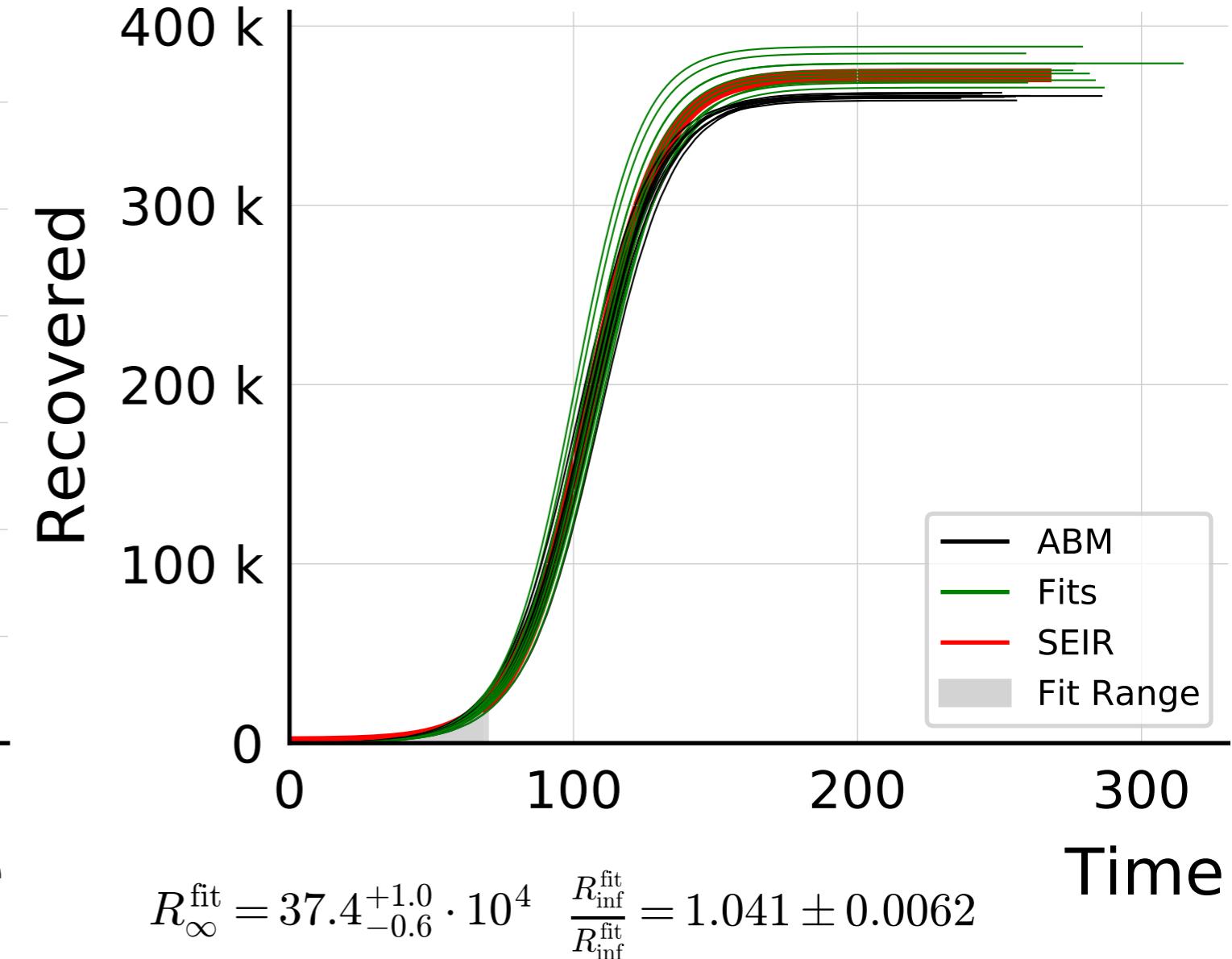
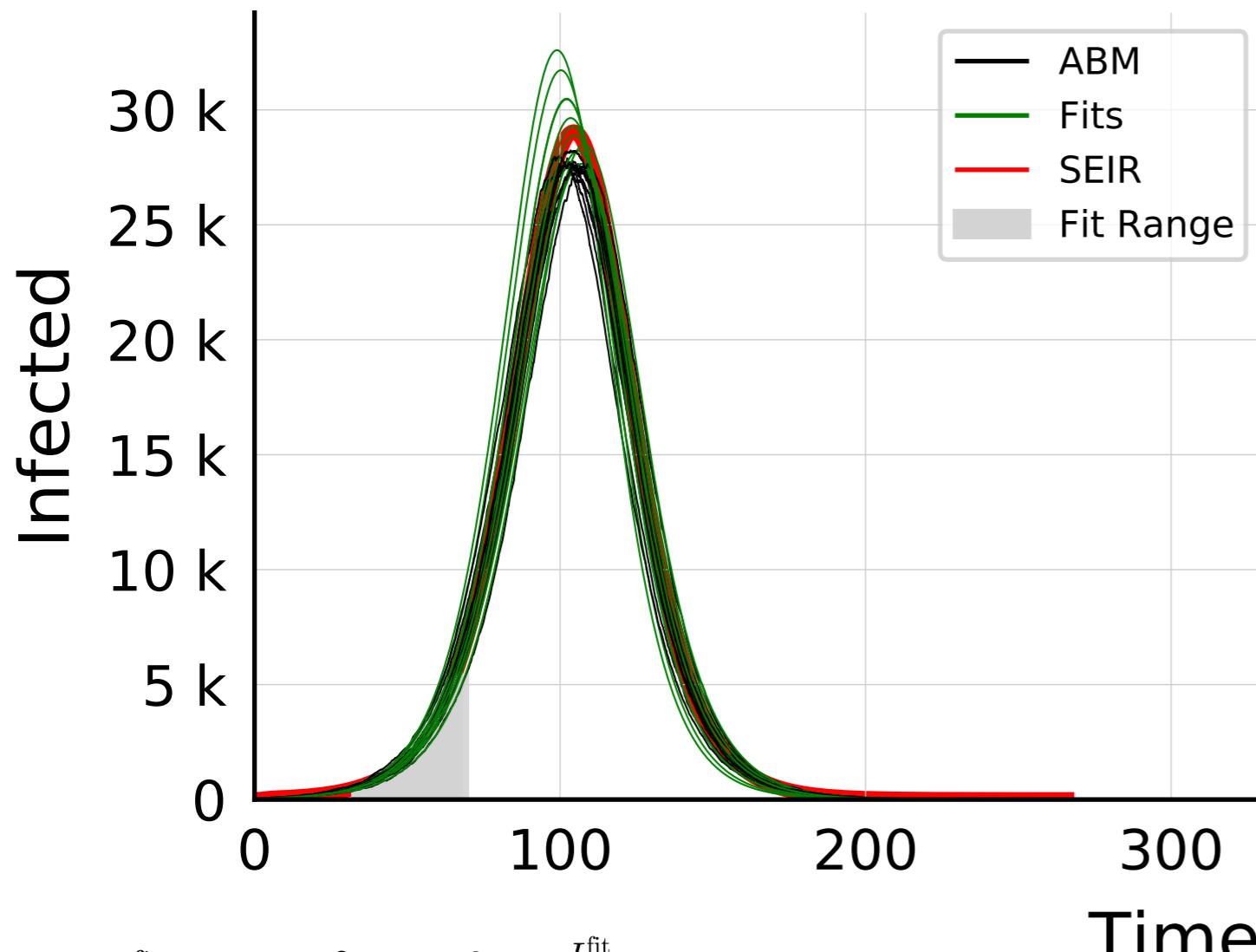
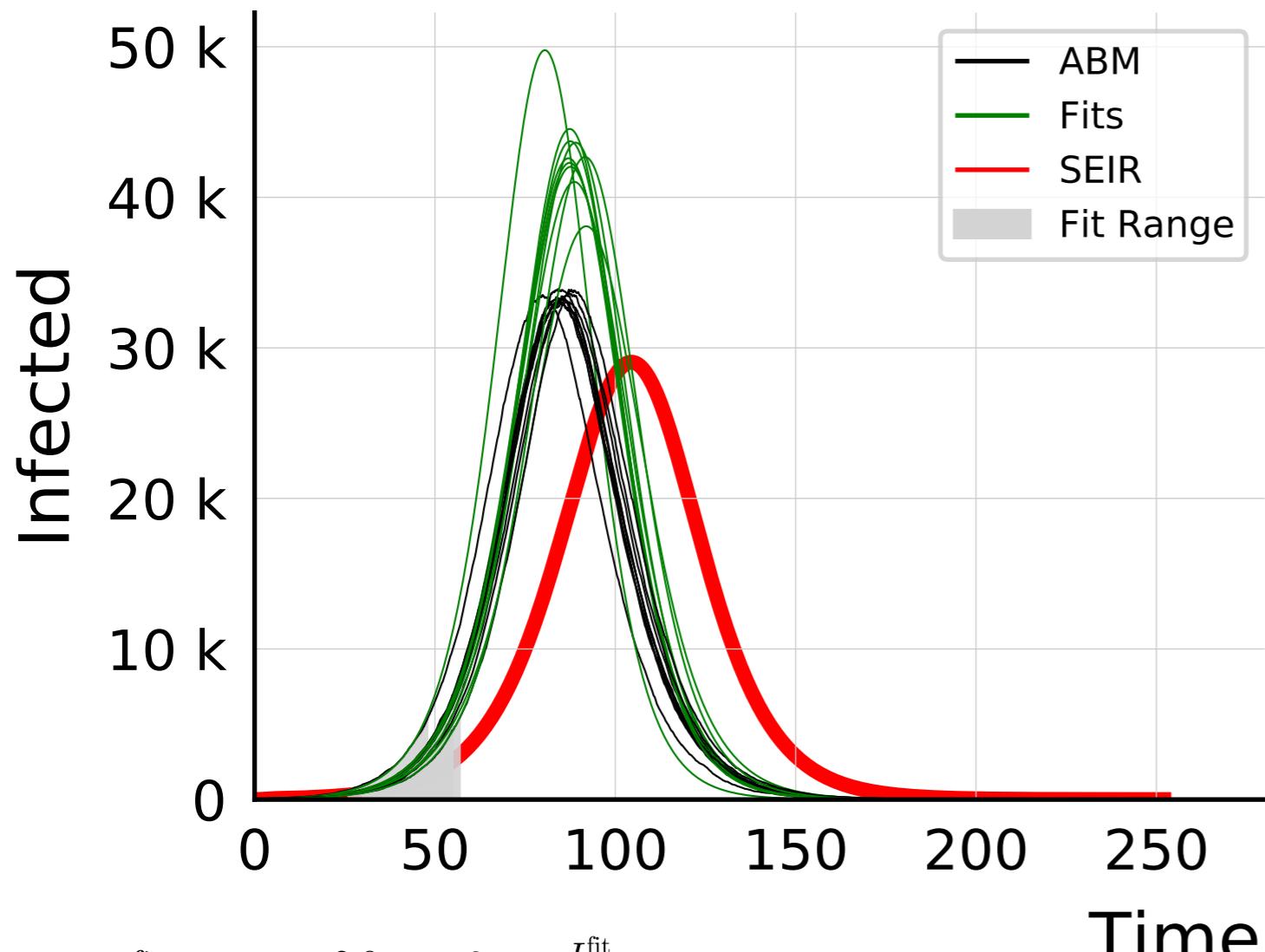


$N_{\text{tot}} = 580K$, $\rho = 0.005$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

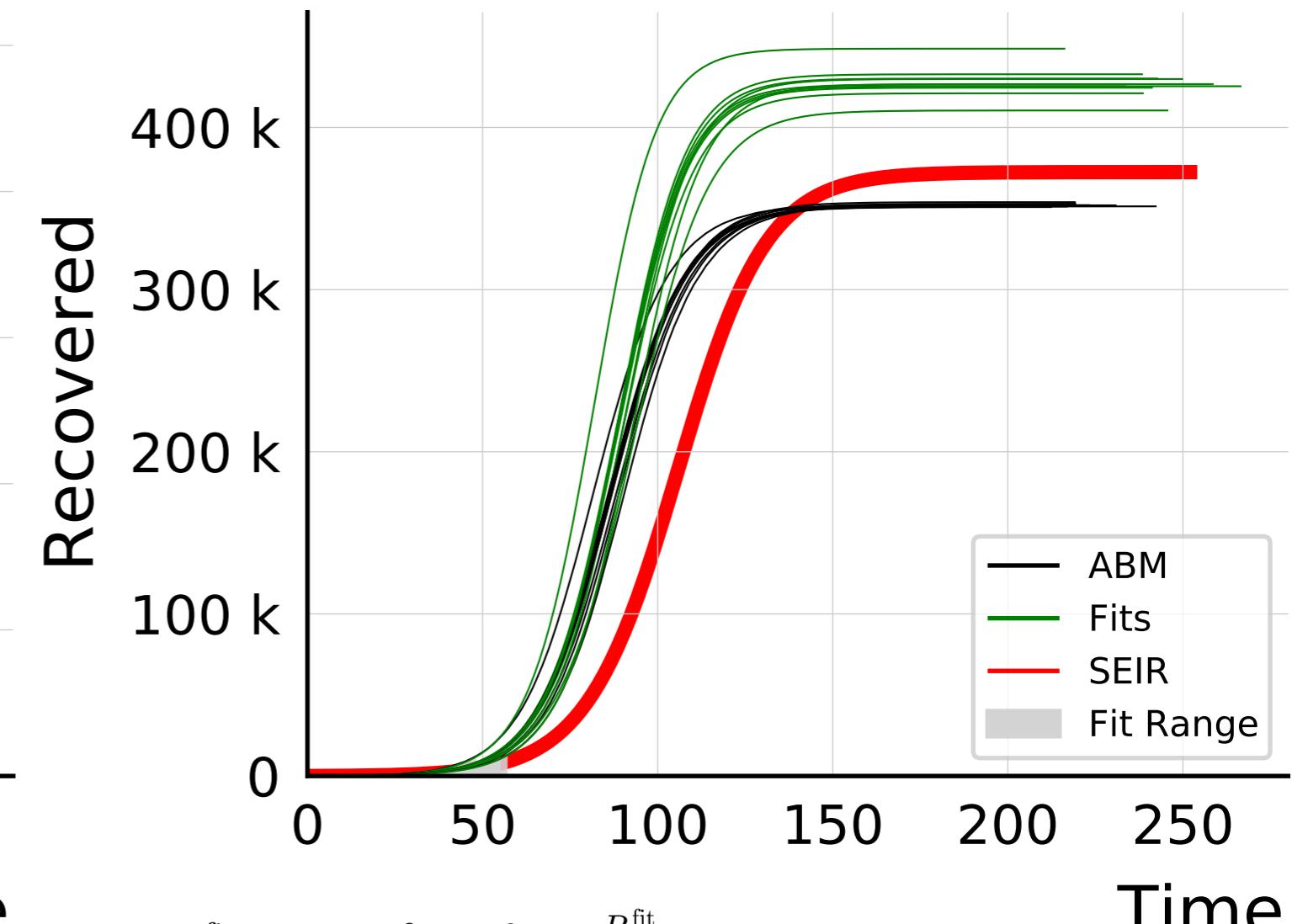


$N_{\text{tot}} = 580K$, $\rho = 0.015$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 43^{+2.0}_{-1.5} \cdot 10^3$$

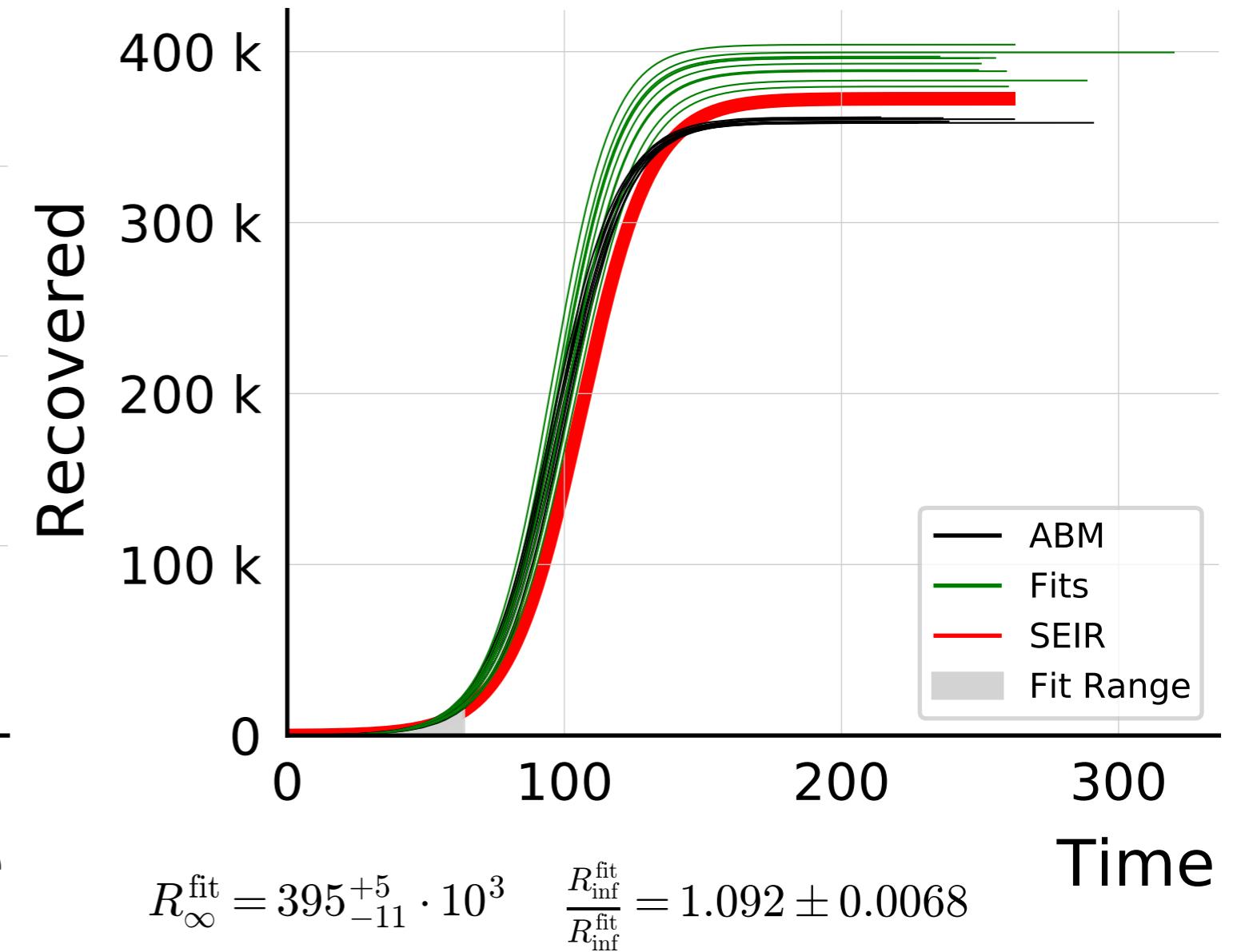
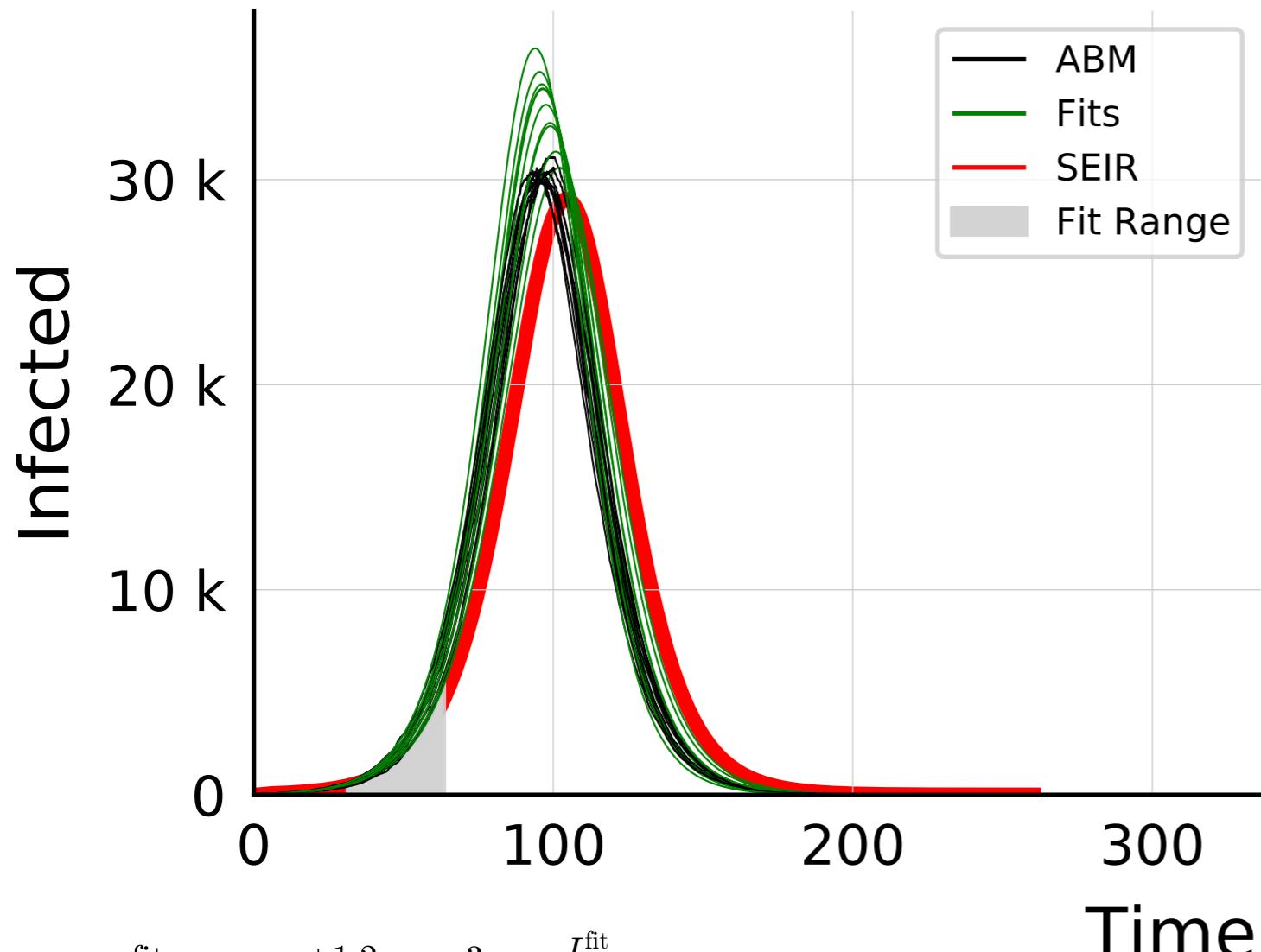
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.29 \pm 0.027$$



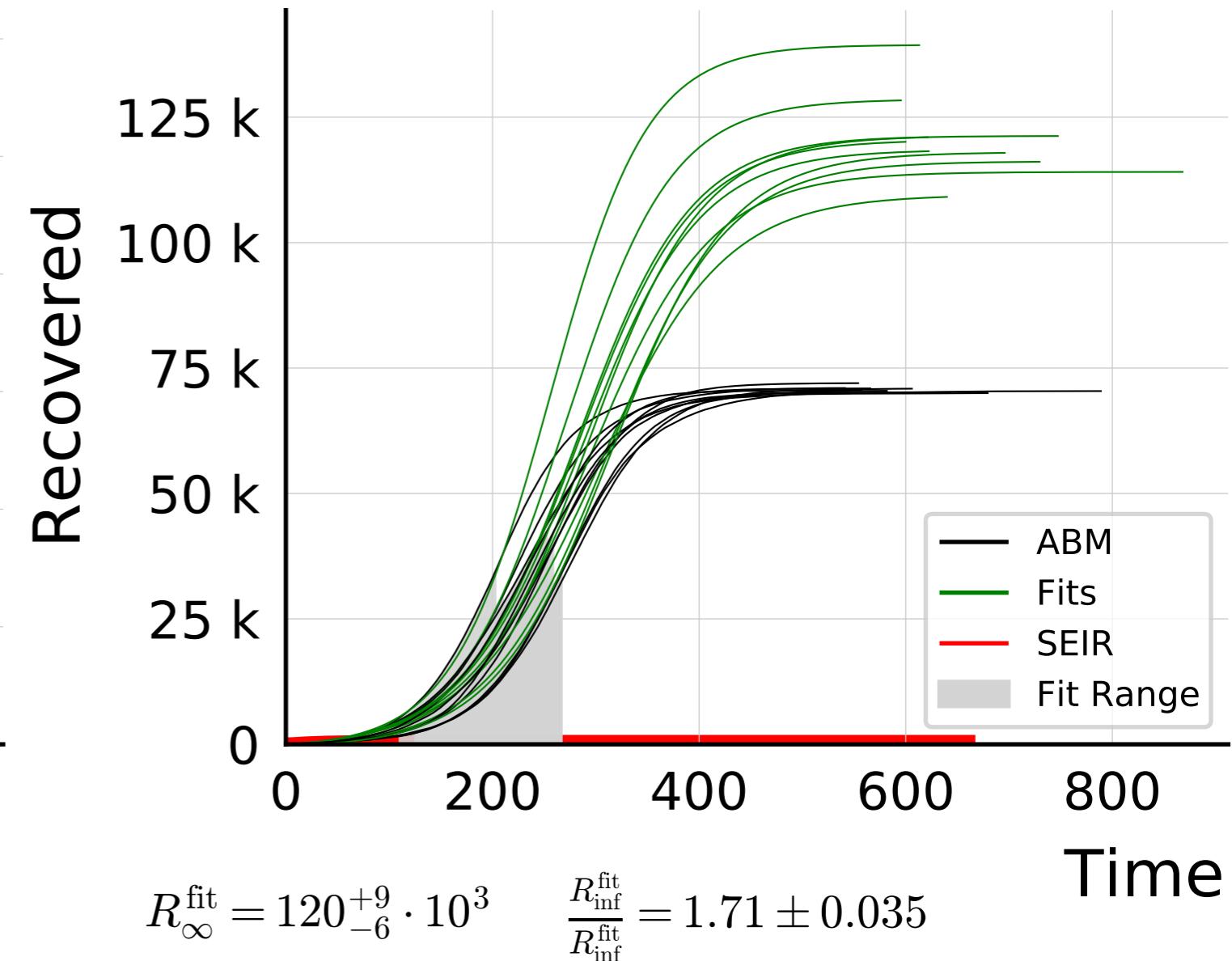
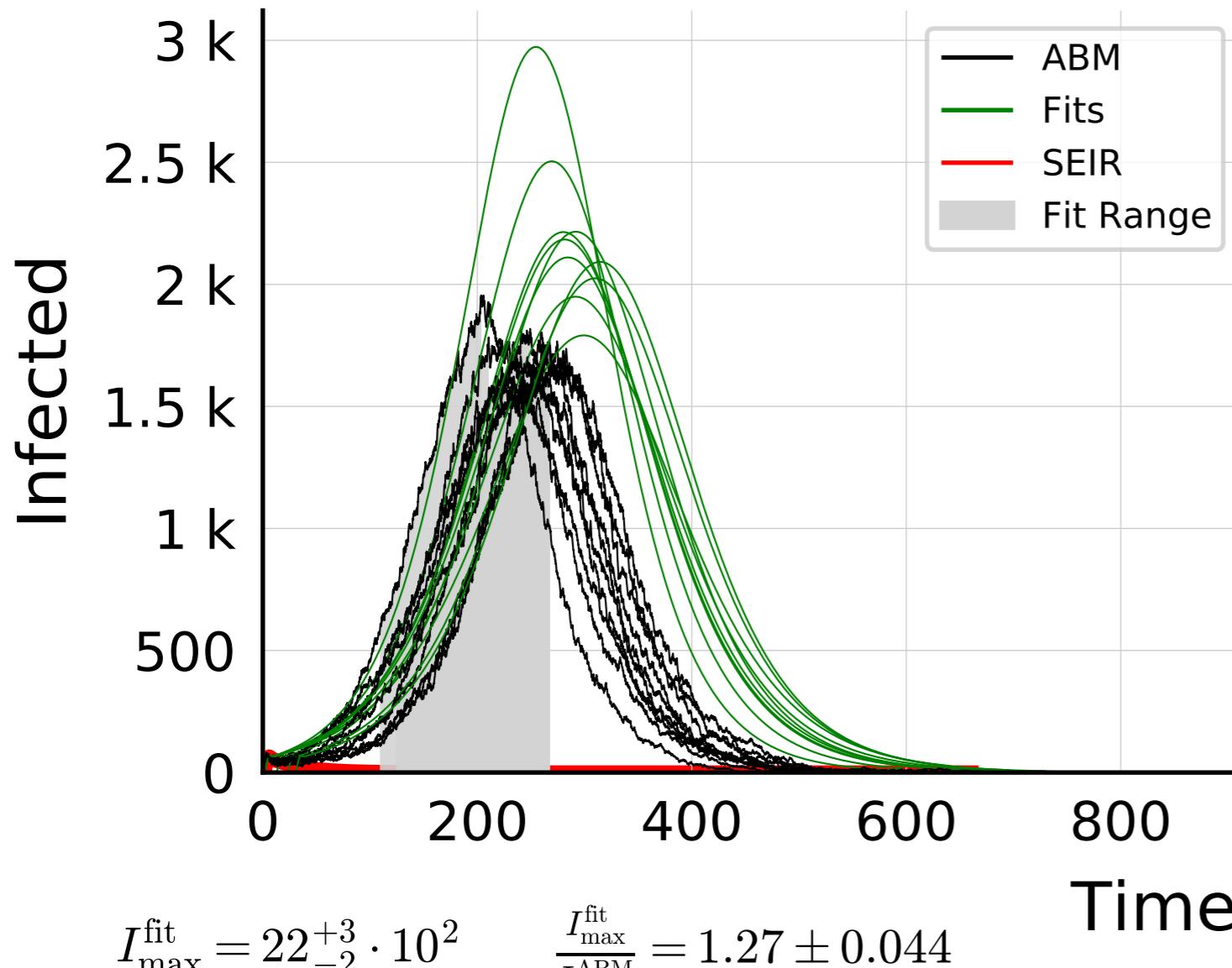
$$R_{\infty}^{\text{fit}} = 426^{+6}_{-5} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.215 \pm 0.0081$$

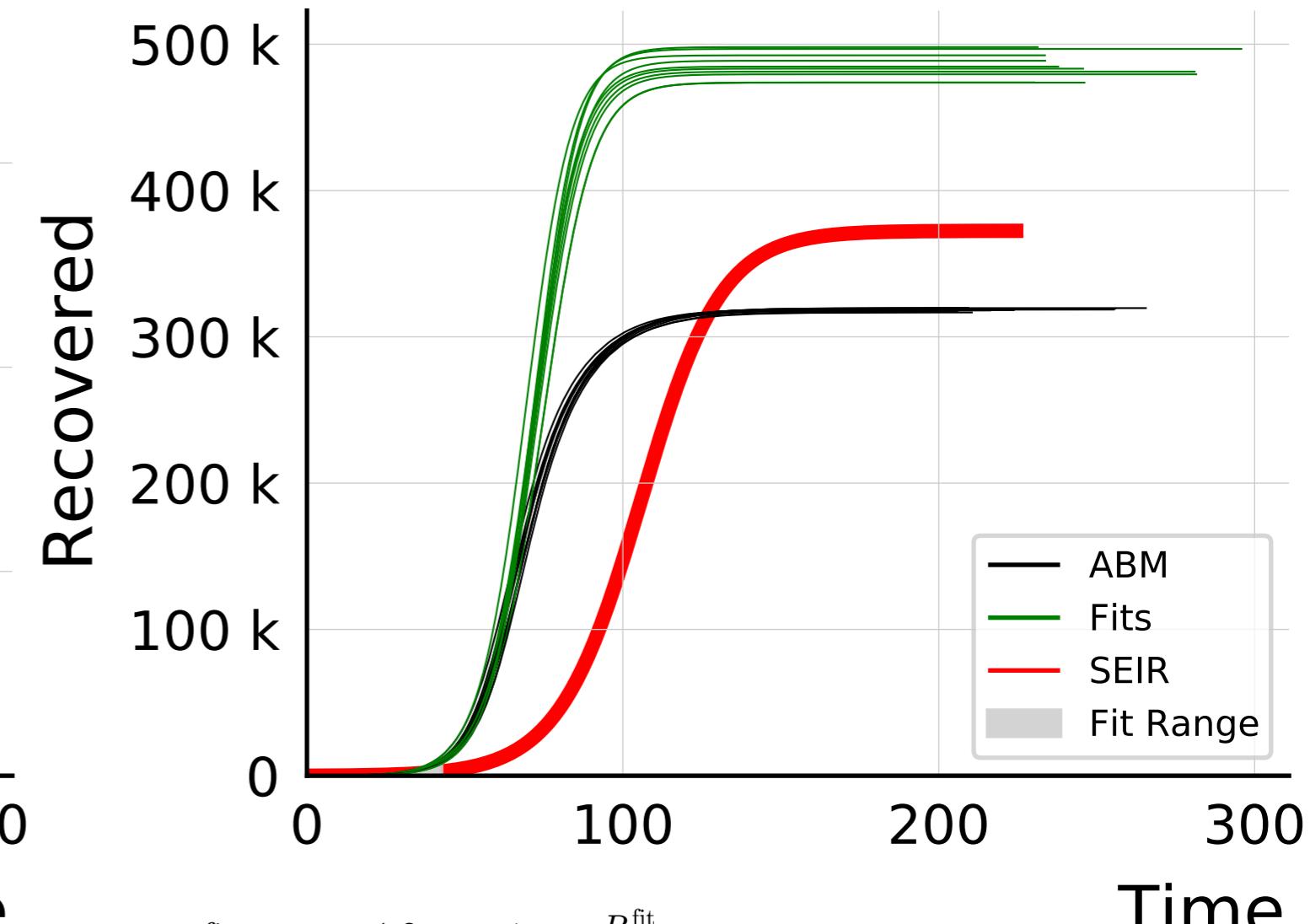
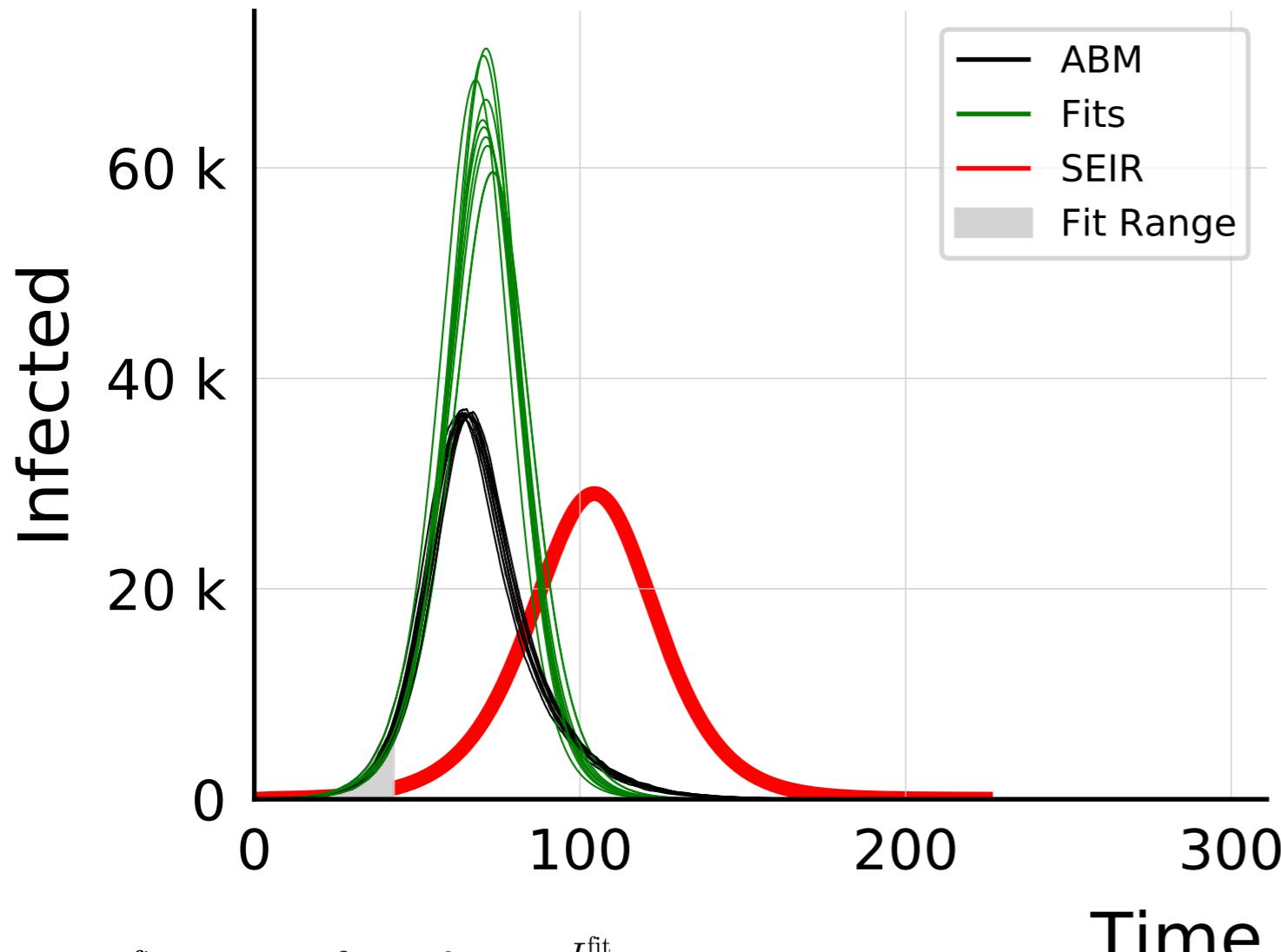
$N_{\text{tot}} = 580K$, $\rho = 0.01$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



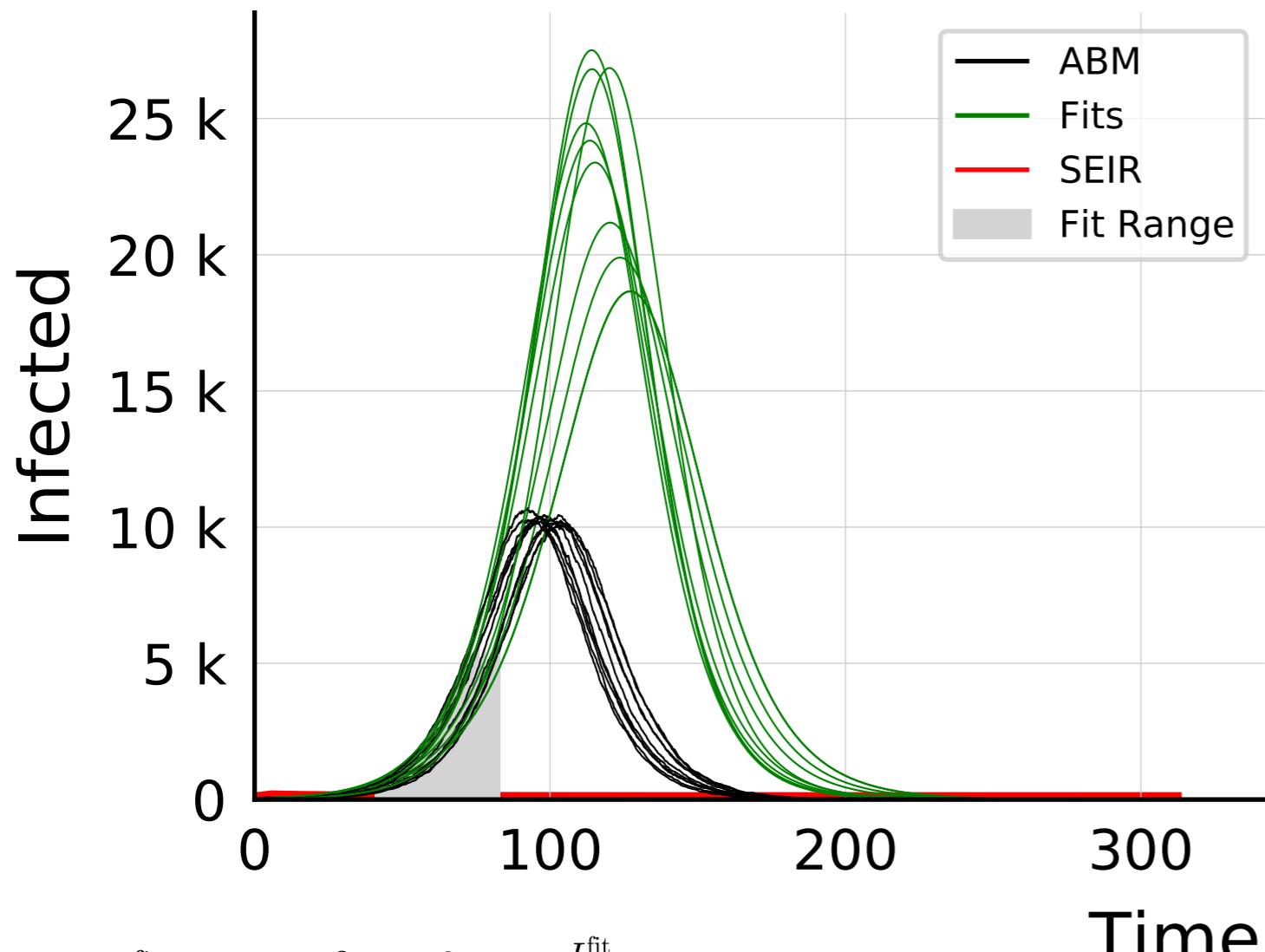
$N_{\text{tot}} = 580K$, $\rho = 0.025$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.025$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

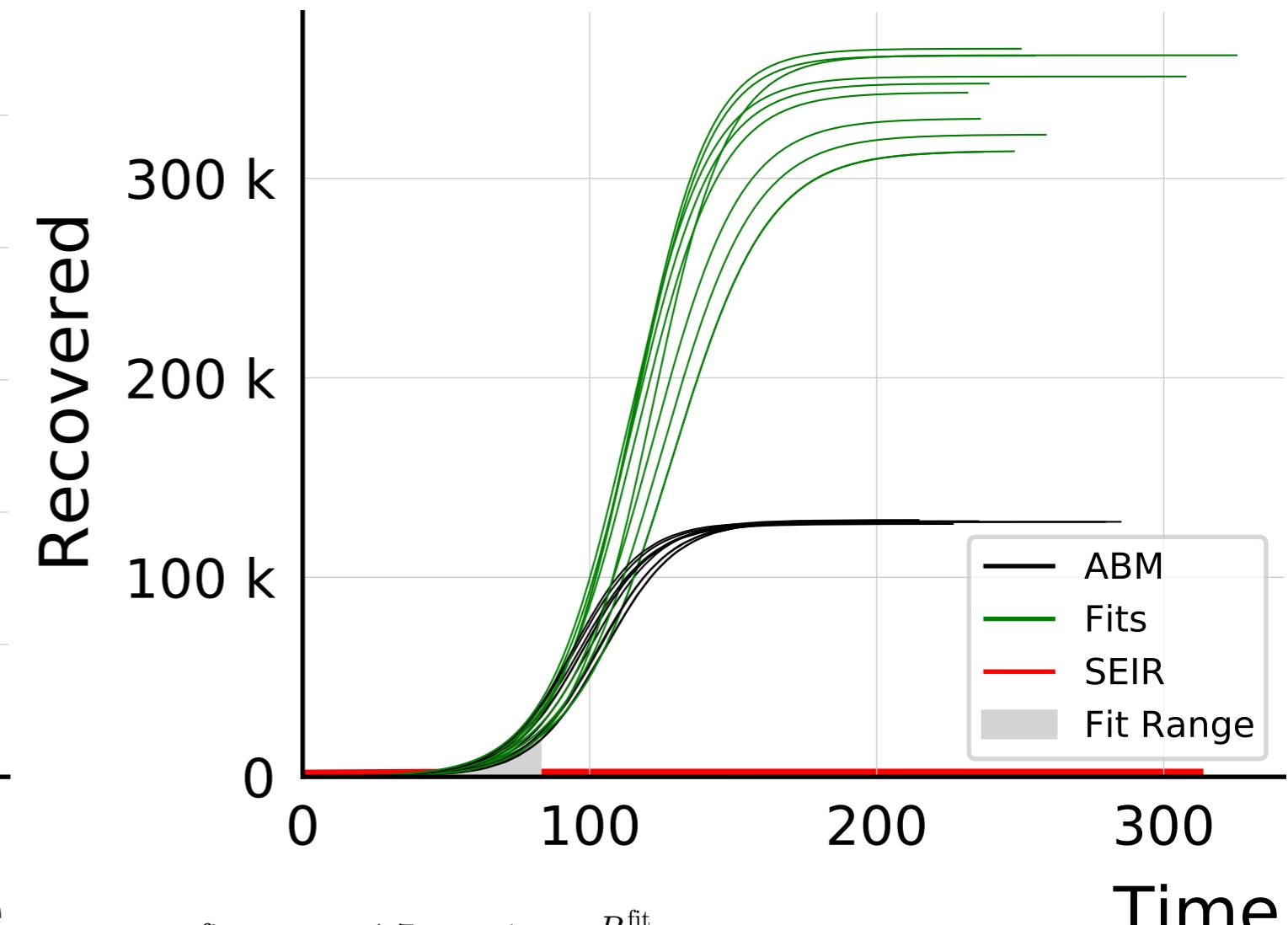


$N_{\text{tot}} = 580K$, $\rho = 0.05$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 24^{+3}_{-5} \cdot 10^3$$

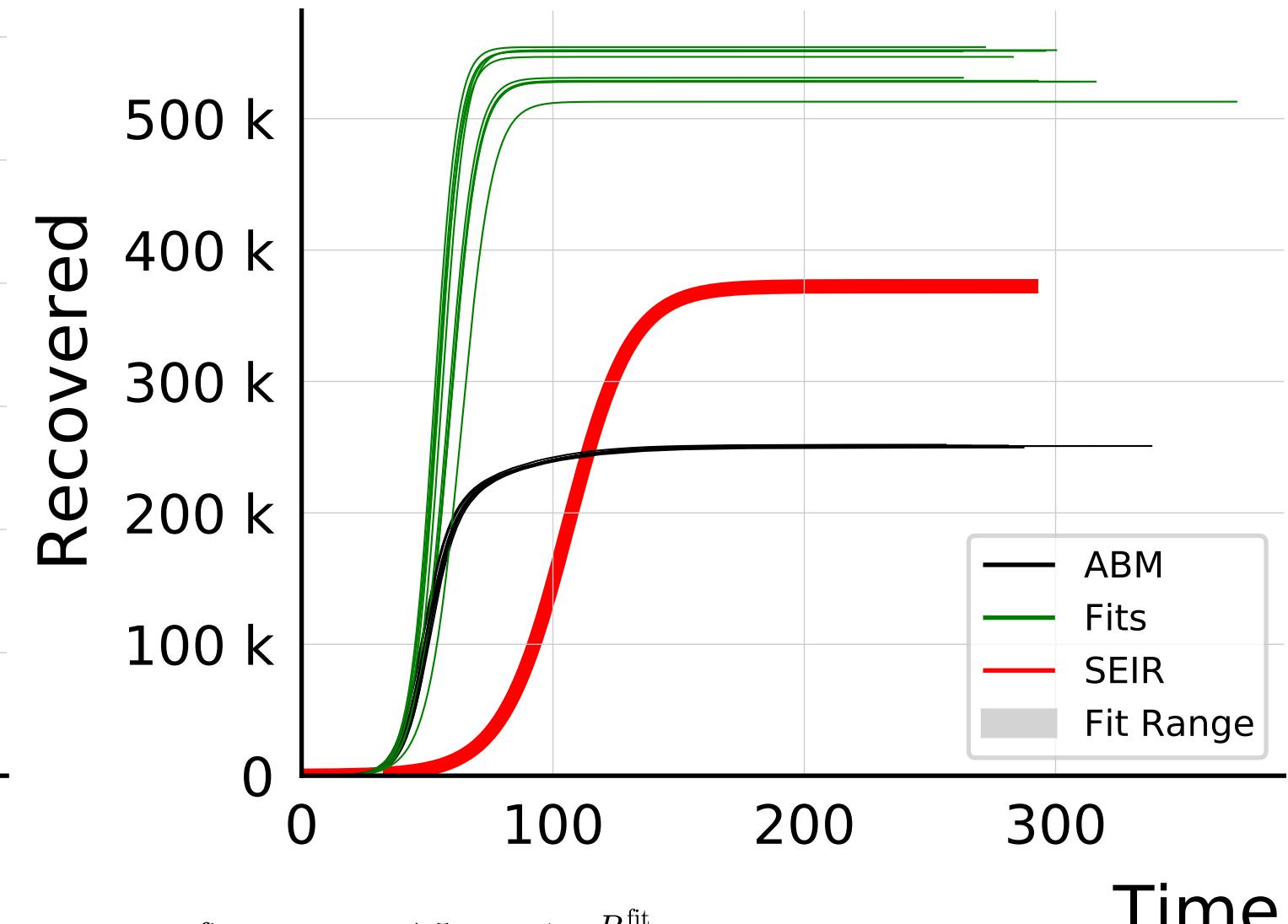
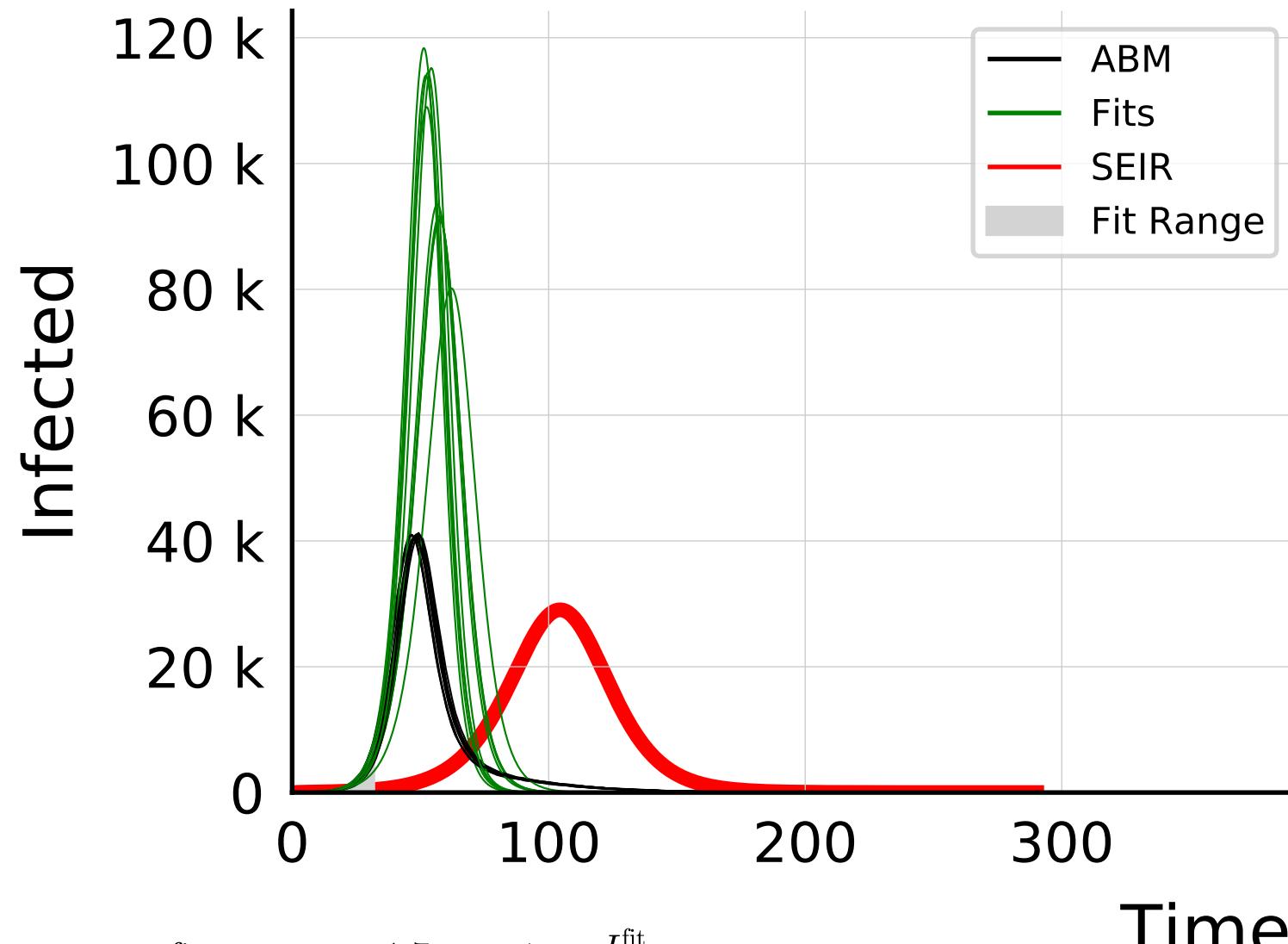
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{max}}} = 2.24 \pm 0.094$$



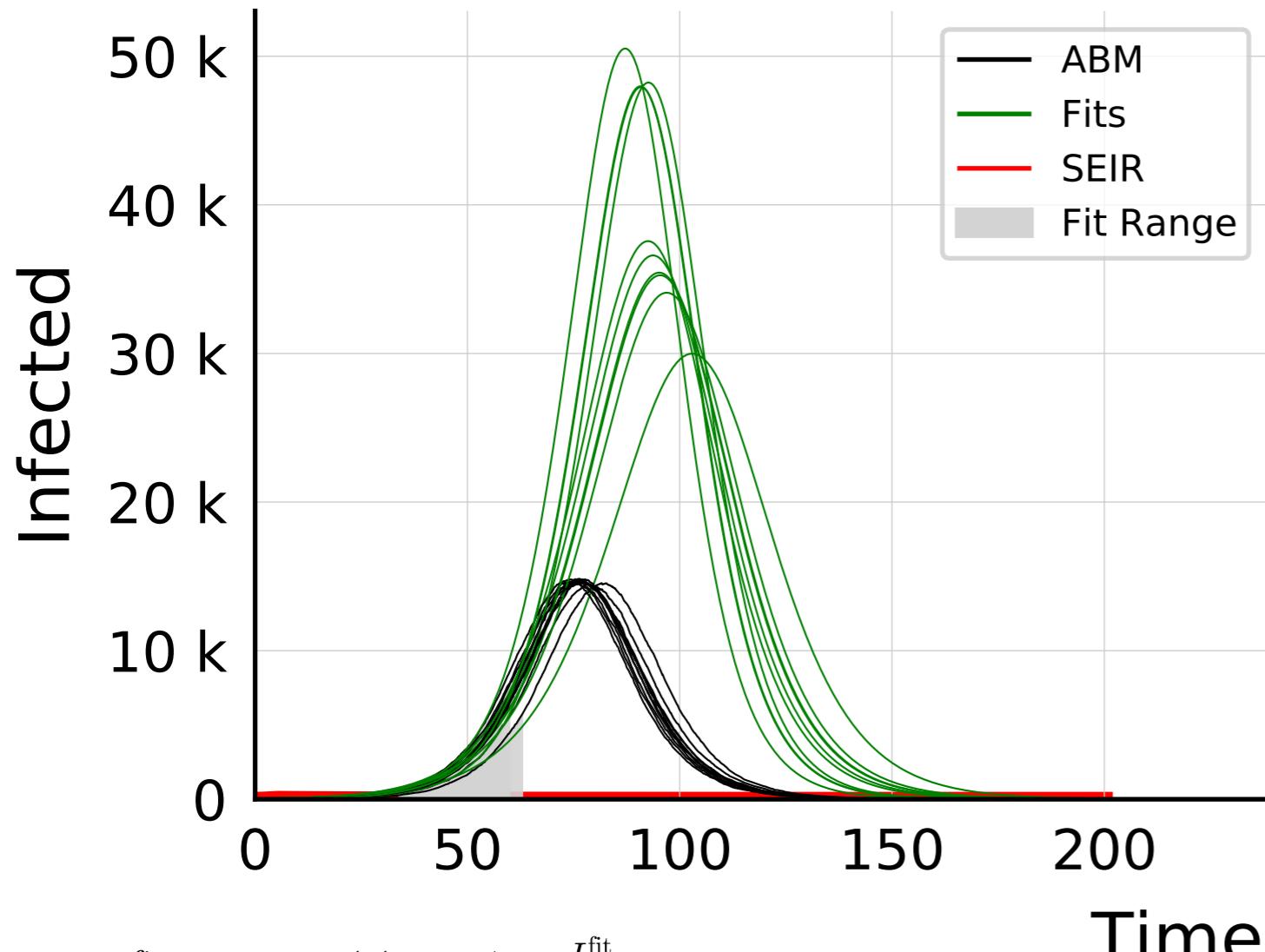
$$R_{\infty}^{\text{fit}} = 34^{+1.7}_{-3} \cdot 10^4$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 2.67 \pm 0.048$$

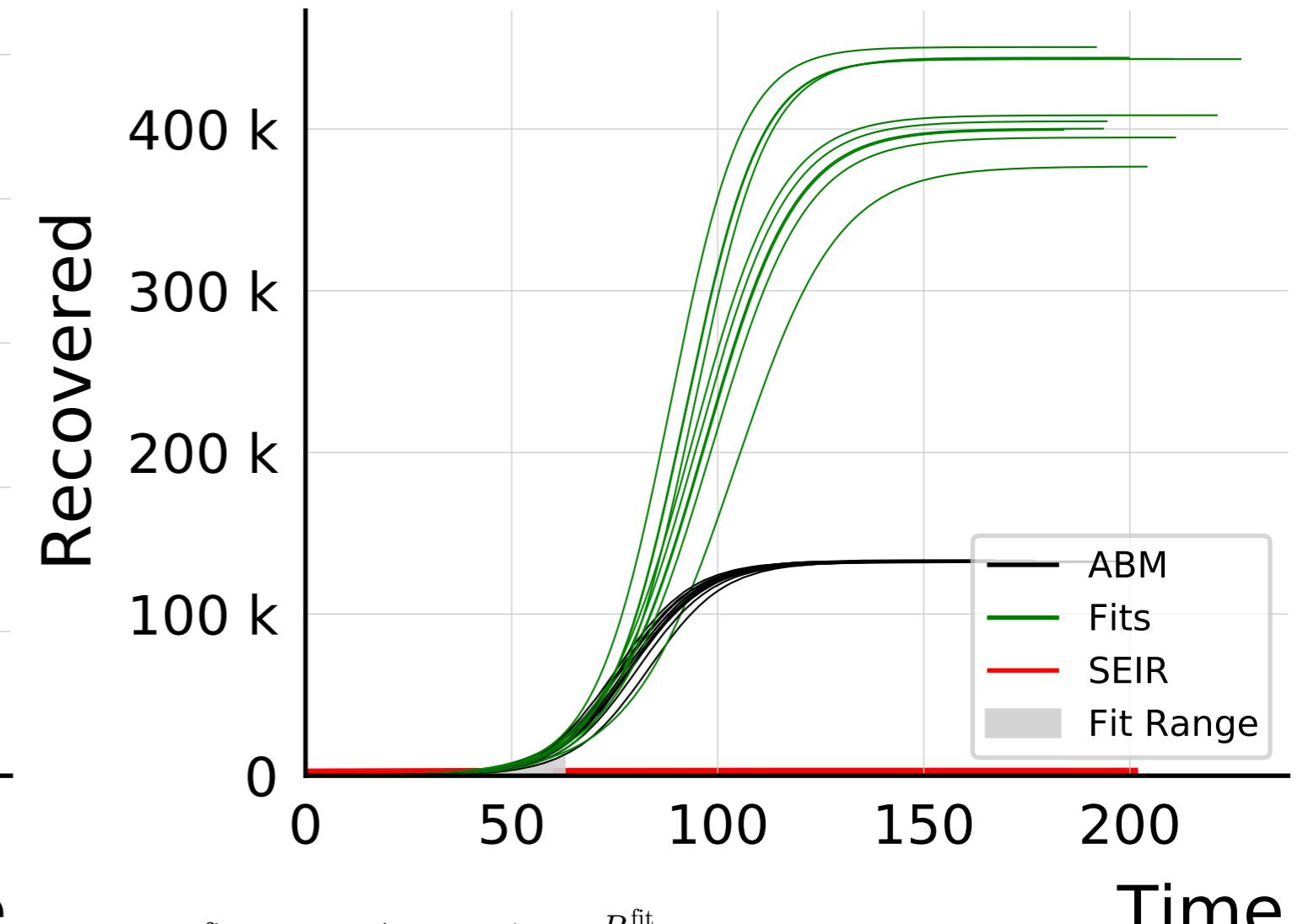
$N_{\text{tot}} = 580K$, $\rho = 0.05$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.075$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

