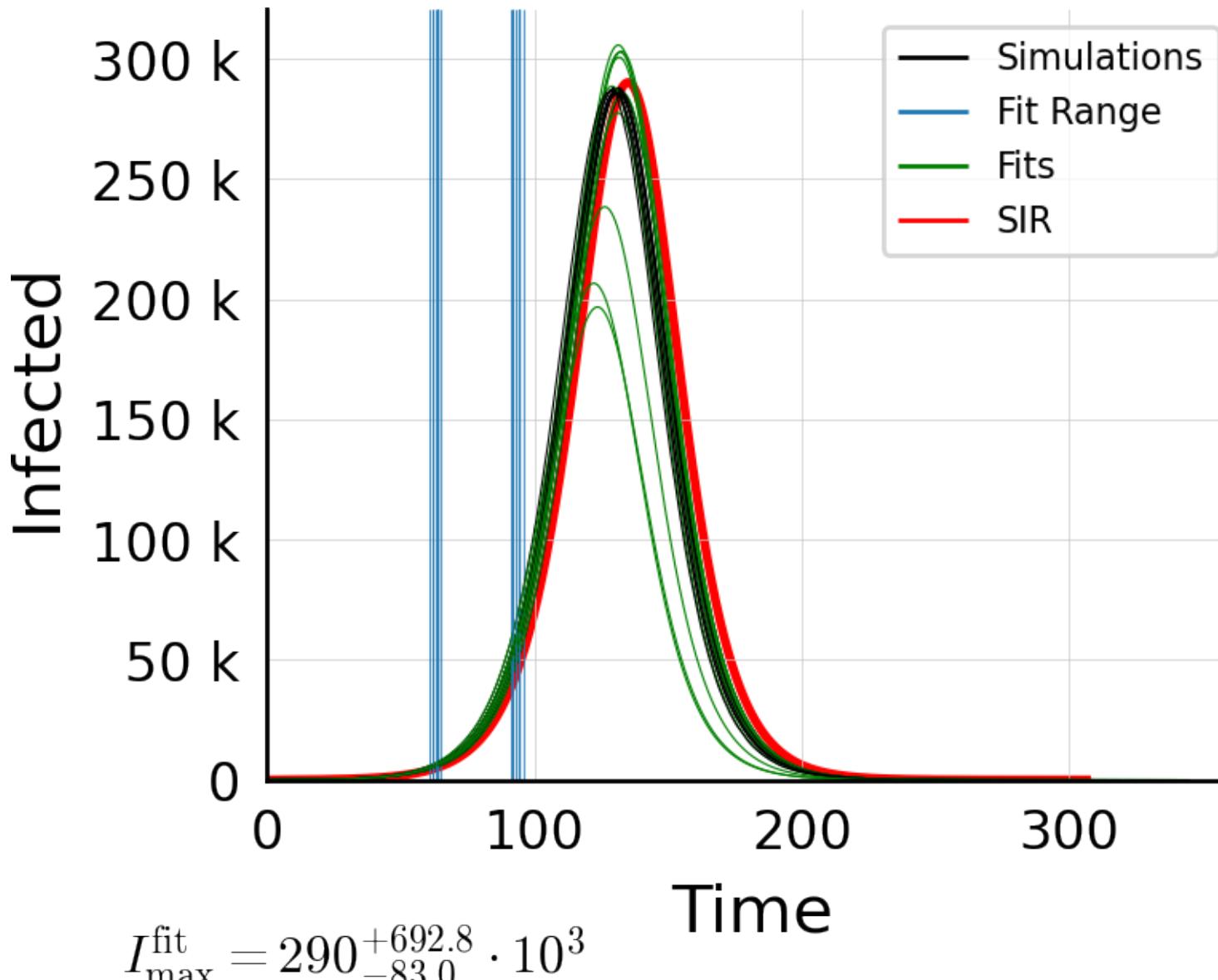
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 300.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #9



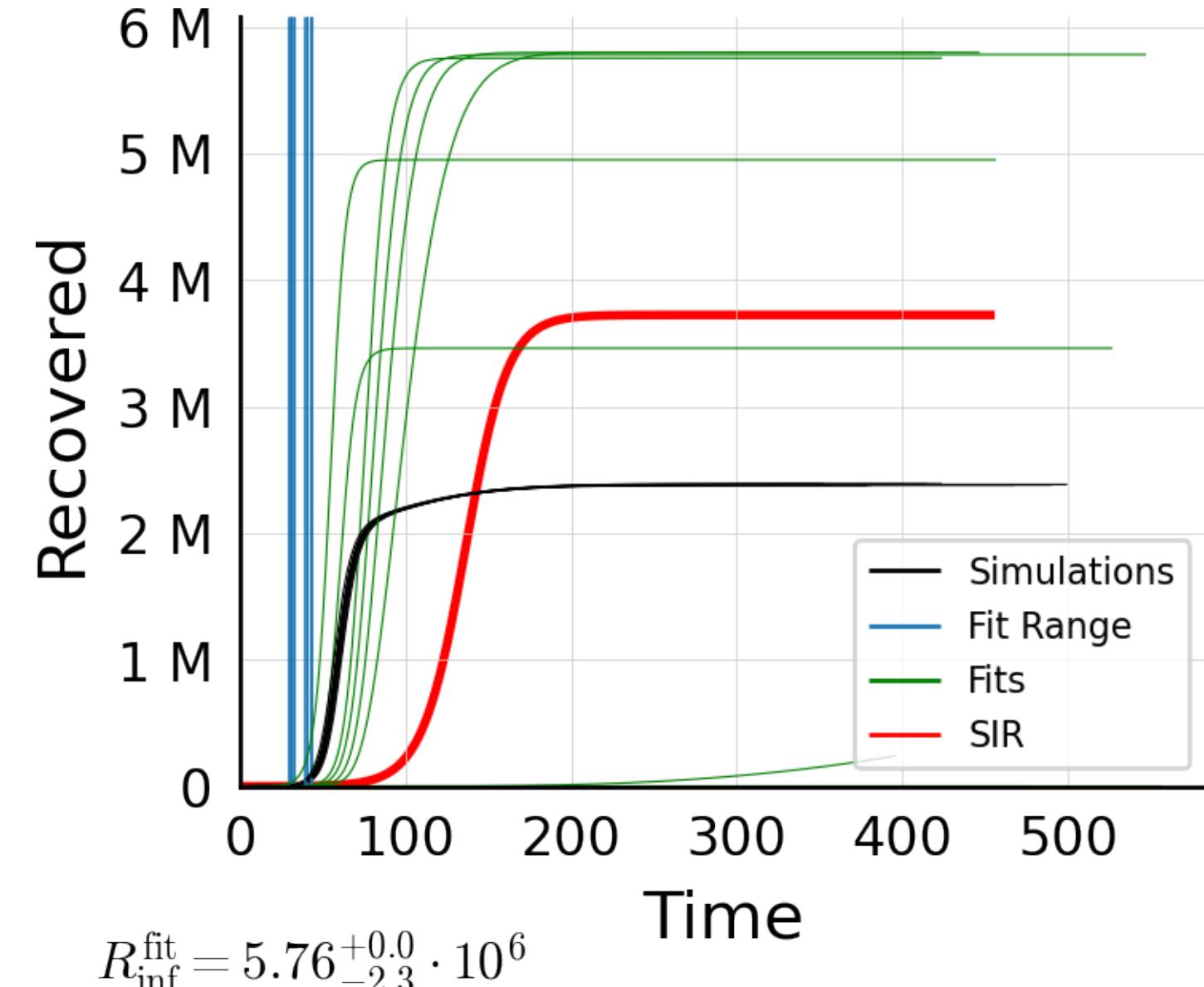
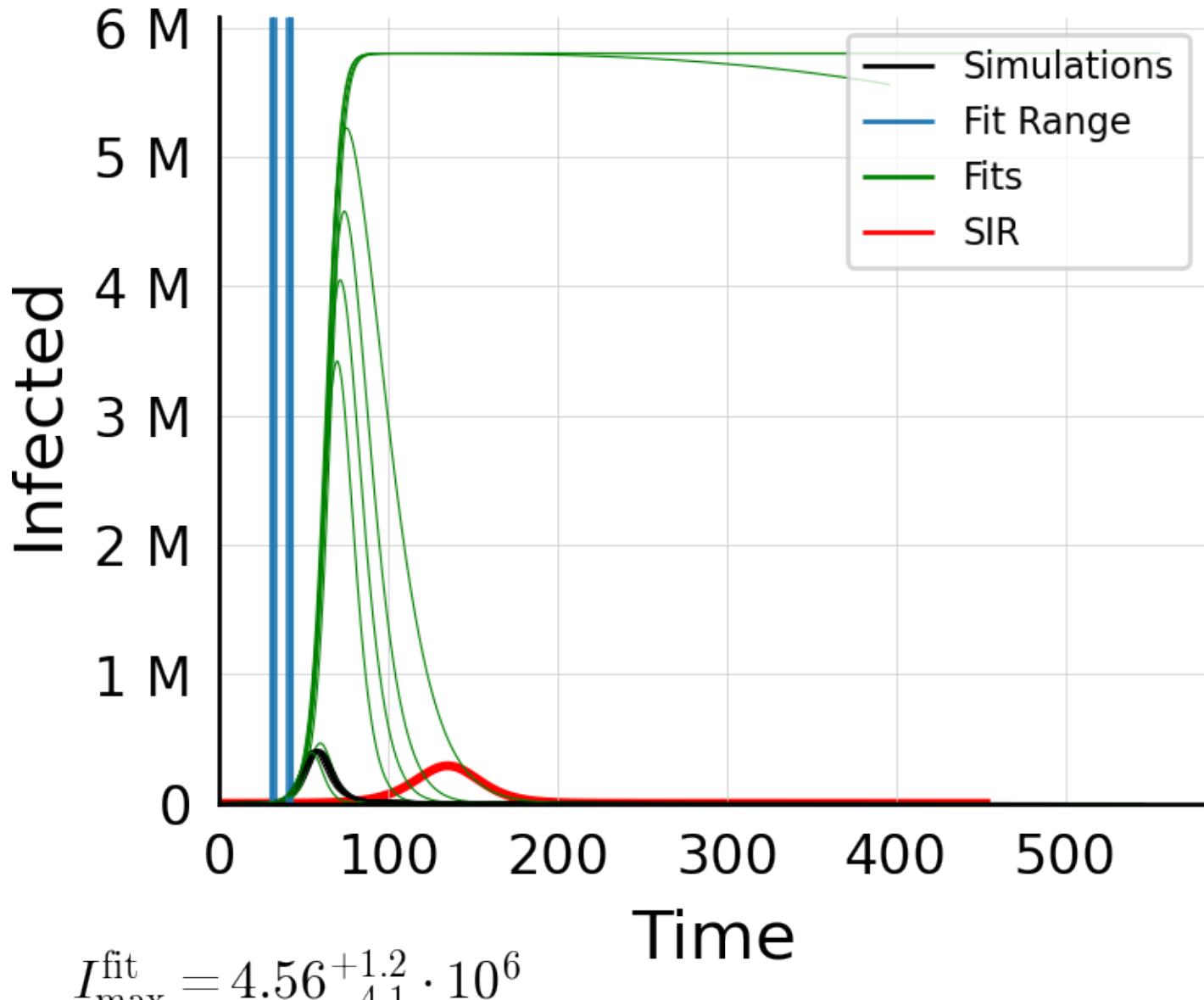
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 400.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #5



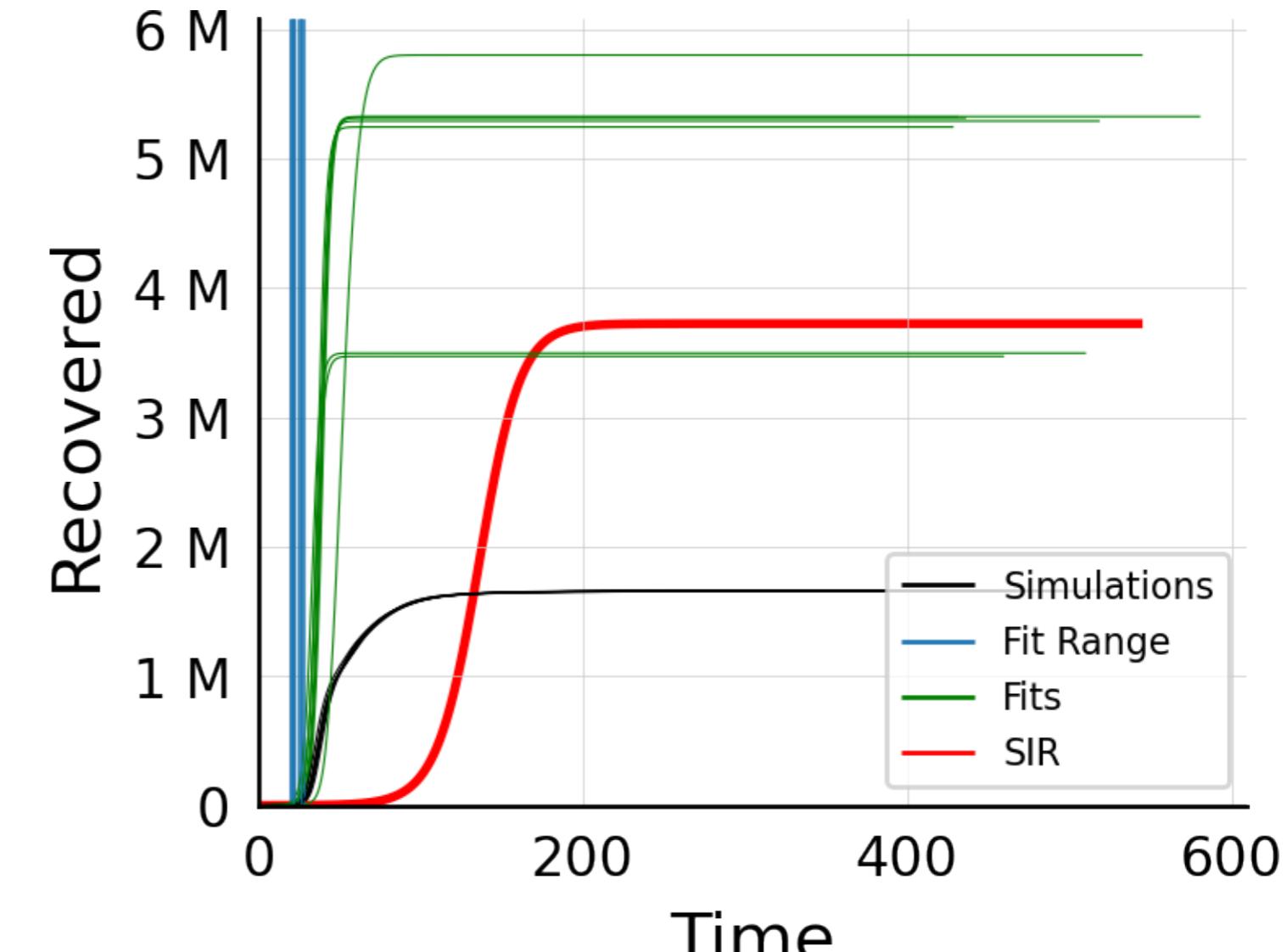
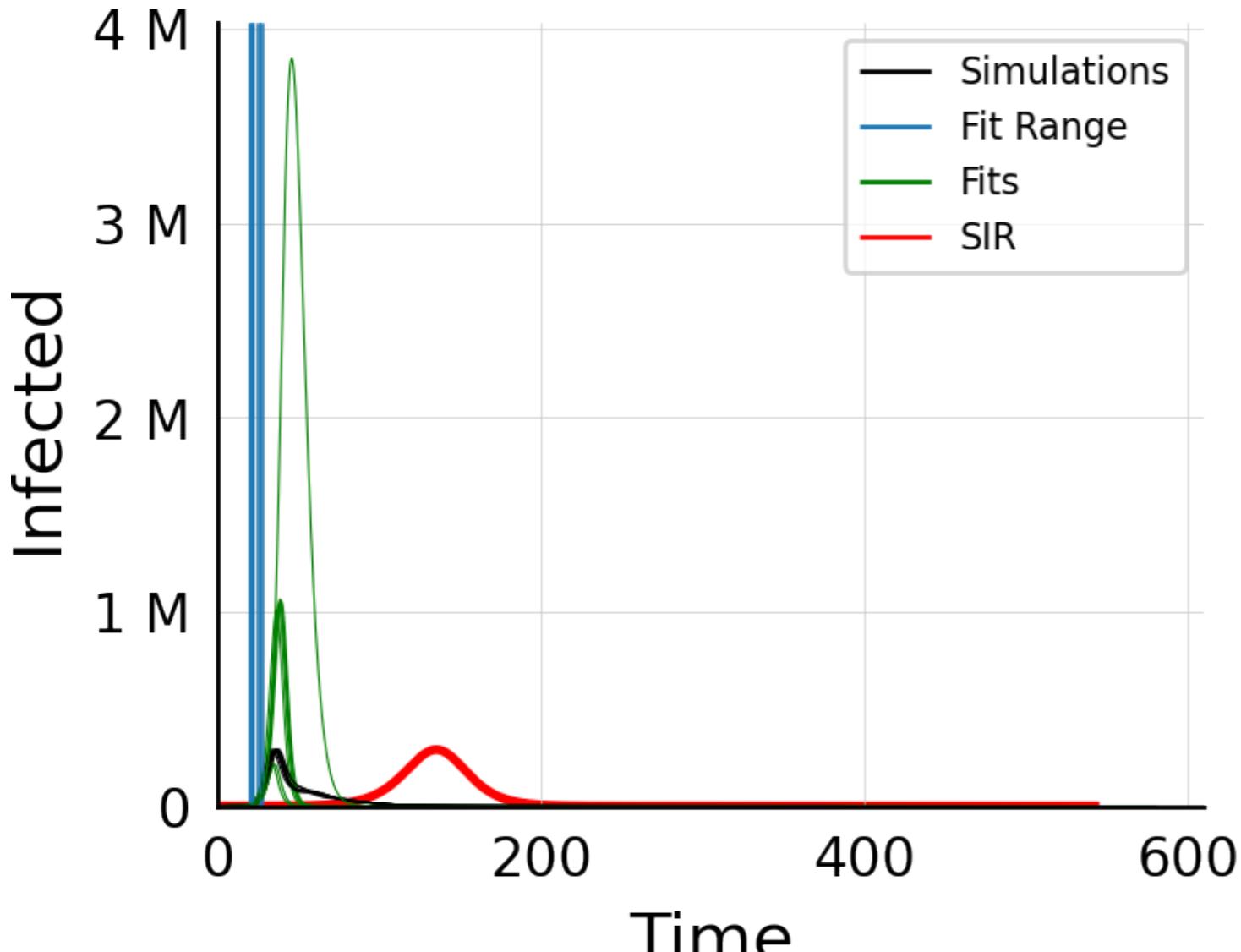
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 5.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



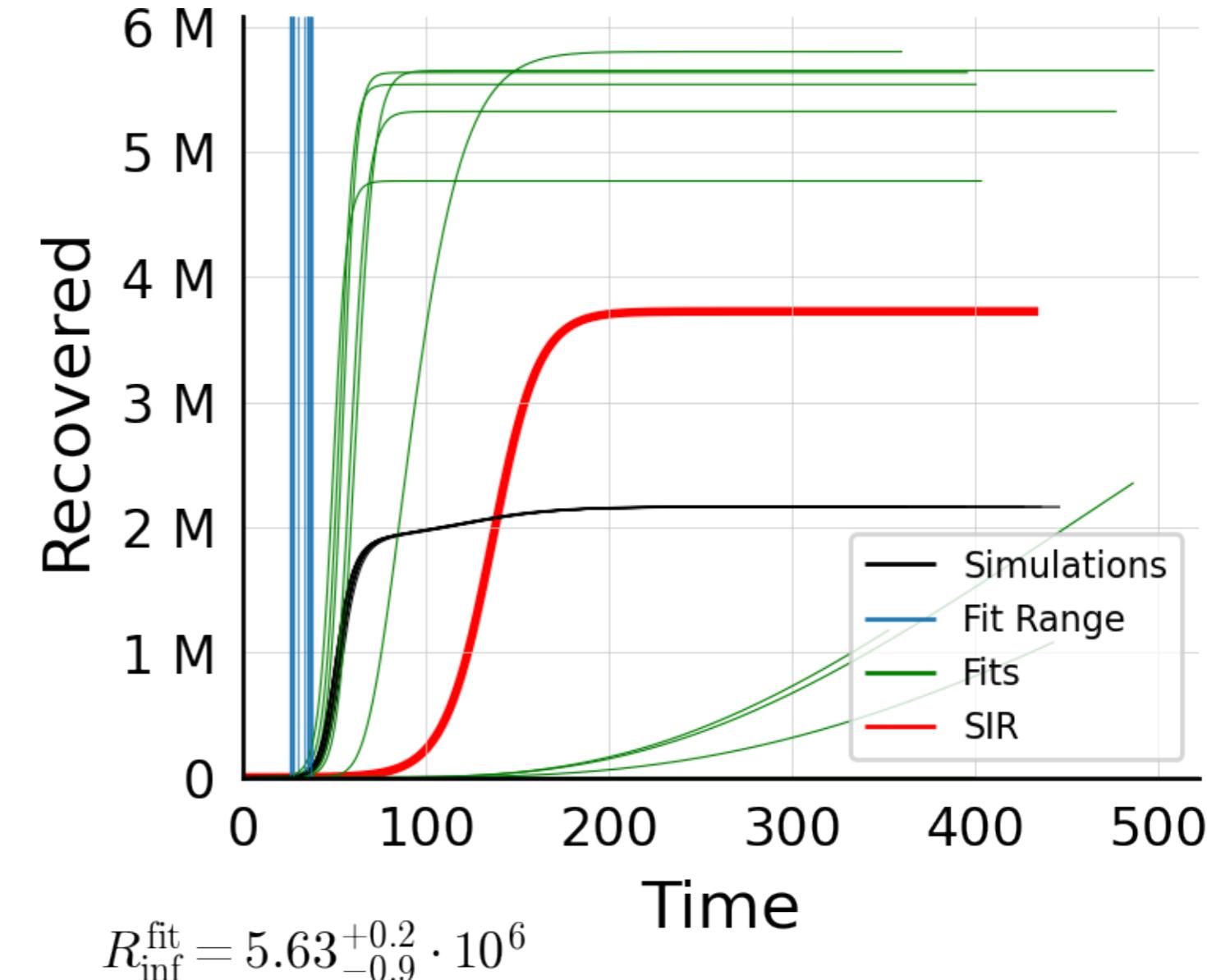
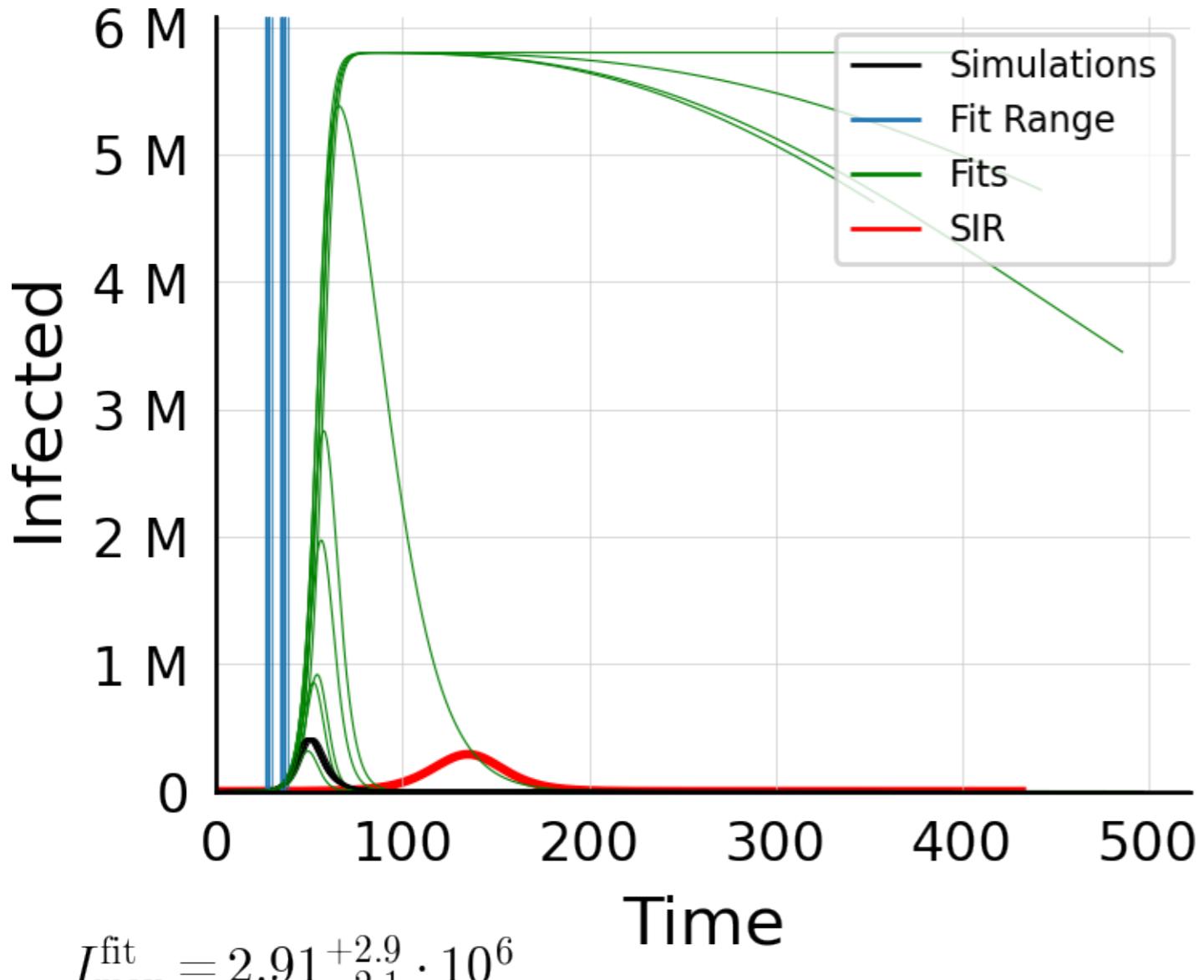
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 50.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



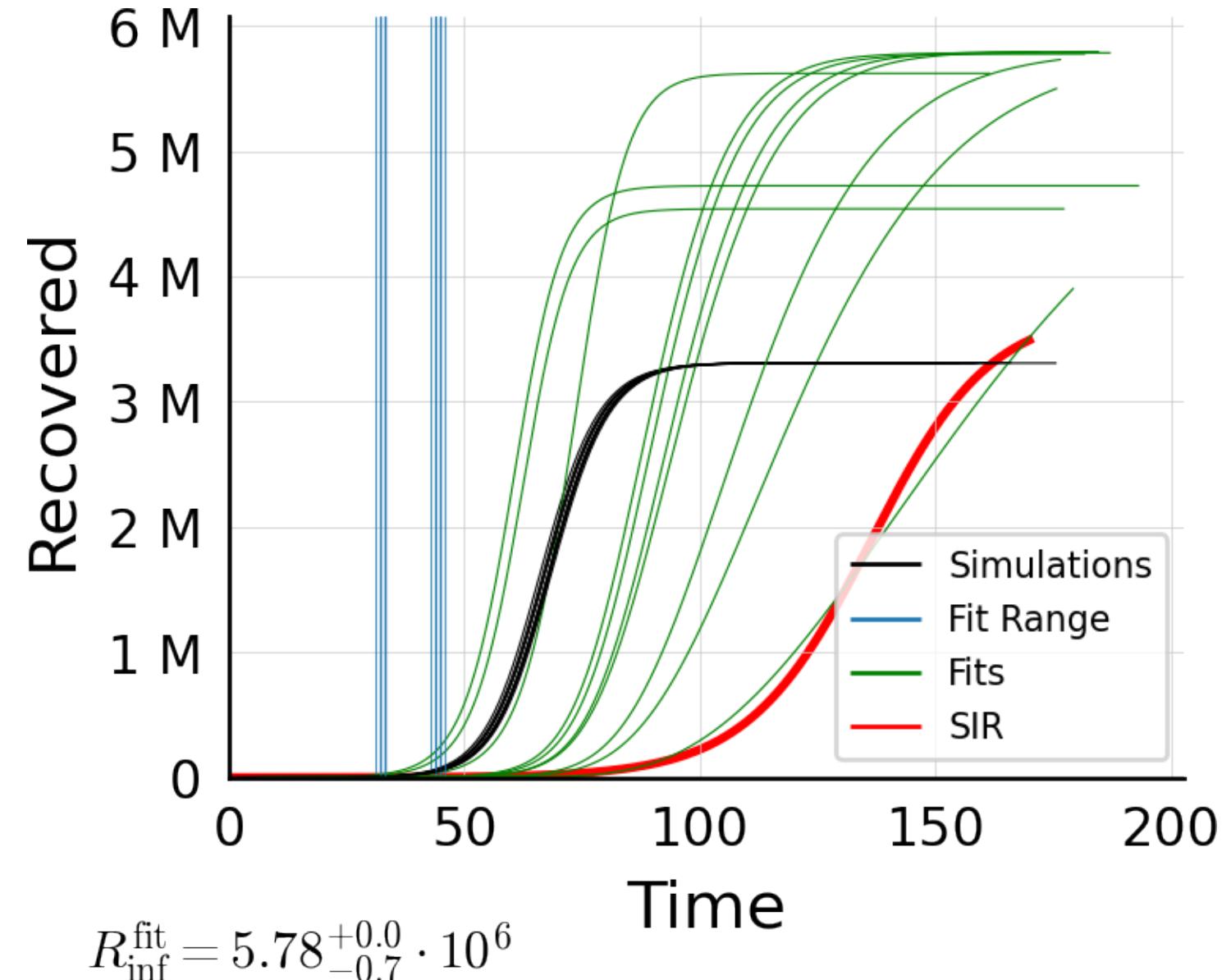
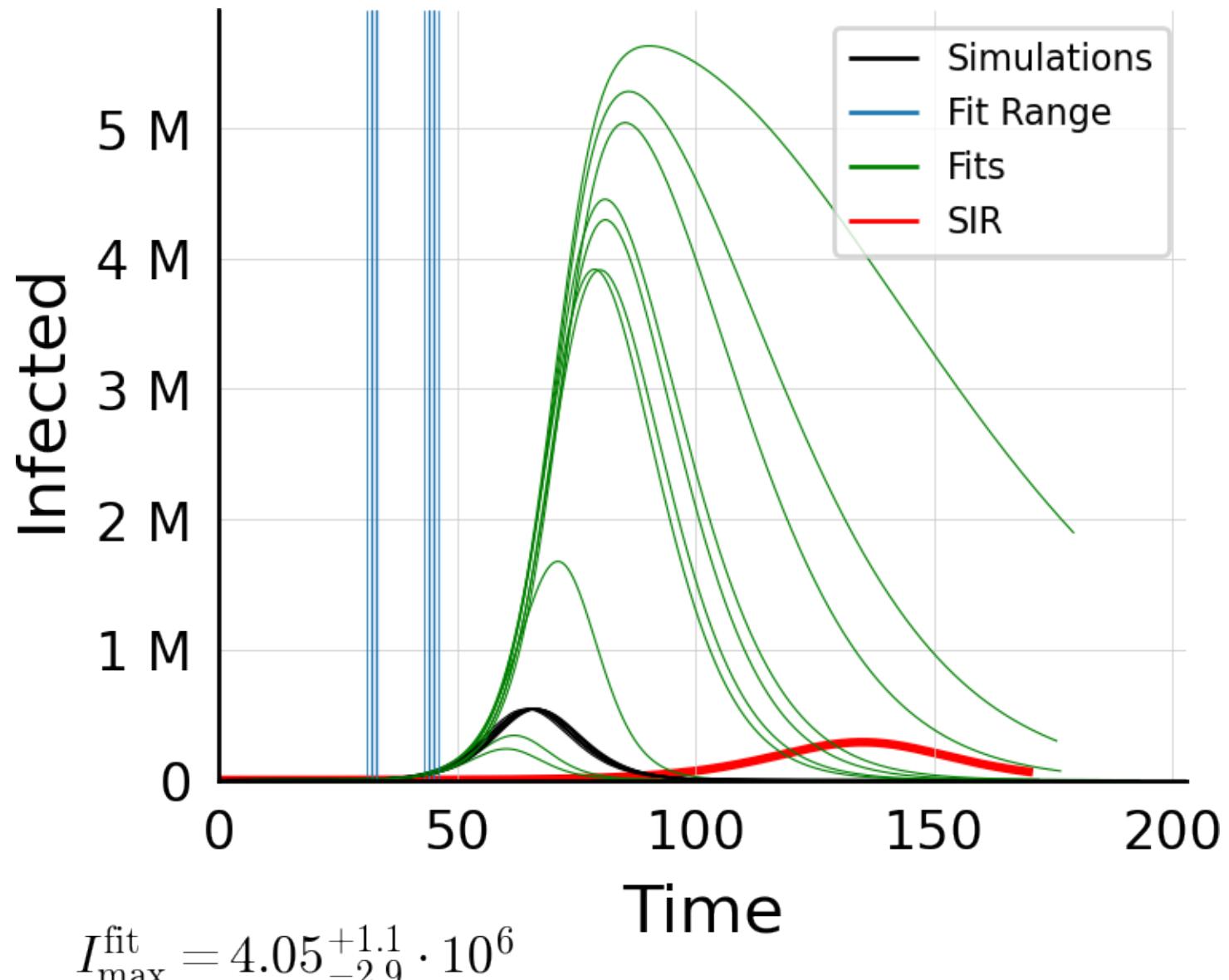
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 500.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #8



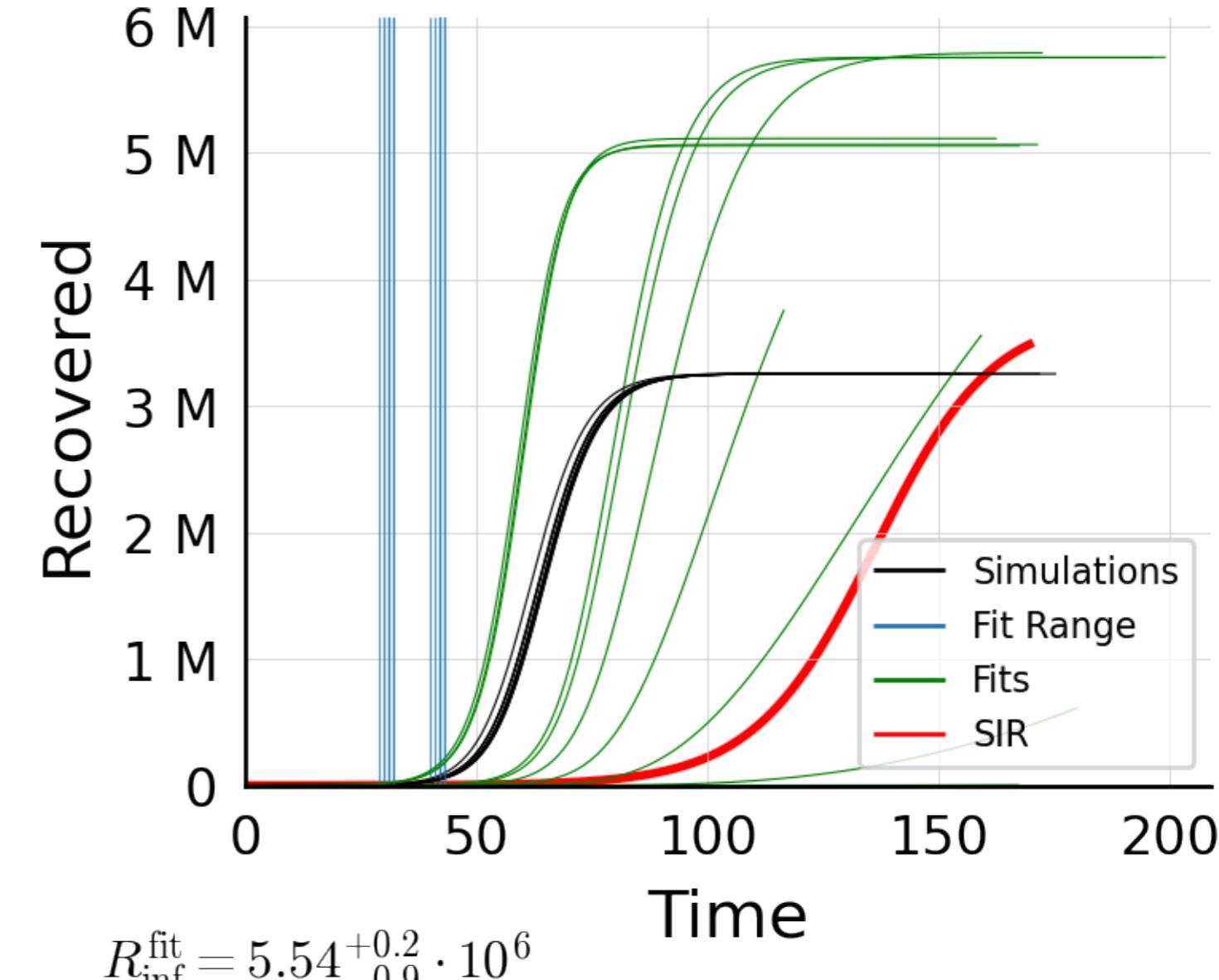
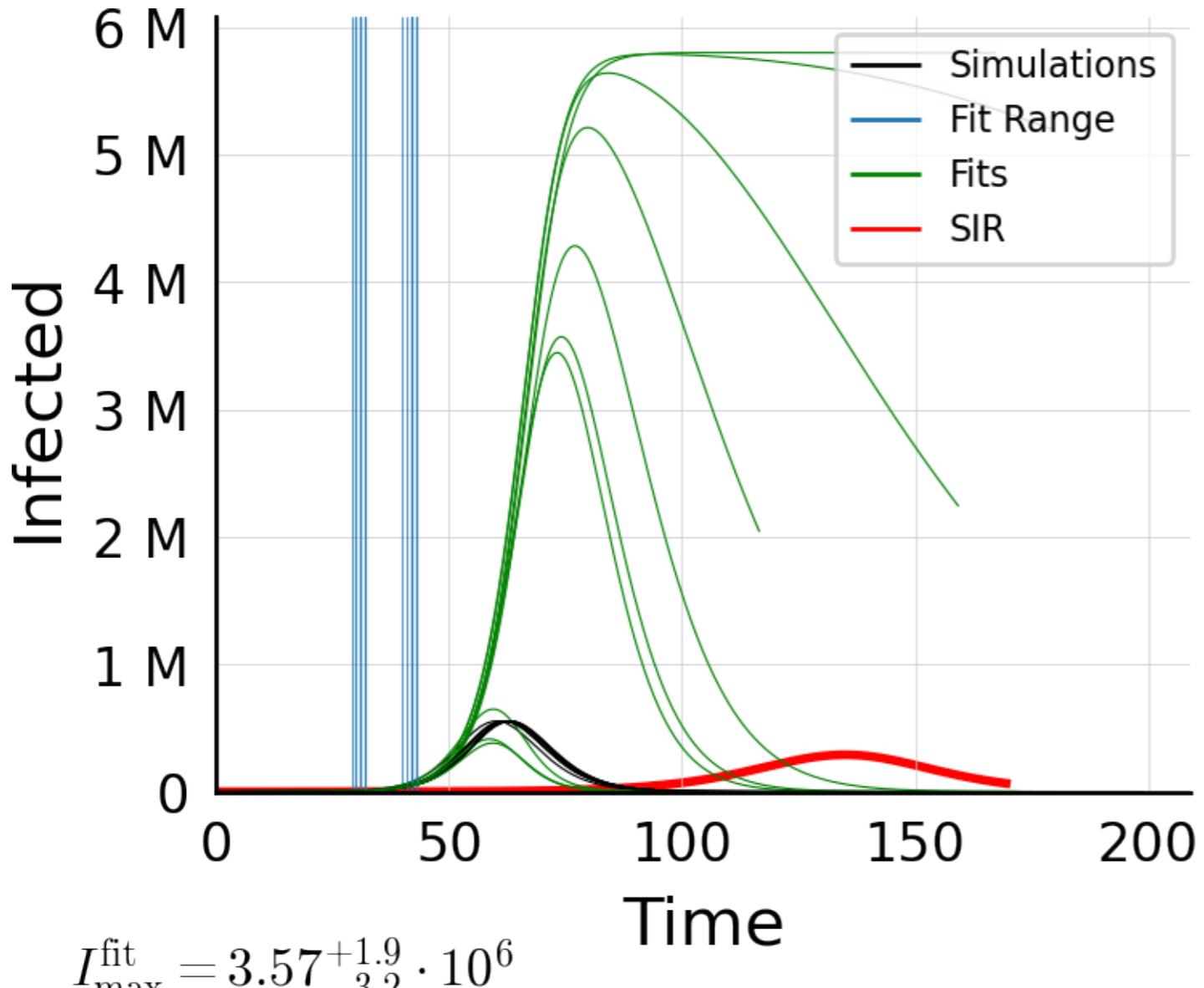
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 75.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



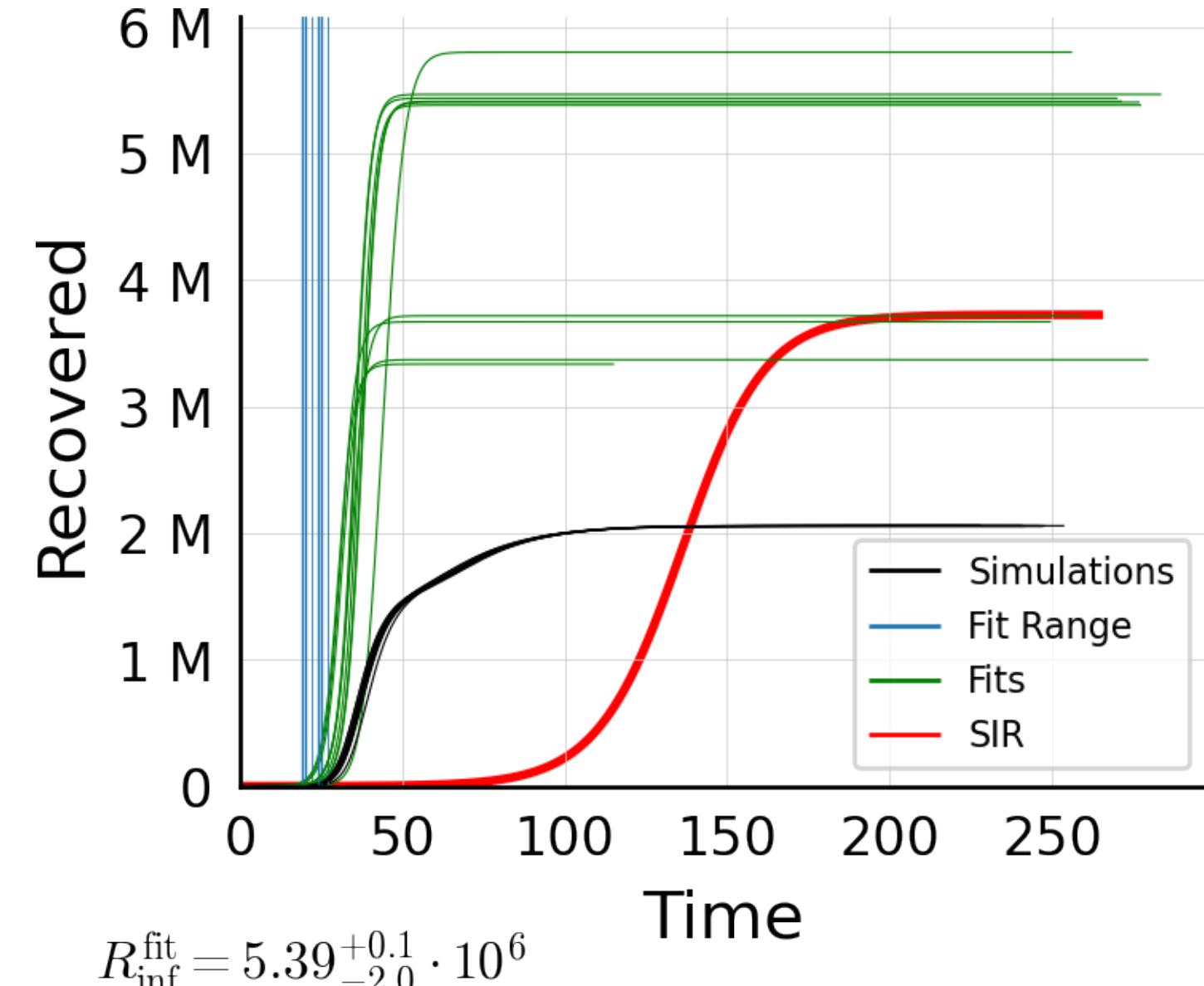
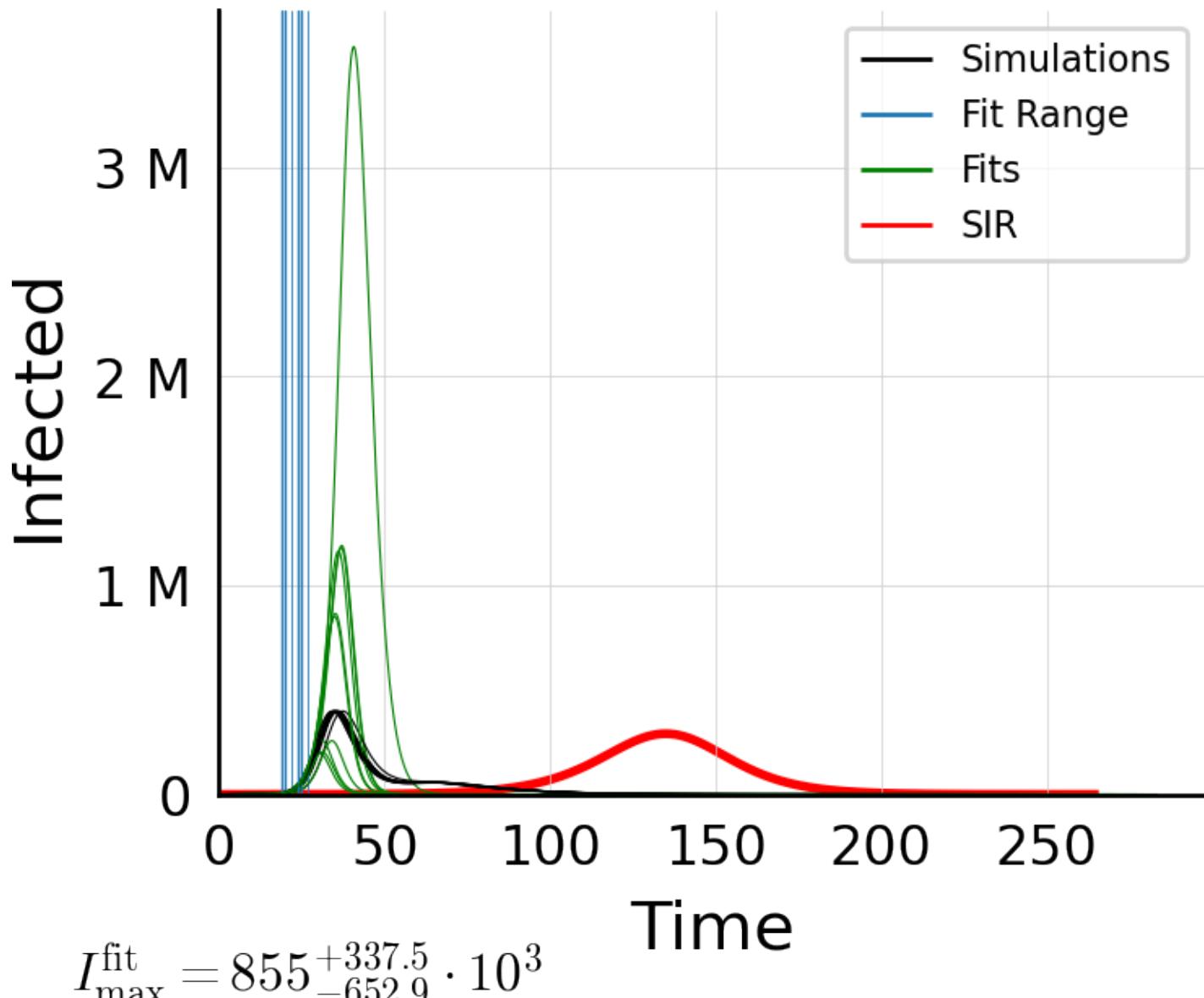
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



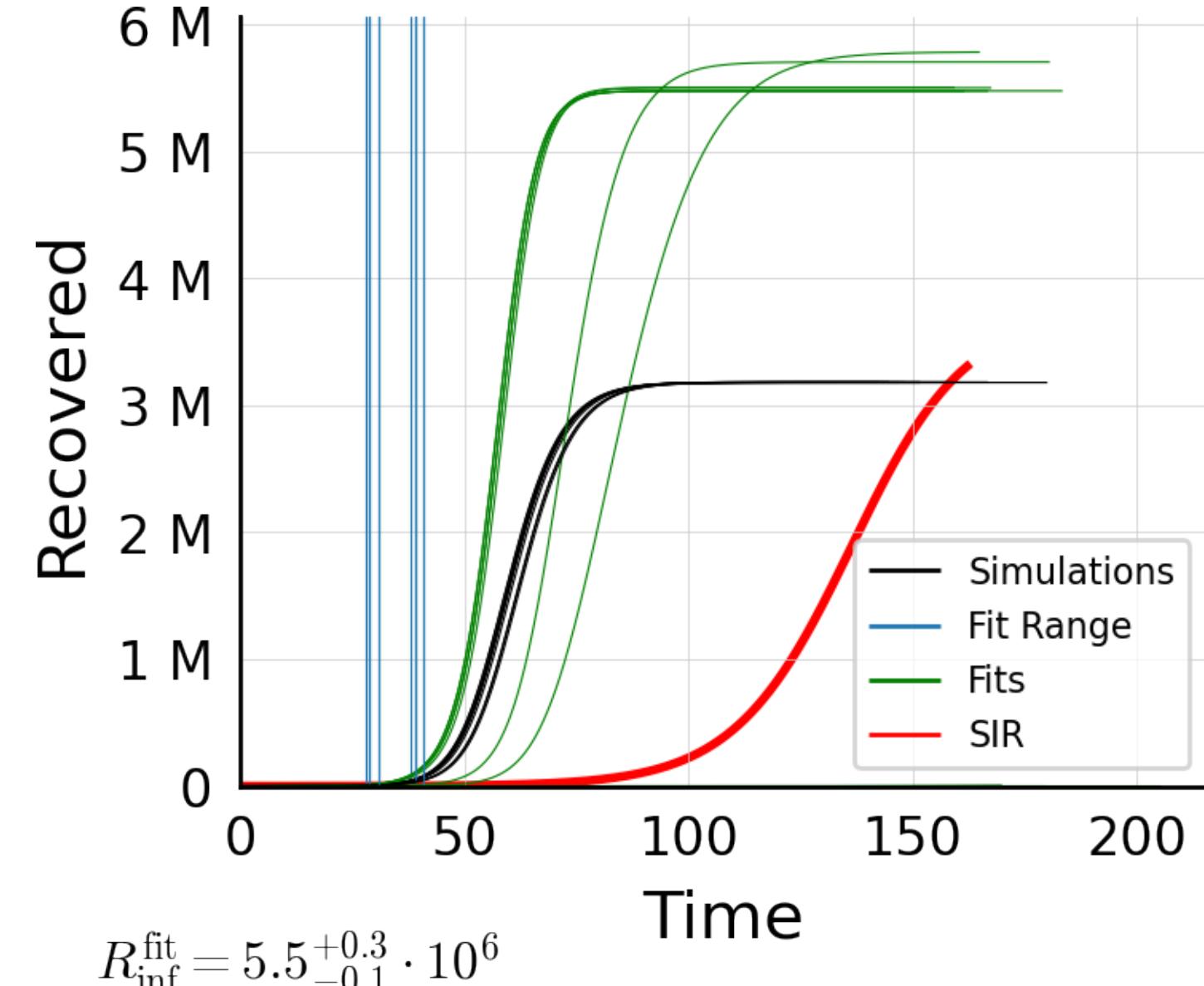
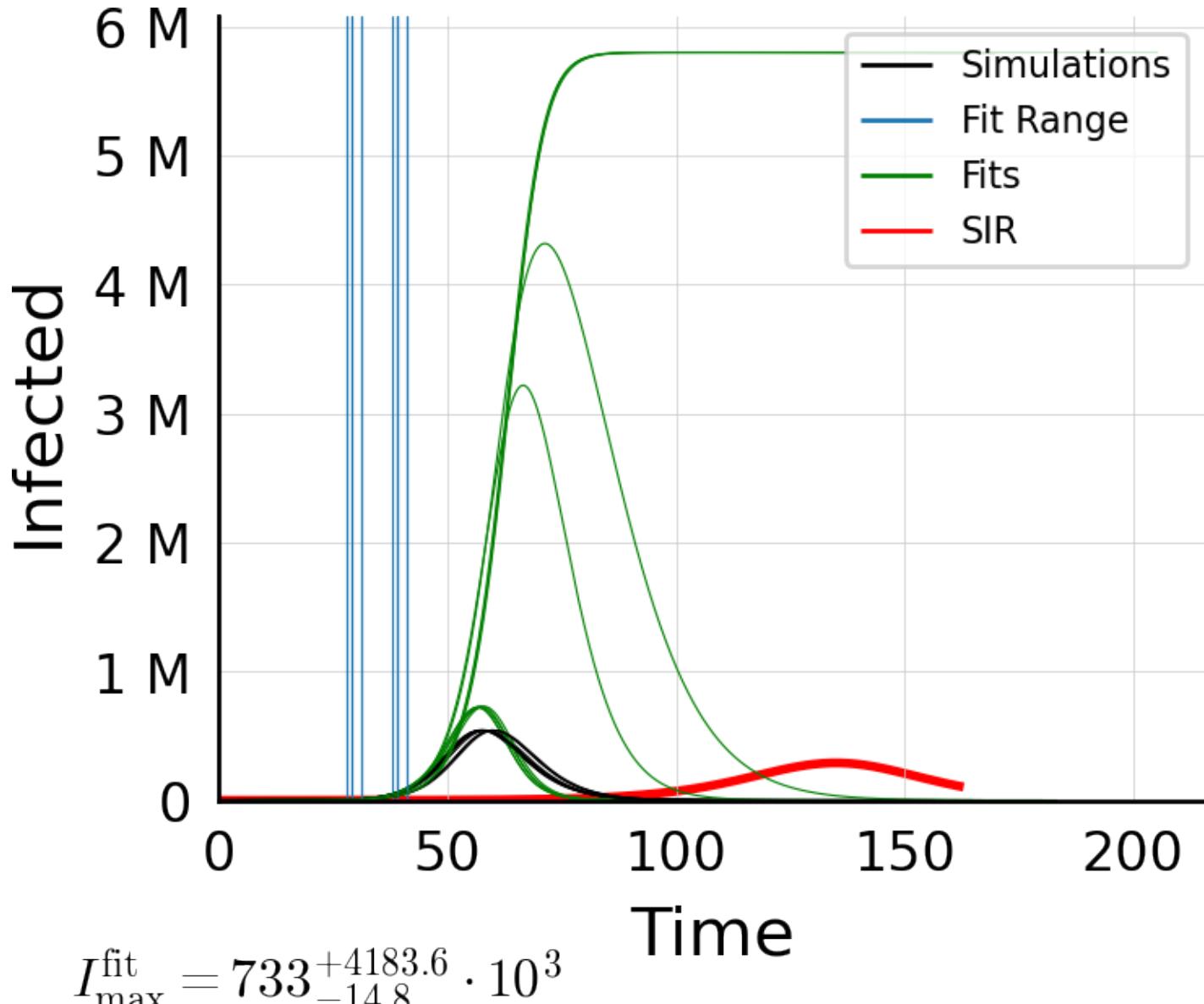
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 10.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