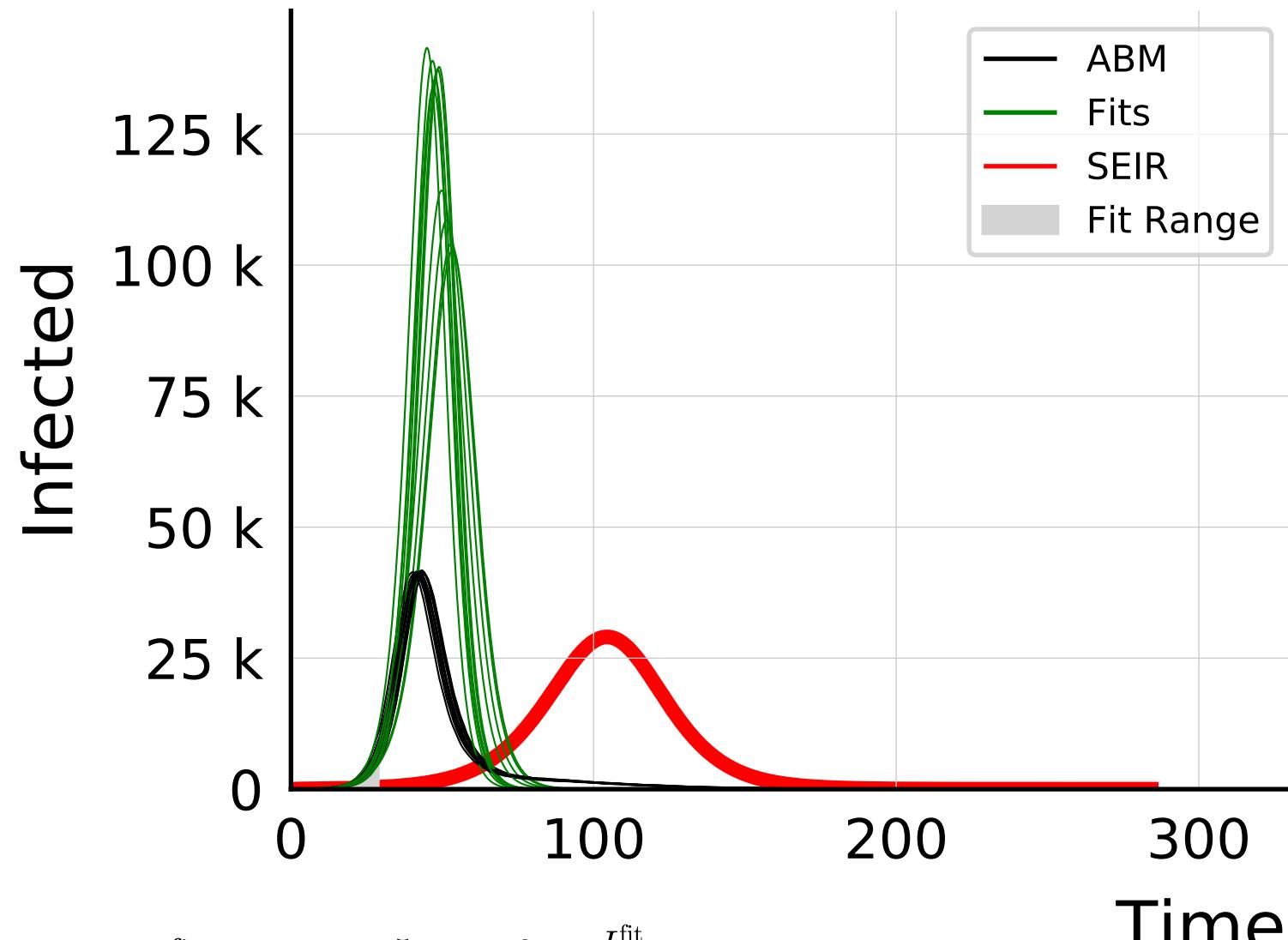


$$I_{\max}^{\text{fit}} = 3.7_{-0.3}^{+1.1} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.7 \pm 0.15$$

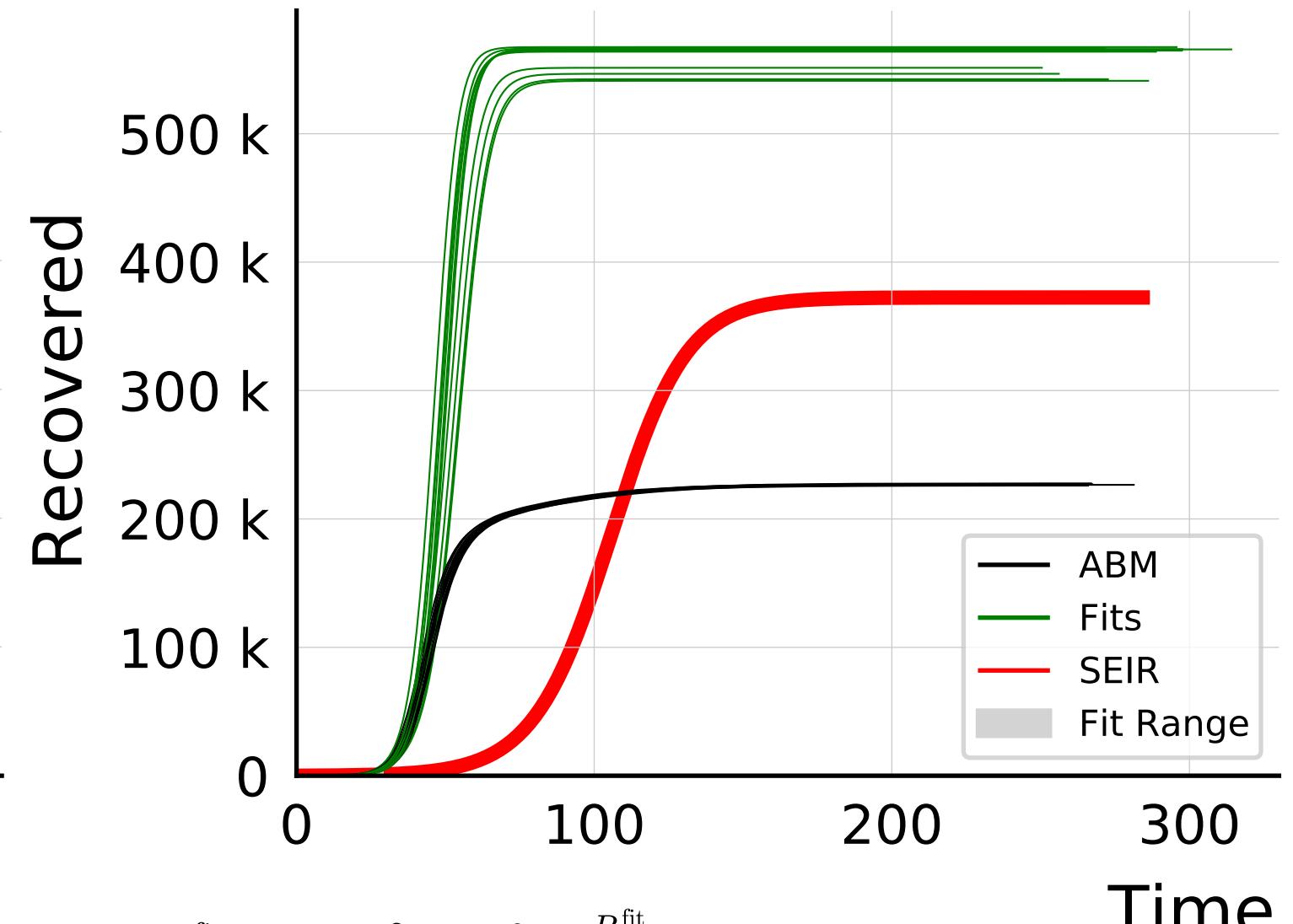


$$R_{\infty}^{\text{fit}} = 41_{-1.2}^{+4} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.14 \pm 0.059$$

$N_{\text{tot}} = 580K$, $\rho = 0.075$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

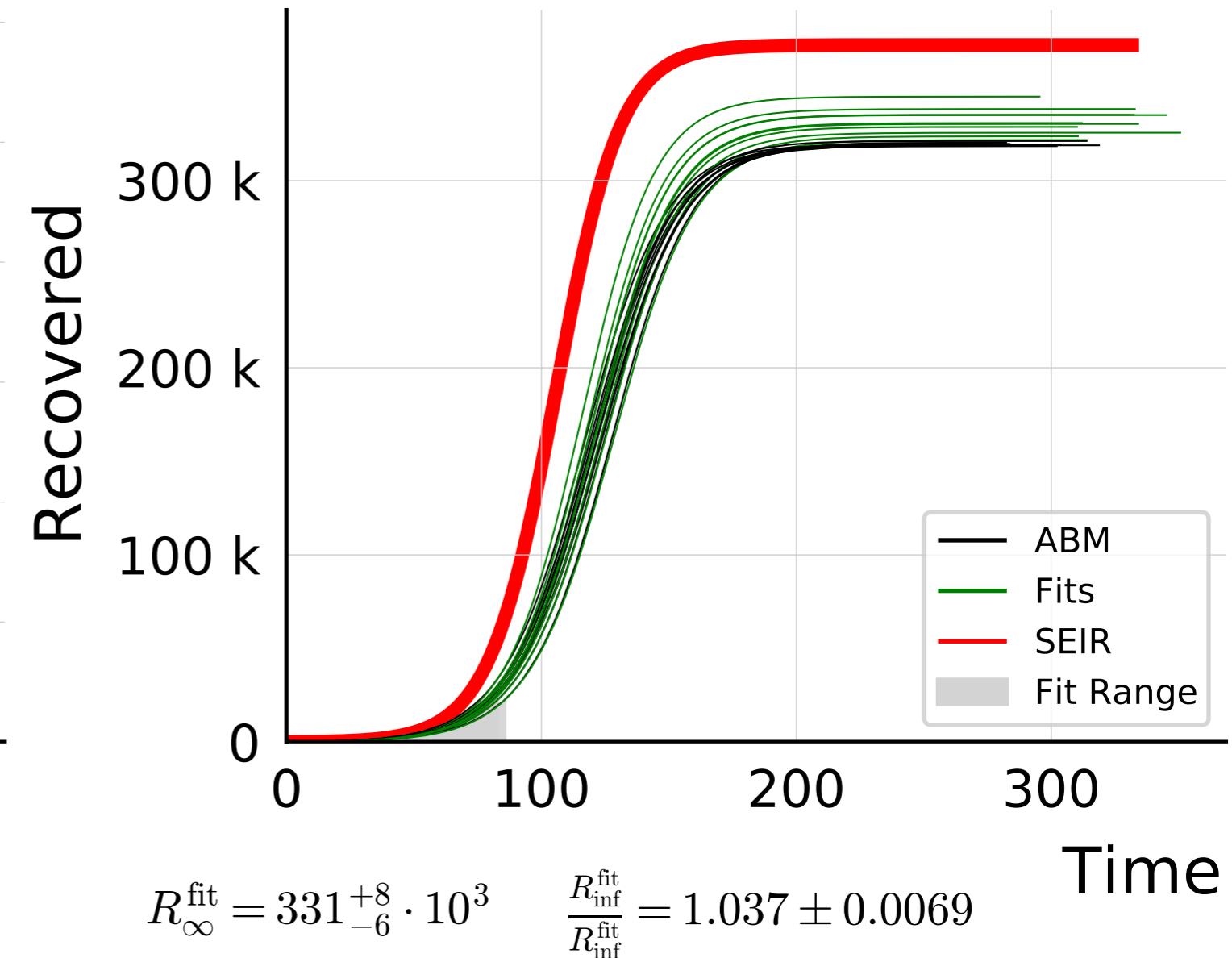
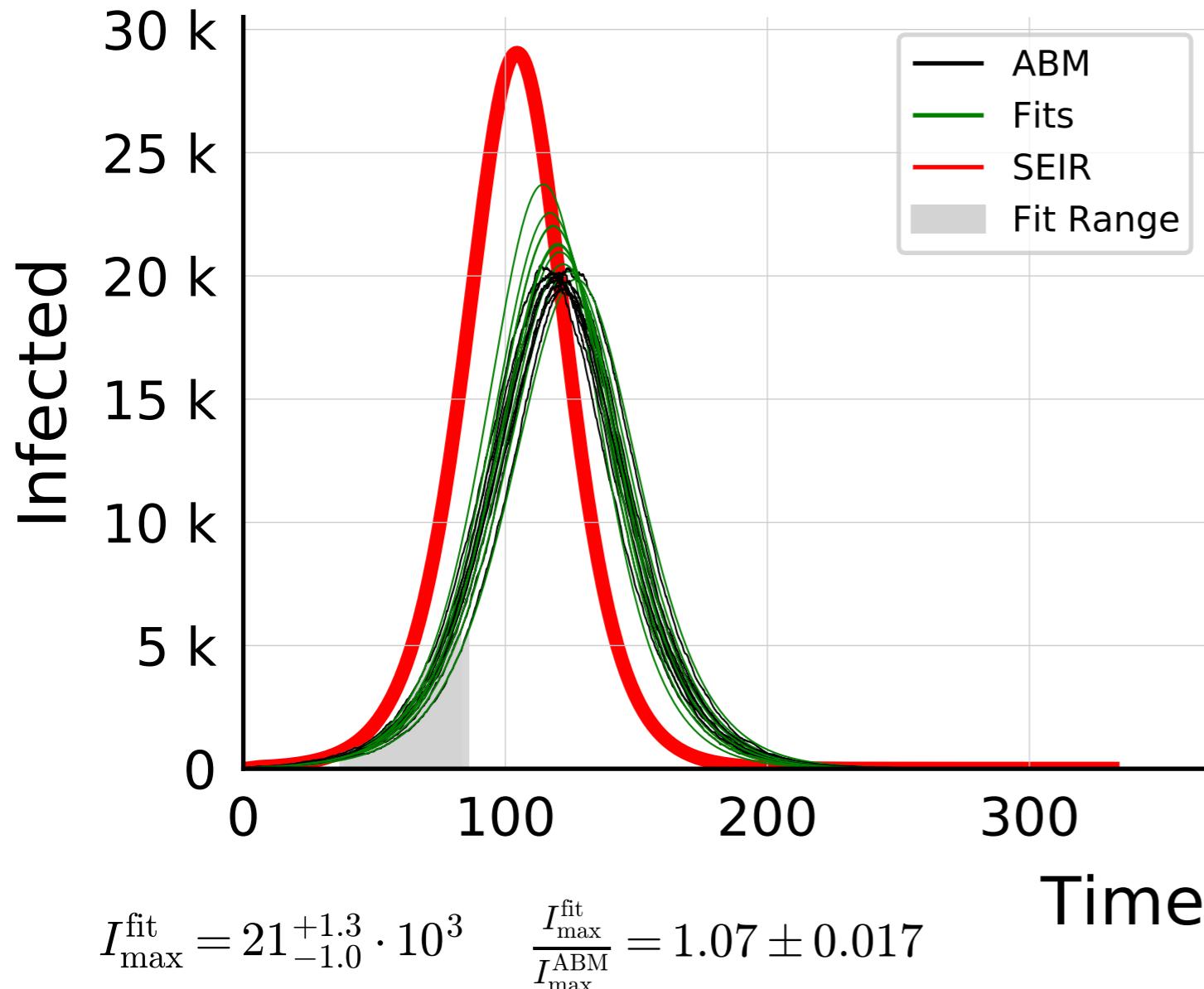


$$I_{\max}^{\text{fit}} = 134_{-30}^{+5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3 \pm 0.11$$

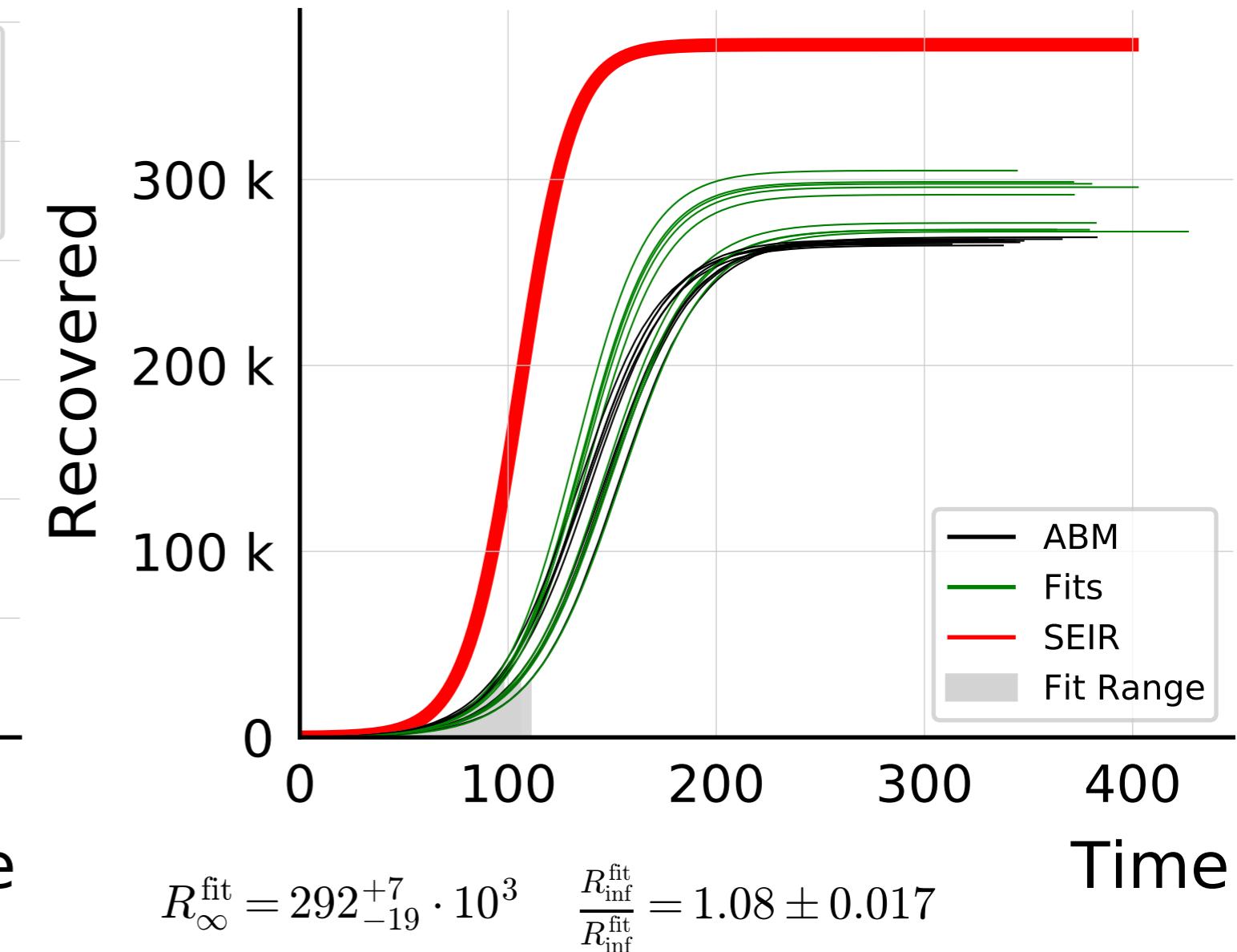
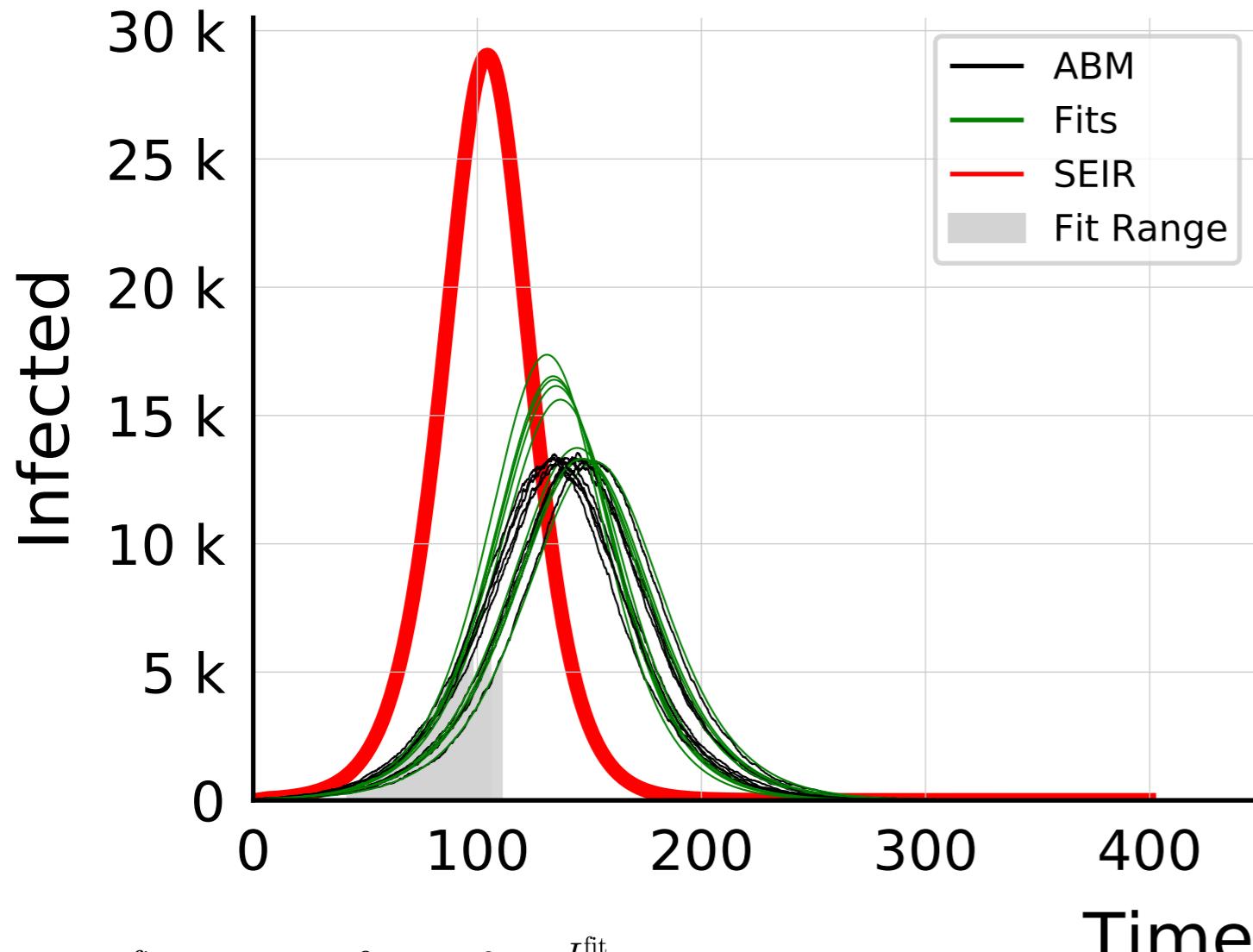


$$R_{\infty}^{\text{fit}} = 564_{-20}^{+2} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.46 \pm 0.015$$

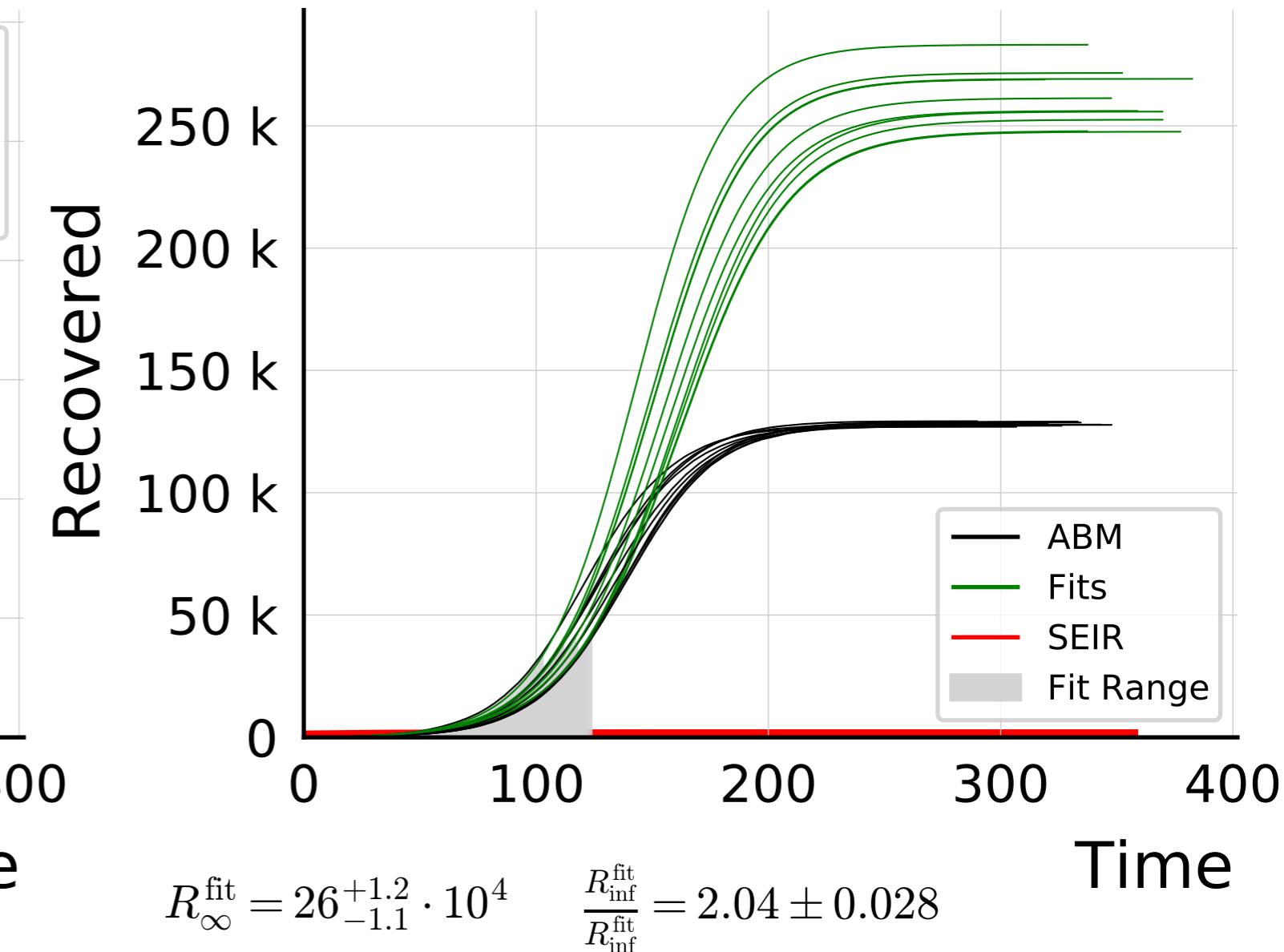
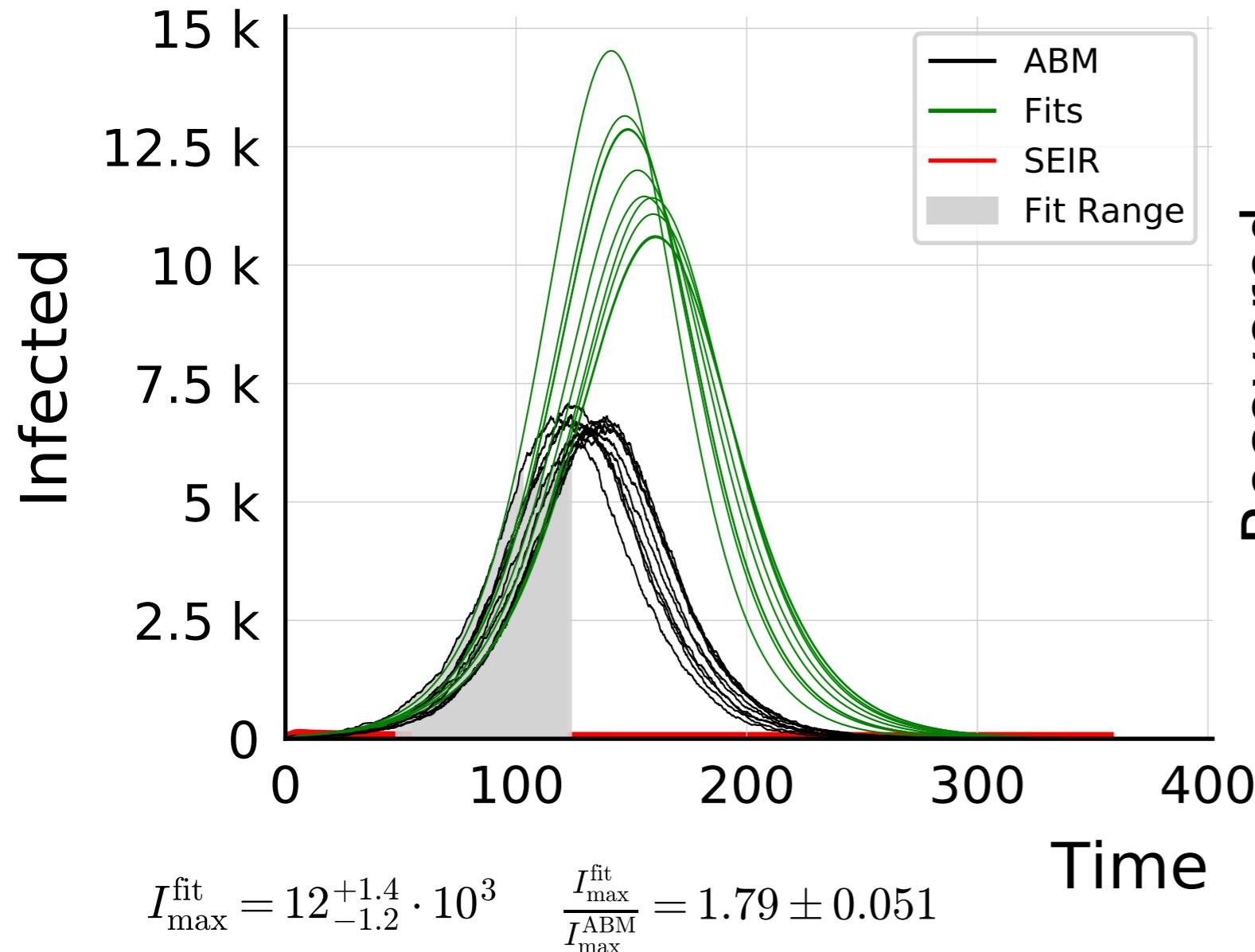
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



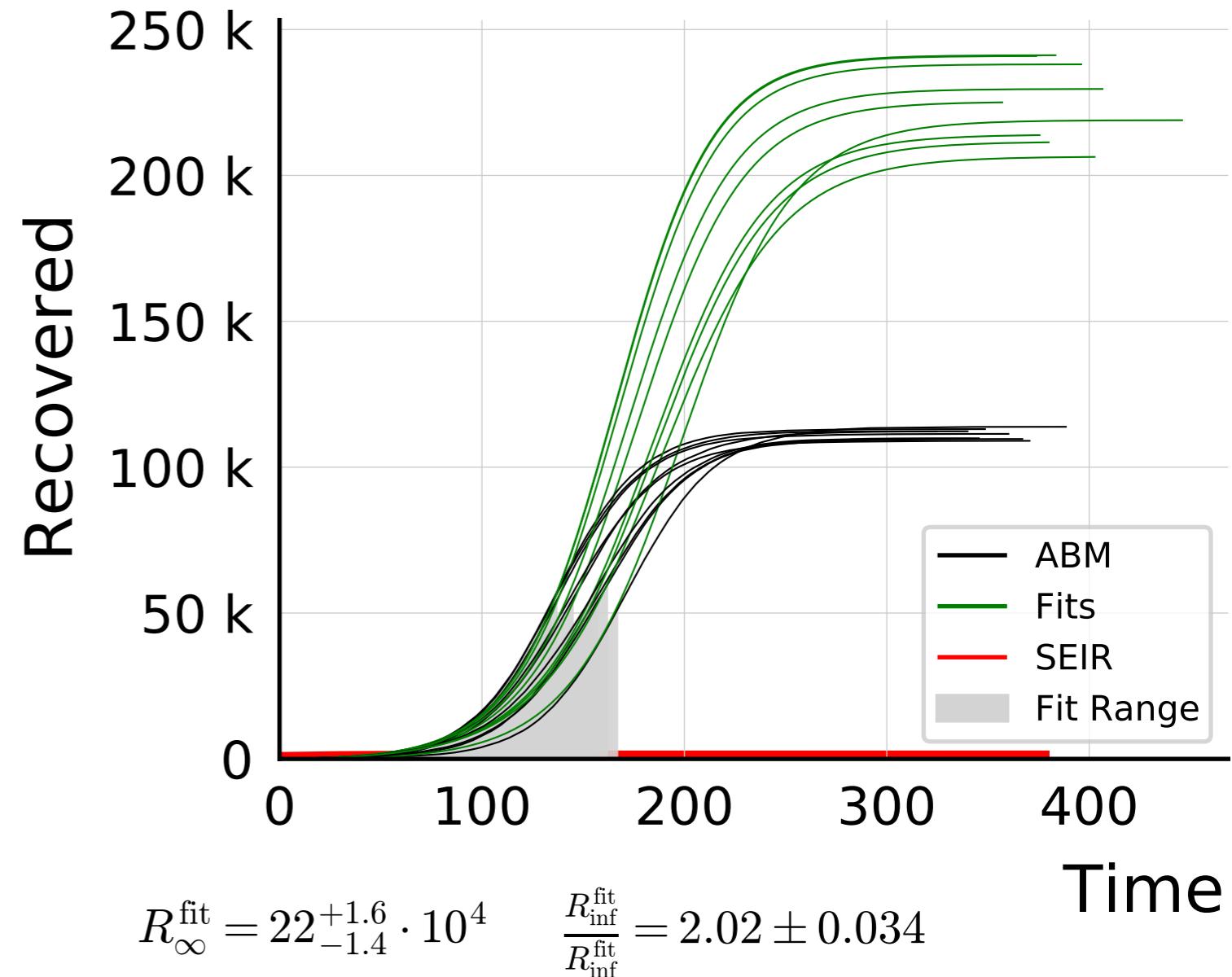
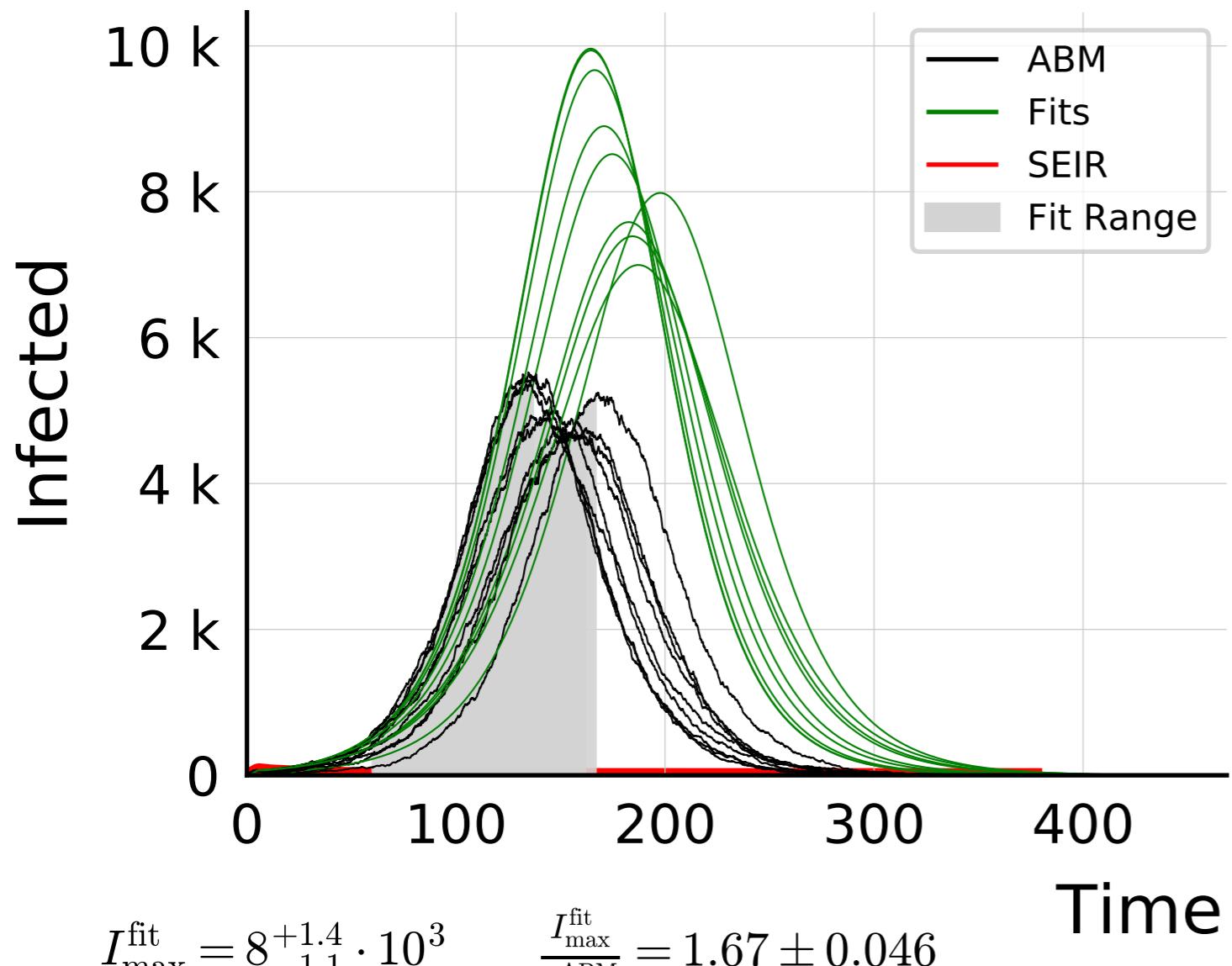
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #9



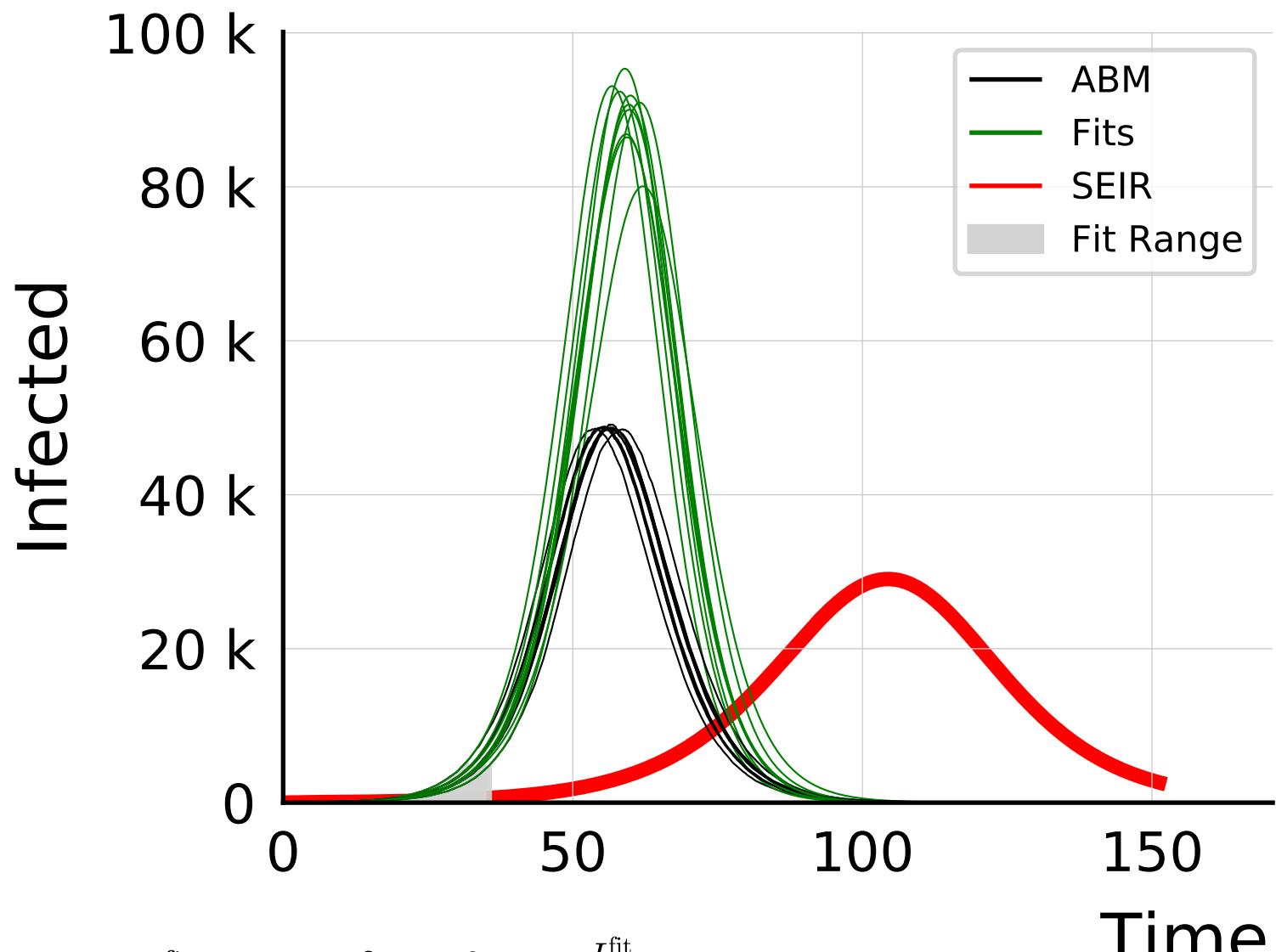
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #9

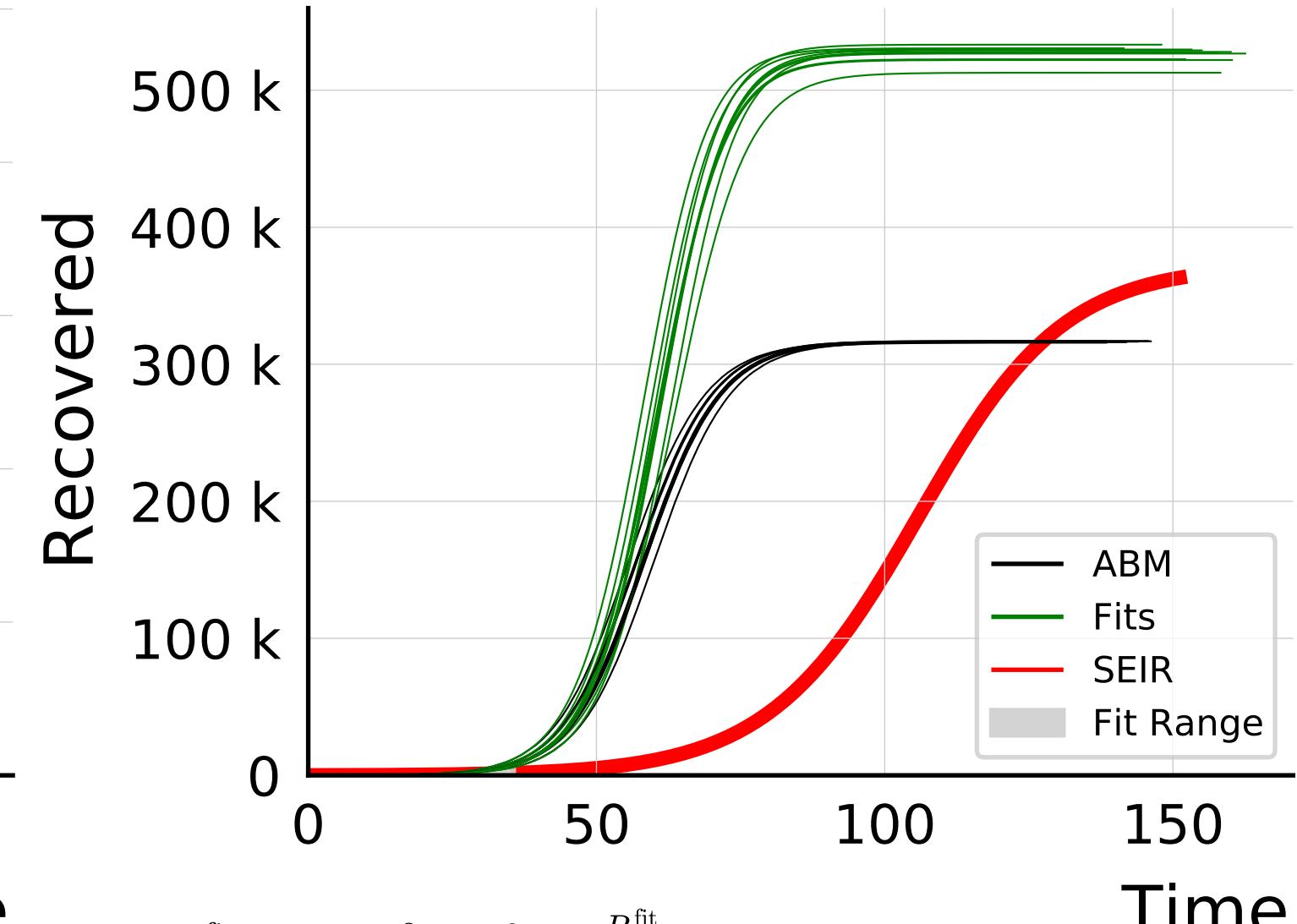


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 91^{+2}_{-4} \cdot 10^3$$

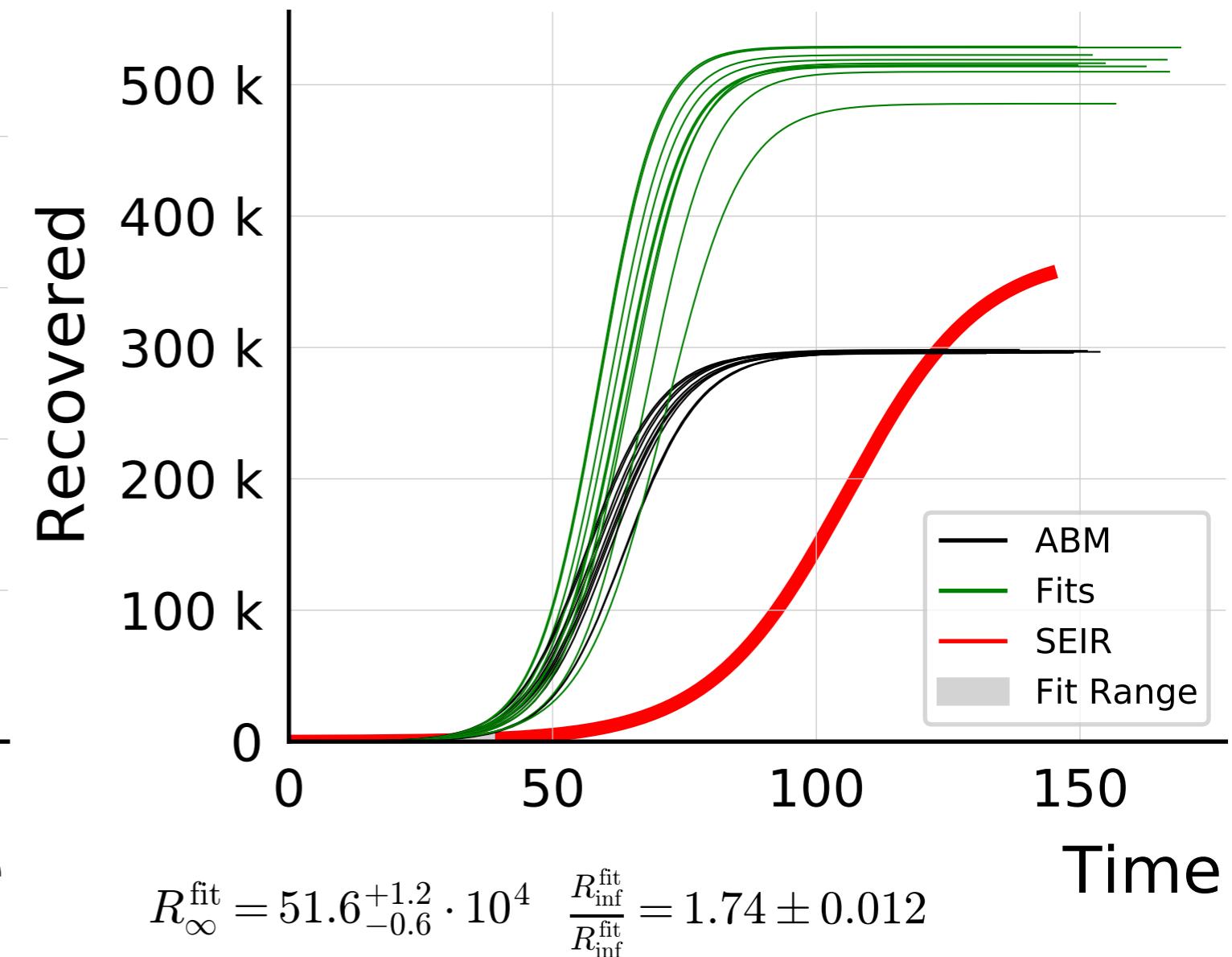
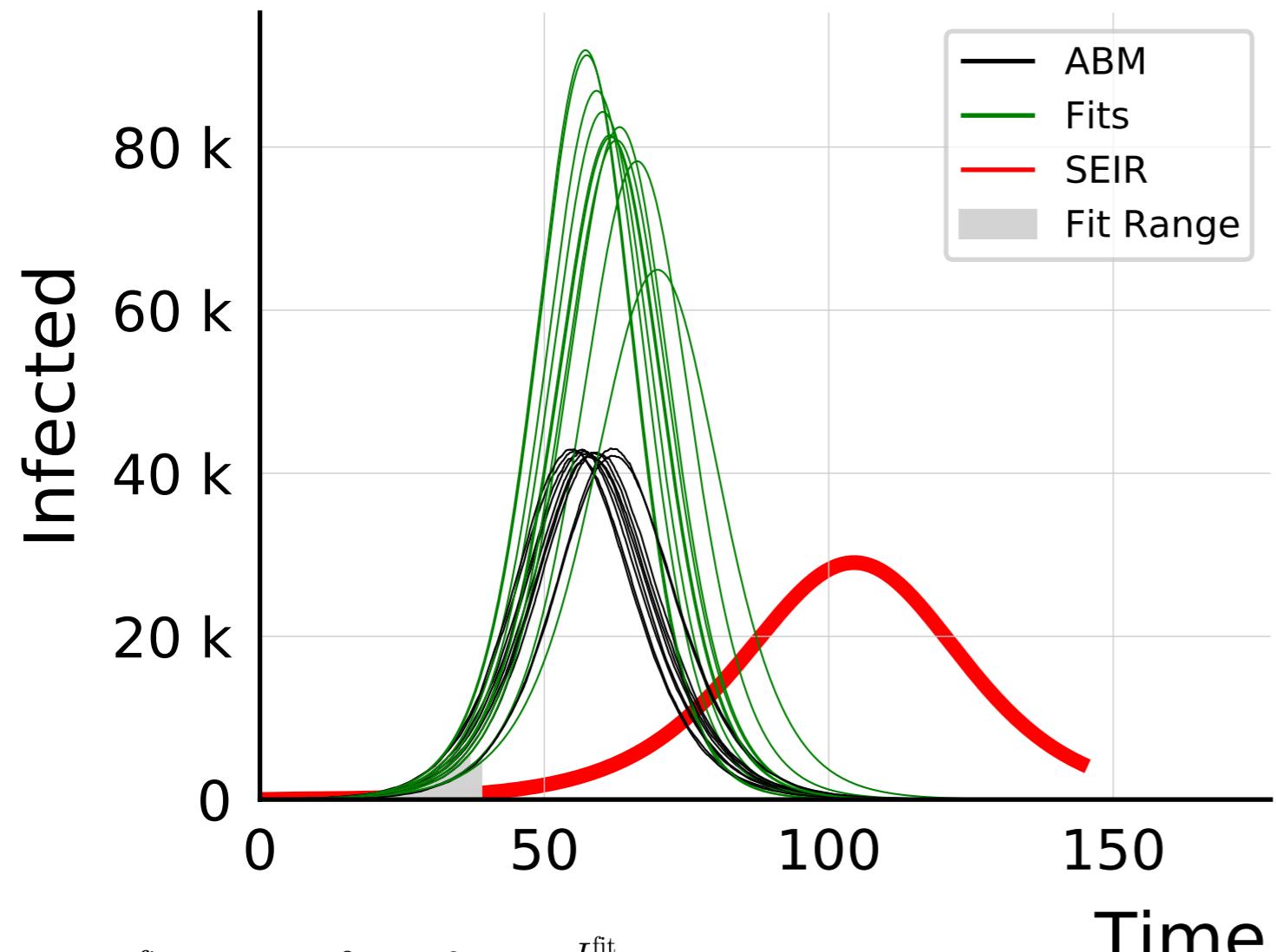
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.84 \pm 0.026$$



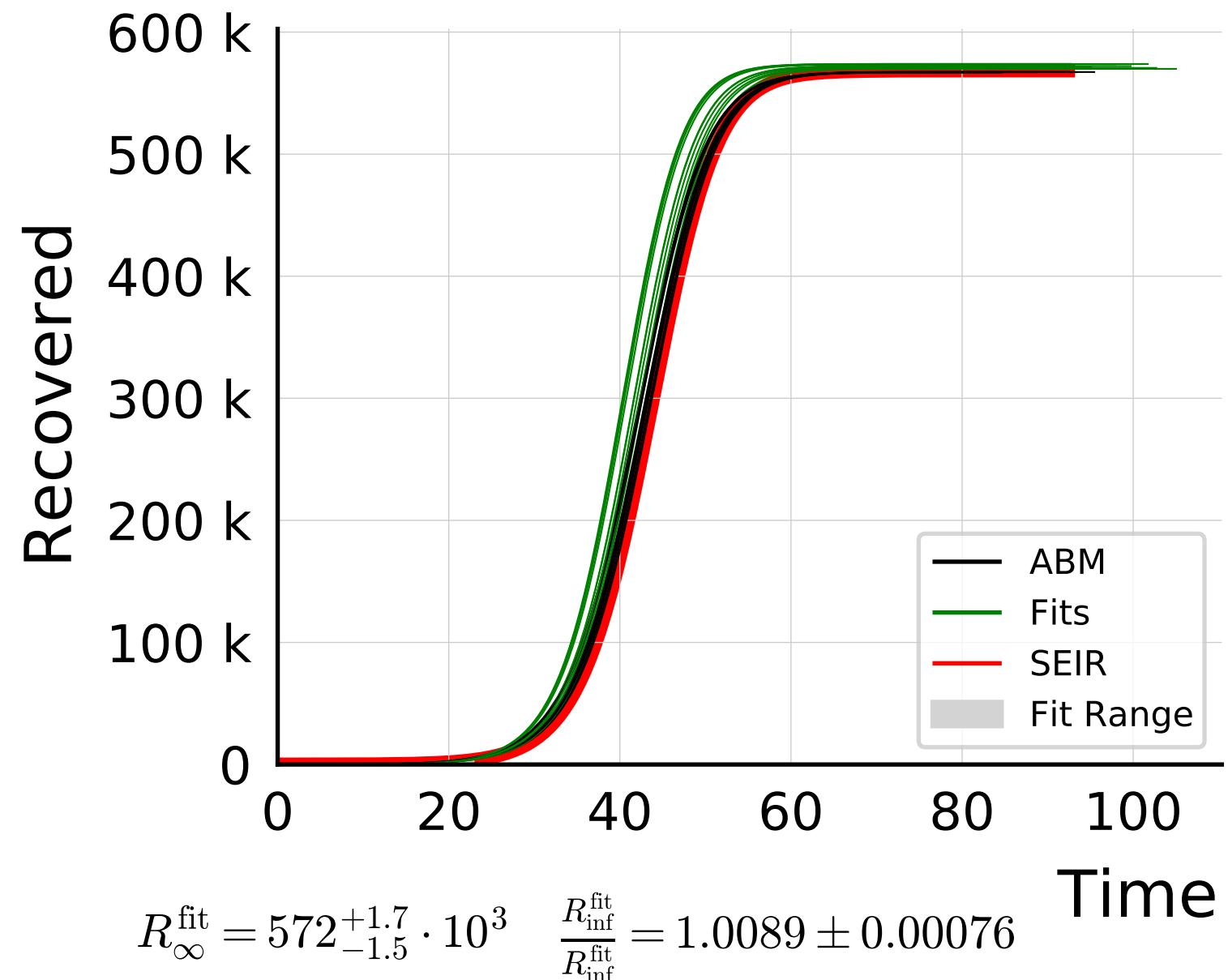
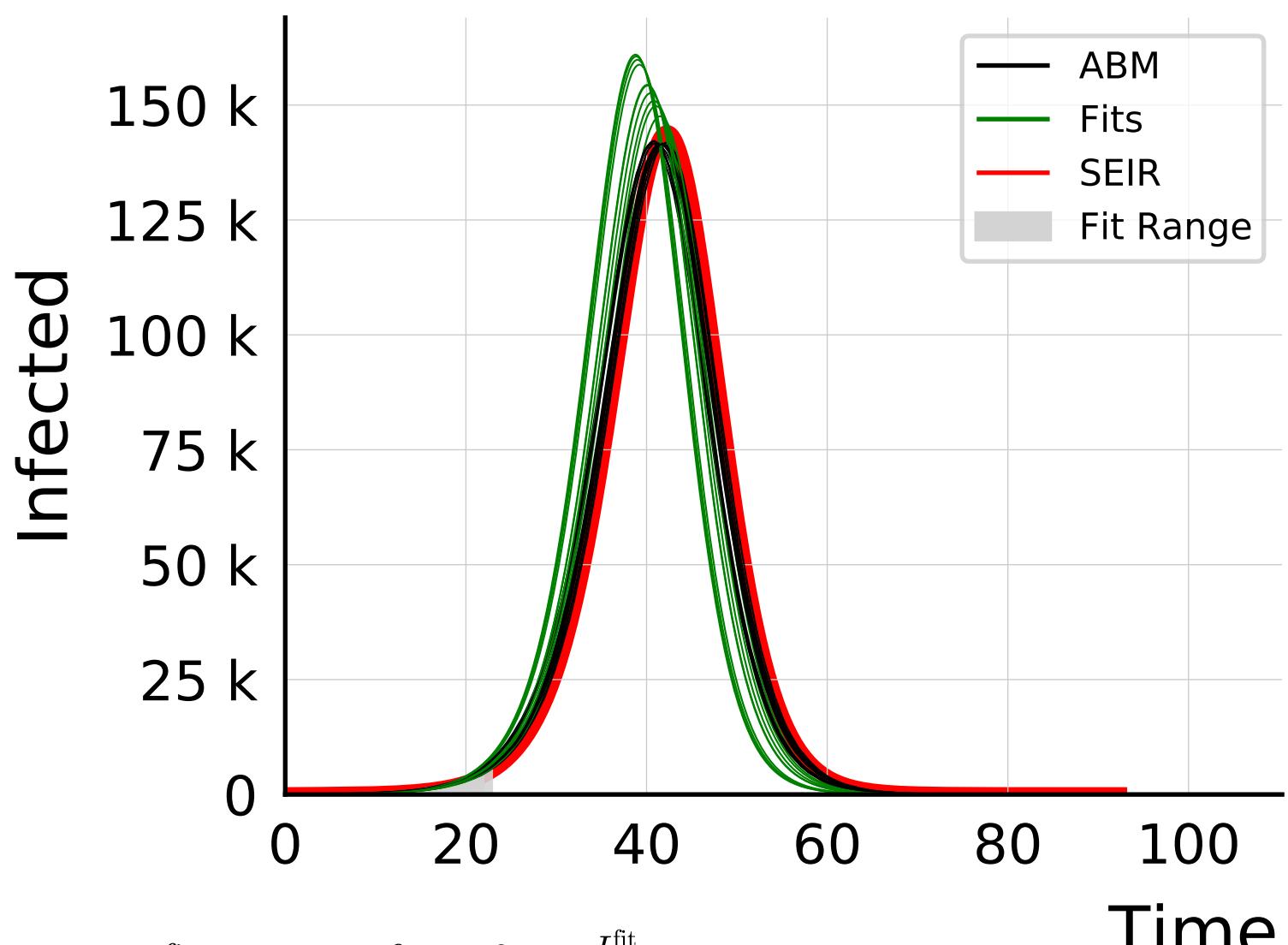
$$R_{\infty}^{\text{fit}} = 528^{+3}_{-6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.663 \pm 0.0058$$