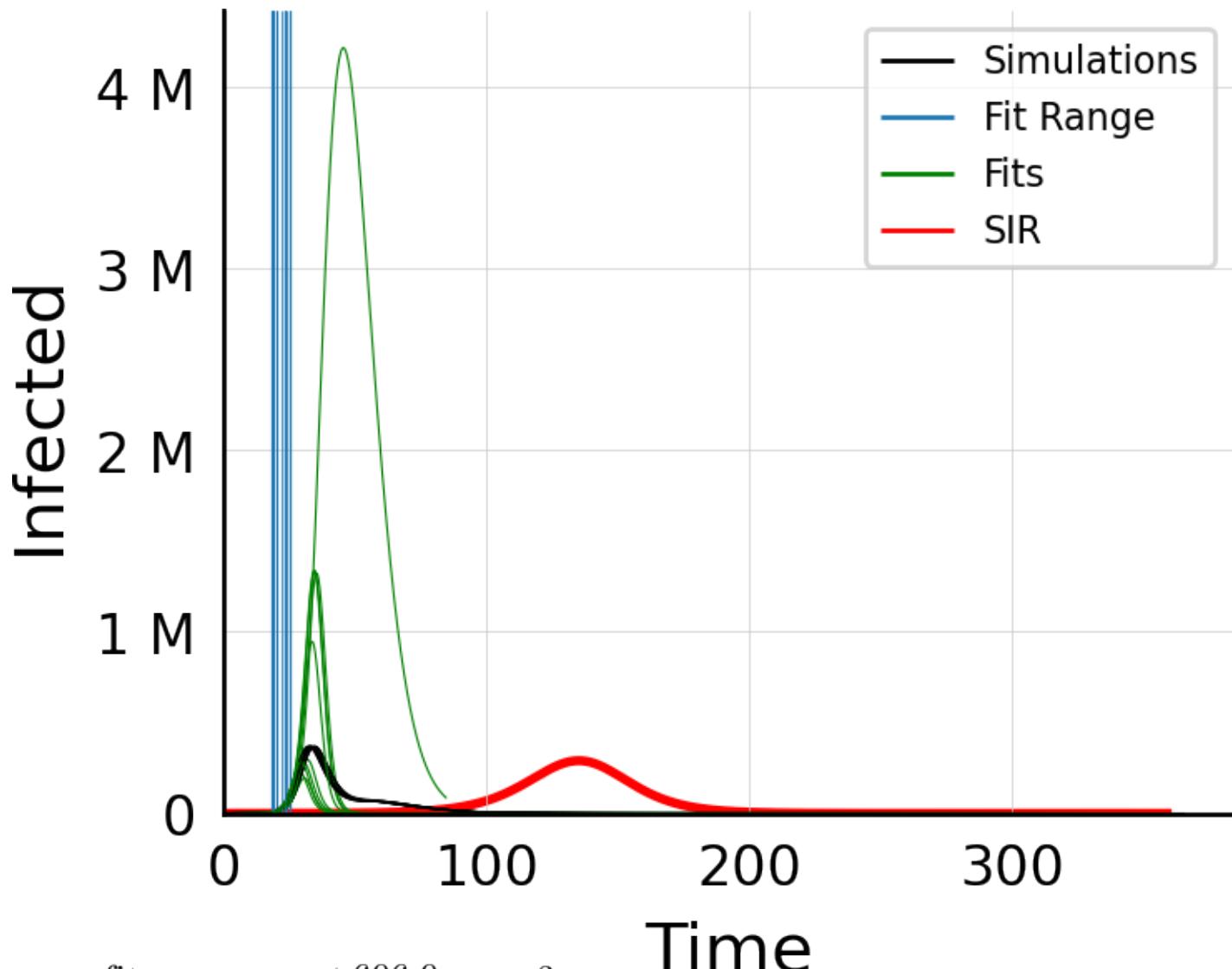
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



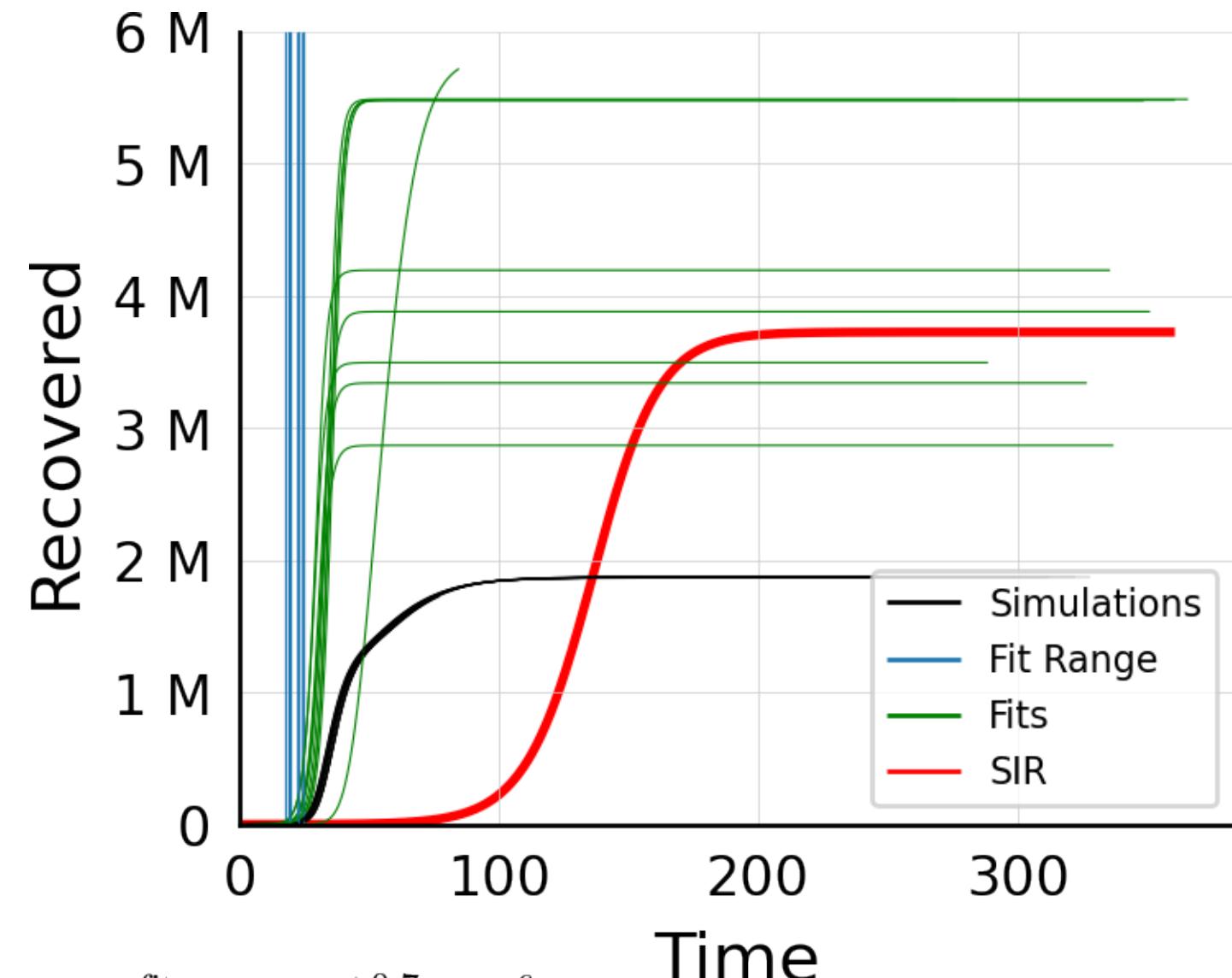
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 15.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 150.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10

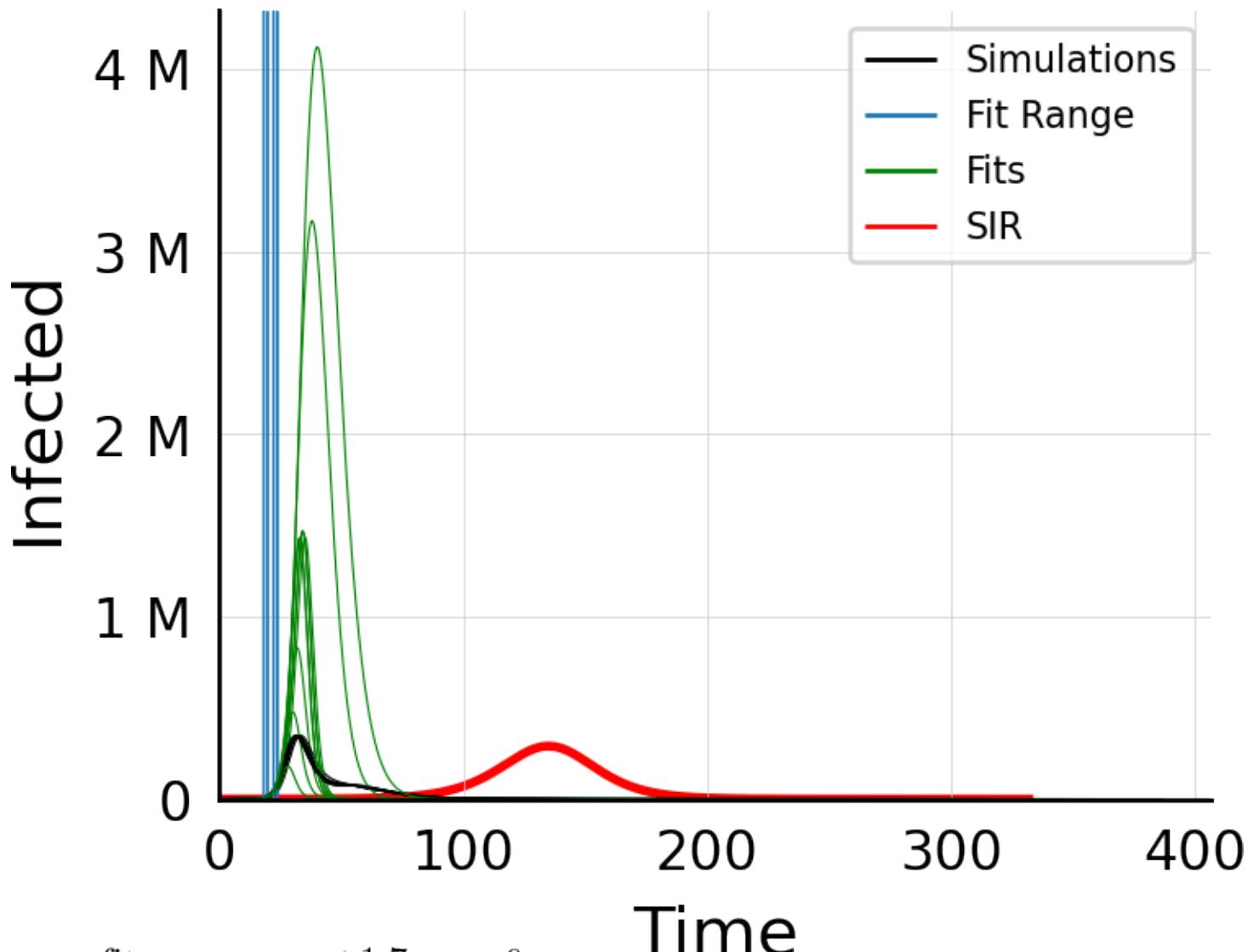


$$I_{\text{max}}^{\text{fit}} = 650^{+696.9}_{-424.5} \cdot 10^3$$

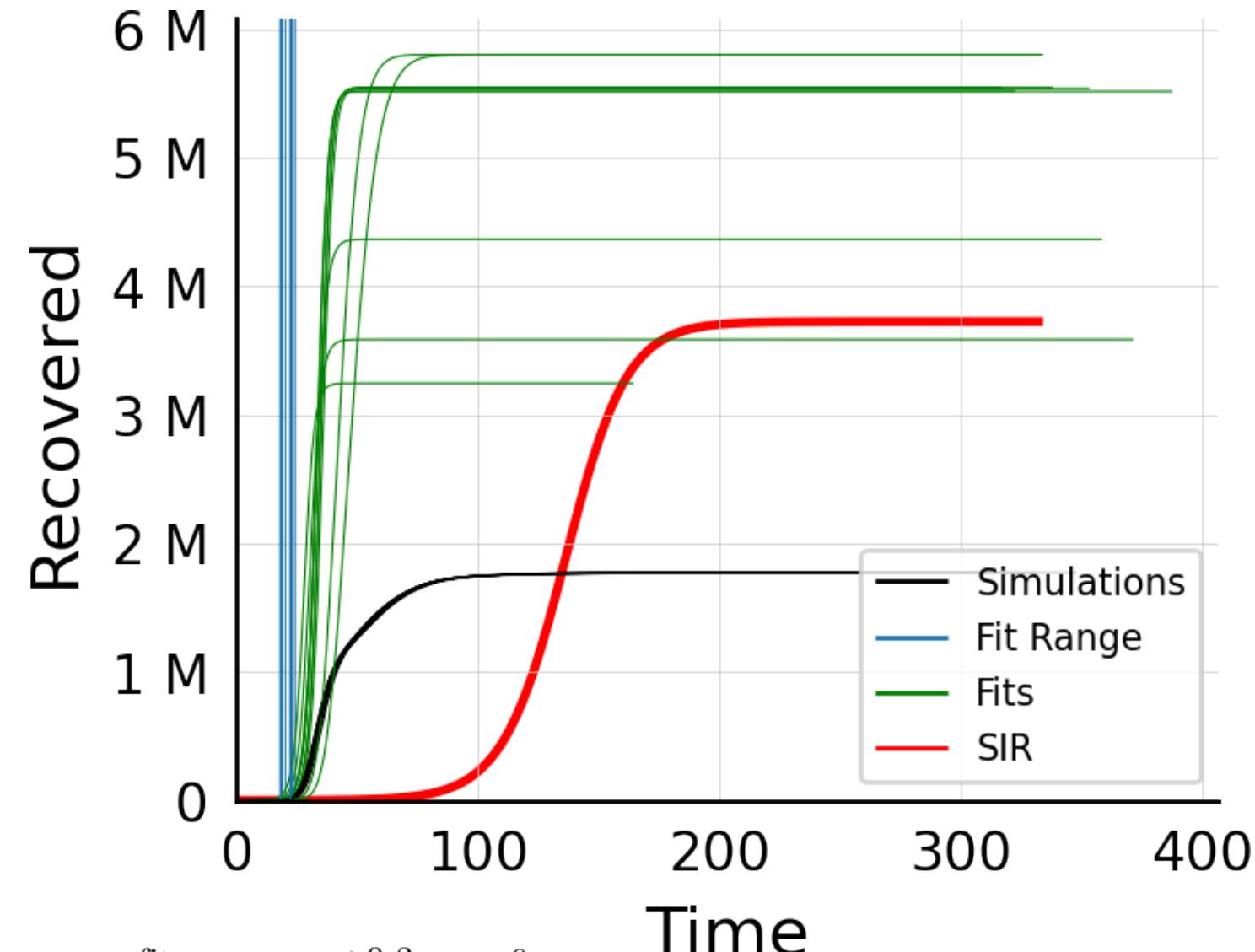


$$R_{\text{inf}}^{\text{fit}} = 4.84^{+0.7}_{-1.5} \cdot 10^6$$

$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 200.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10

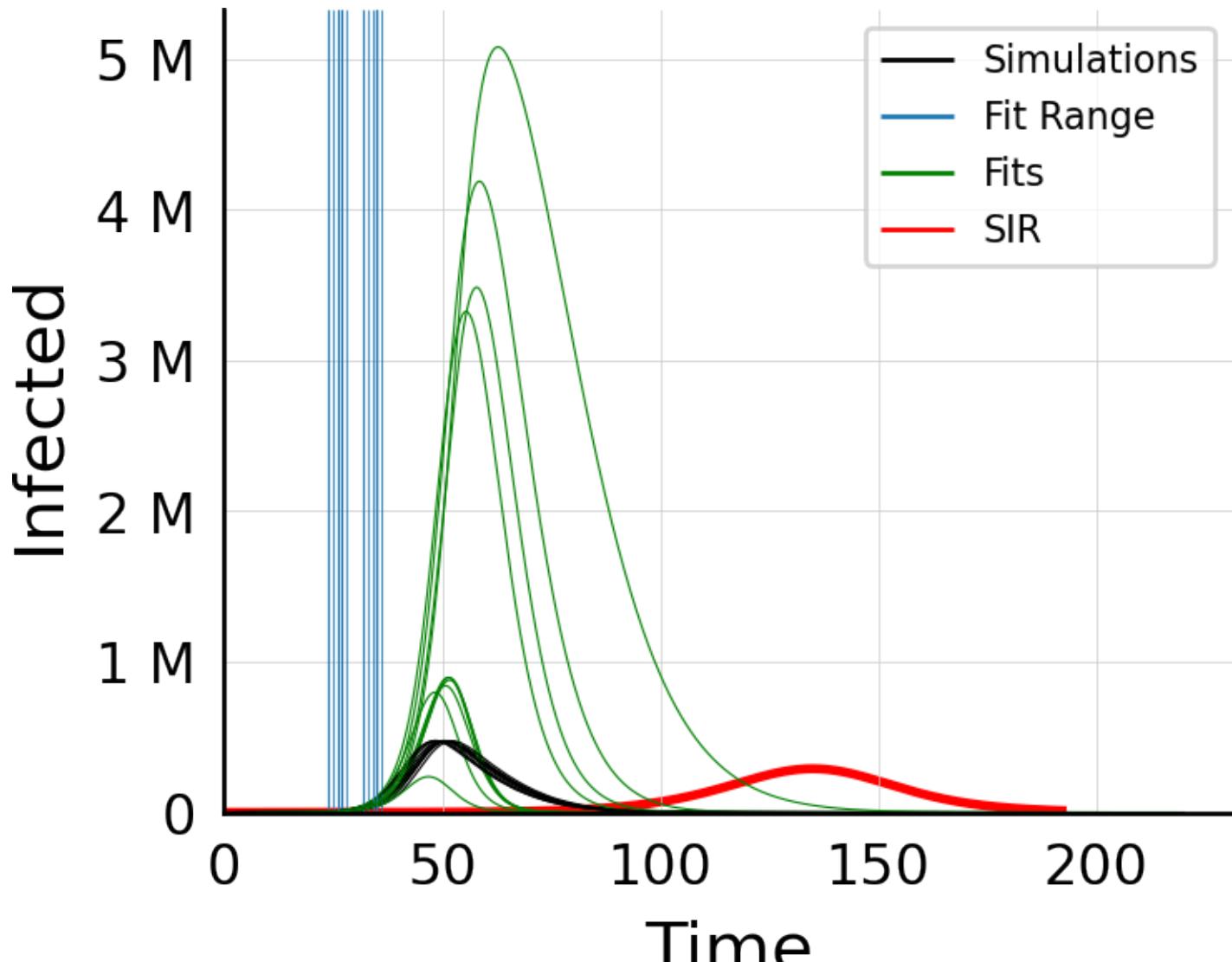


$$I_{\text{max}}^{\text{fit}} = 1.44^{+1.7}_{-1.0} \cdot 10^6$$

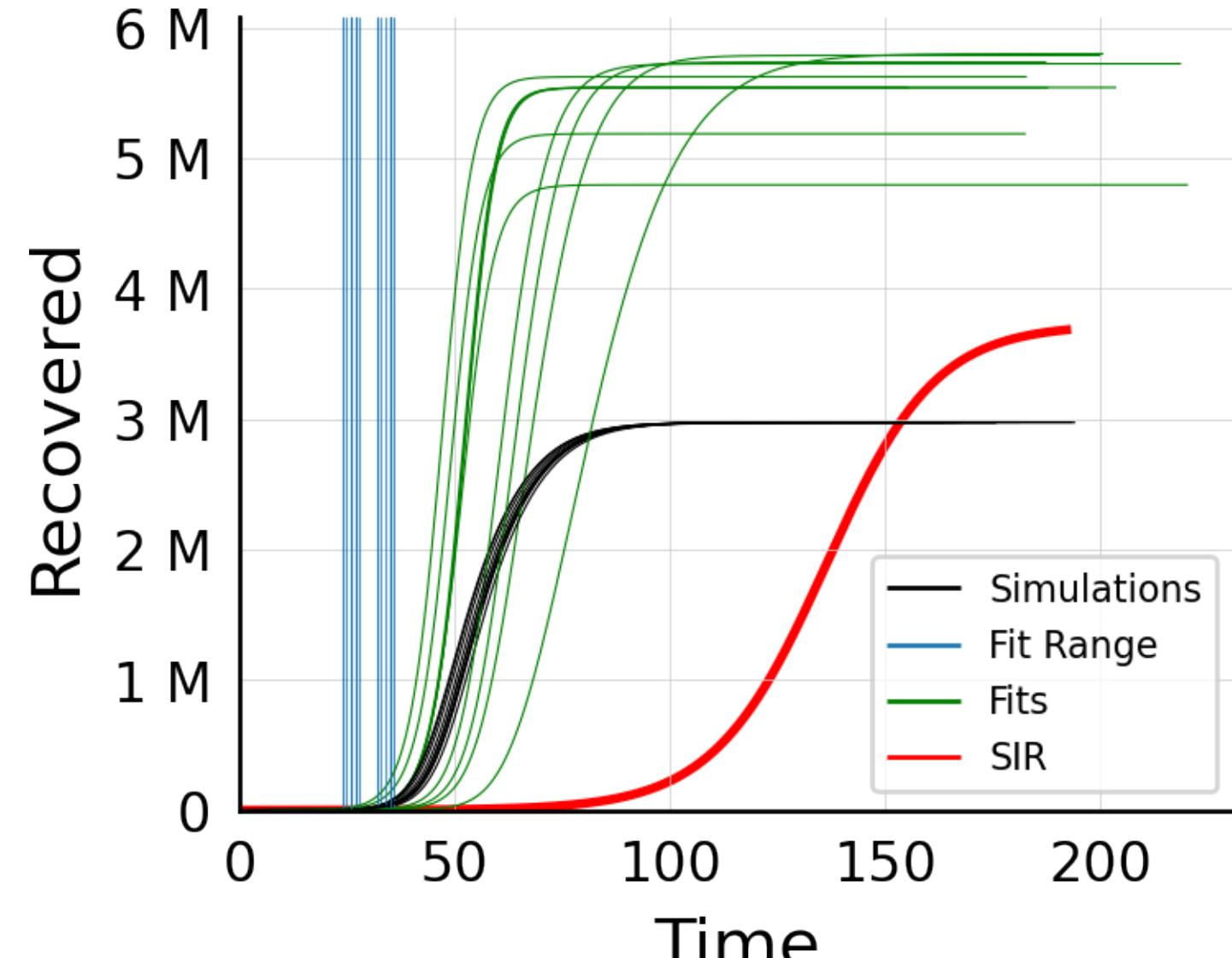


$$R_{\text{inf}}^{\text{fit}} = 5.53^{+0.3}_{-1.9} \cdot 10^6$$

$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 25.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10

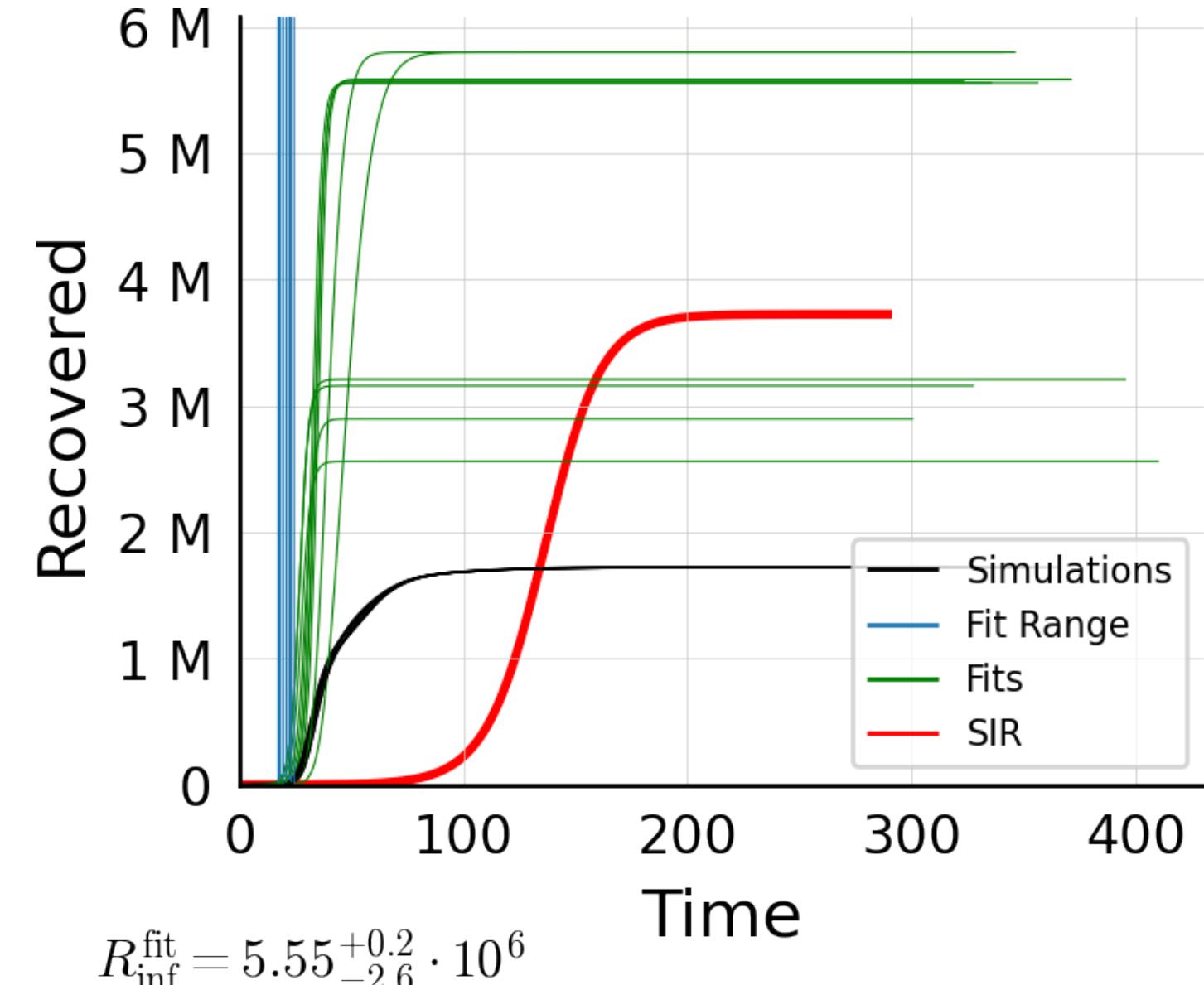
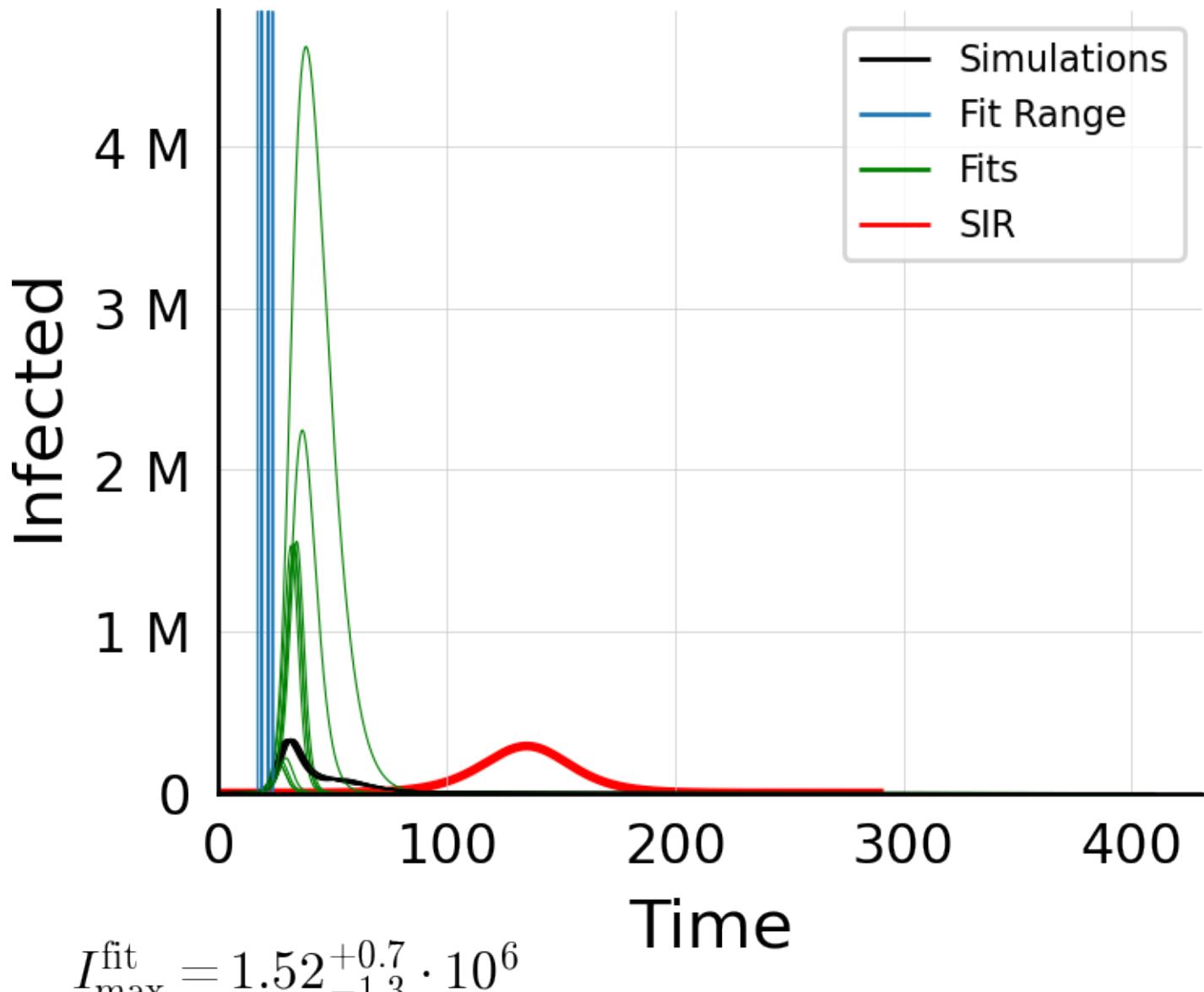


$$I_{\text{max}}^{\text{fit}} = 898^{+3068.1}_{-94.2} \cdot 10^3$$

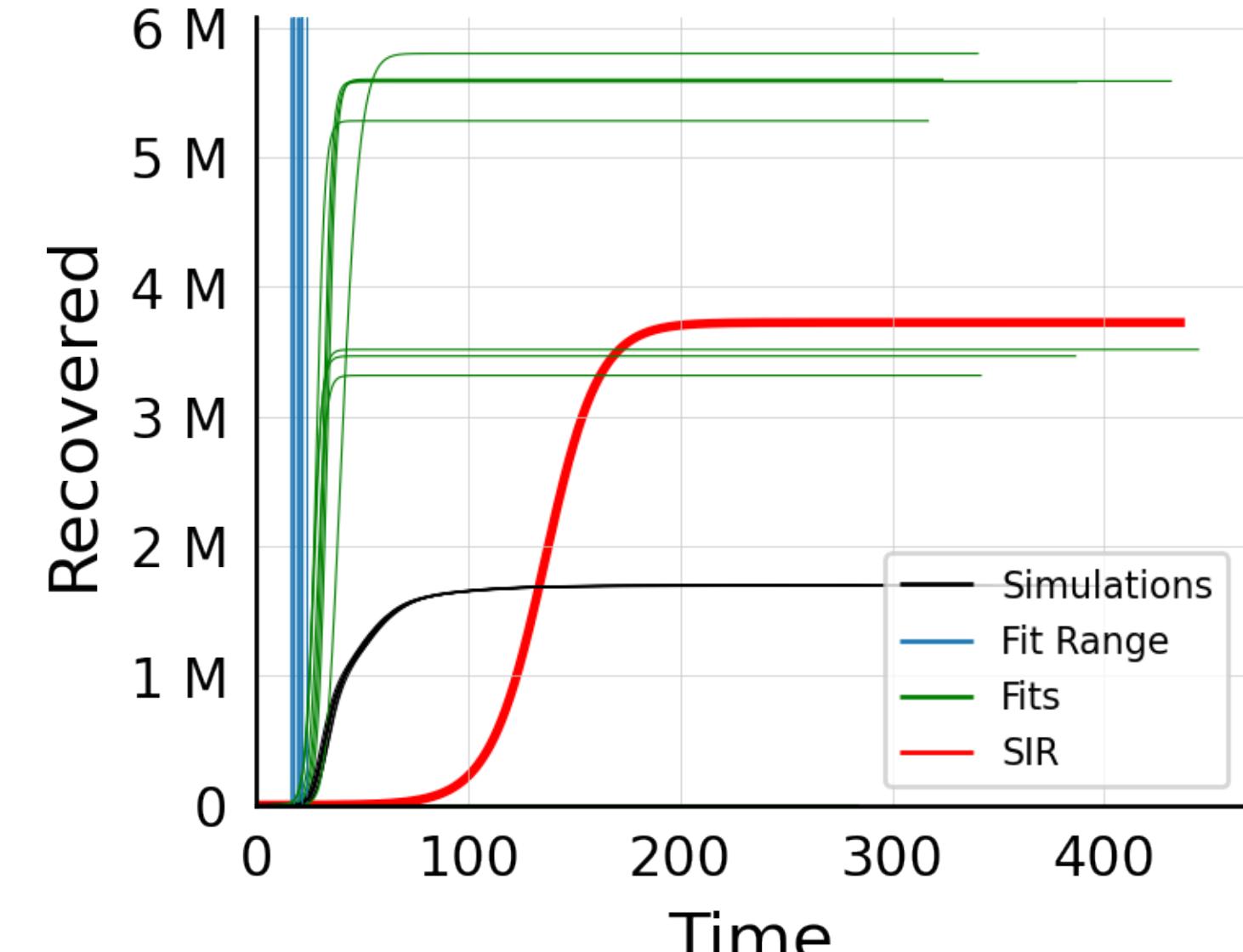
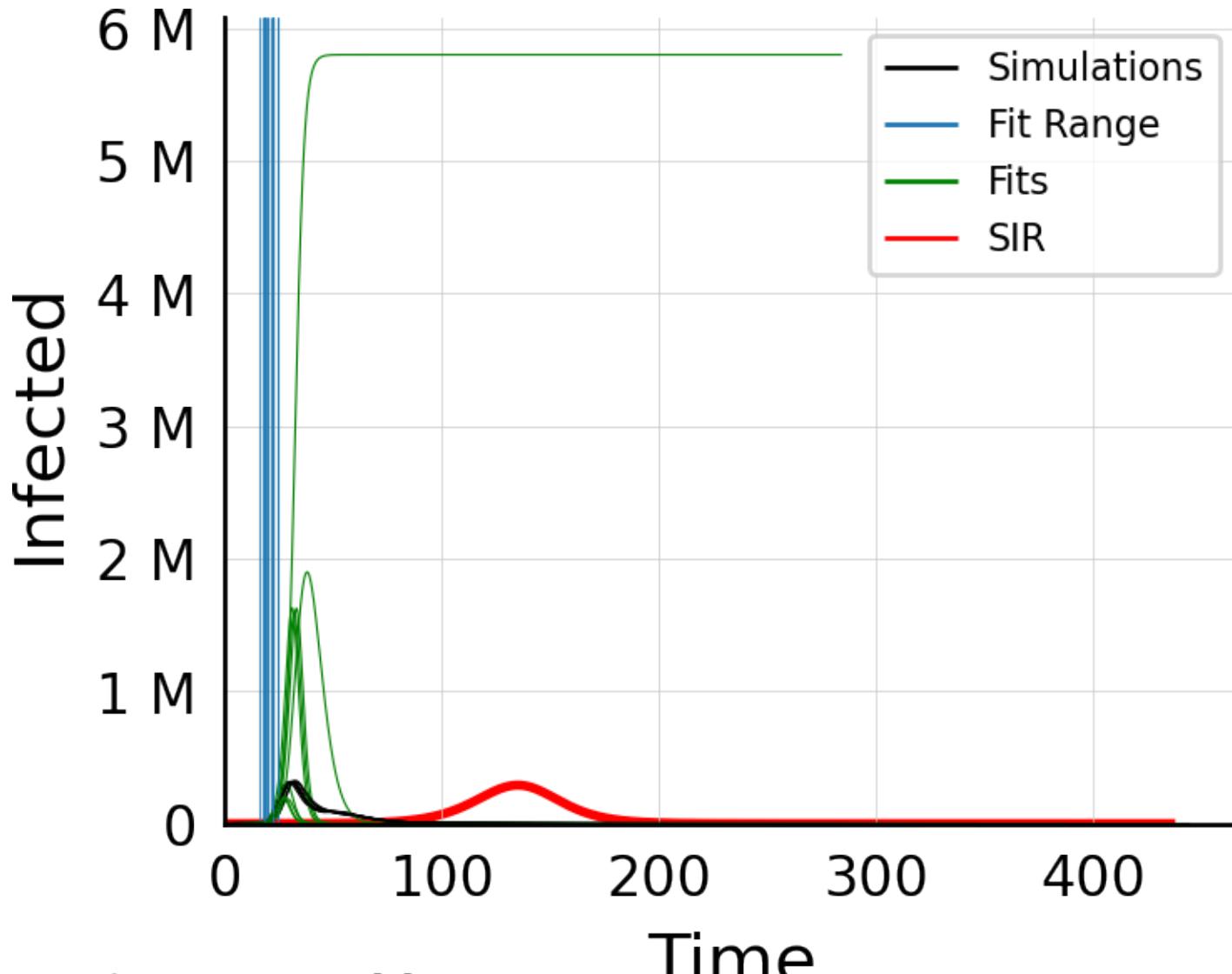


$$R_{\text{inf}}^{\text{fit}} = 5.55^{+0.2}_{-0.4} \cdot 10^6$$

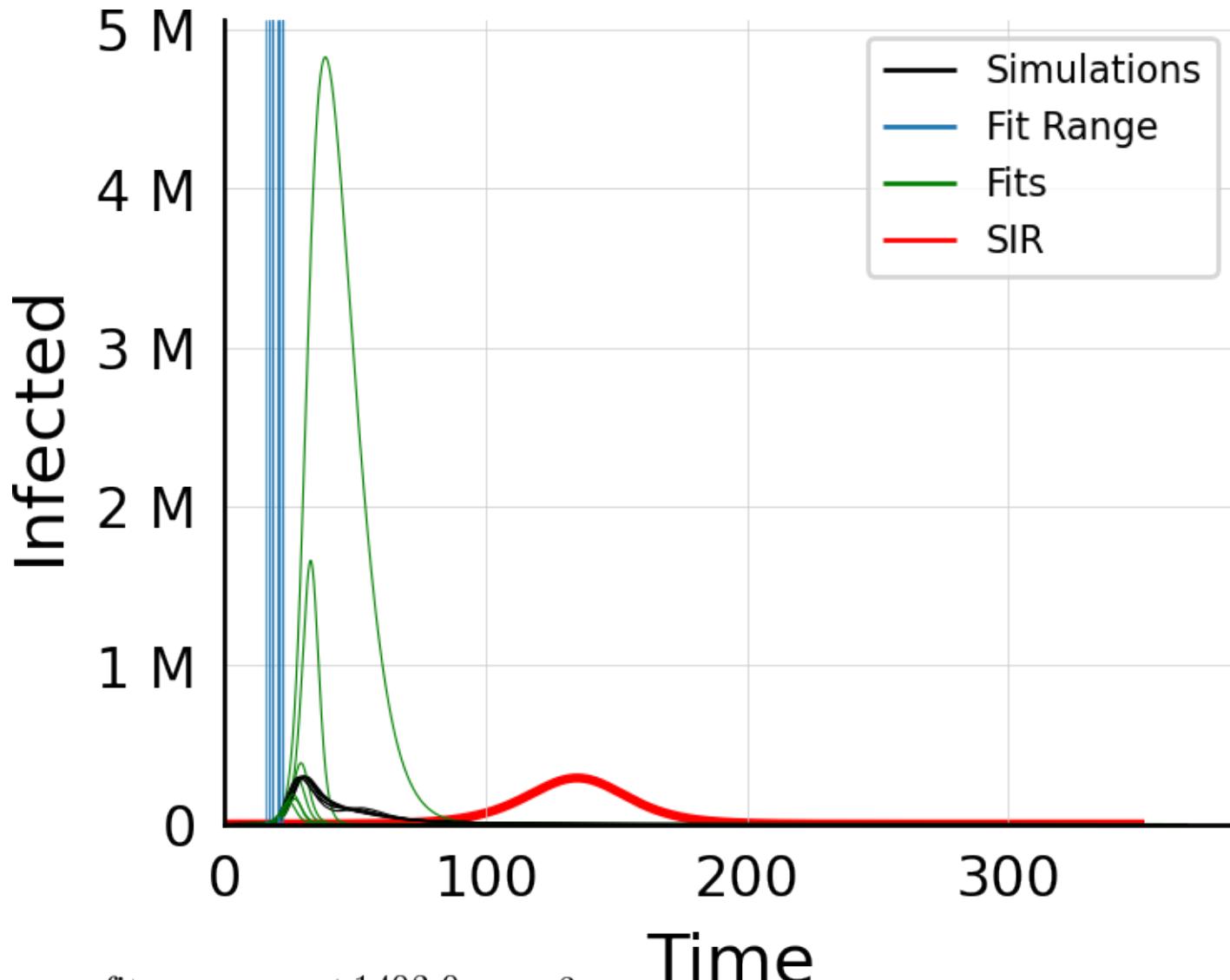
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 250.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



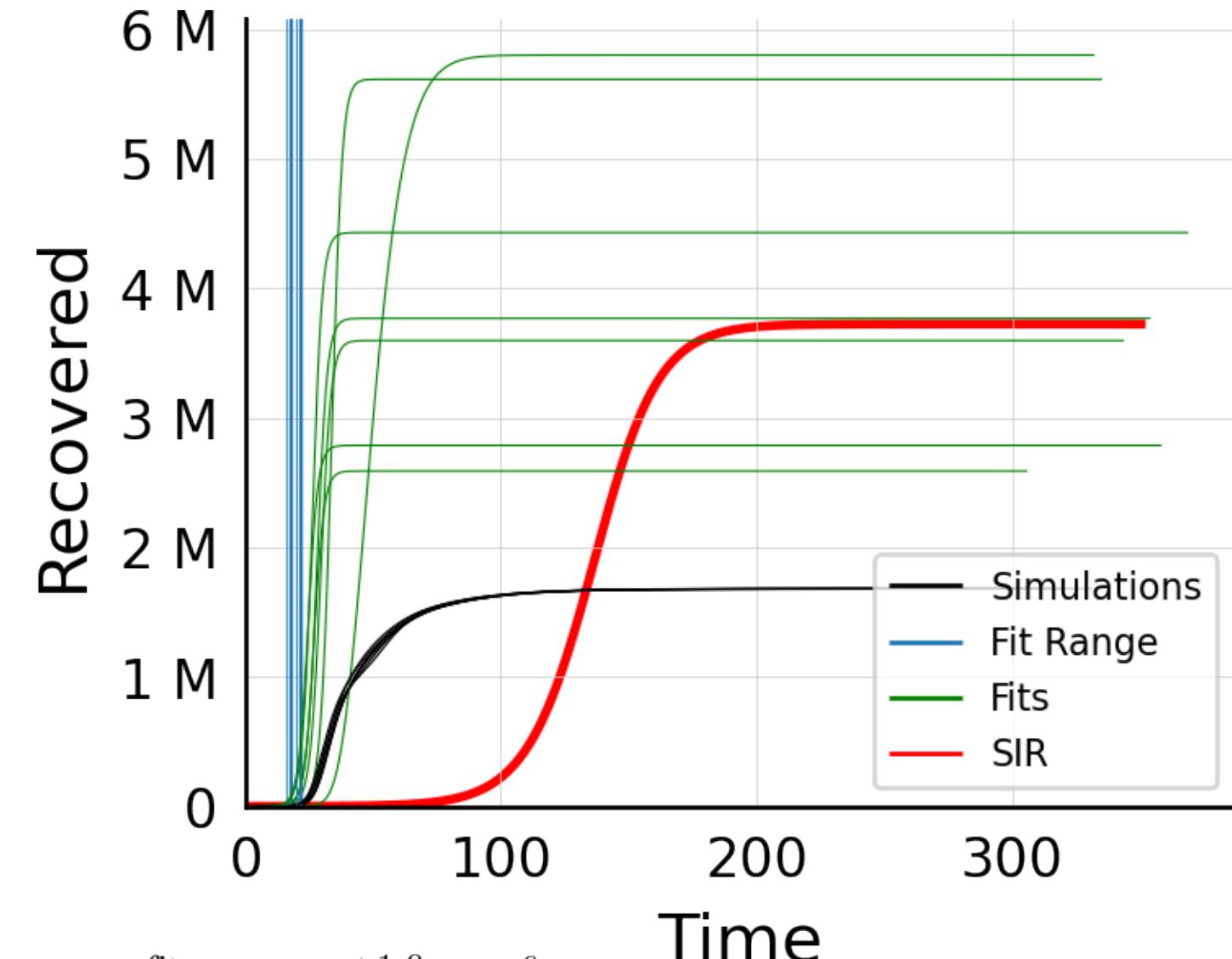
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 300.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #9



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 400.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #7