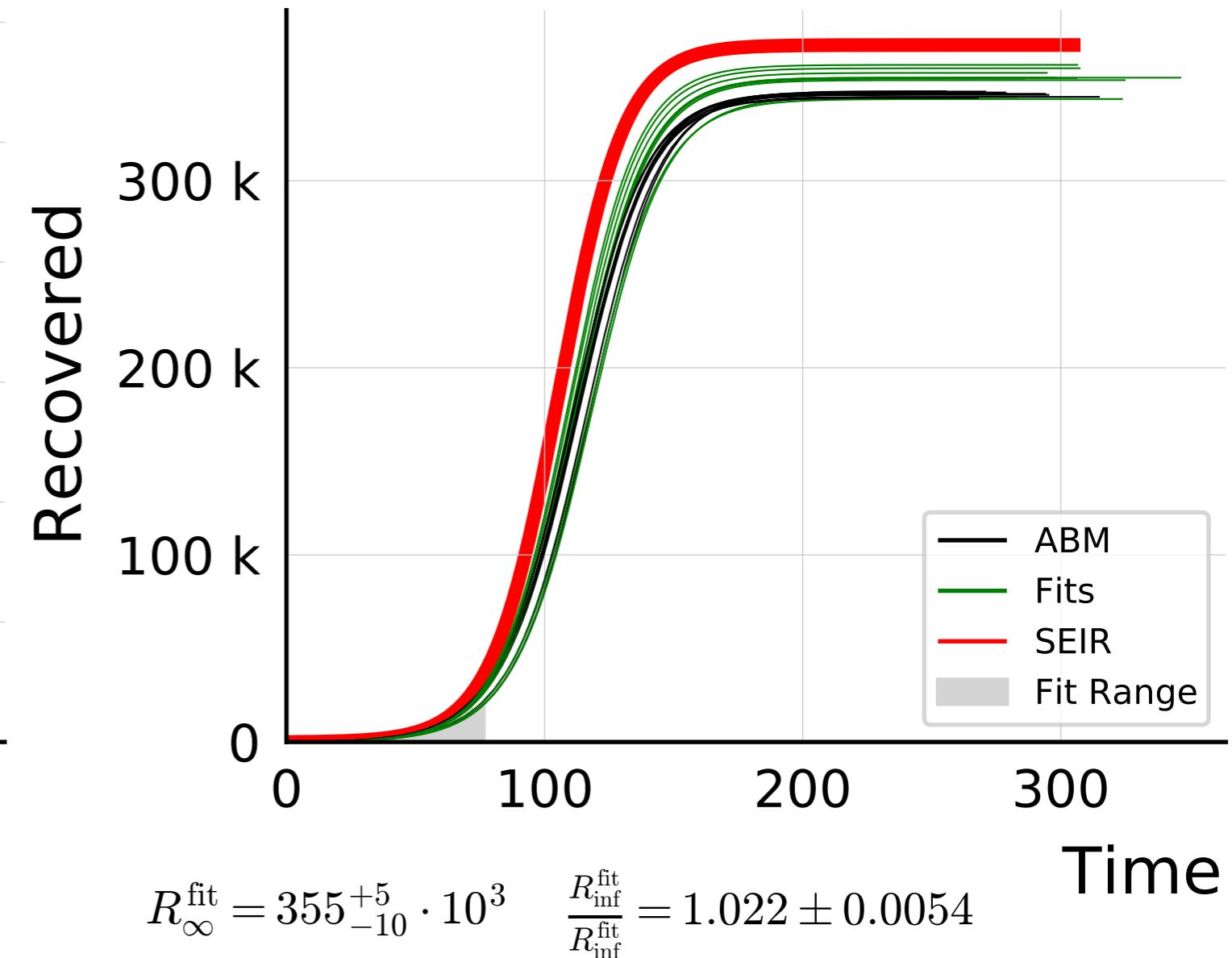
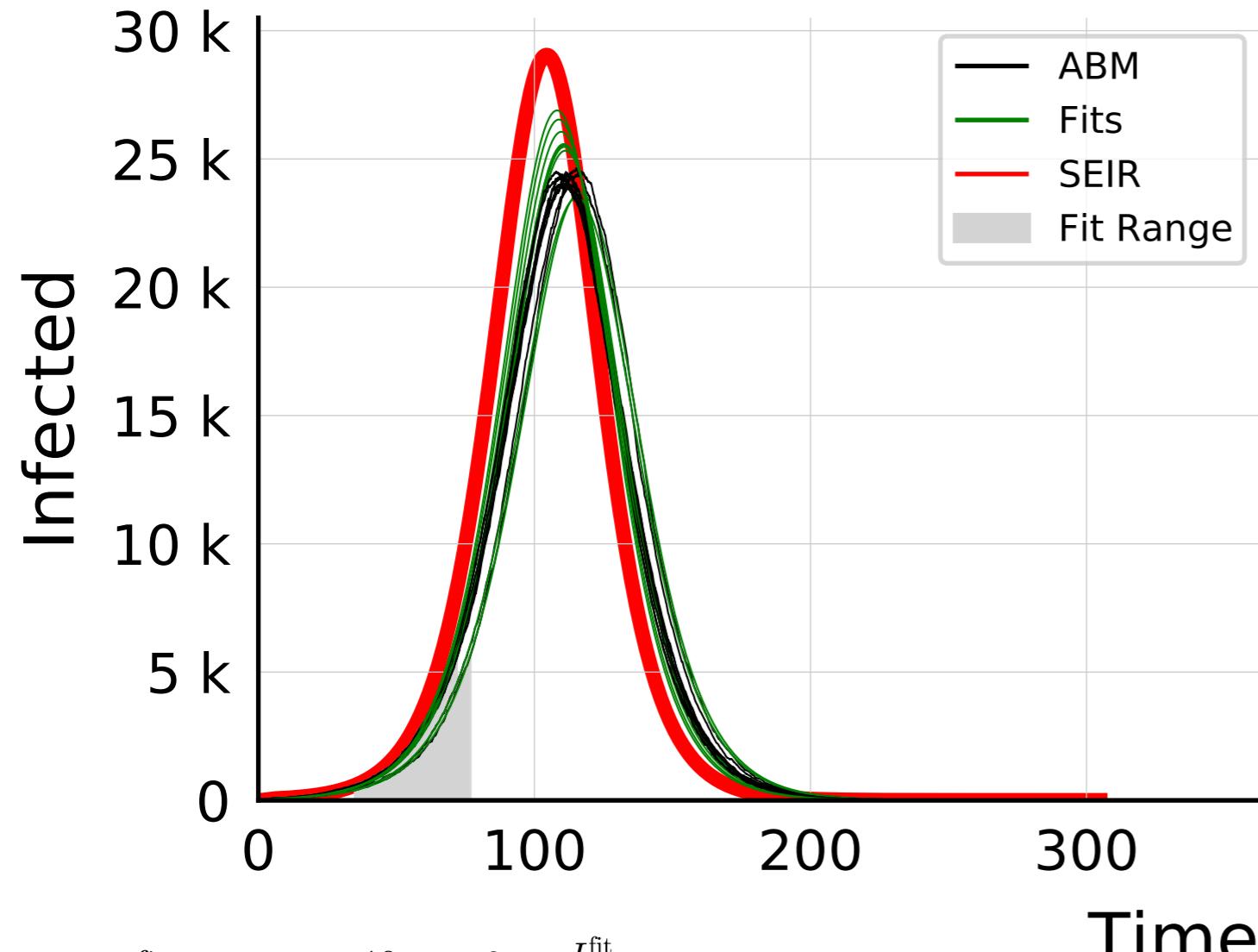
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



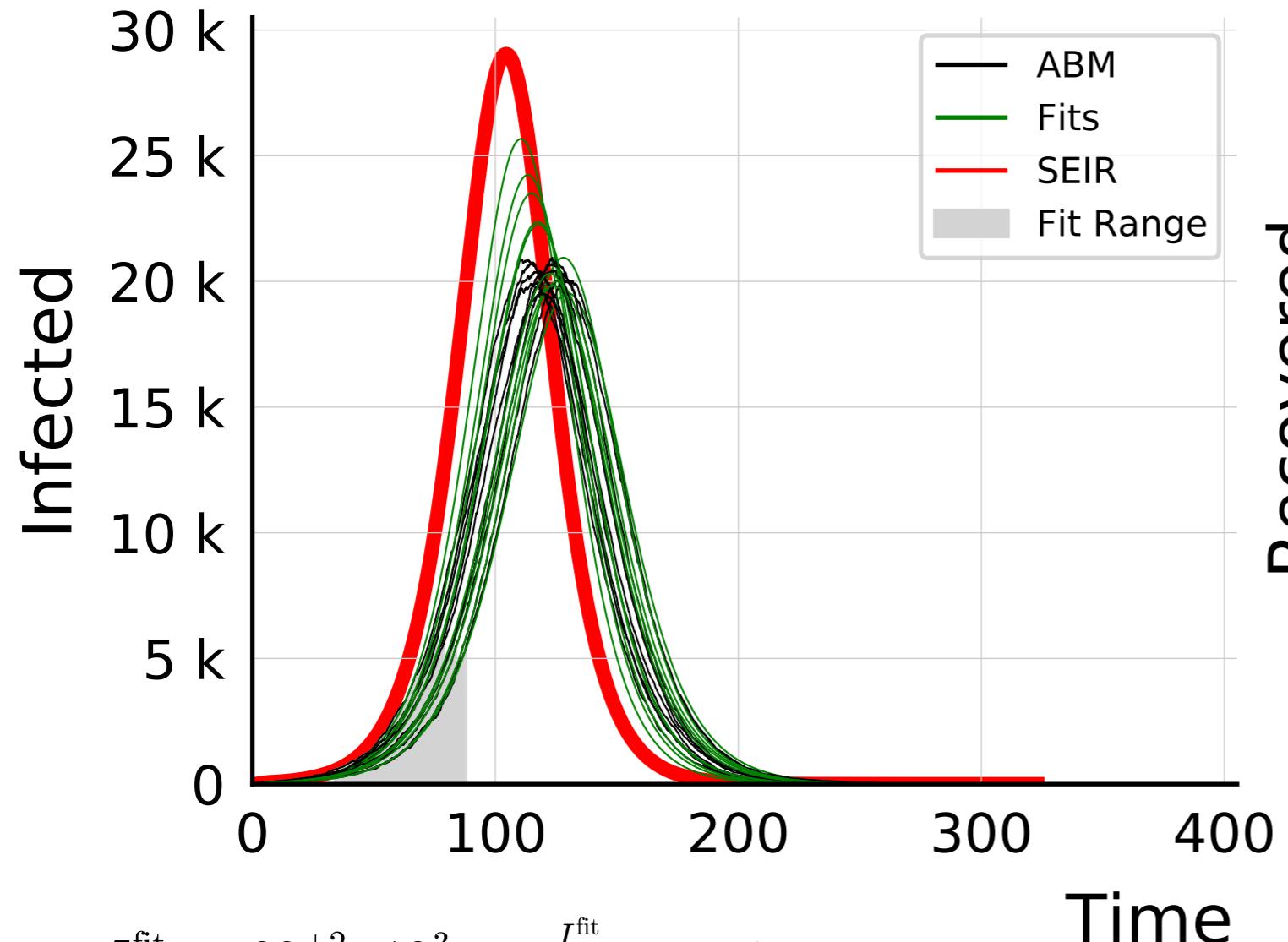
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 100.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

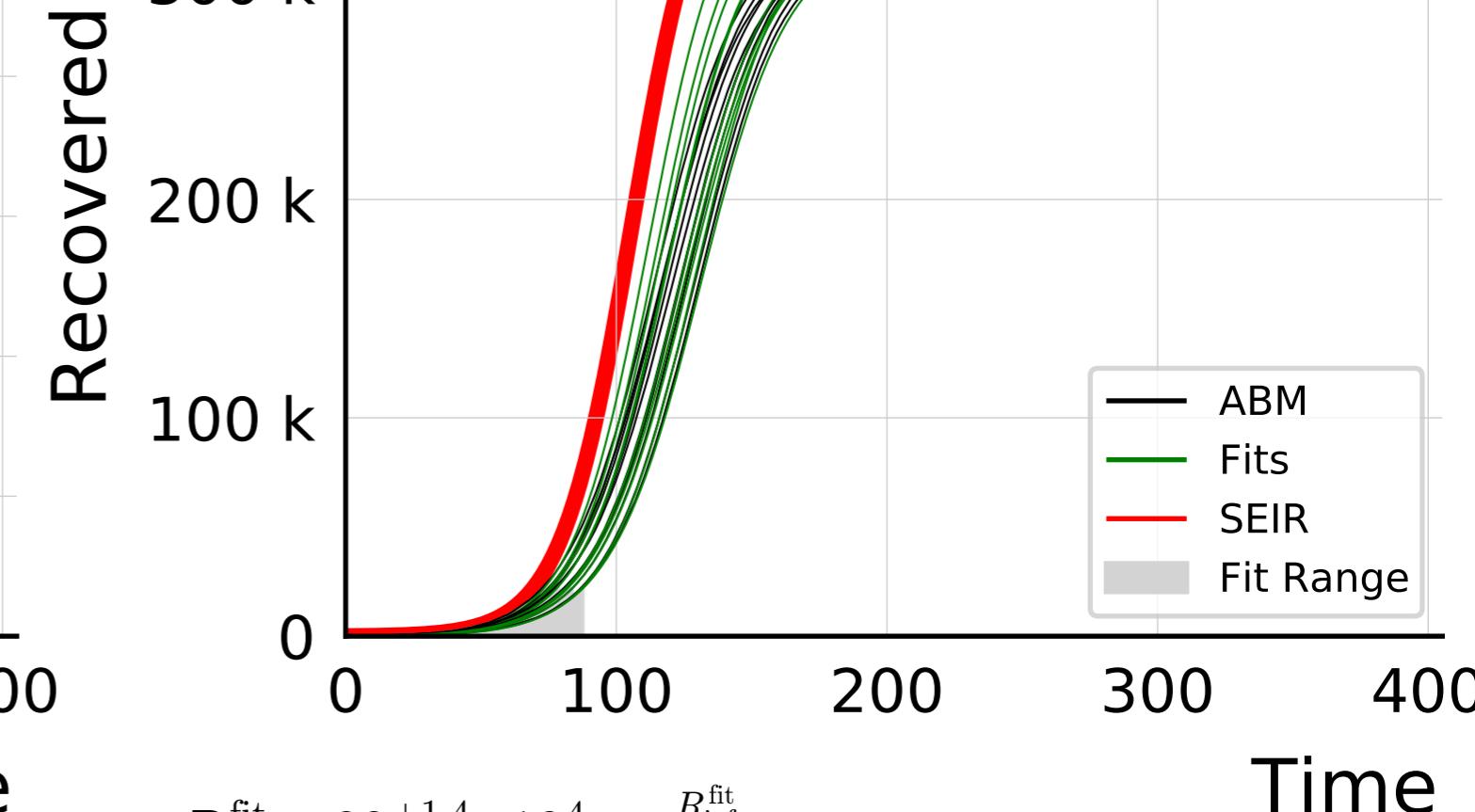


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



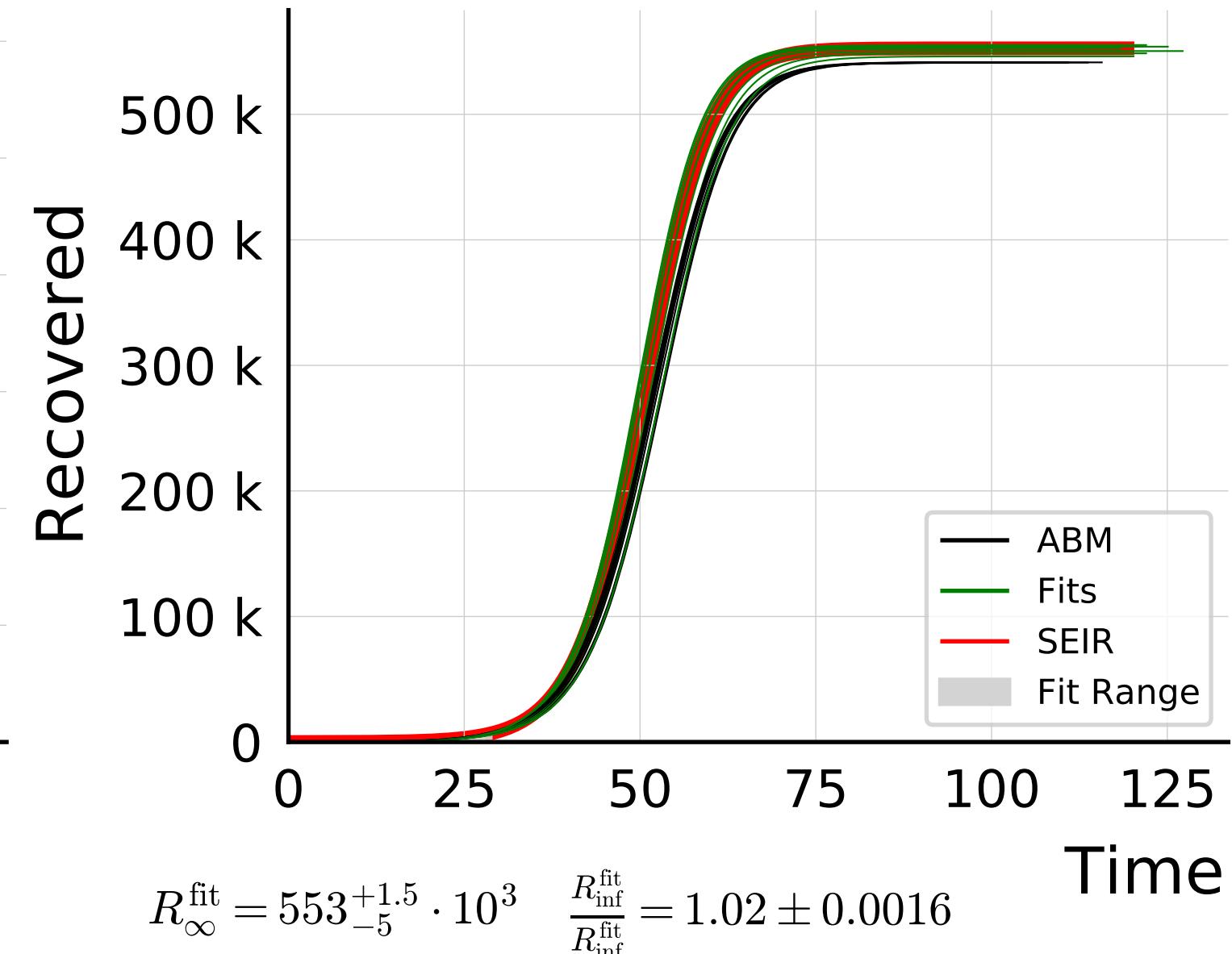
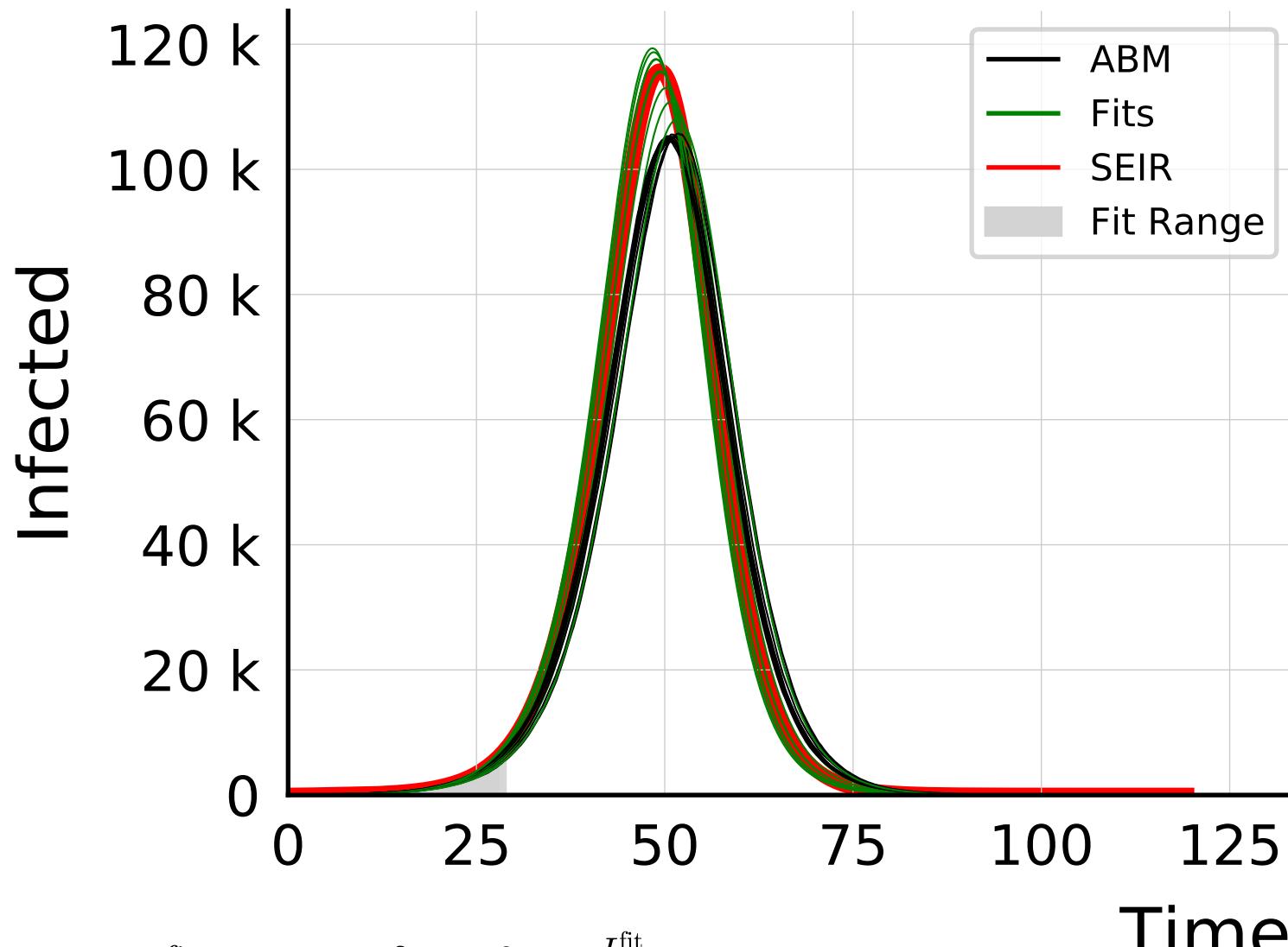
$$I_{\text{max}}^{\text{fit}} = 22^{+2}_{-2} \cdot 10^3$$

$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.07 \pm 0.031$$

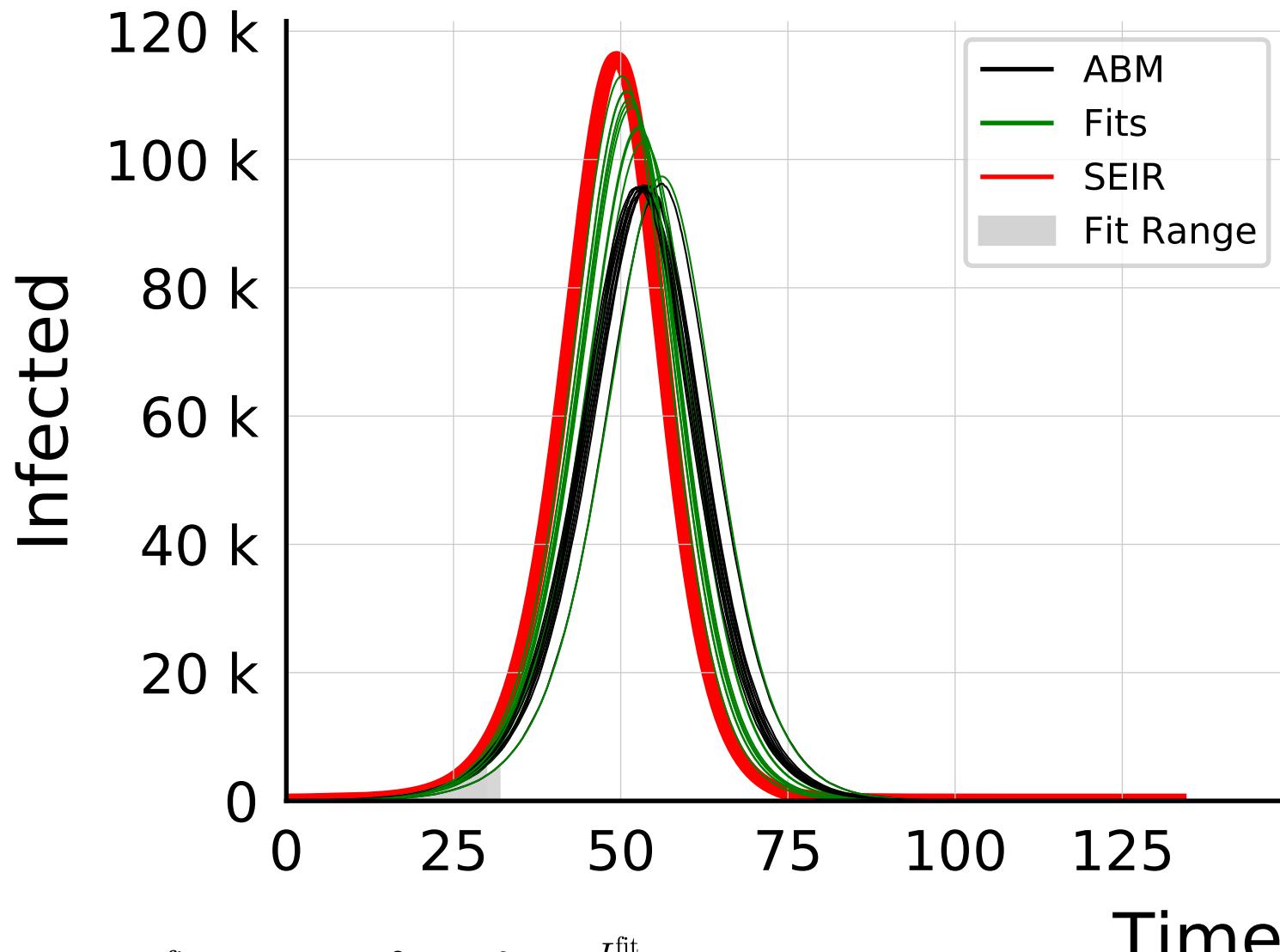


$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}^{\text{ABM}}} = 1.04 \pm 0.011$$

$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

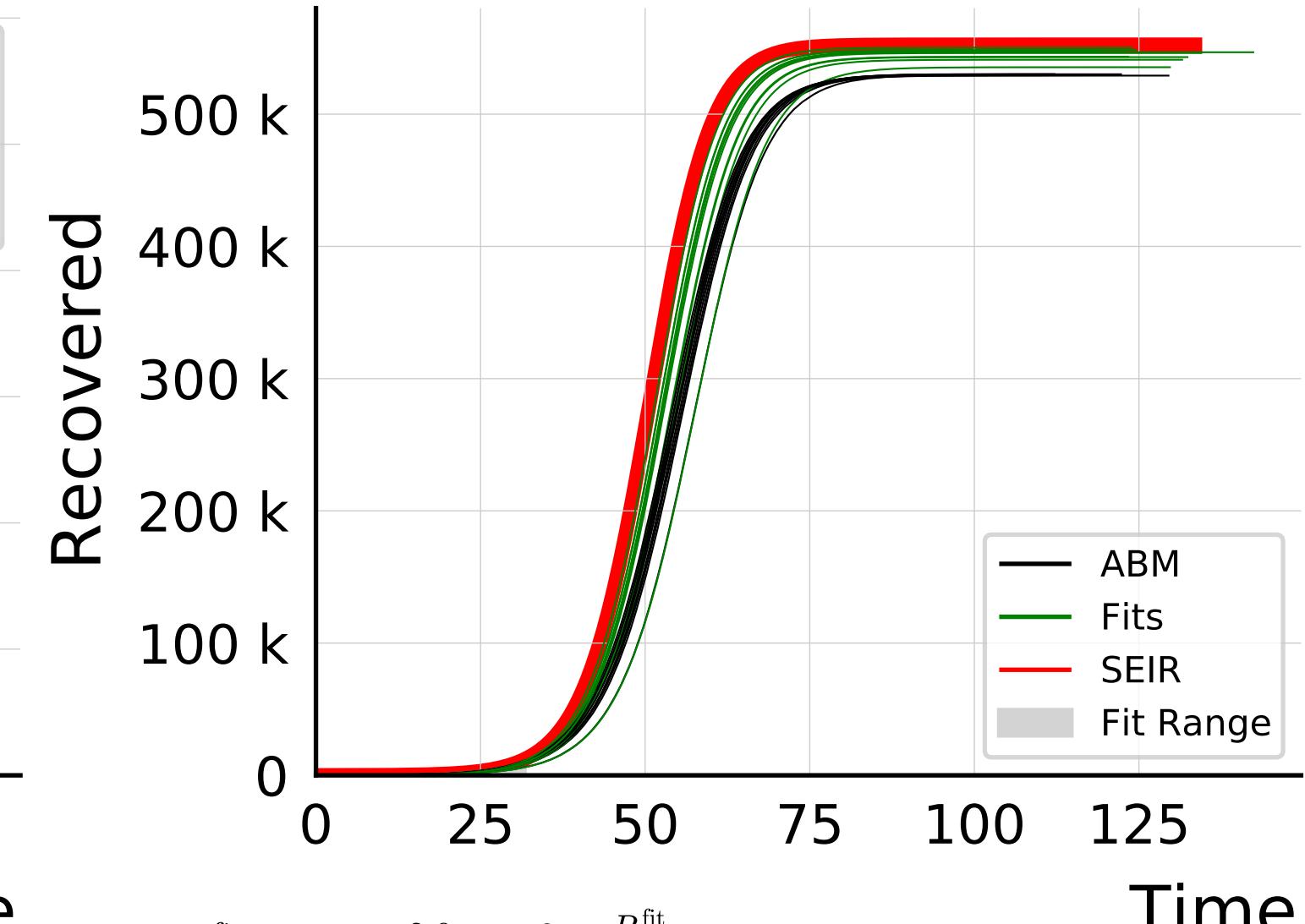


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 108_{-6}^{+2} \cdot 10^3$$

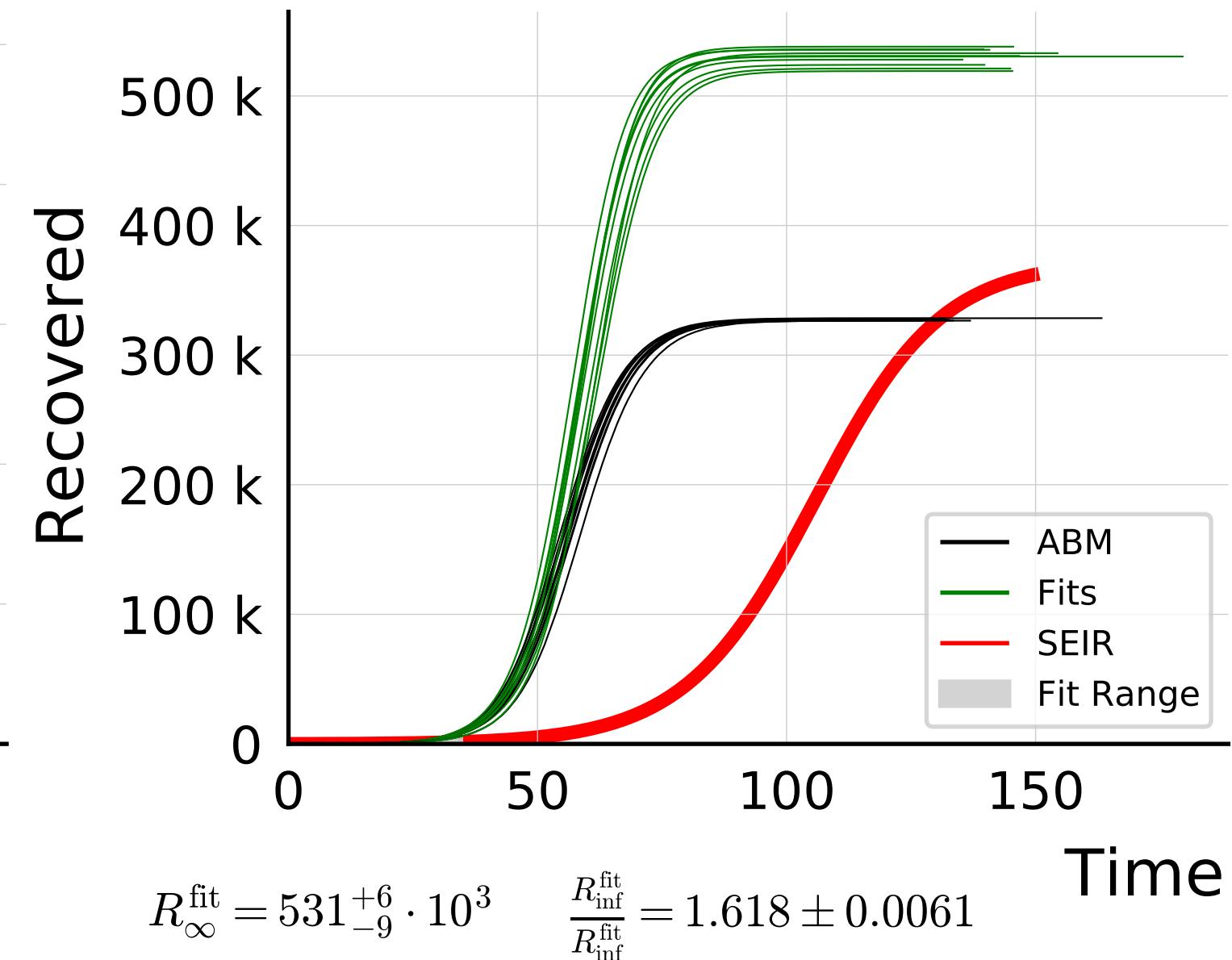
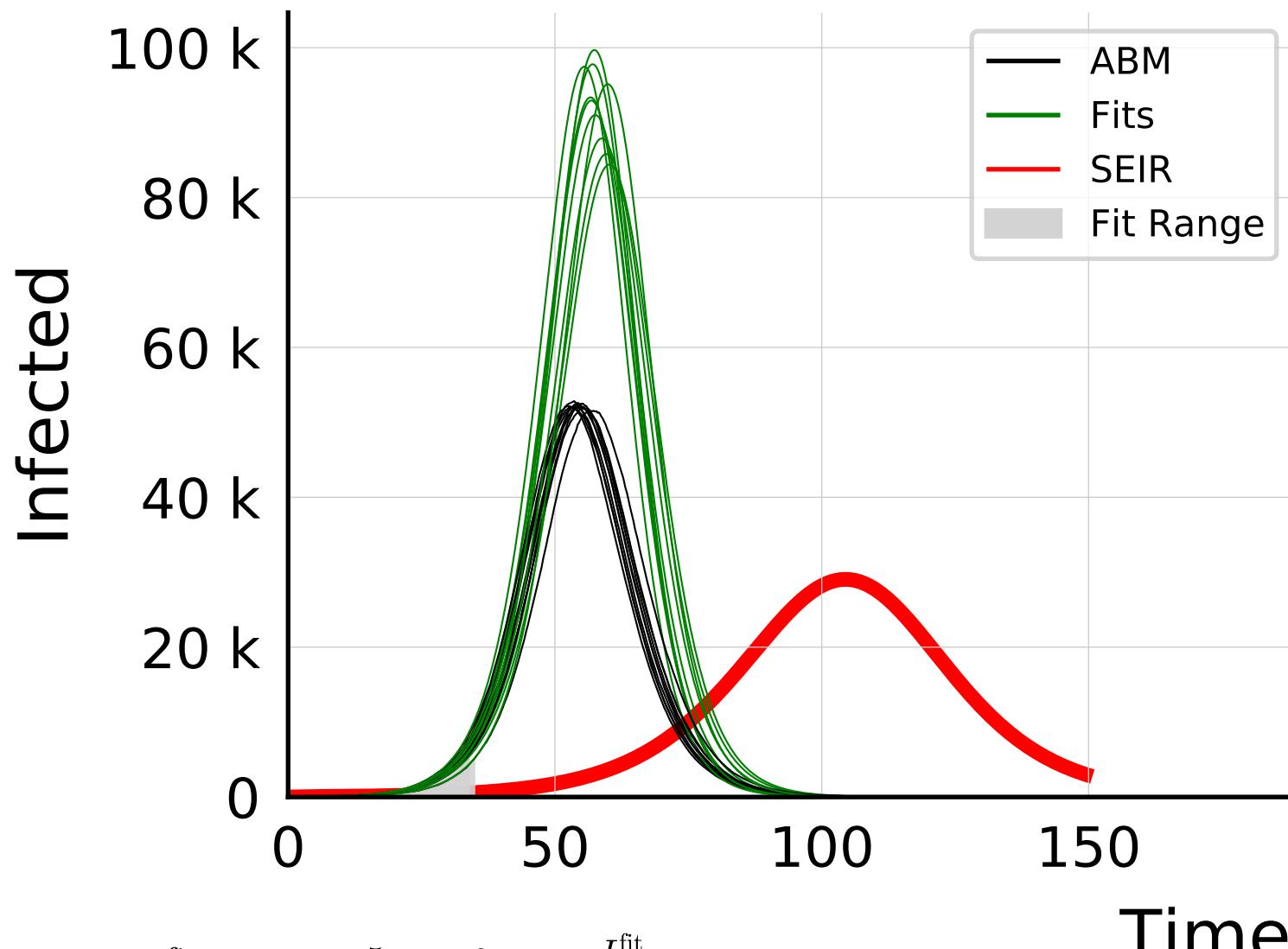
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.12 \pm 0.015$$



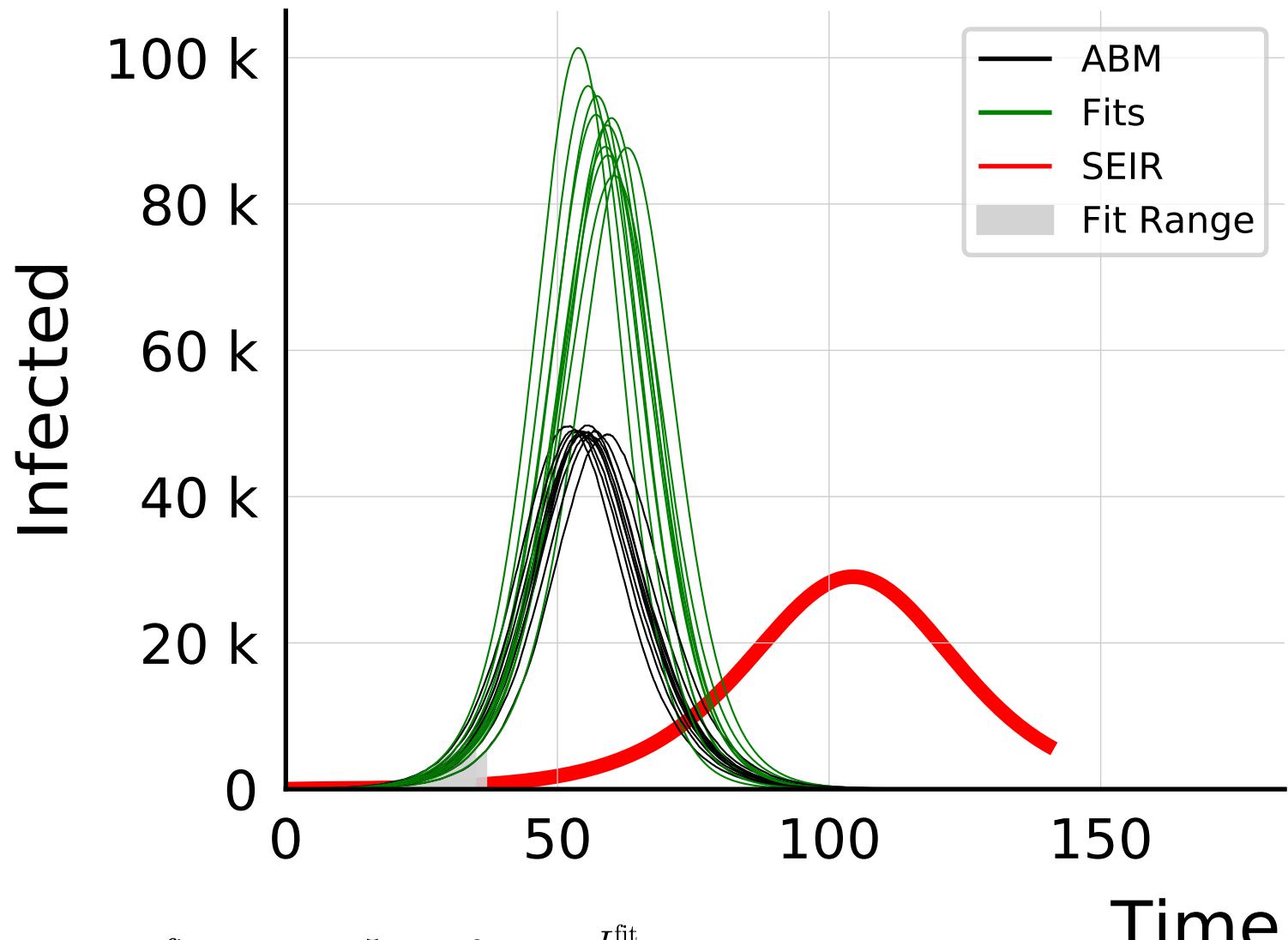
$$R_{\infty}^{\text{fit}} = 546_{-5}^{+2.0} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.029 \pm 0.0025$$

$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

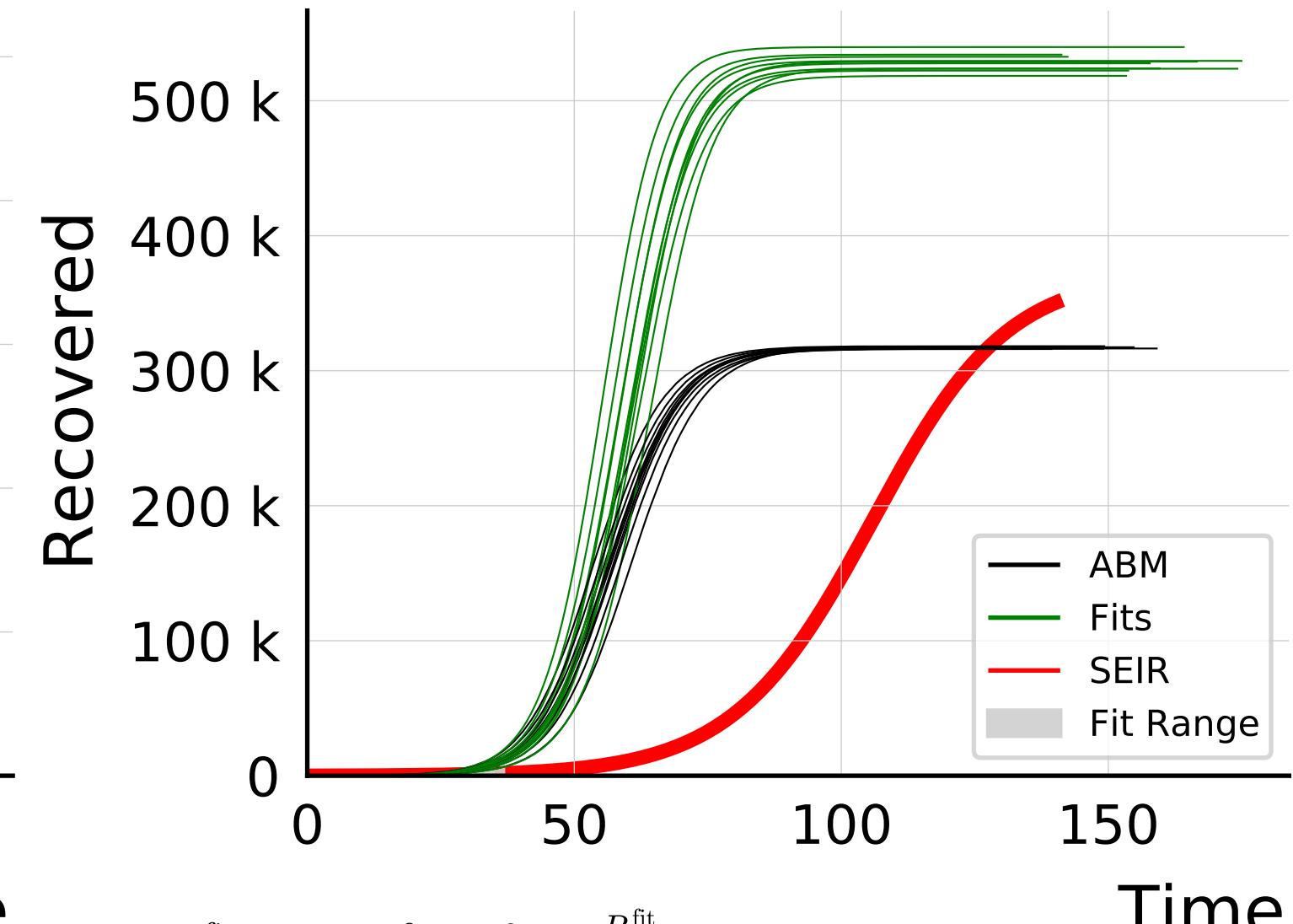


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 91^{+5}_{-5} \cdot 10^3$$

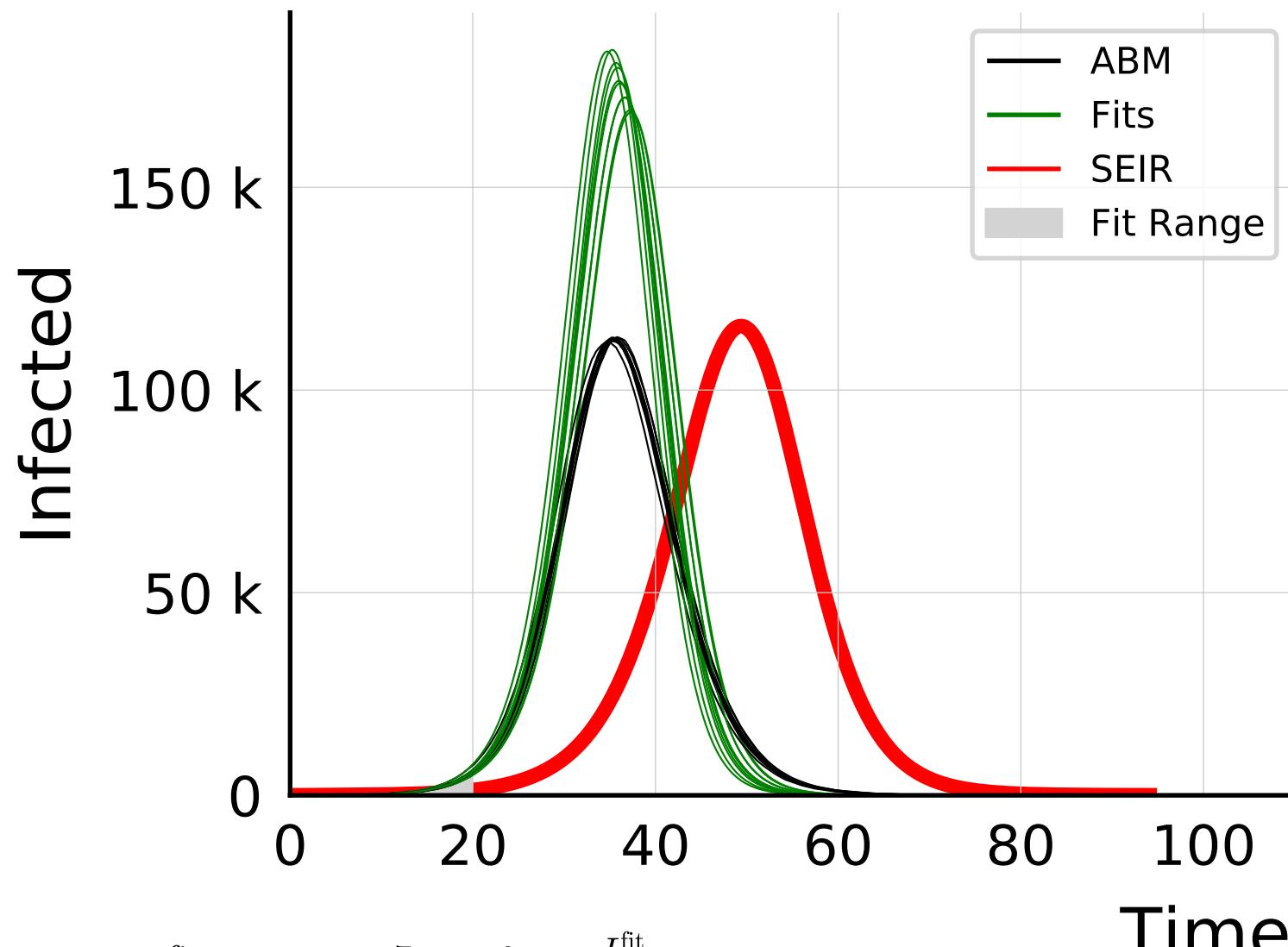
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.86 \pm 0.029$$



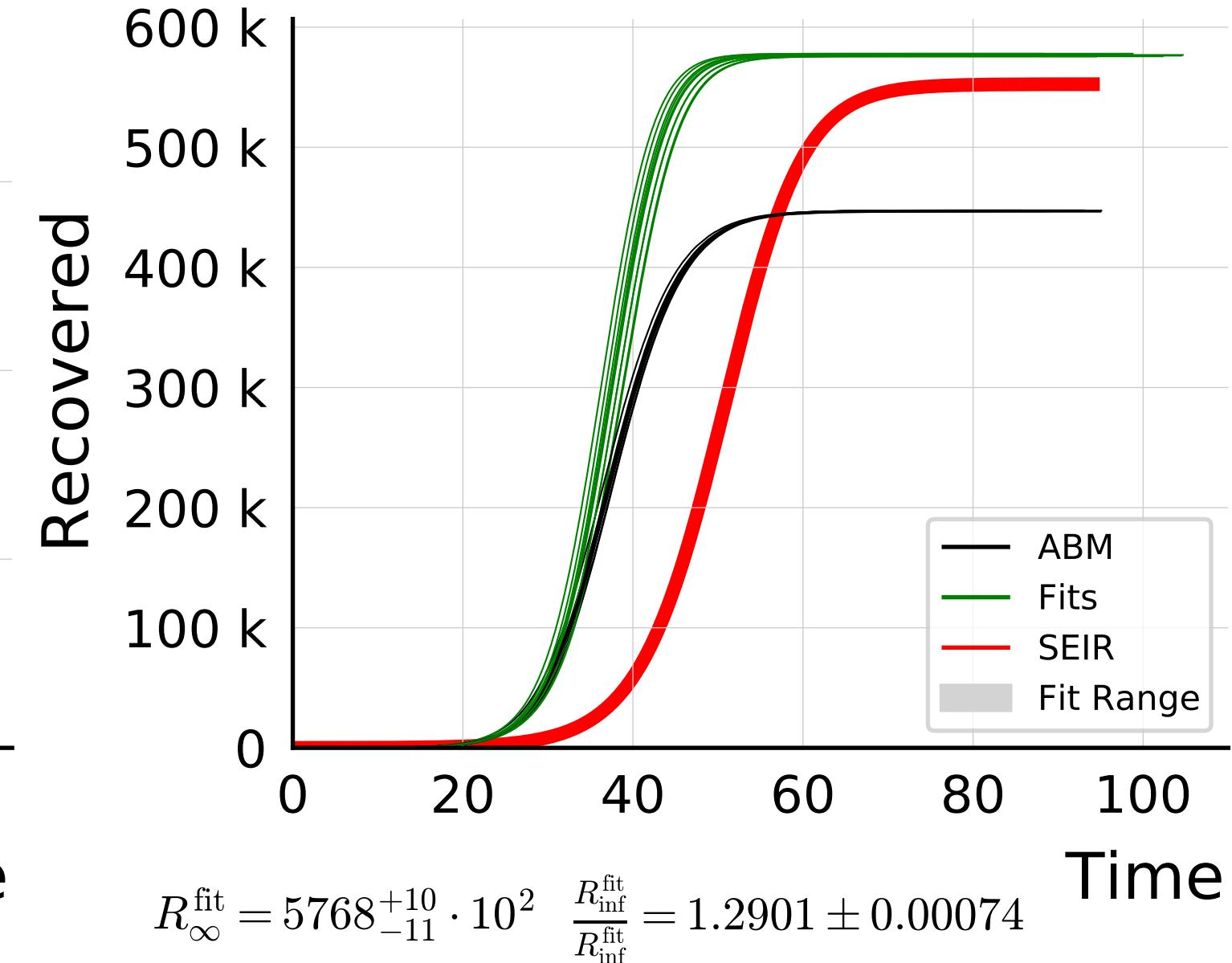
$$R_{\infty}^{\text{fit}} = 528^{+6}_{-6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.665 \pm 0.0056$$

$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

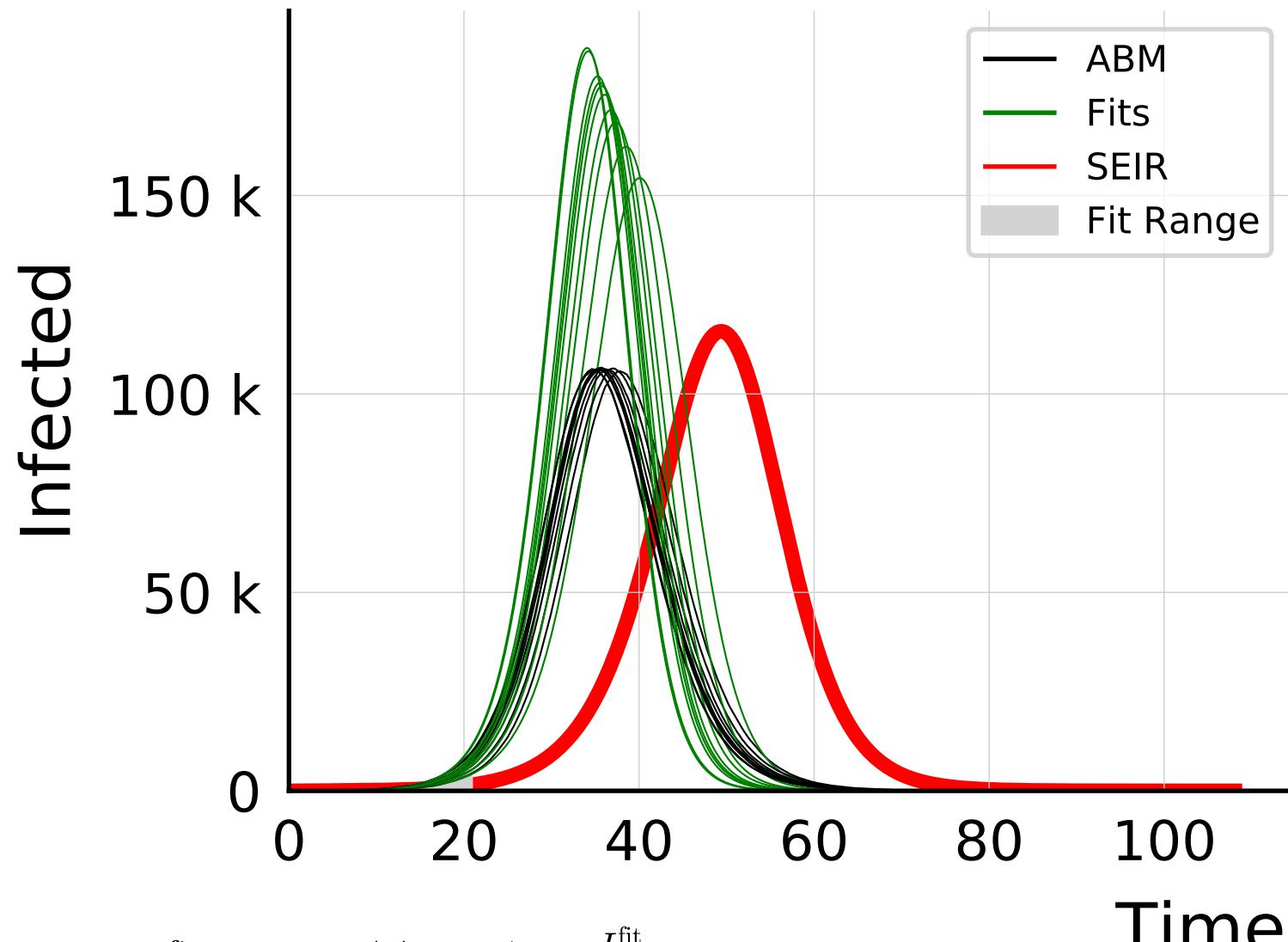


$$I_{\max}^{\text{fit}} = 176_{-6}^{+7} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.57 \pm 0.016$$



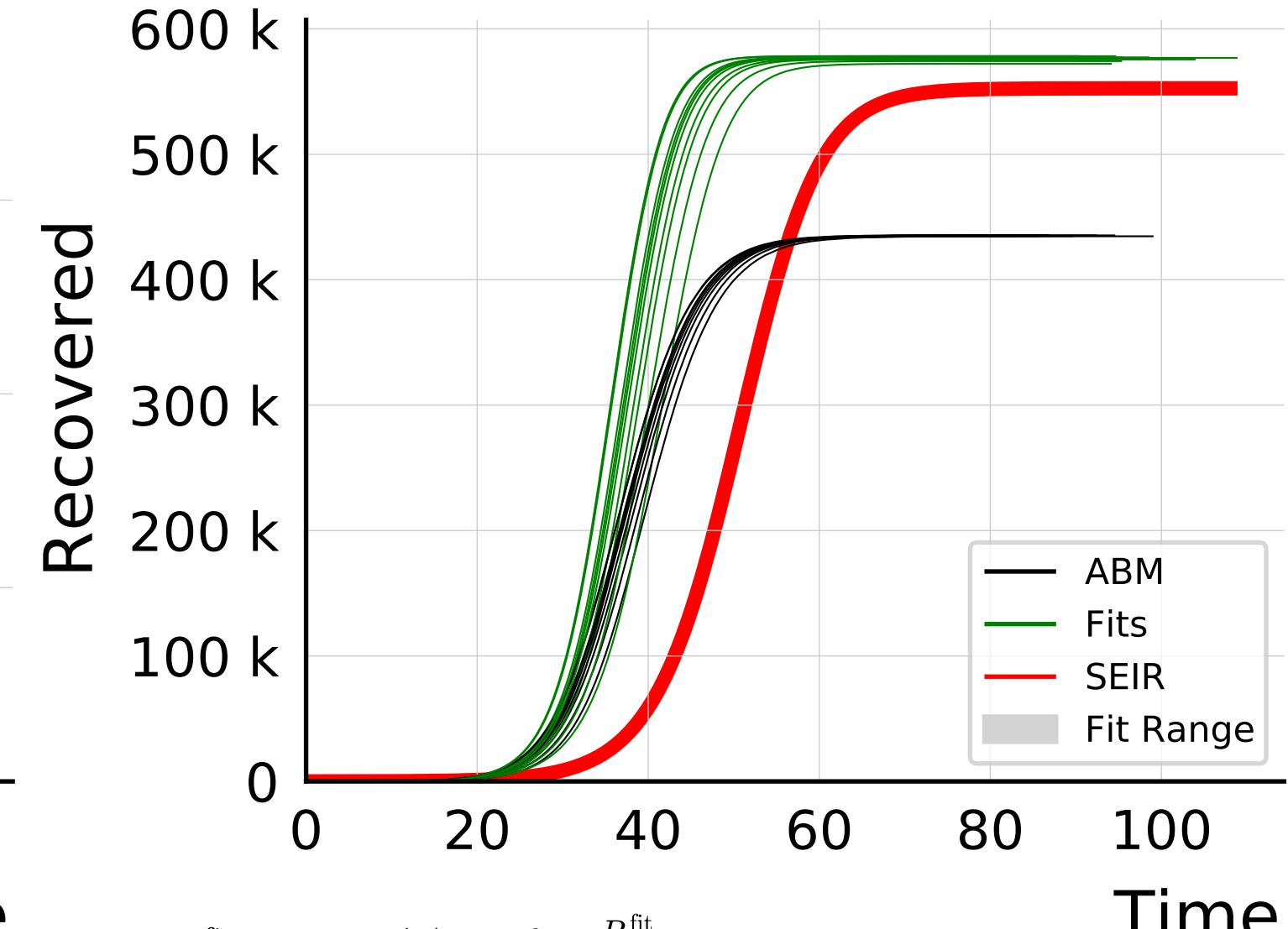
$$R_{\infty}^{\text{fit}} = 5768_{-11}^{+10} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.2901 \pm 0.00074$$

$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 18_{-1.3}^{+1.1} \cdot 10^4$$

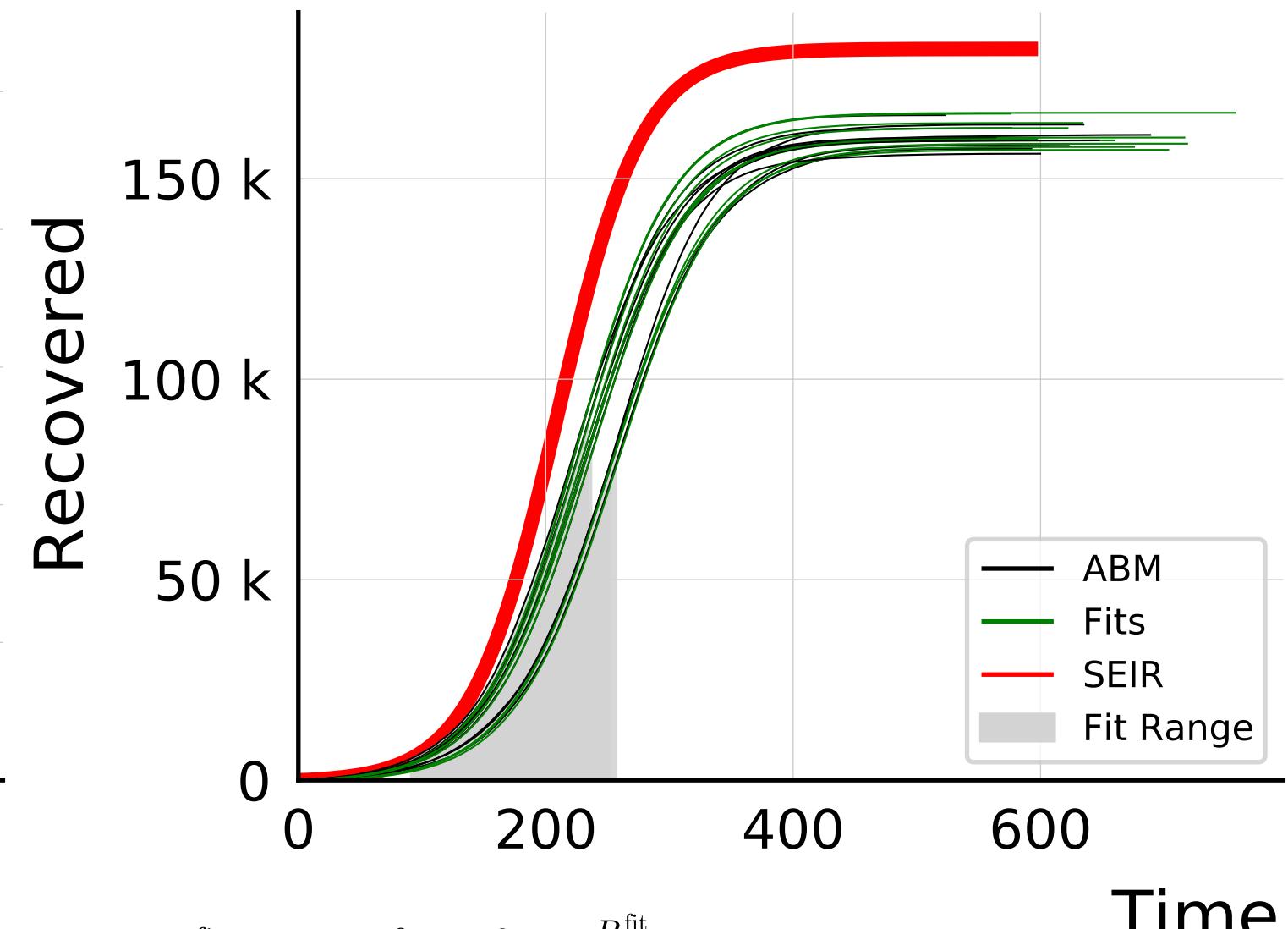
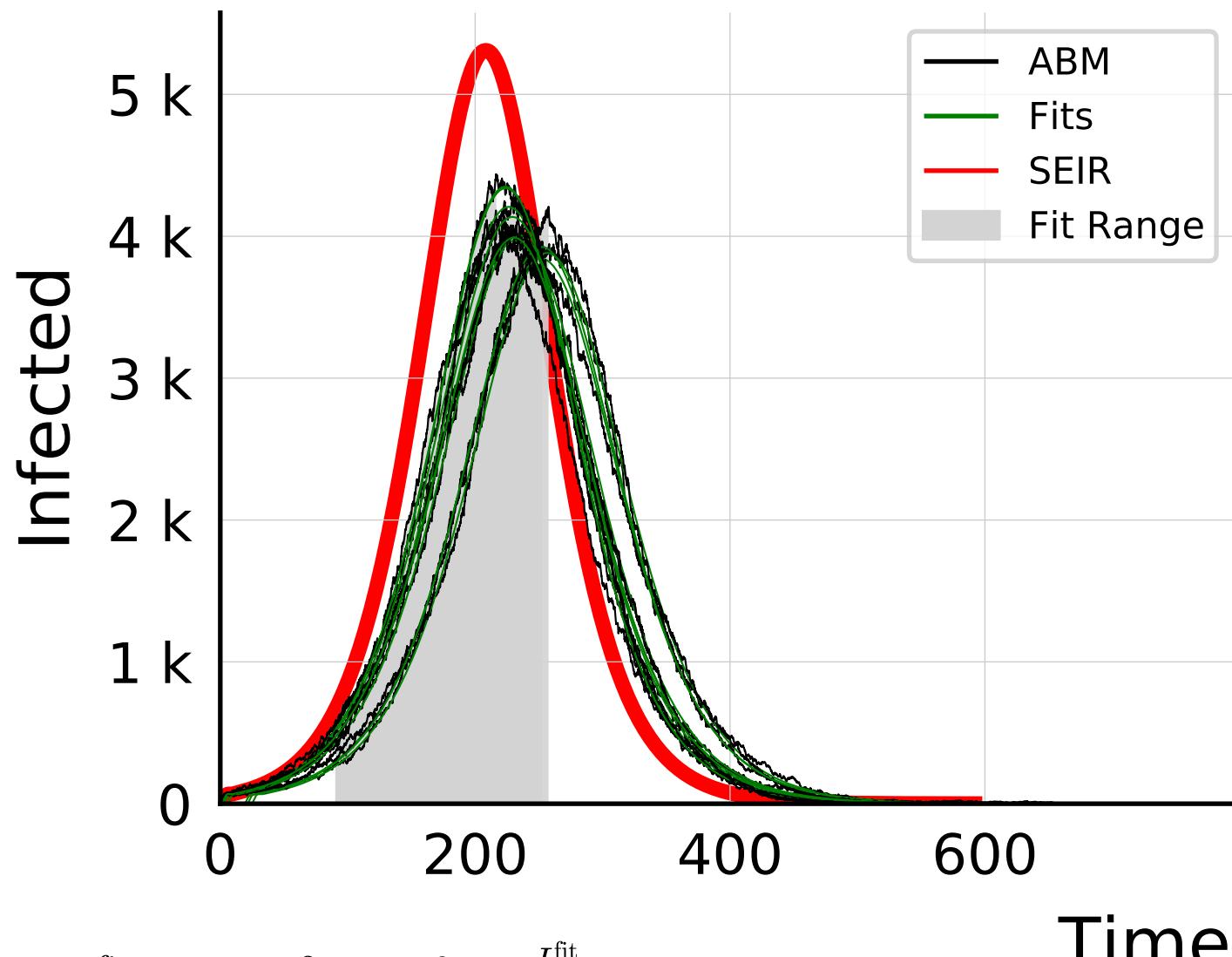
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.64 \pm 0.029$$



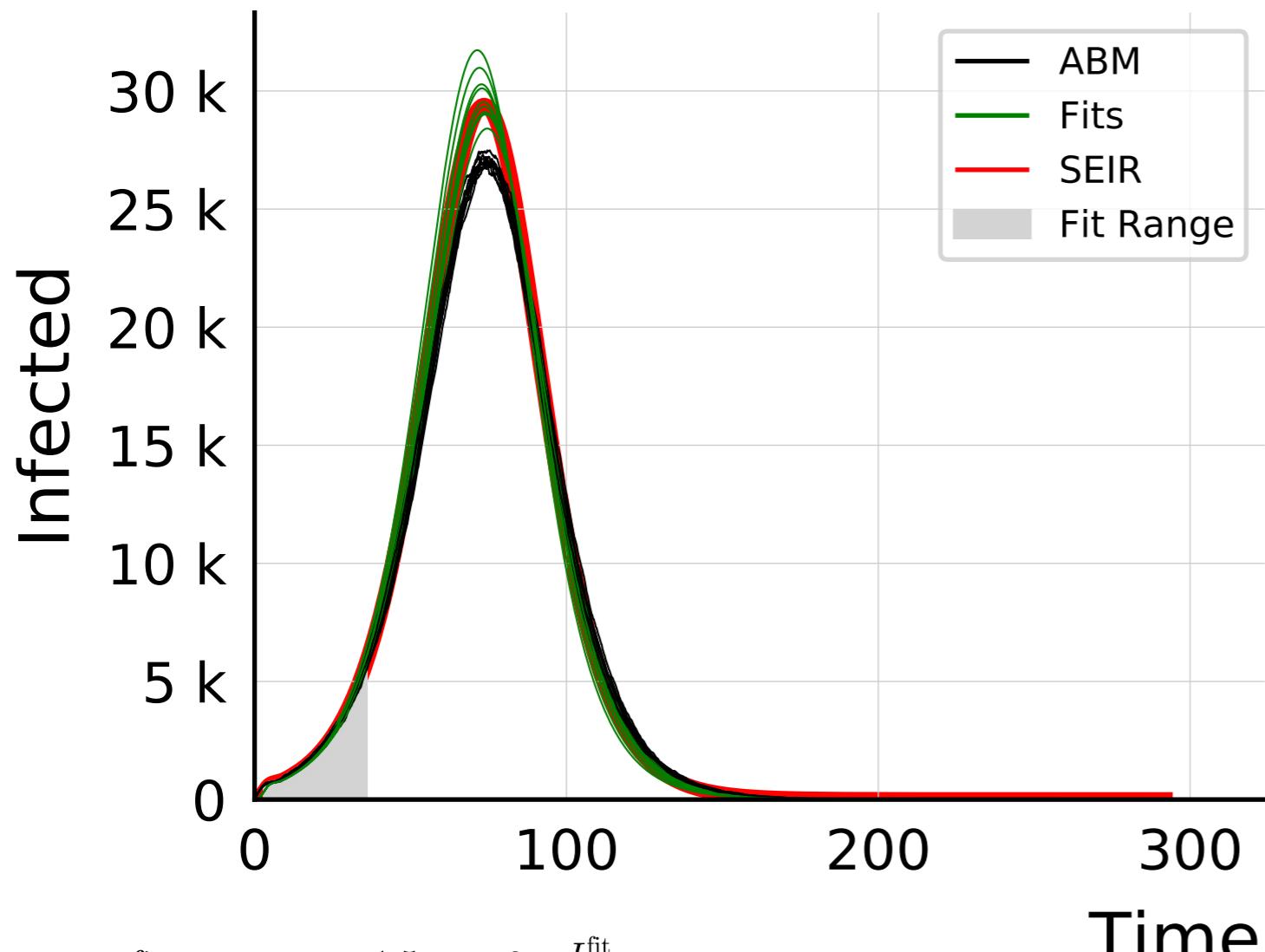
$$R_{\infty}^{\text{fit}} = 577_{-3}^{+1.4} \cdot 10^3$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.325 \pm 0.0013$$

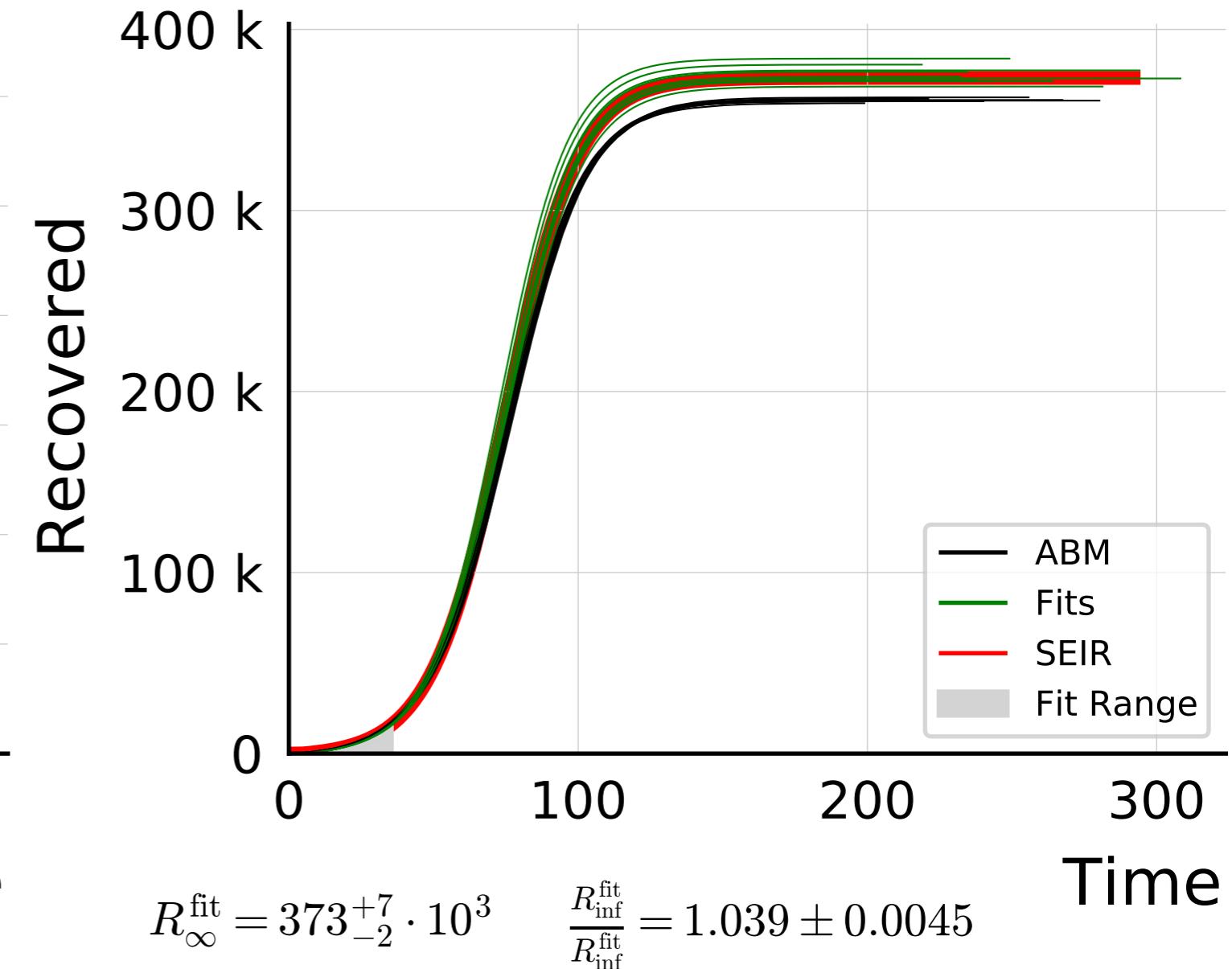
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 30.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 1K$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

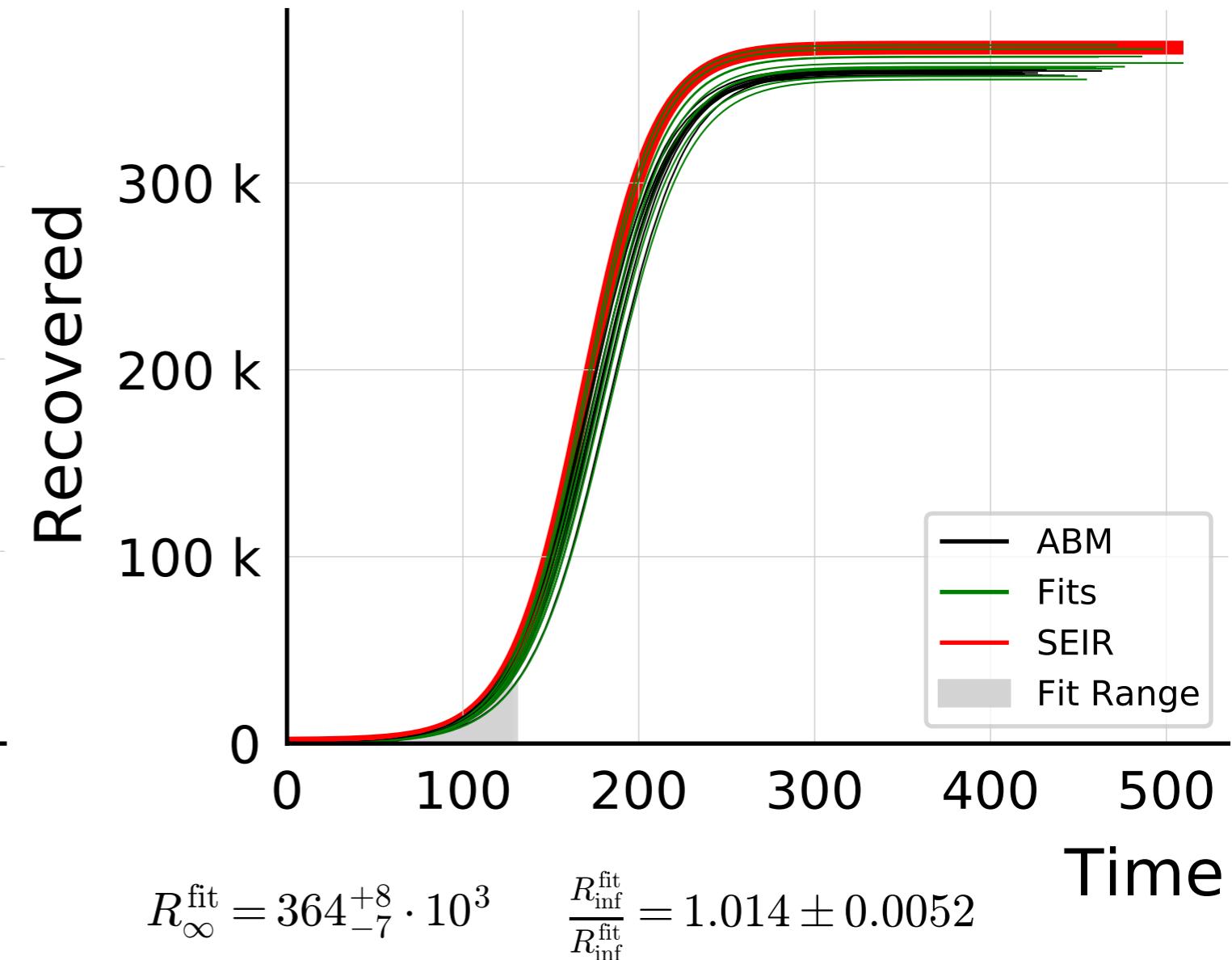
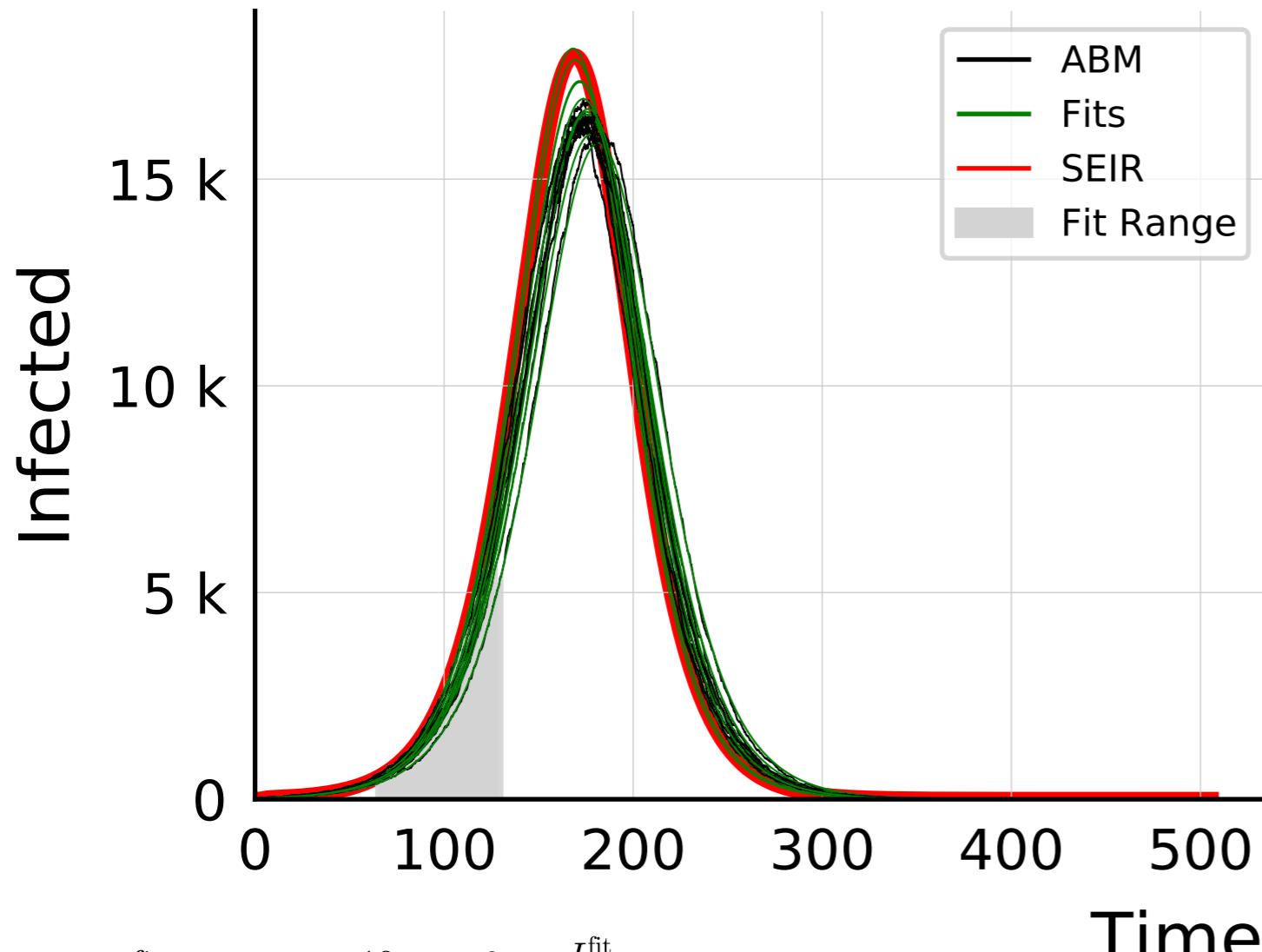


$$I_{\max}^{\text{fit}} = 29.4_{-0.5}^{+1.5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.1 \pm 0.012$$

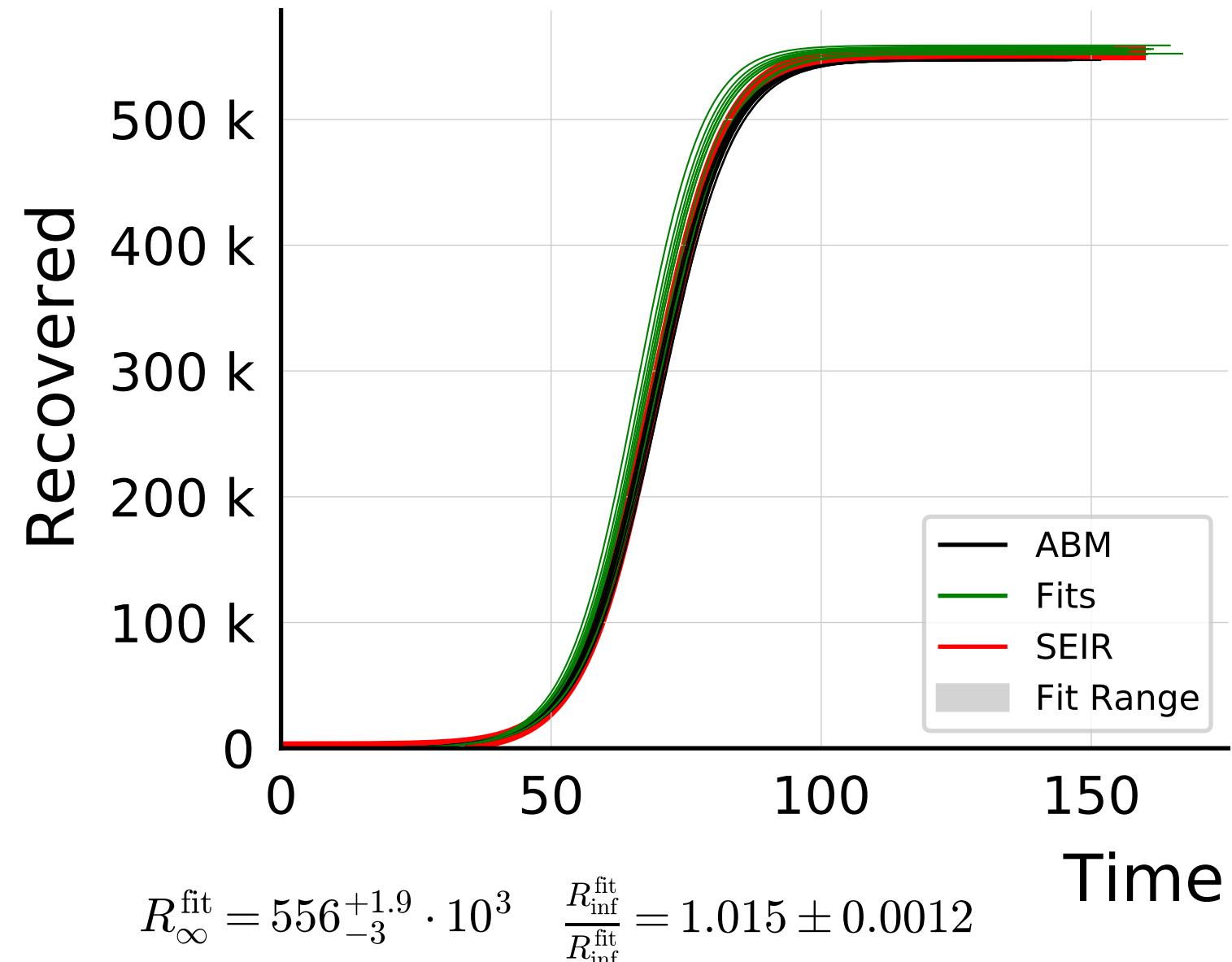
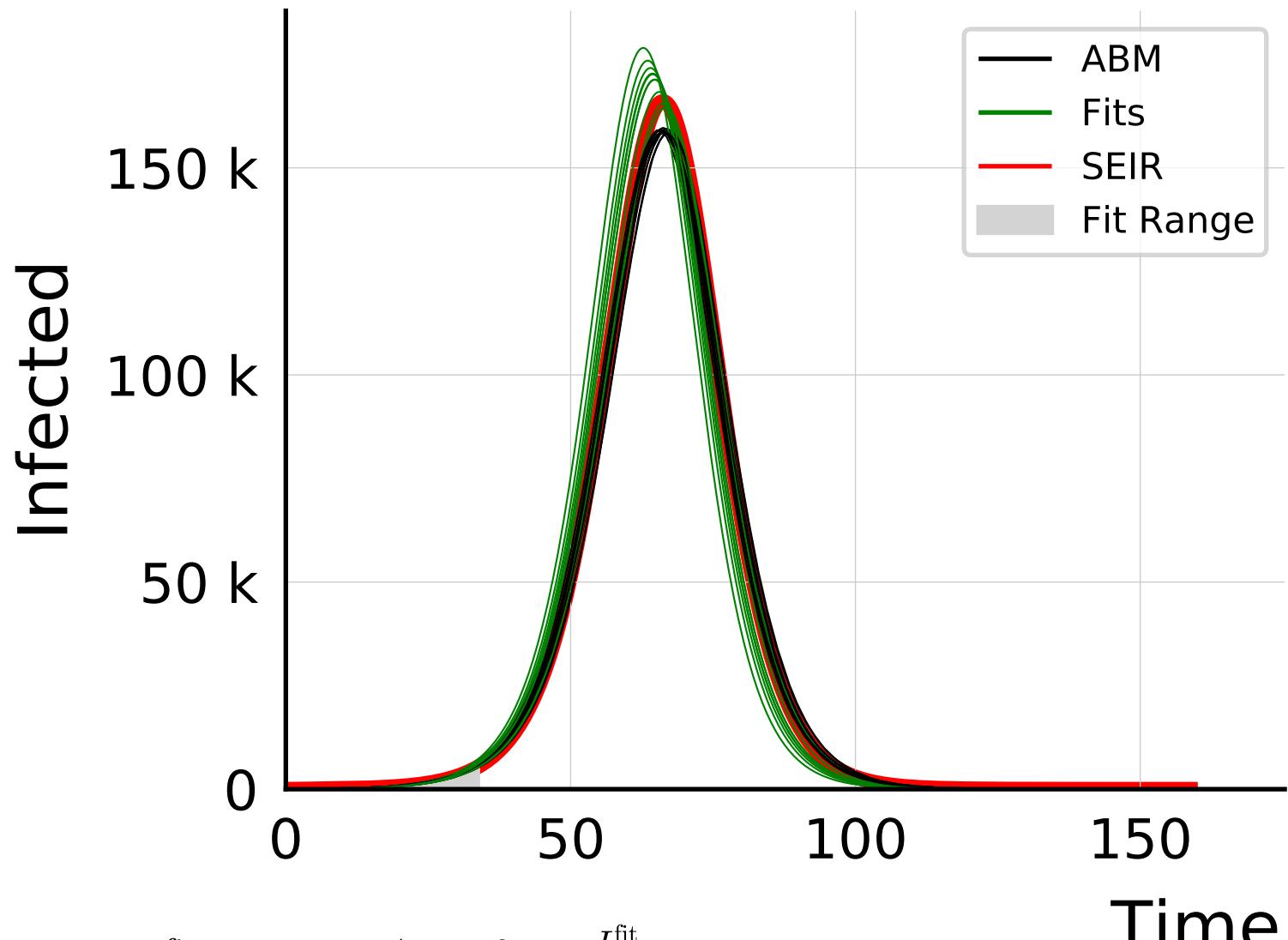


$$R_{\infty}^{\text{fit}} = 373_{-2}^{+7} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.039 \pm 0.0045$$

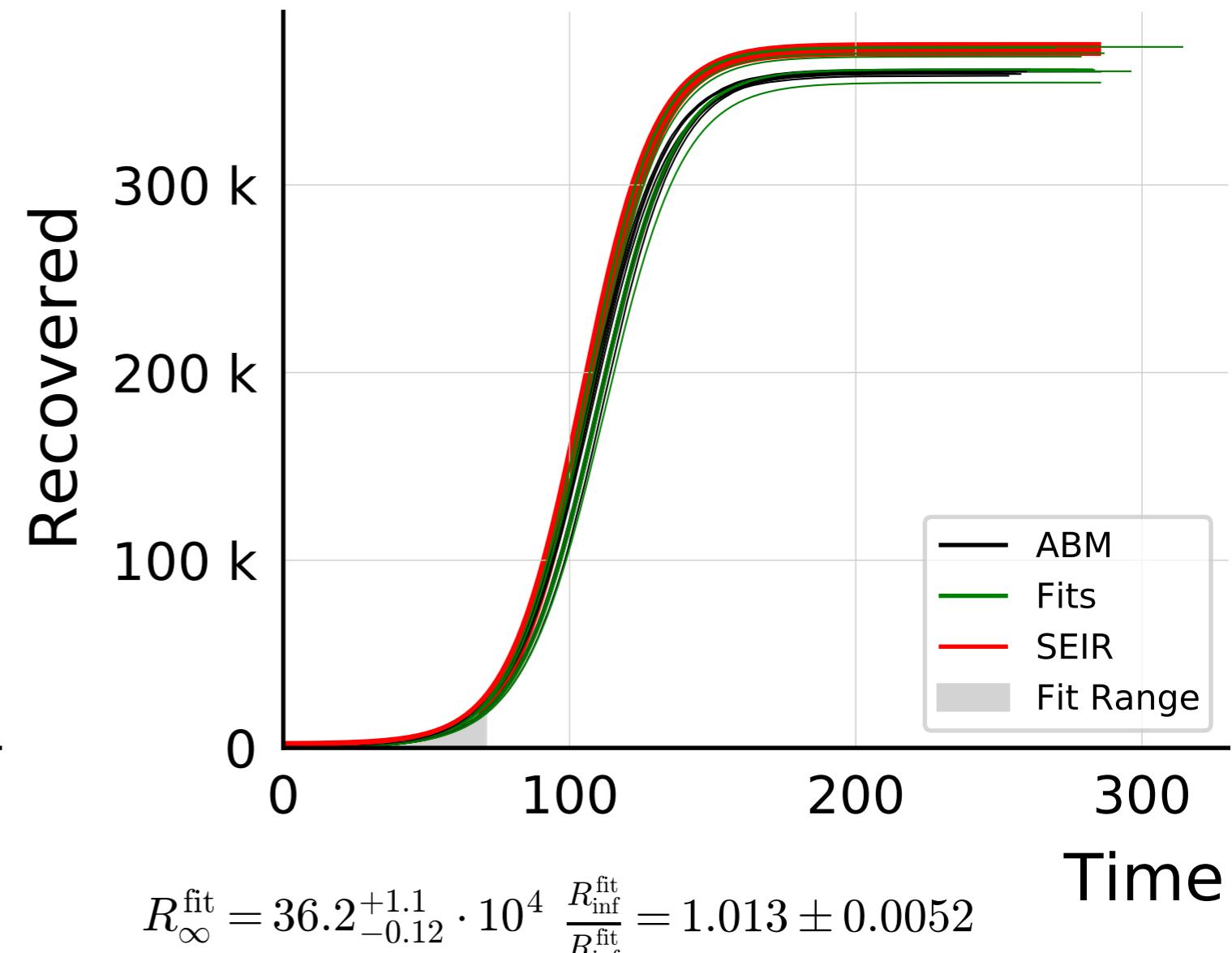
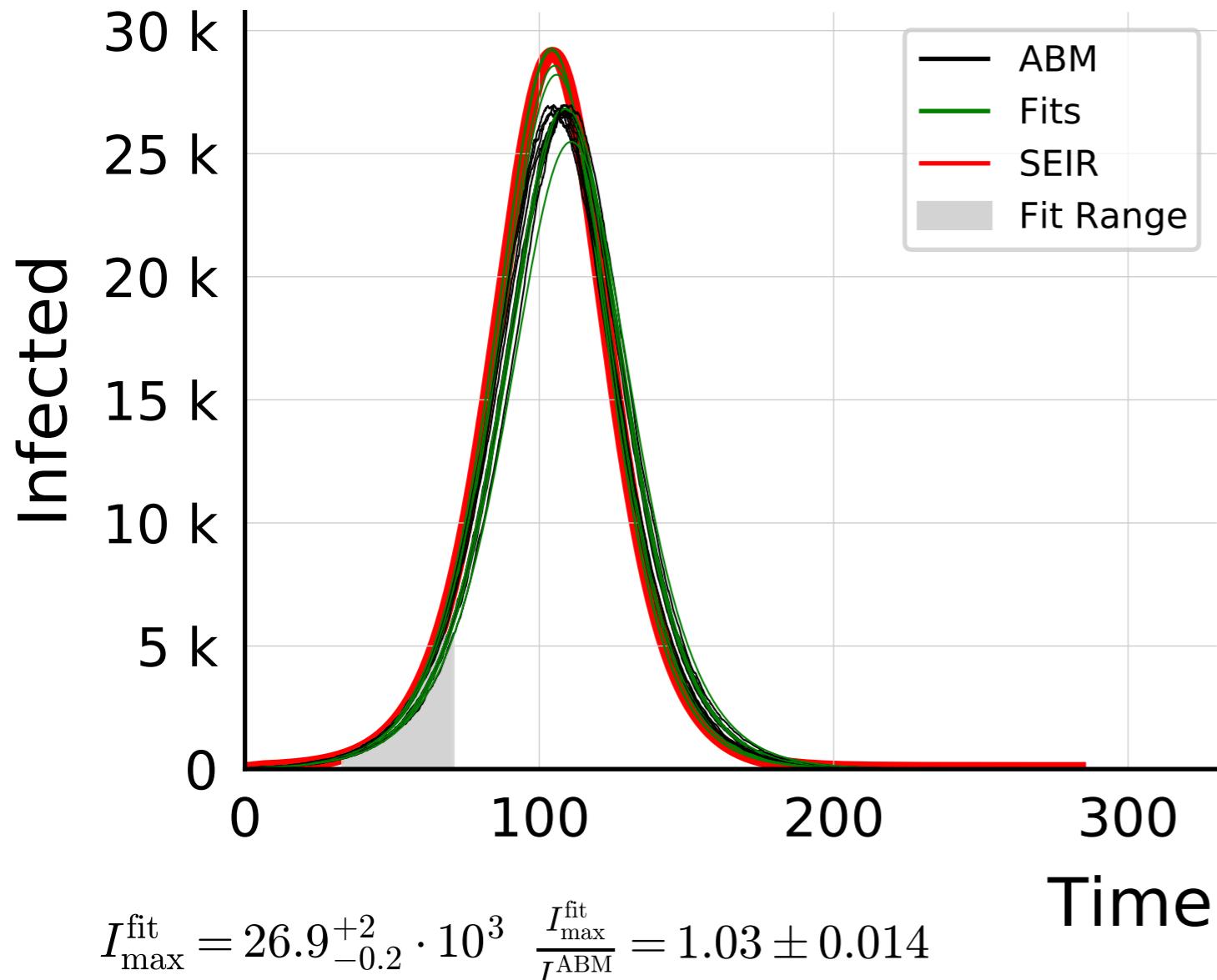
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 0.5$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



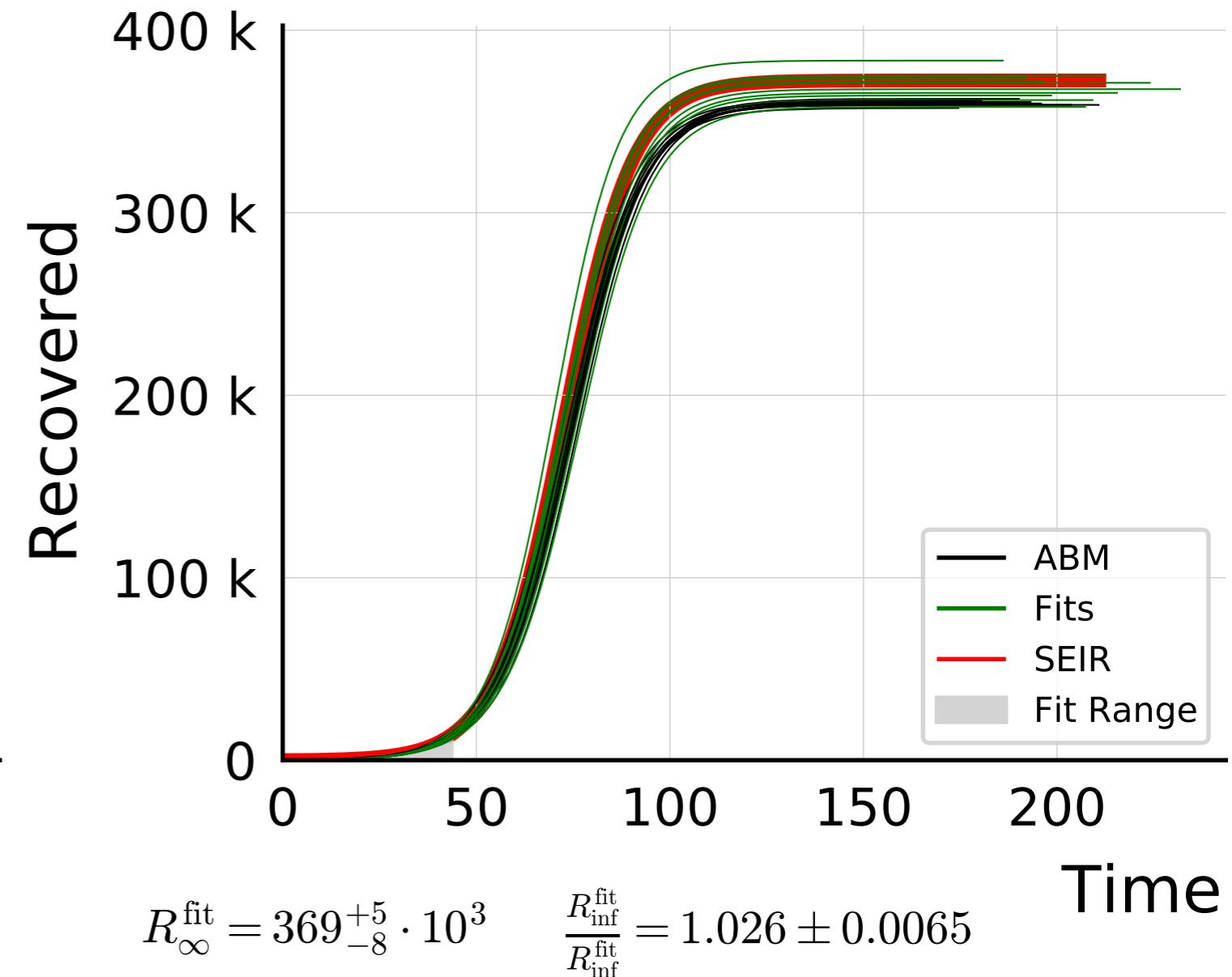
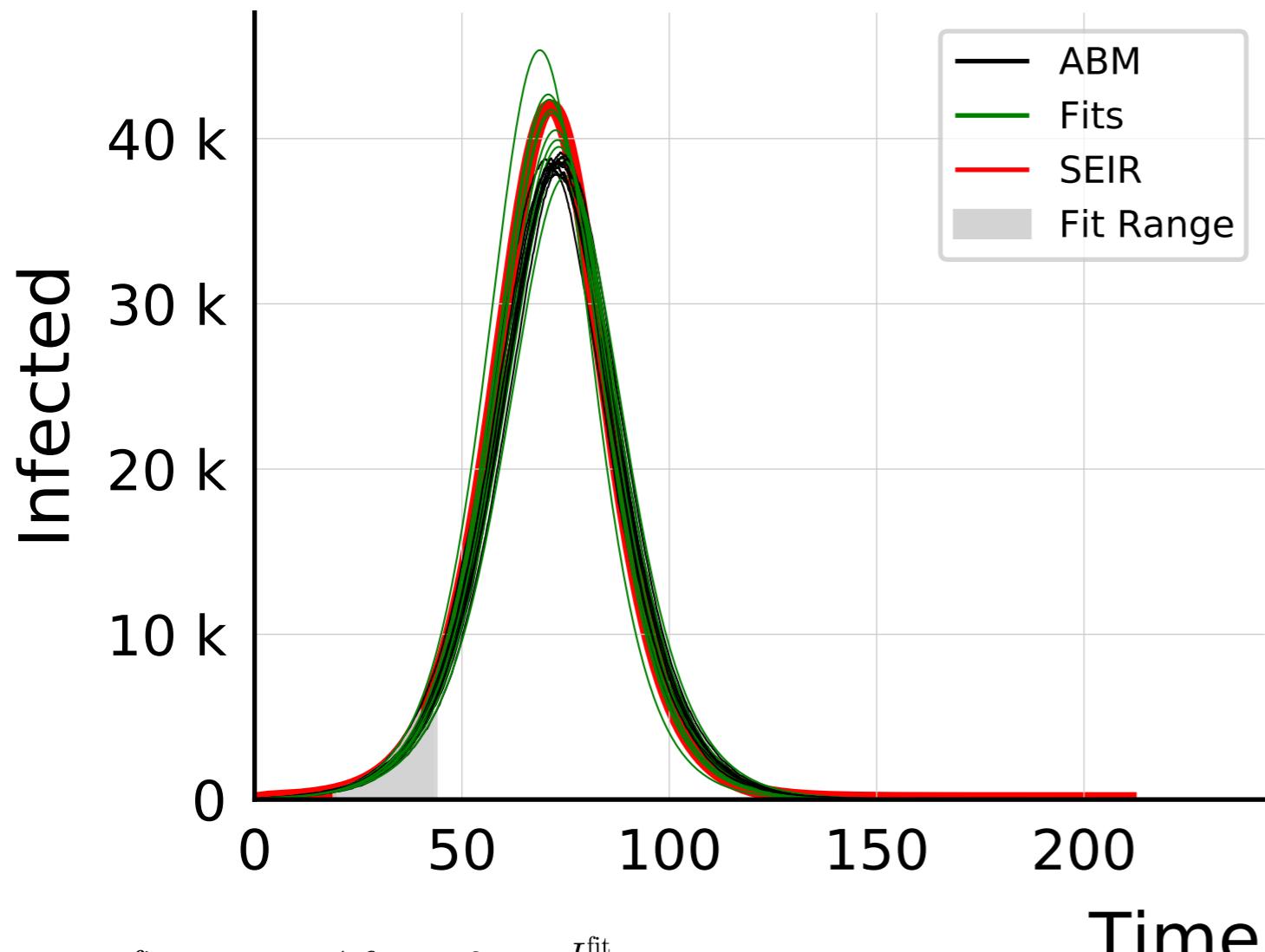
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 0.5$, rand. inf. = True, v. = 1.0, #10



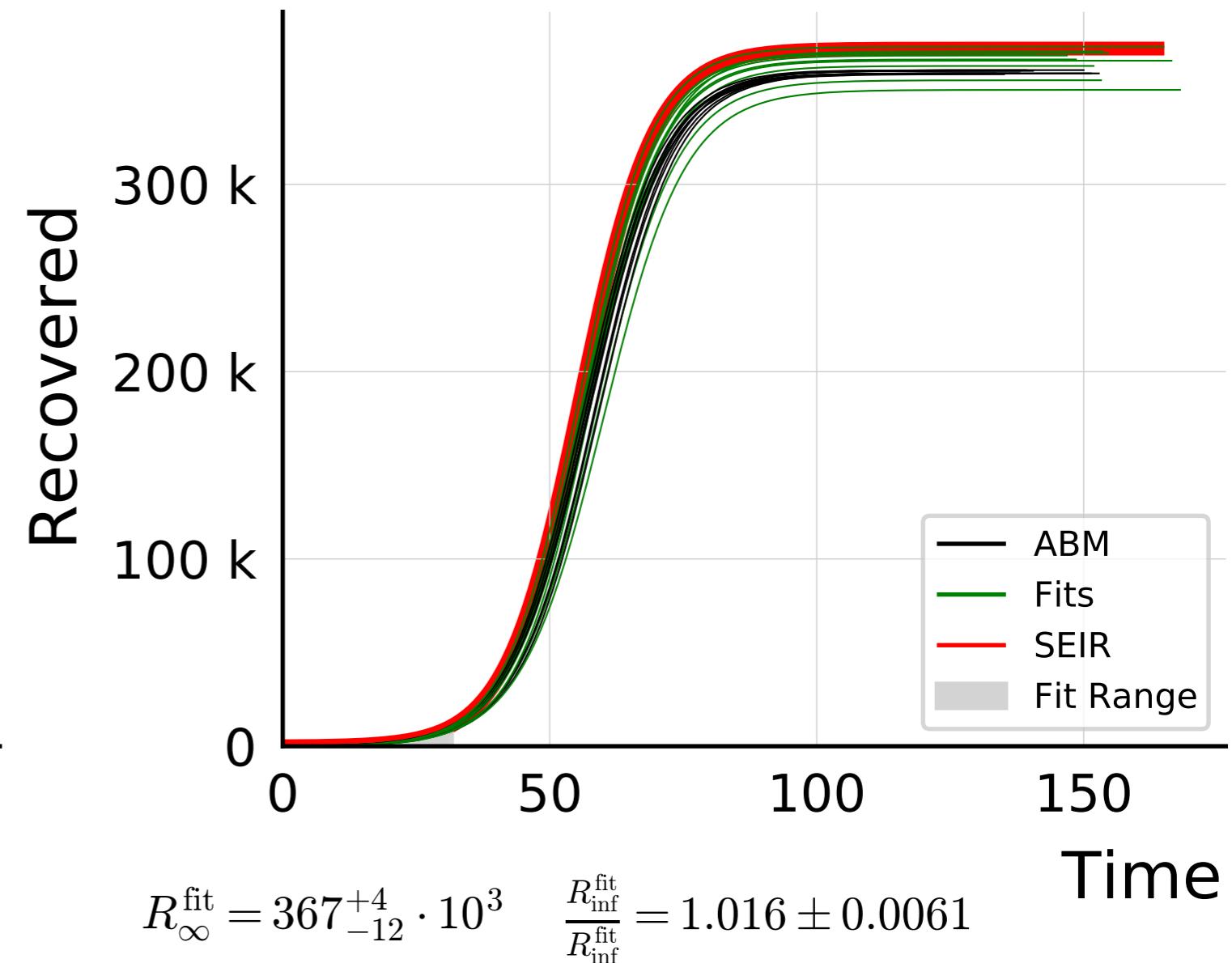
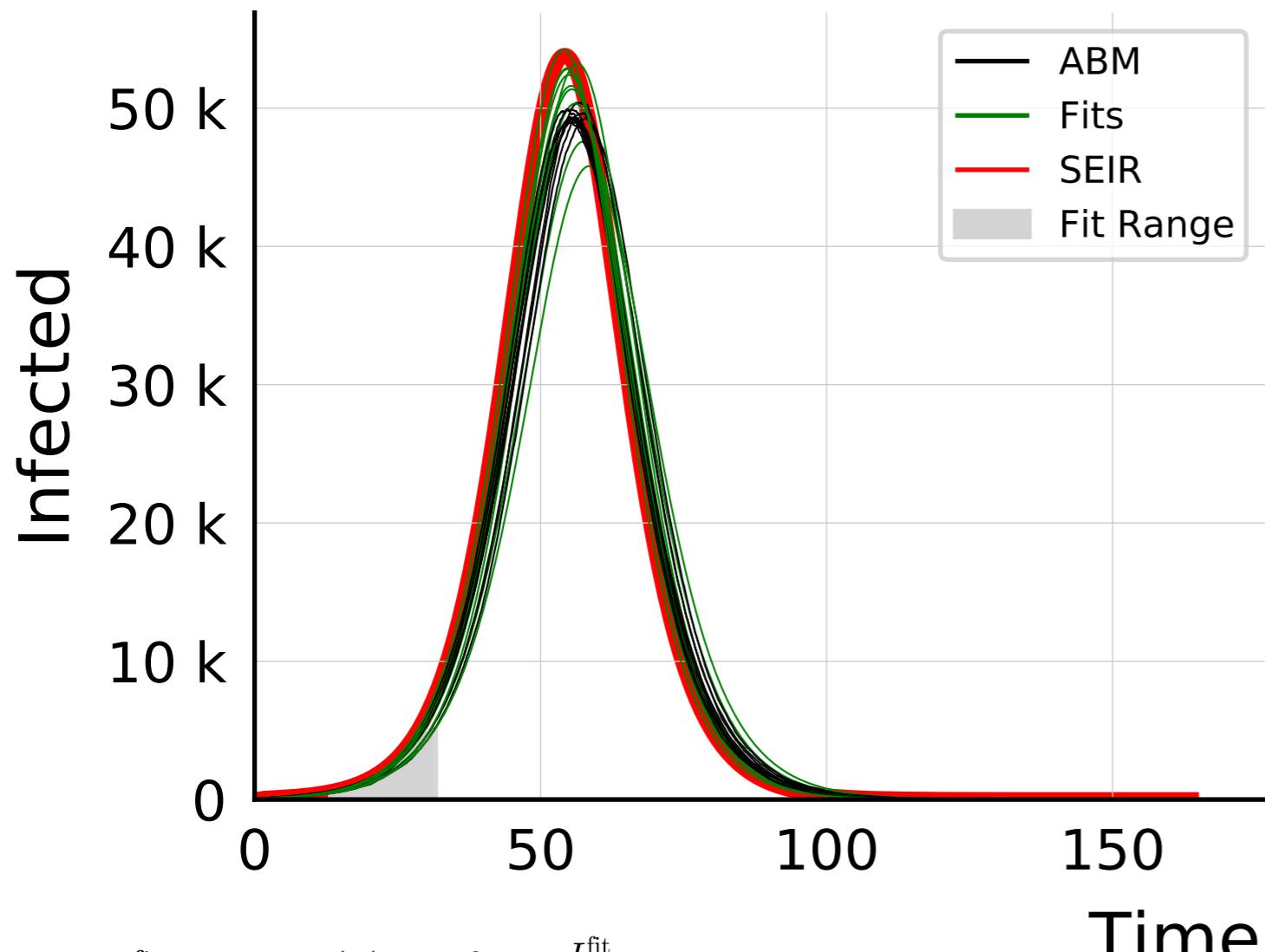
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



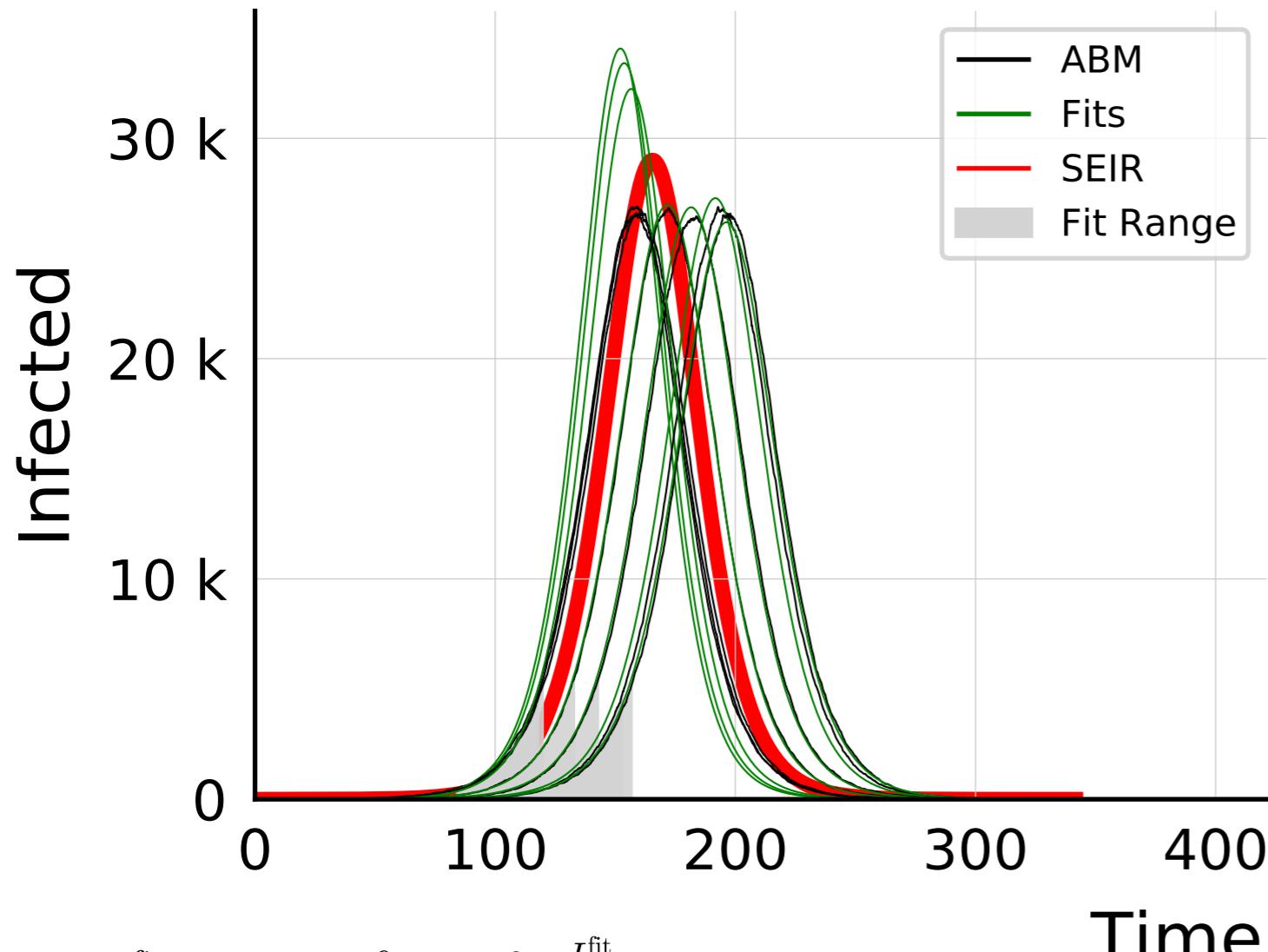
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 2.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