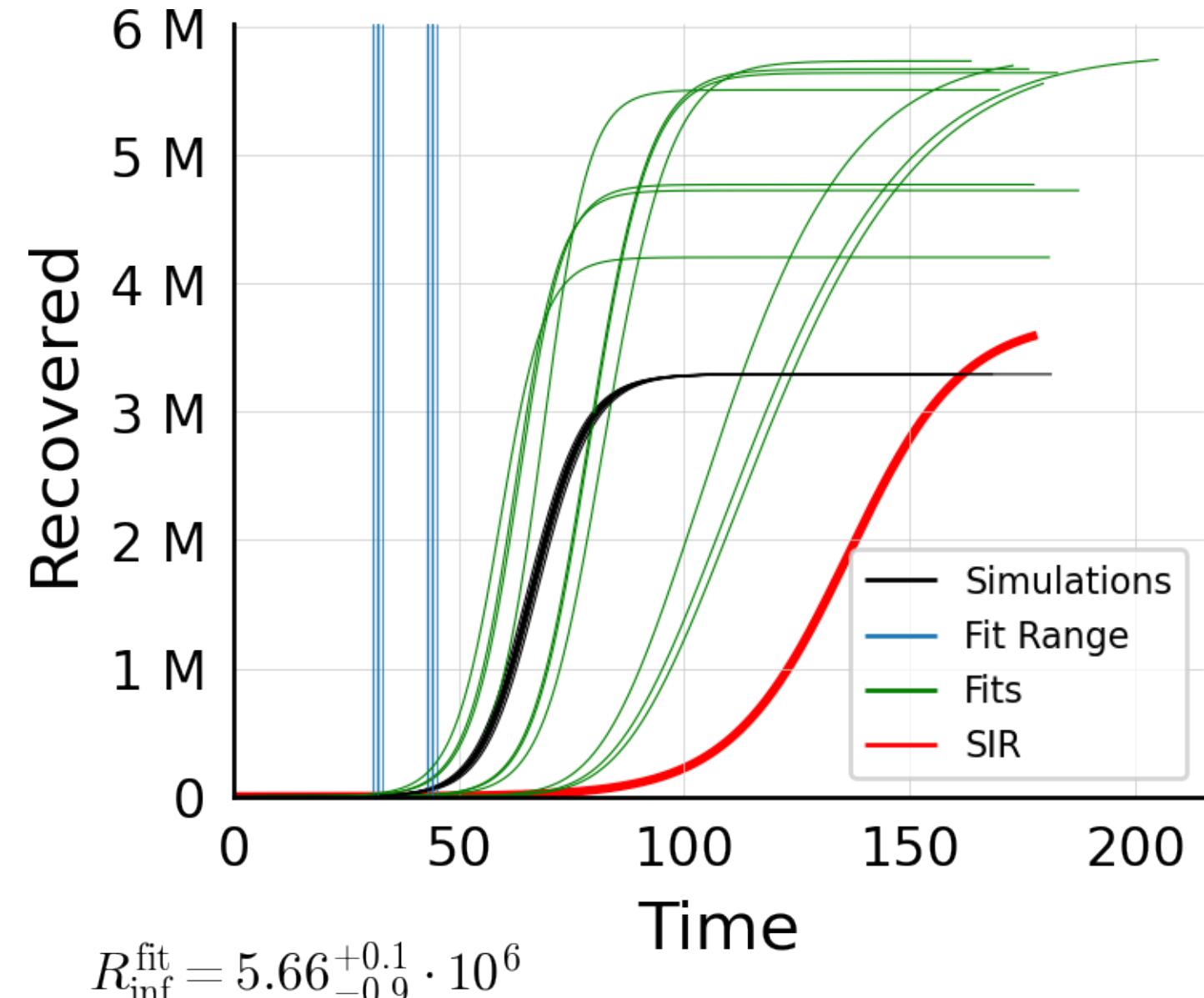
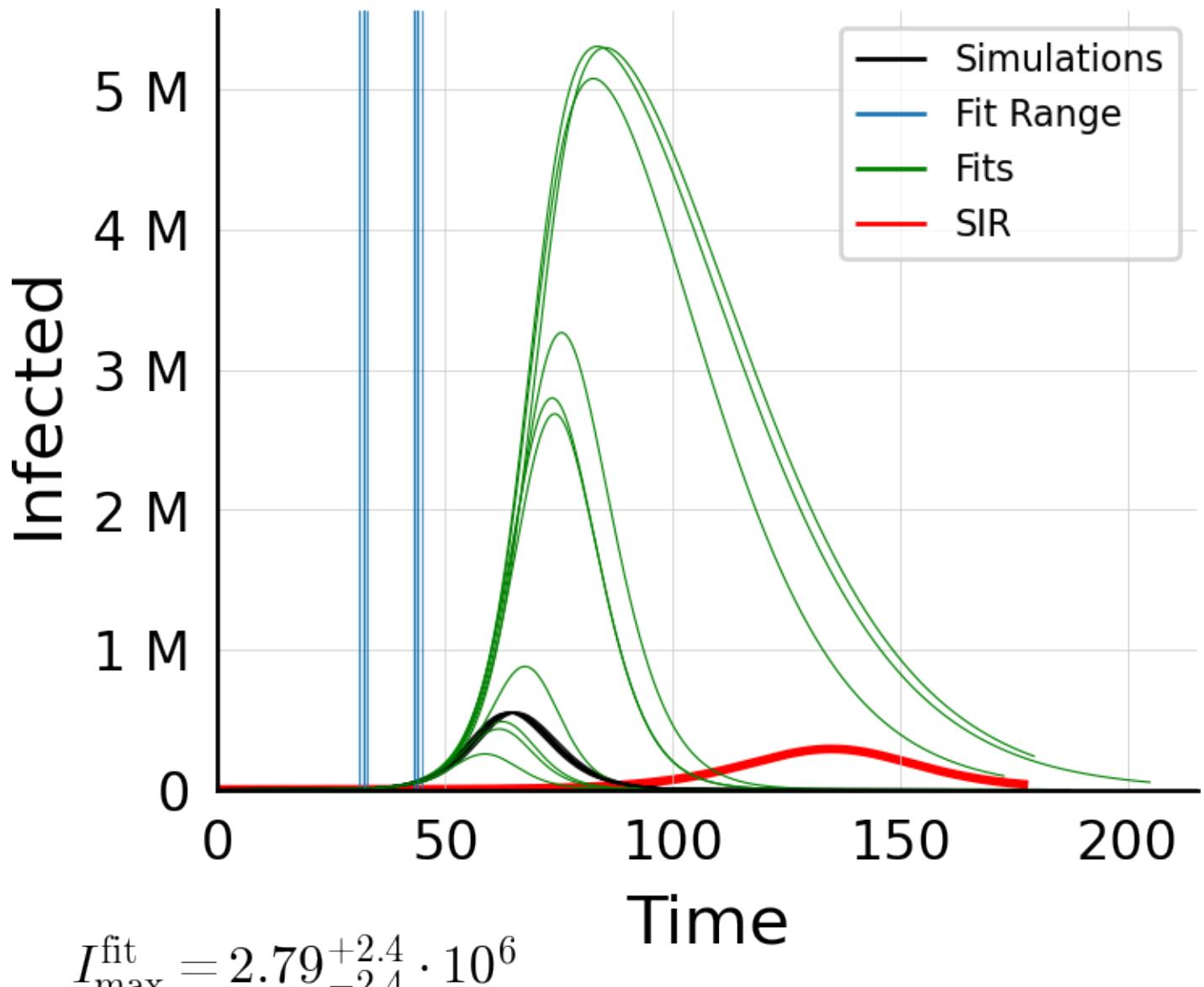


$$I_{\text{max}}^{\text{fit}} = 287^{+1403.0}_{-143.0} \cdot 10^3$$

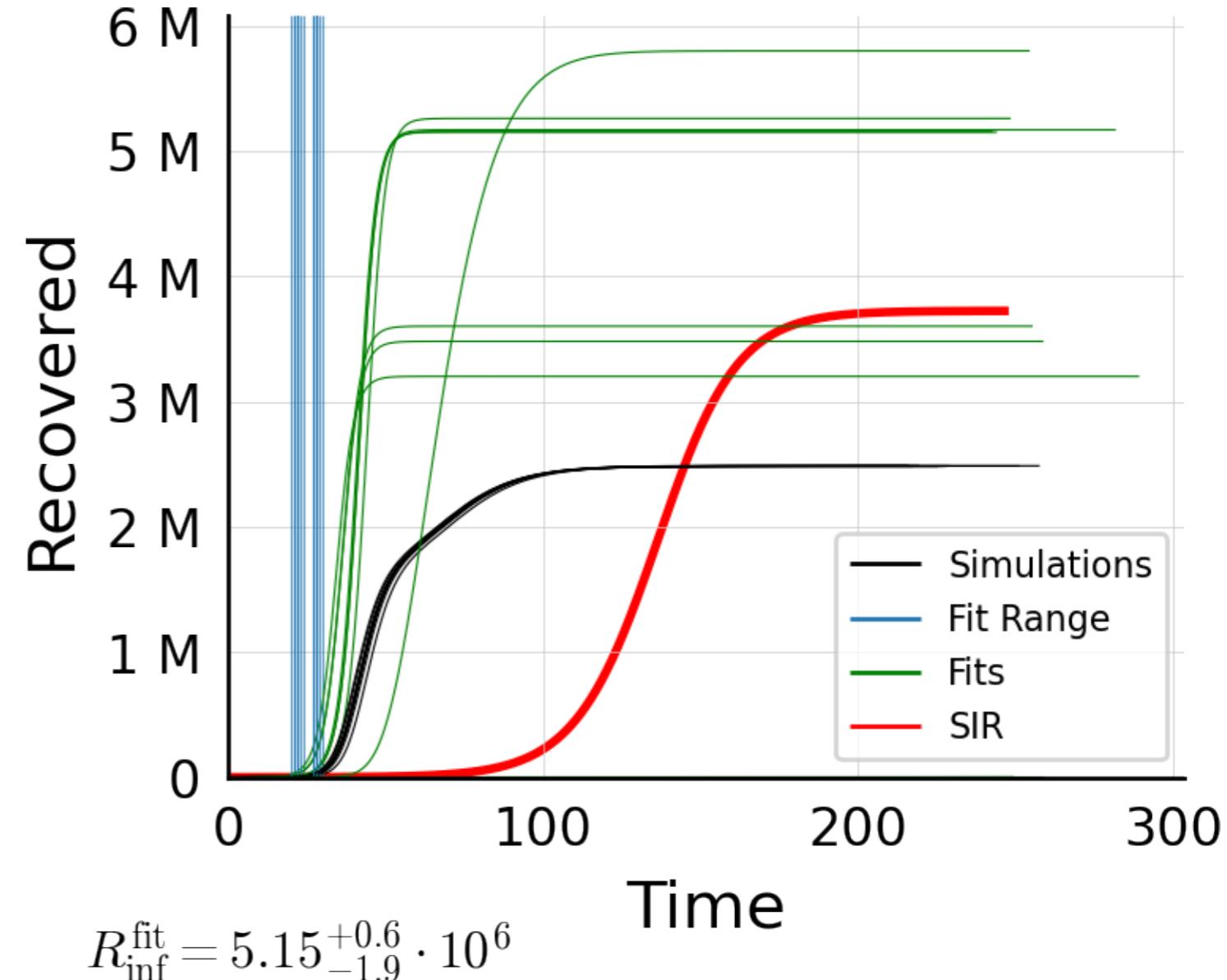
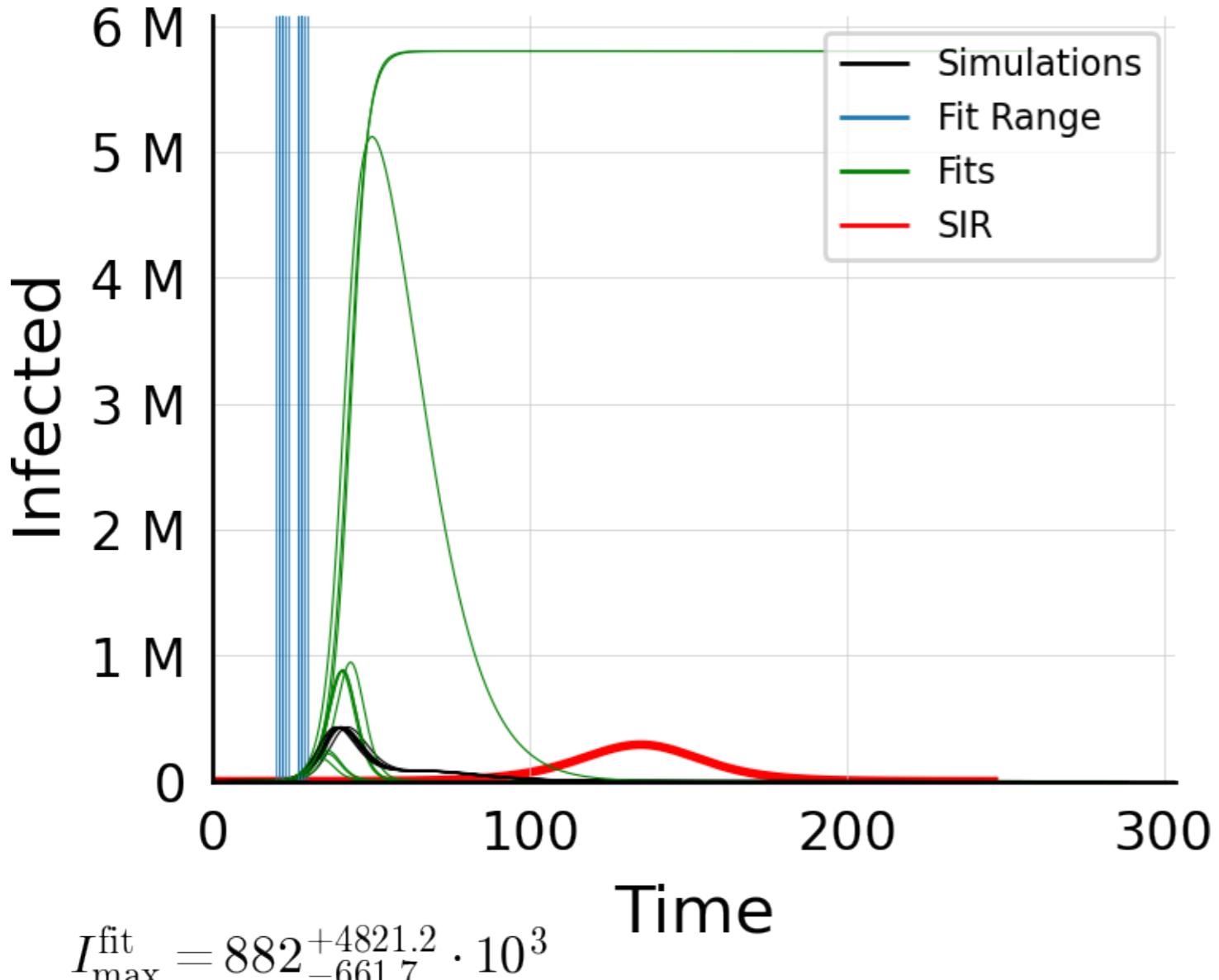


$$R_{\text{inf}}^{\text{fit}} = 3.77^{+1.9}_{-1.0} \cdot 10^6$$

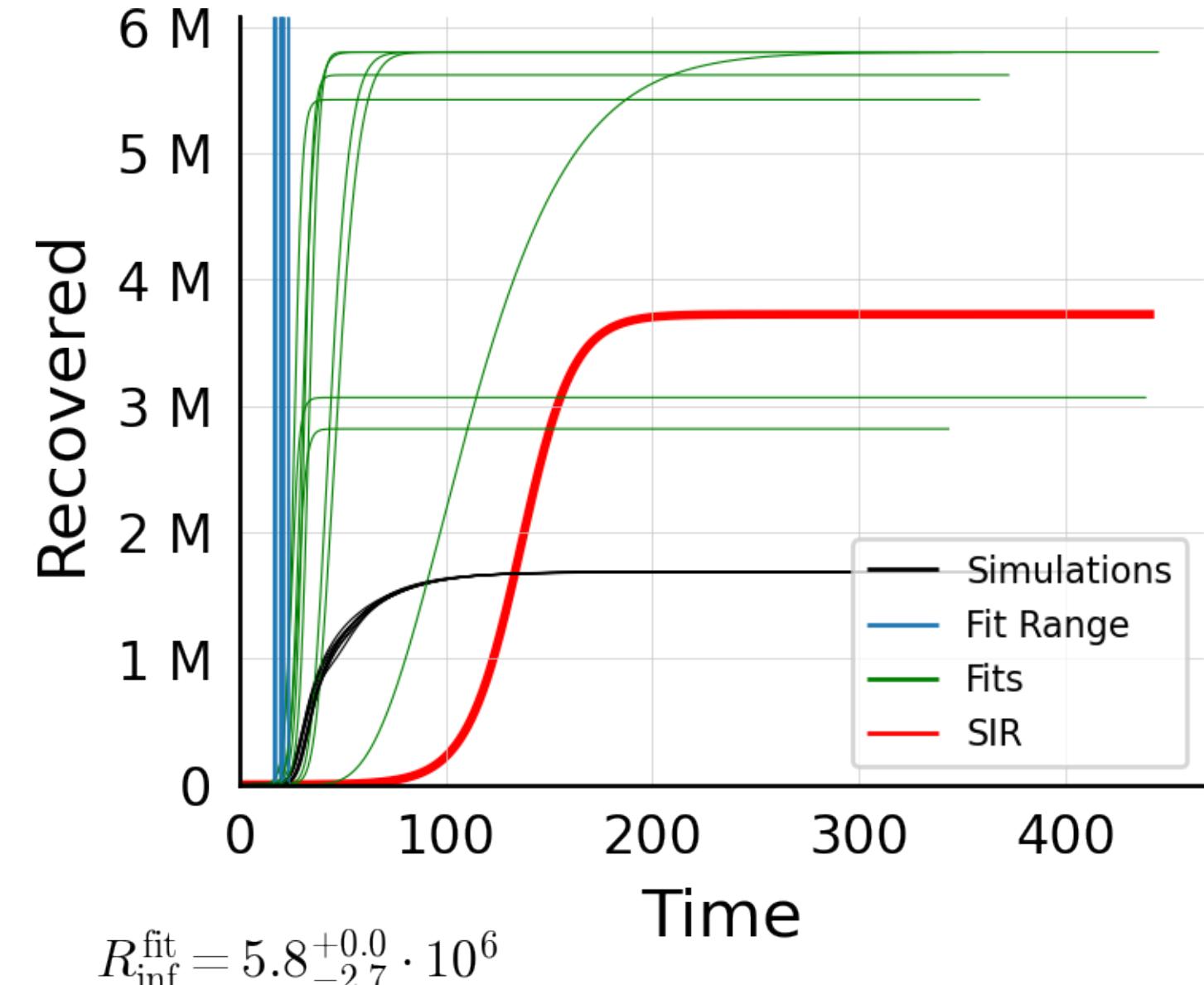
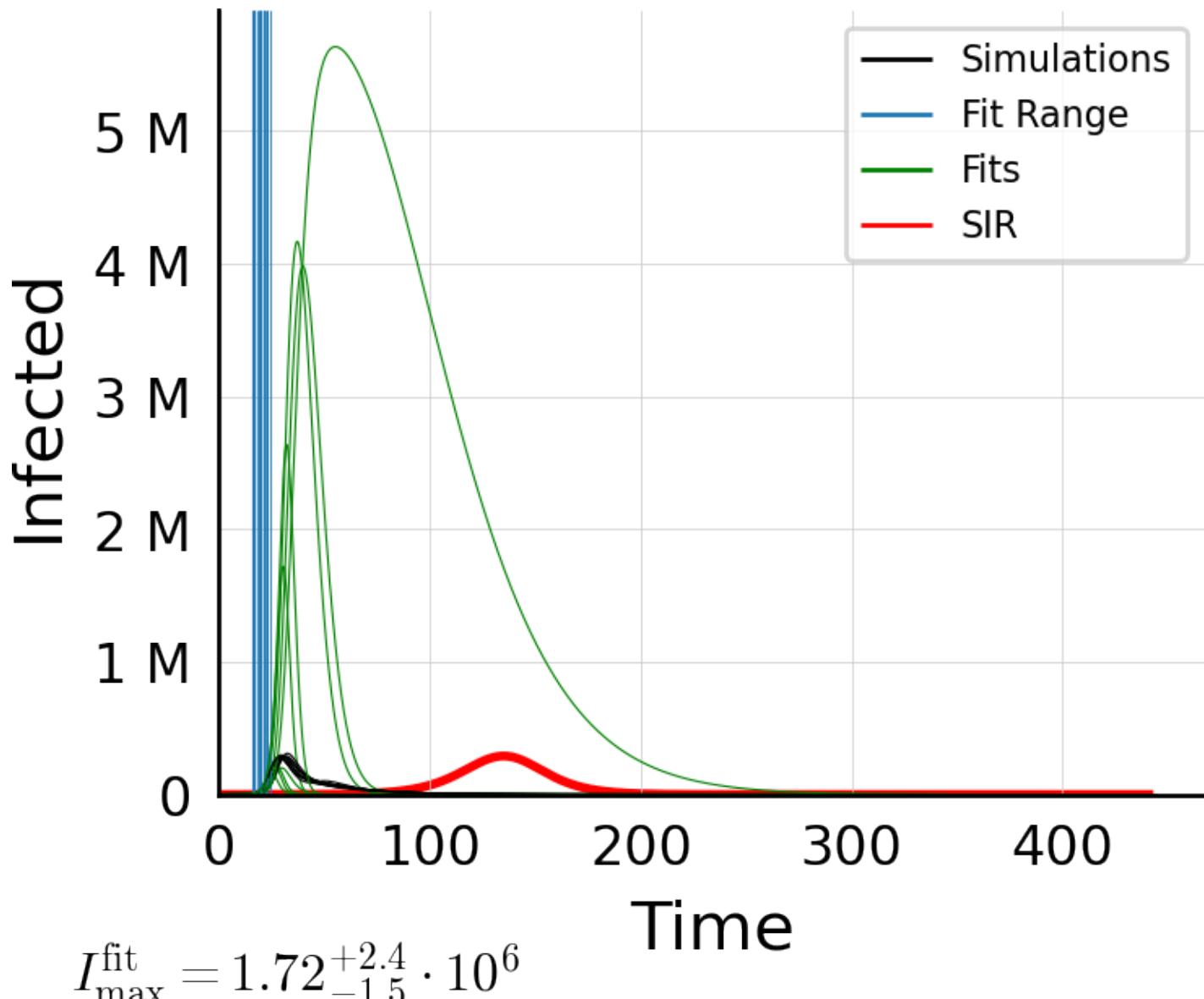
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 5.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



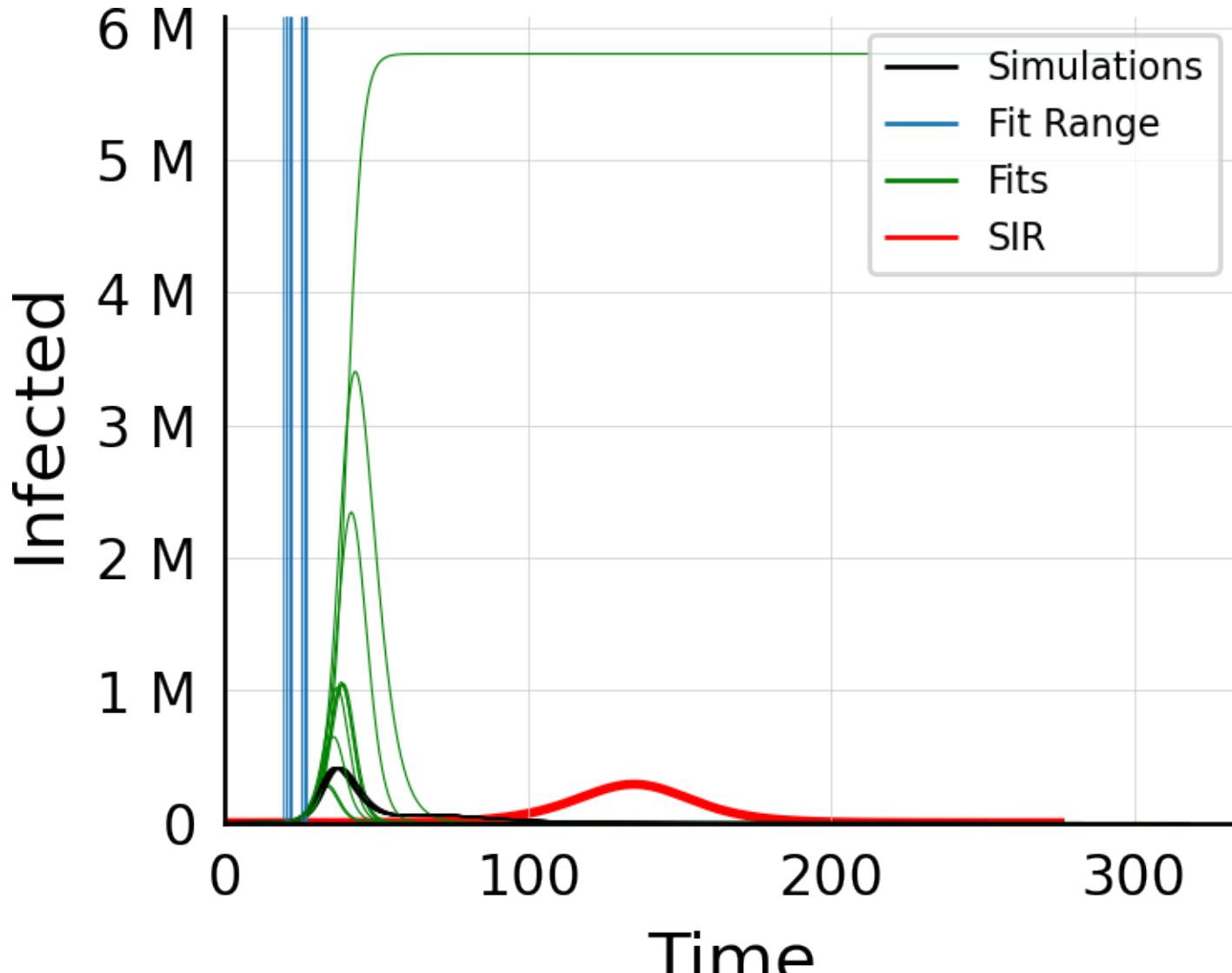
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 50.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



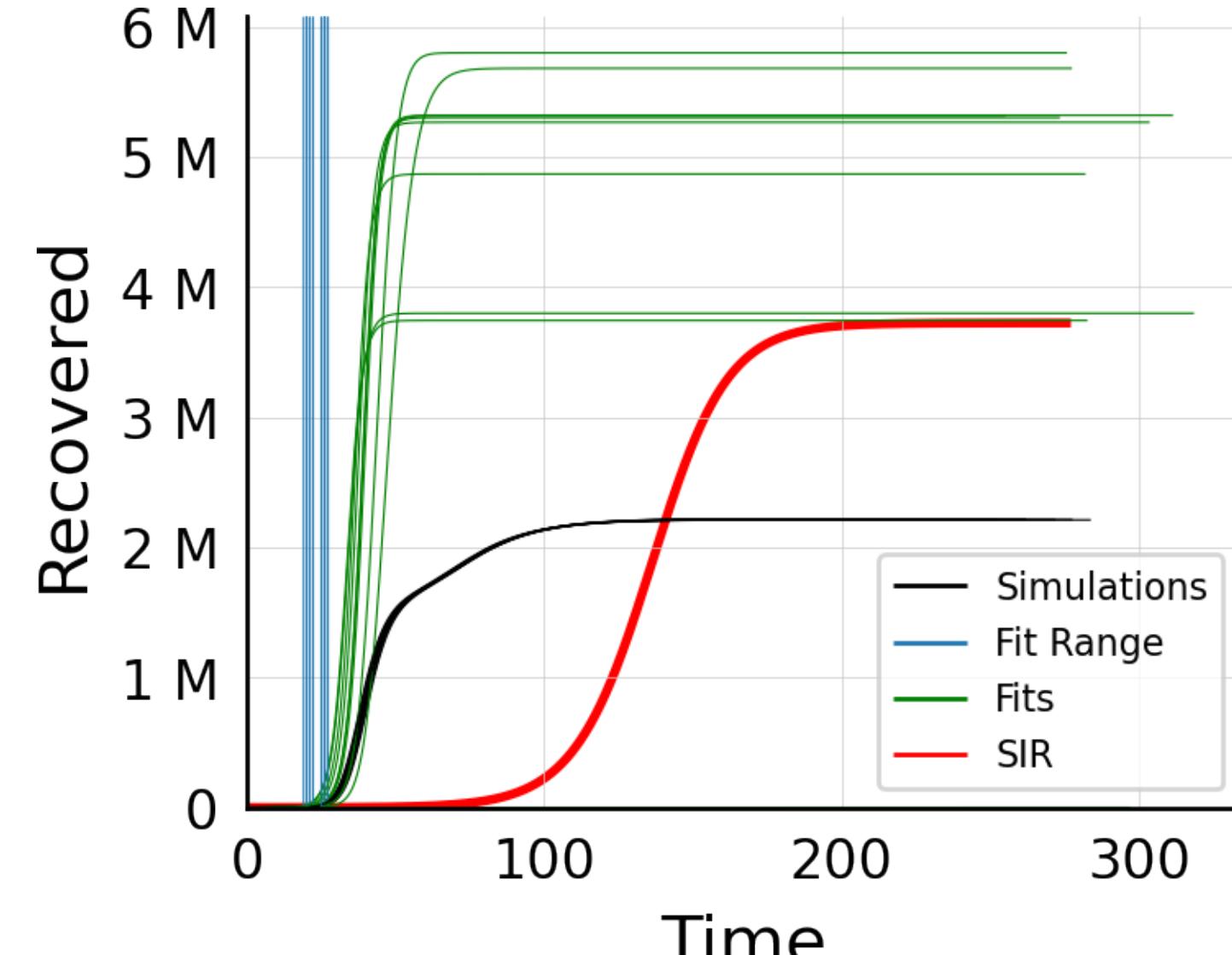
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 500.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #9



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 75.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10

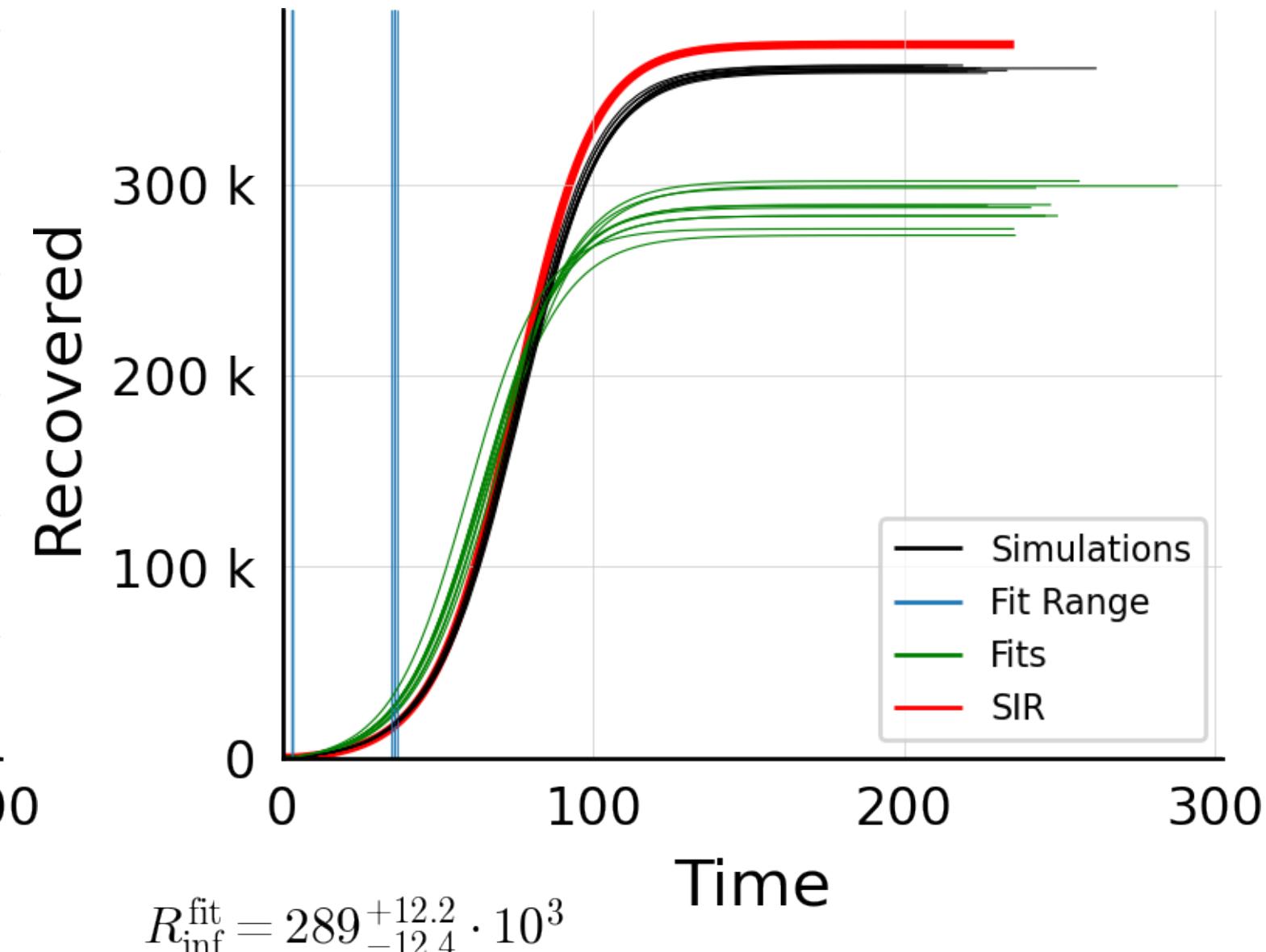
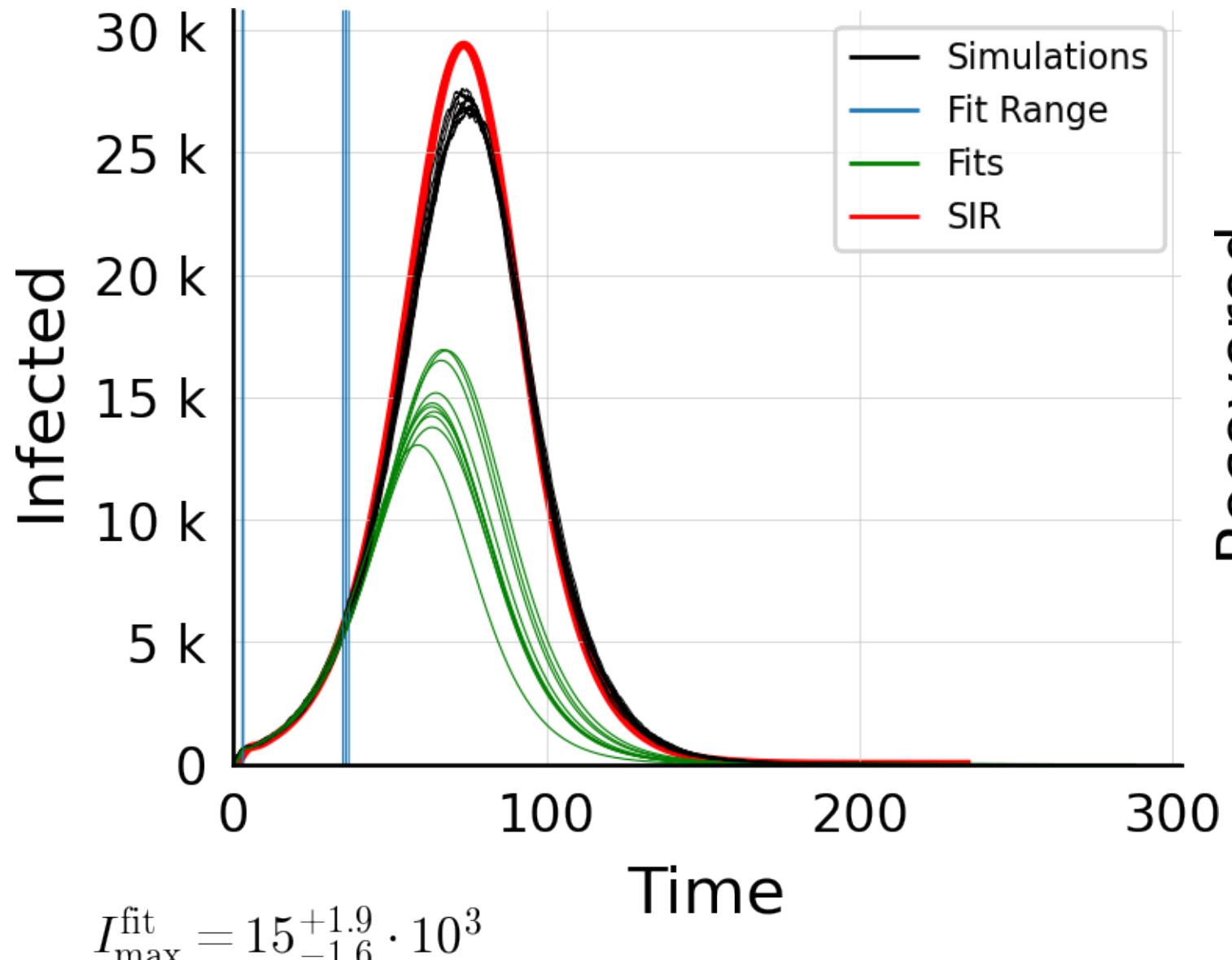


$$I_{\text{max}}^{\text{fit}} = 1.04^{+2.3}_{-0.8} \cdot 10^6$$

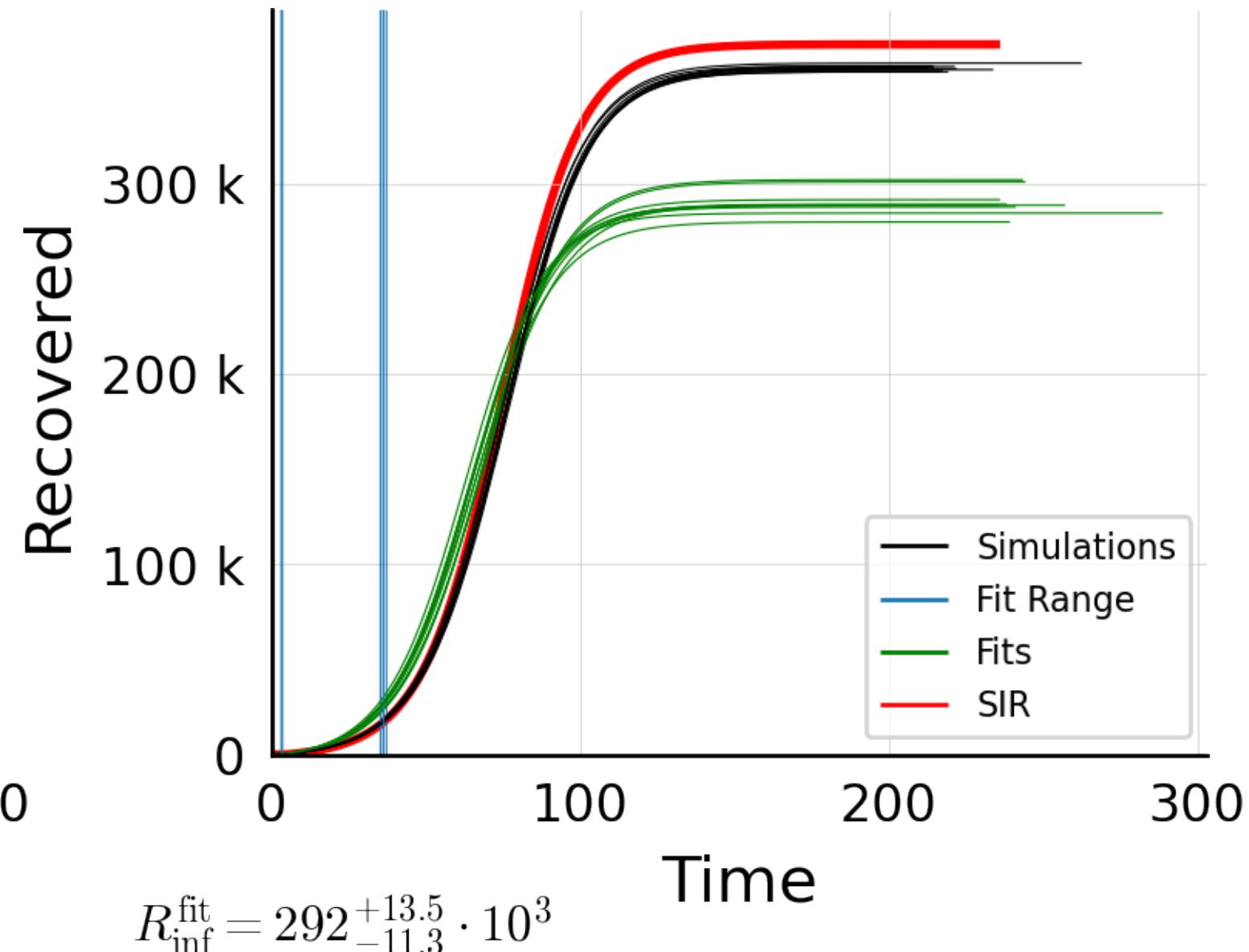
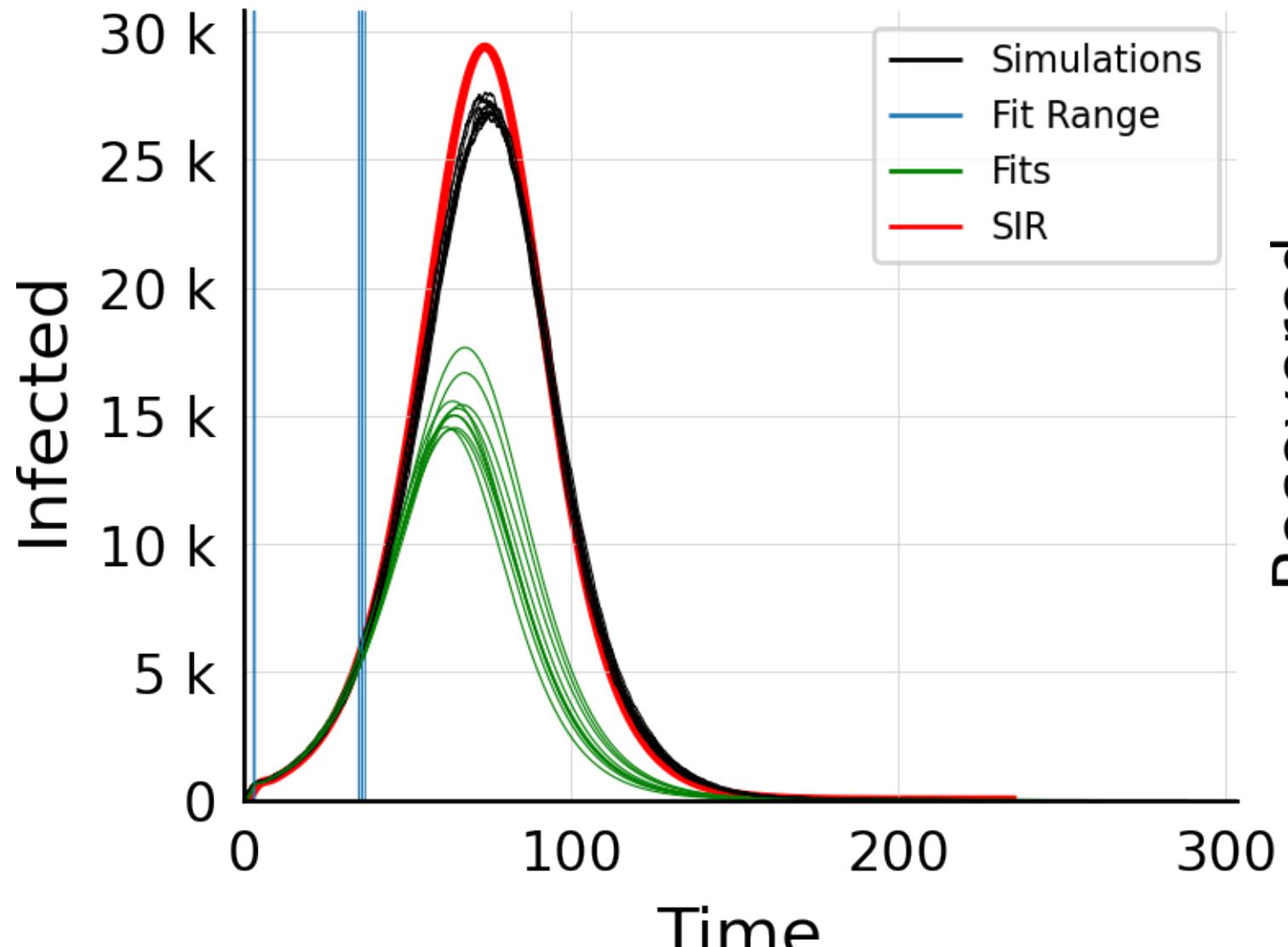


$$R_{\text{inf}}^{\text{fit}} = 5.3^{+0.5}_{-1.5} \cdot 10^6$$

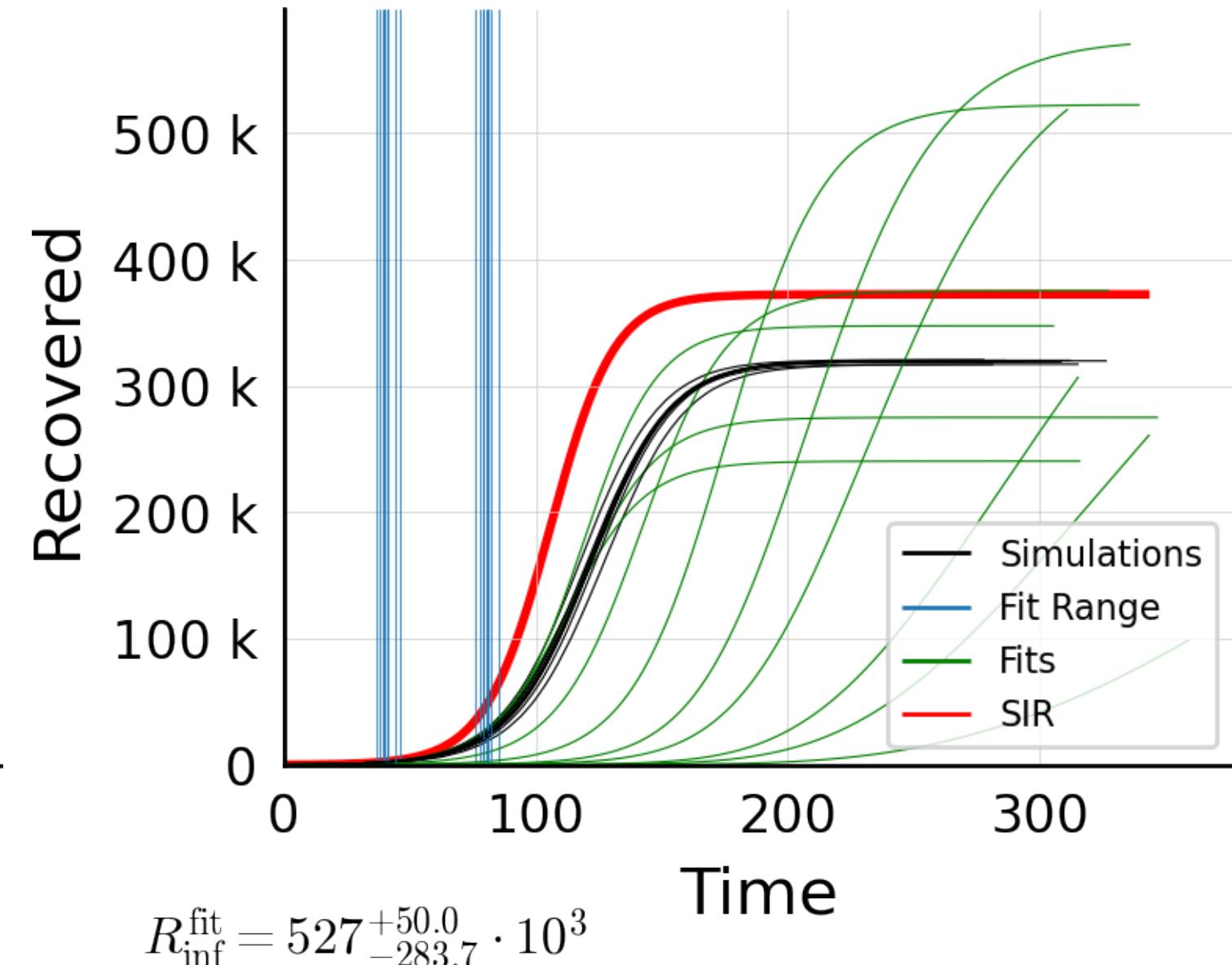
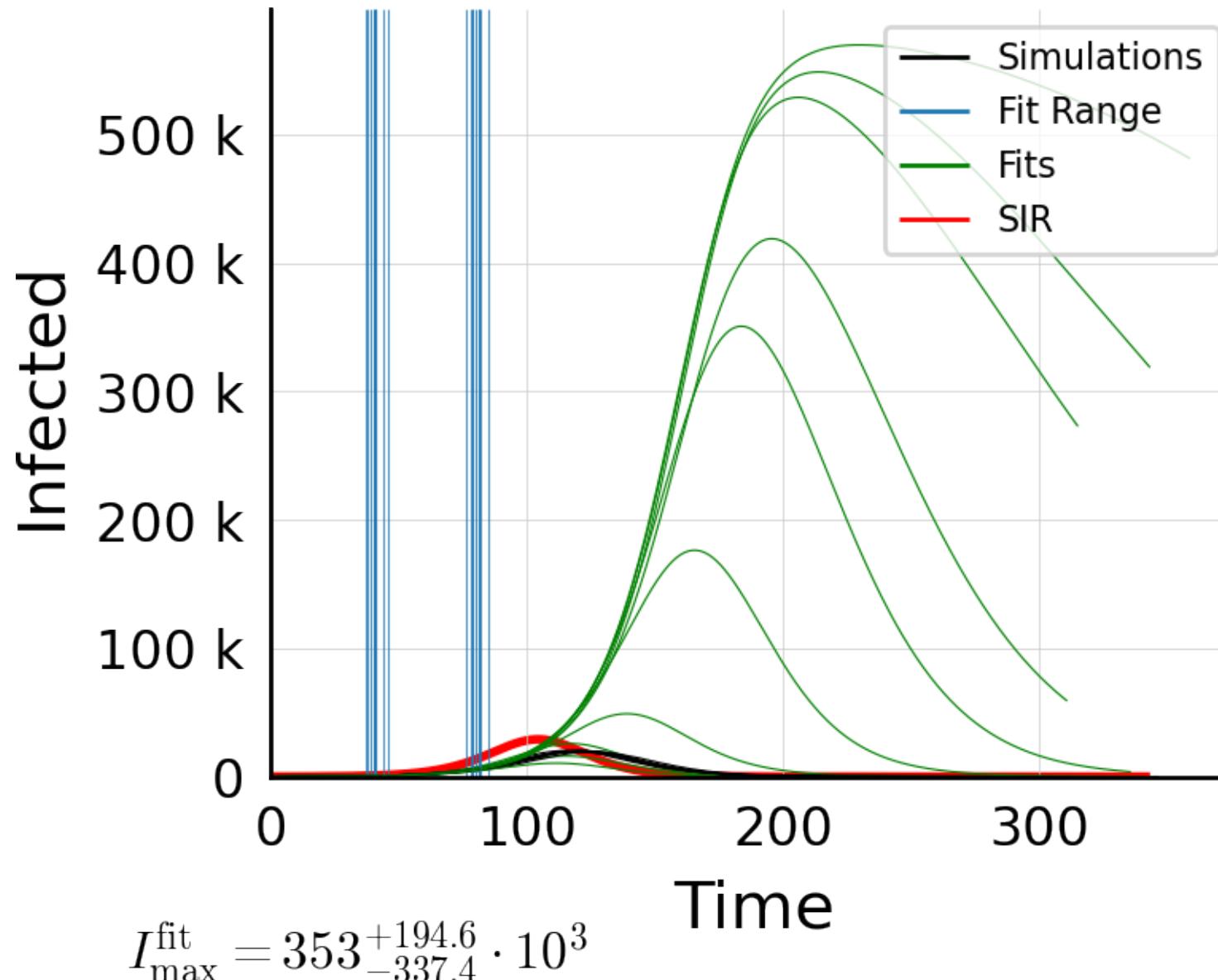
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10



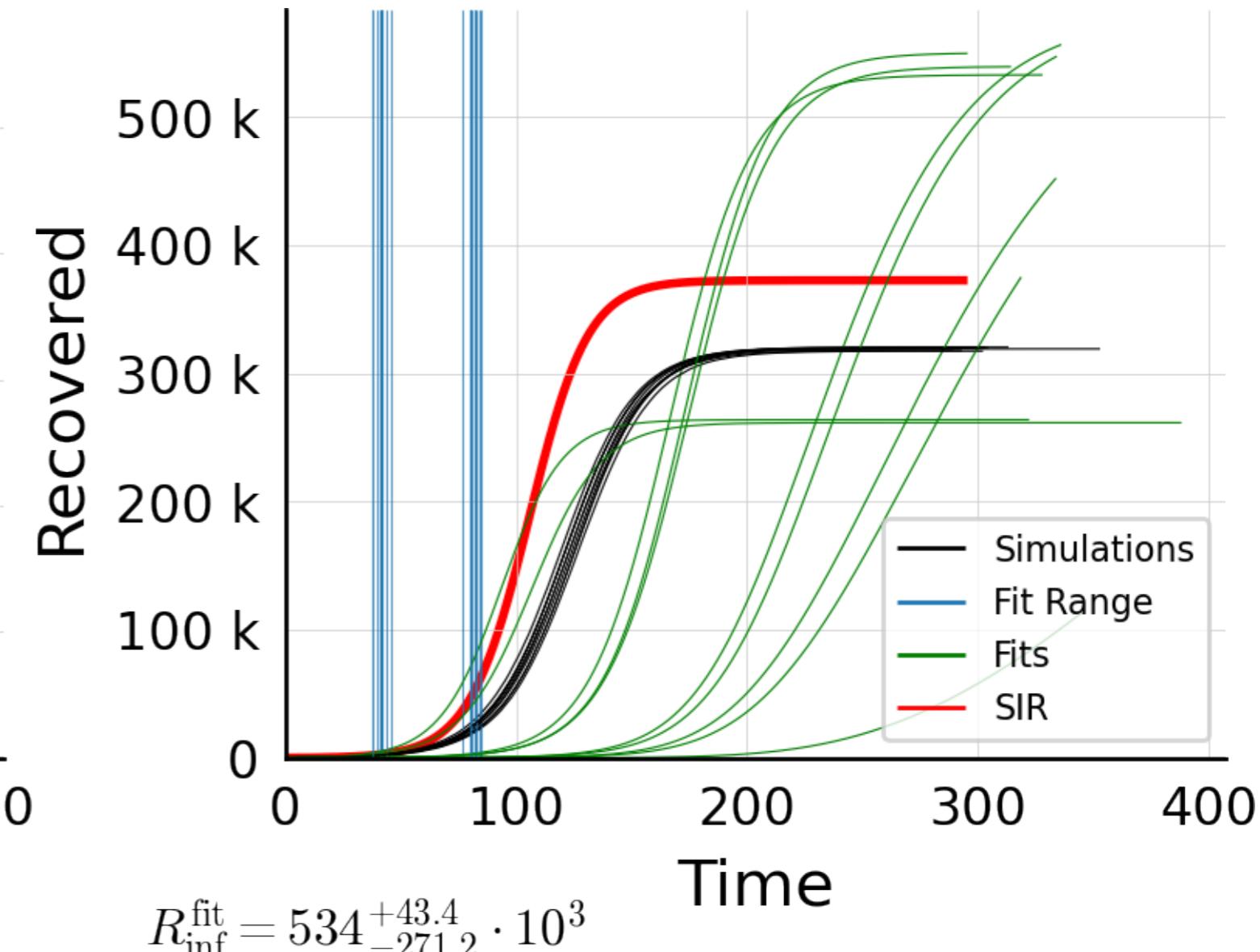
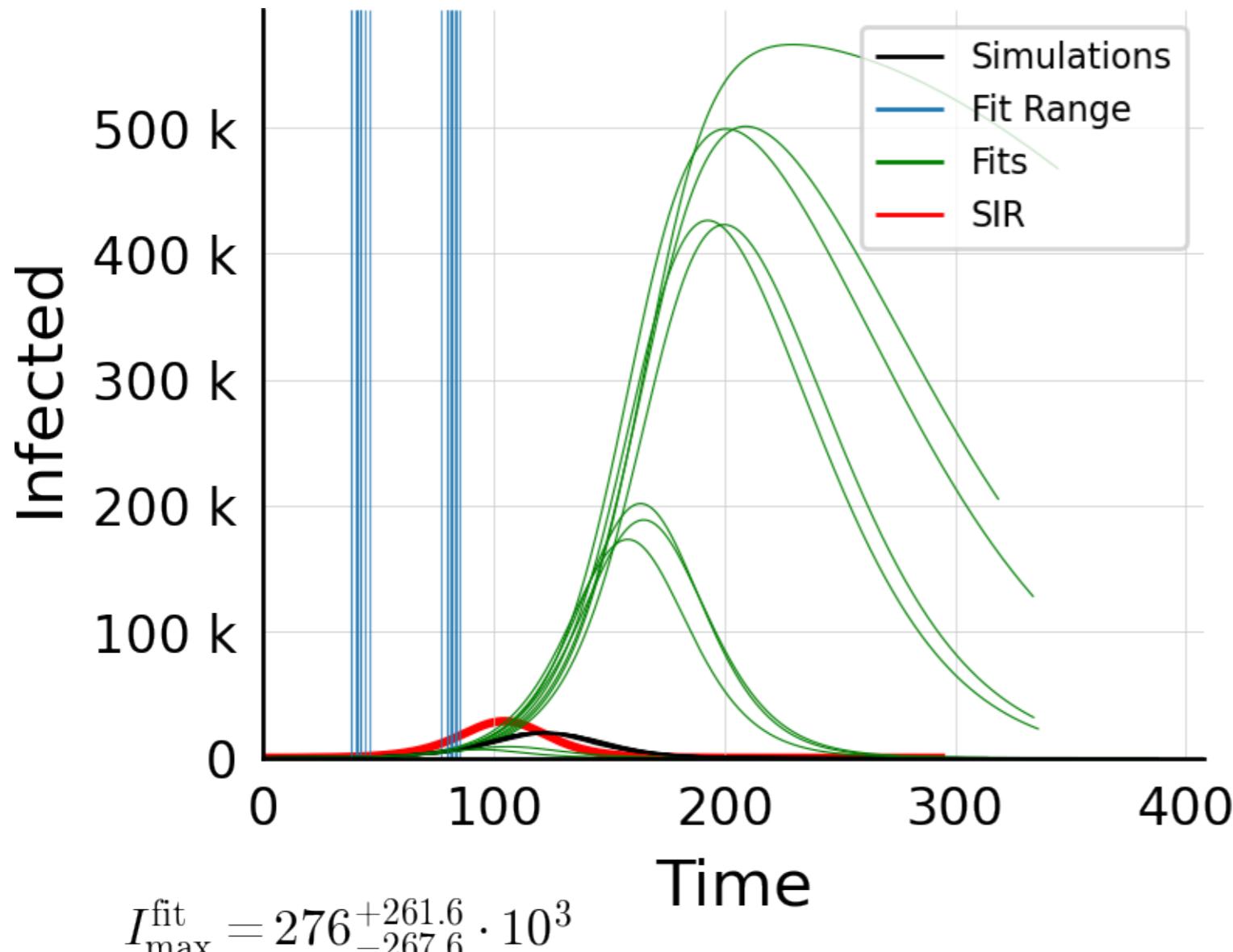
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