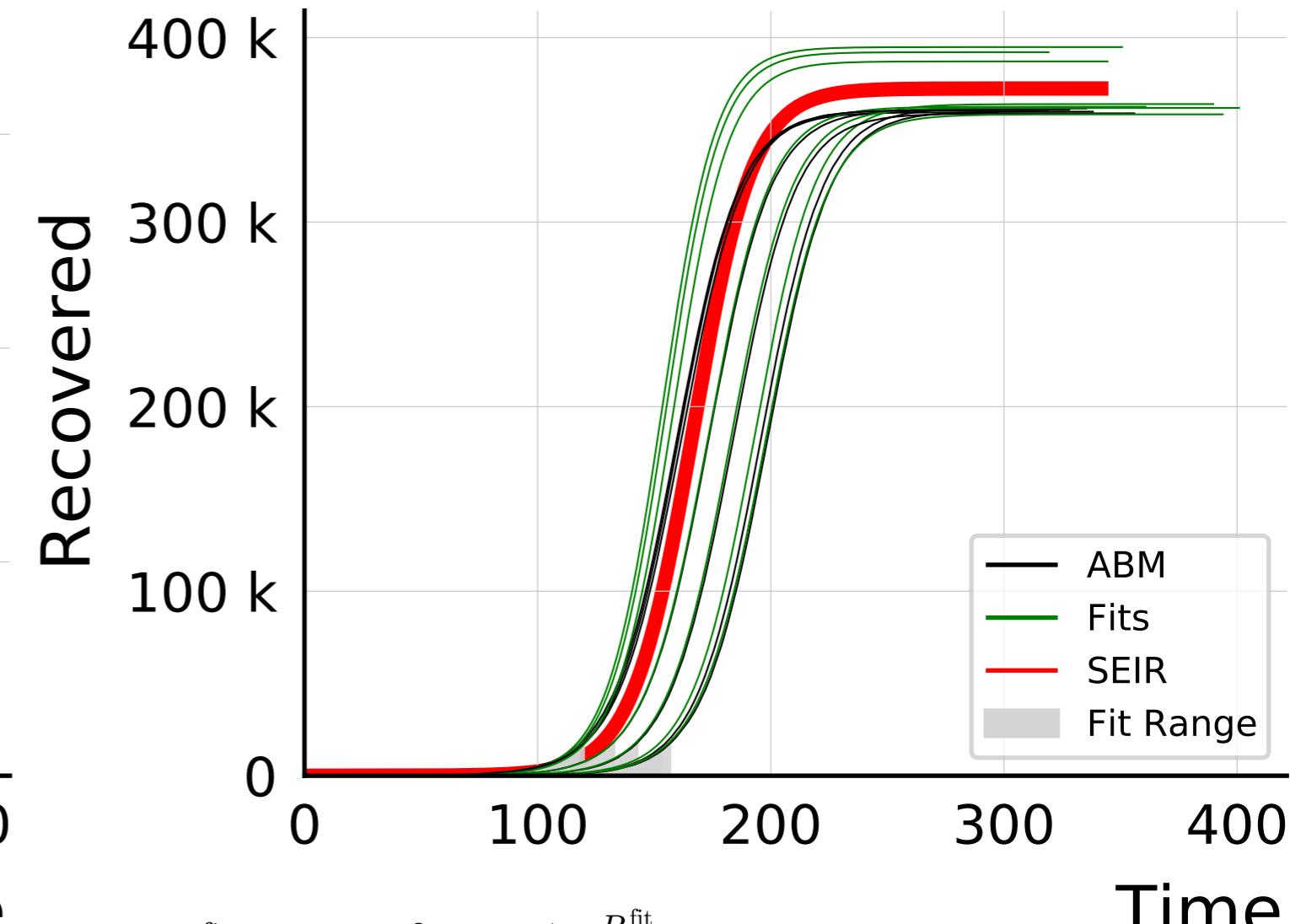
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 4.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 1$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #7

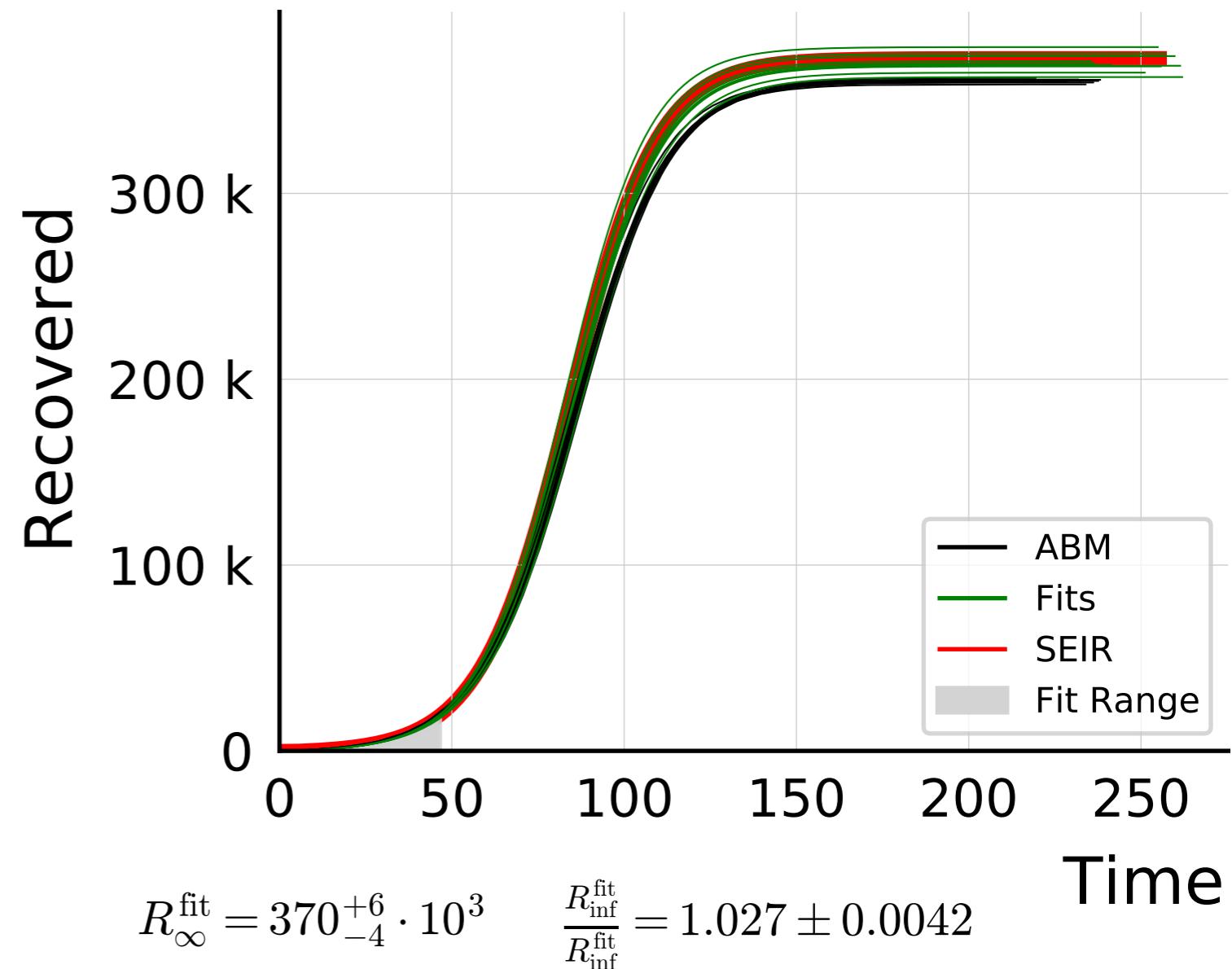
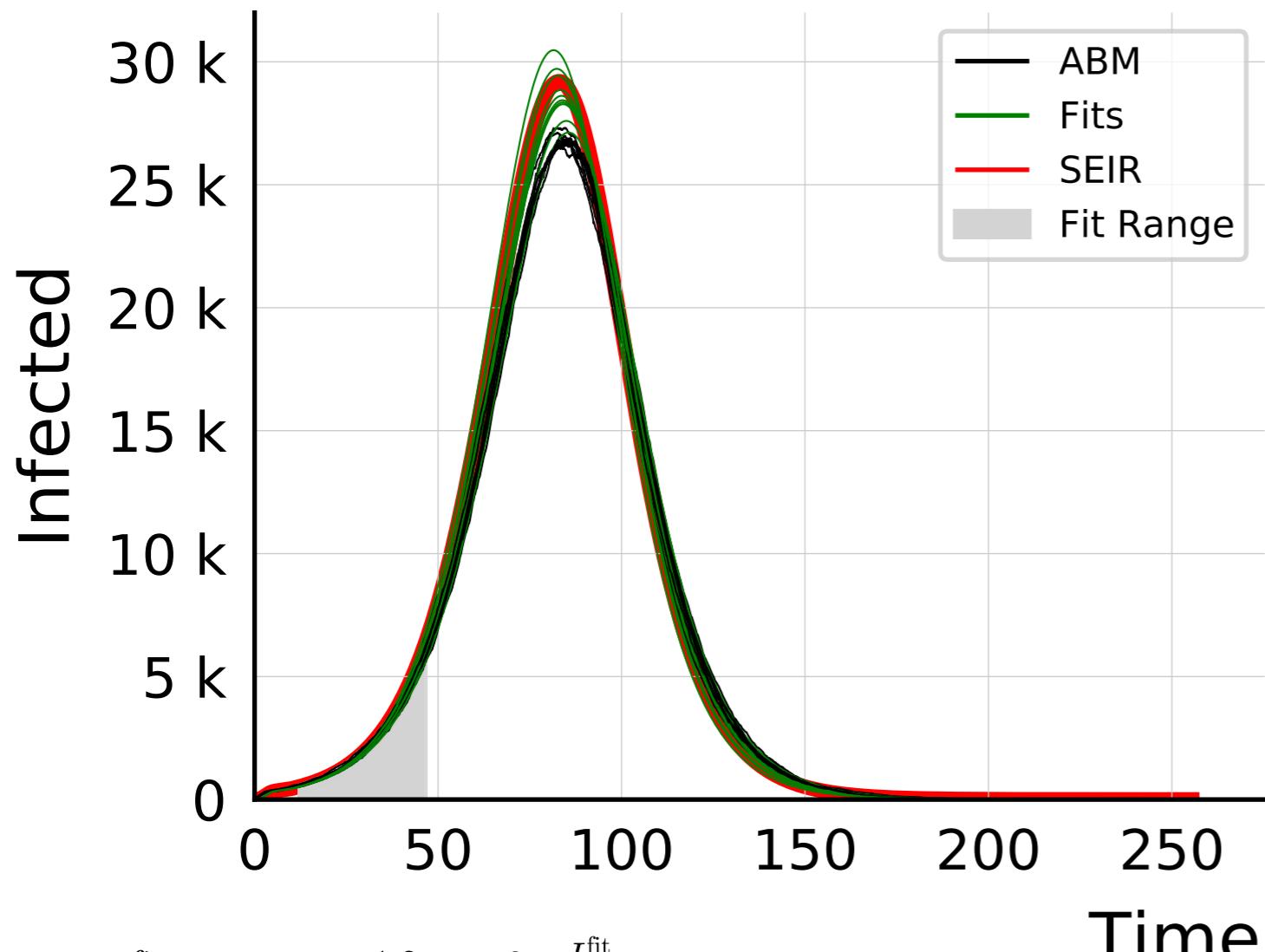


$$I_{\max}^{\text{fit}} = 27.3_{-0.7}^{+6} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.11 \pm 0.046$$

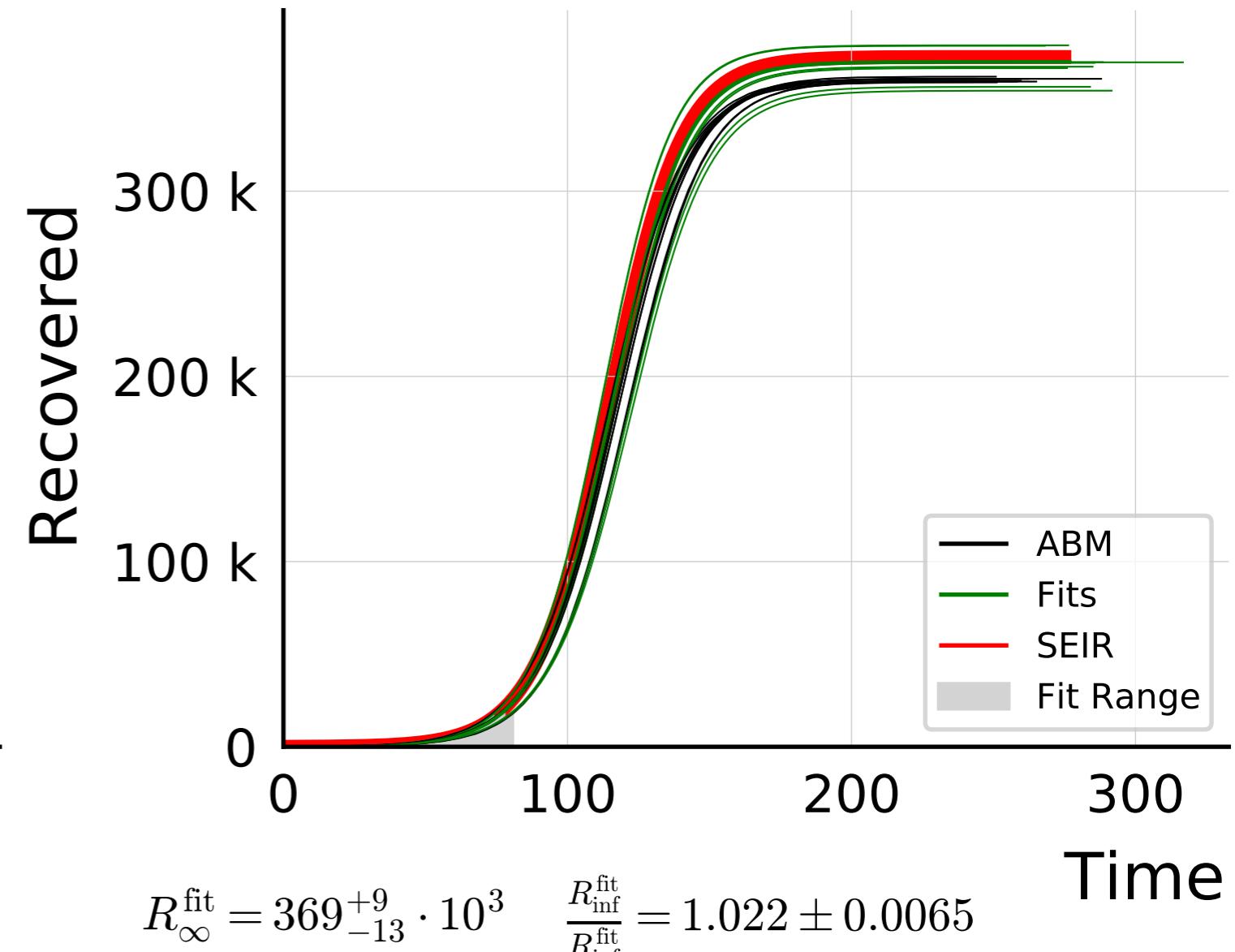
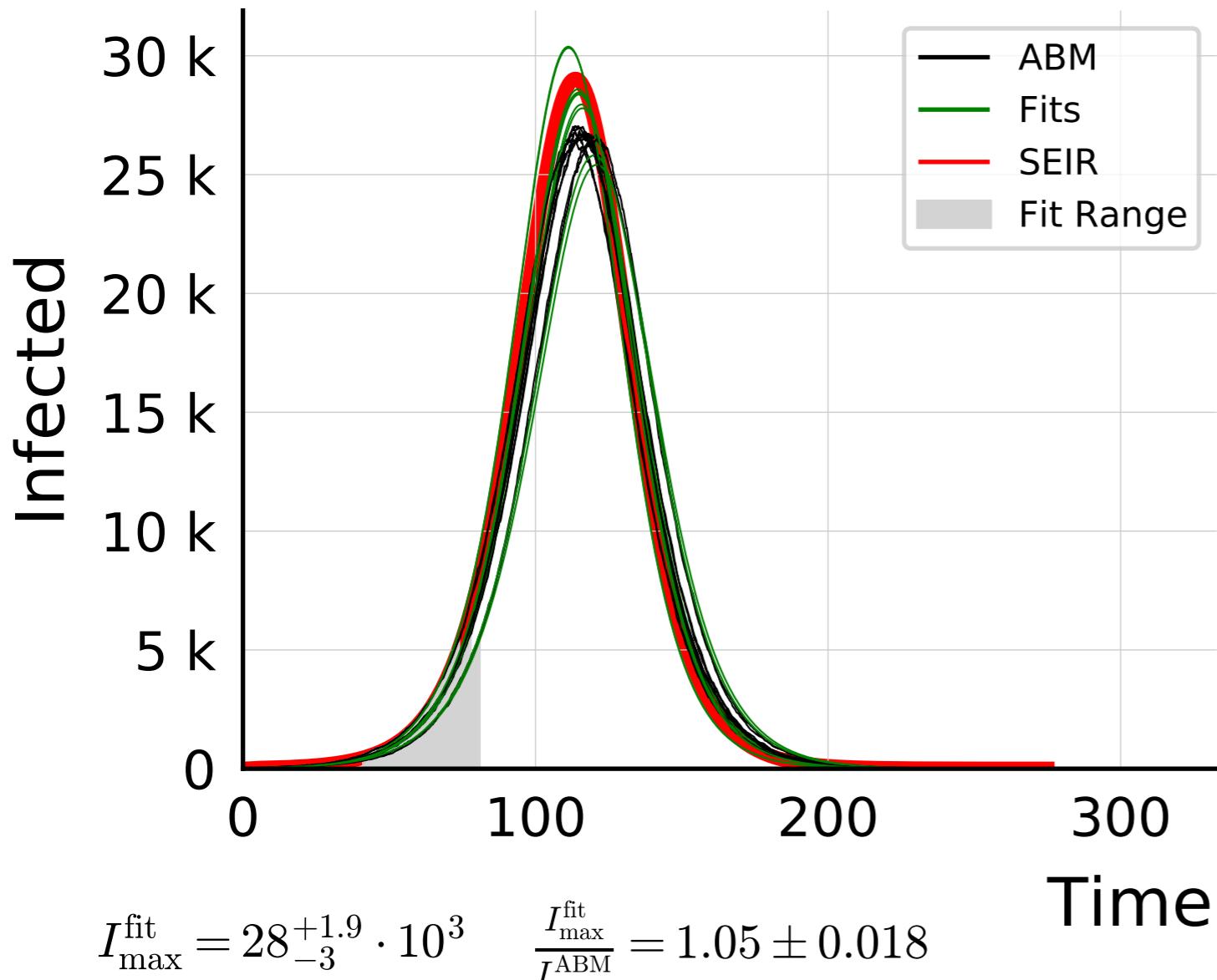


$$R_{\infty}^{\text{fit}} = 36.4_{-0.3}^{+3} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.04 \pm 0.016$$

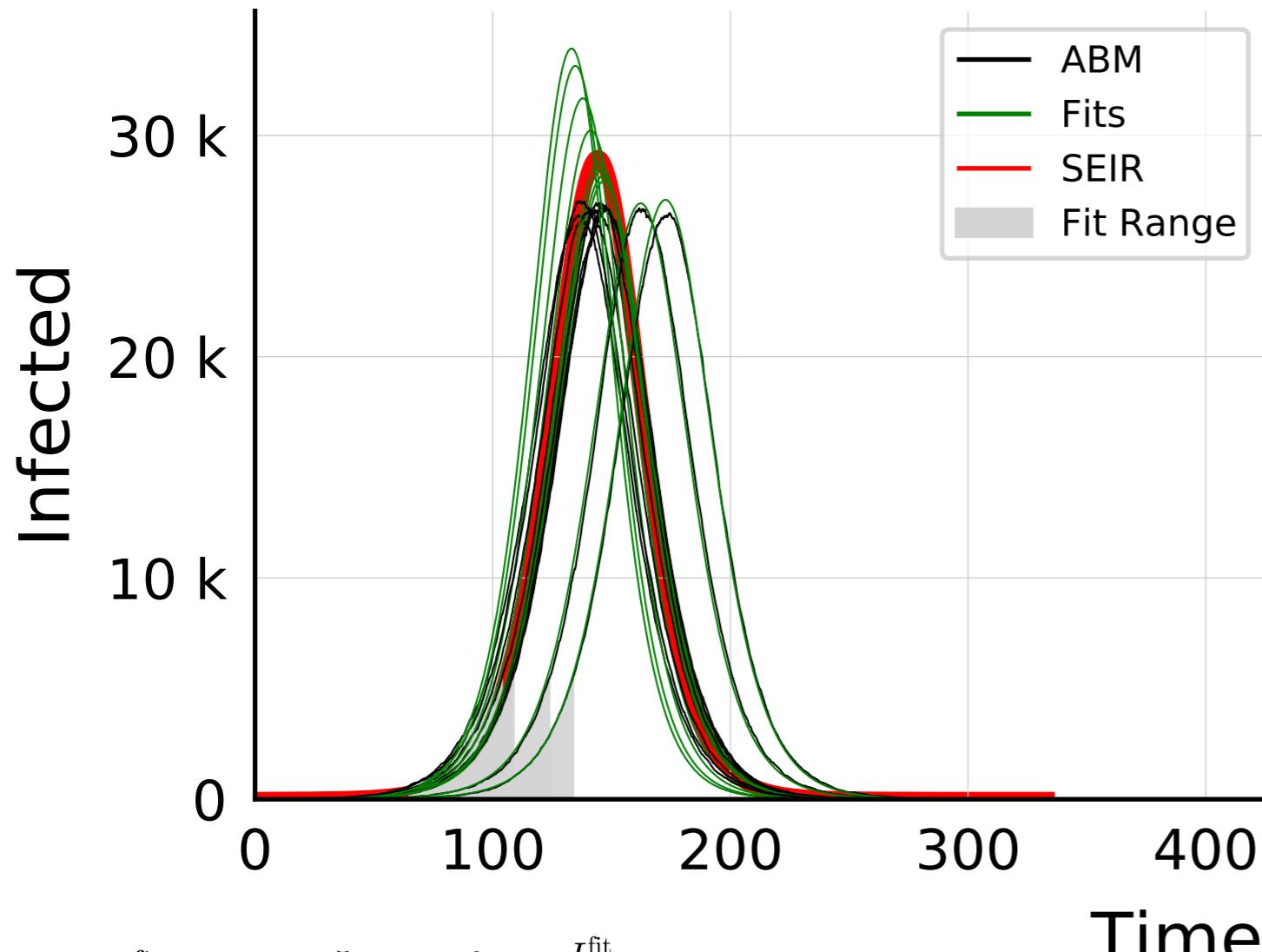
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 500$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



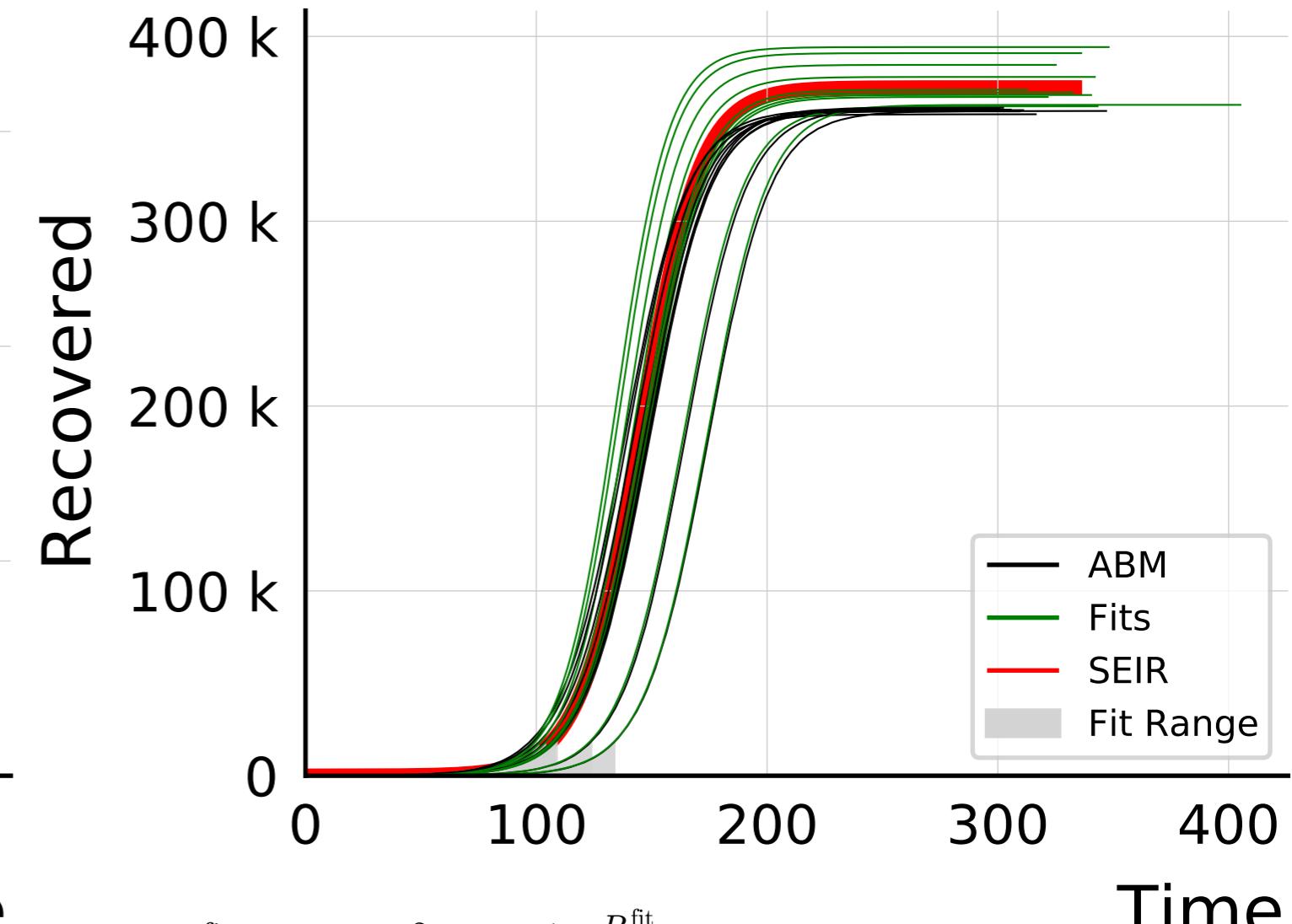
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 50$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 5$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

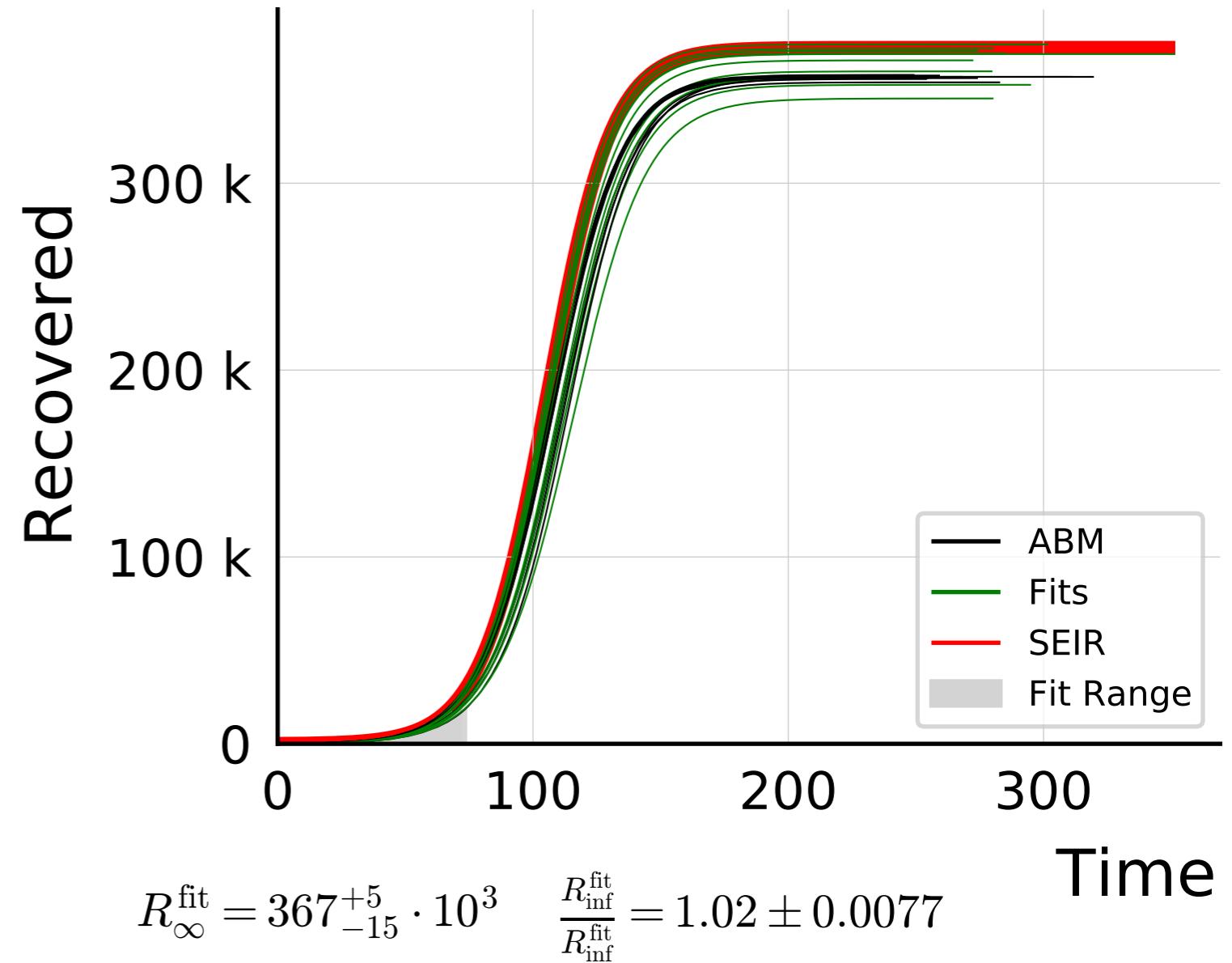
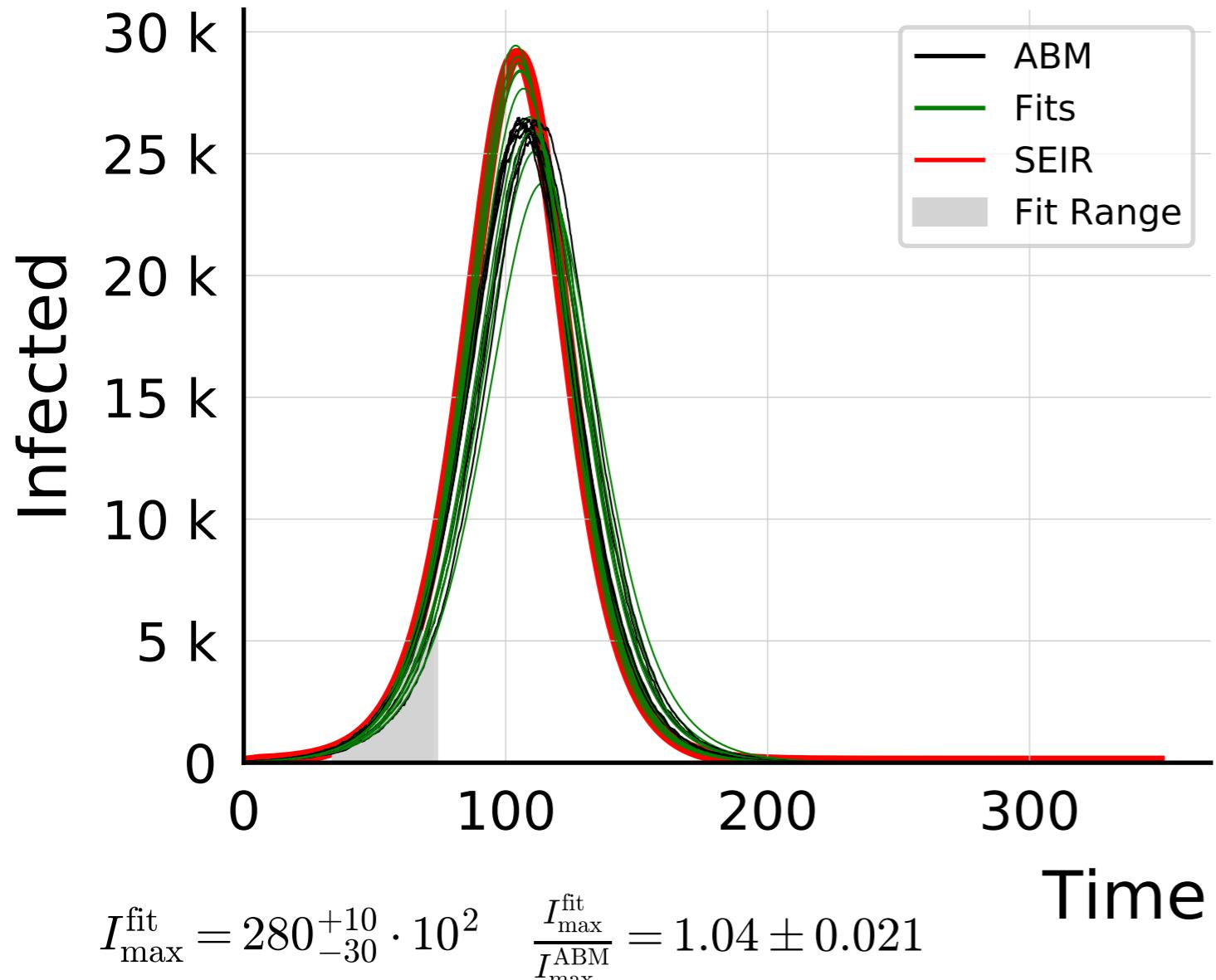


$$I_{\max}^{\text{fit}} = 29_{-1.3}^{+5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.11 \pm 0.028$$

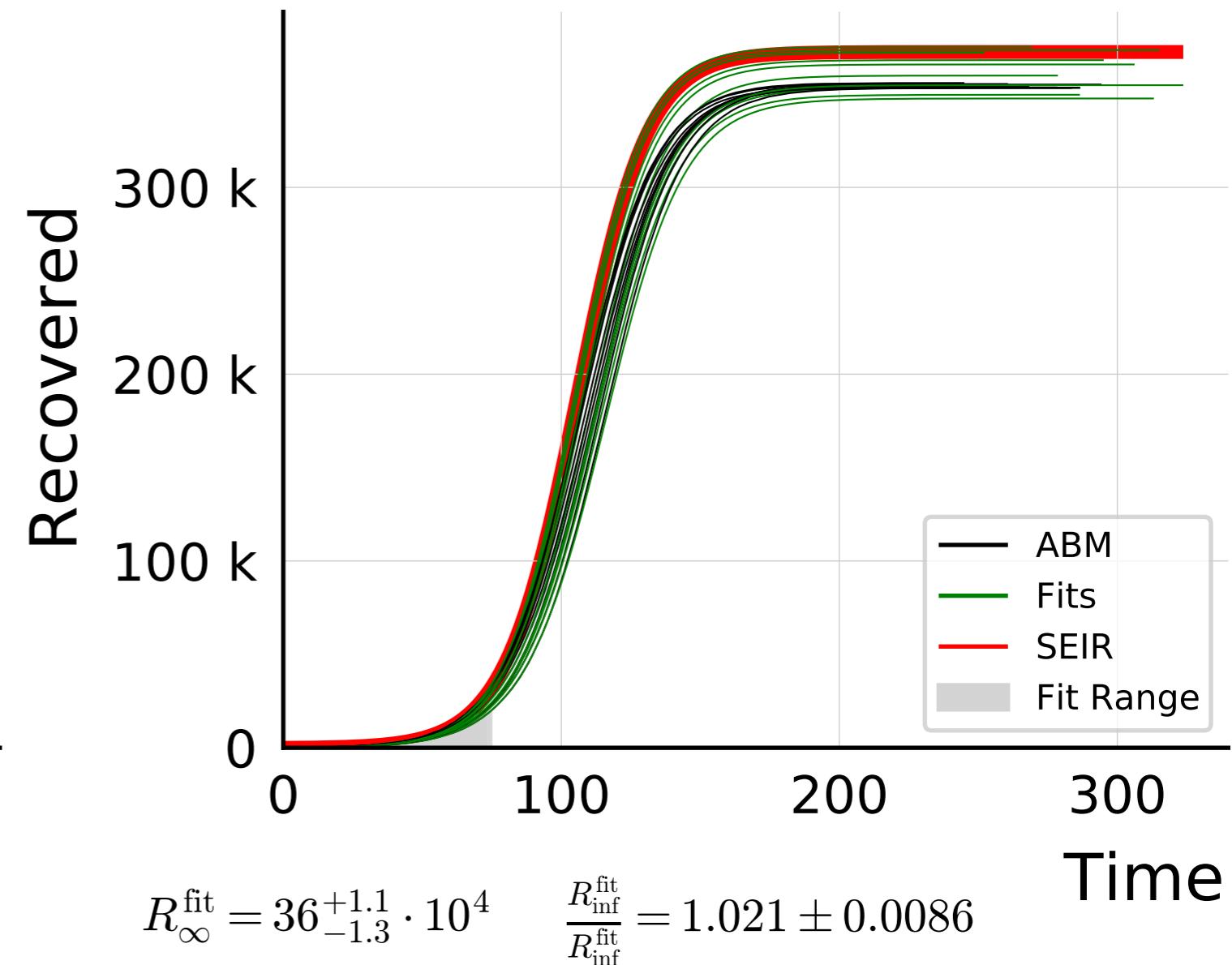
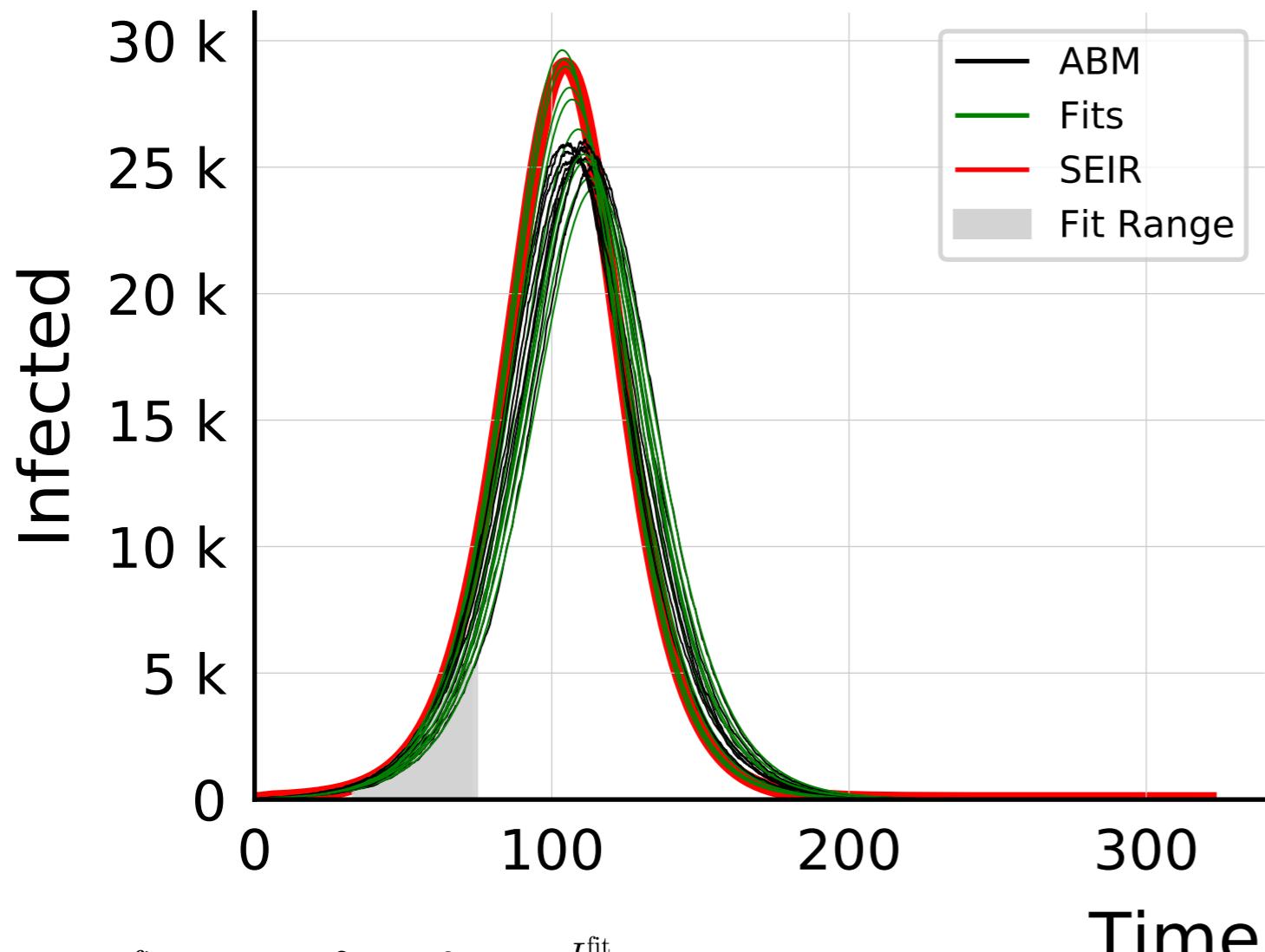


$$R_{\infty}^{\text{fit}} = 37.0_{-0.7}^{+2} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.04 \pm 0.010$$

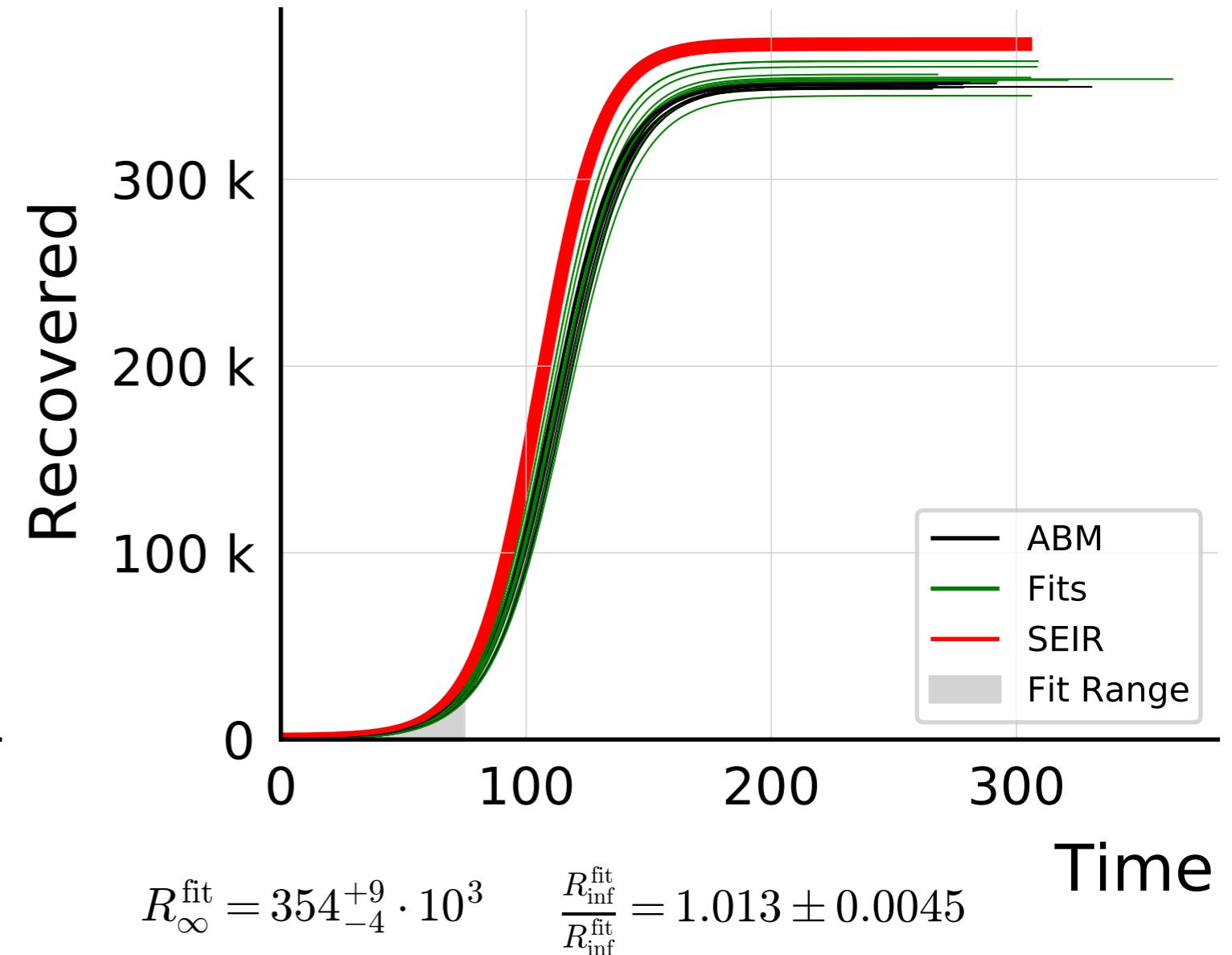
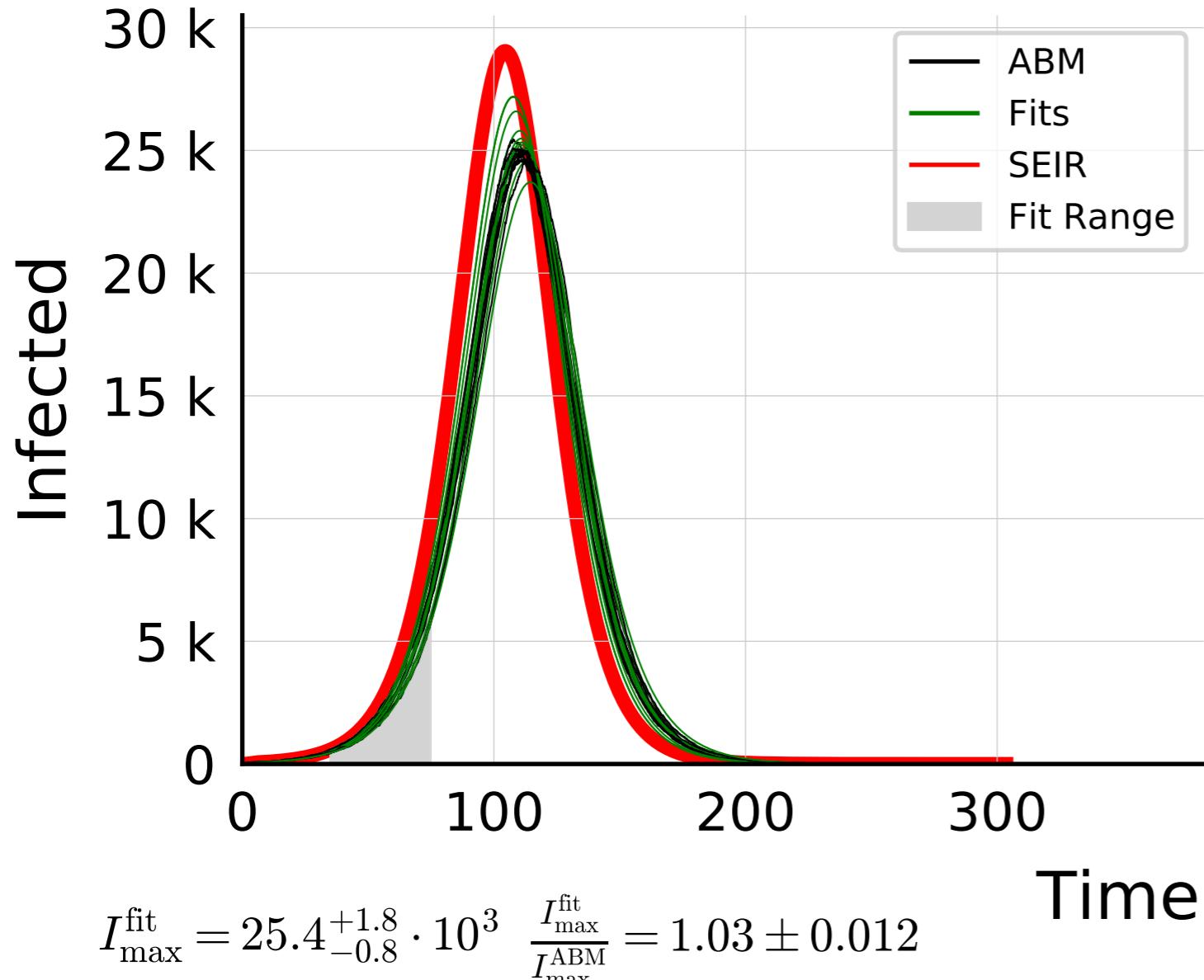
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.25$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



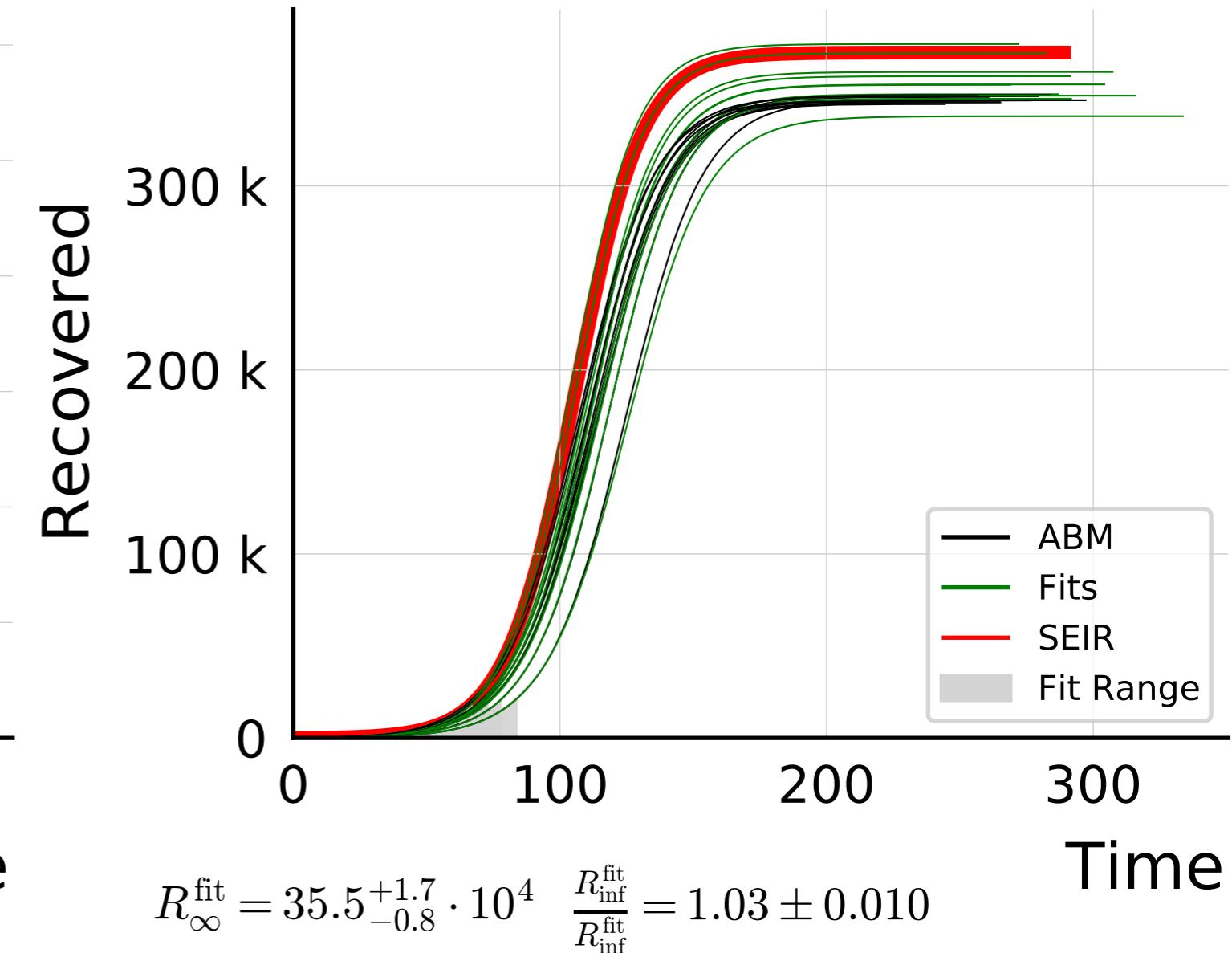
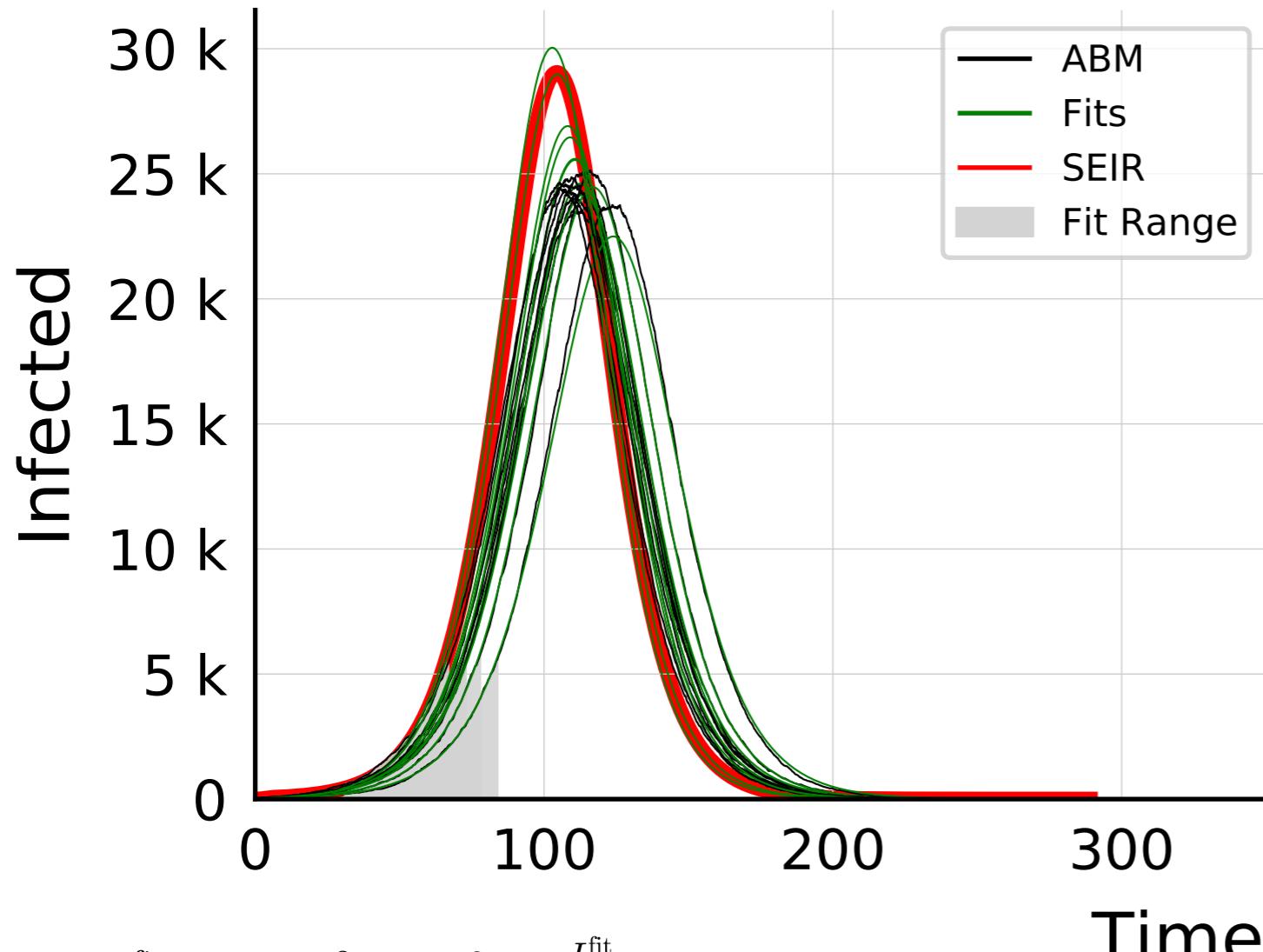
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.5$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



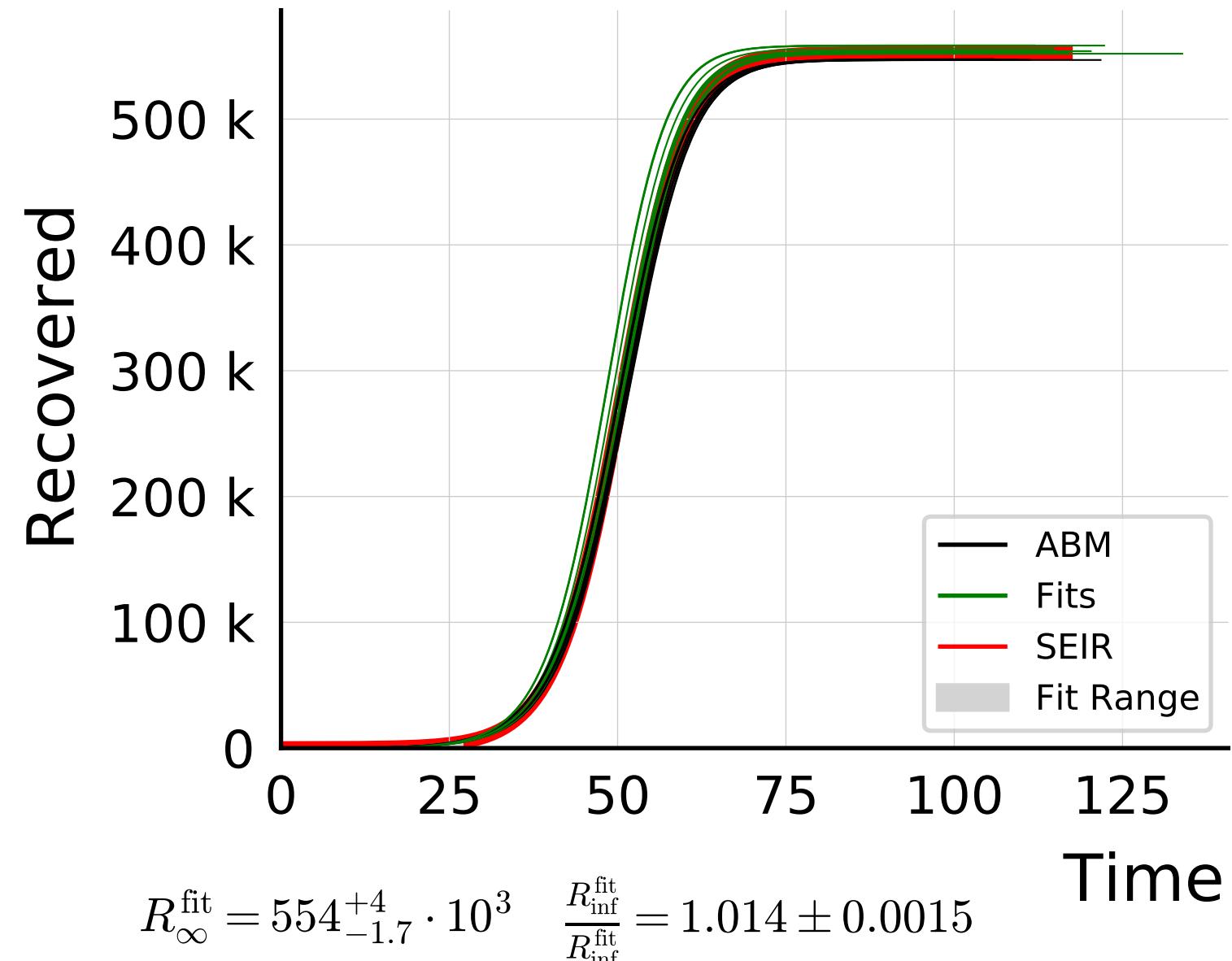
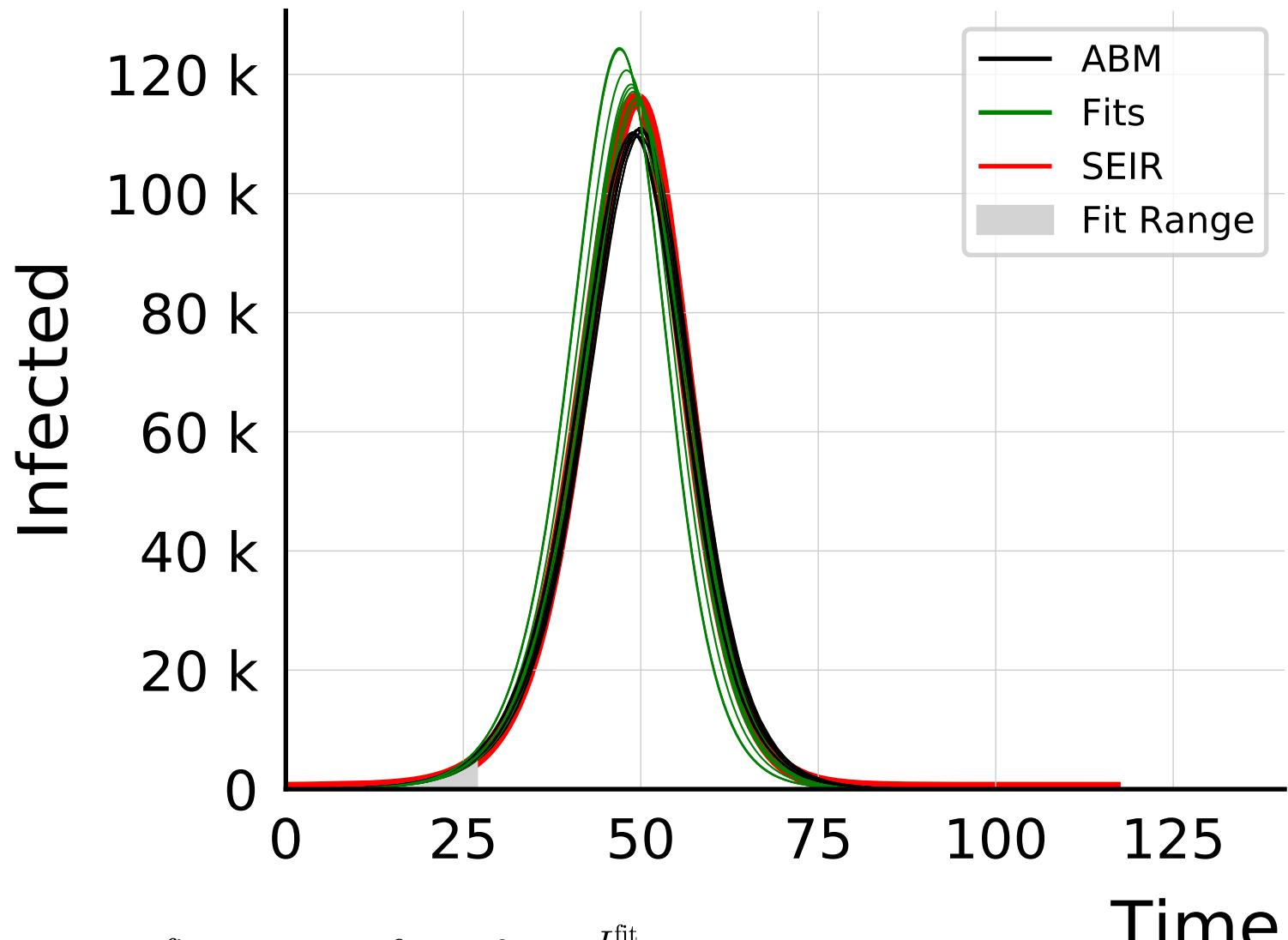
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.75$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



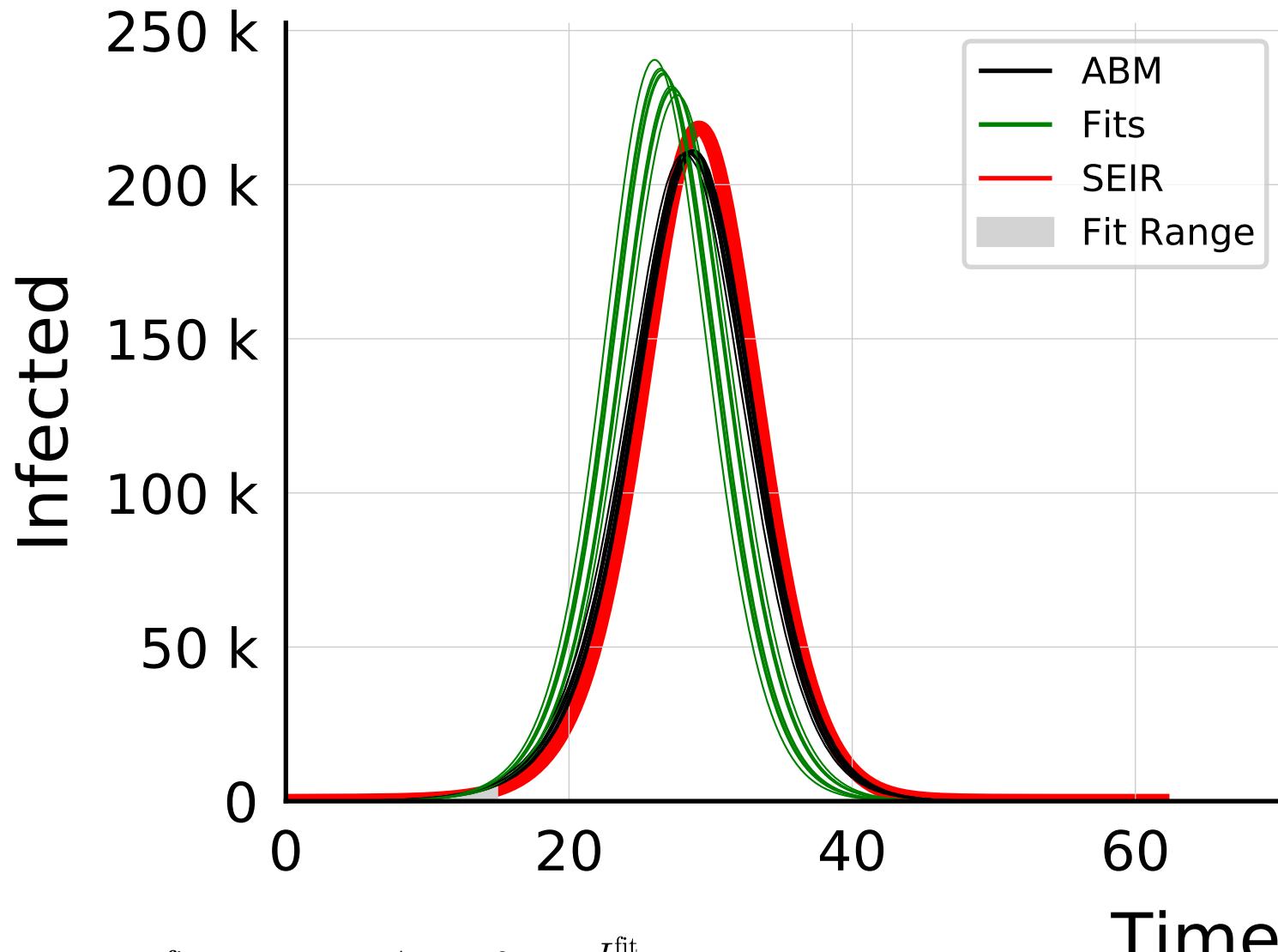
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



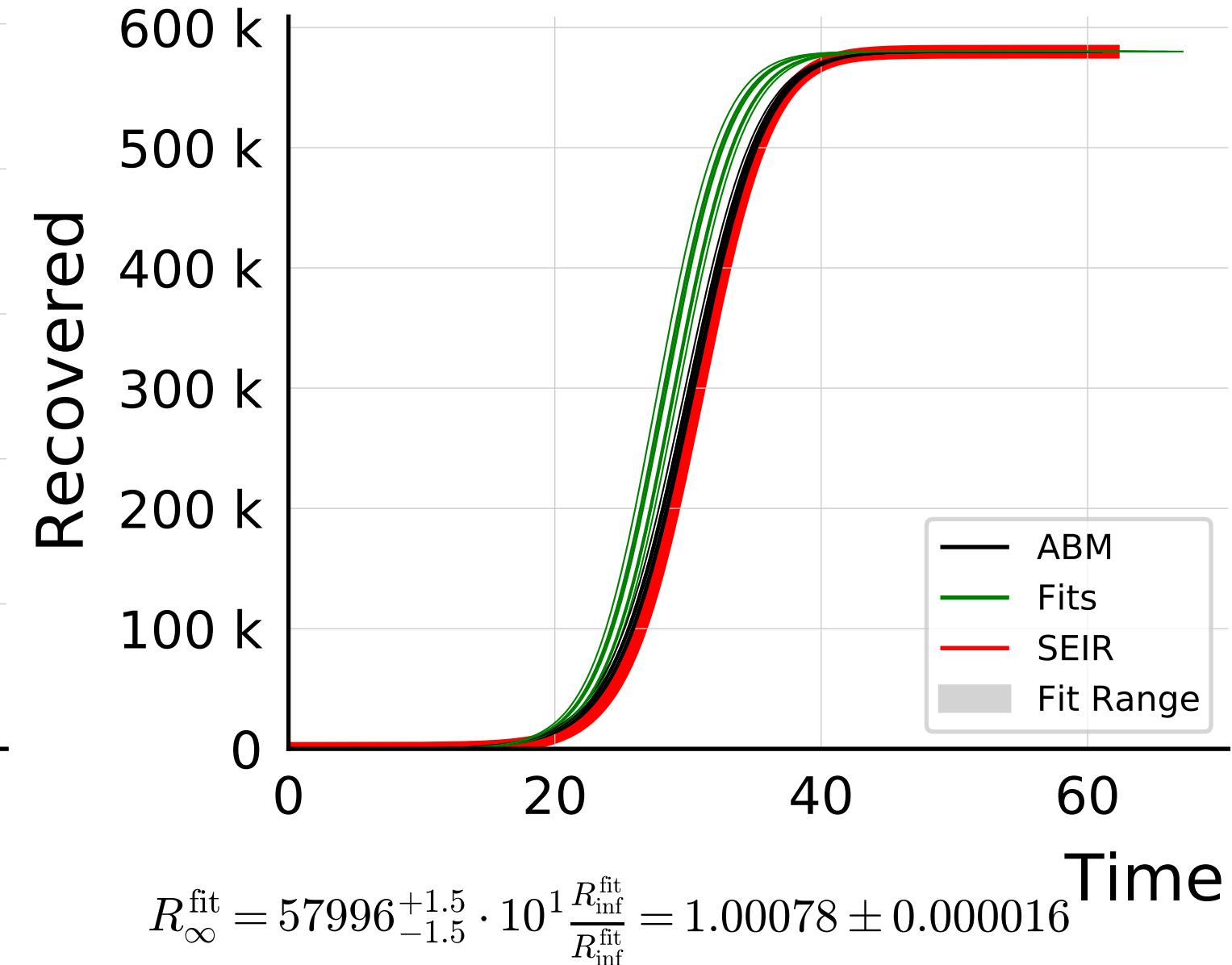
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



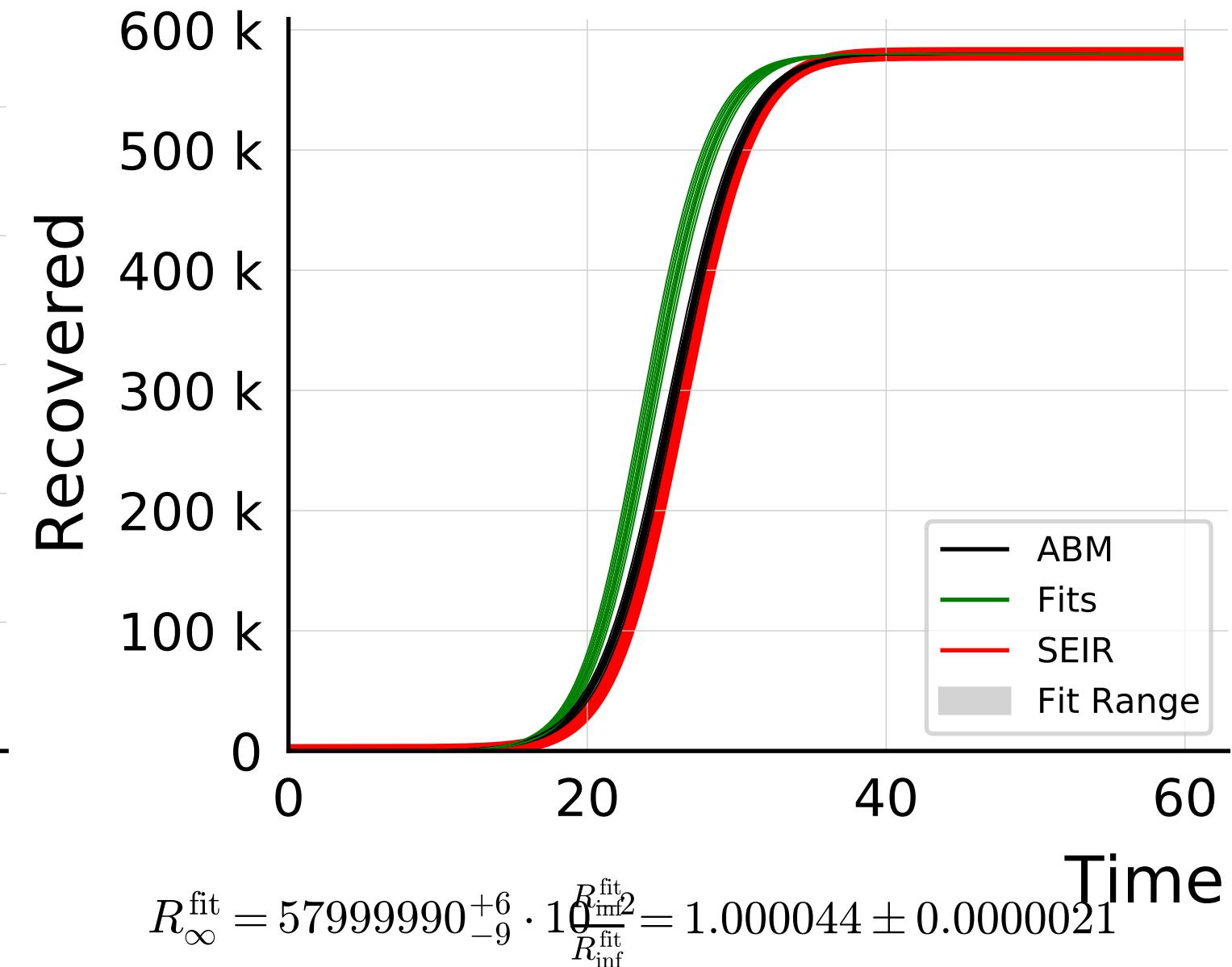
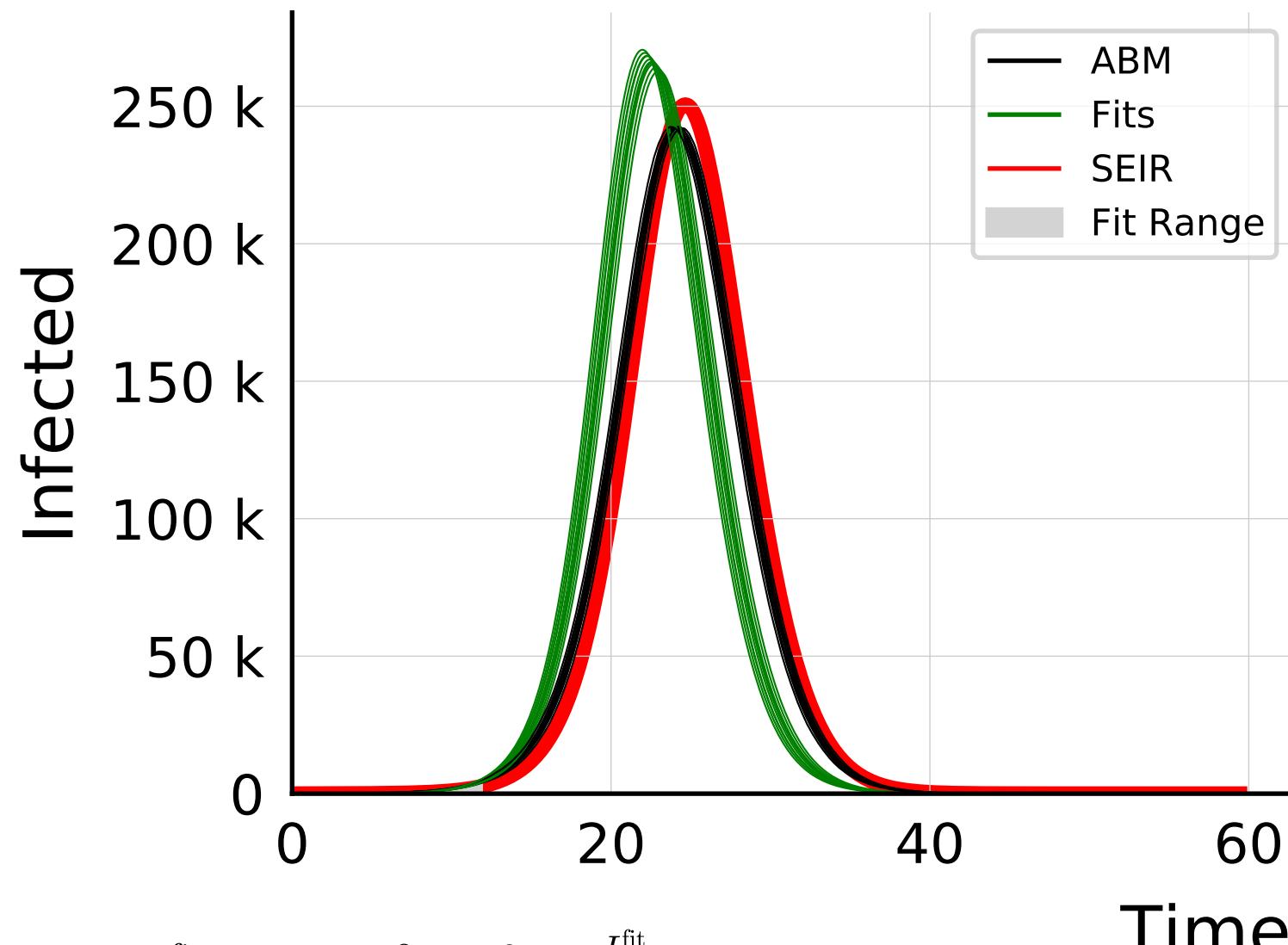
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.05$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



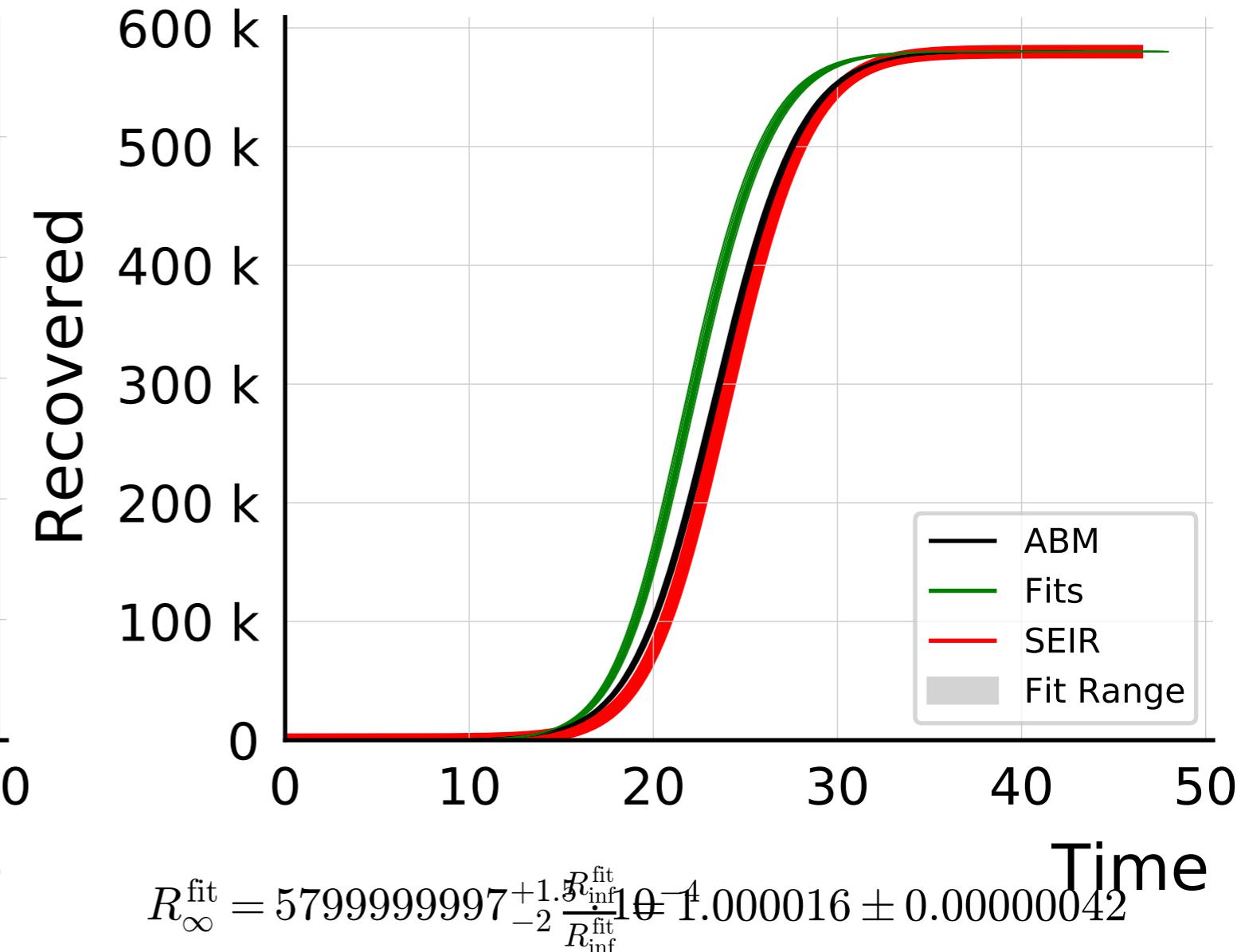
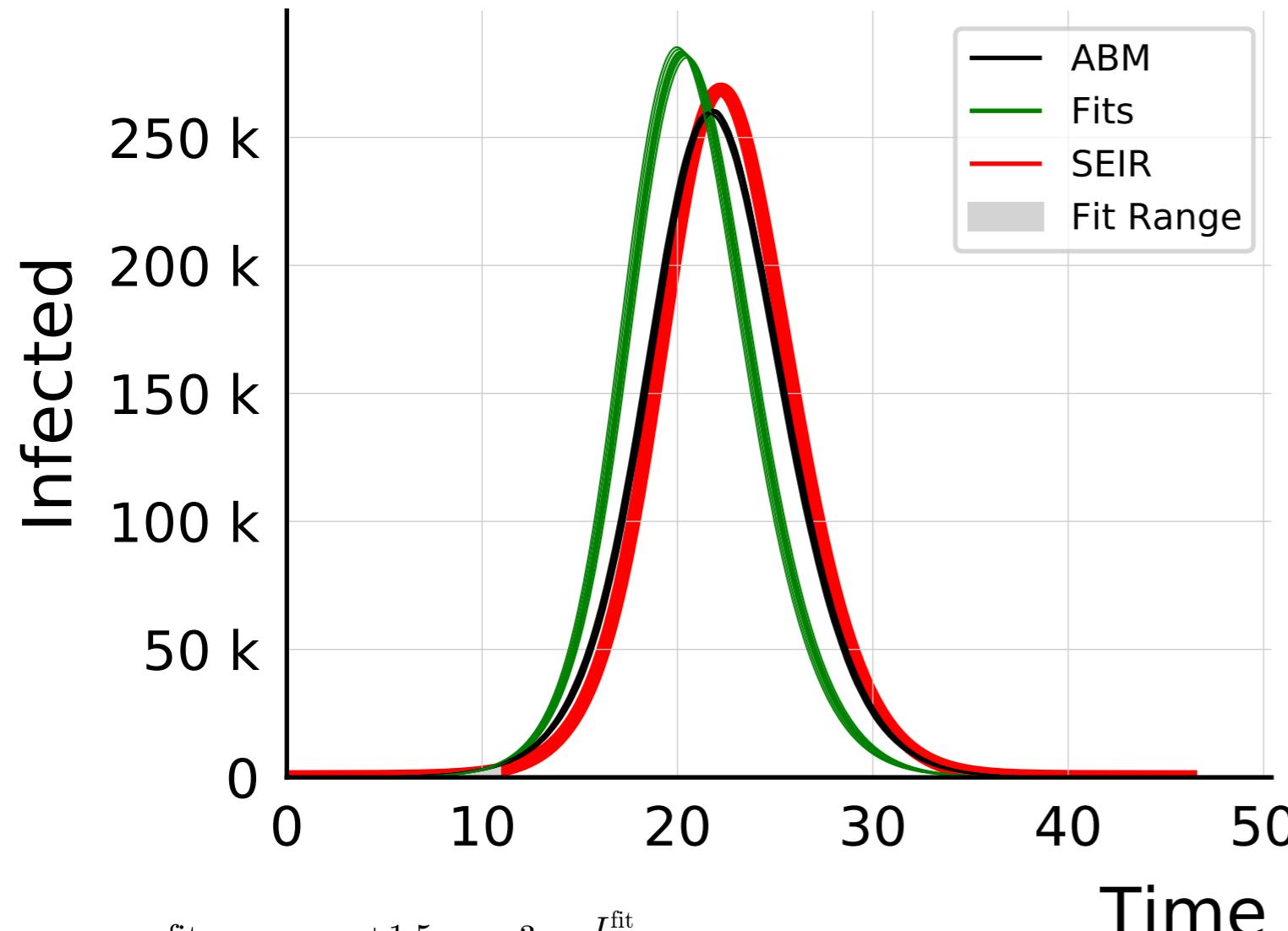
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.111 \pm 0.0058$$



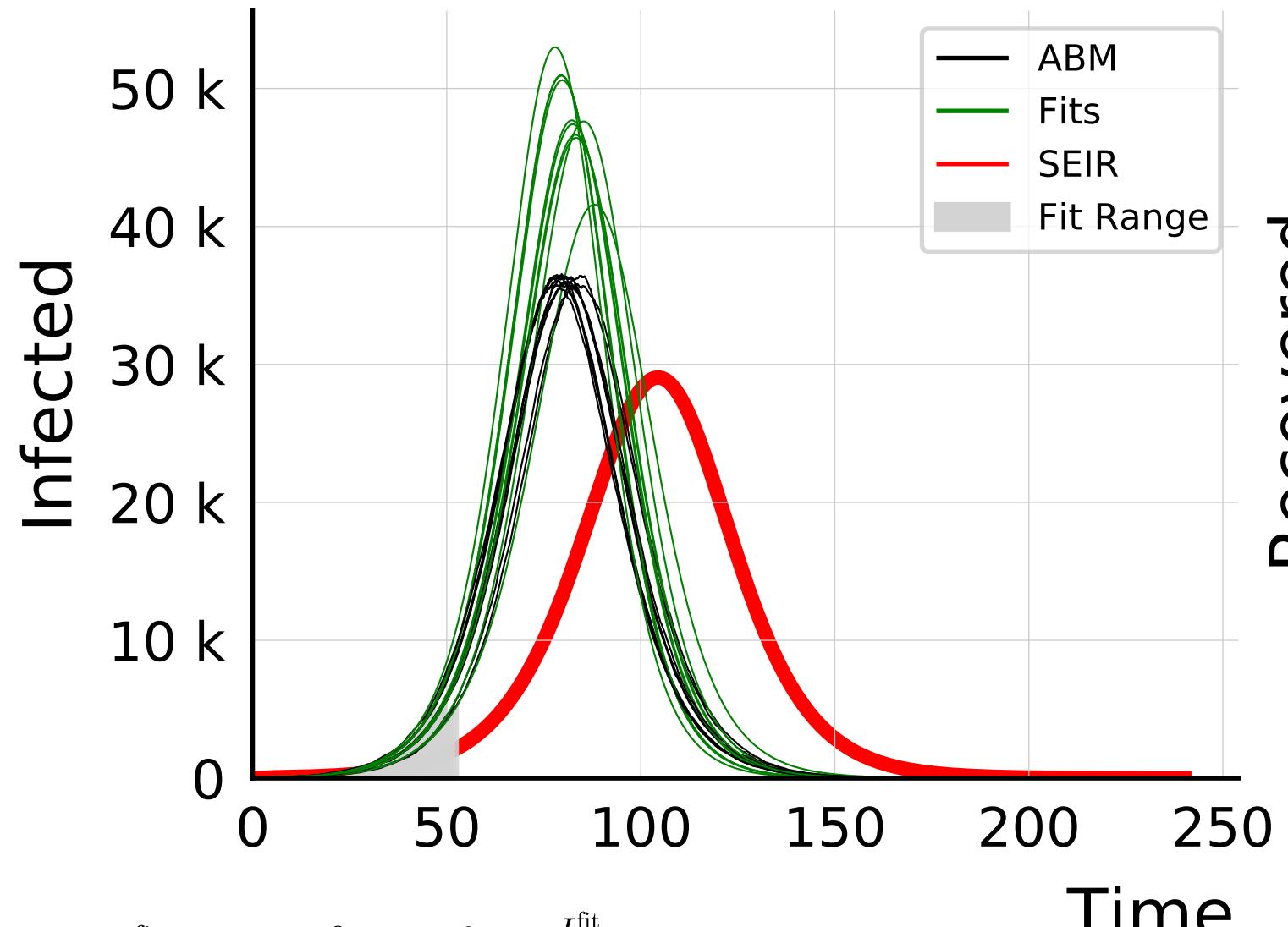
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.075$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.1$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #8

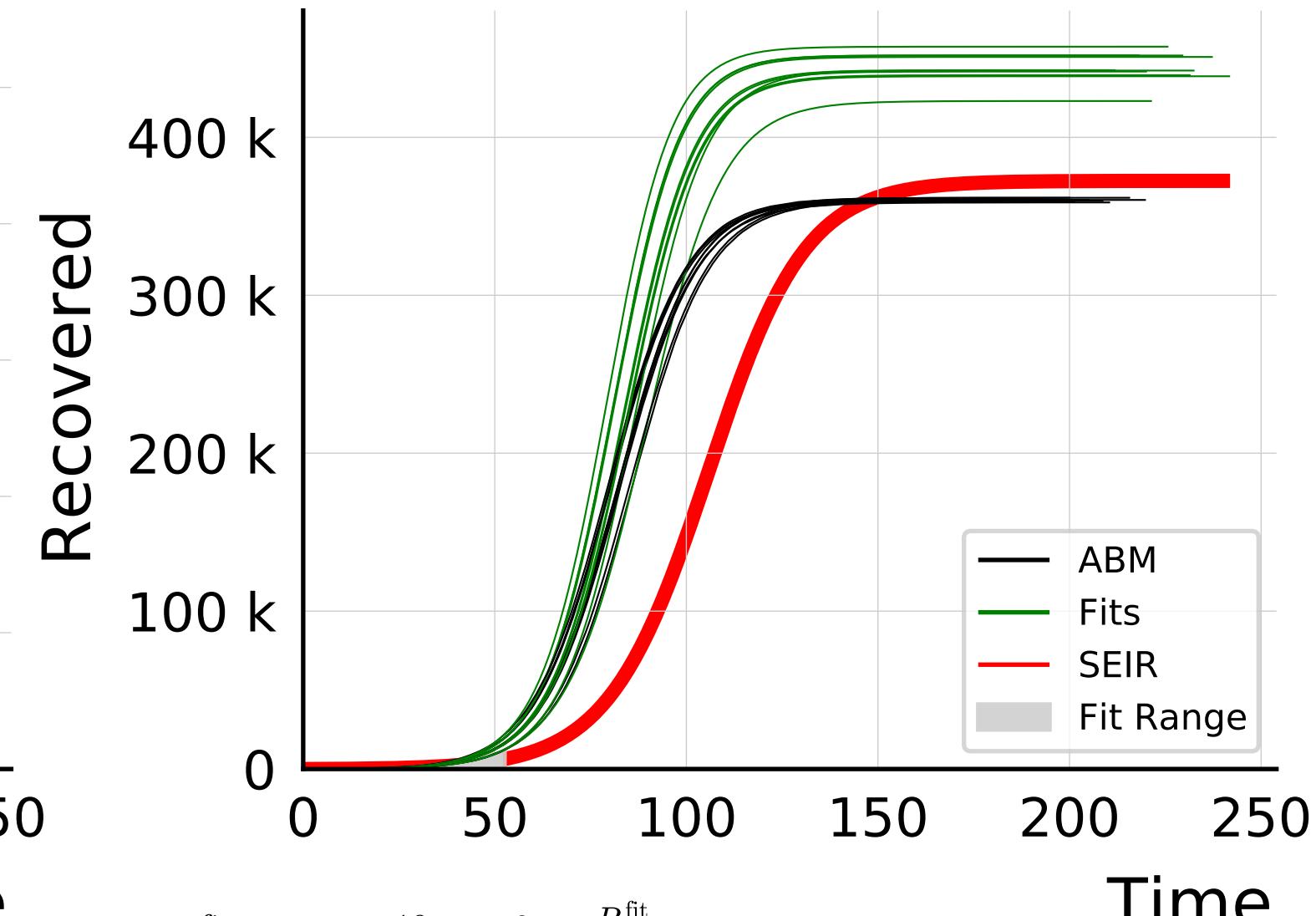


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 48_{-1.3}^{+3} \cdot 10^3$$

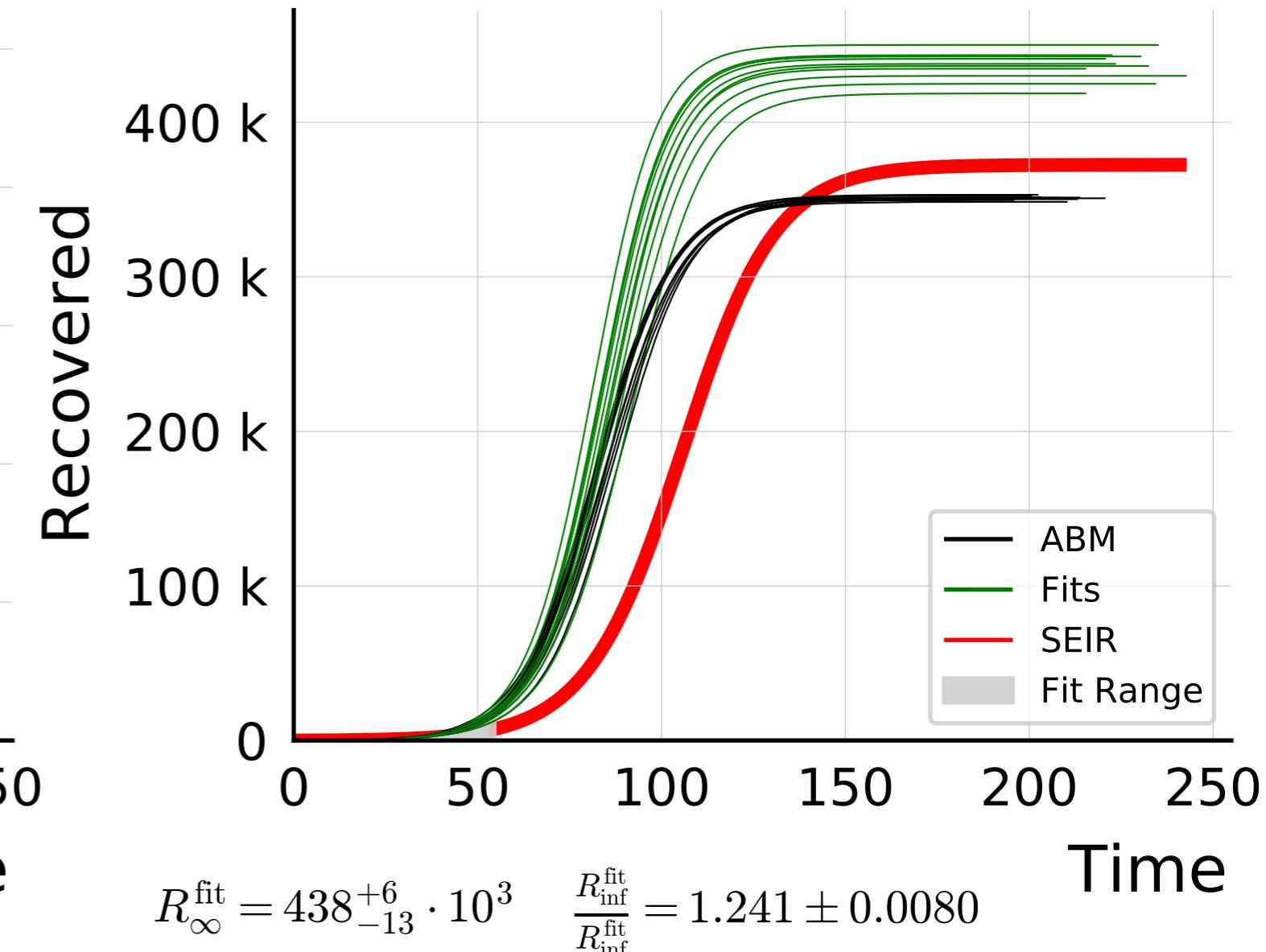
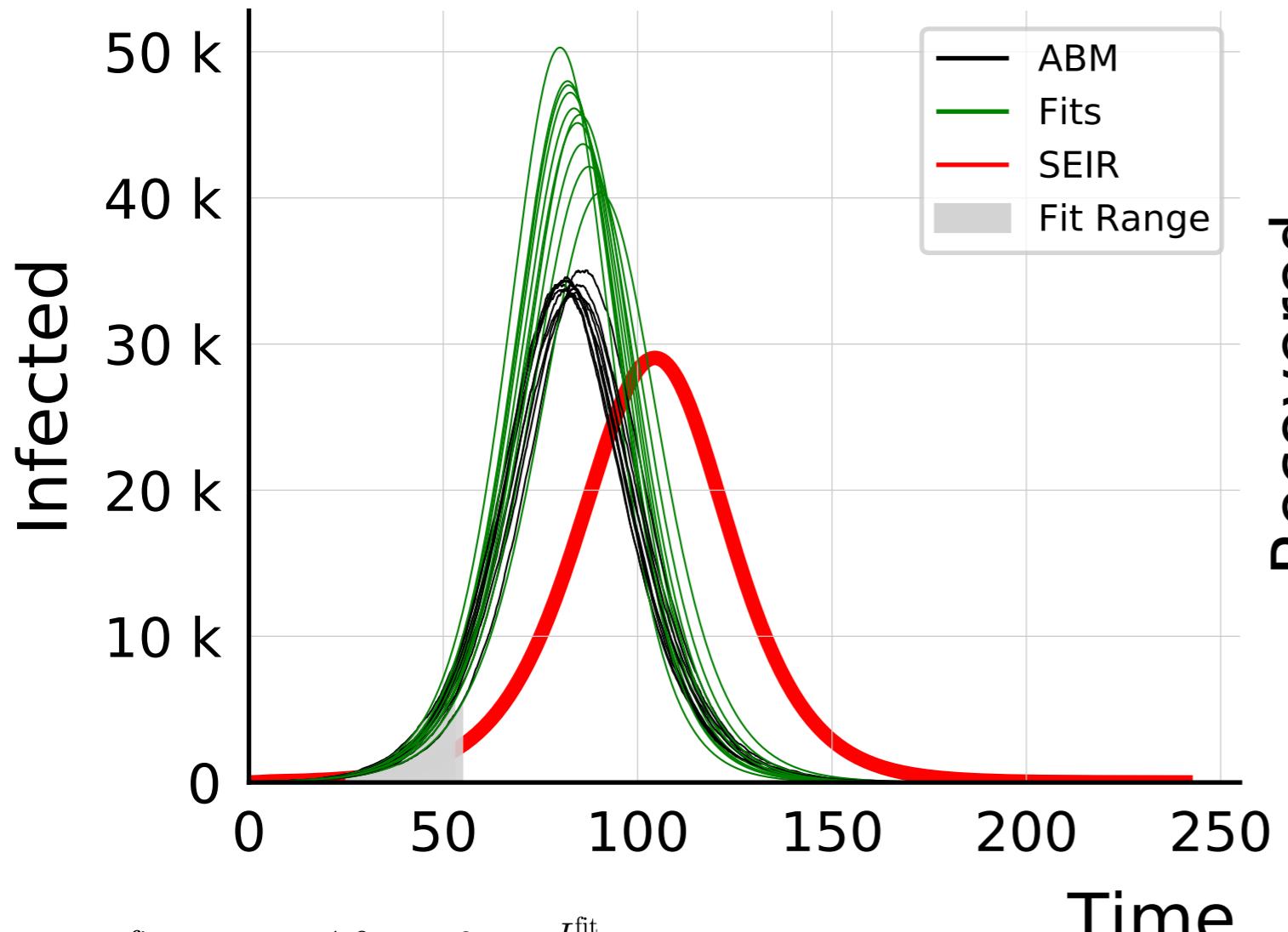
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.33 \pm 0.028$$



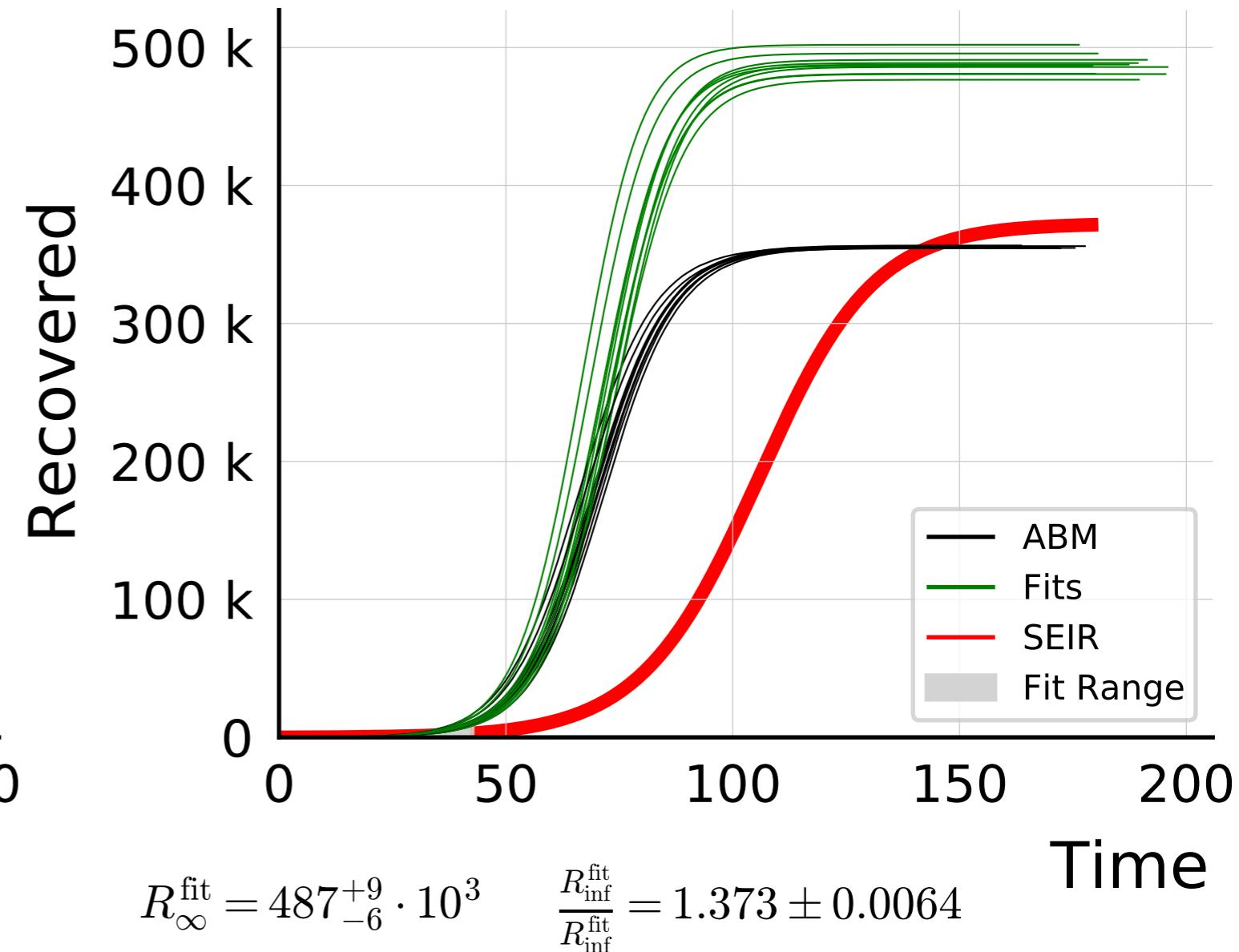
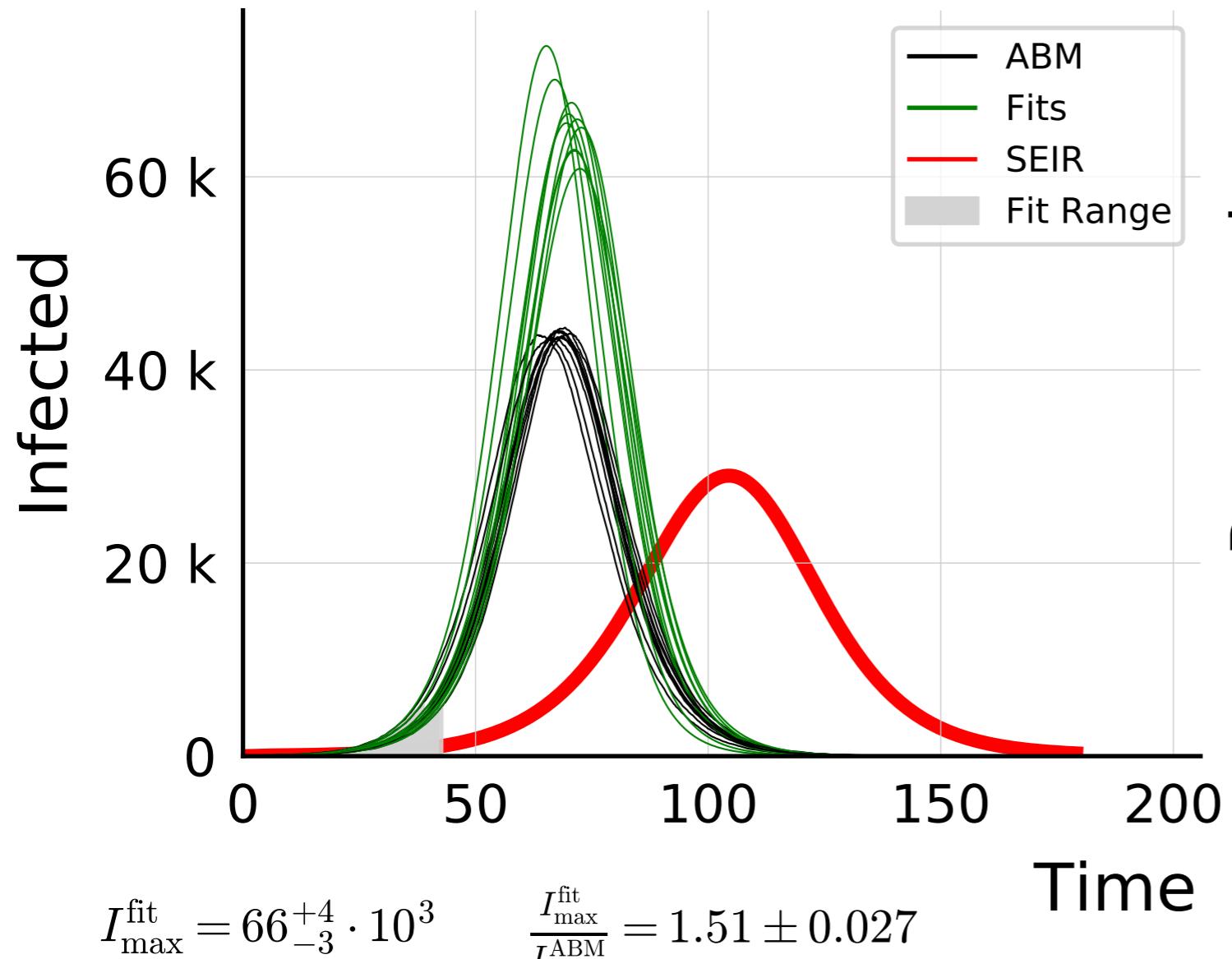
$$R_{\infty}^{\text{fit}} = 443_{-4}^{+10} \cdot 10^3$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.232 \pm 0.0078$$

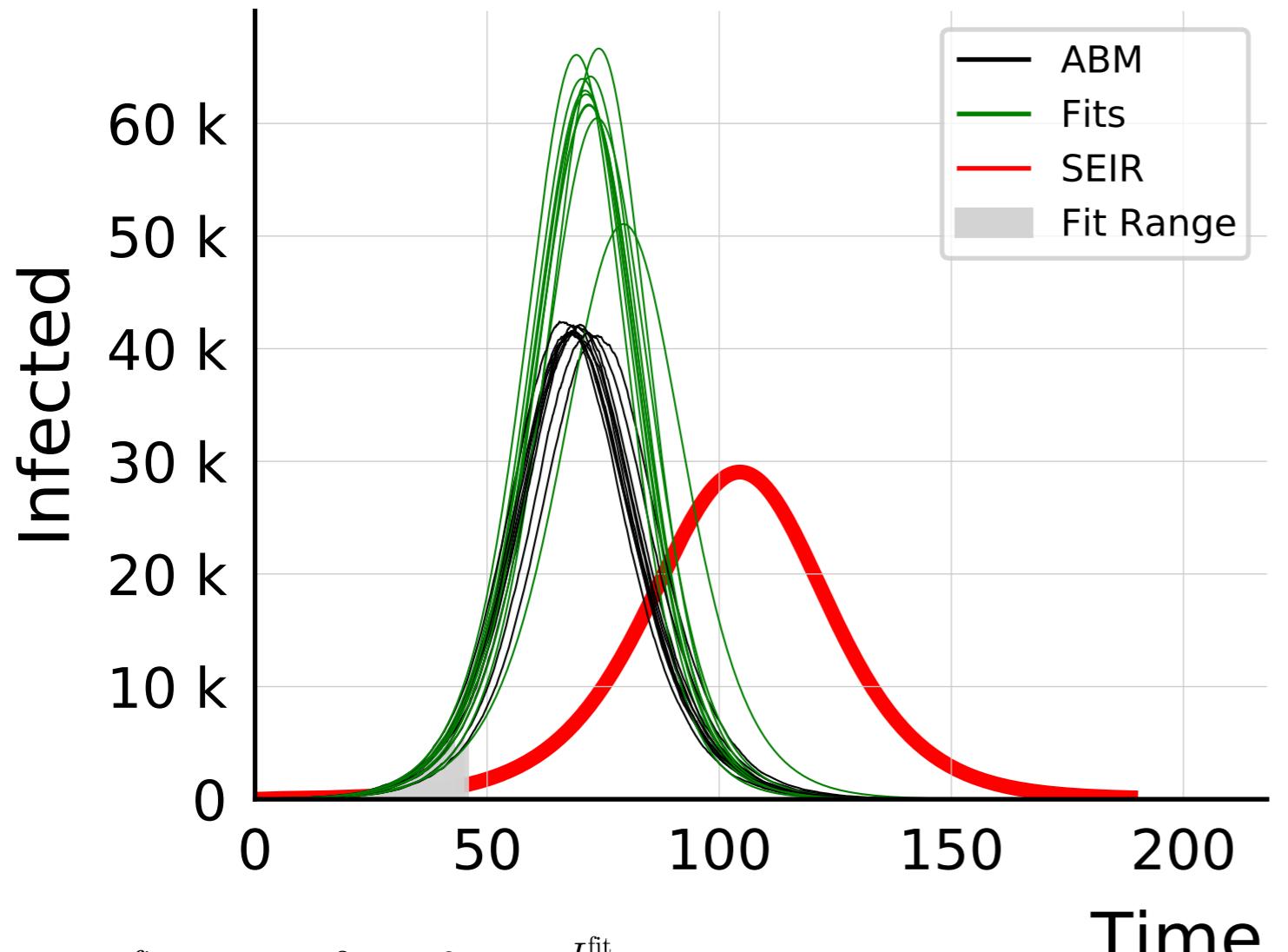
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.5$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

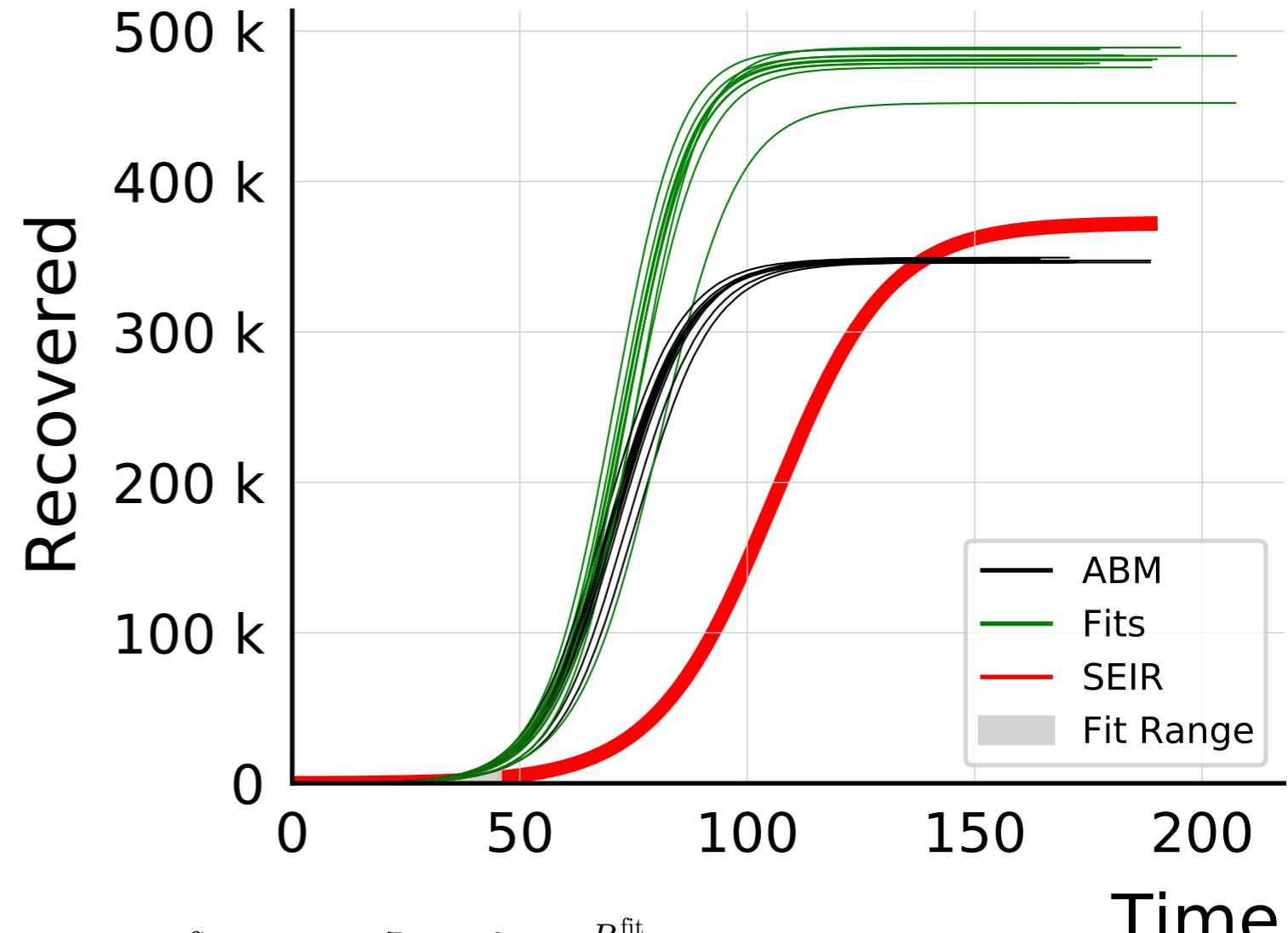


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.5$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 63^{+3}_{-2} \cdot 10^3$$