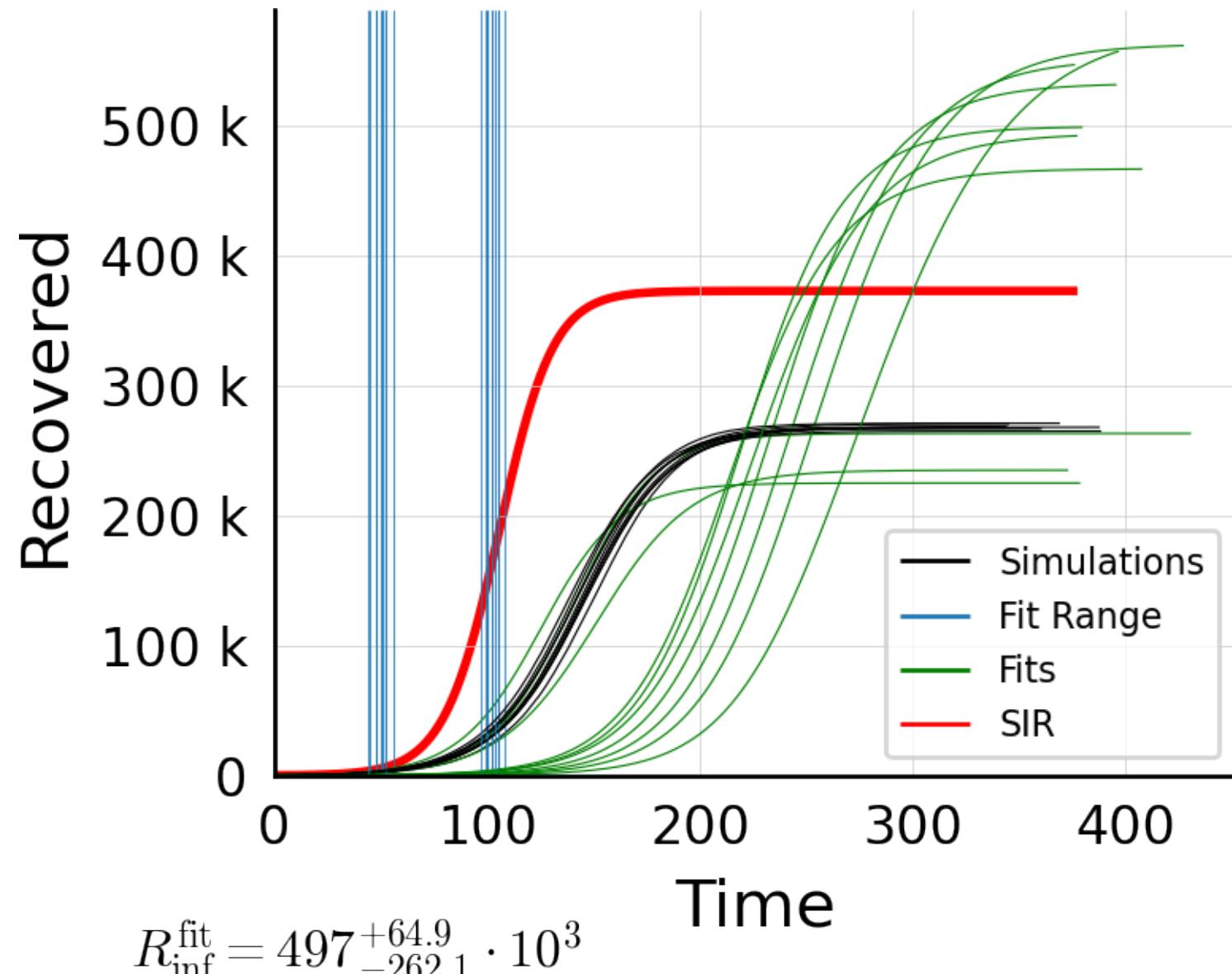
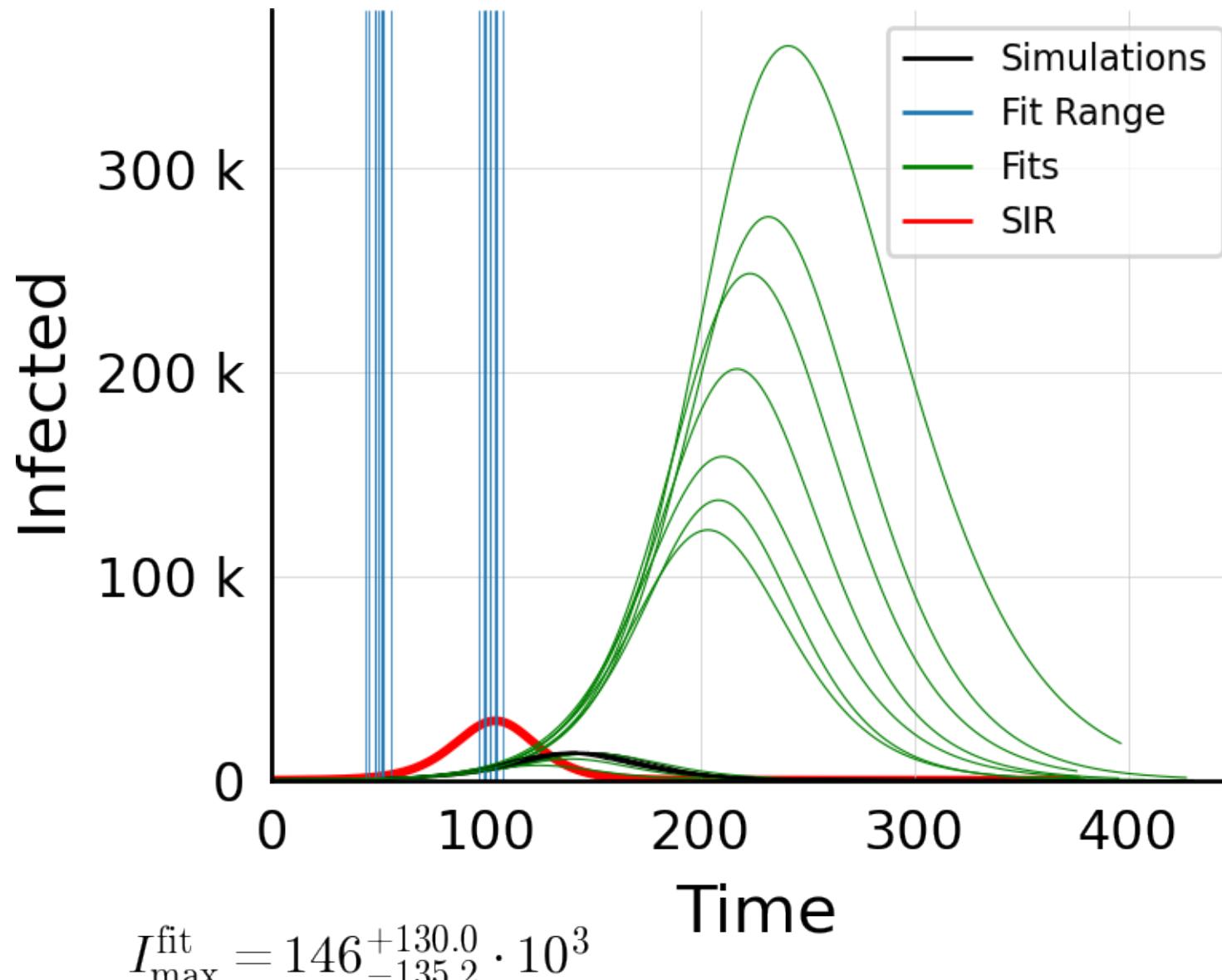
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



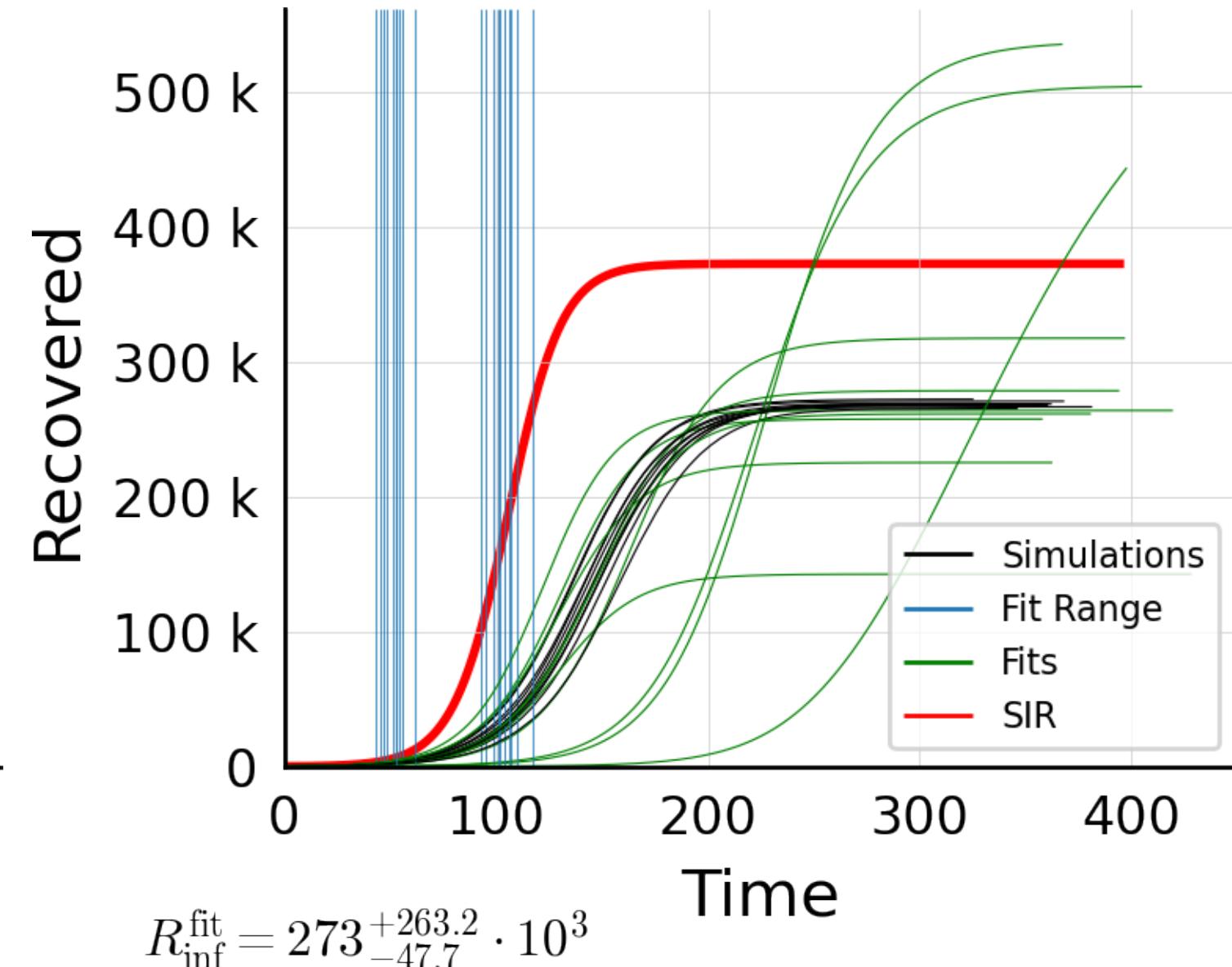
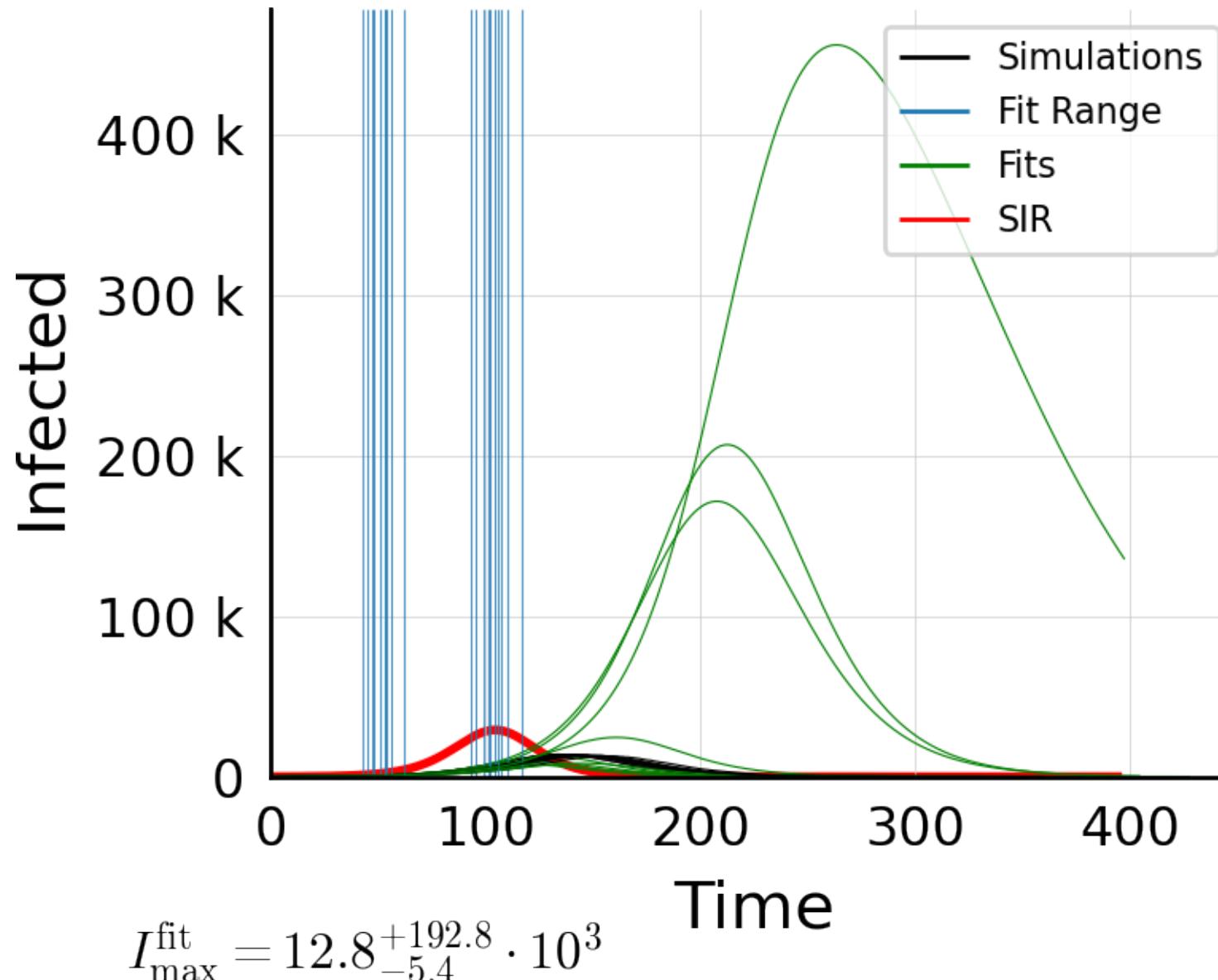
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



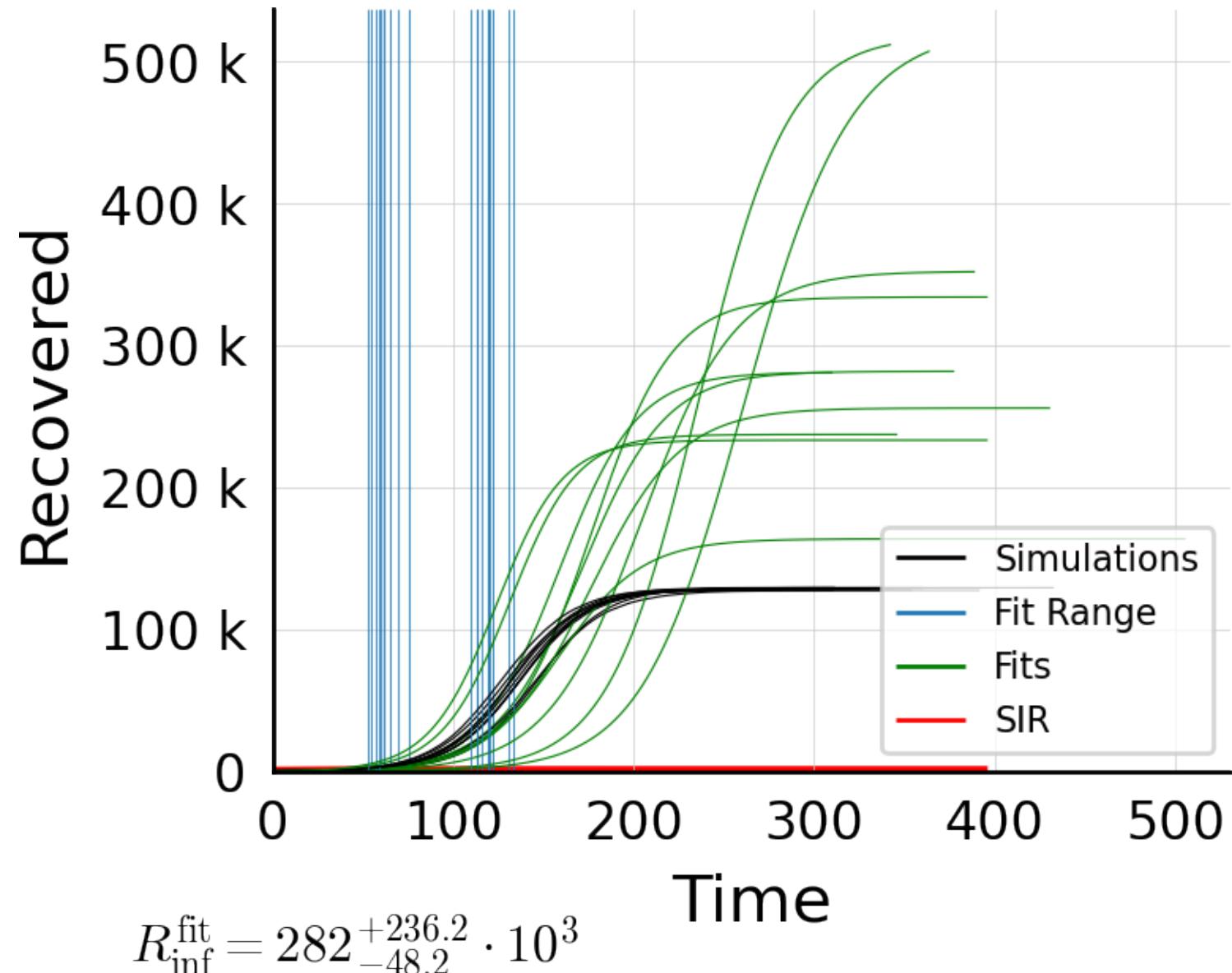
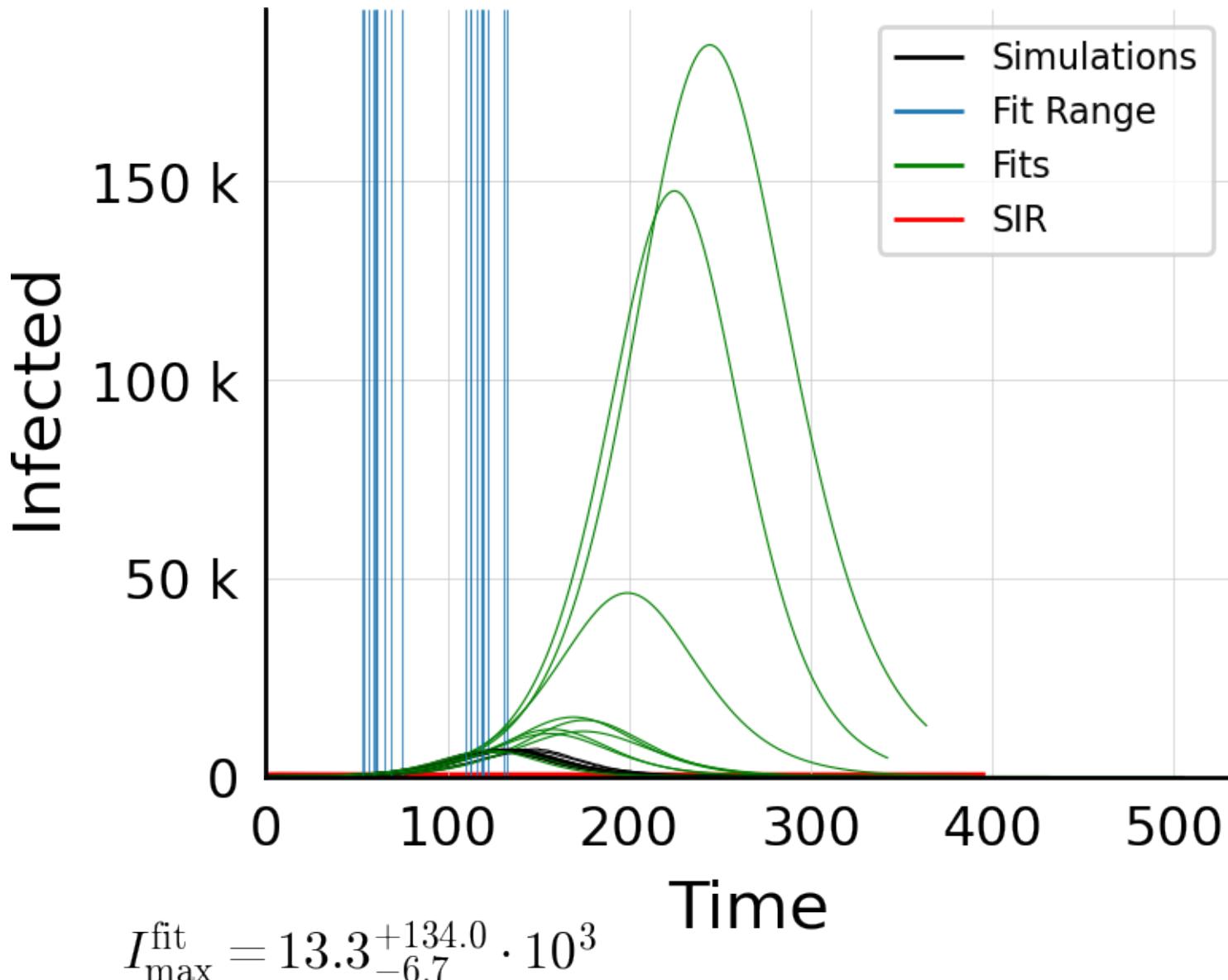
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



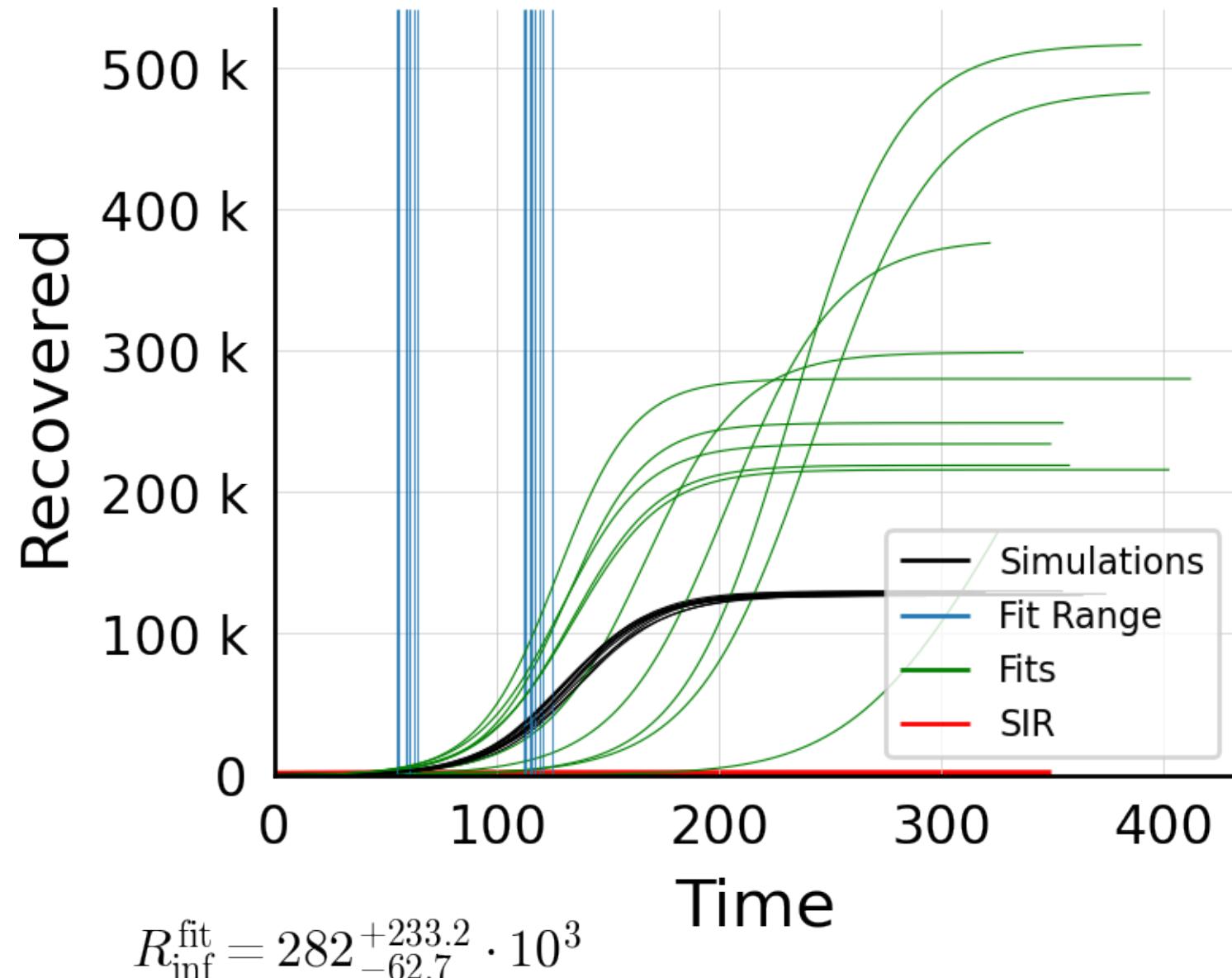
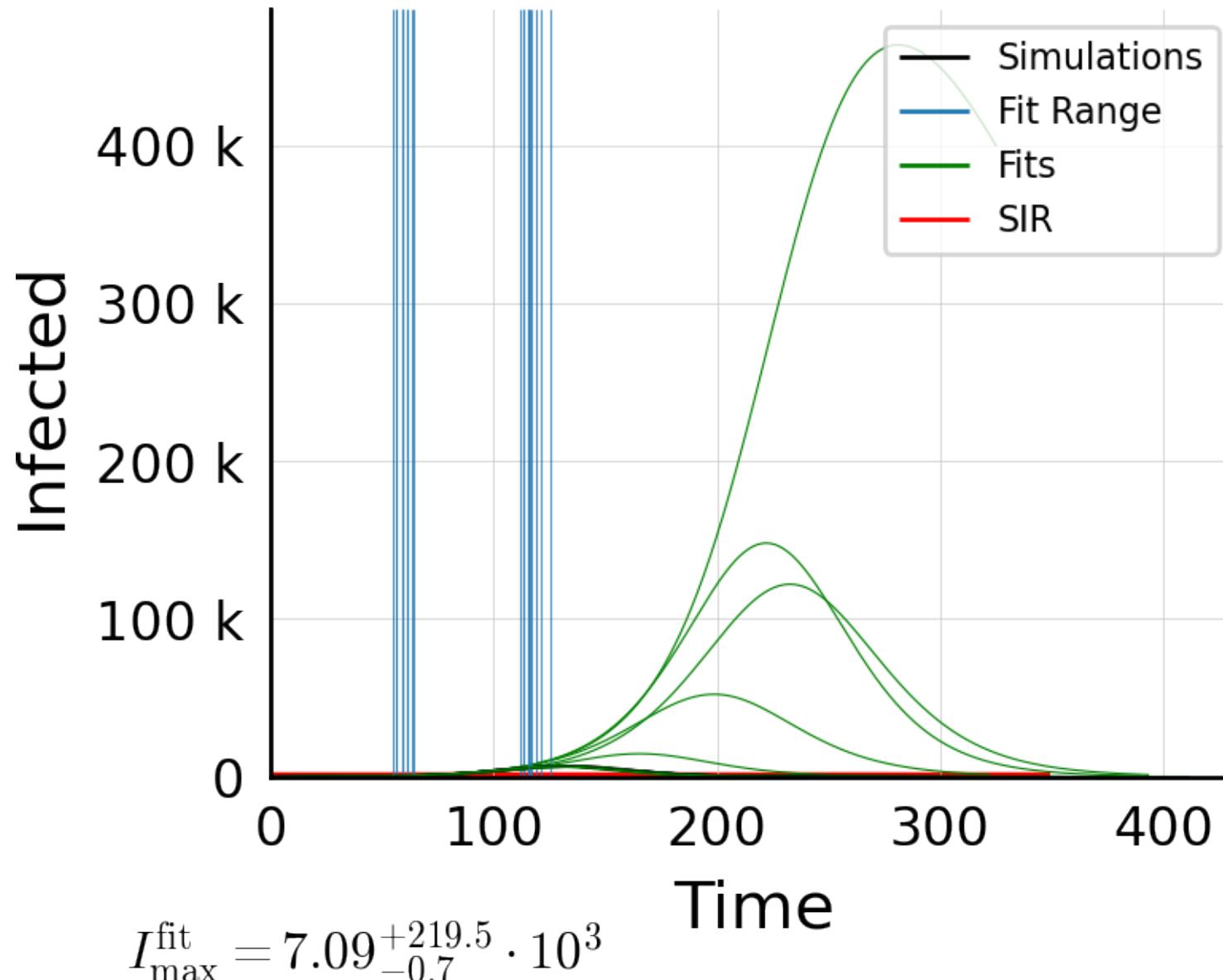
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