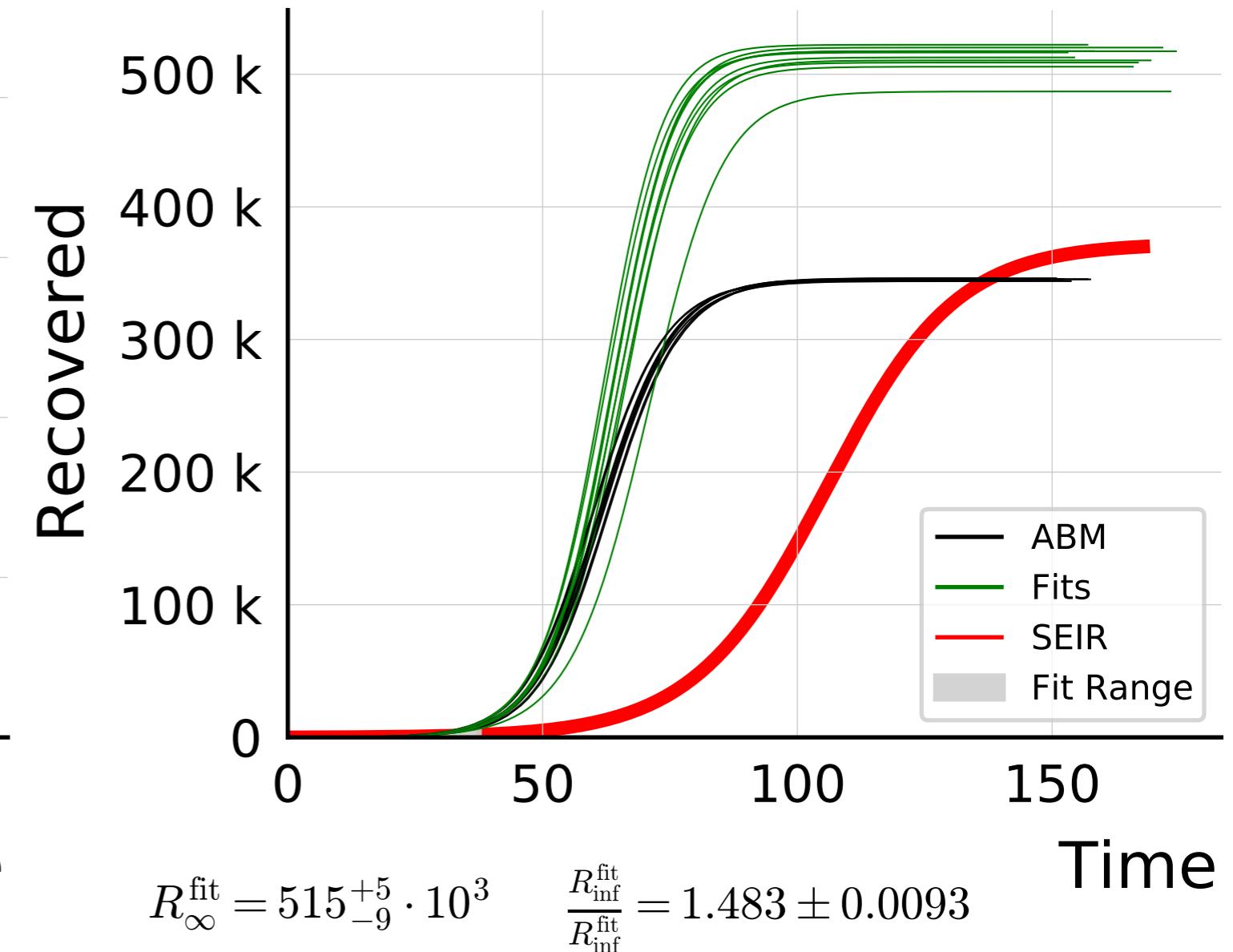
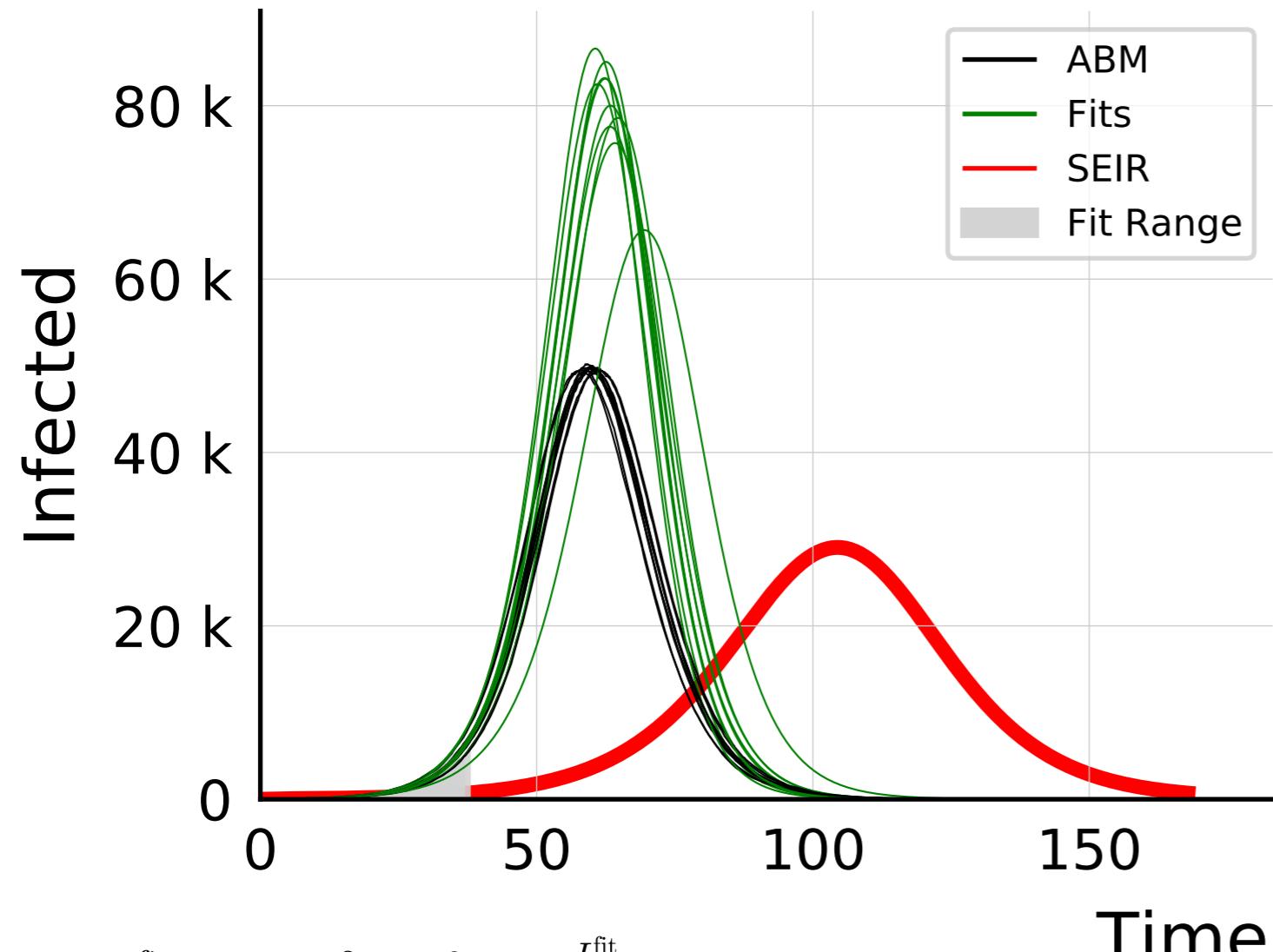
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.49 \pm 0.030$$



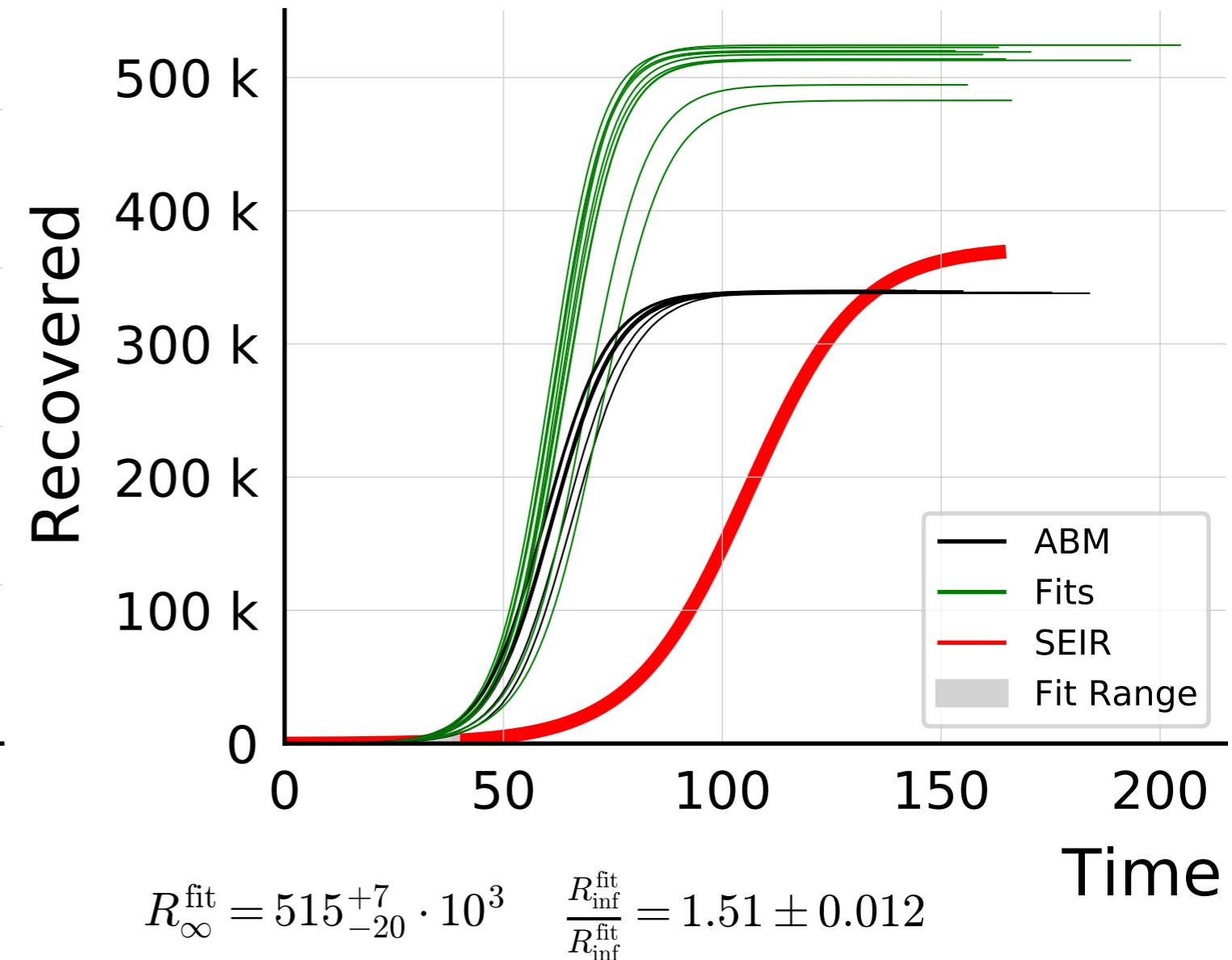
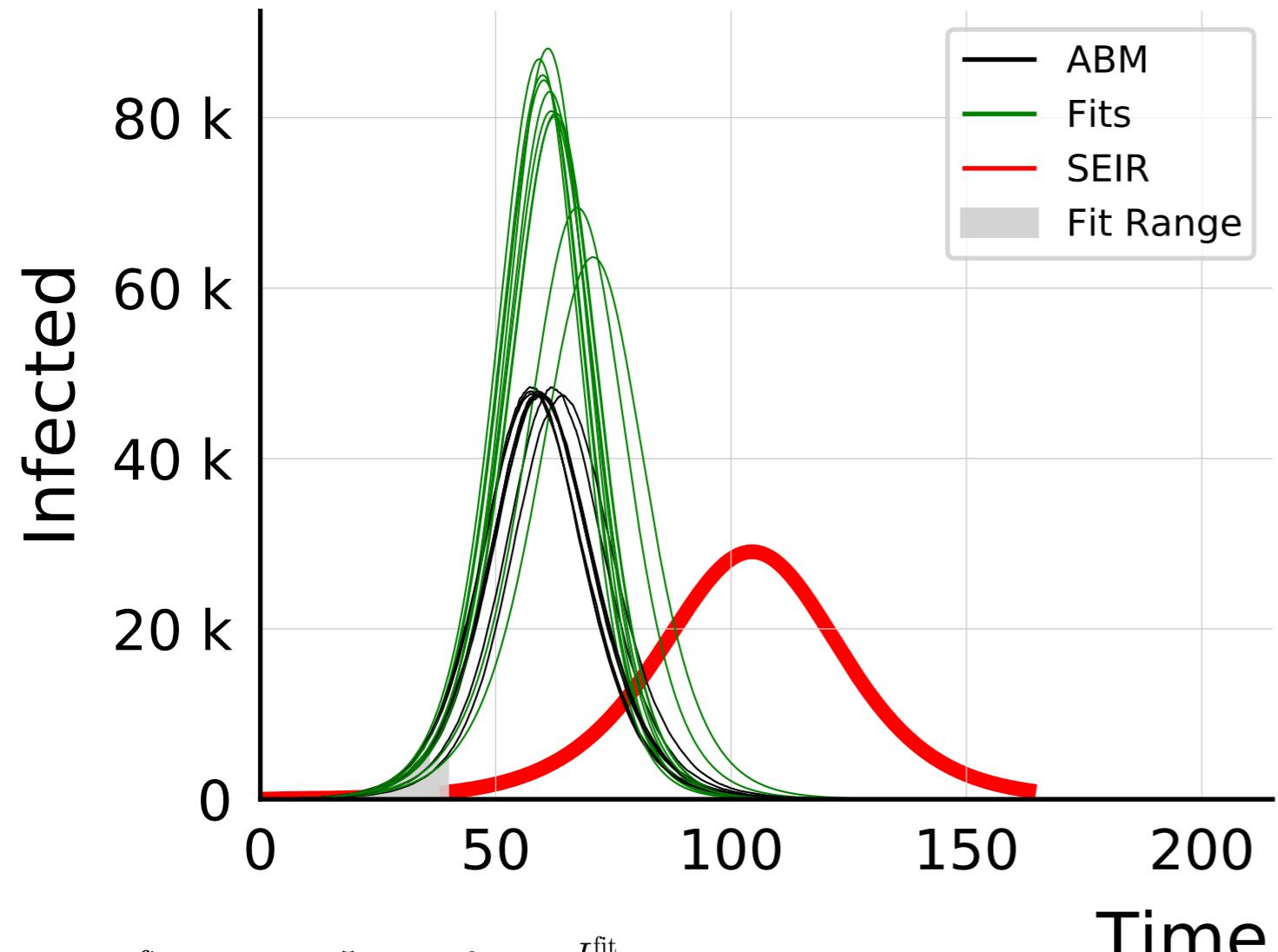
$$R_{\infty}^{\text{fit}} = 481^{+7}_{-5} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.379 \pm 0.0086$$

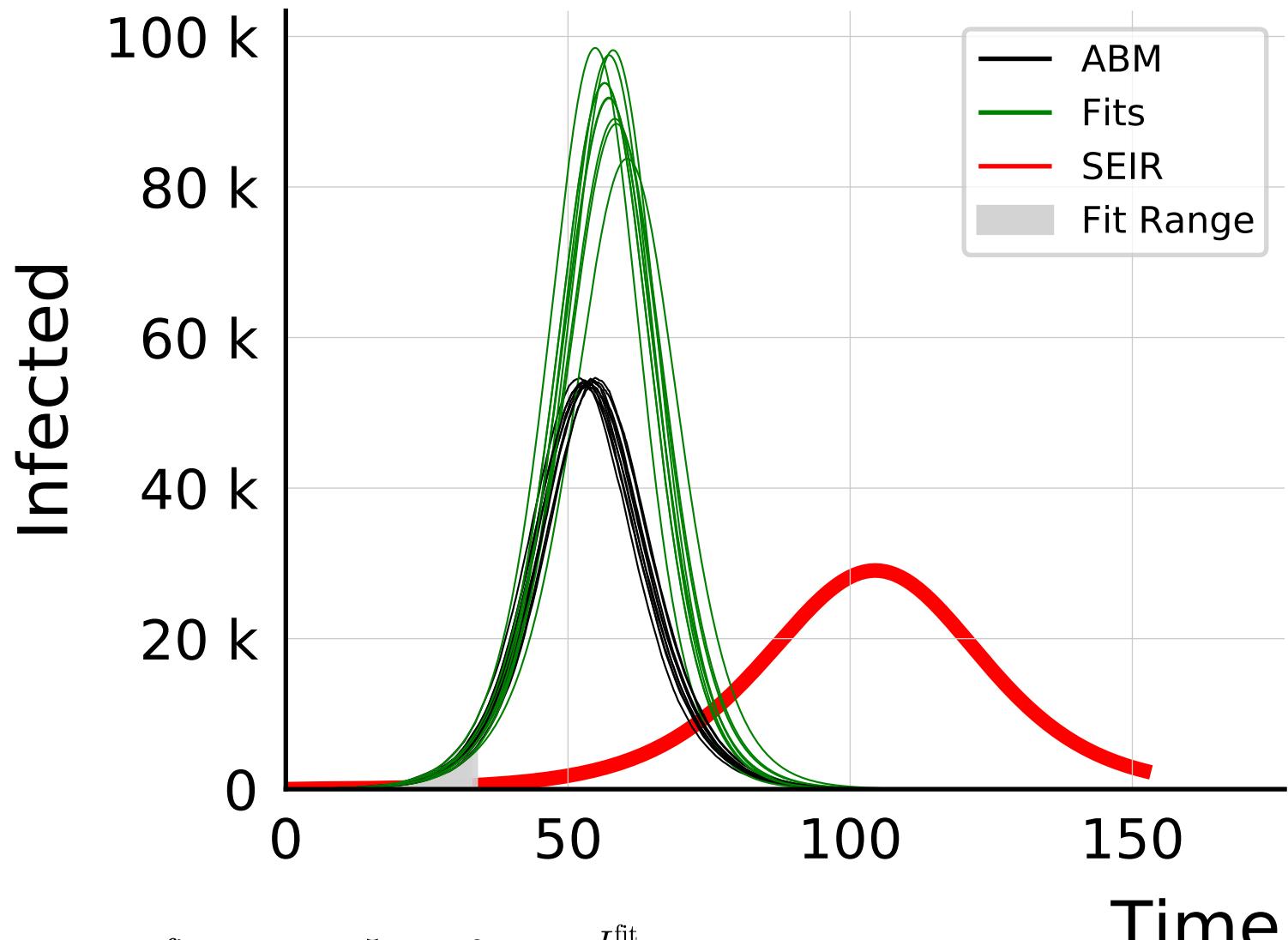
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

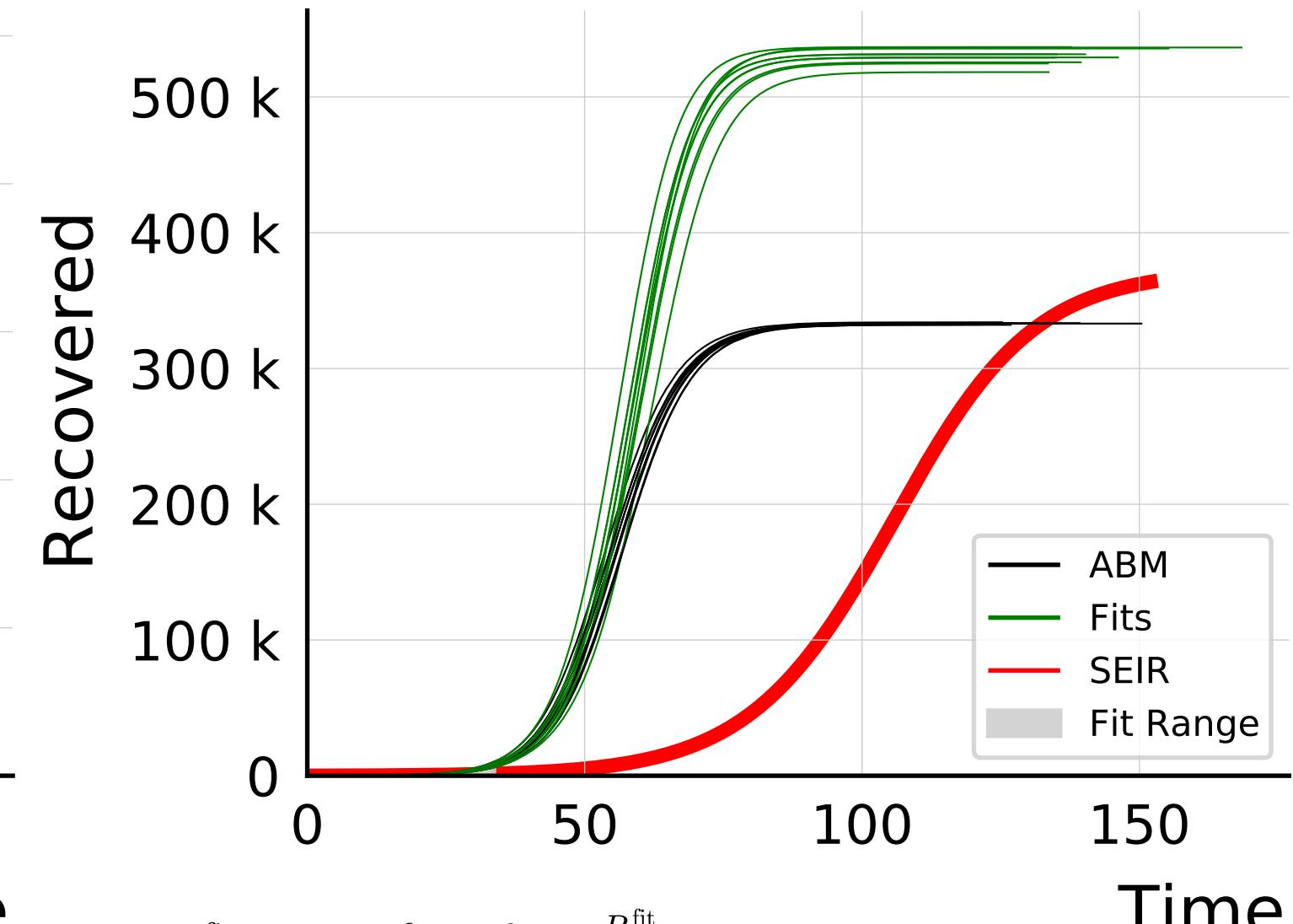


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 93_{-4}^{+5} \cdot 10^3$$

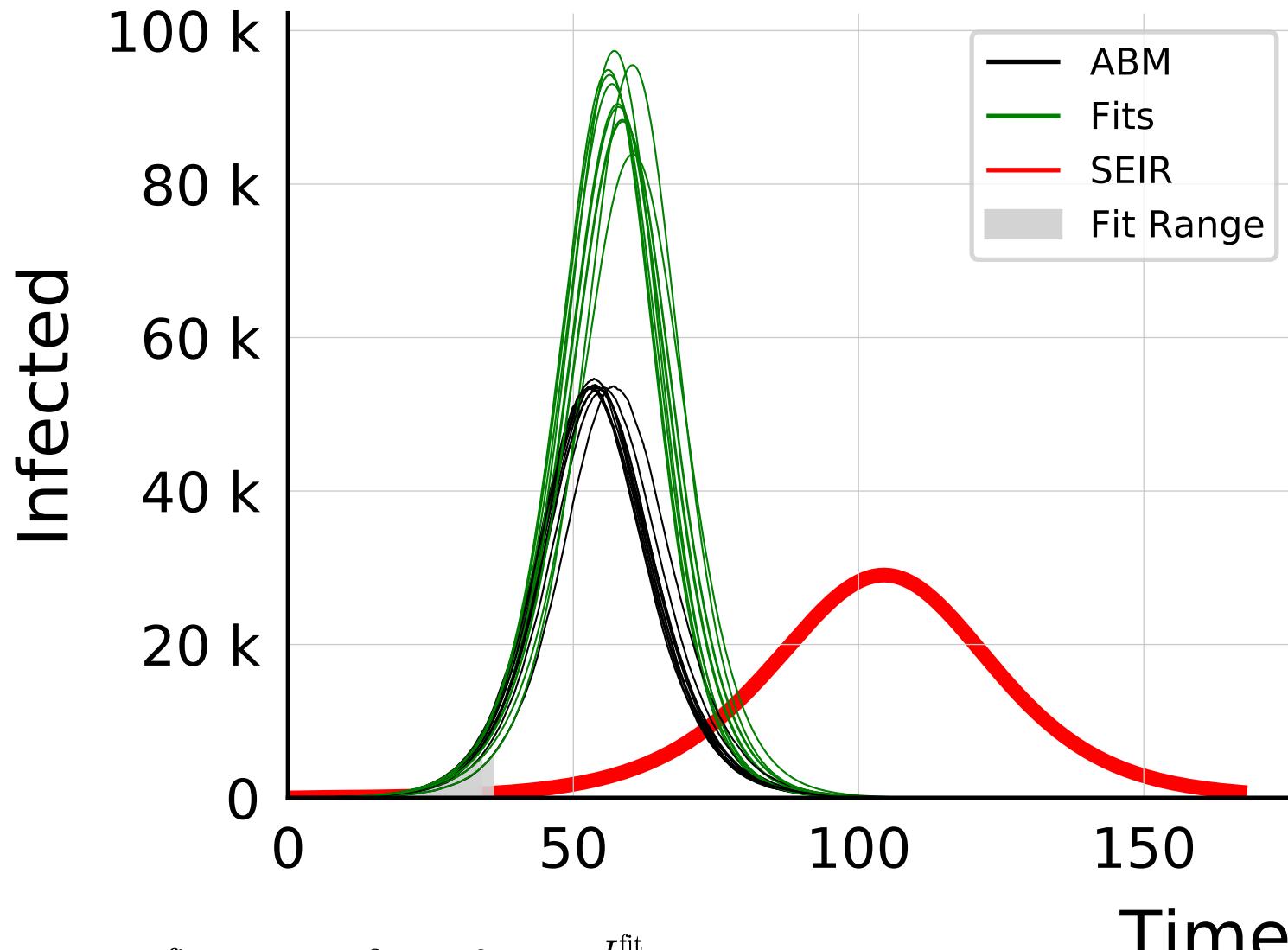
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.71 \pm 0.024$$



$$R_{\infty}^{\text{fit}} = 530_{-5}^{+6} \cdot 10^3$$

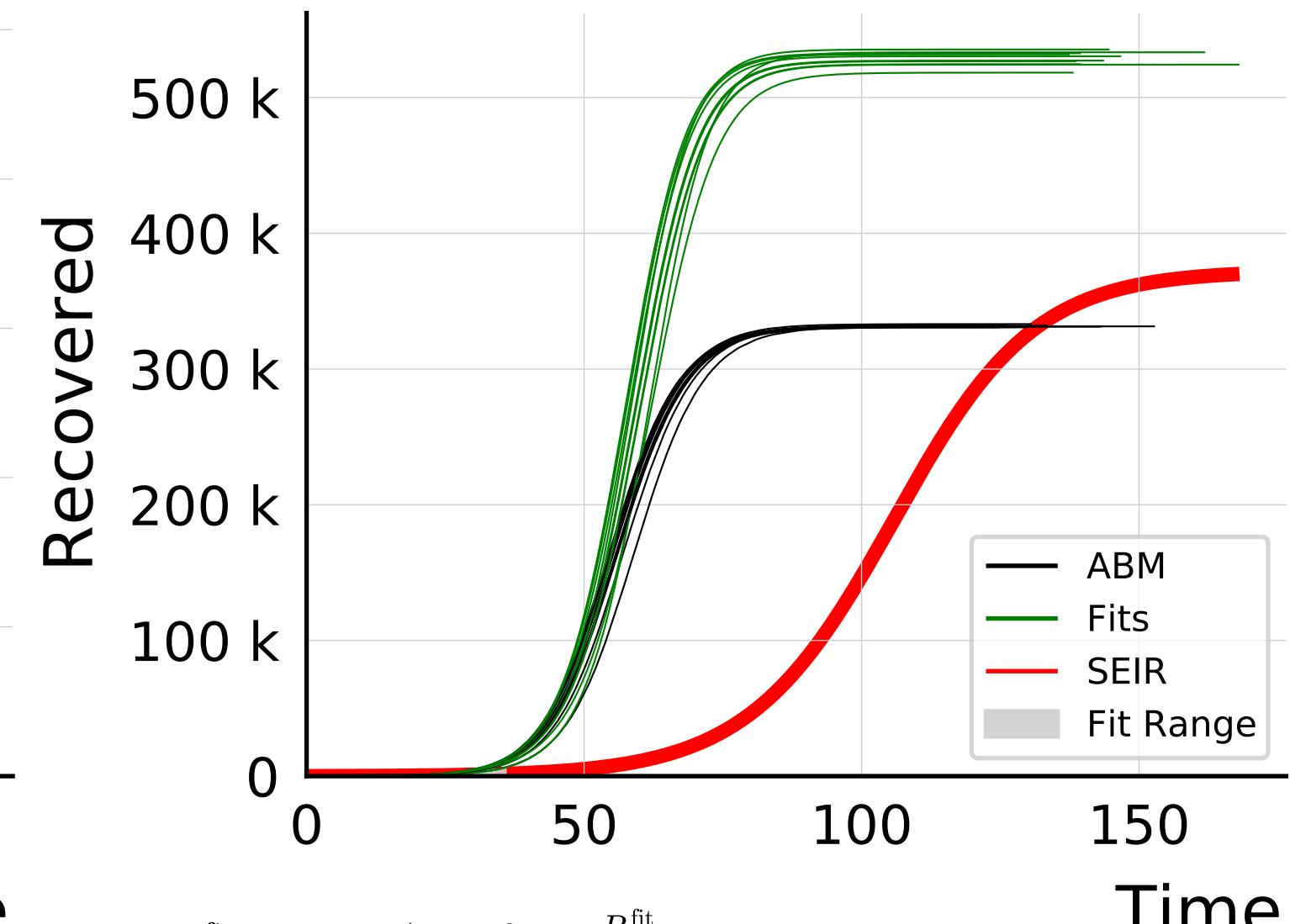
$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.591 \pm 0.0047$$

$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.25$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 92_{-4}^{+3} \cdot 10^3$$

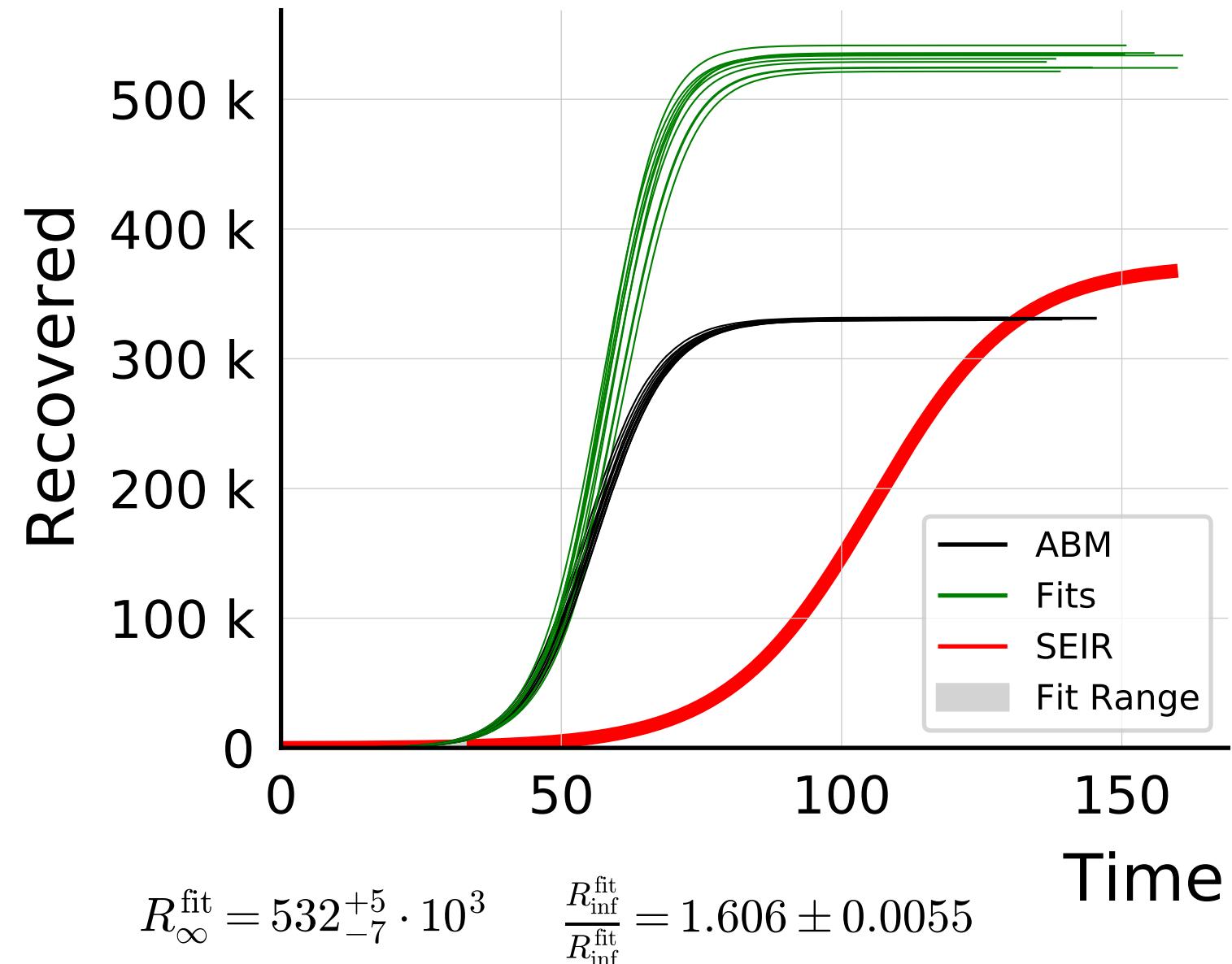
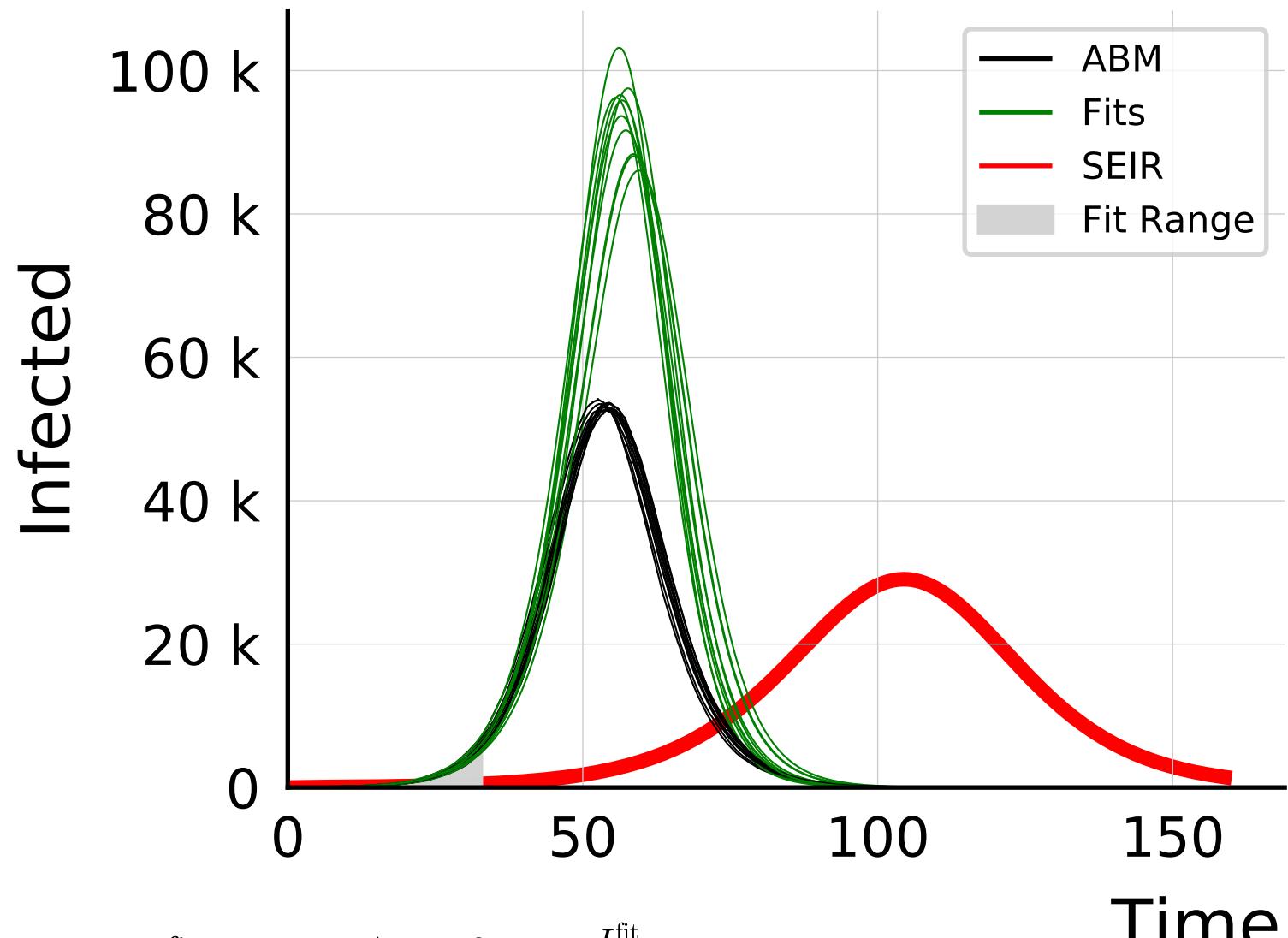
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.71 \pm 0.024$$



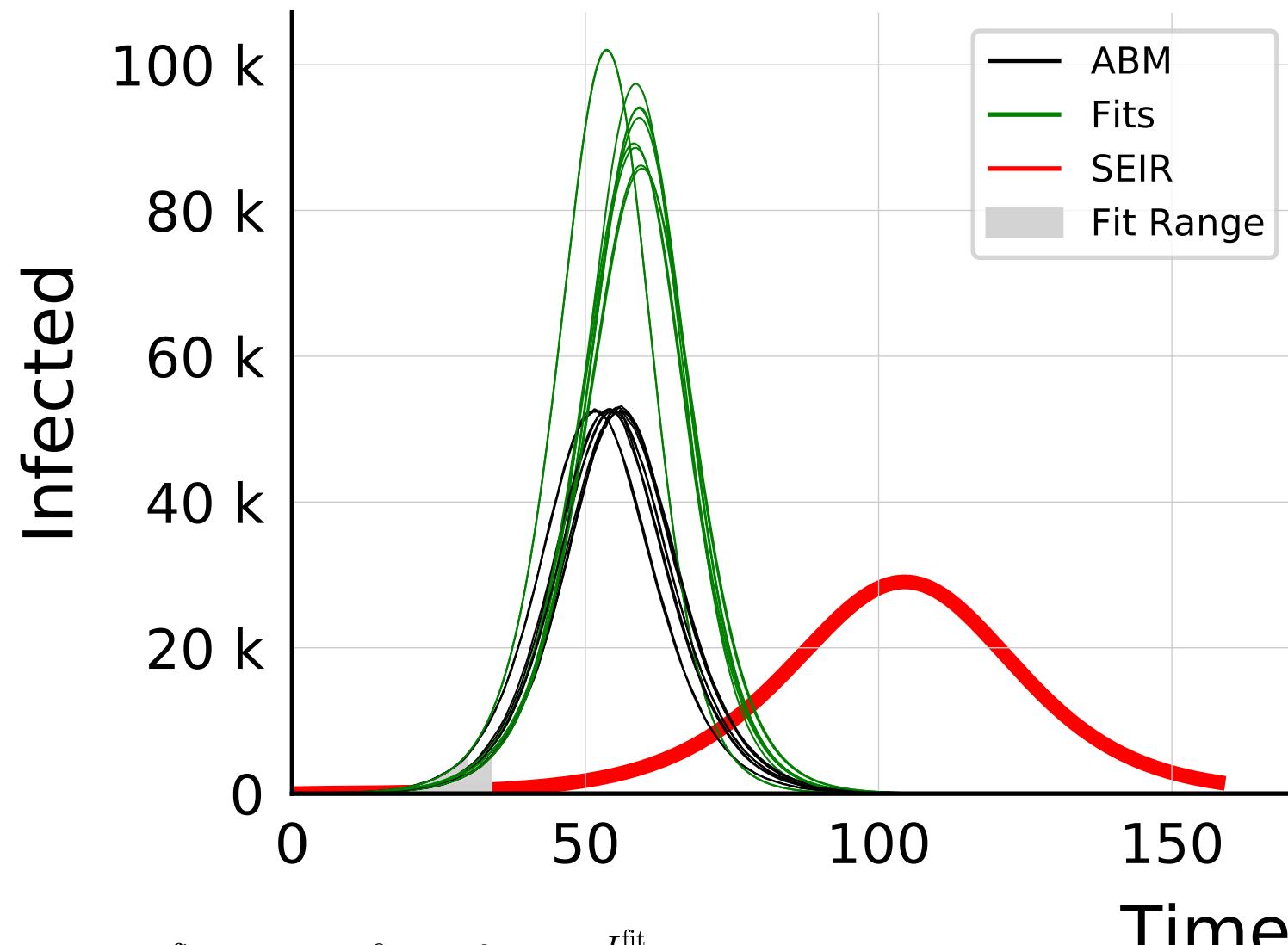
$$R_{\infty}^{\text{fit}} = 529_{-5}^{+4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.594 \pm 0.0053$$

$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.5$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

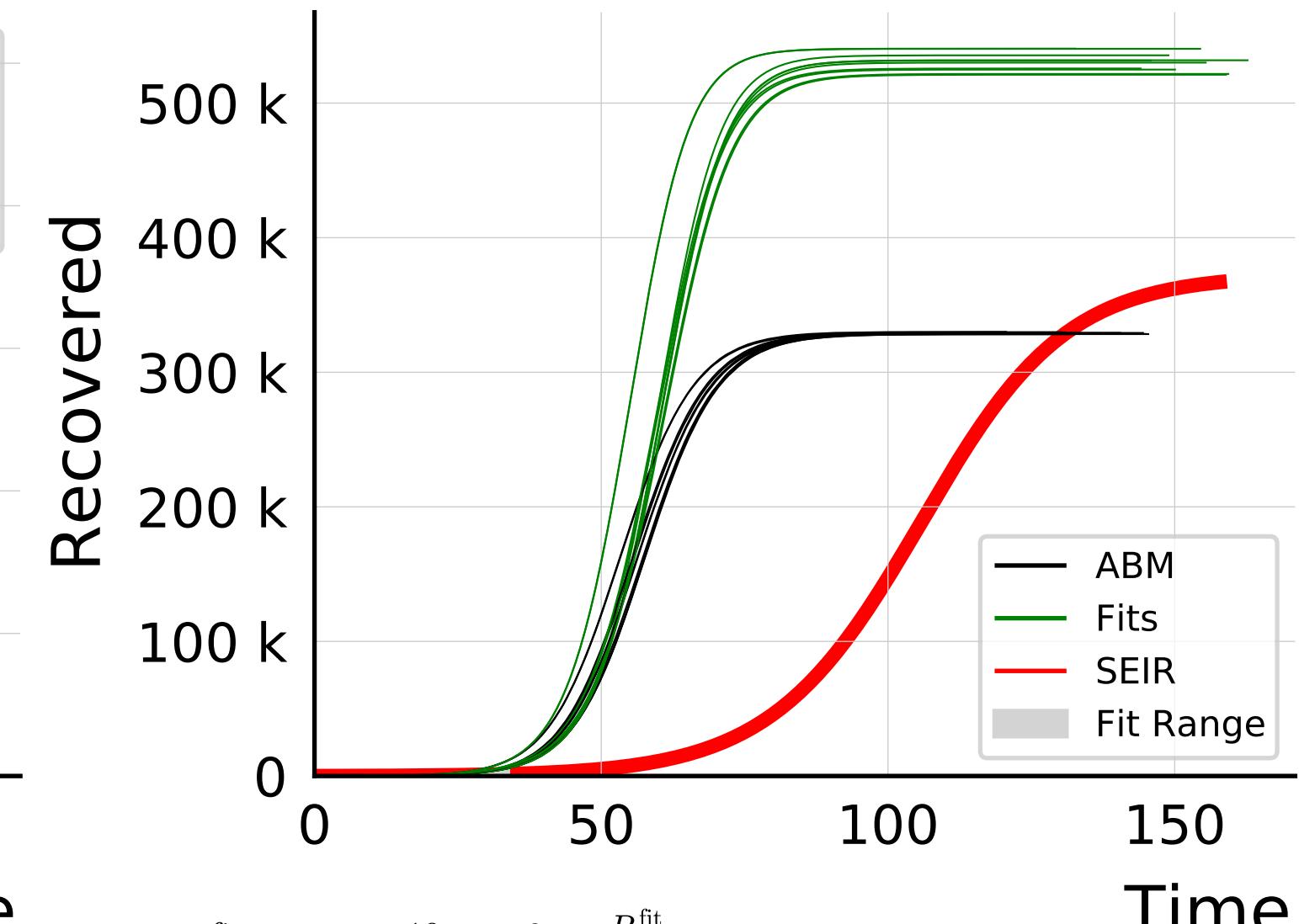


$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.75$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 93_{-7}^{+9} \cdot 10^3$$

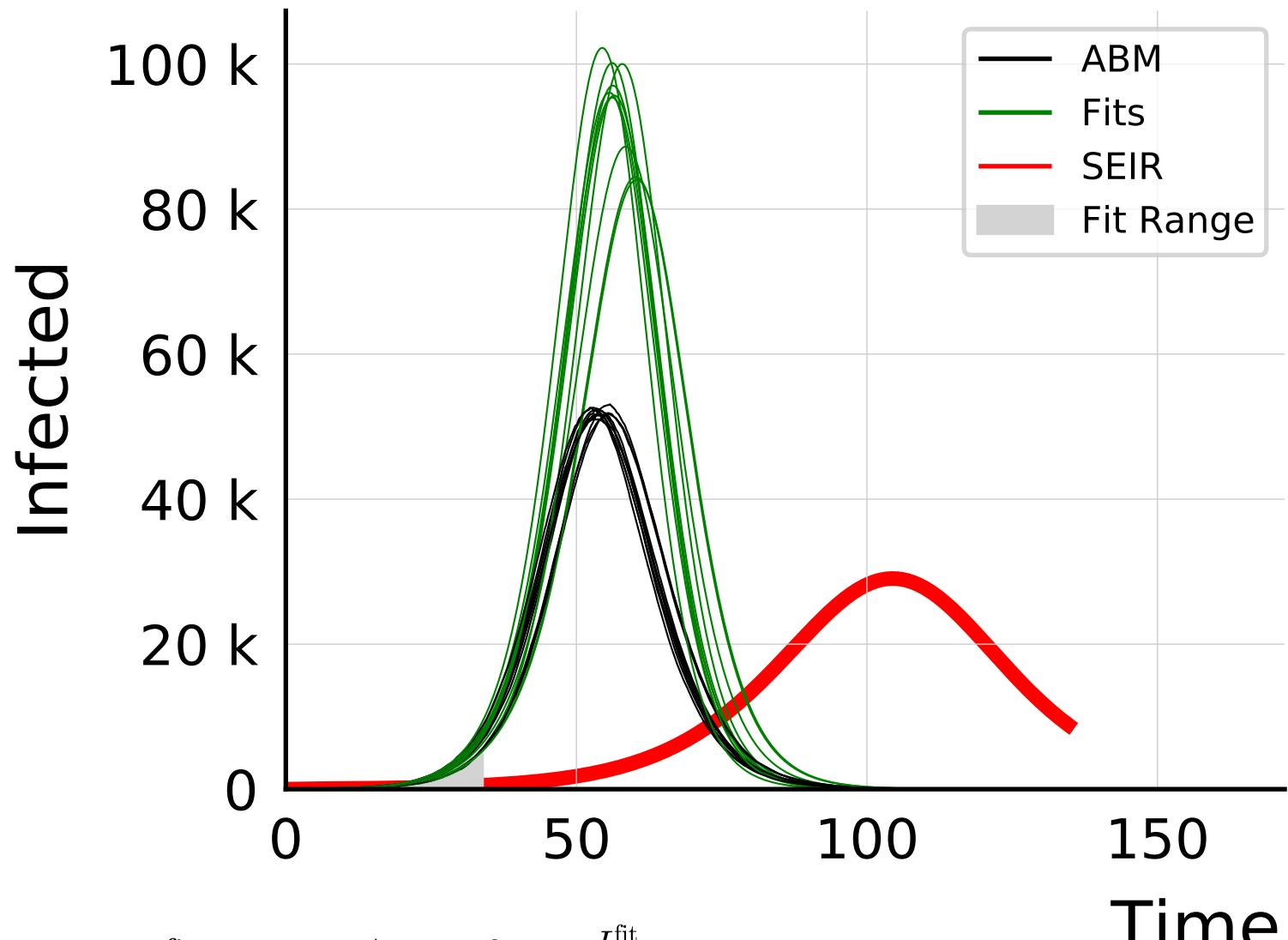
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.77 \pm 0.034$$



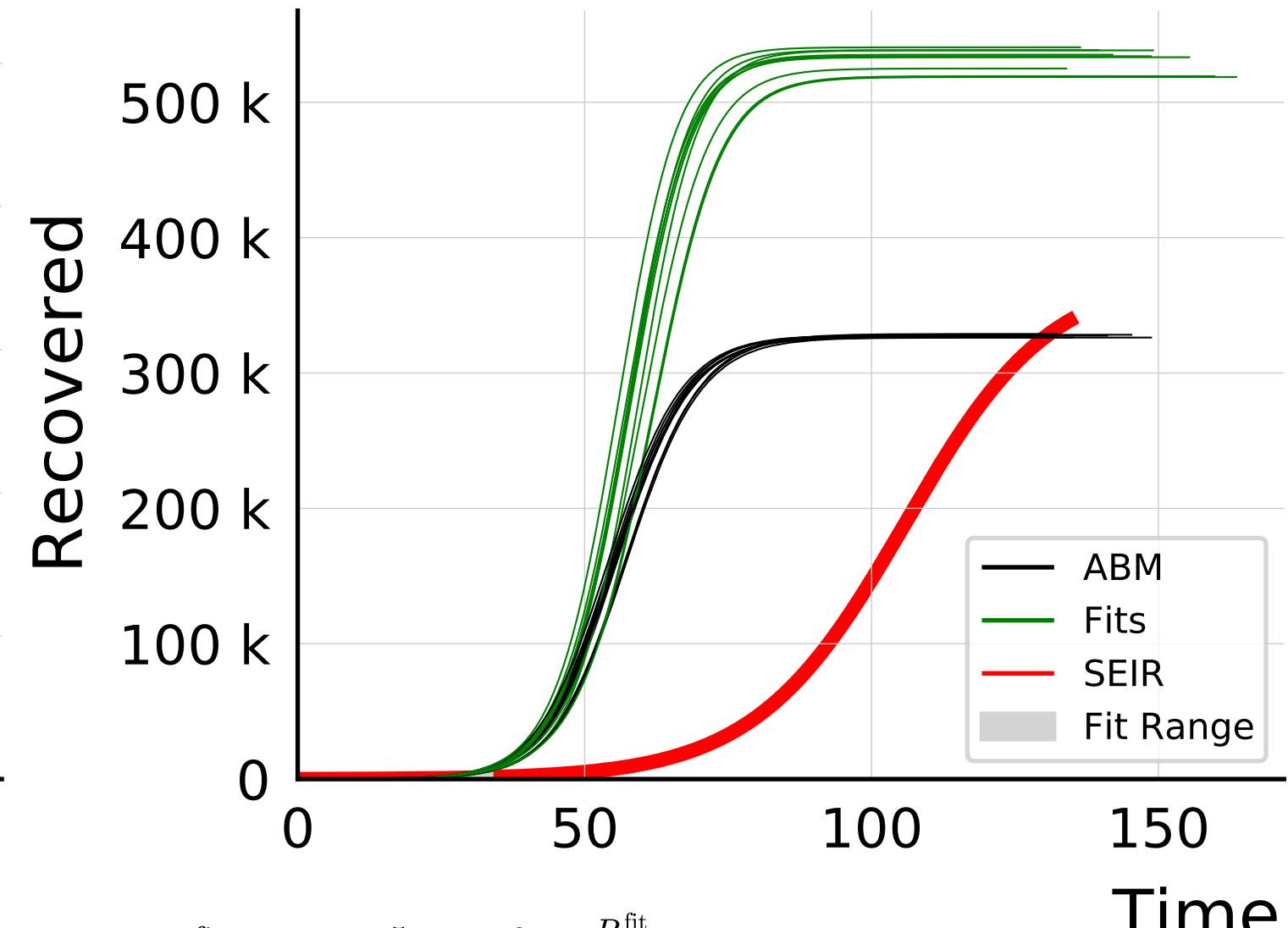
$$R_{\infty}^{\text{fit}} = 530_{-9}^{+10} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.611 \pm 0.0063$$

$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

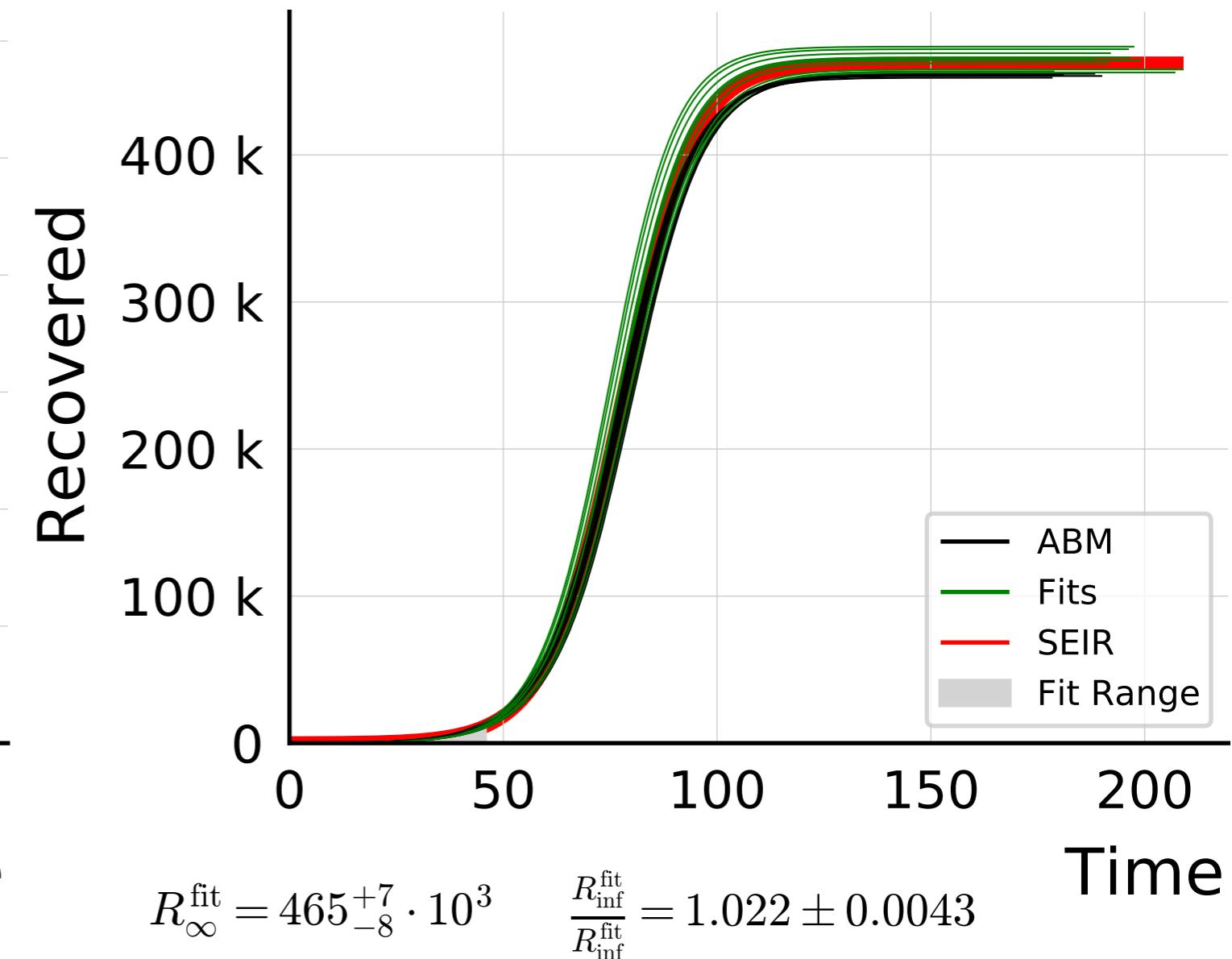
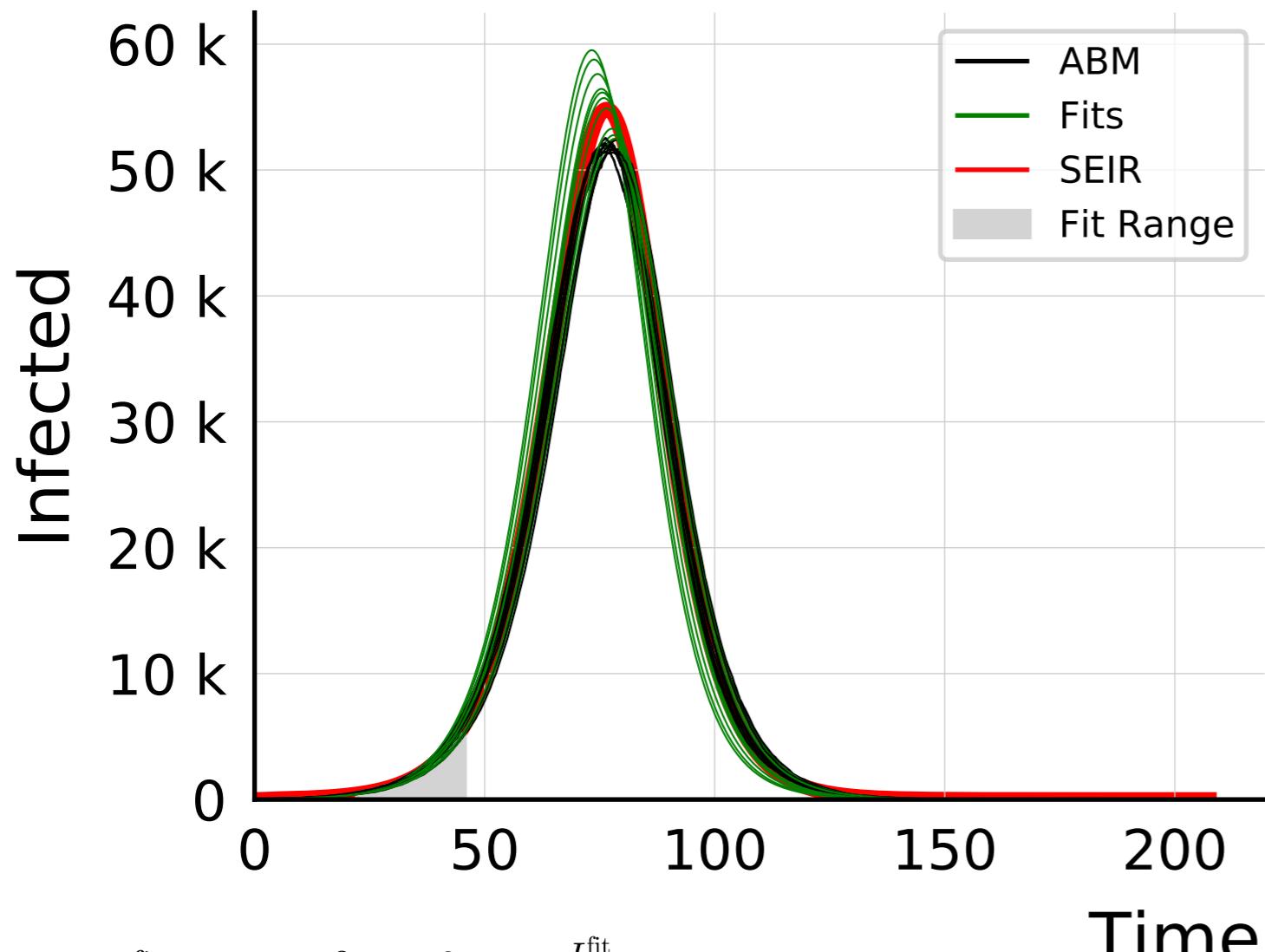


$$I_{\max}^{\text{fit}} = 96_{-12}^{+4} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.81 \pm 0.036$$