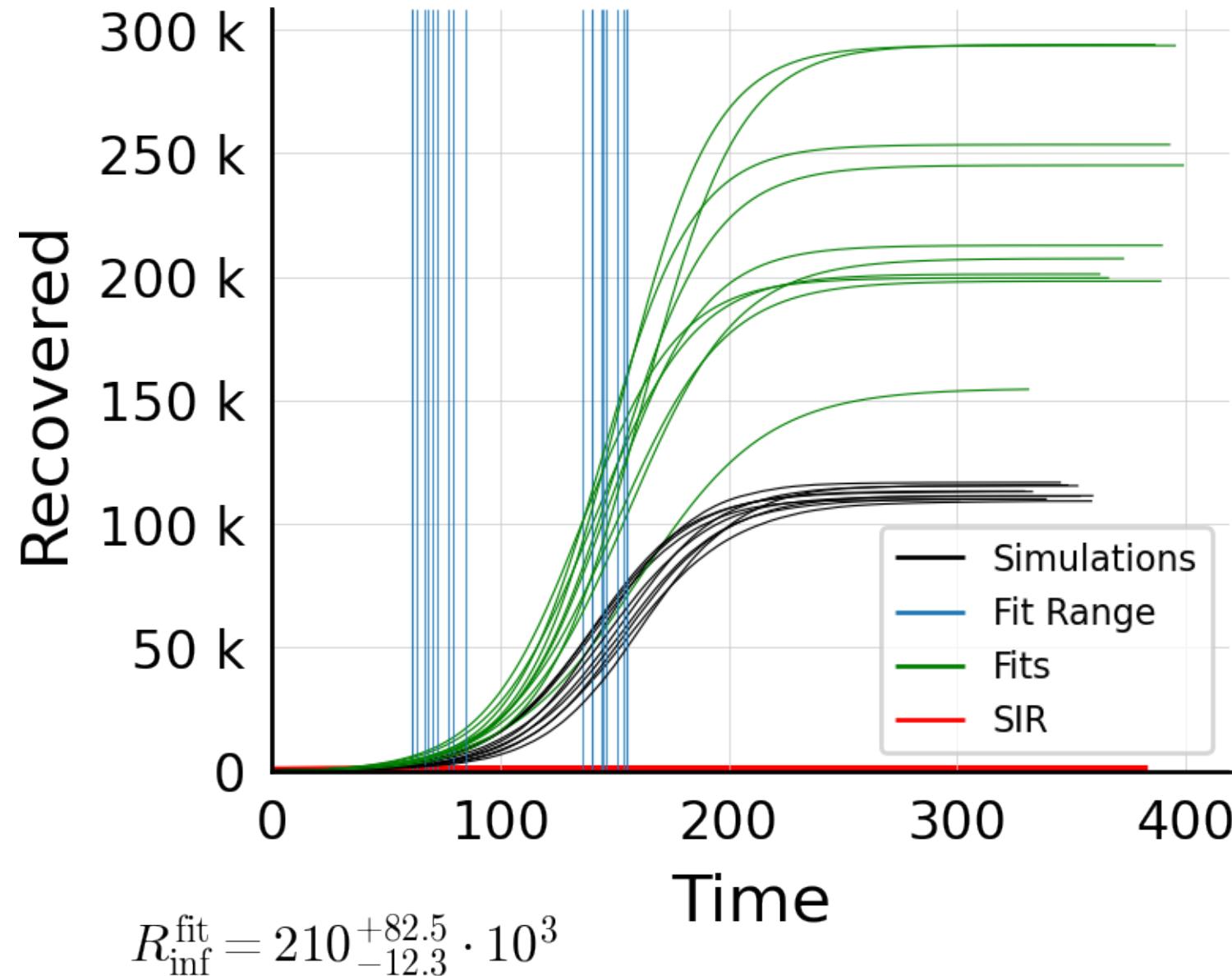
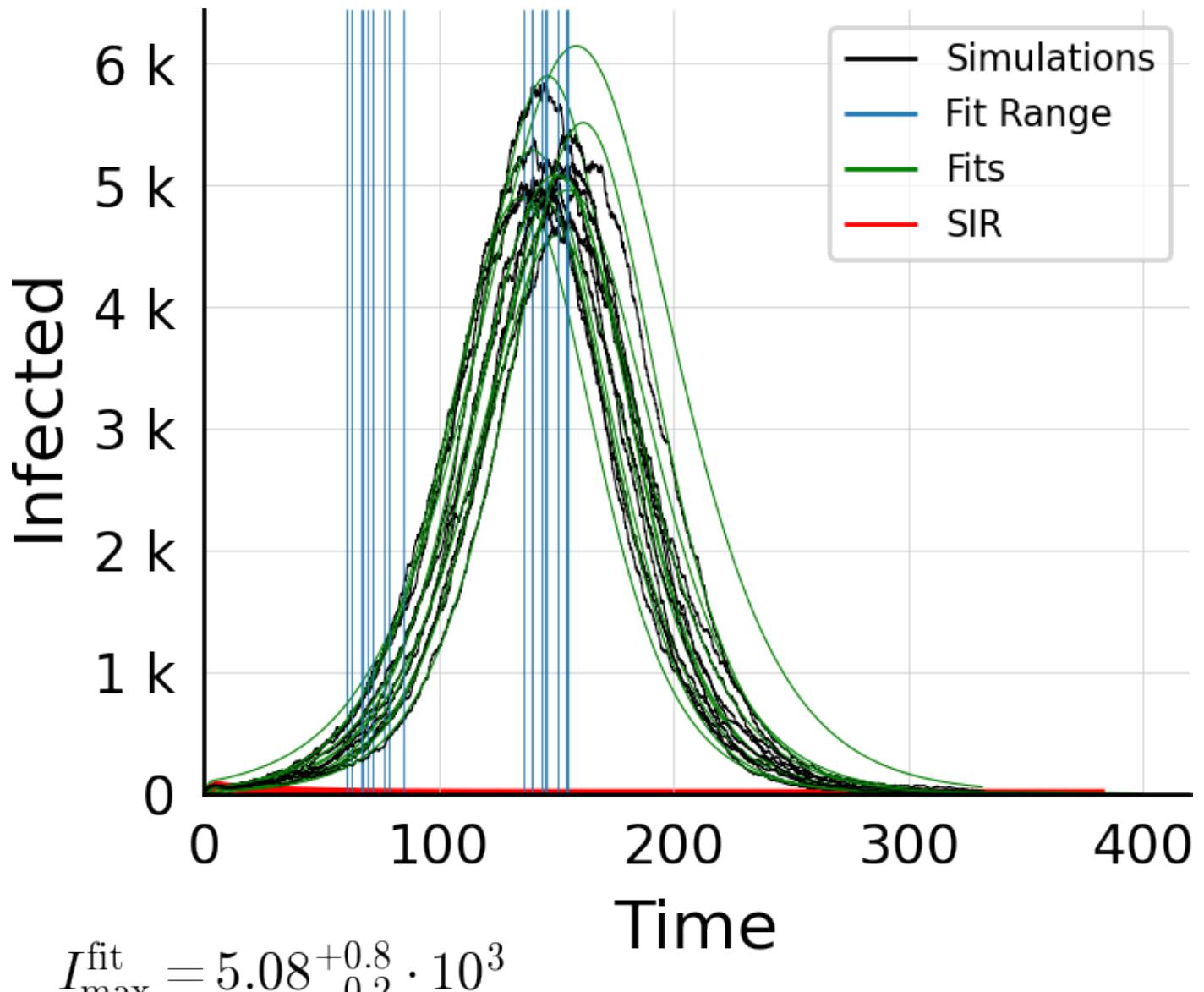
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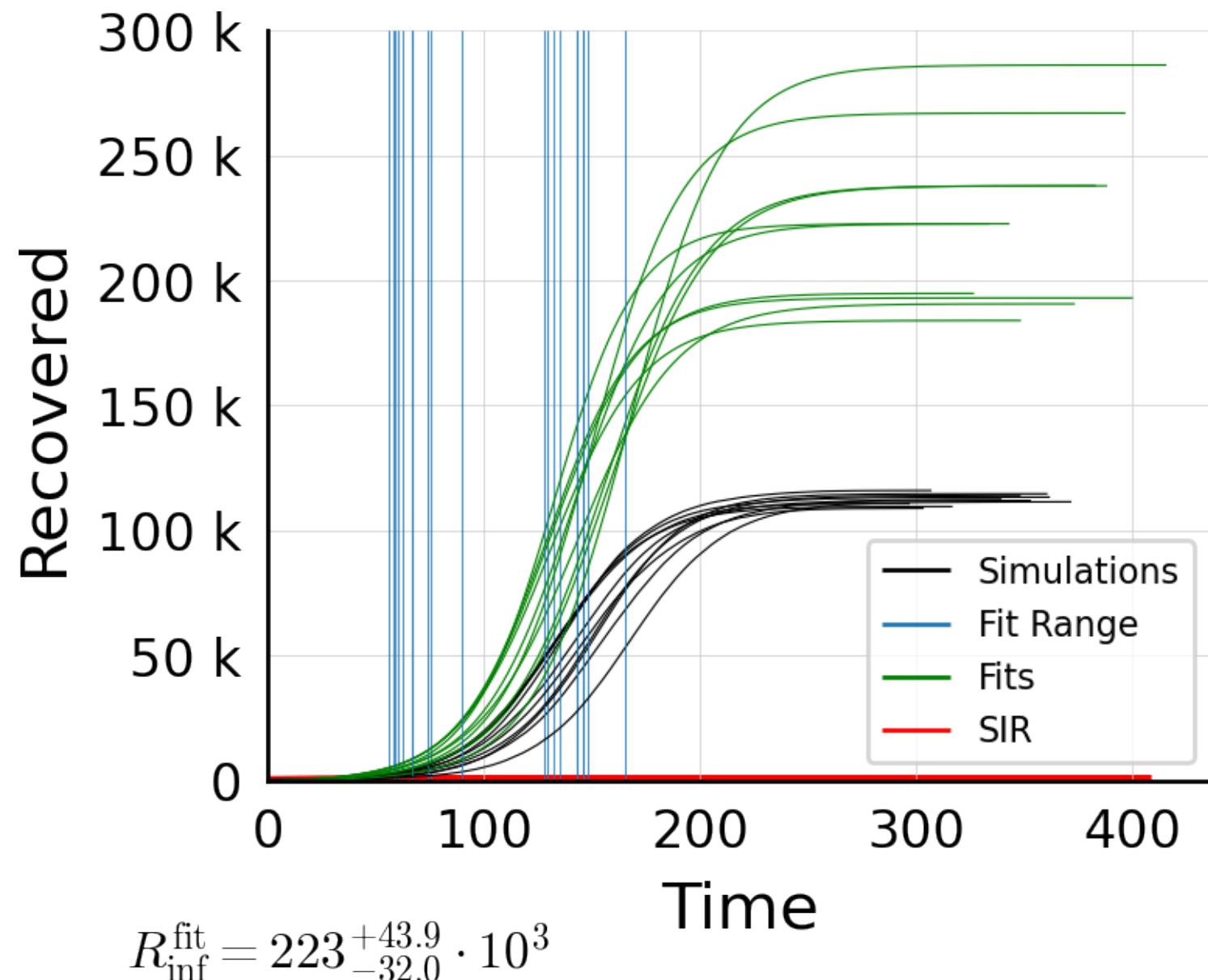
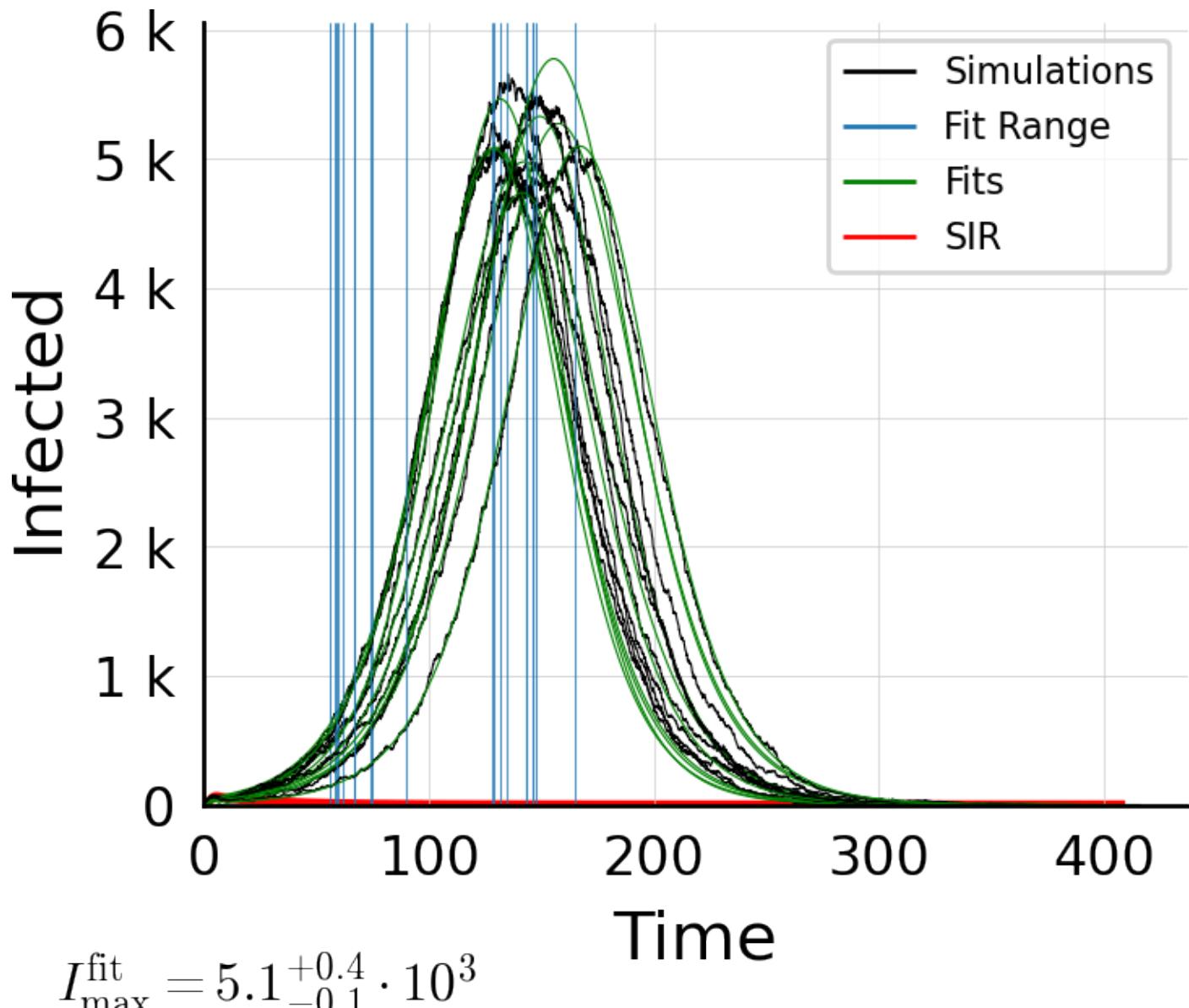
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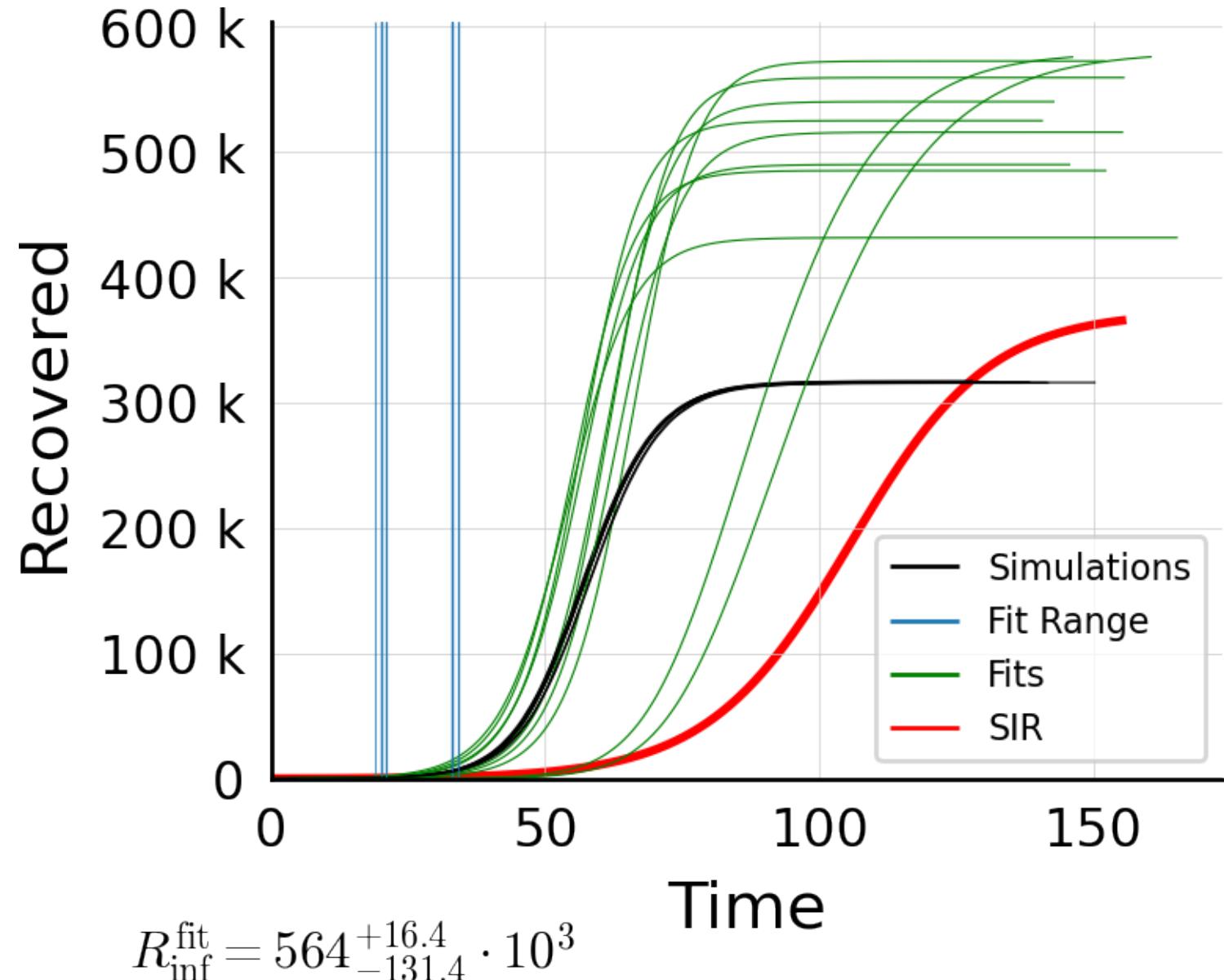
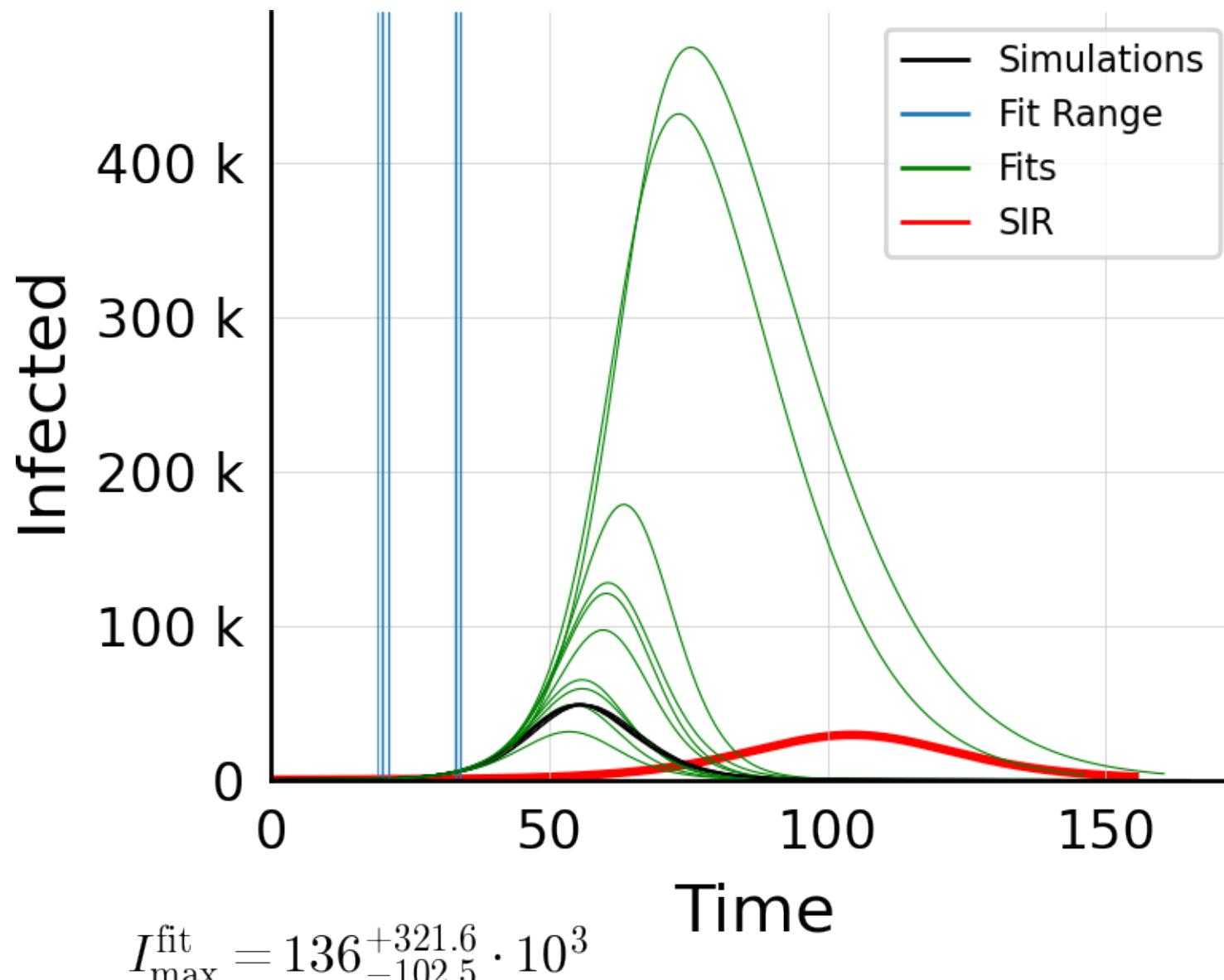
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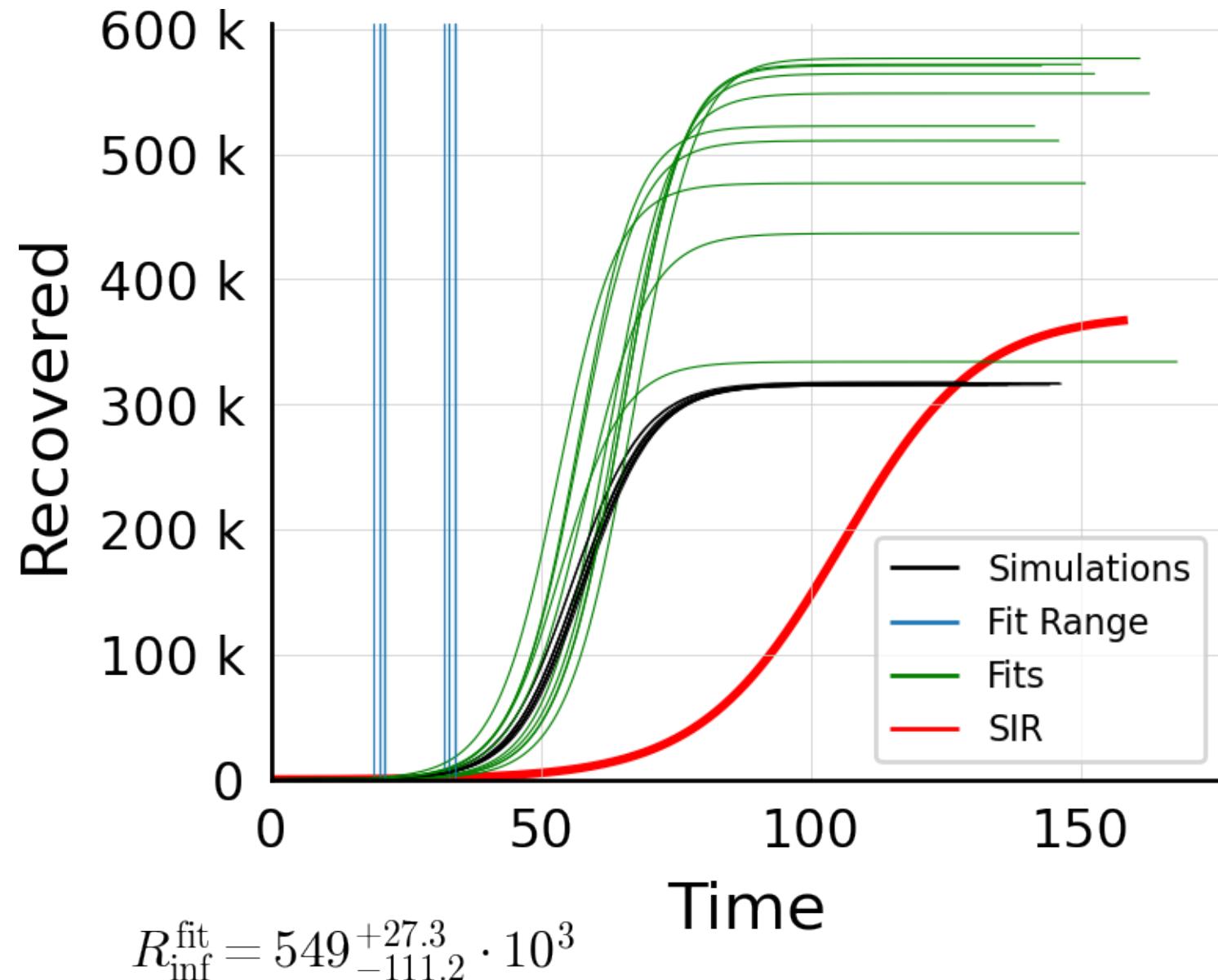
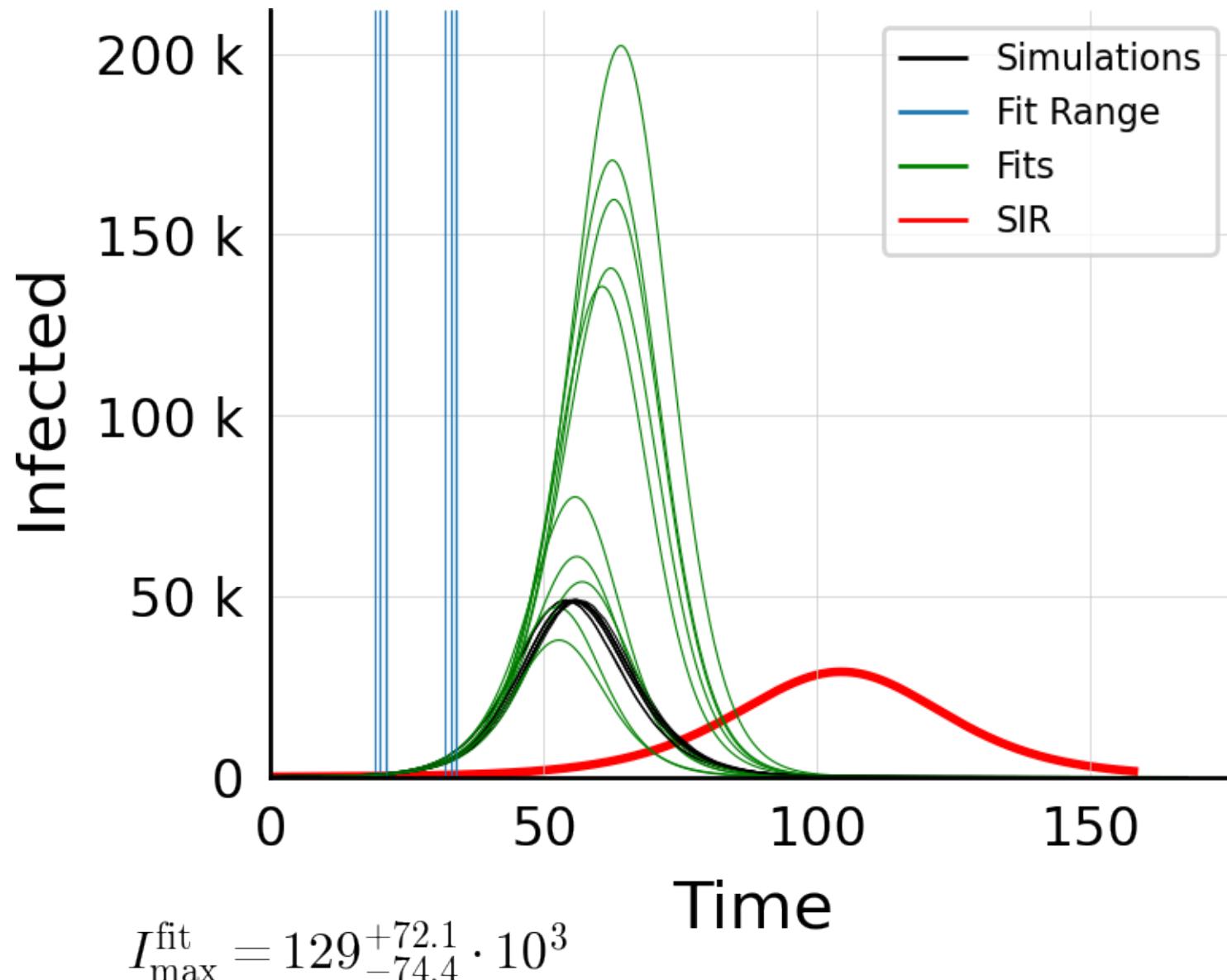
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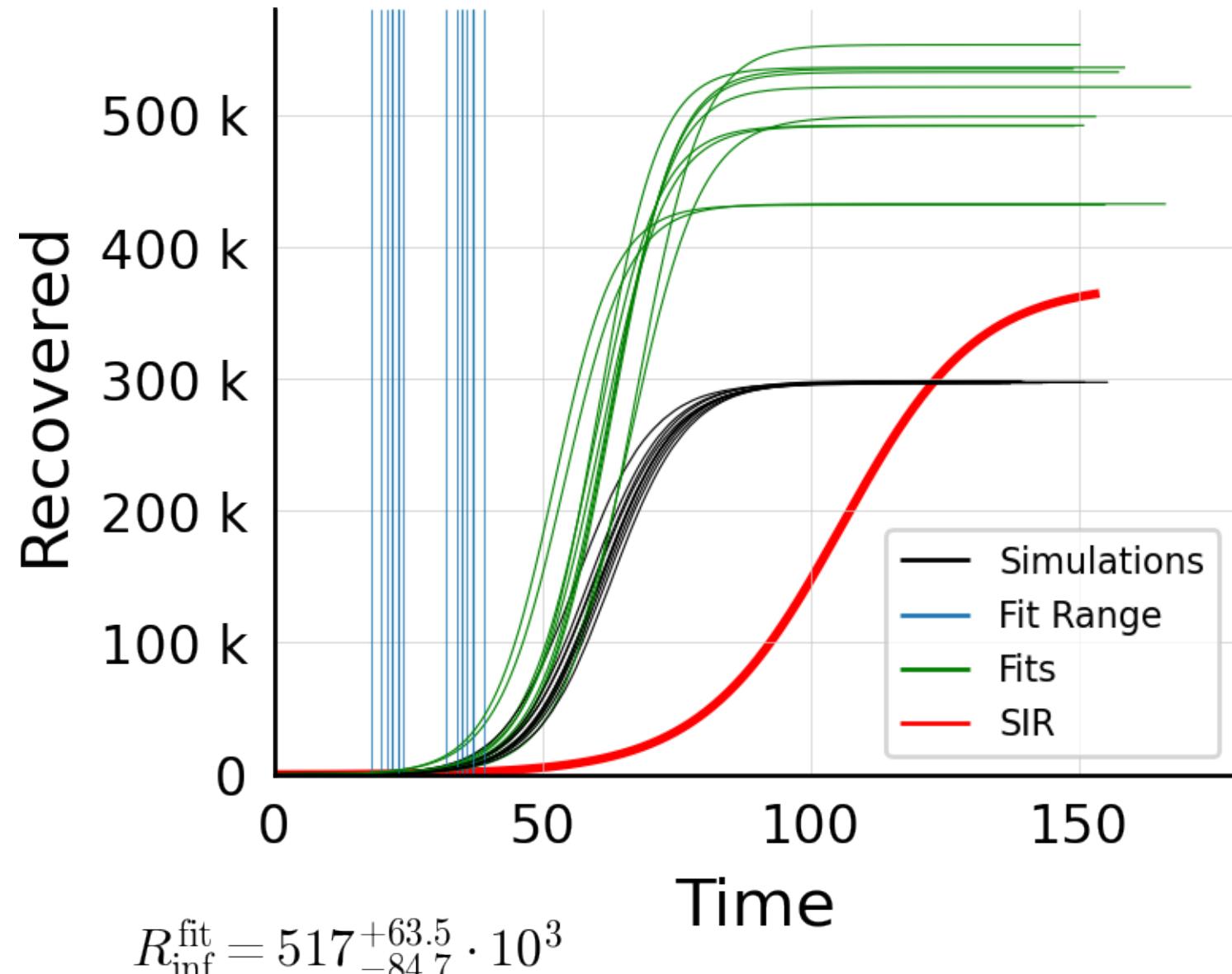
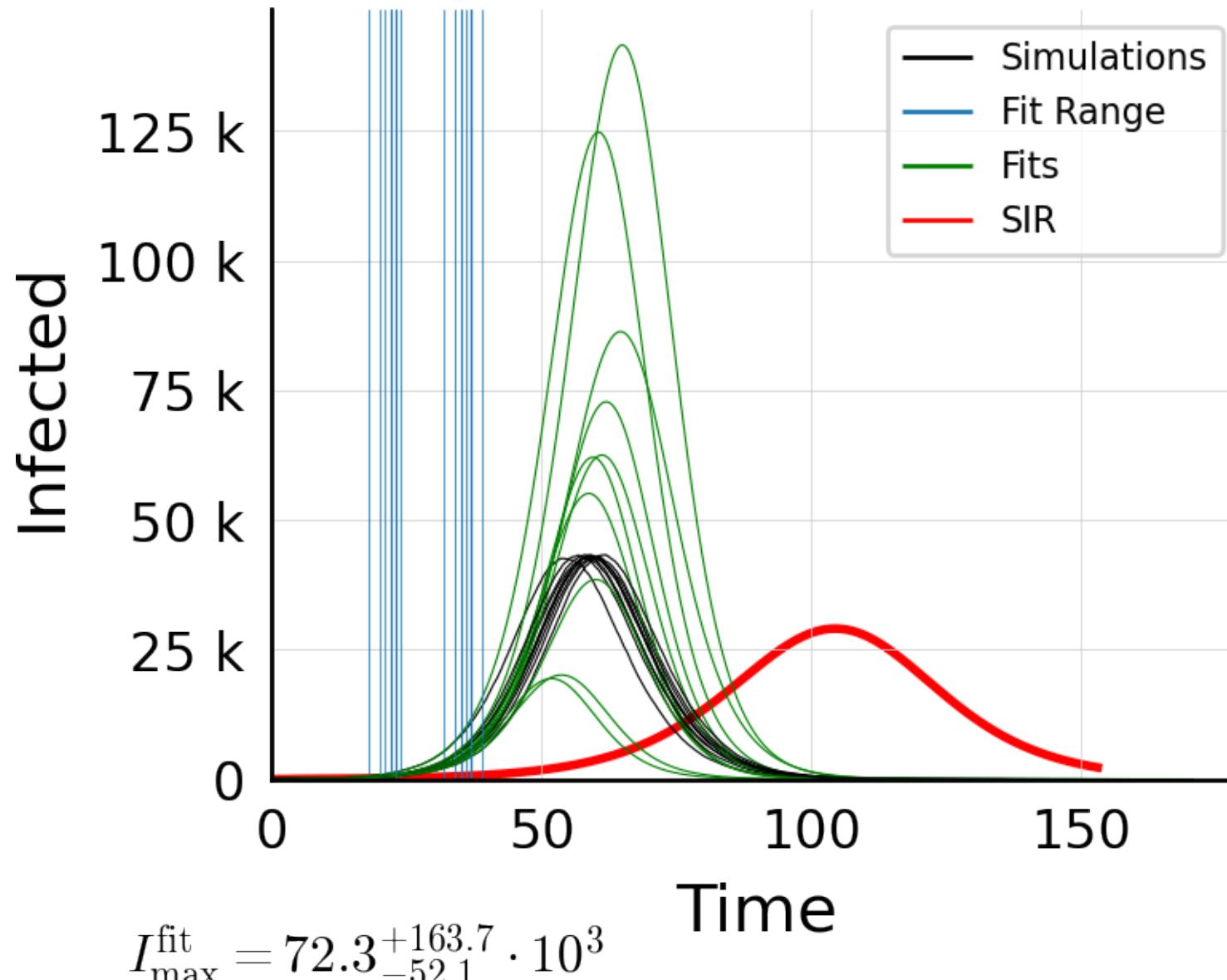
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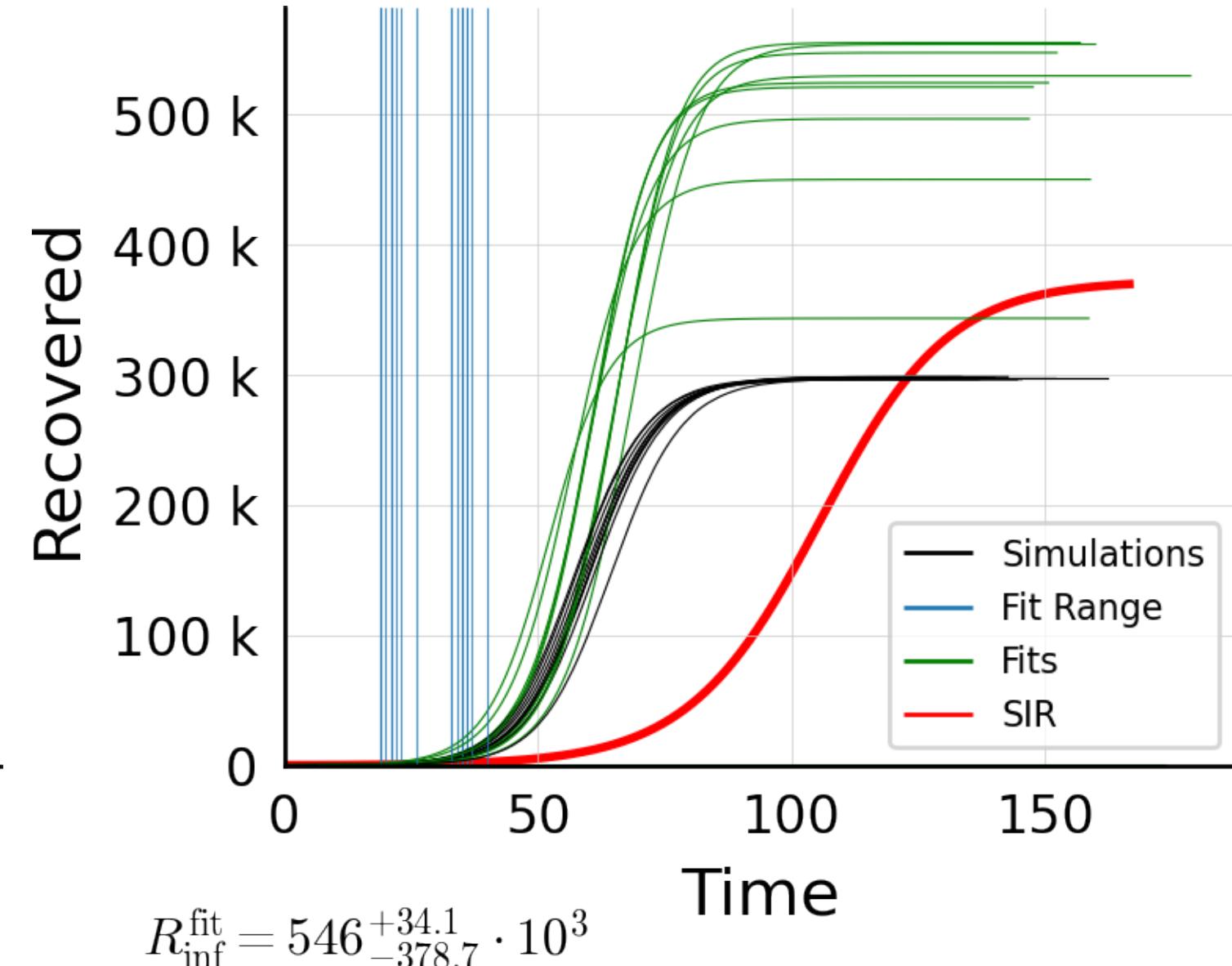
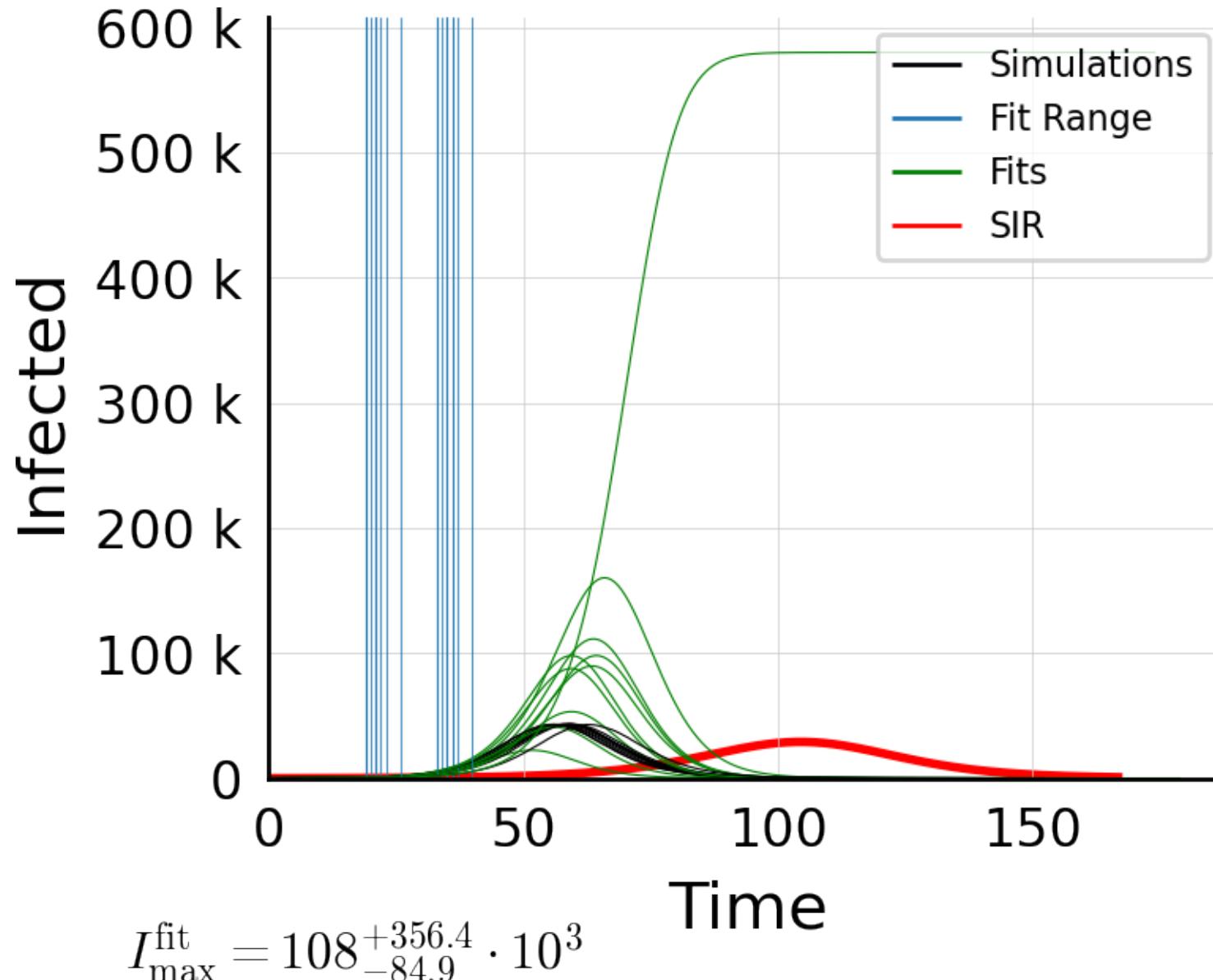
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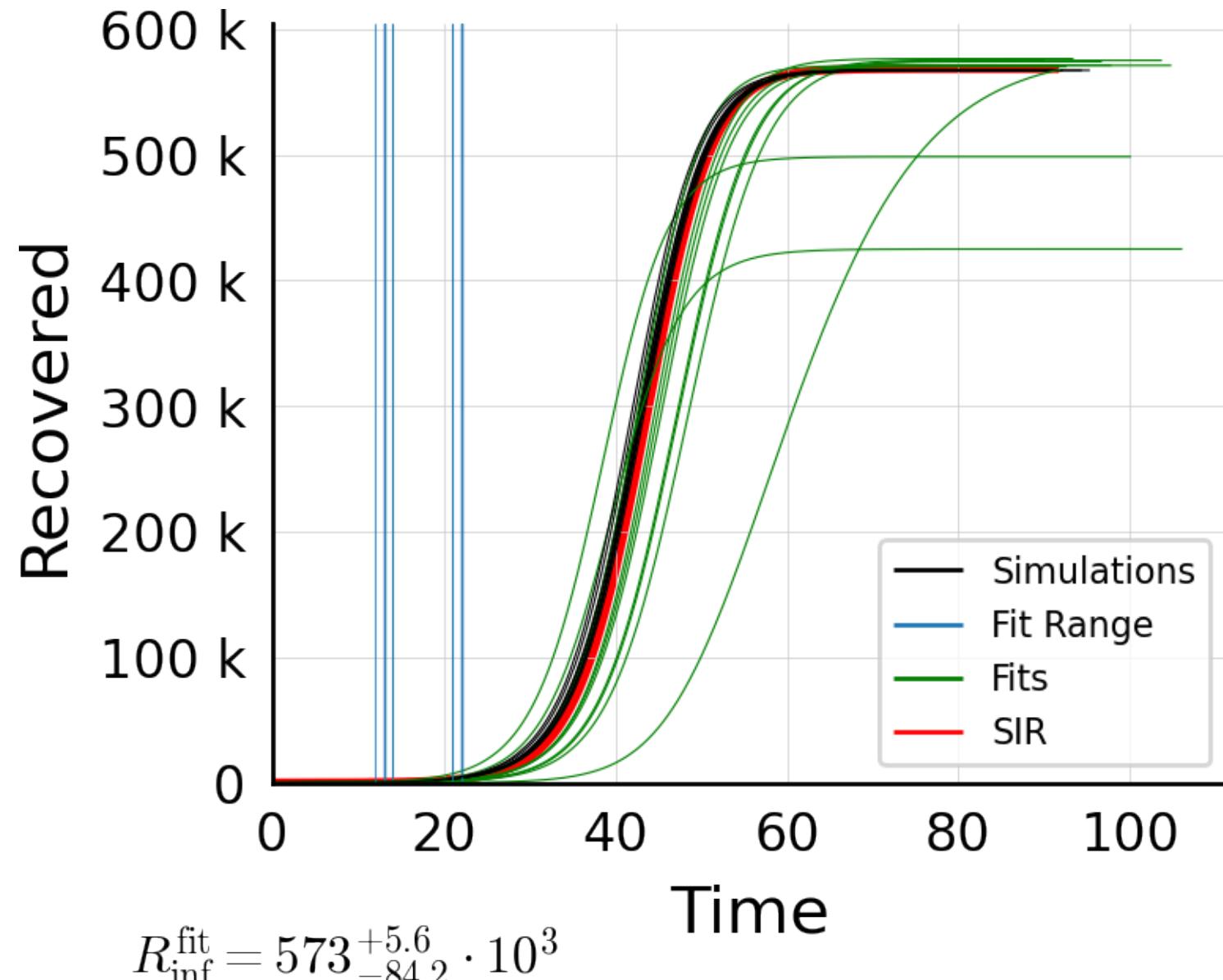
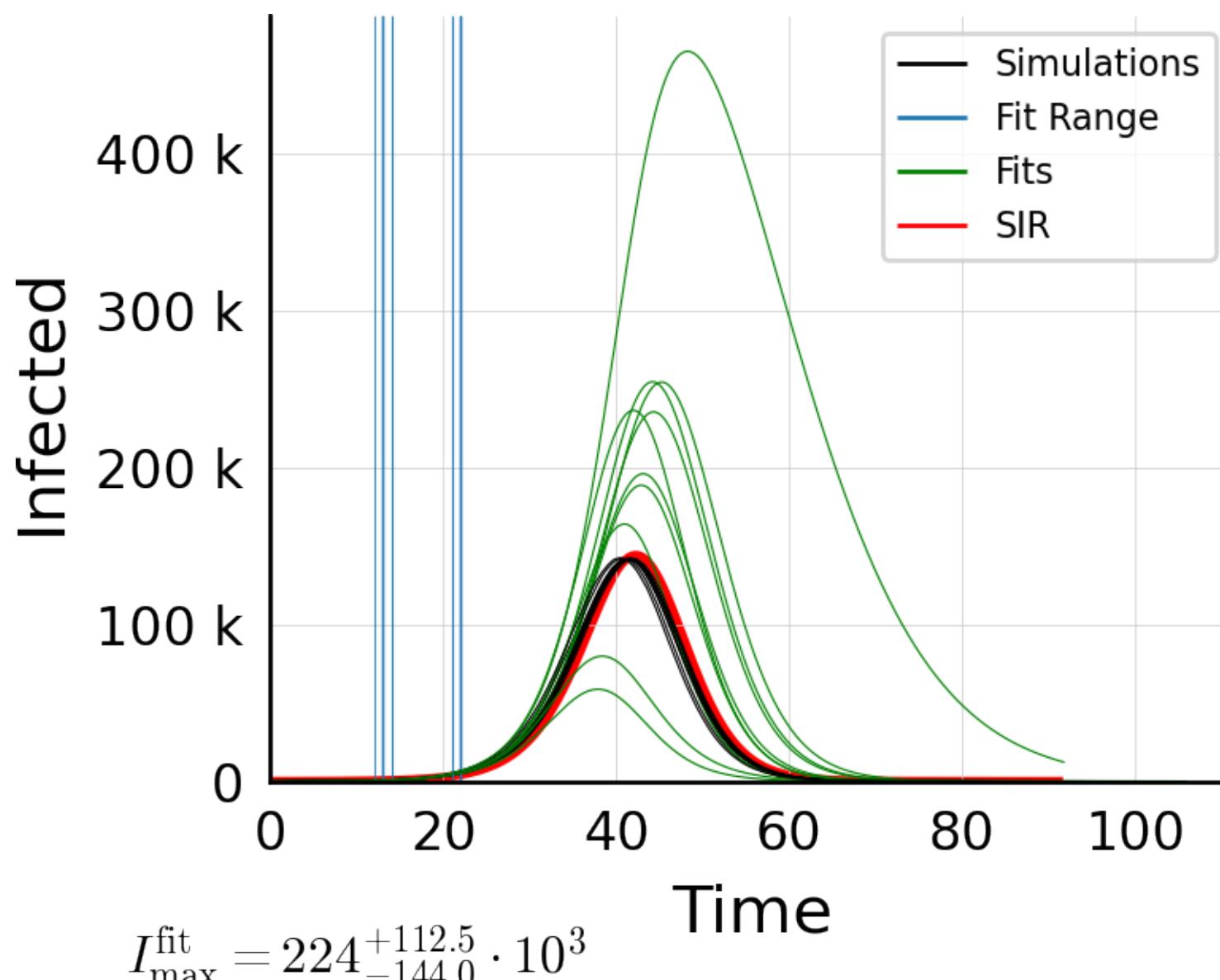
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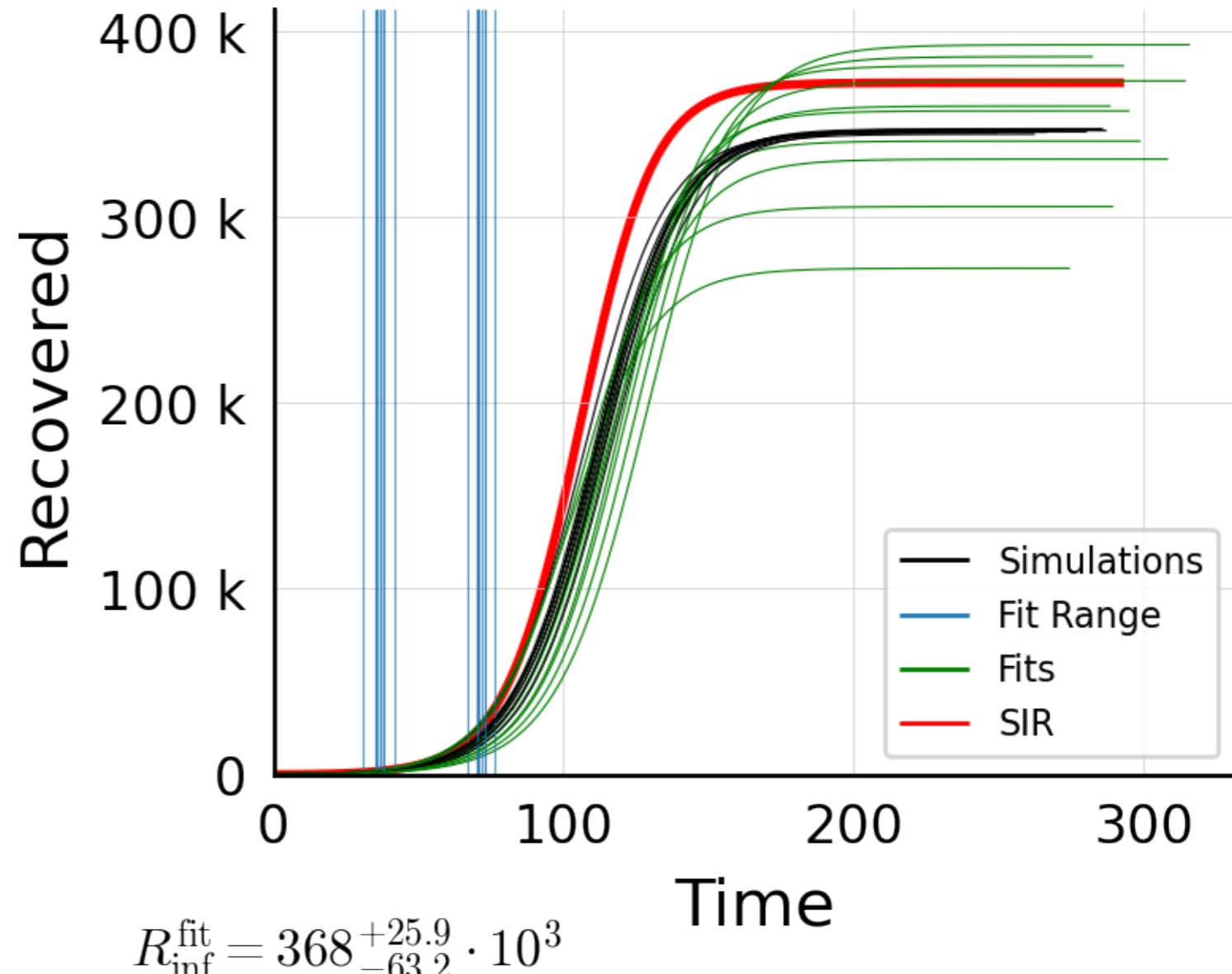
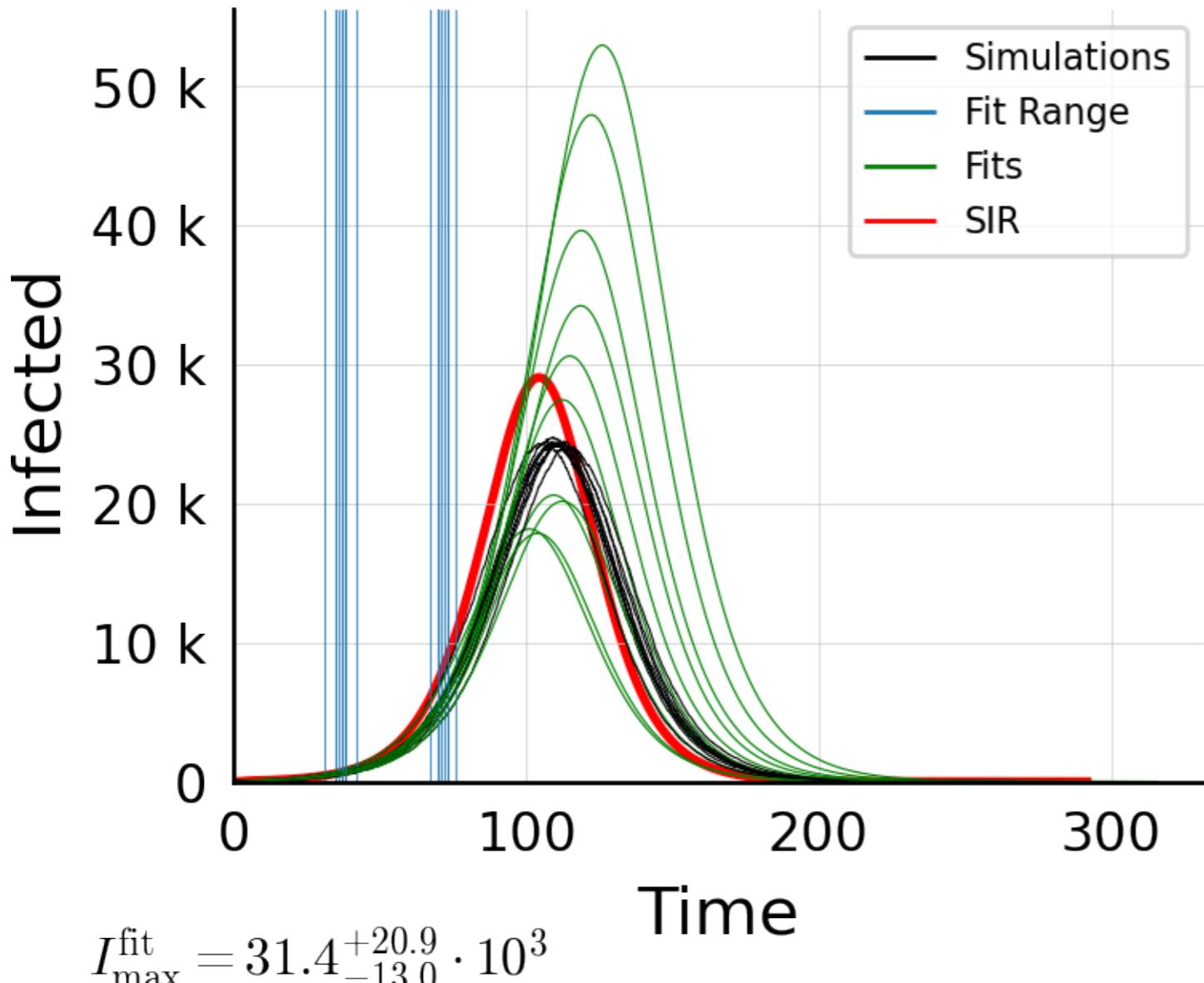
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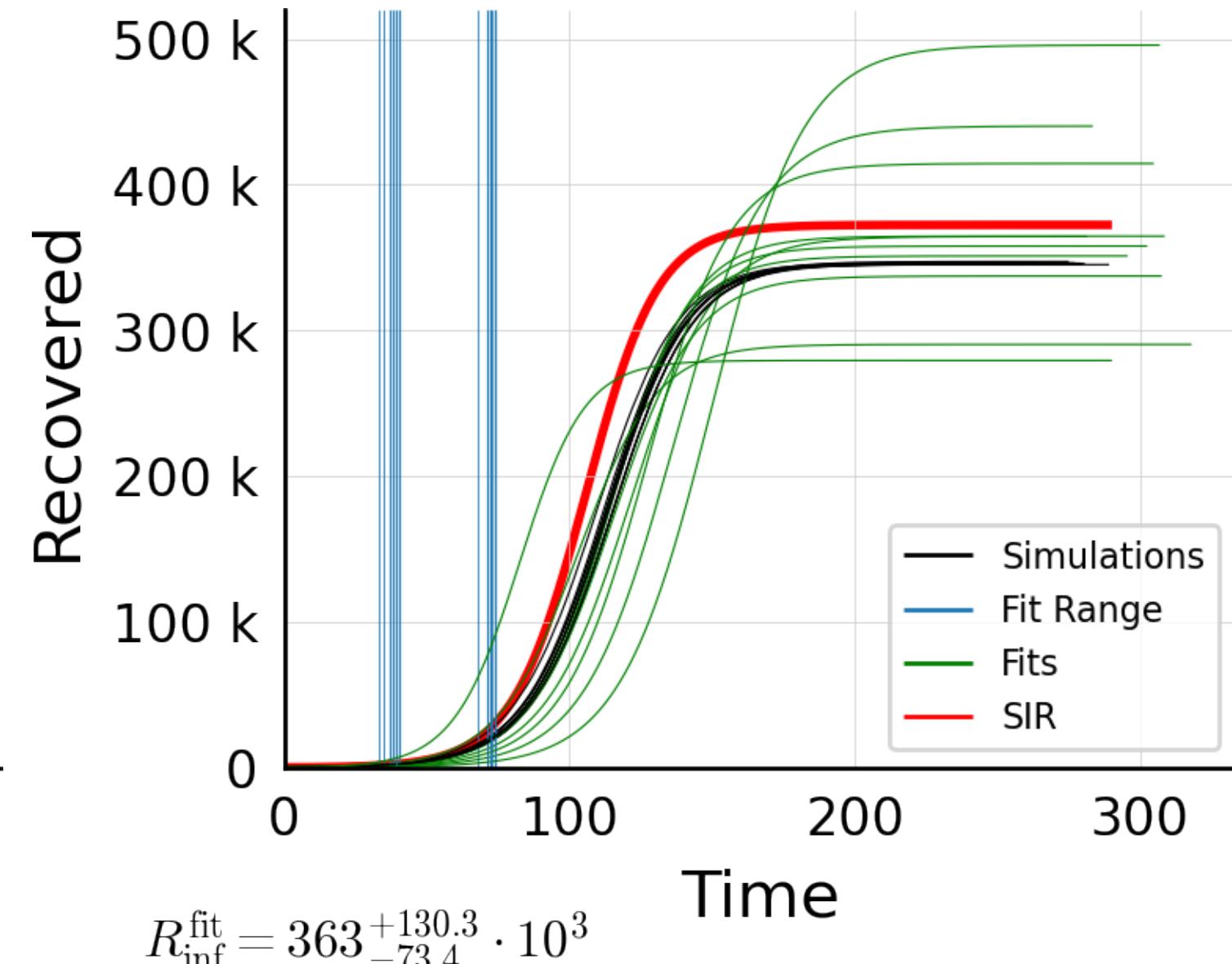
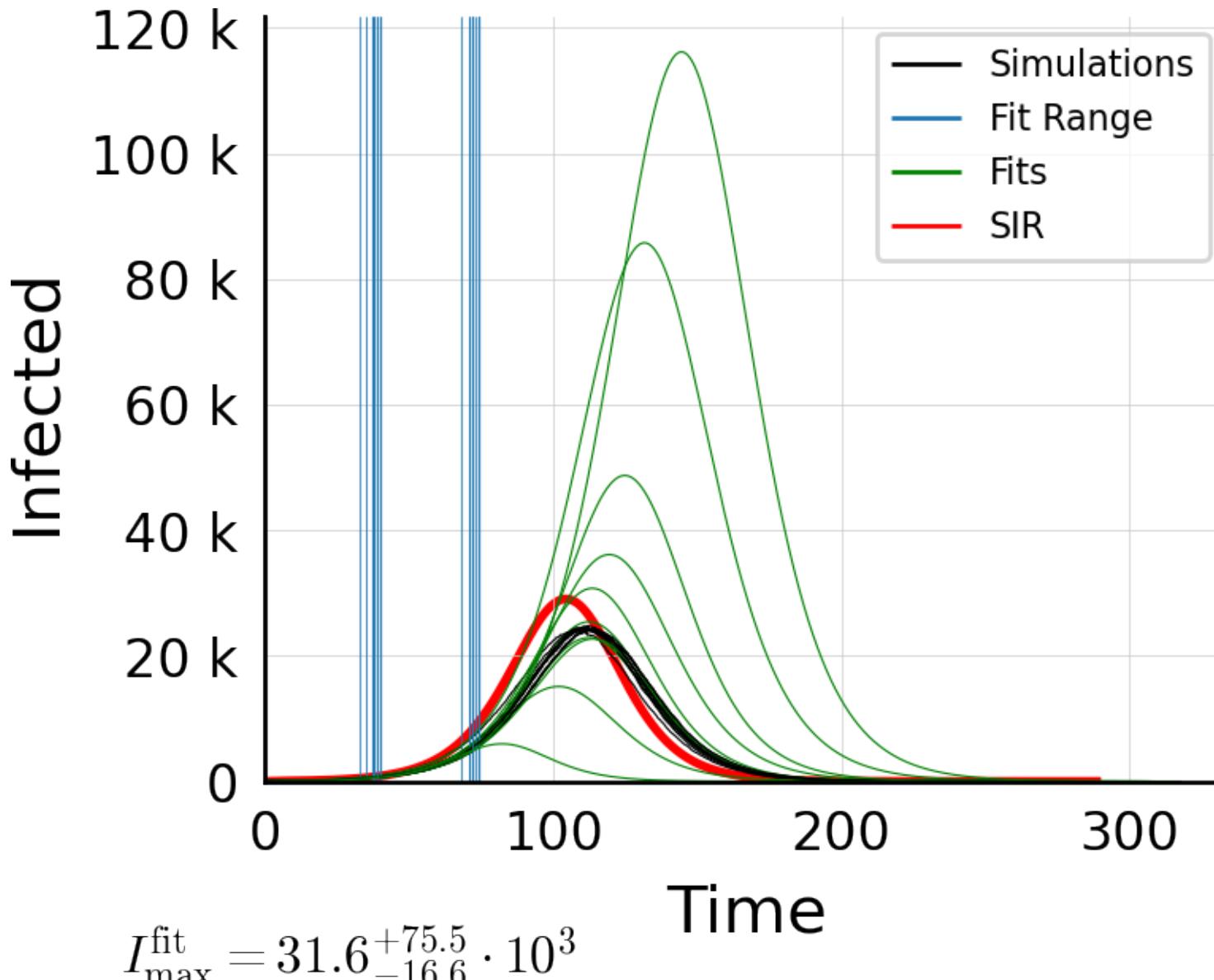
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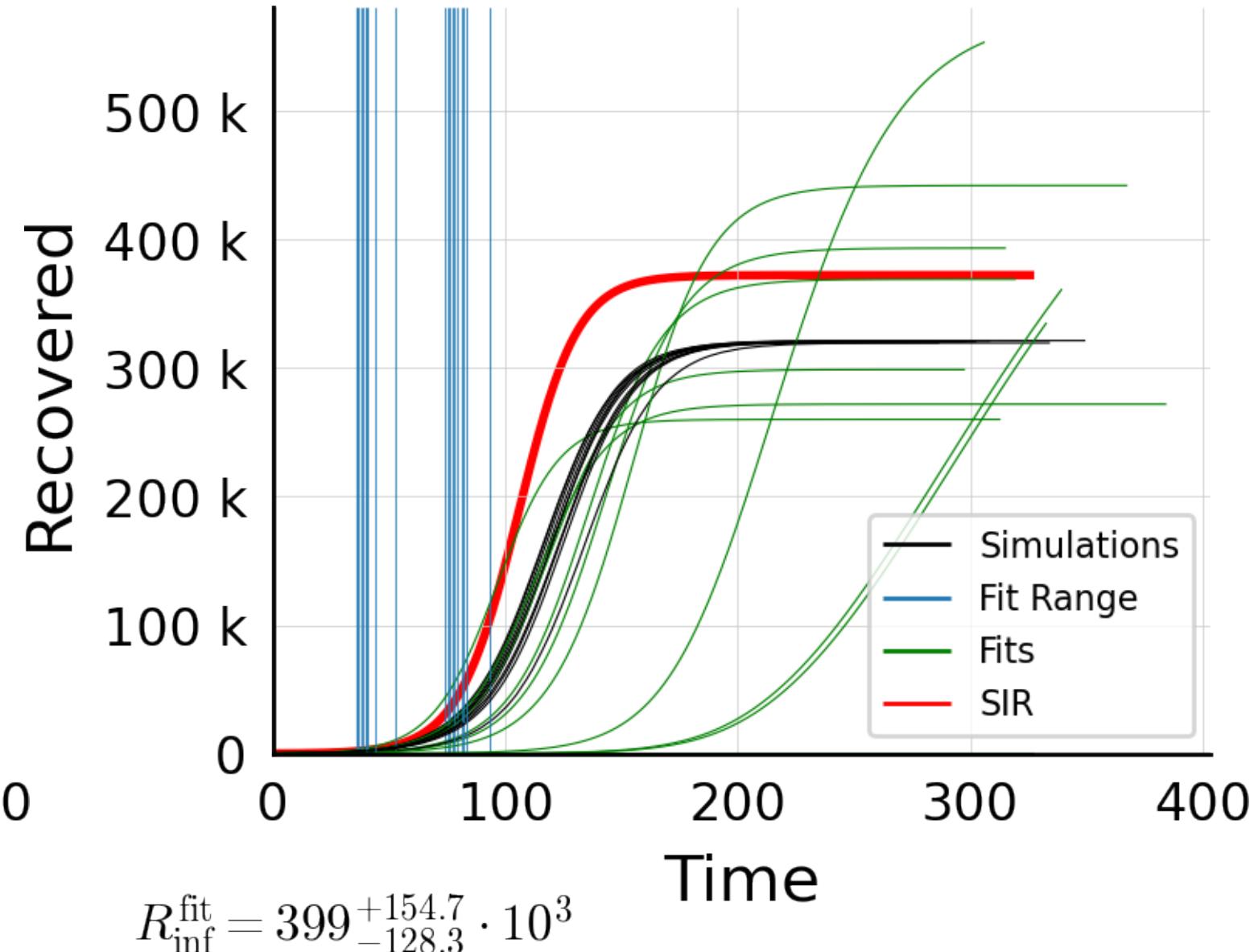
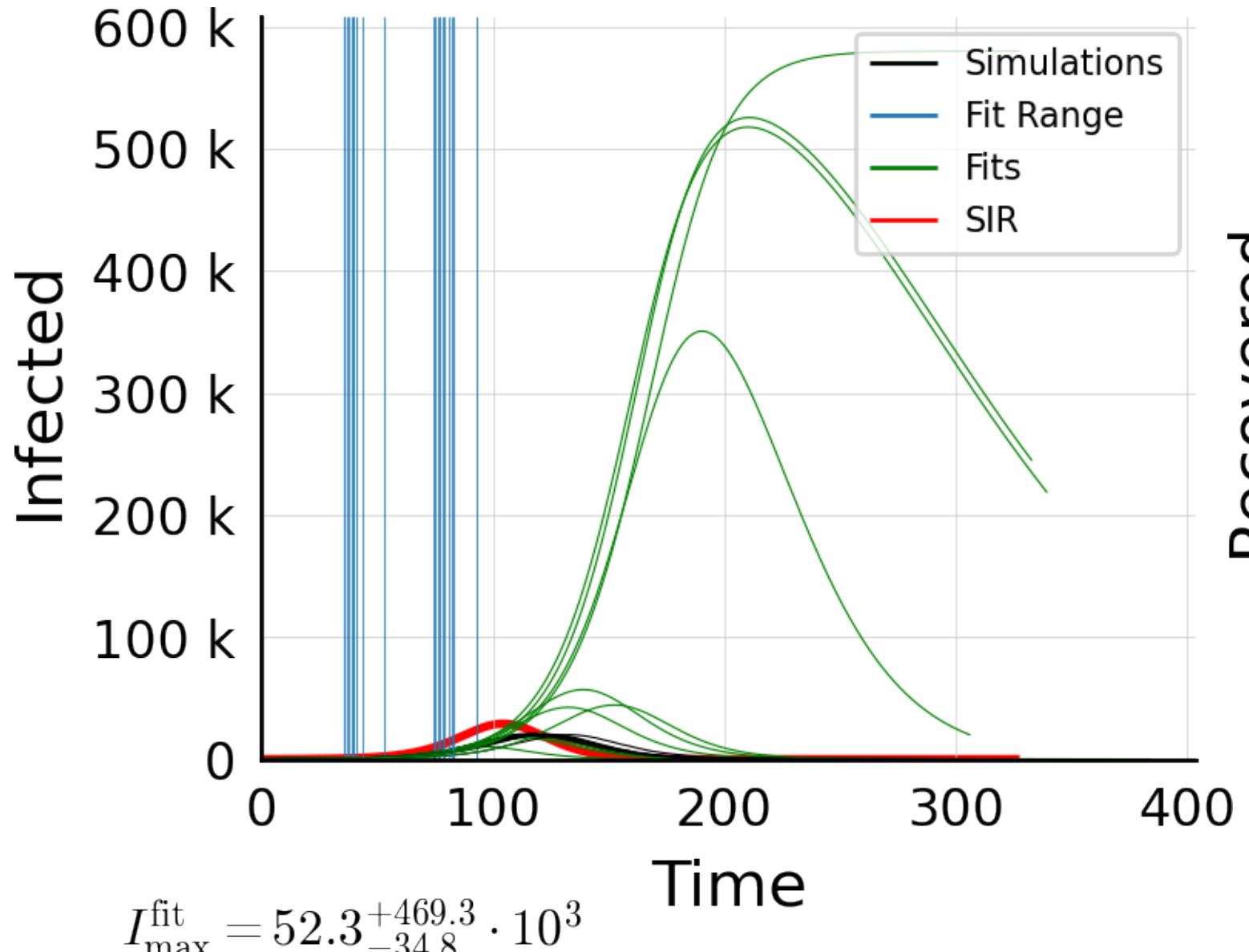
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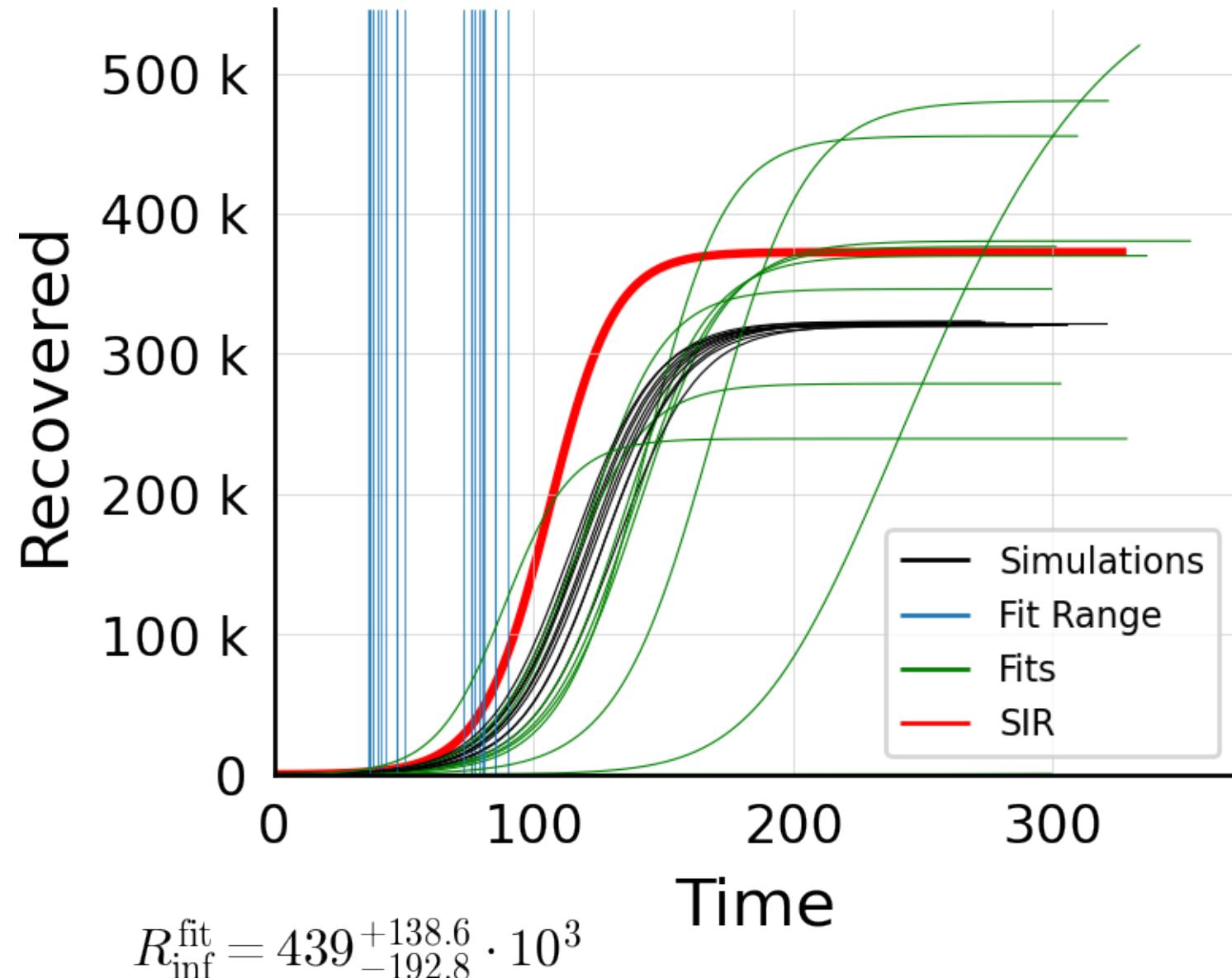
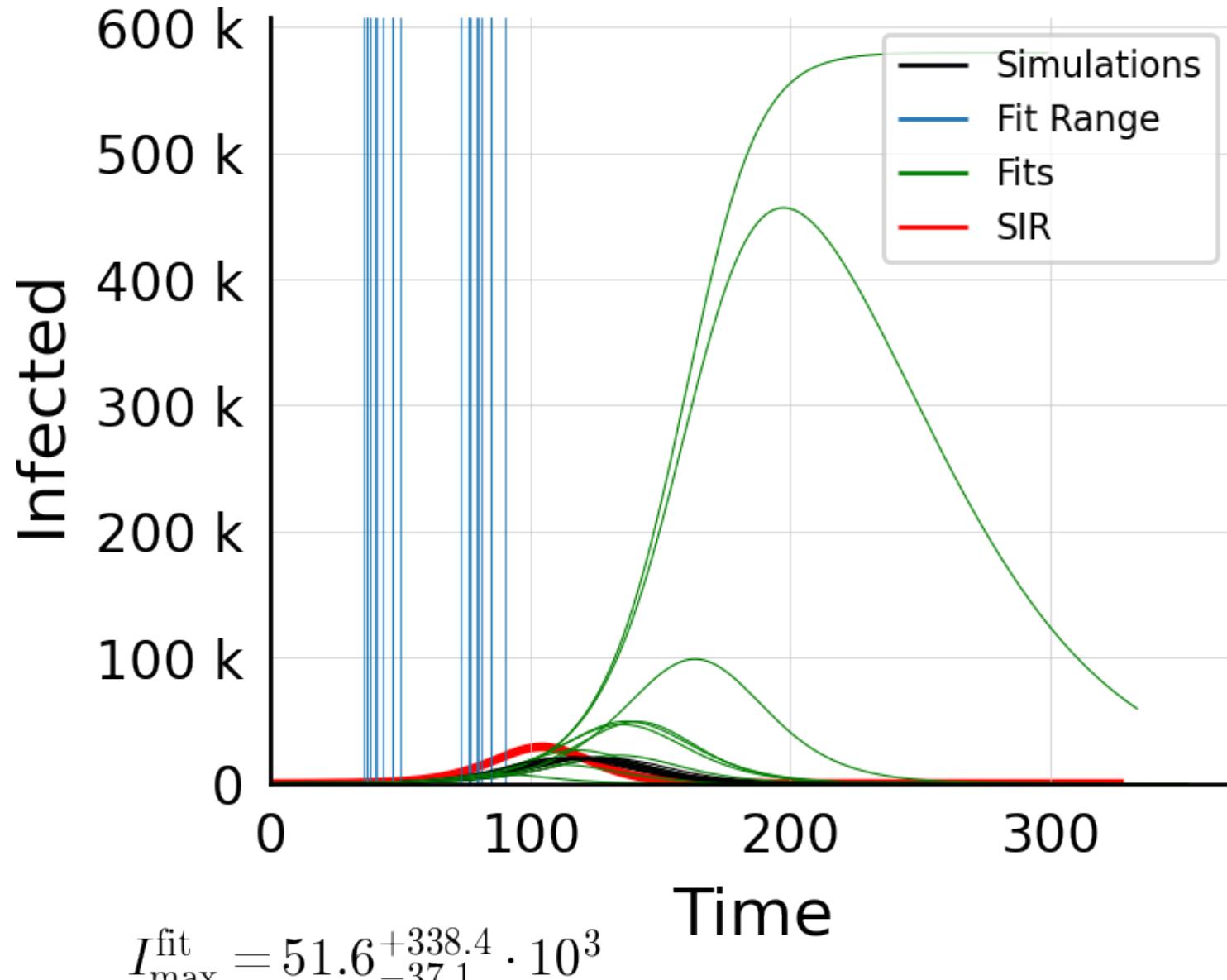
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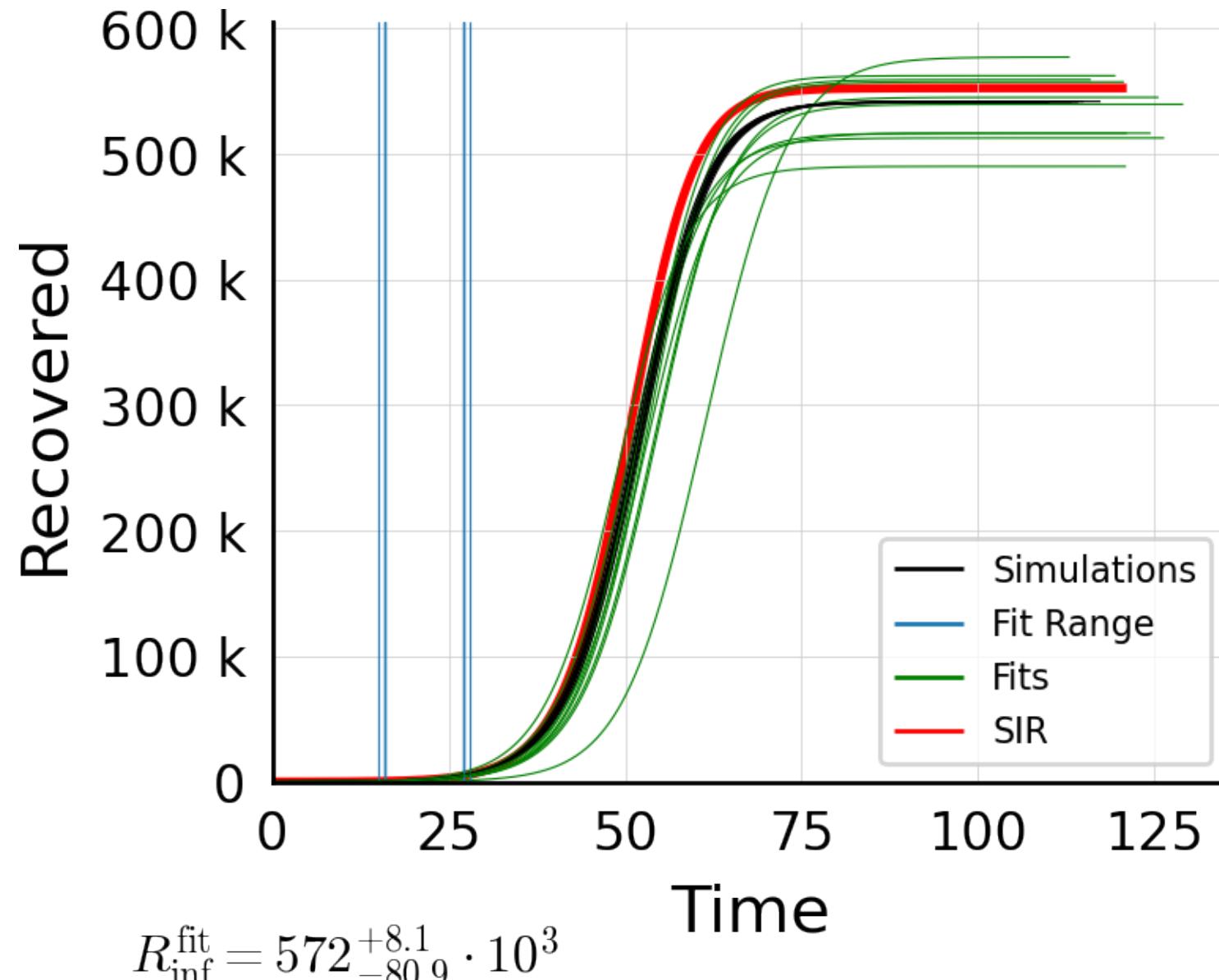
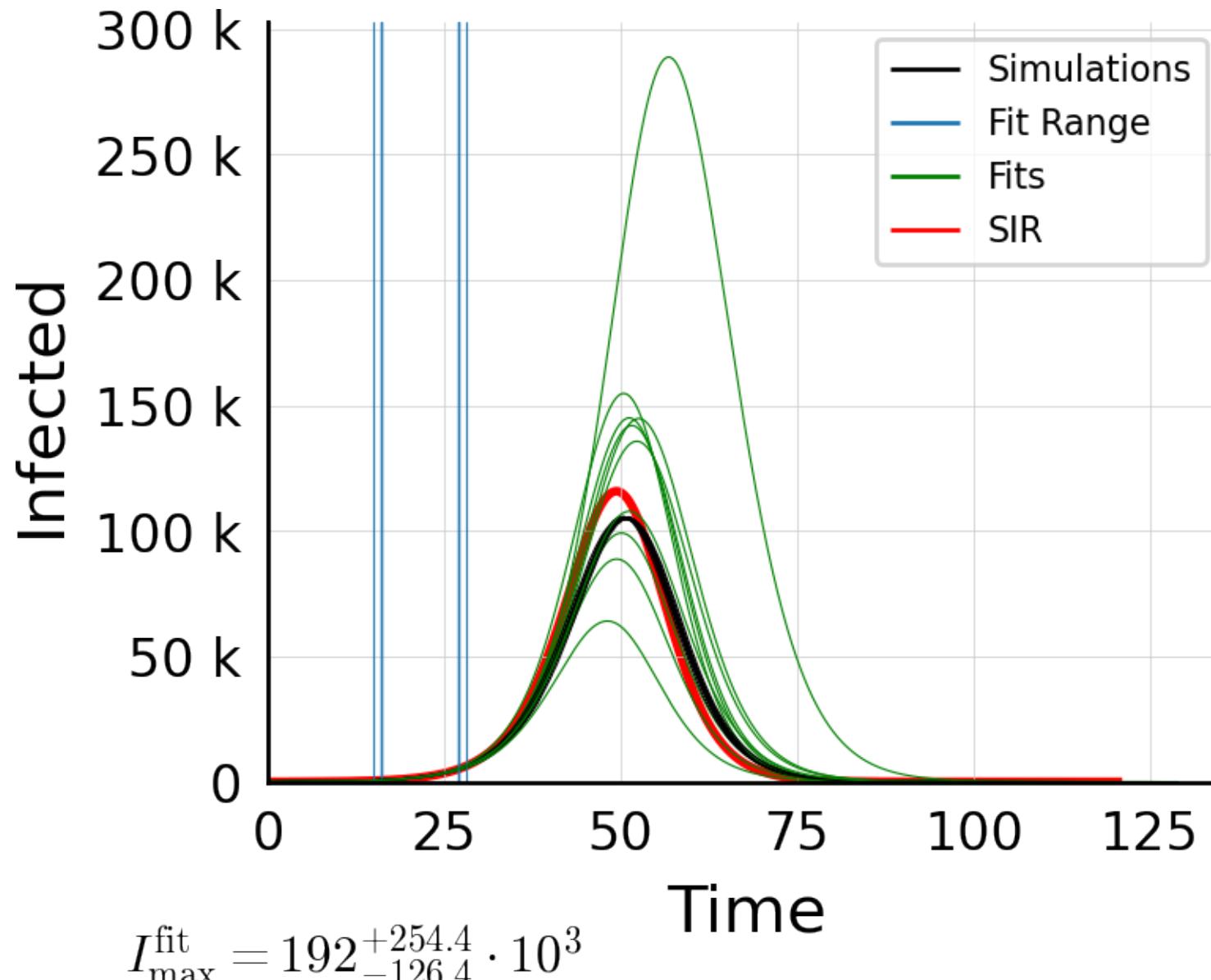
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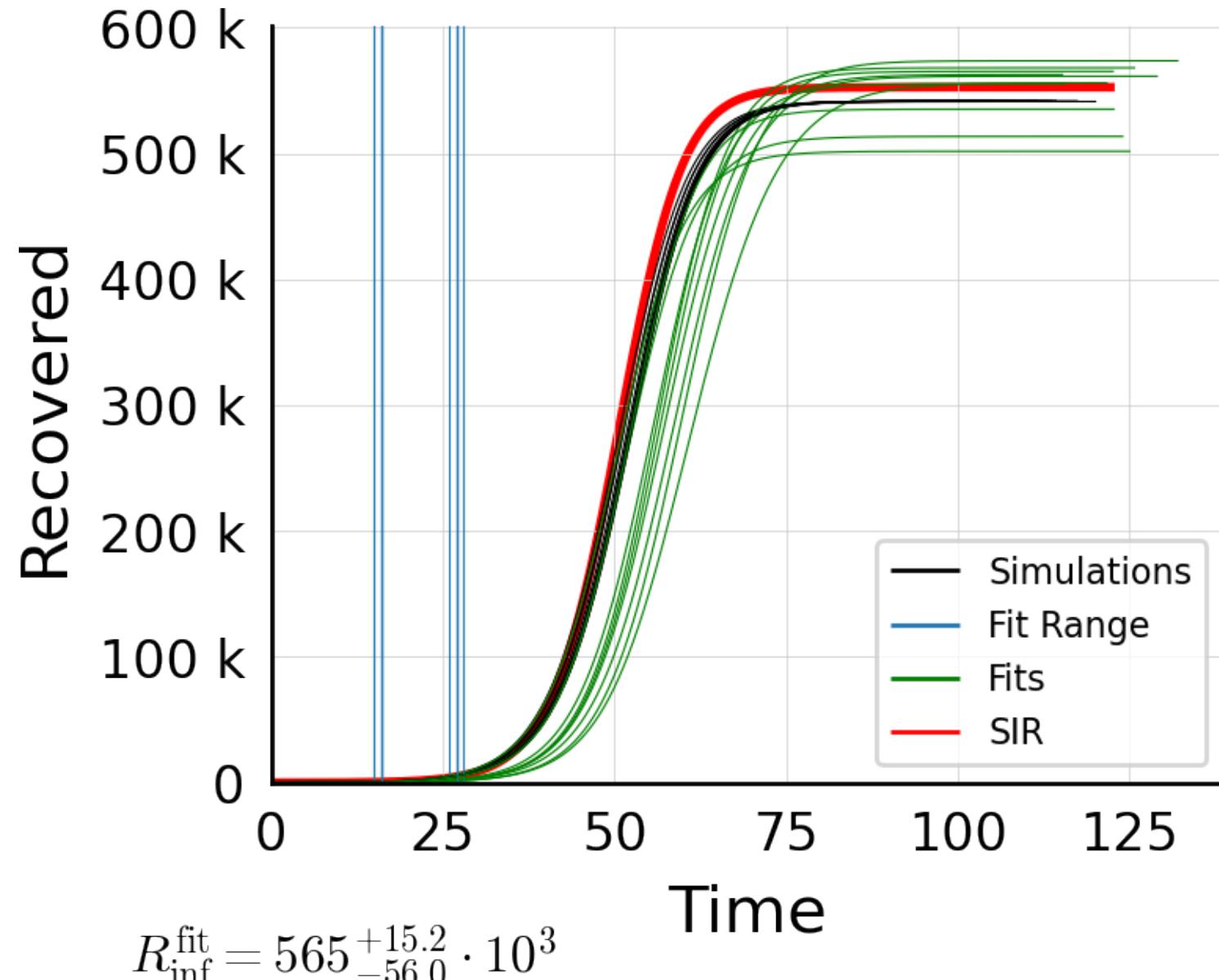
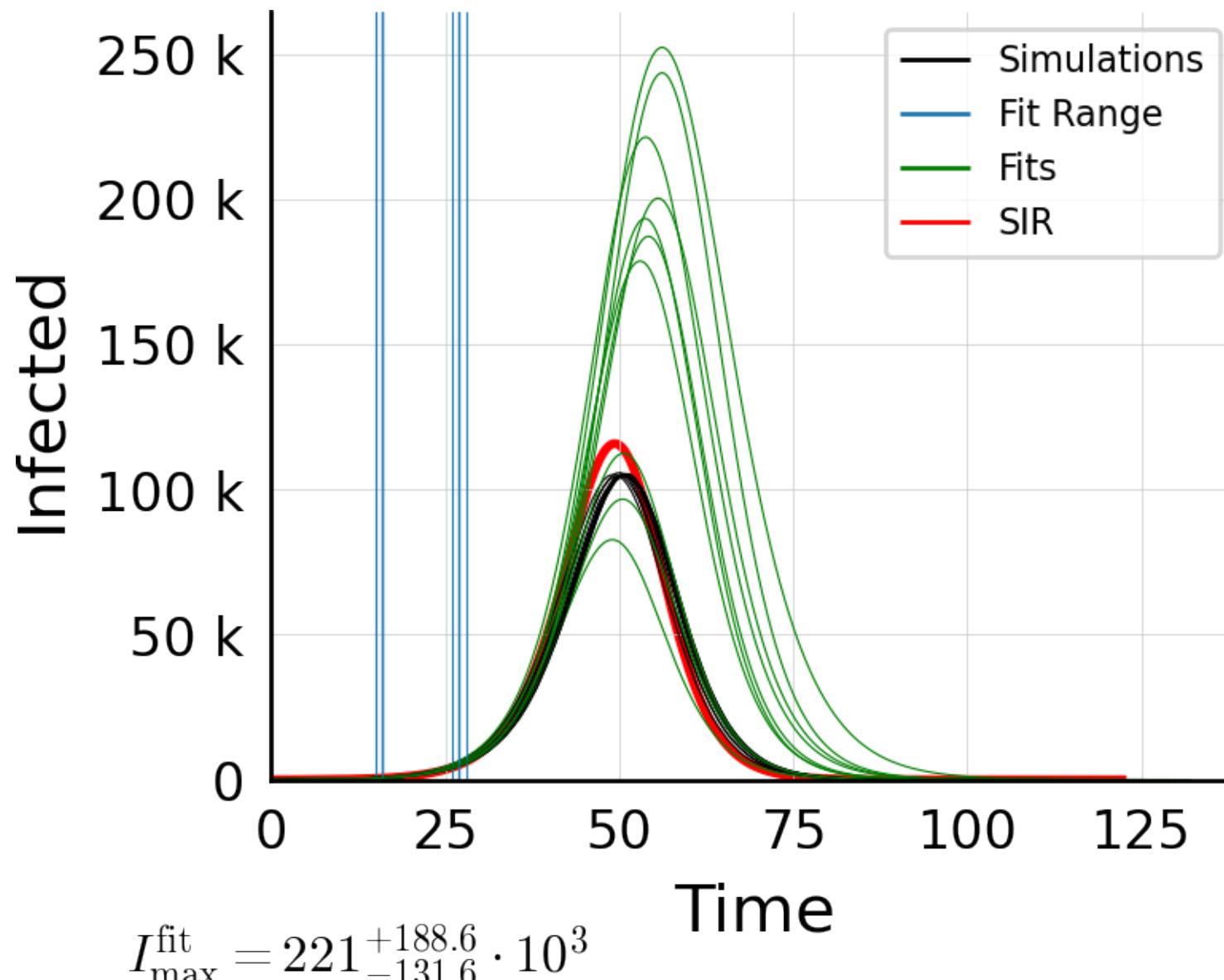
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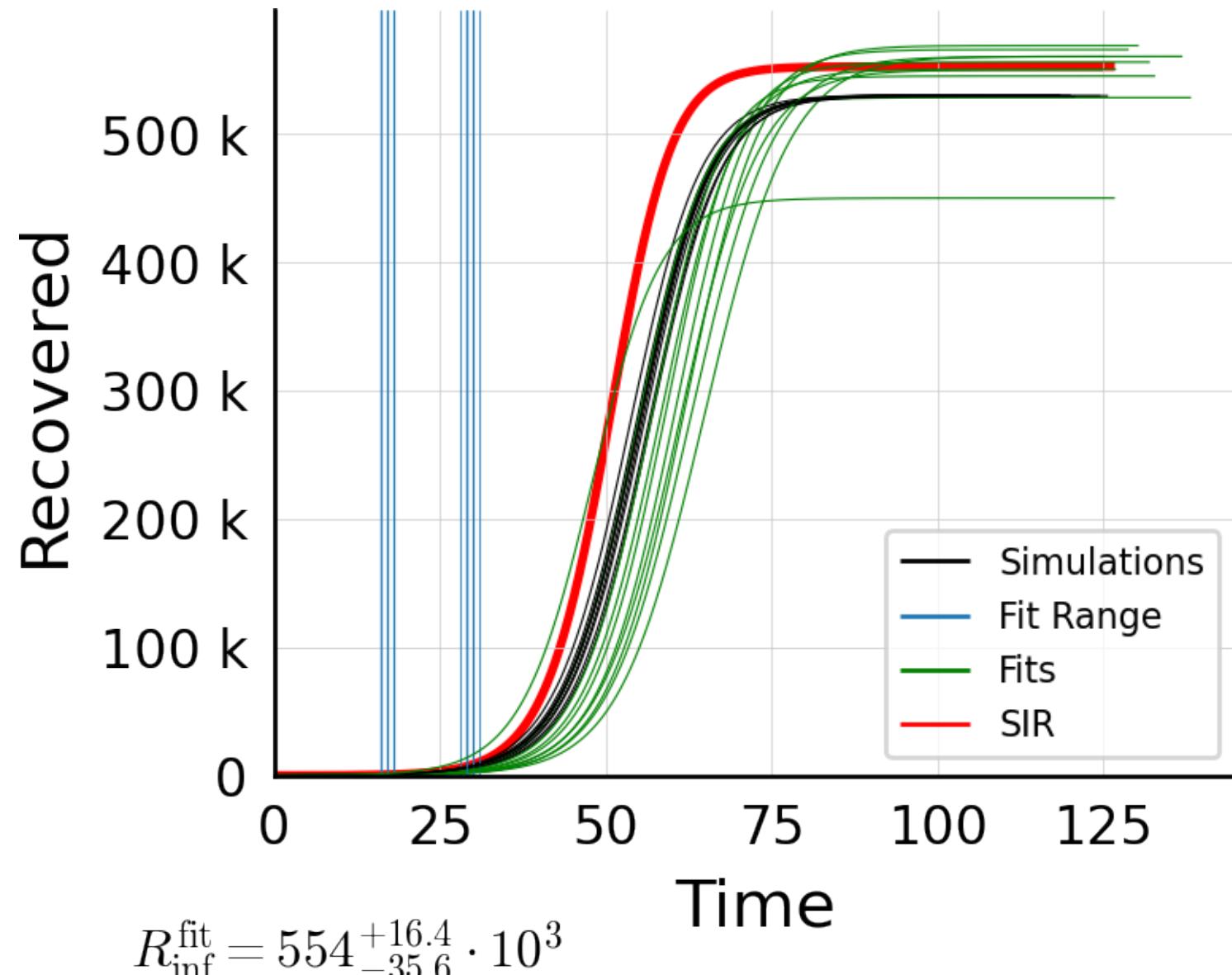
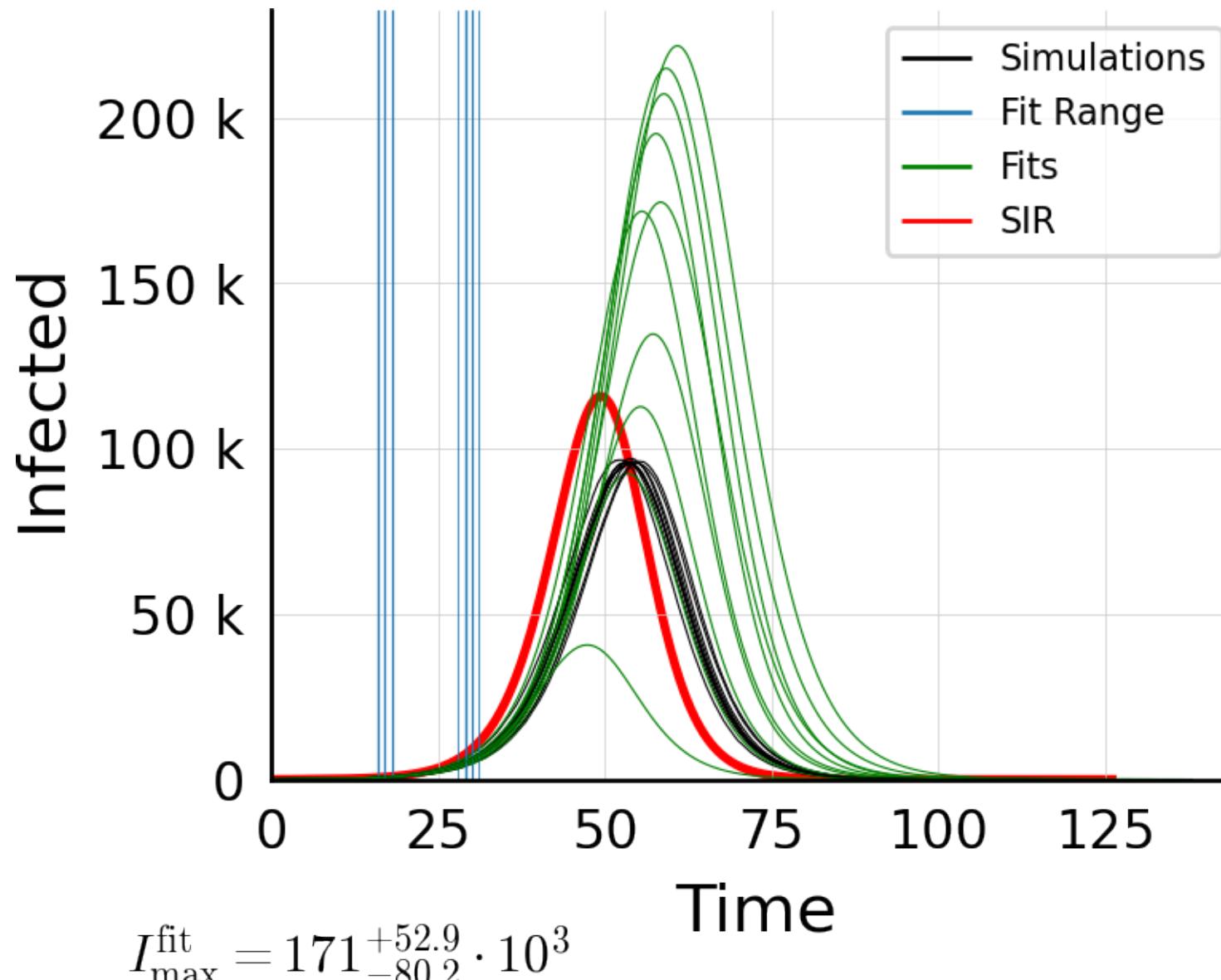
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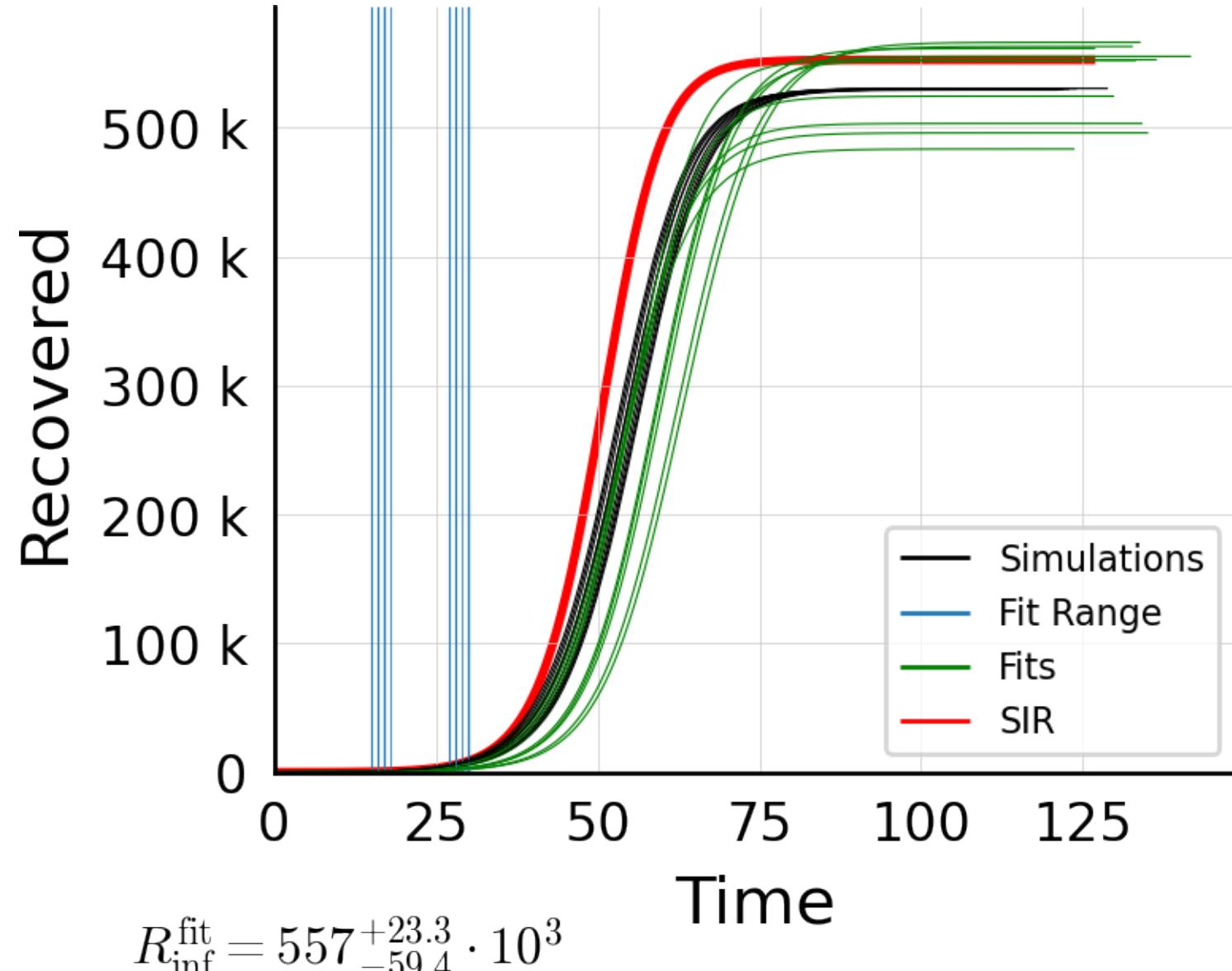
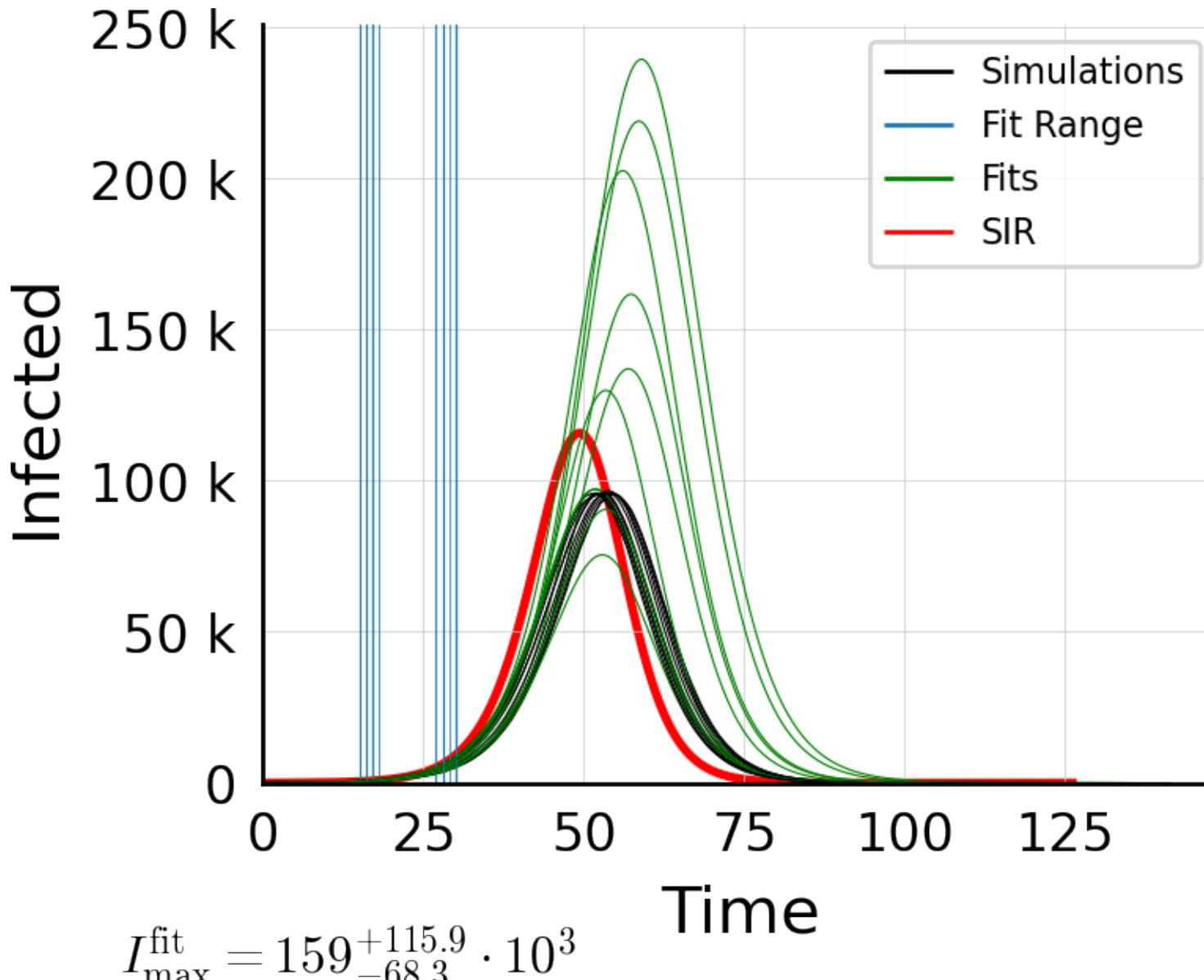
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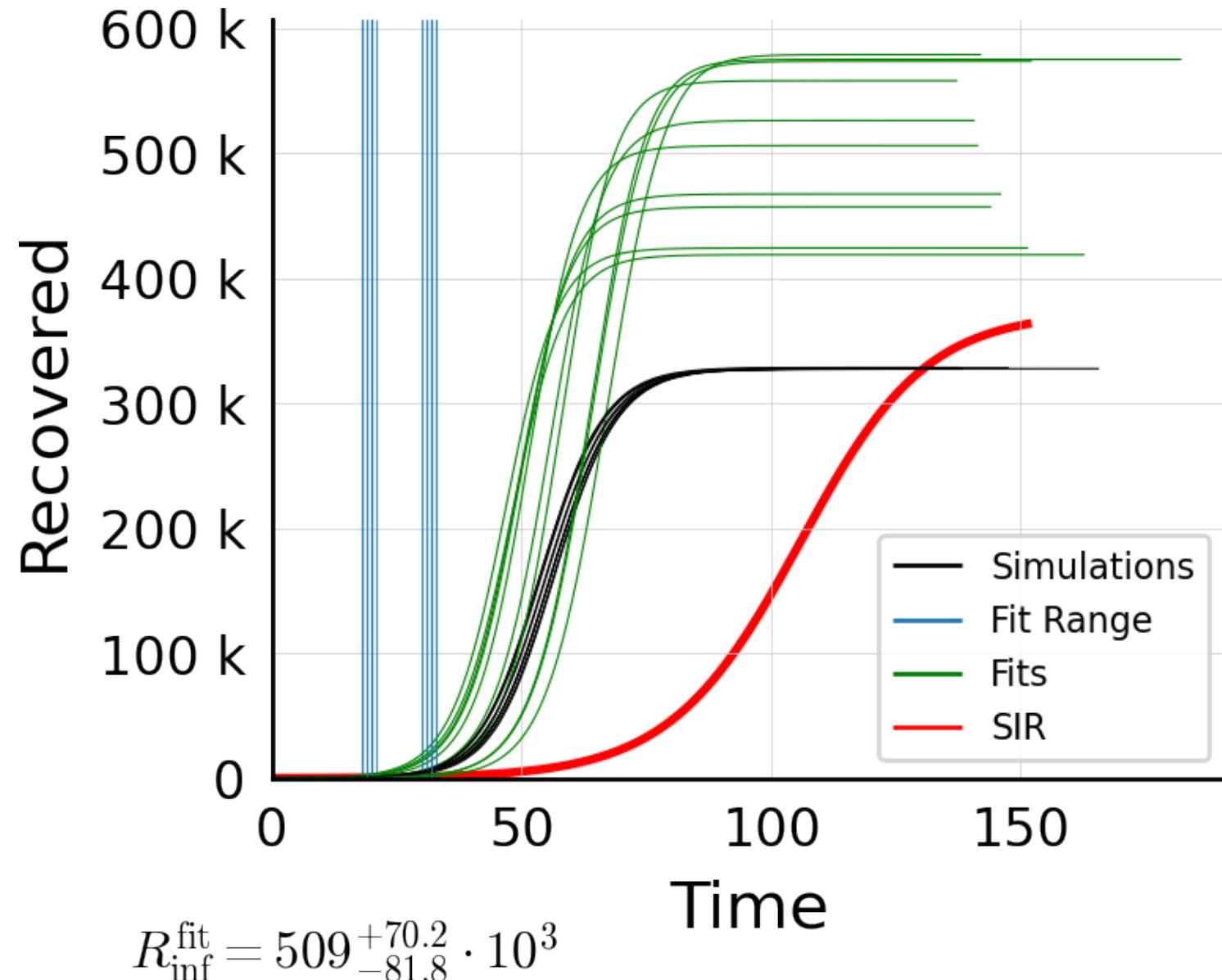
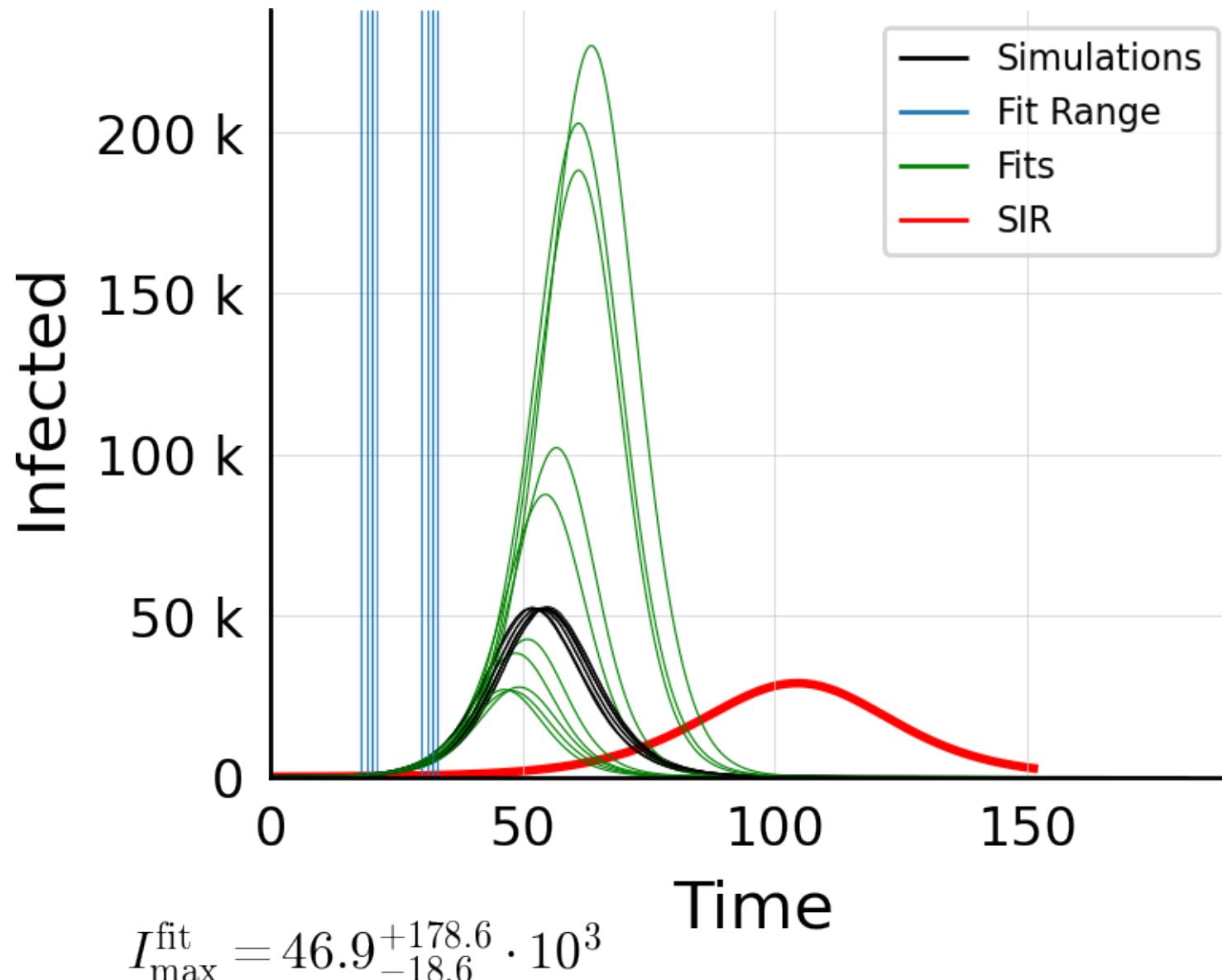
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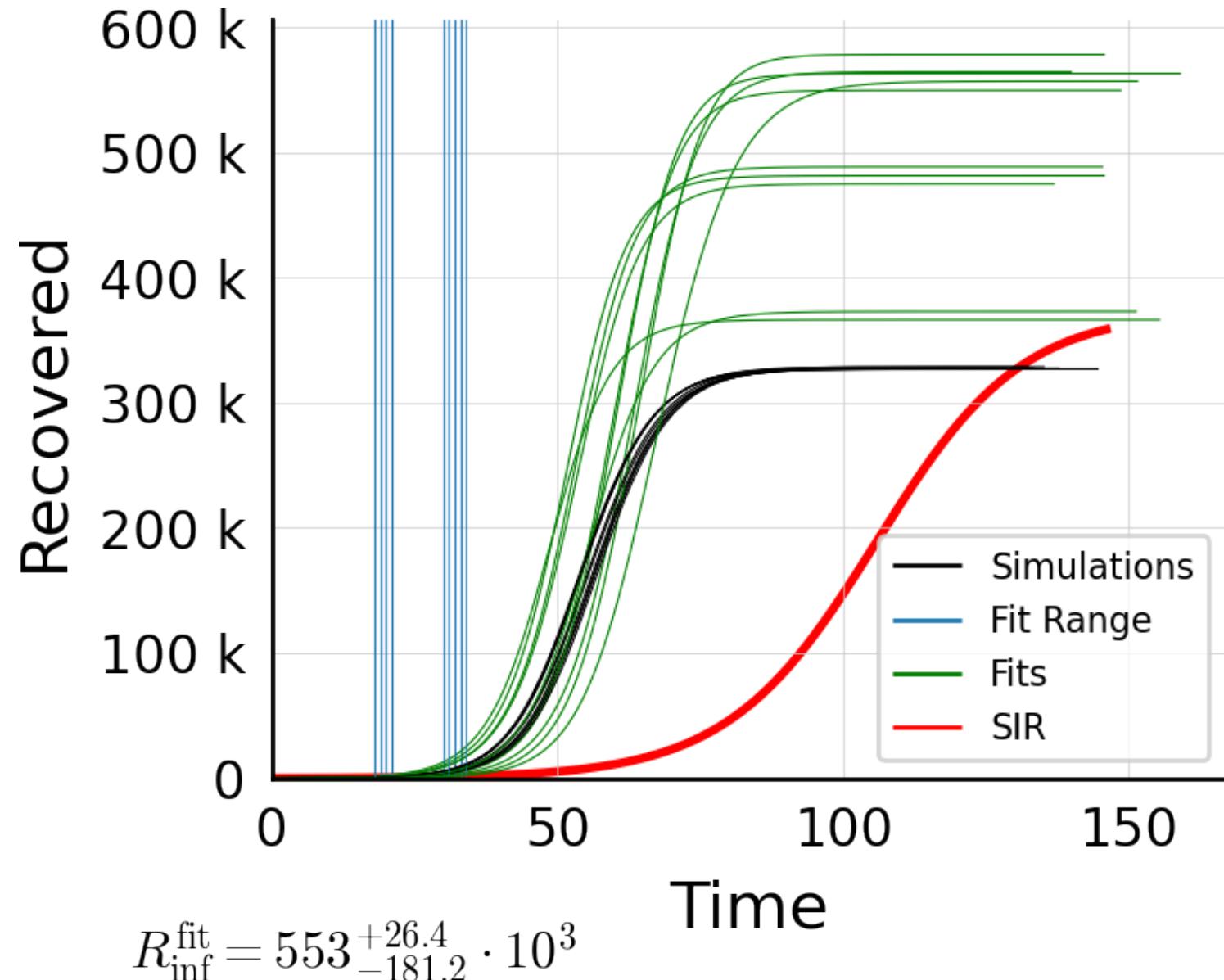
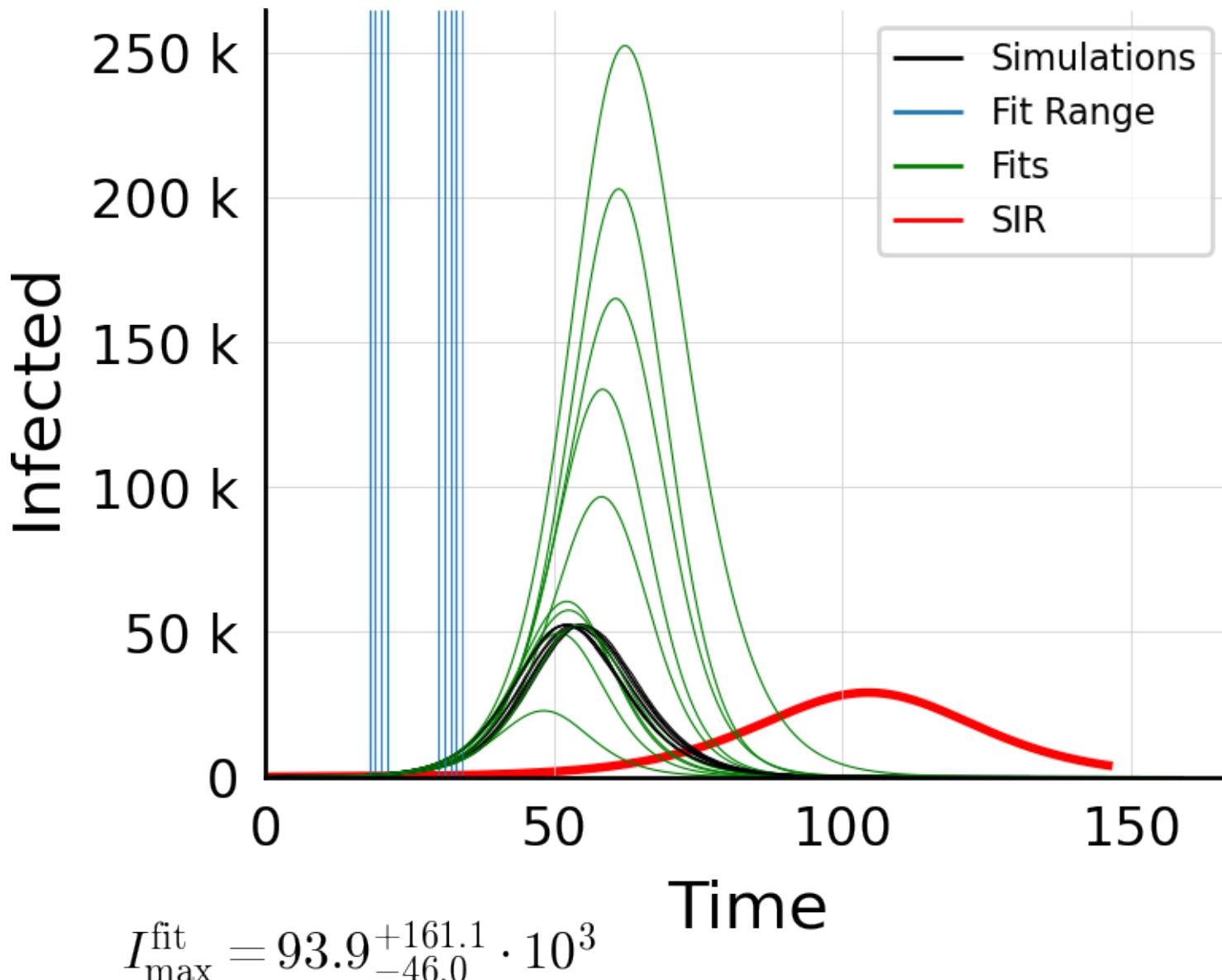
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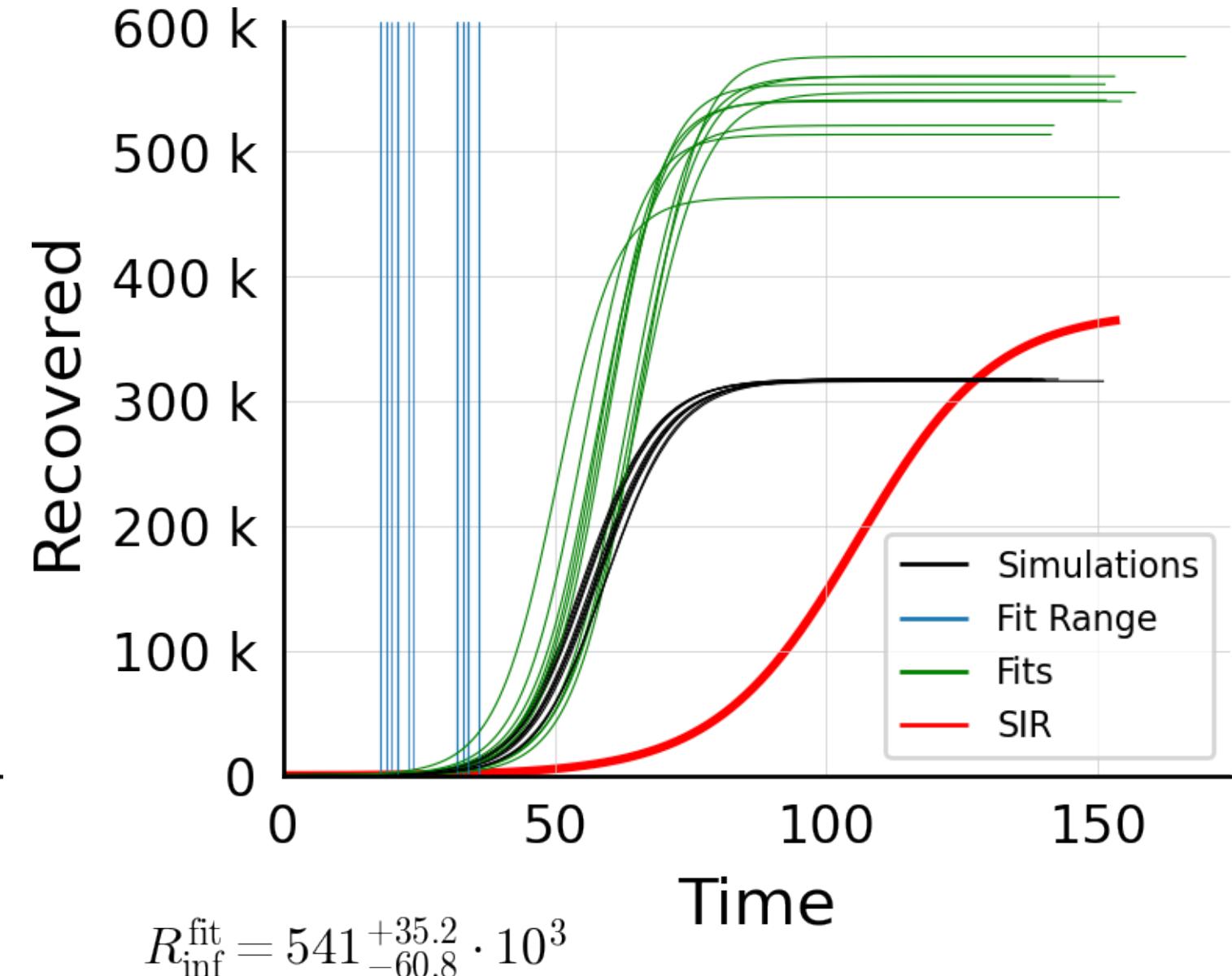
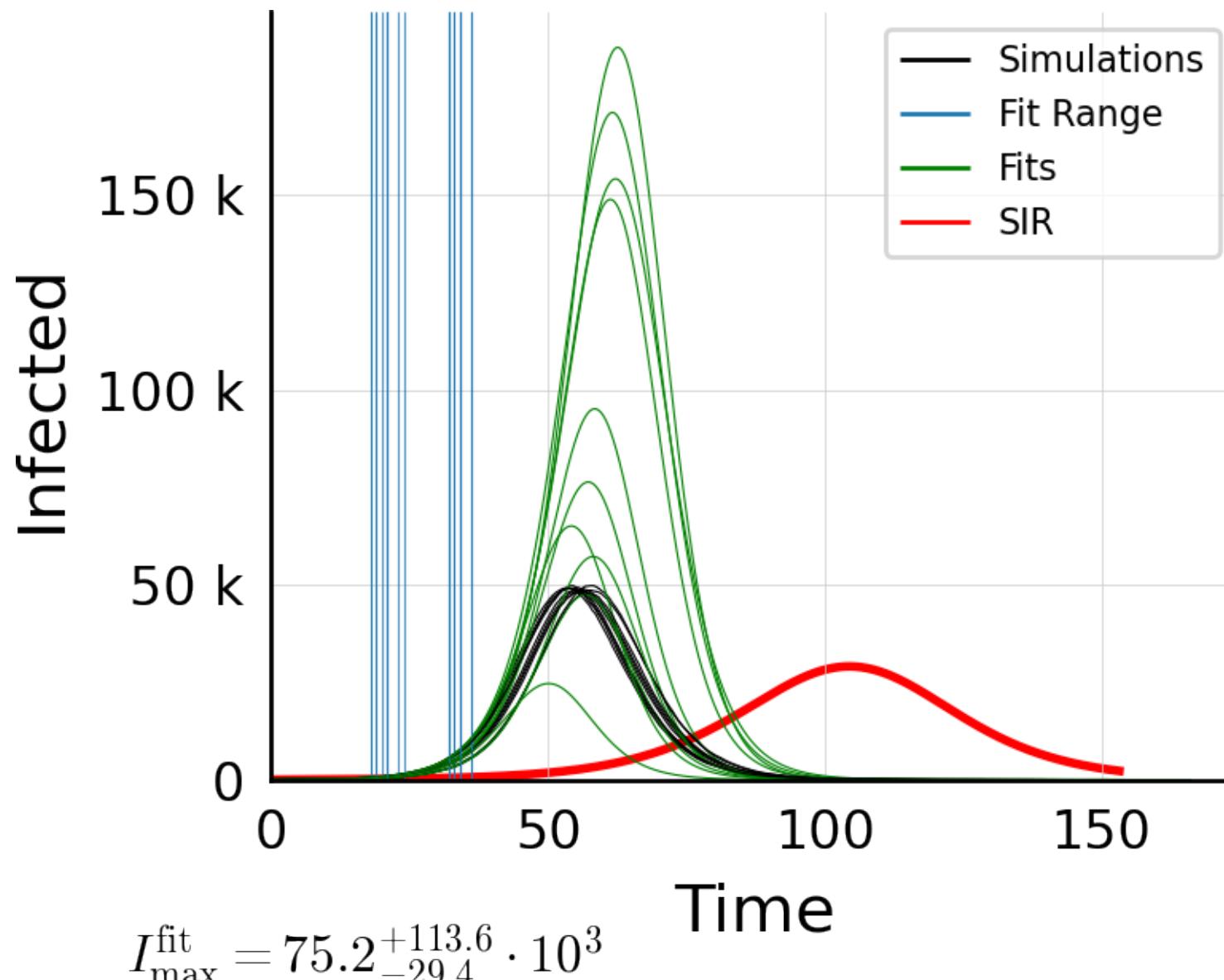
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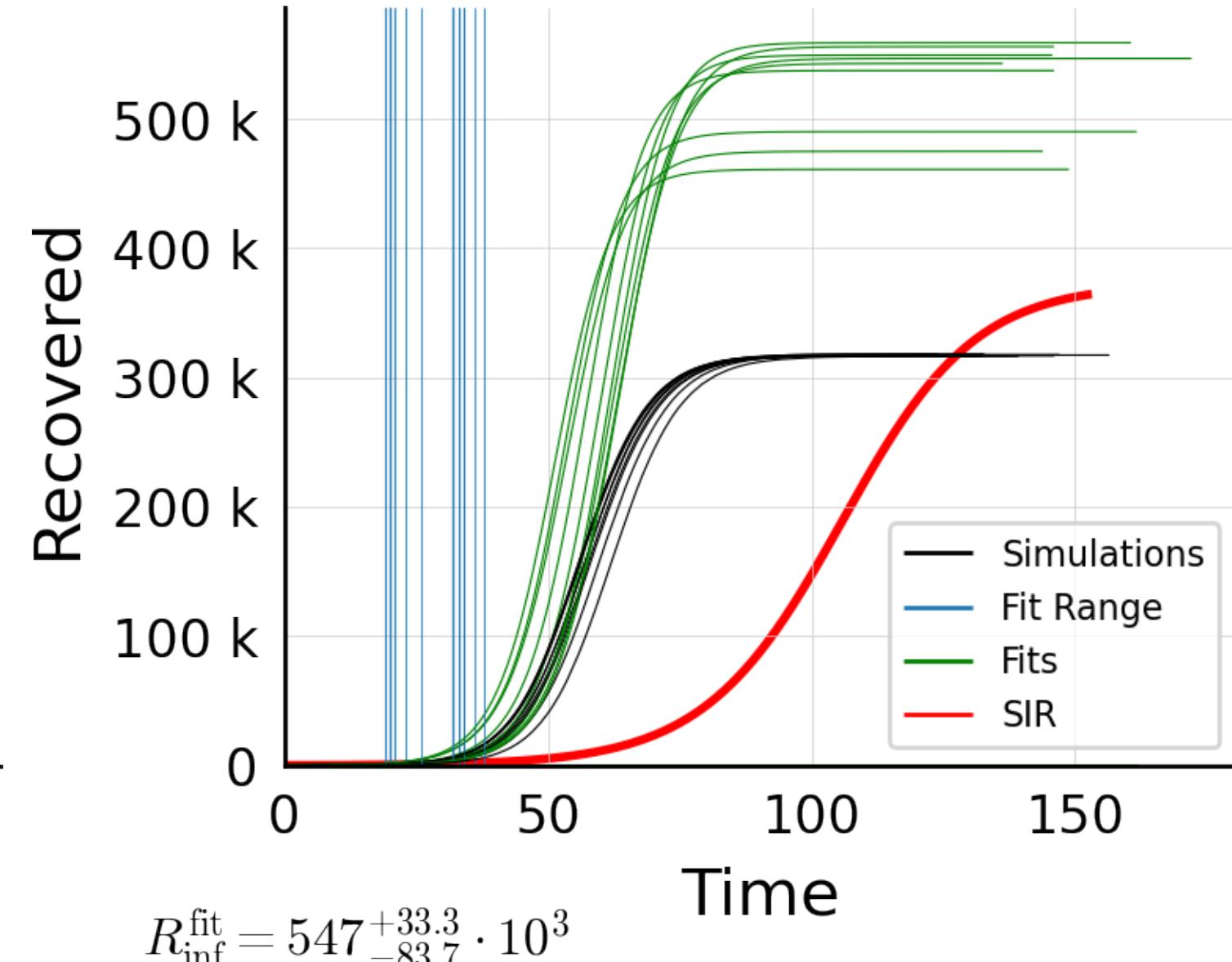
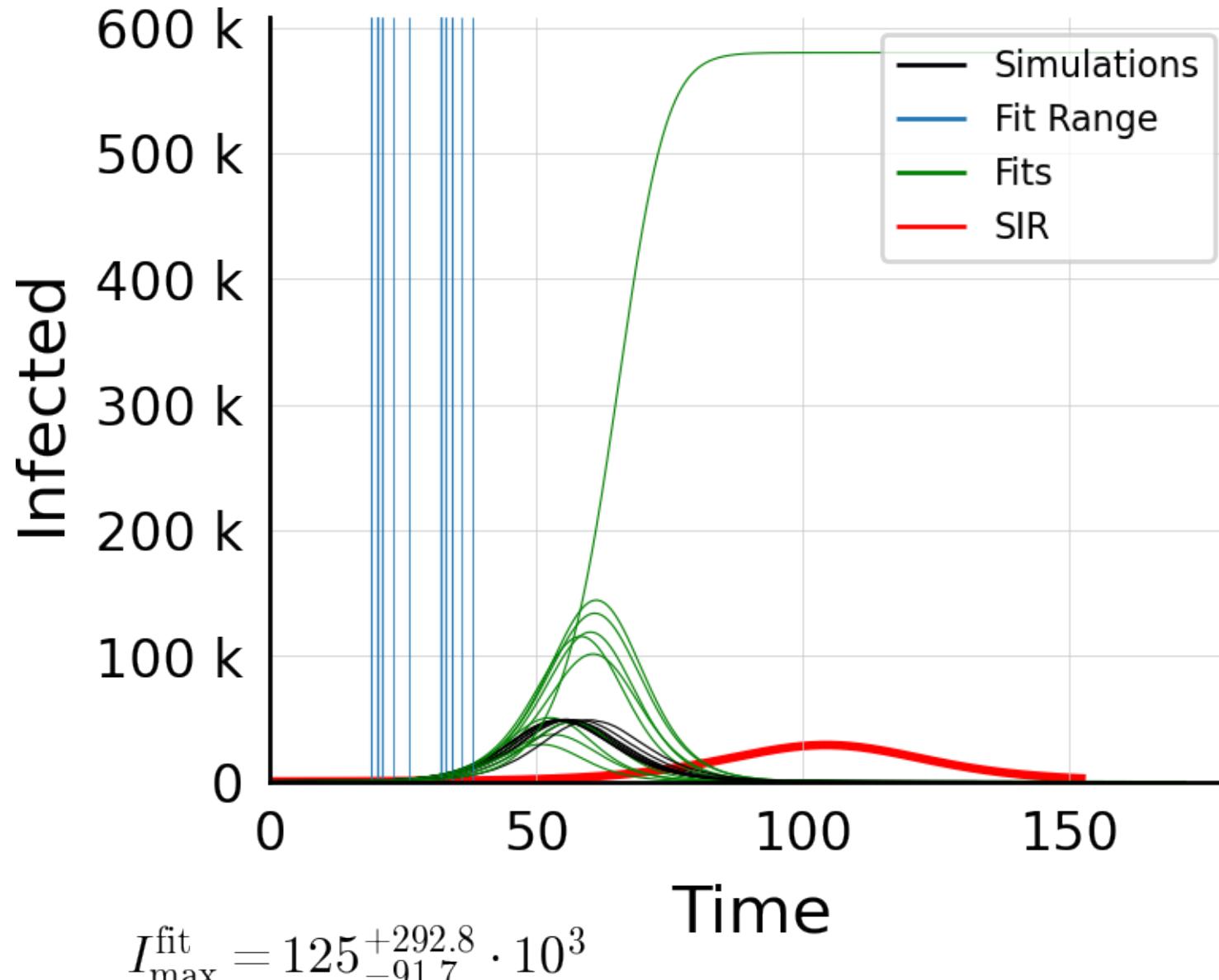
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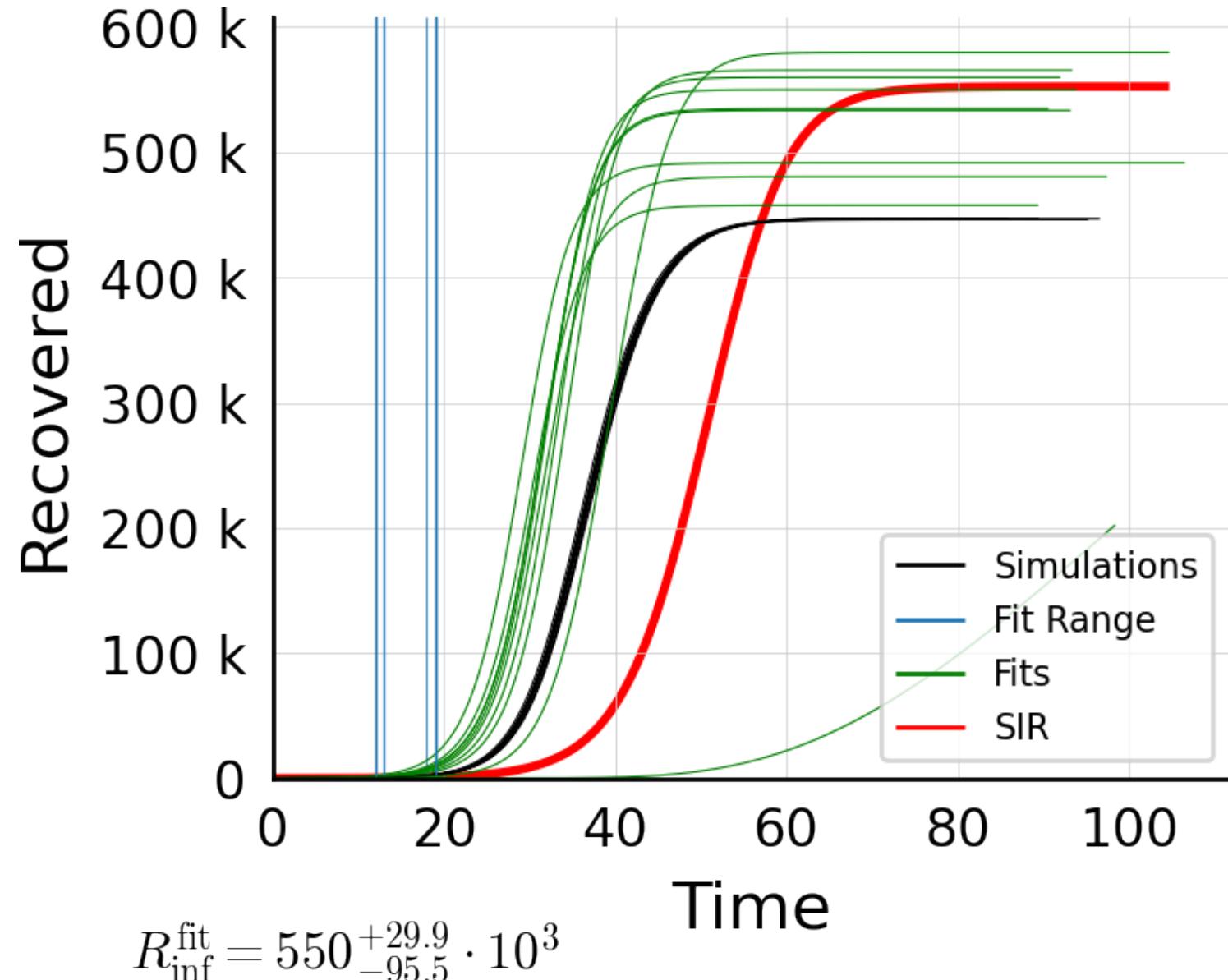
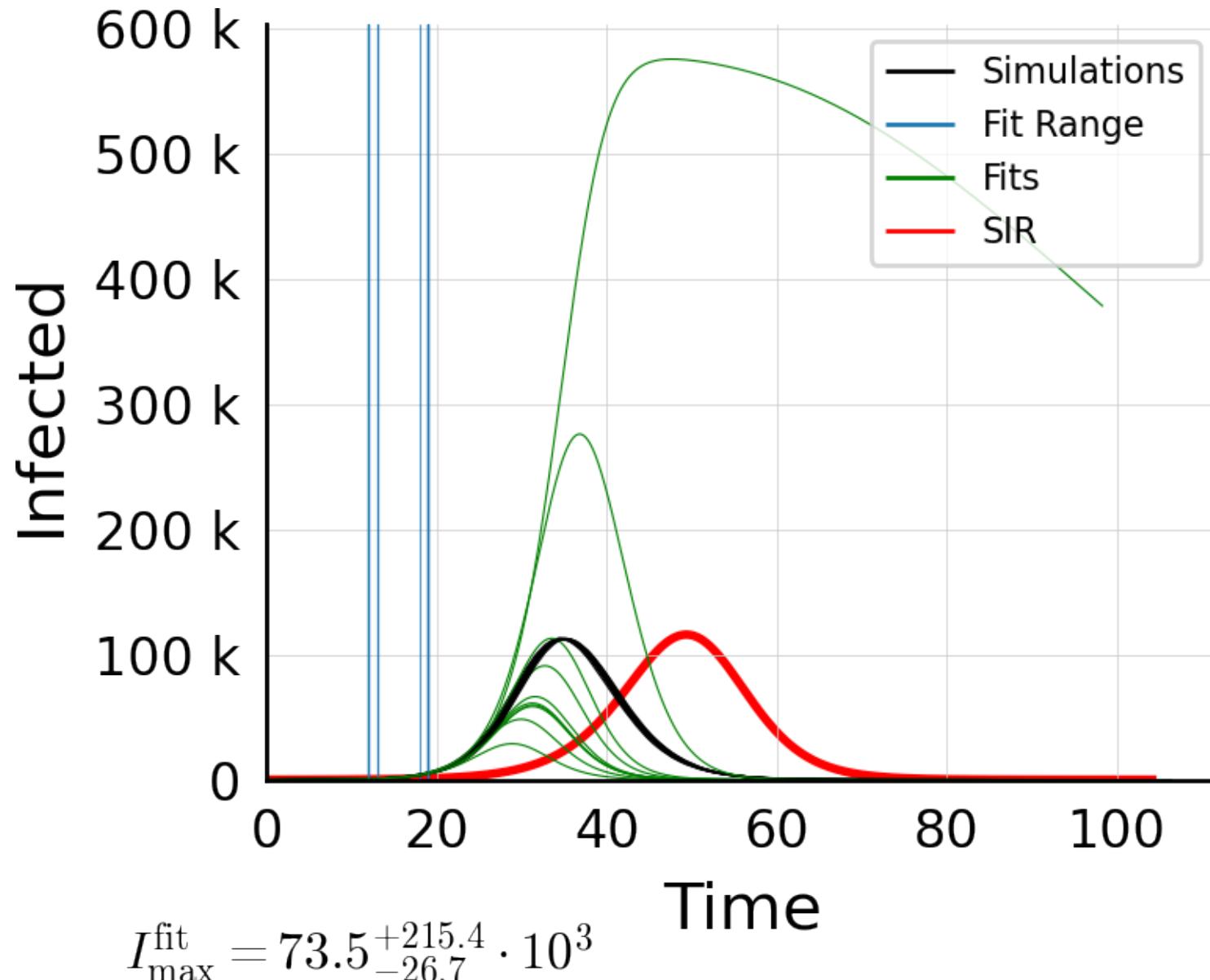
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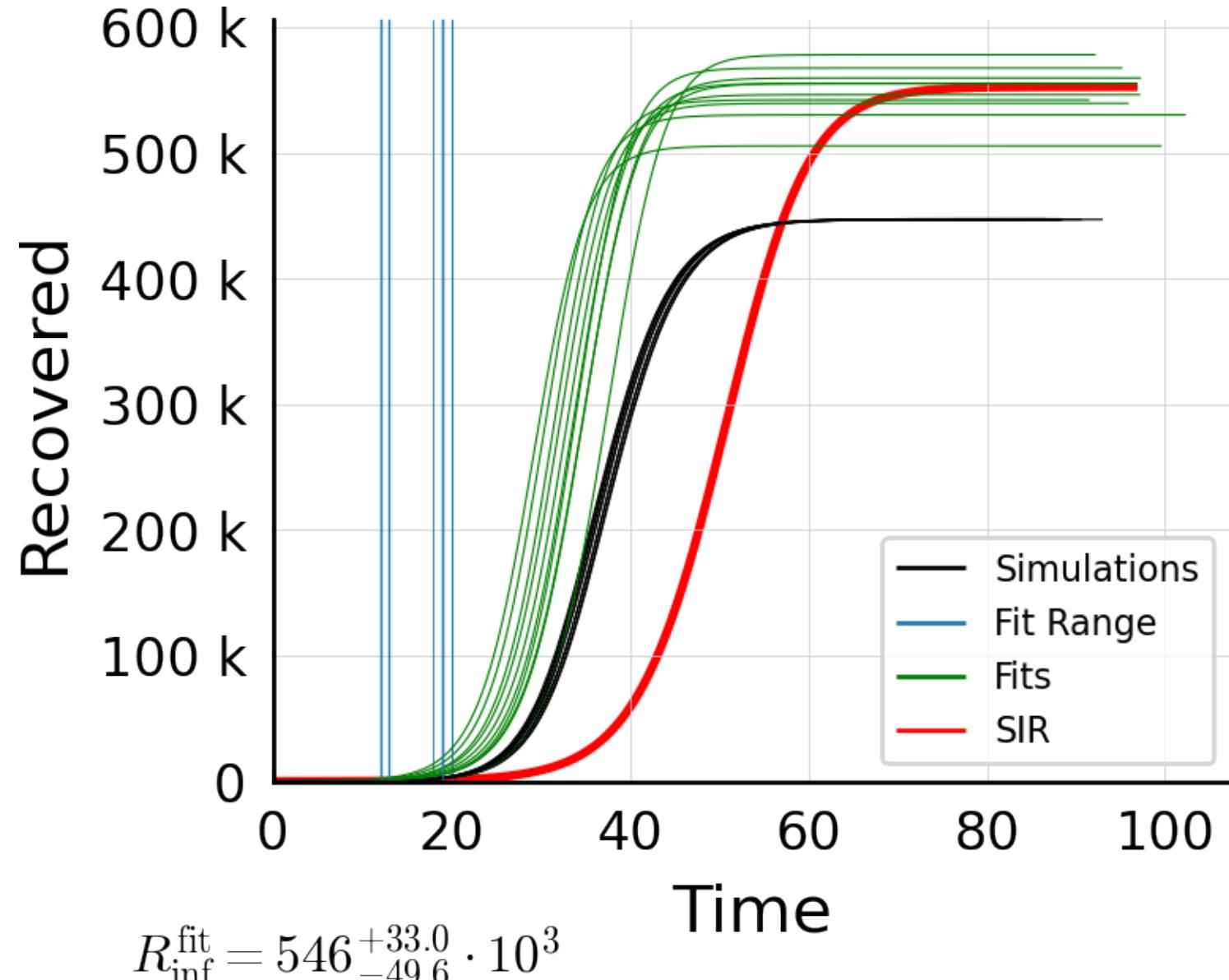
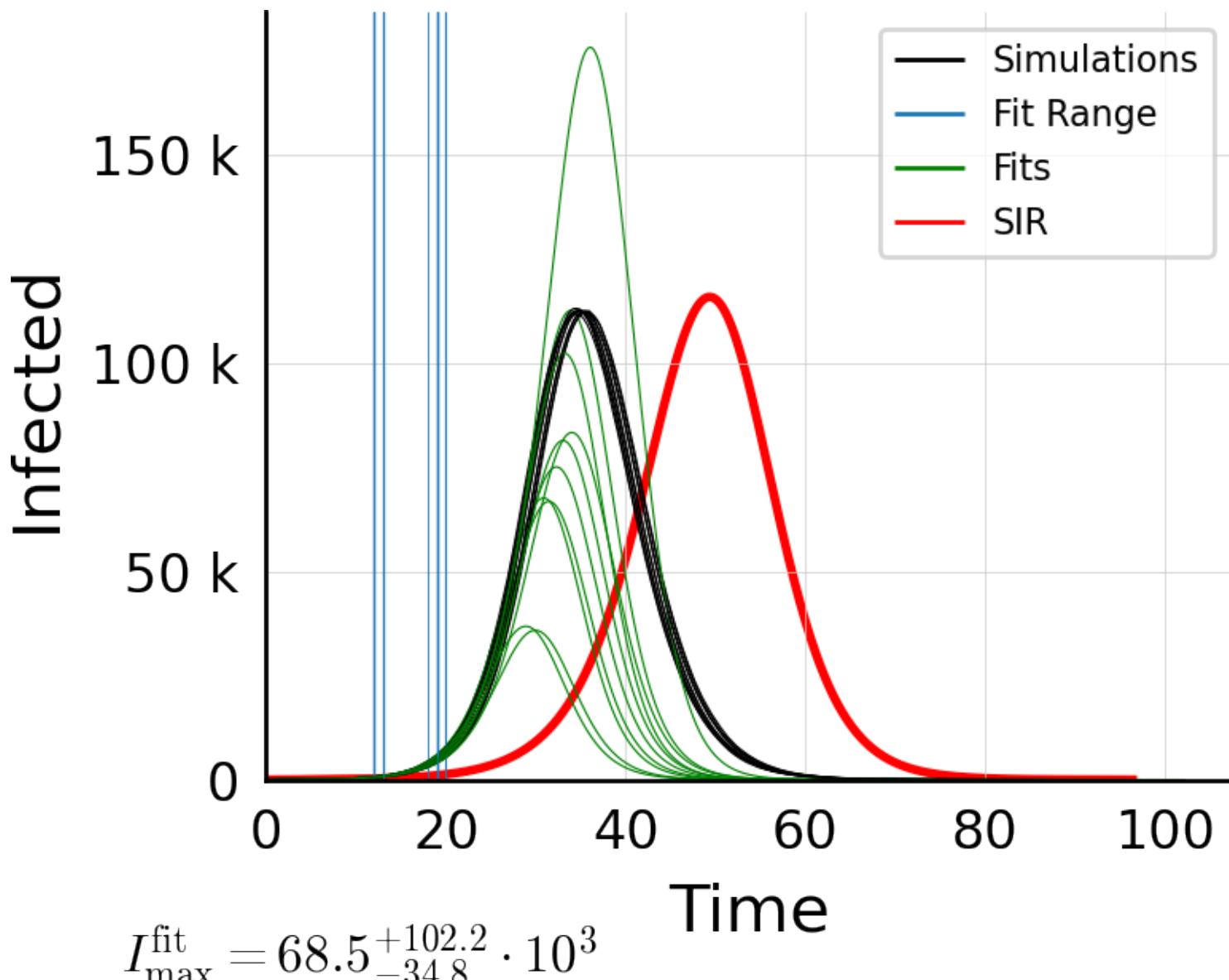
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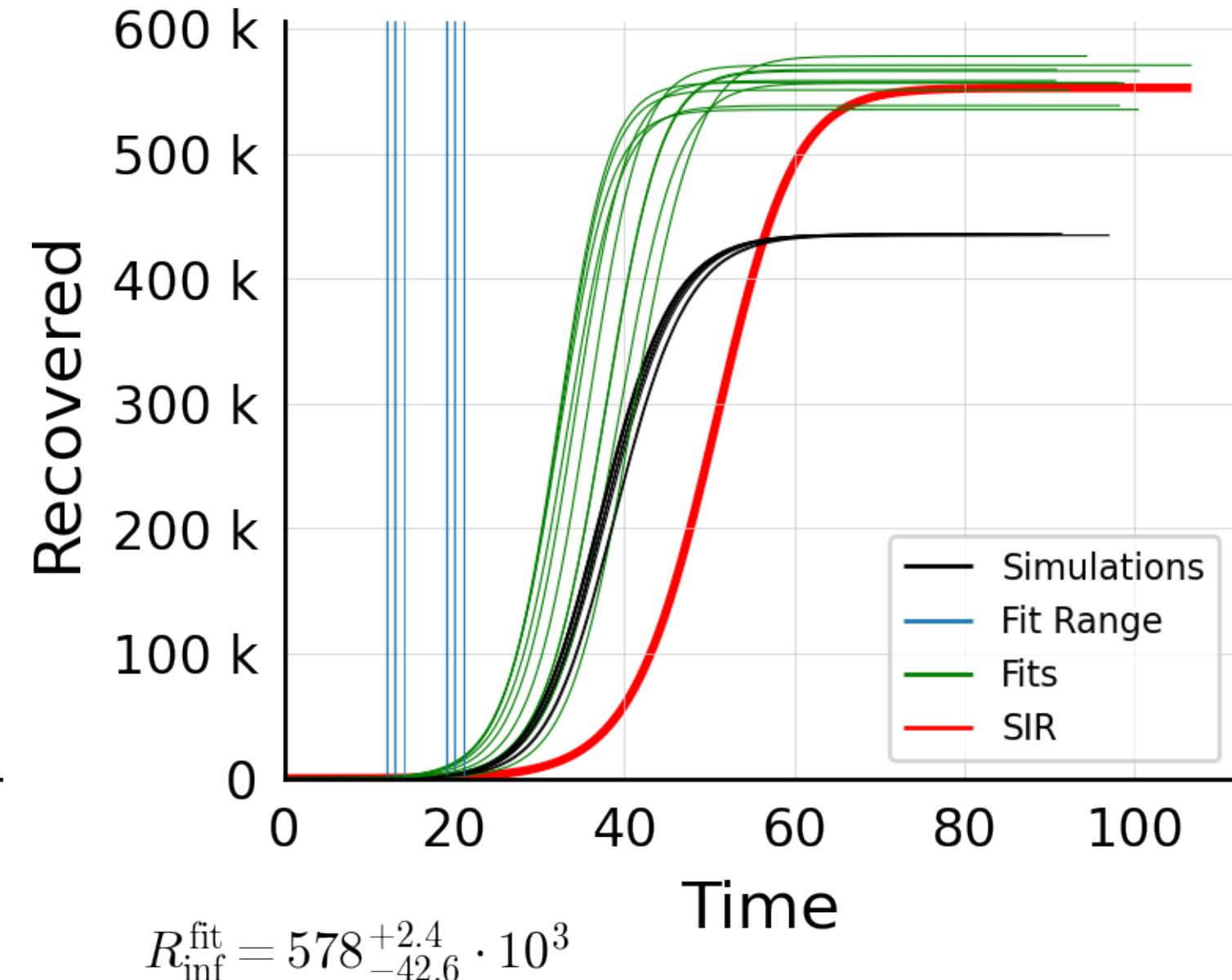
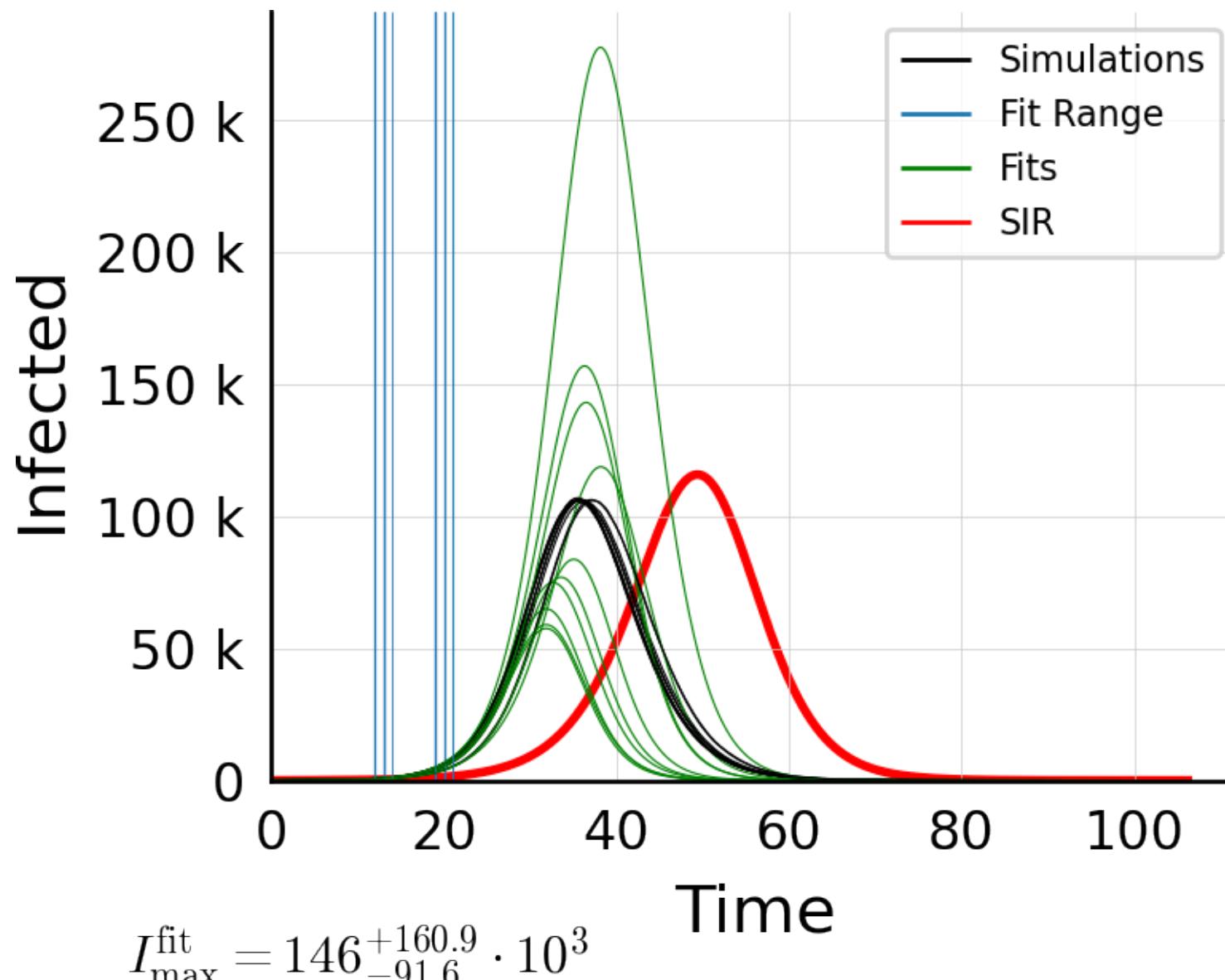
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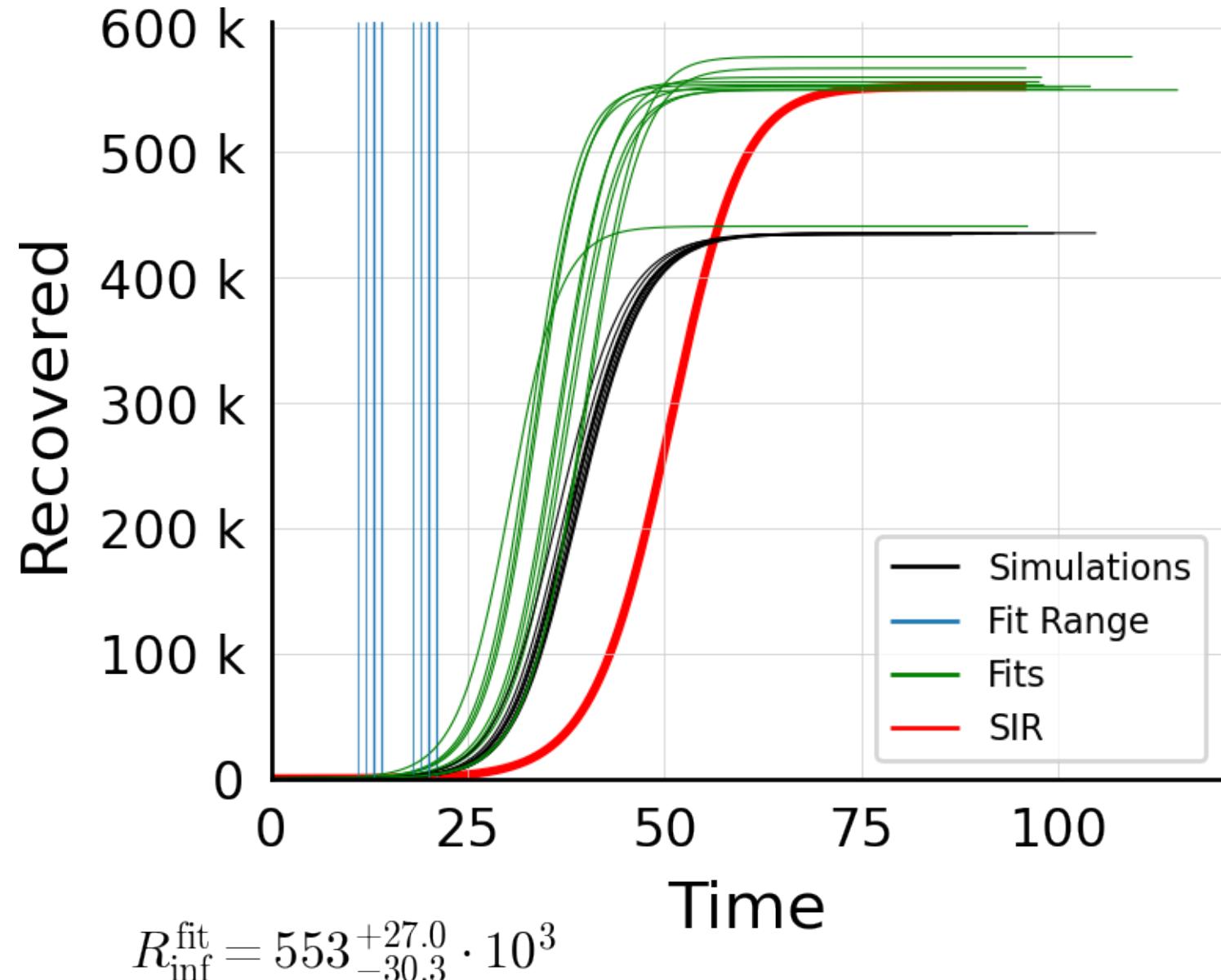
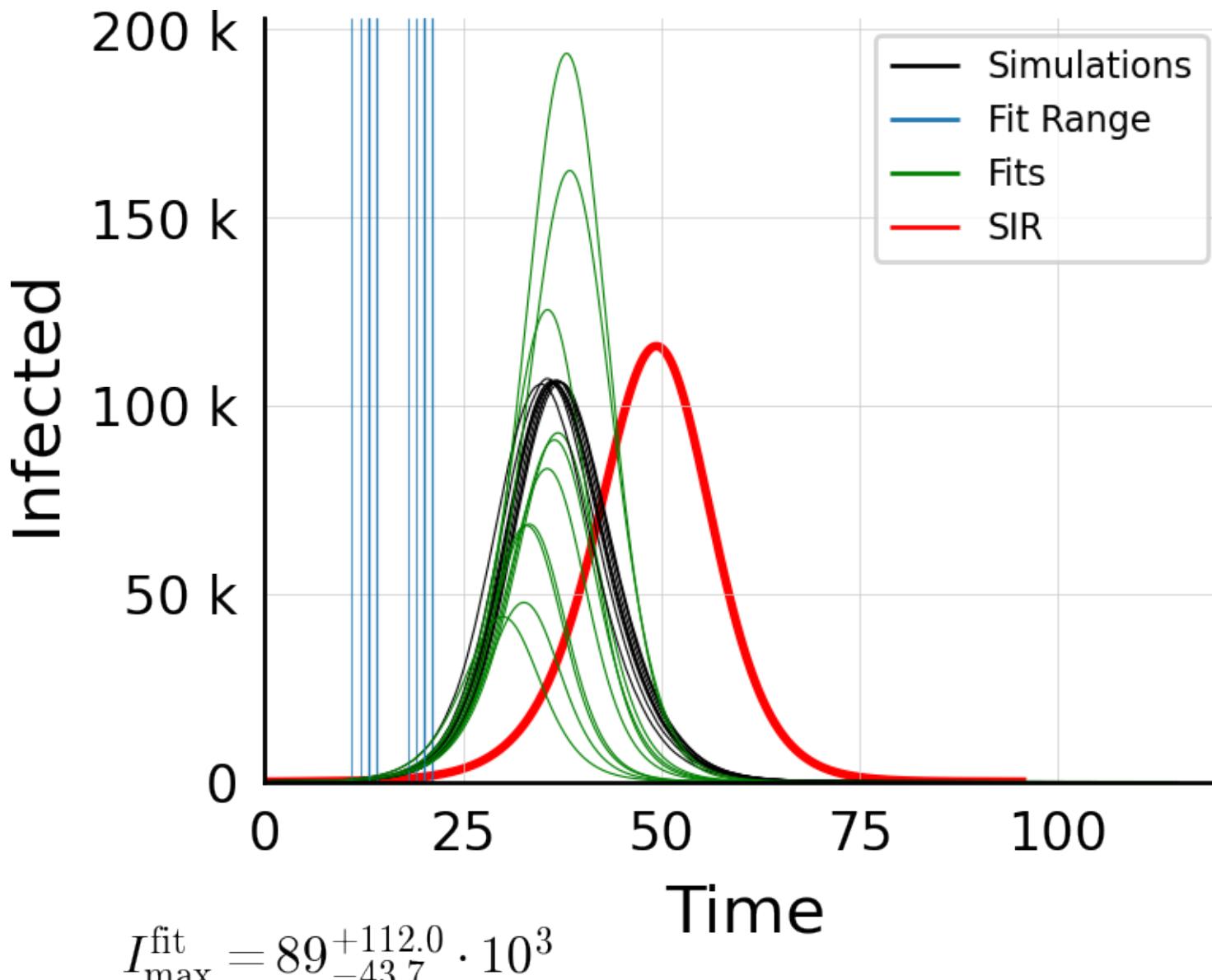
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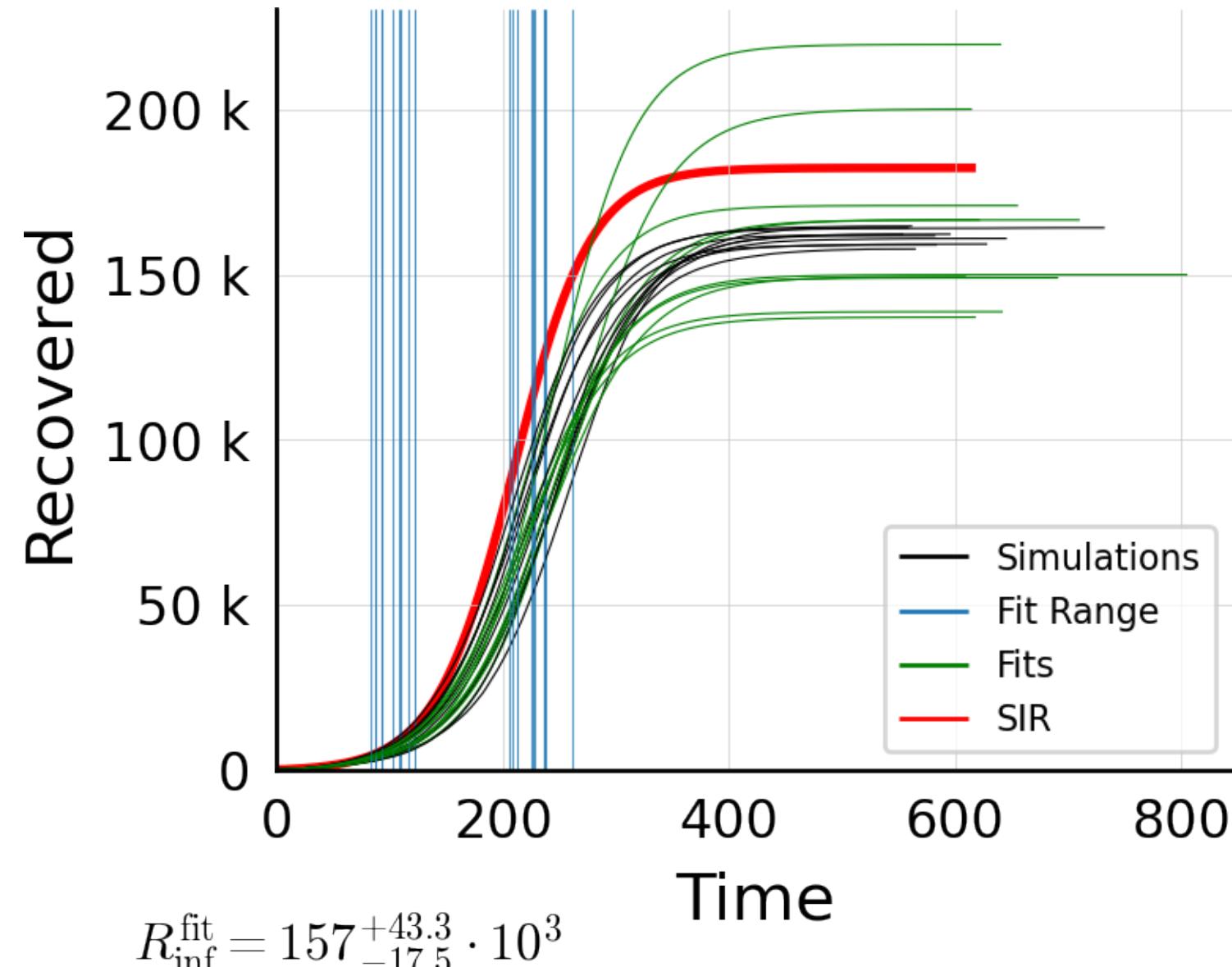
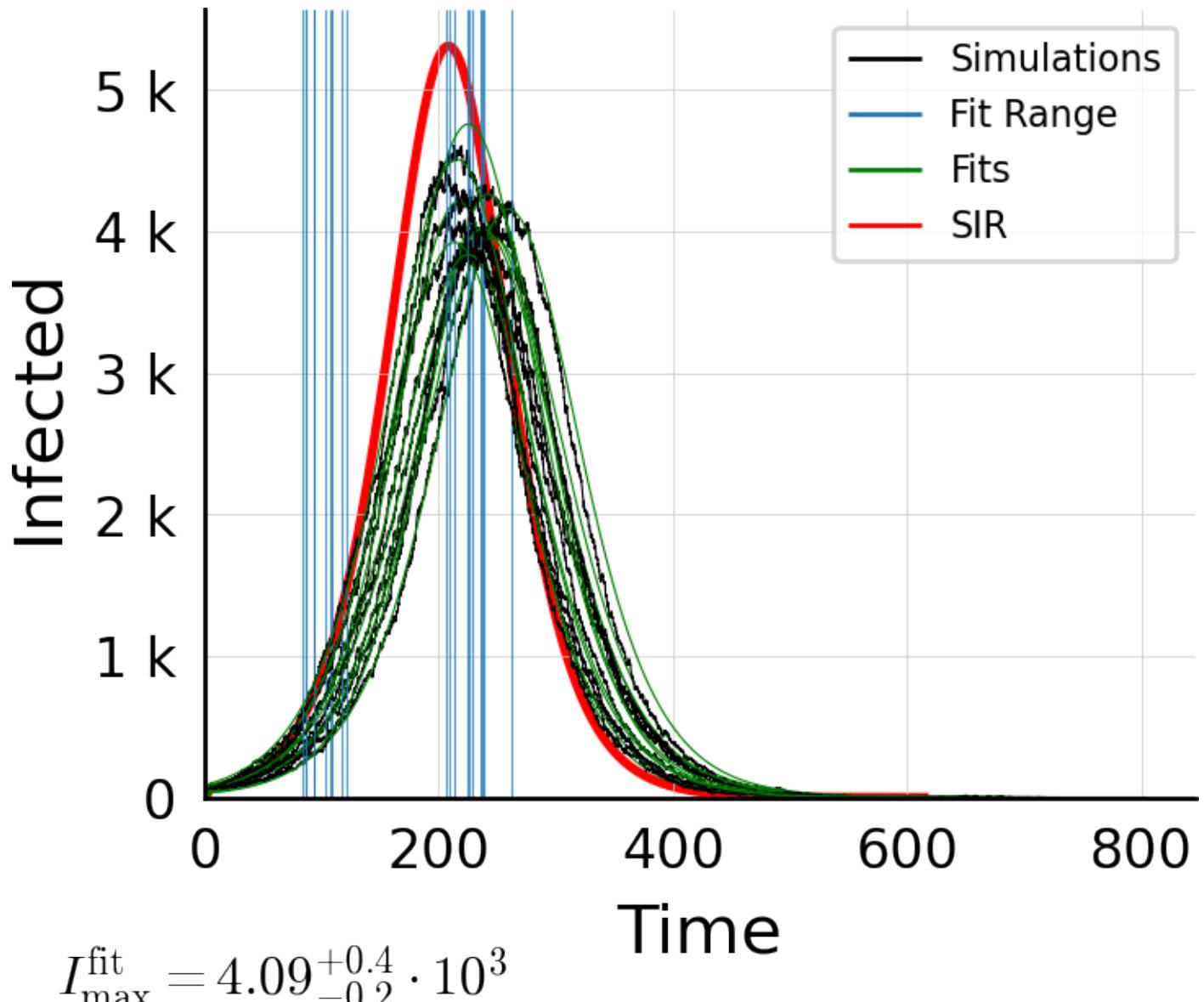
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



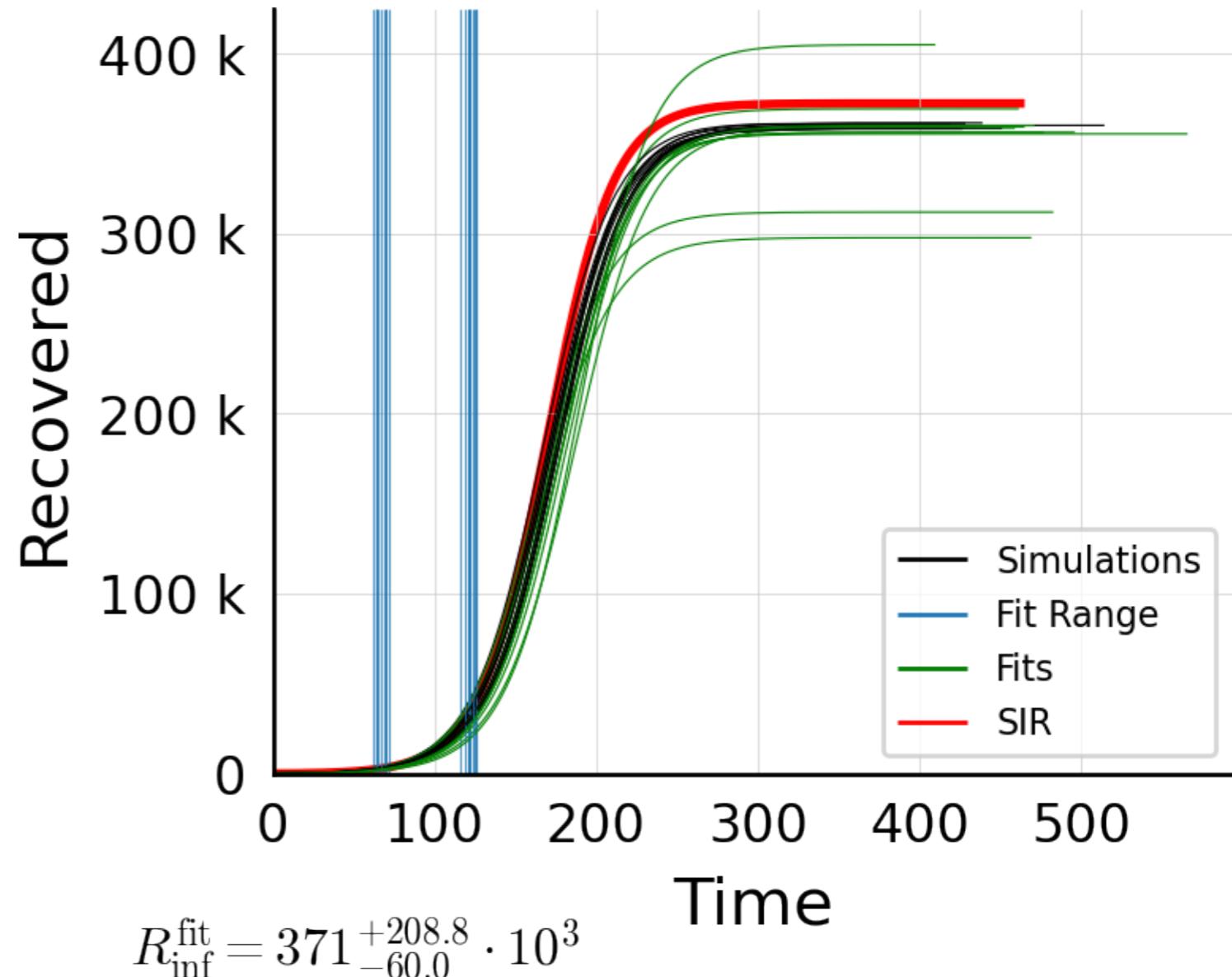
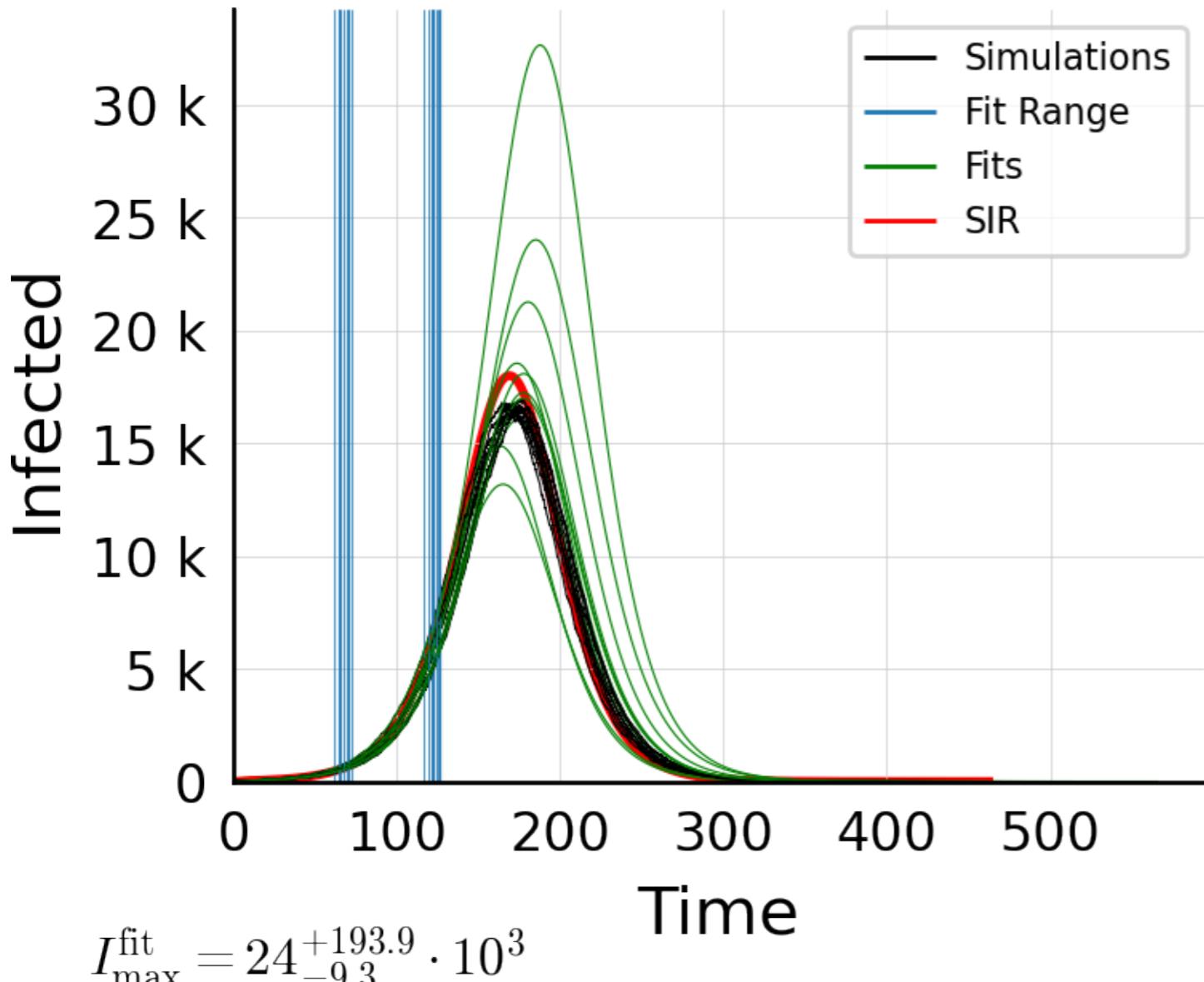
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



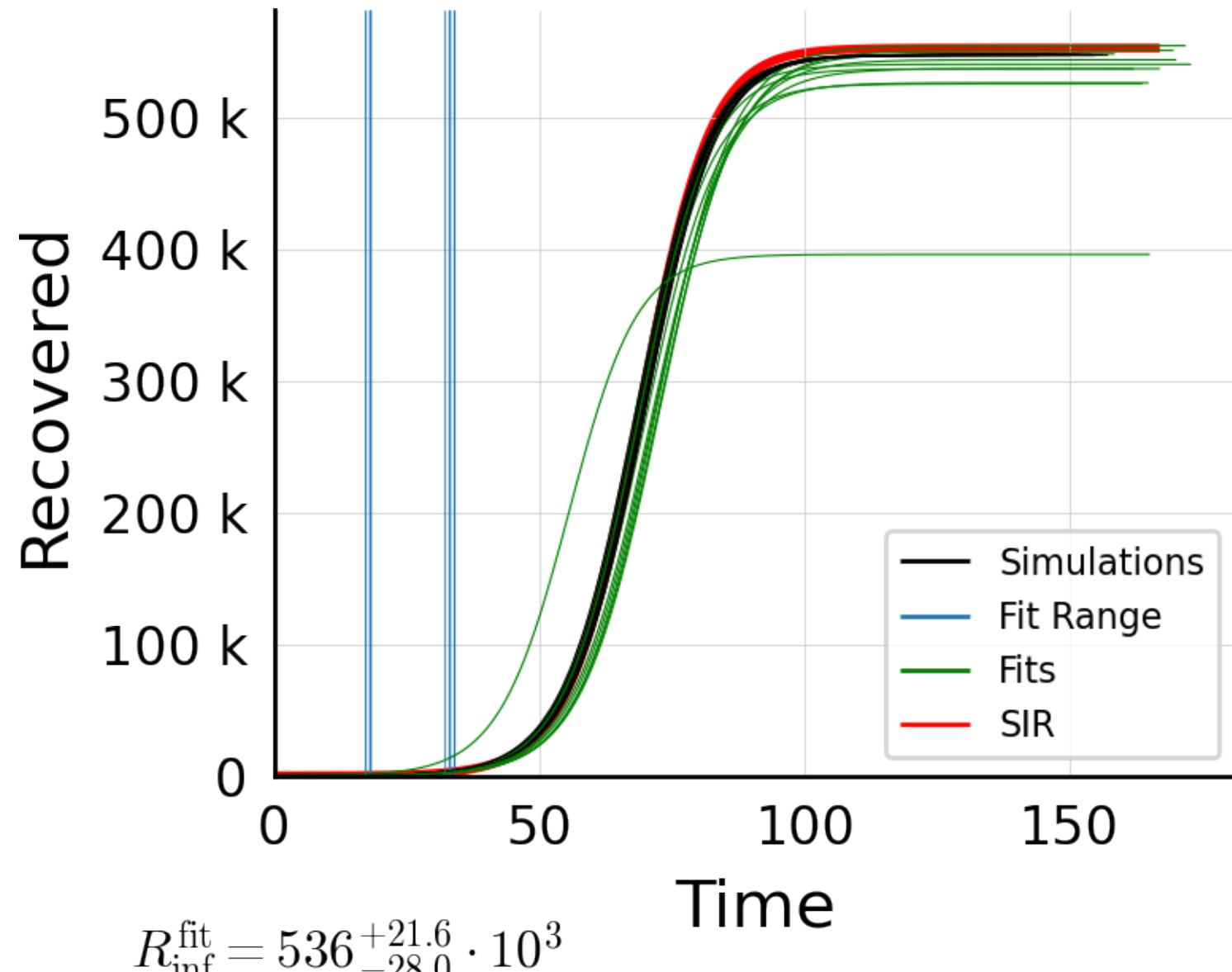
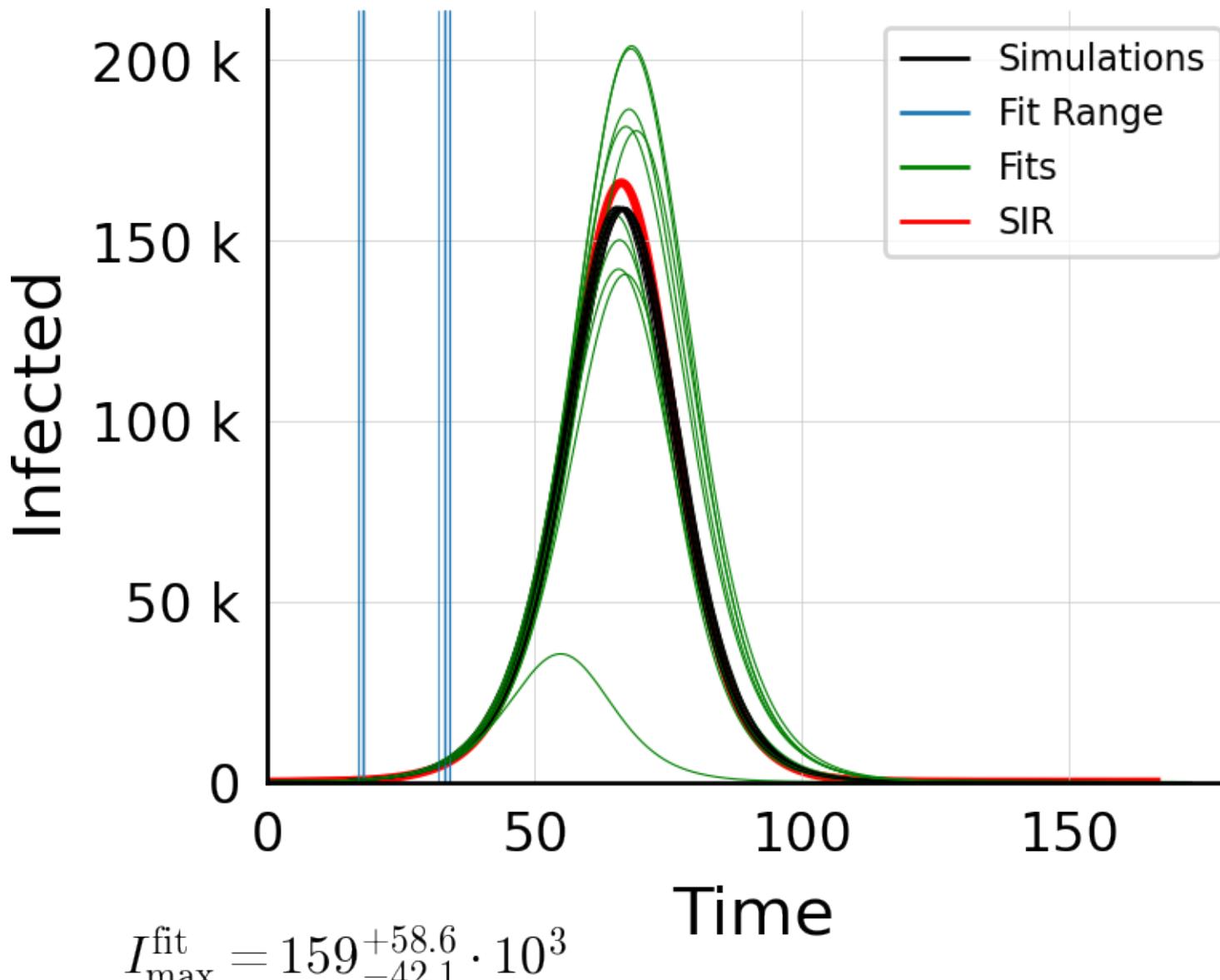
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



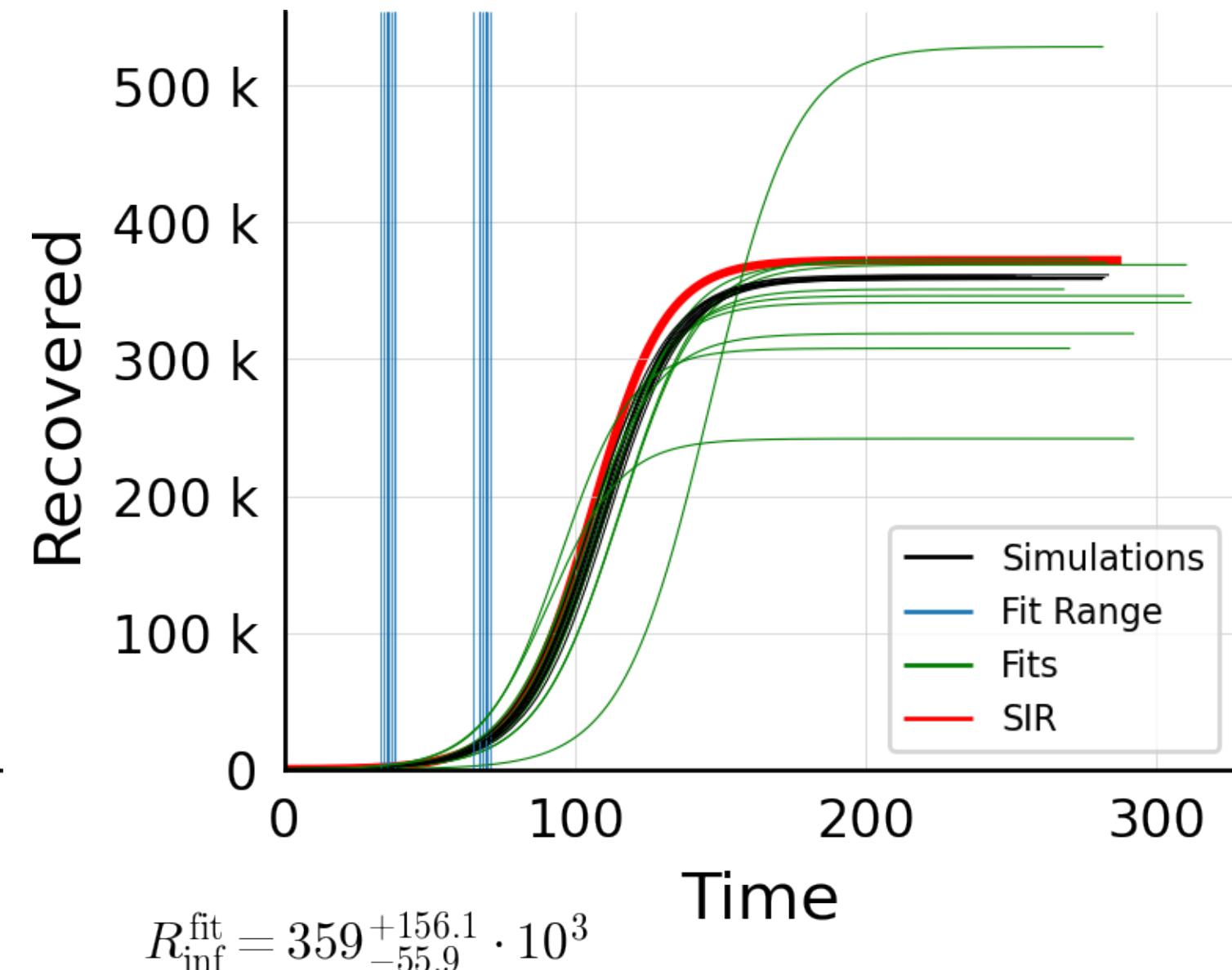
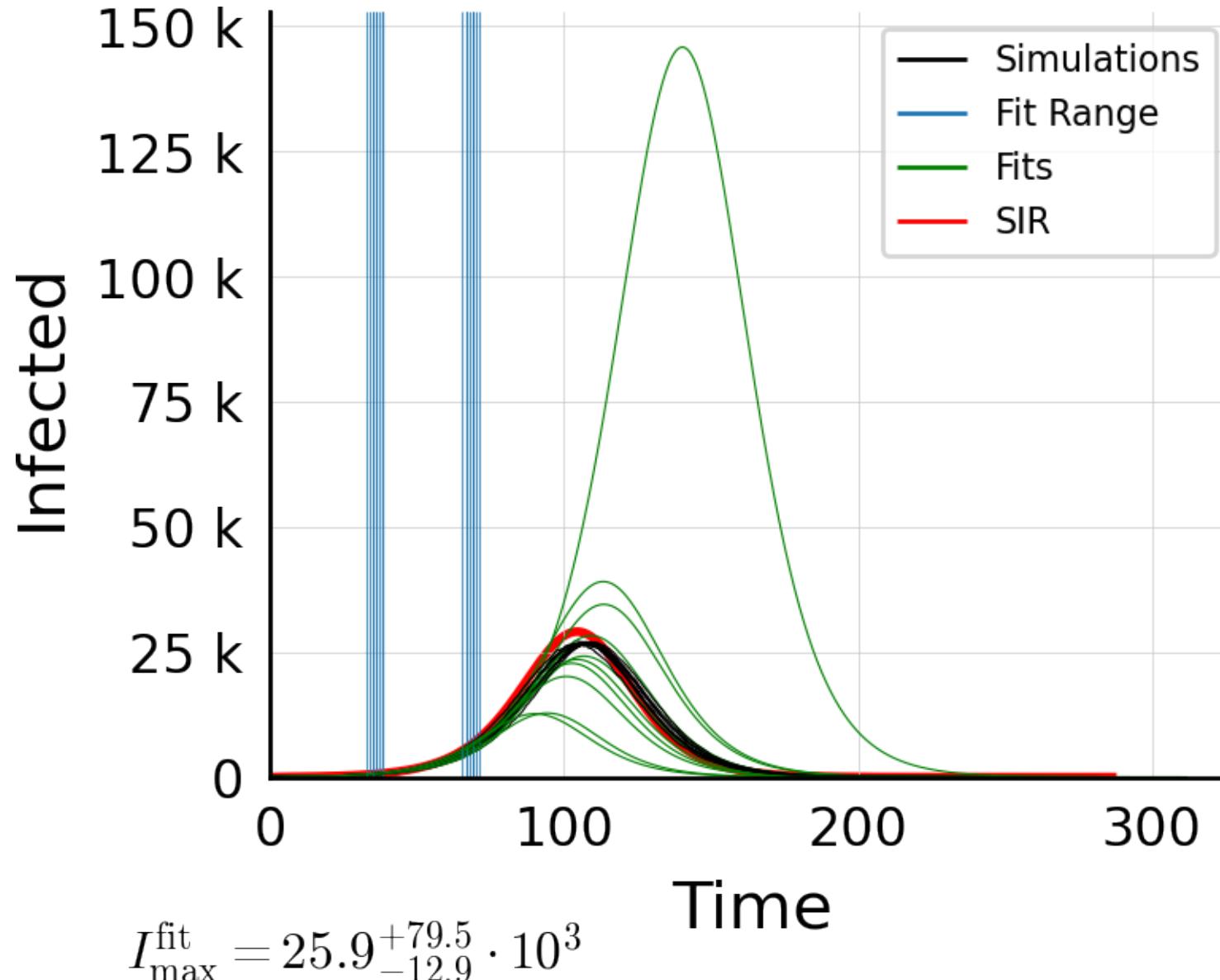
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 0.5$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



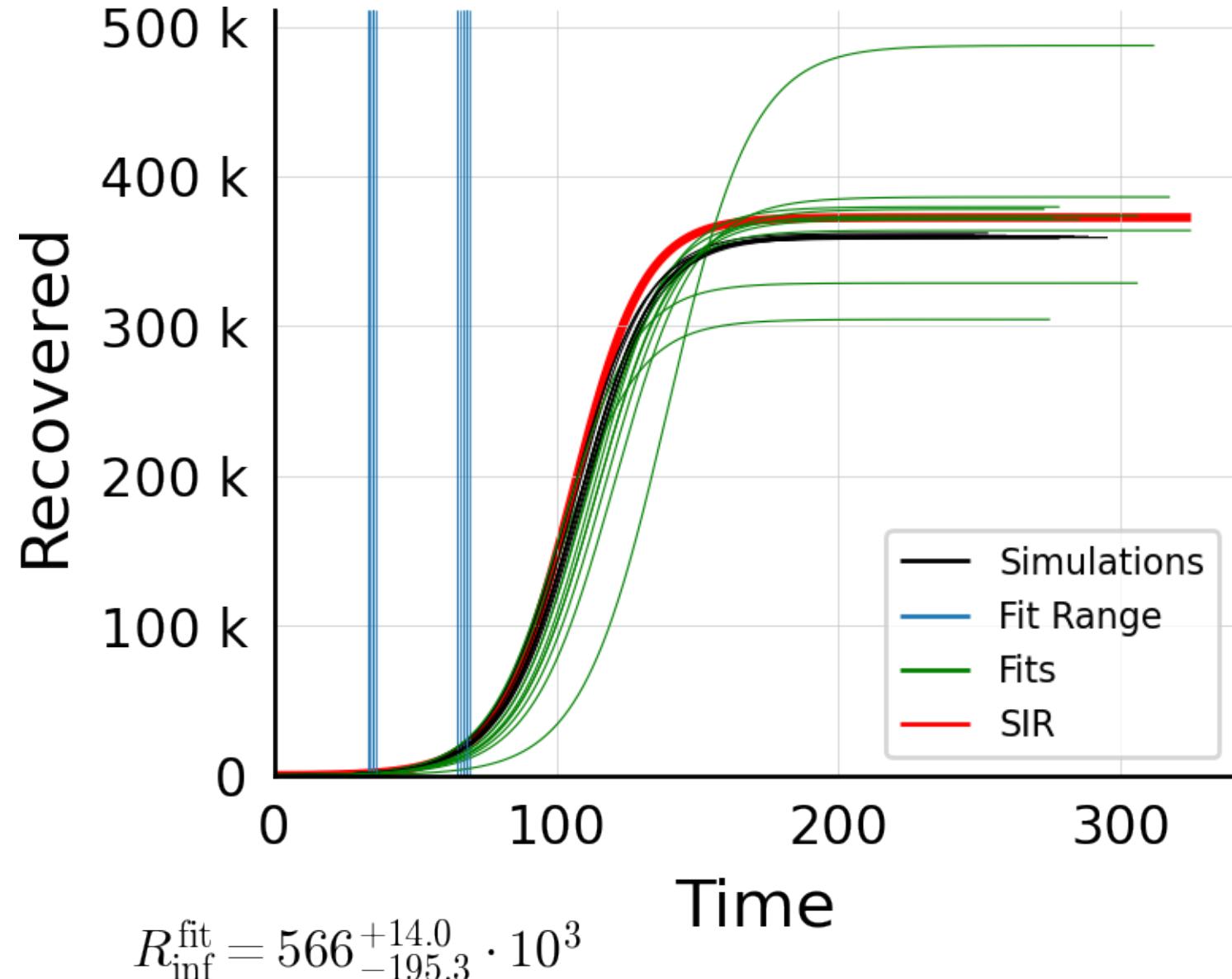
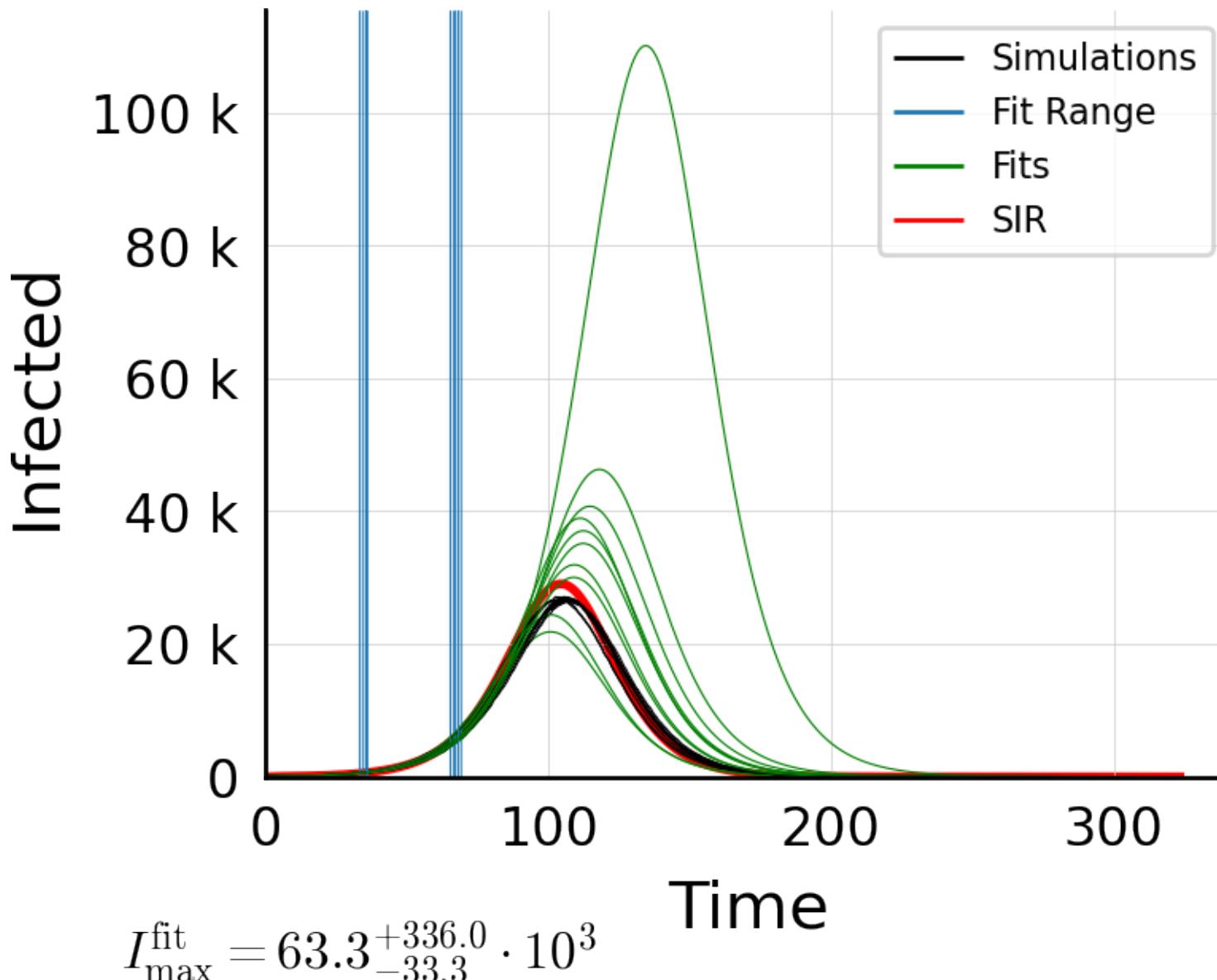
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 0.5$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



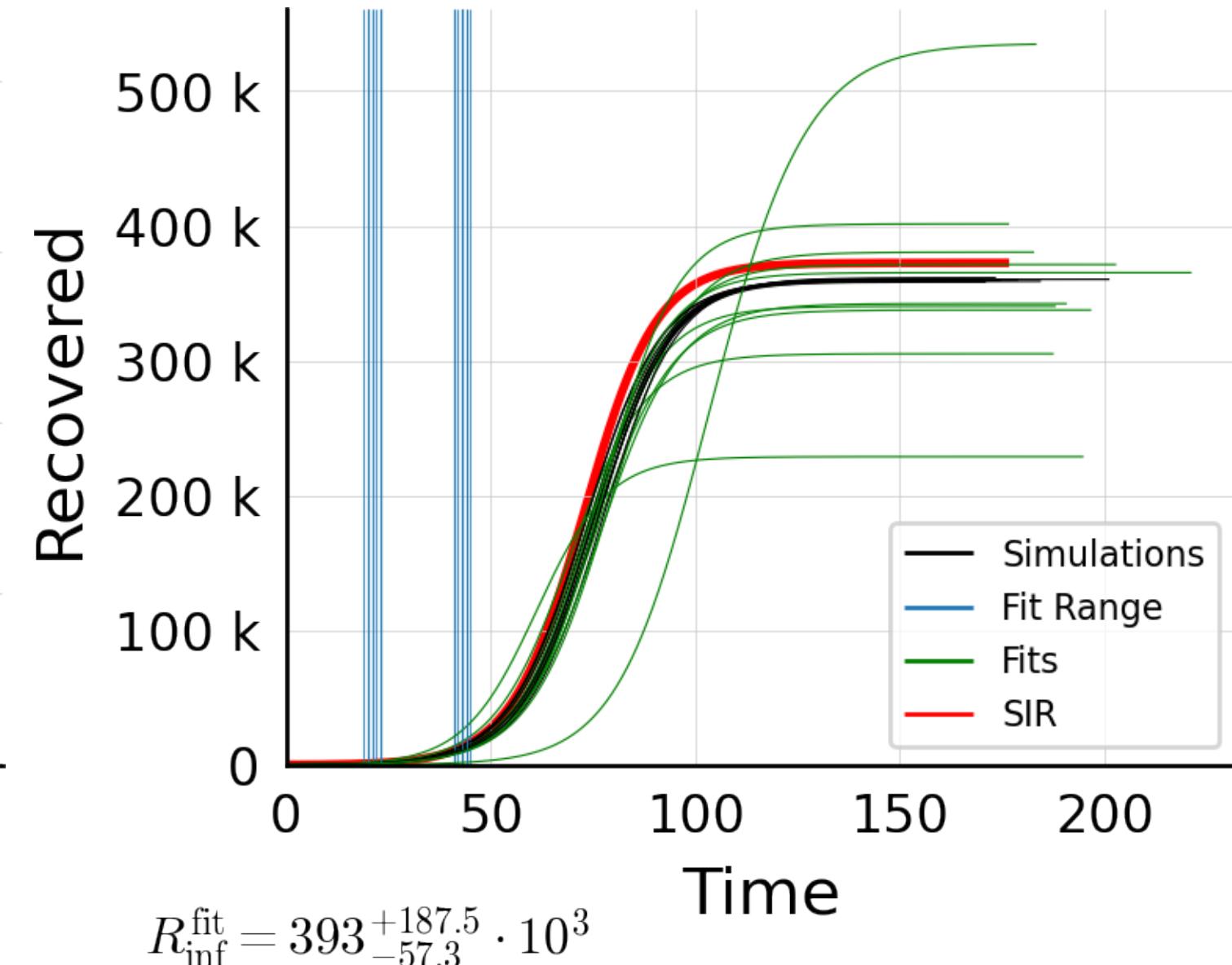
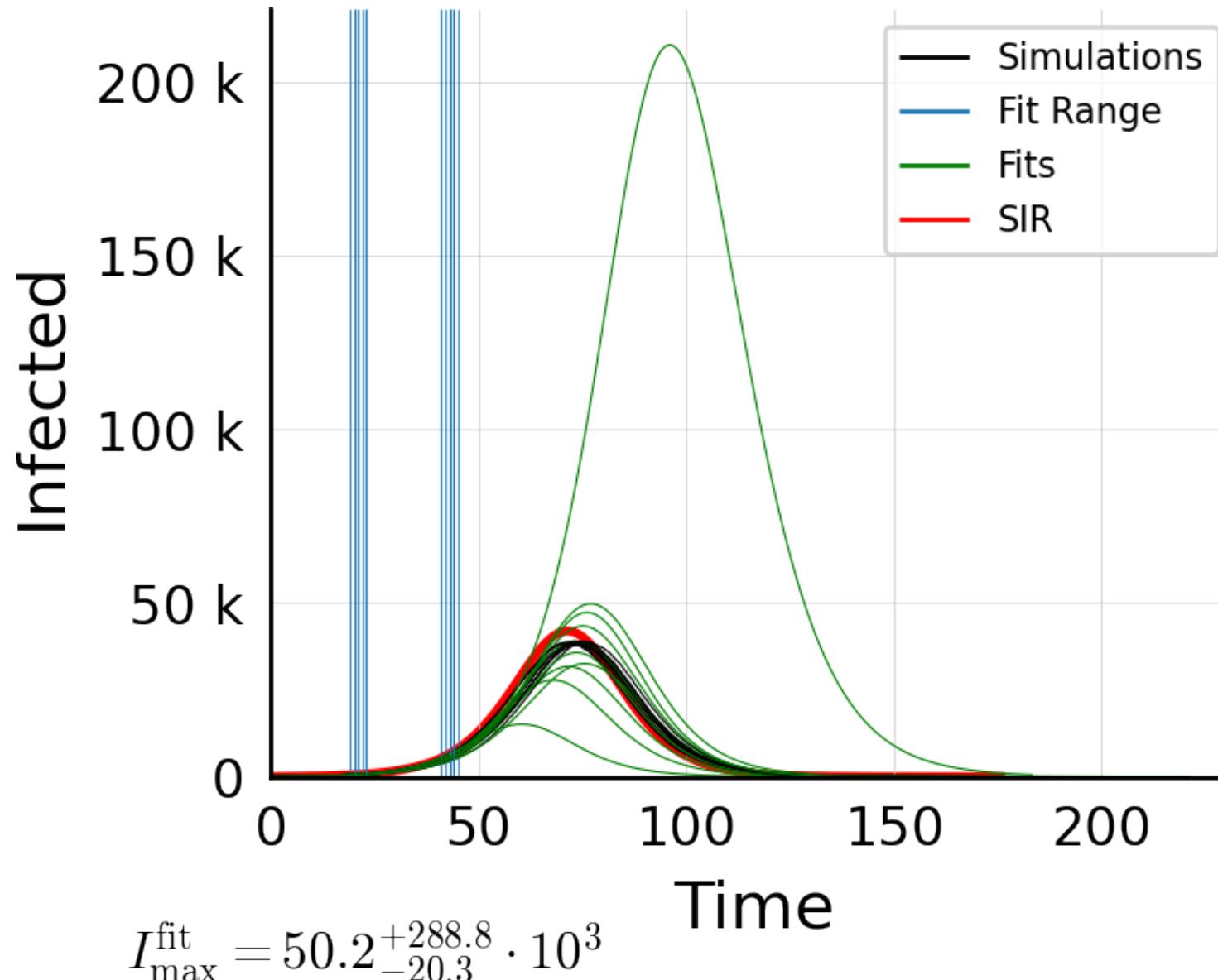
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ ,  $\#10$



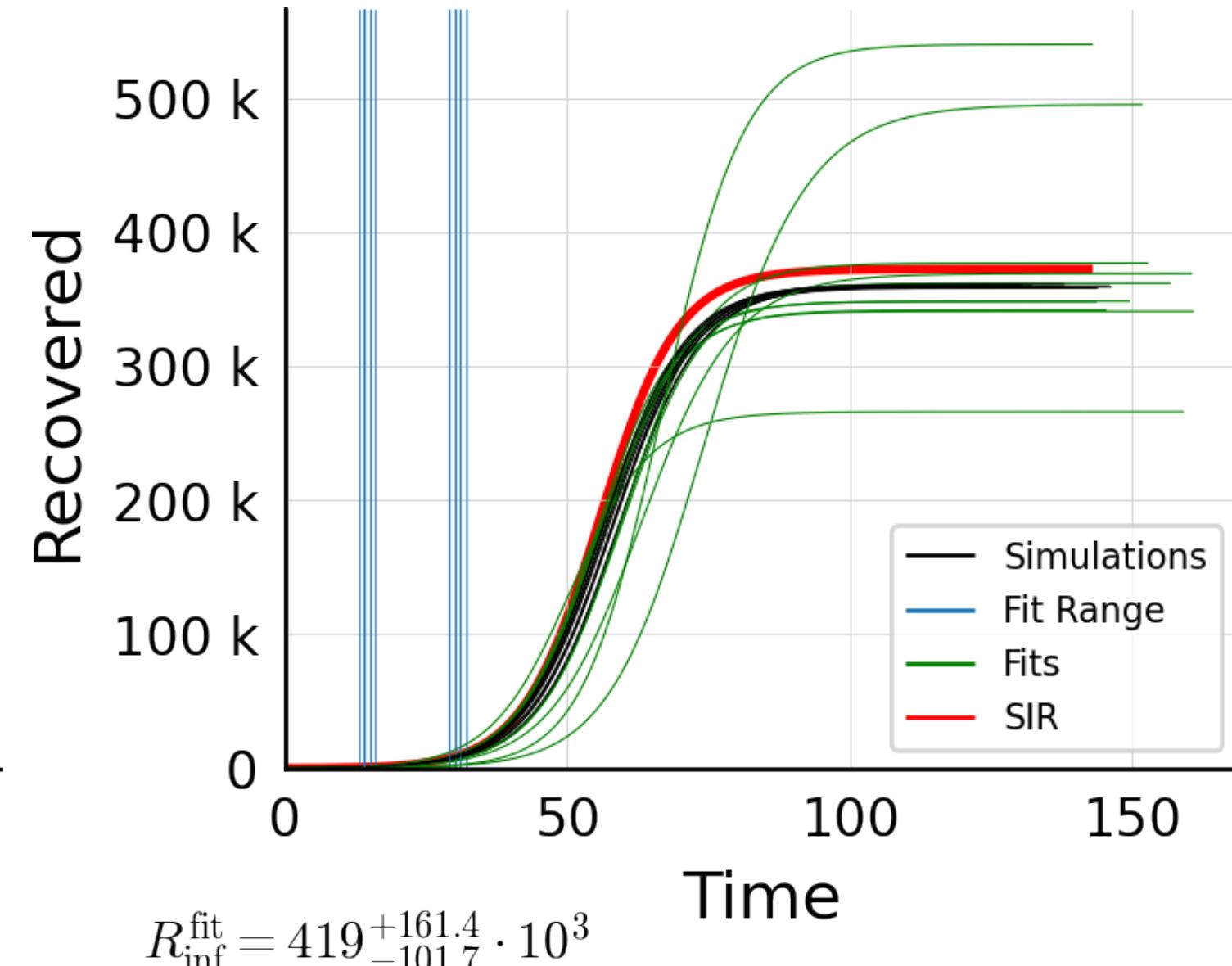
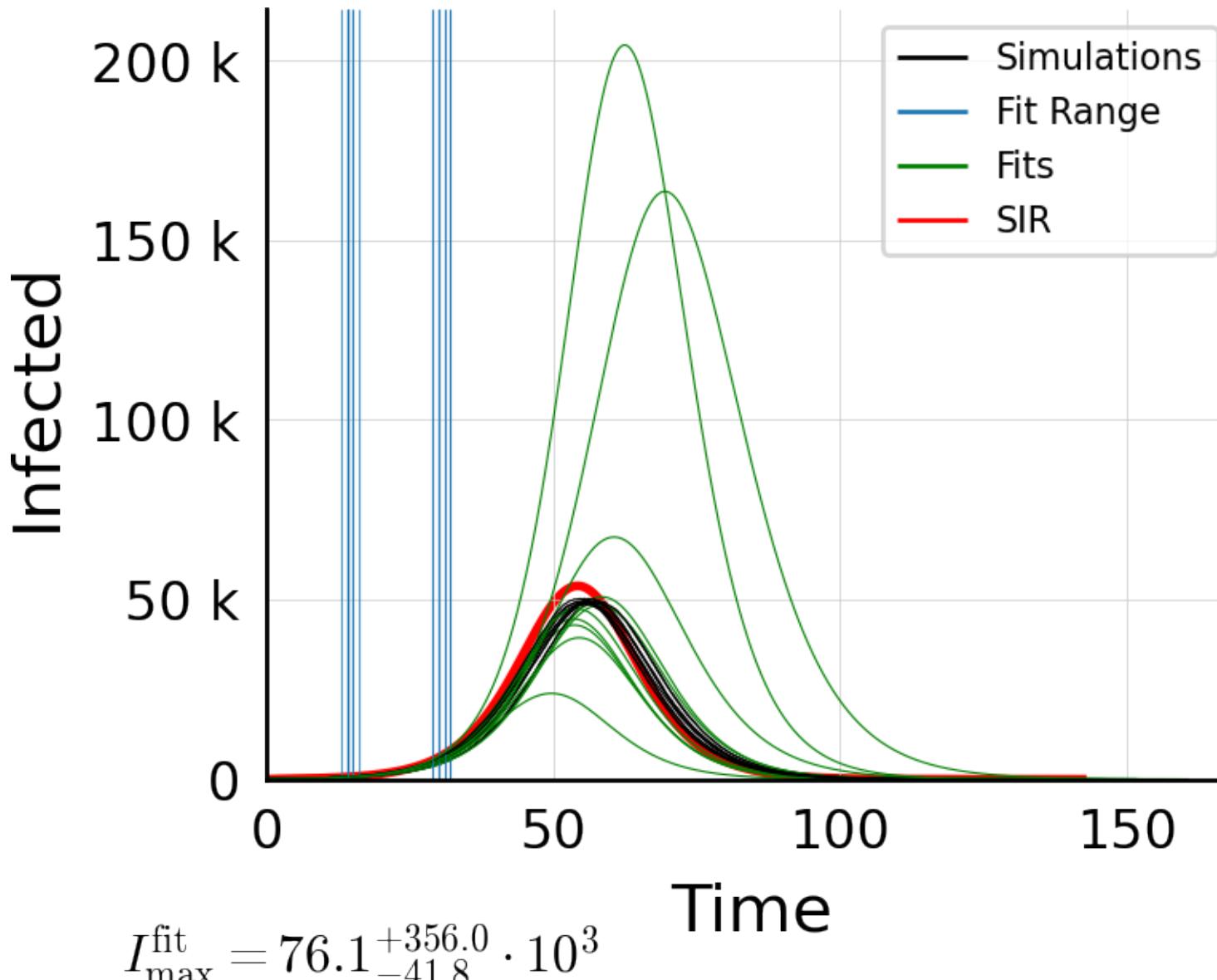
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ ,  $\#10$



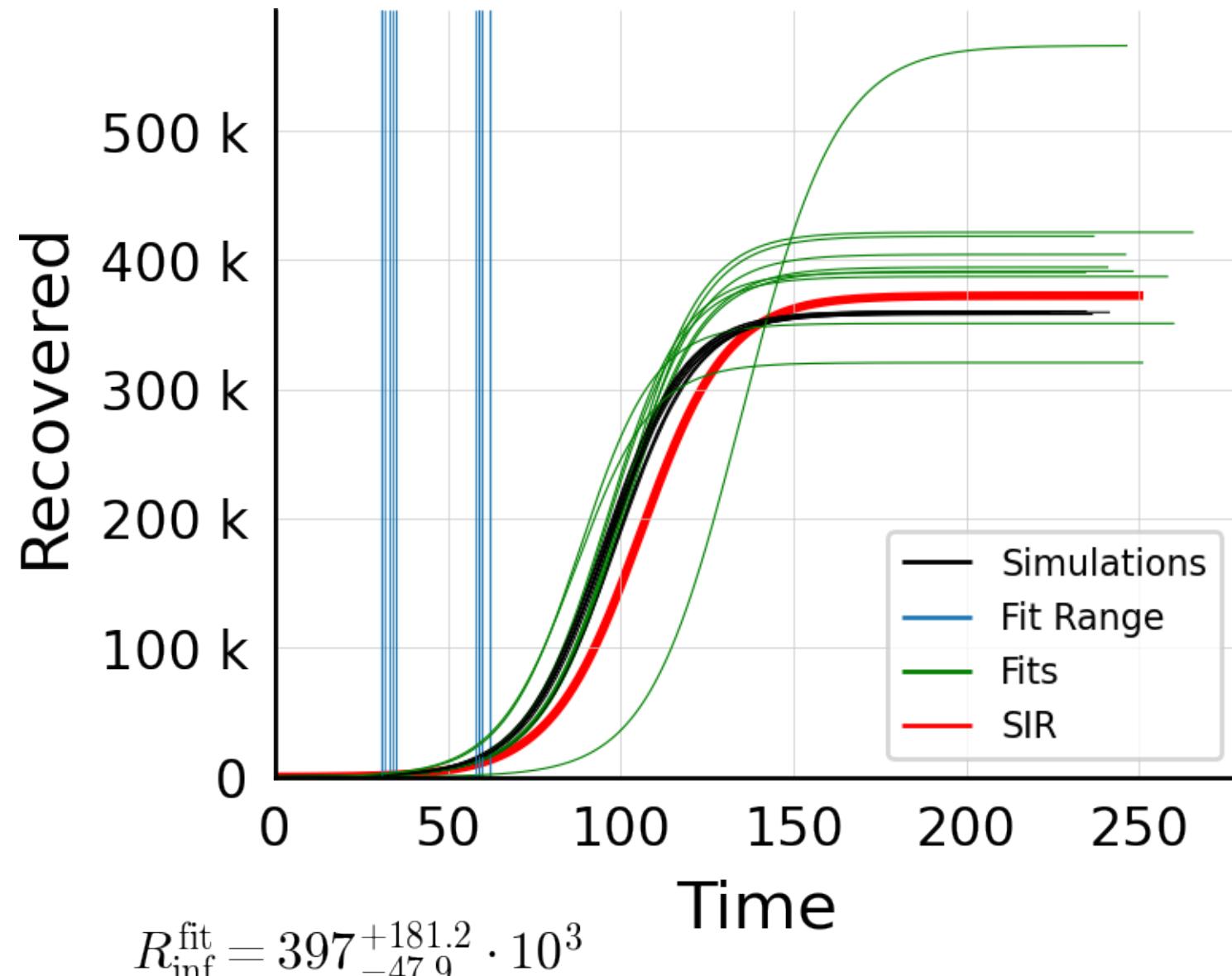
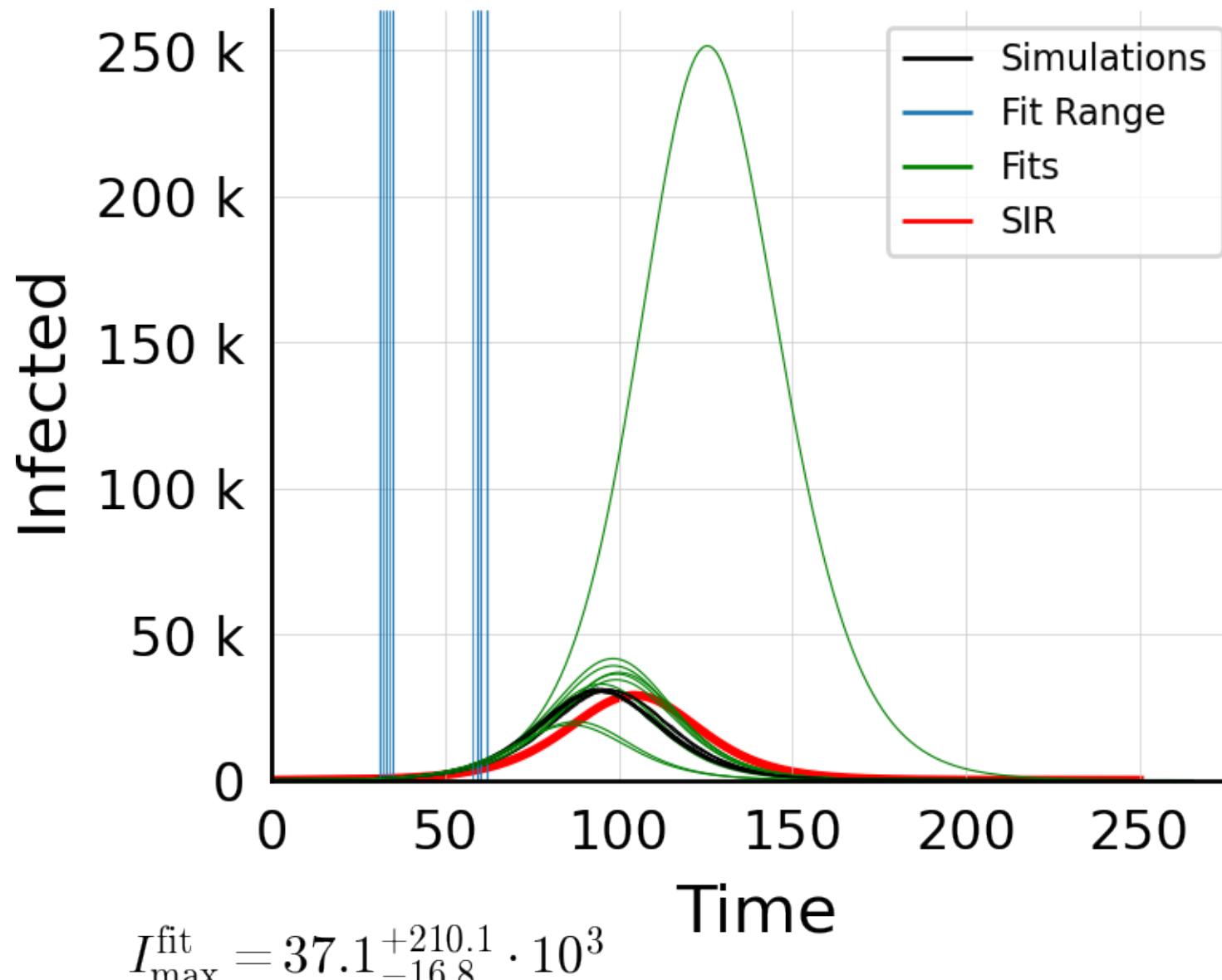
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 2.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 0.0$   
 $\lambda_E = 4.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 10.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.01$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 2$ , #10



$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $N_{\text{ages}} = 1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ ,  $\rho = 100.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ ,  $\epsilon_\rho = 0.005$ ,  $\beta_{\text{scaling}} = 1.0$ ,  $\text{age}_{\text{mixing}} = 1.0$ ,  $\text{algo} = 1$ , #10