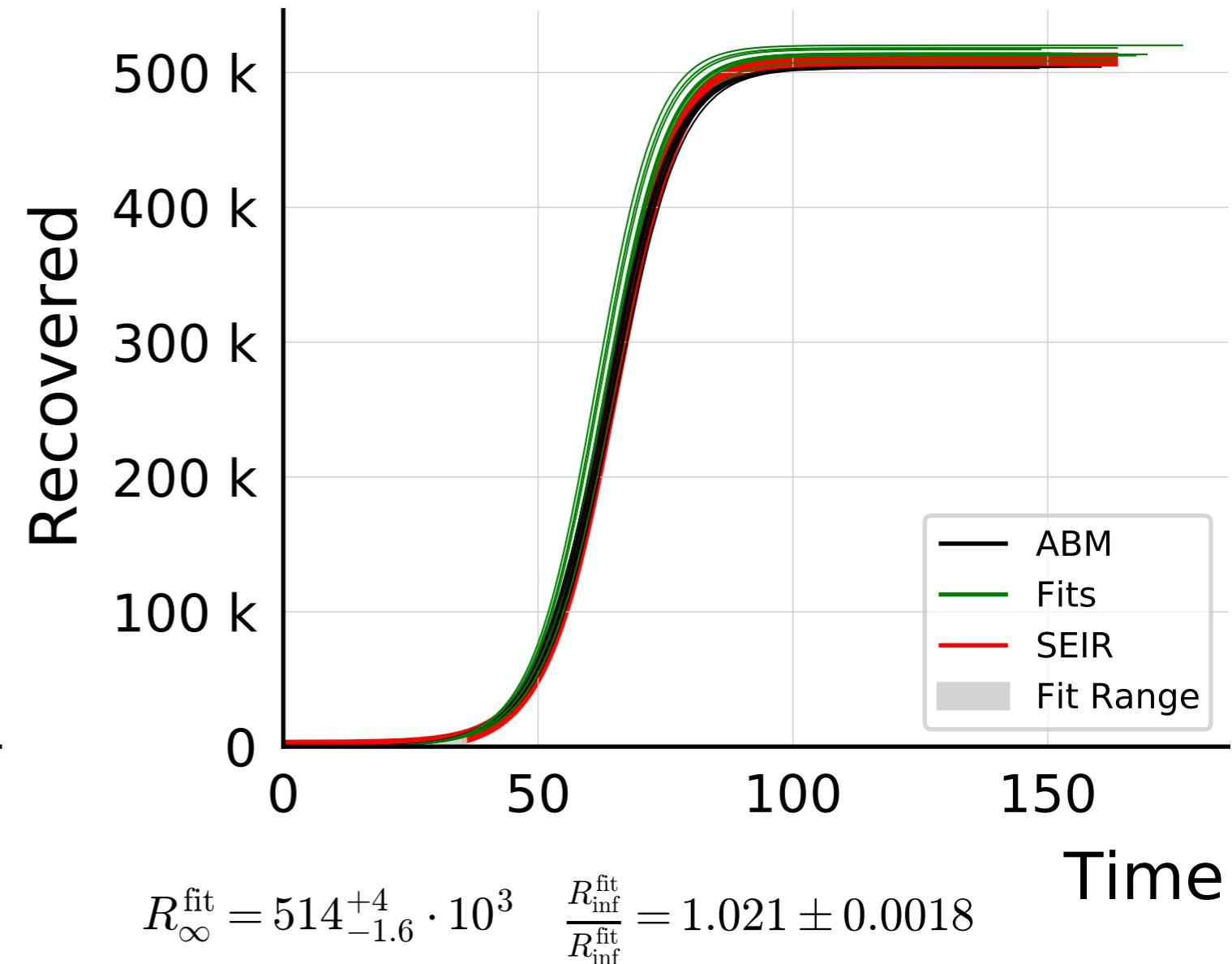
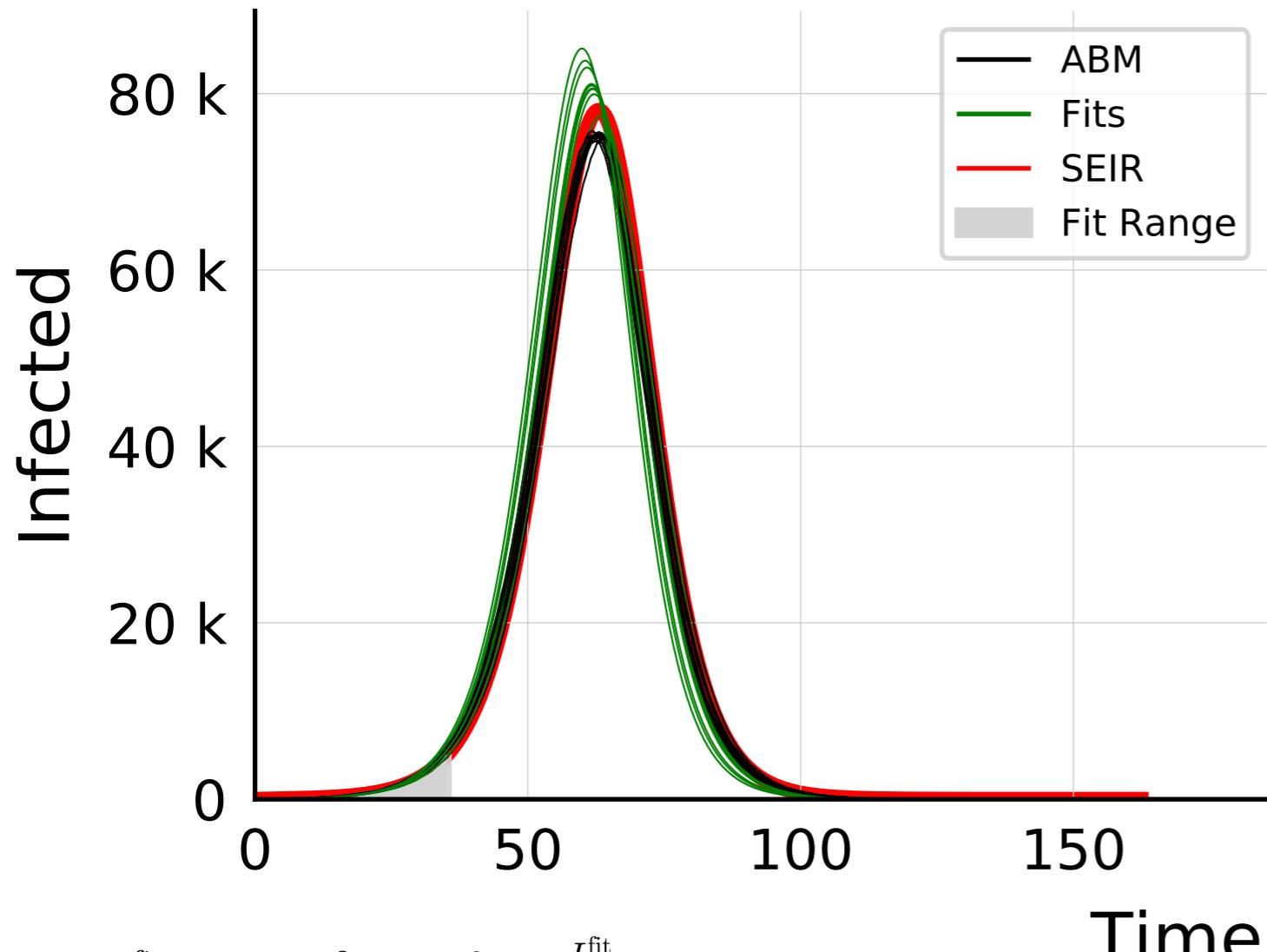


$$R_{\infty}^{\text{fit}} = 534_{-15}^{+5} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.624 \pm 0.0071$$

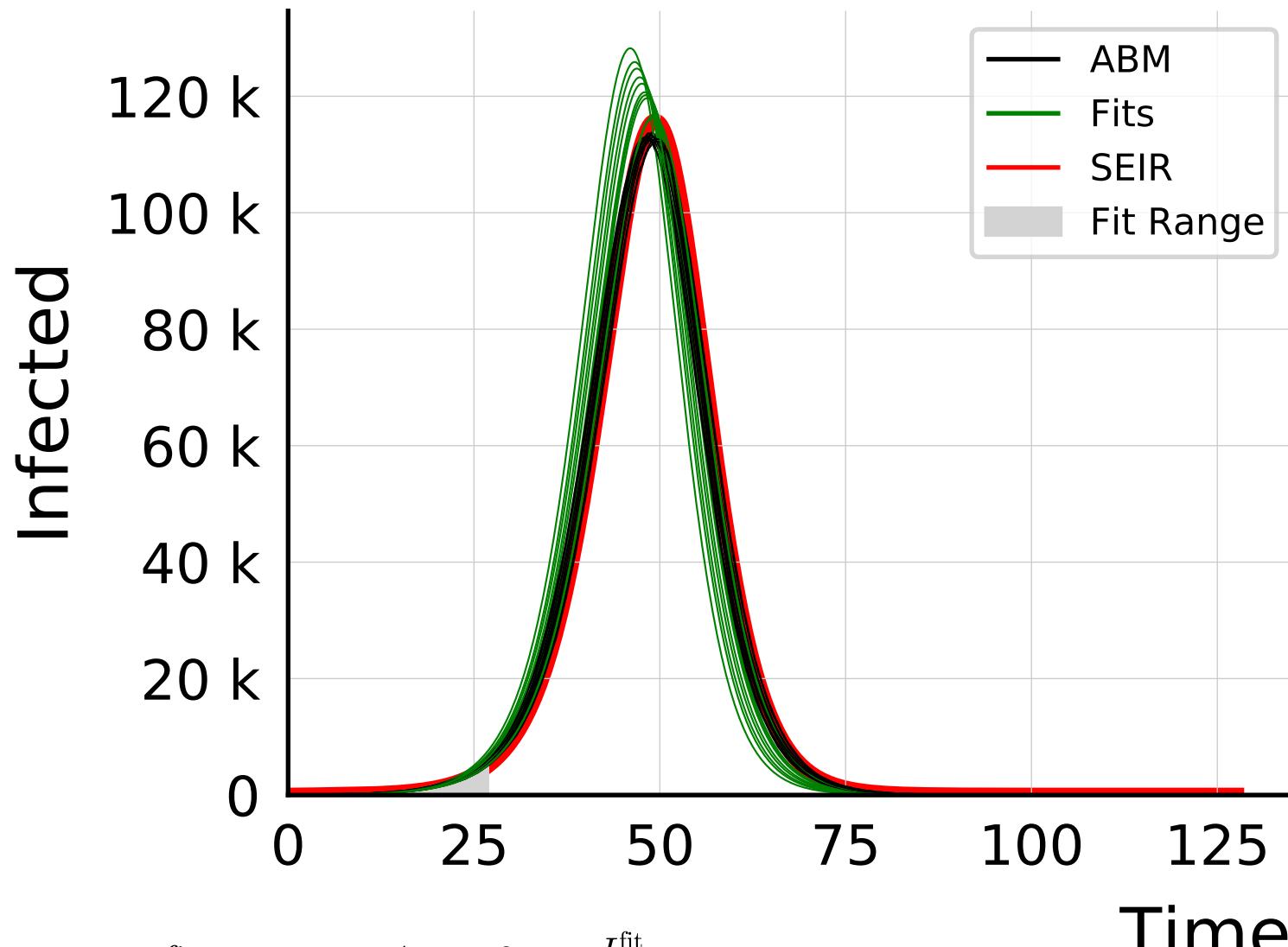
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 50.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



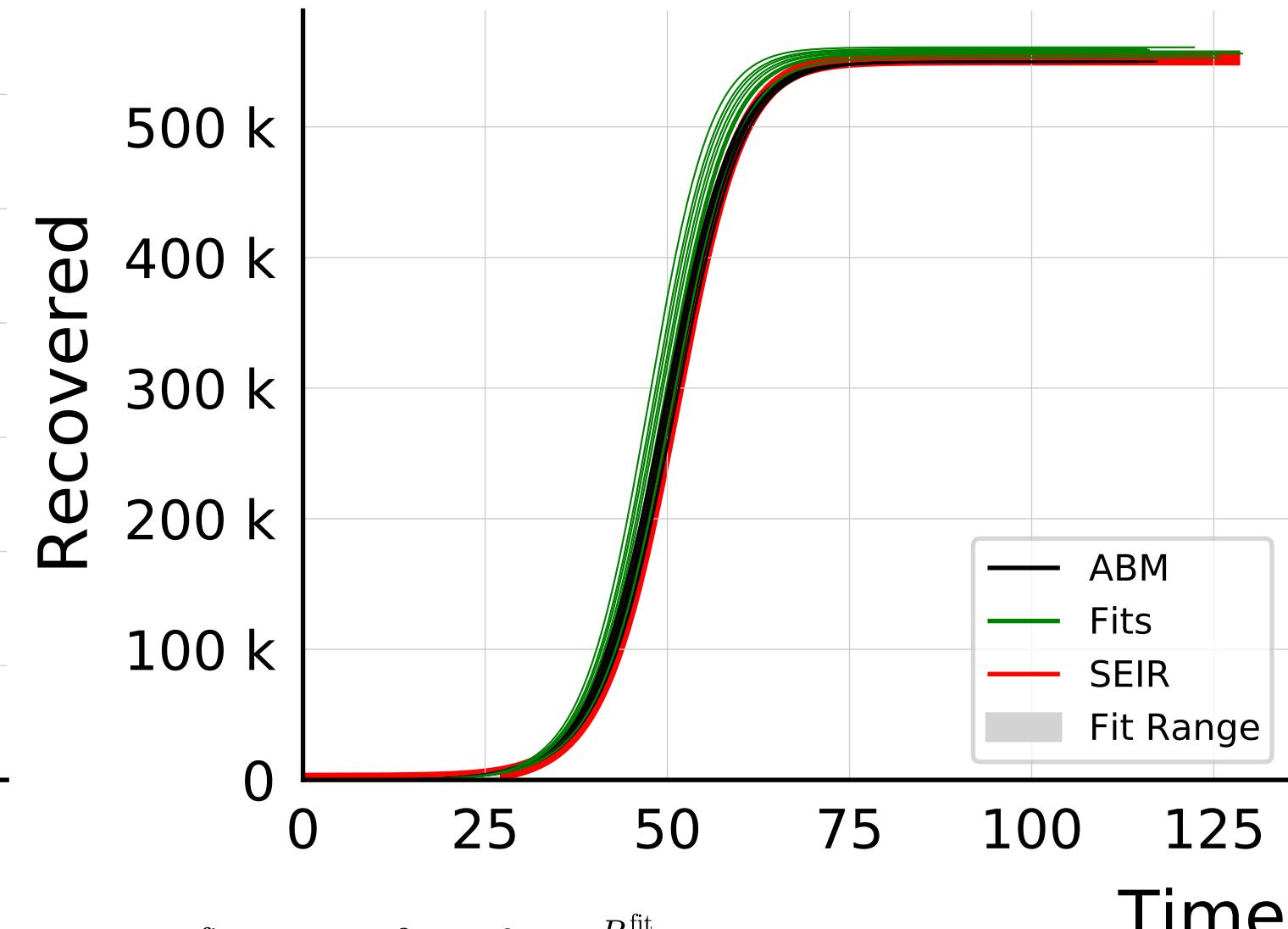
$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 60.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 80.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

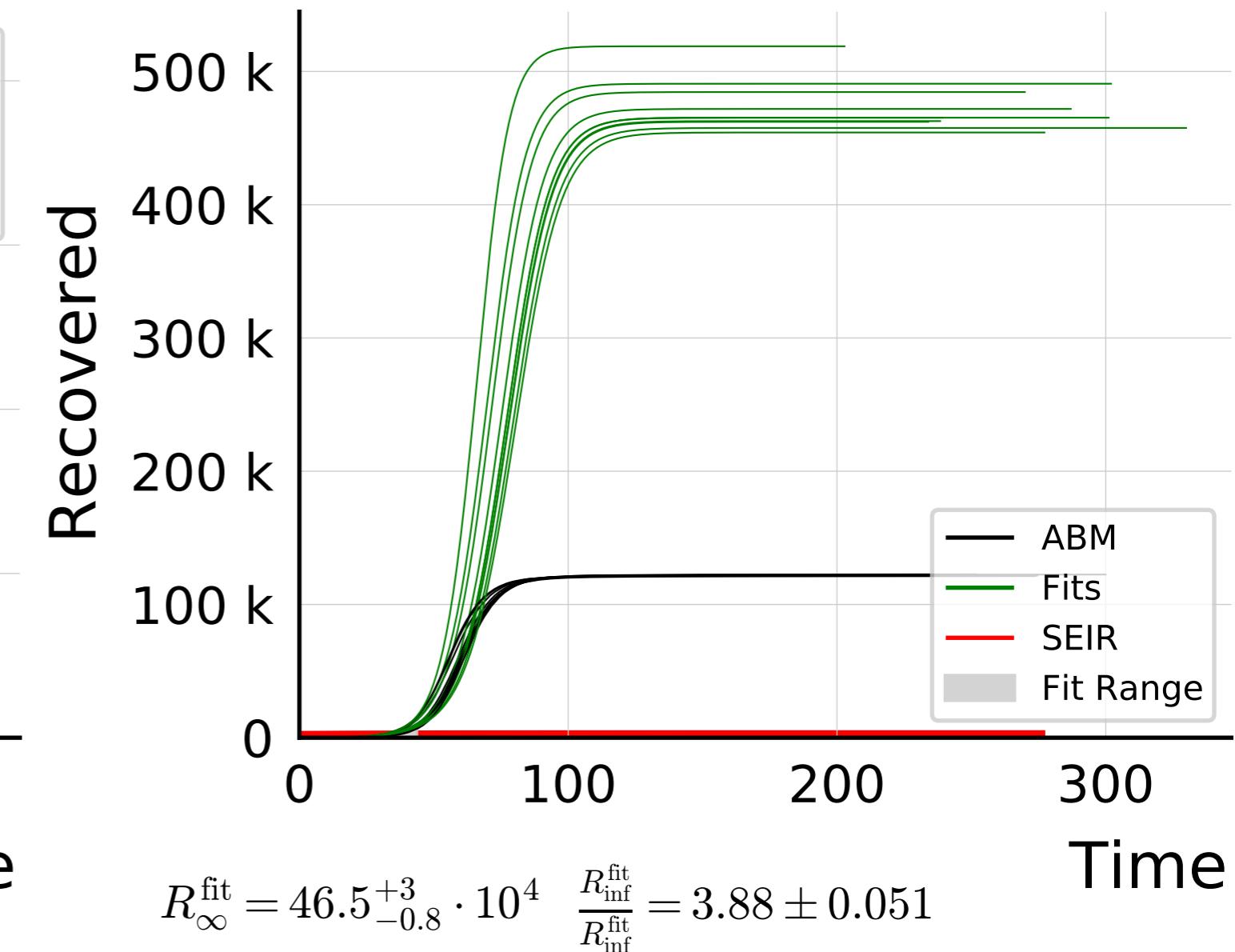
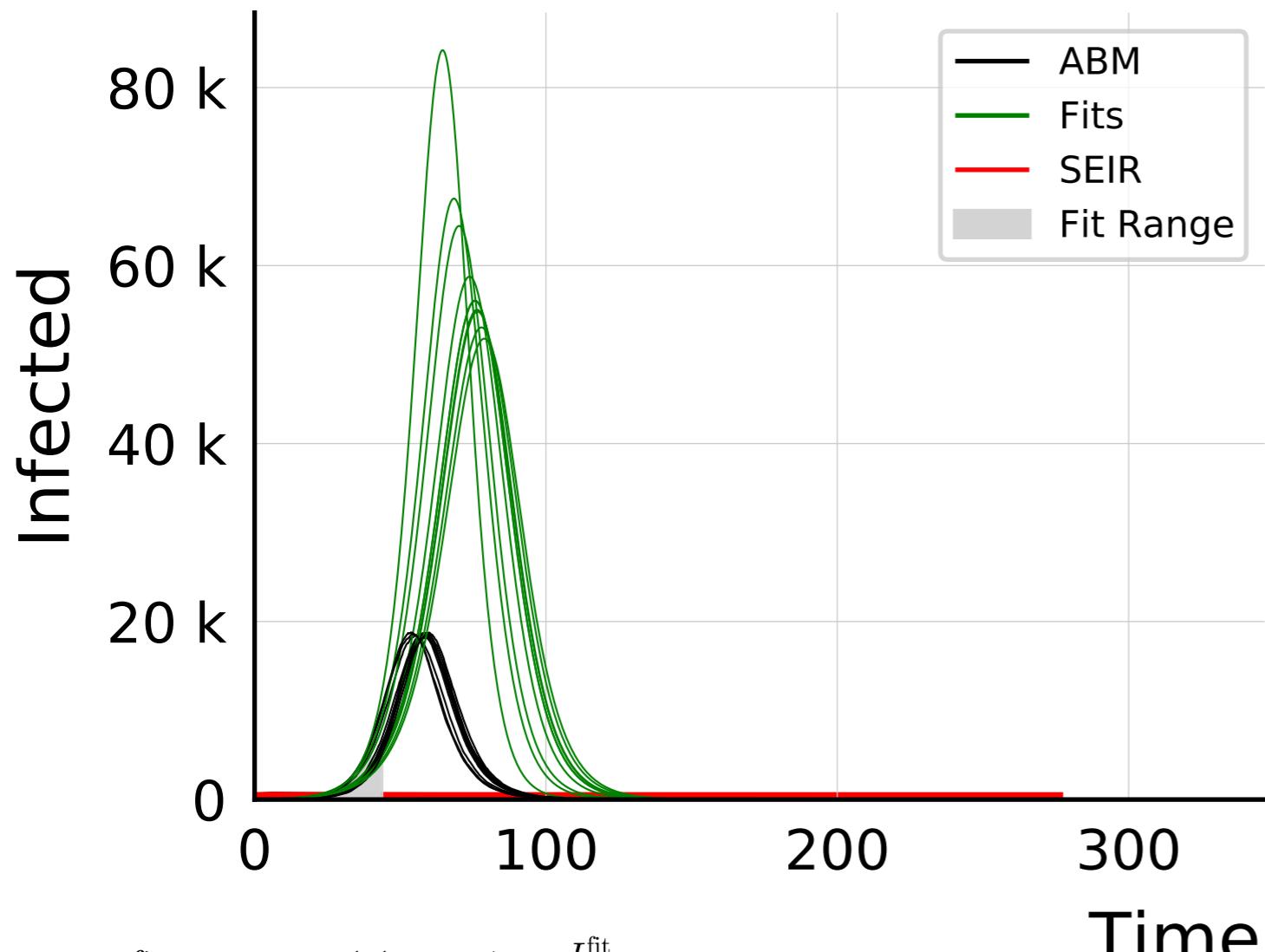


$$I_{\max}^{\text{fit}} = 121^{+4}_{-5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.08 \pm 0.010$$

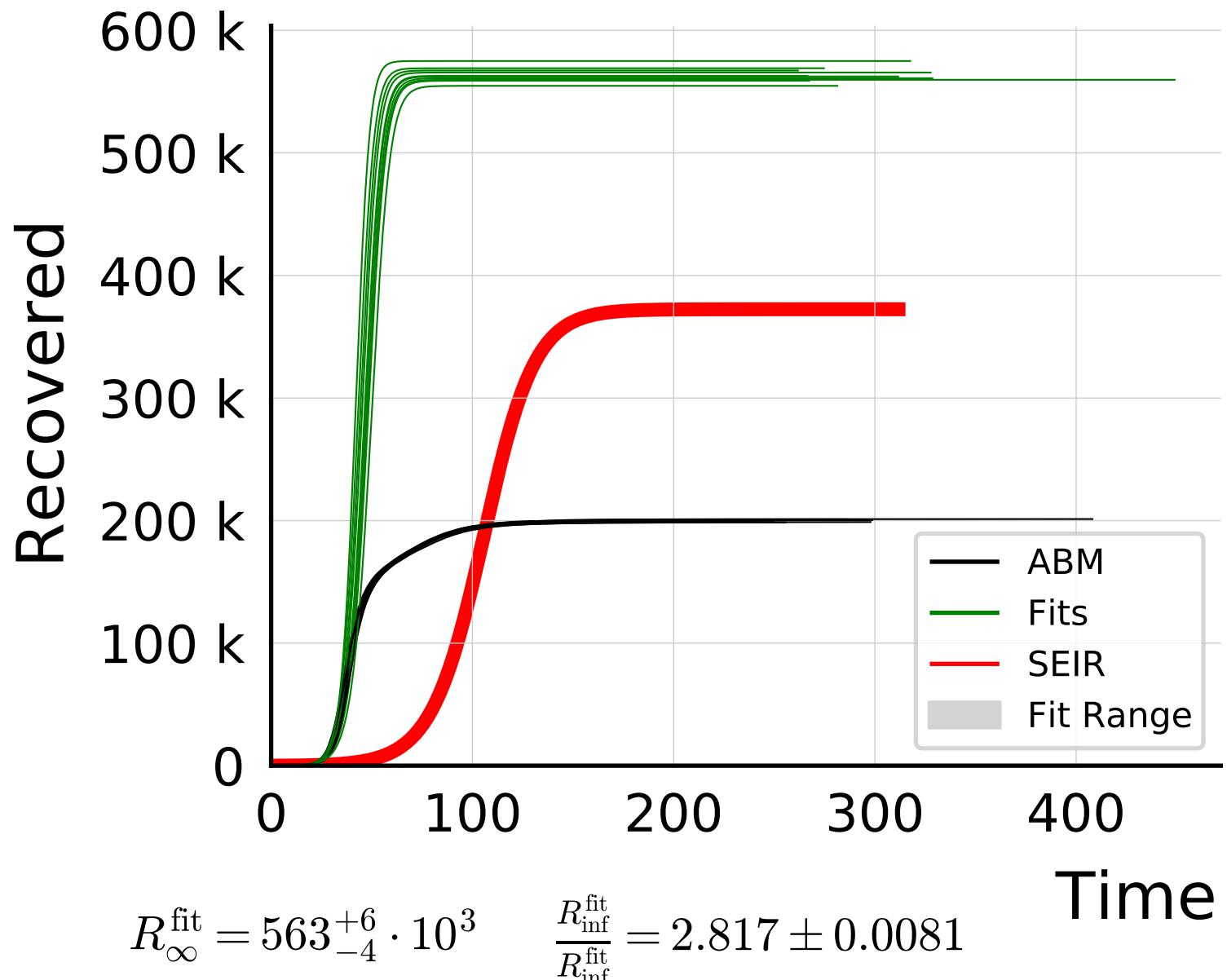
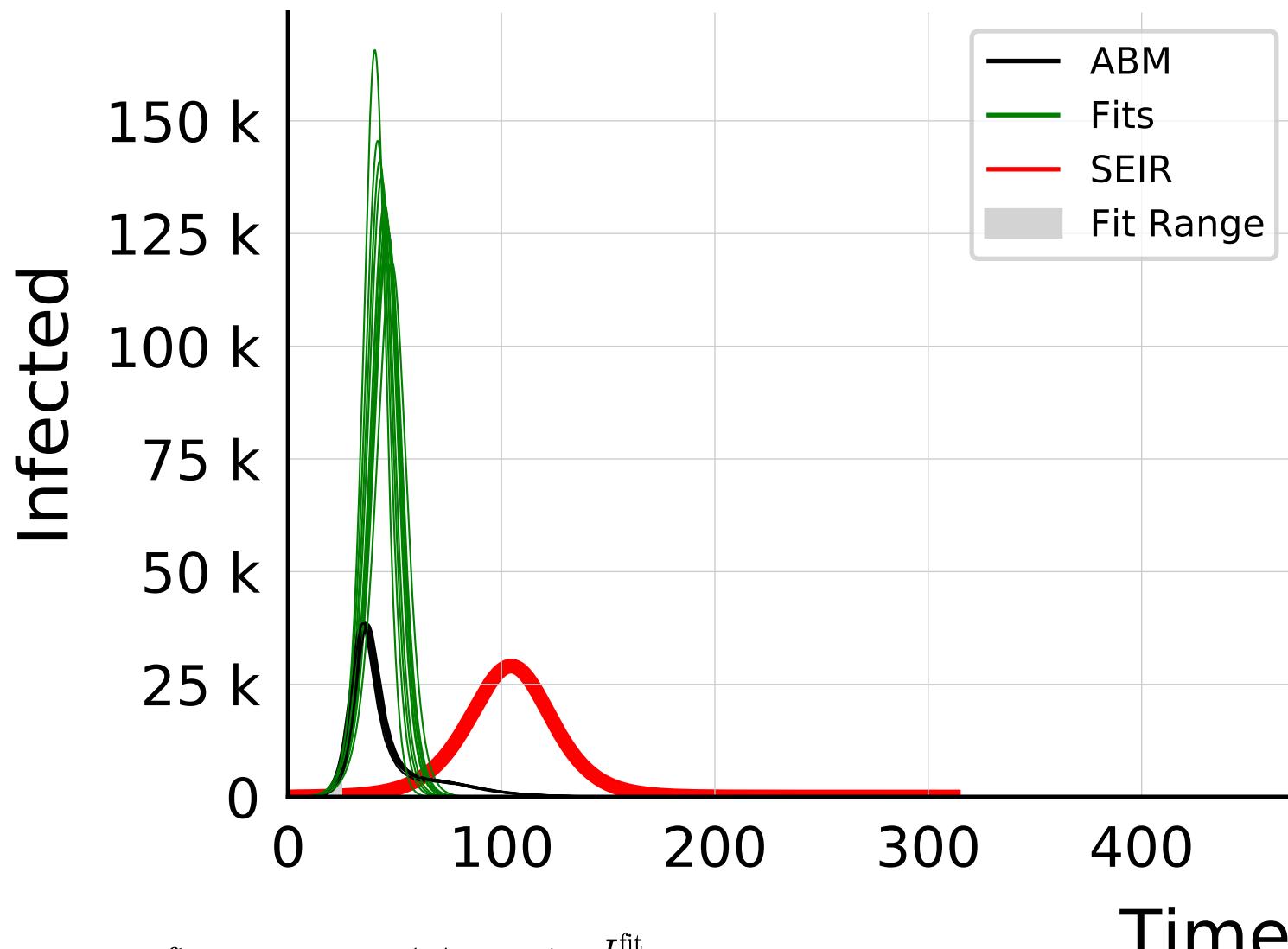


$$R_{\infty}^{\text{fit}} = 557^{+3}_{-3} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.013 \pm 0.0014$$

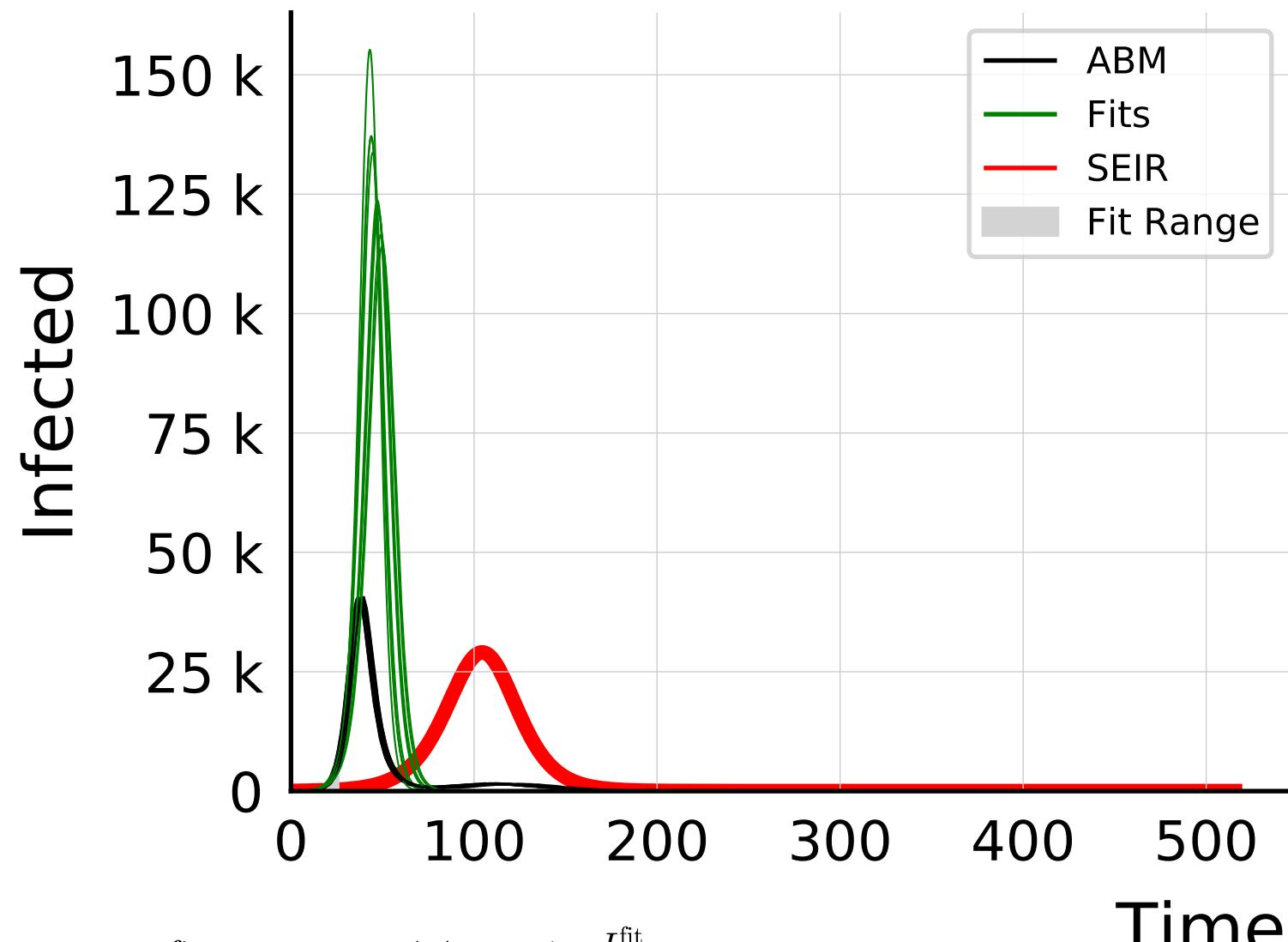
$N_{\text{tot}} = 580K$, $\rho = 0.15$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



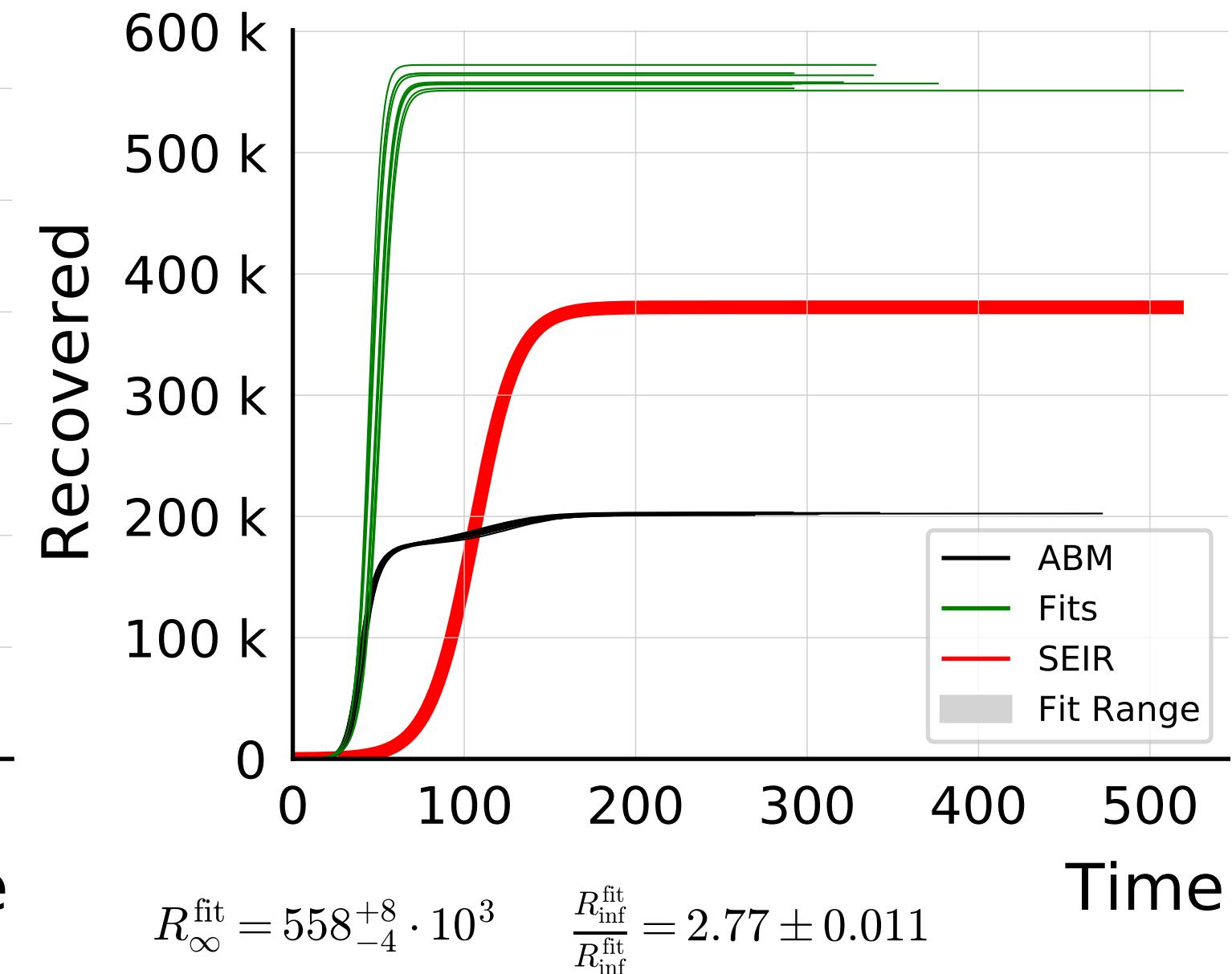
$N_{\text{tot}} = 580K$, $\rho = 0.15$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.005$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

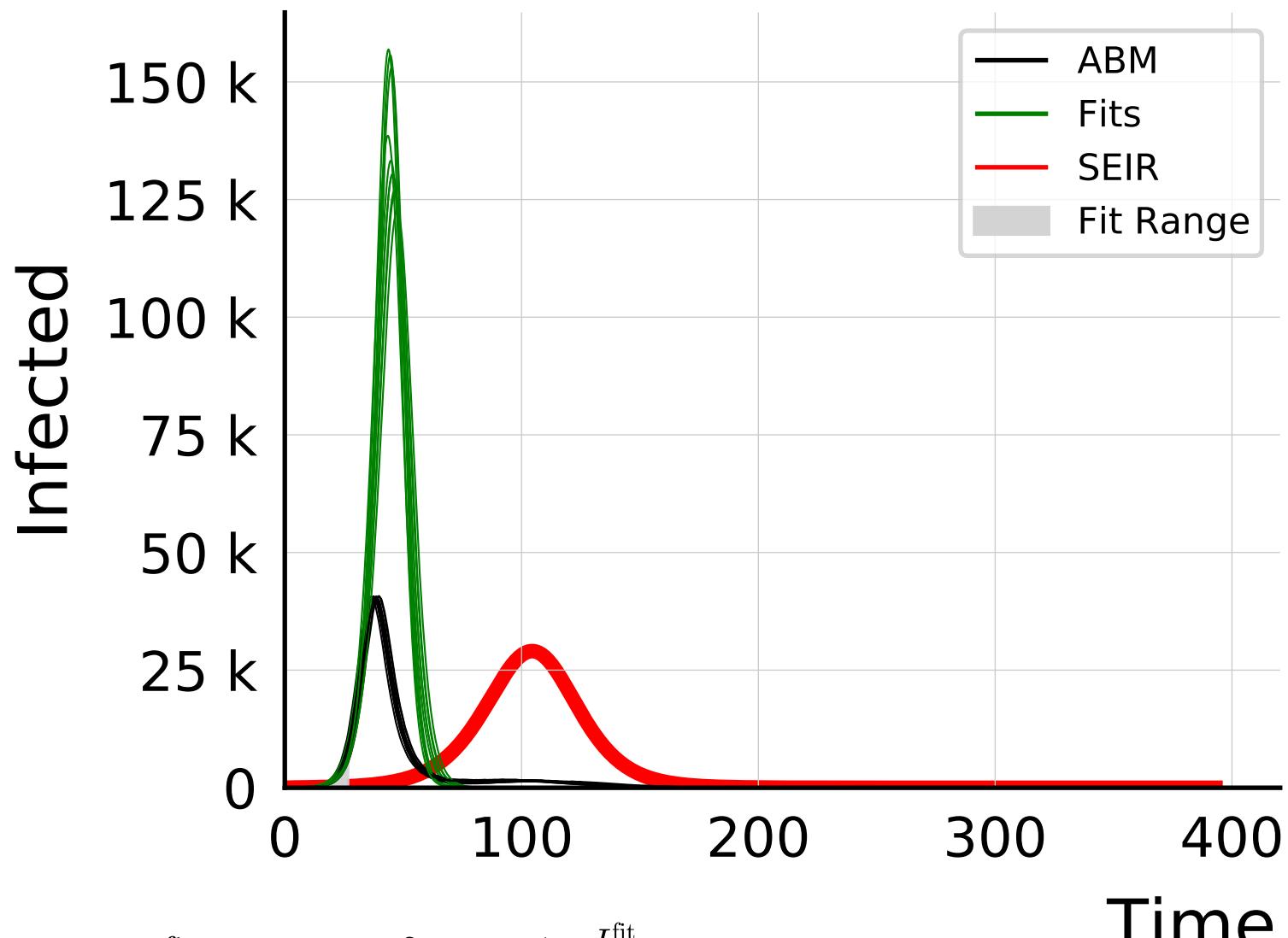


$$I_{\max}^{\text{fit}} = 12.3^{+1.4}_{-0.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.17 \pm 0.093$$

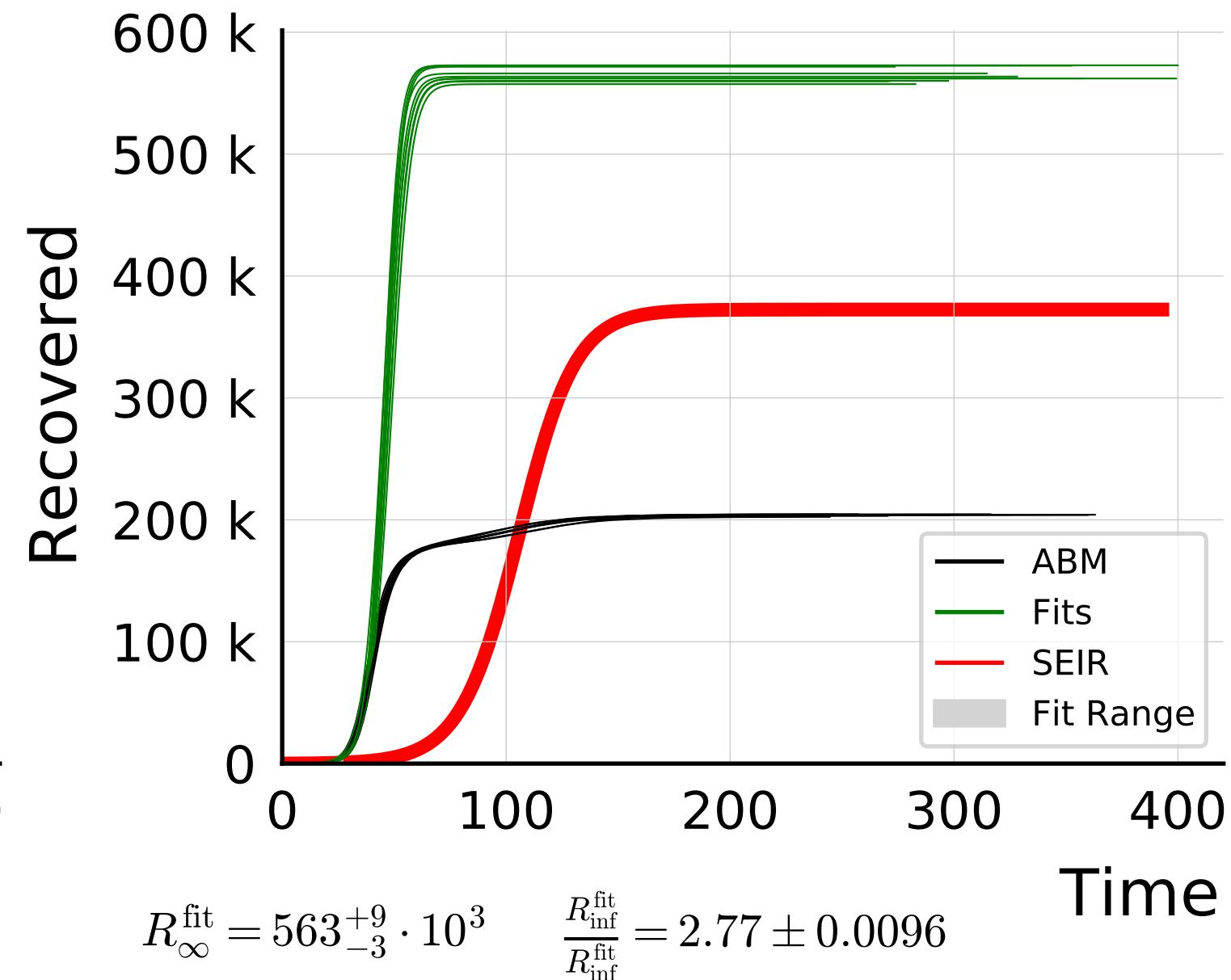


$$R_{\infty}^{\text{fit}} = 558^{+8}_{-4} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 2.77 \pm 0.011$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.01$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

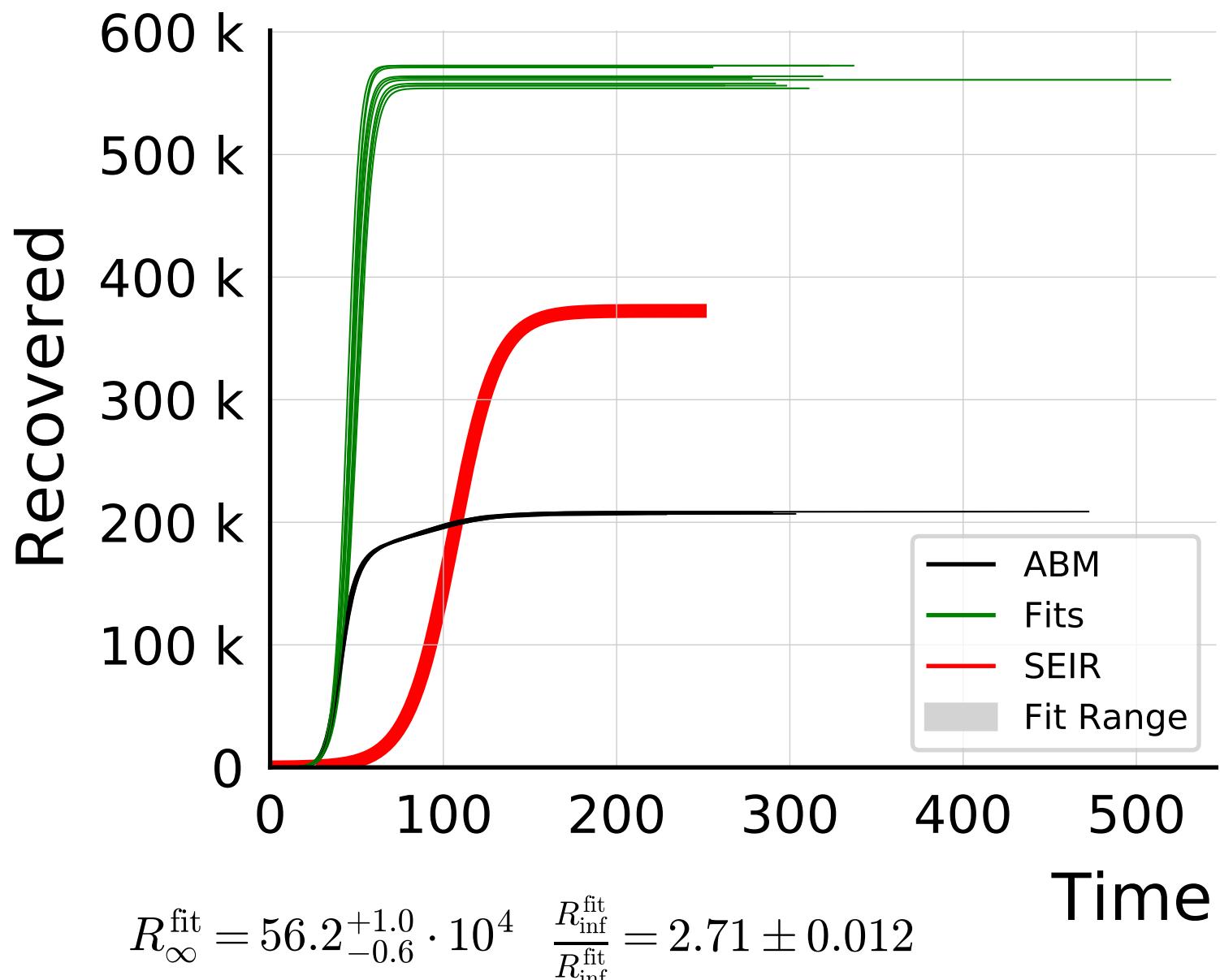
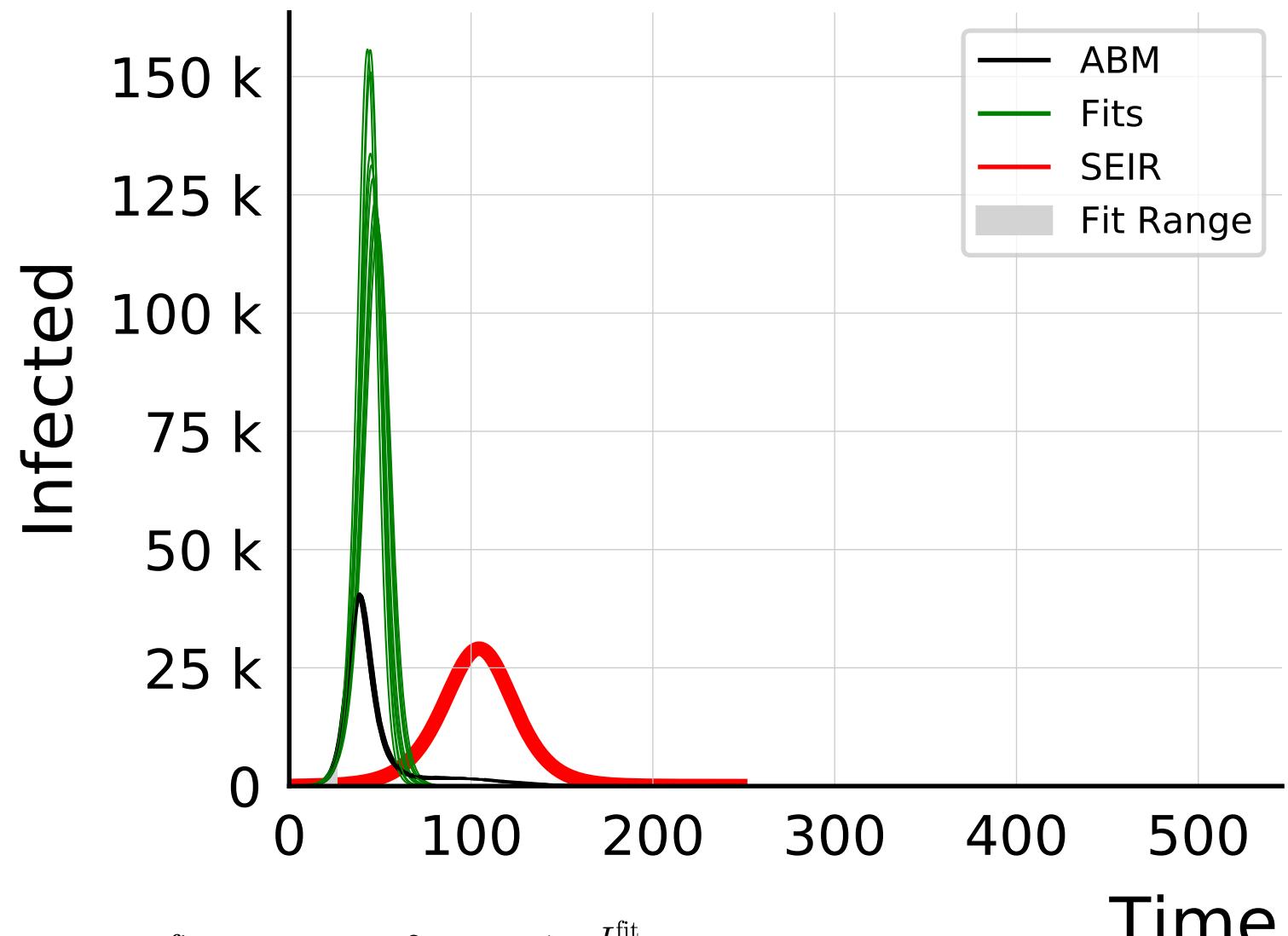


$$I_{\max}^{\text{fit}} = 13.2_{-0.6}^{+2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.39 \pm 0.093$$

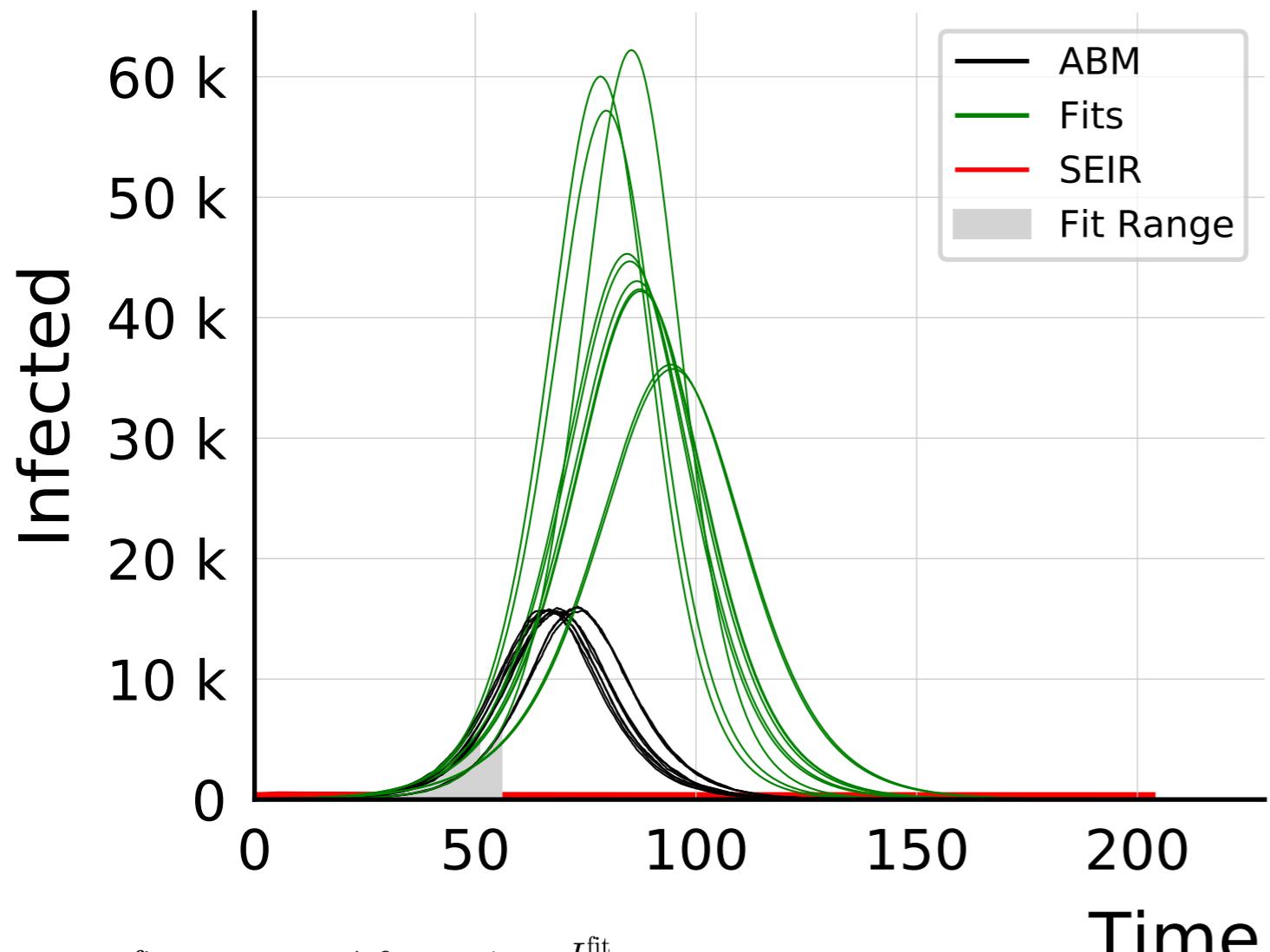


$$R_{\infty}^{\text{fit}} = 563_{-3}^{+9} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.77 \pm 0.0096$$

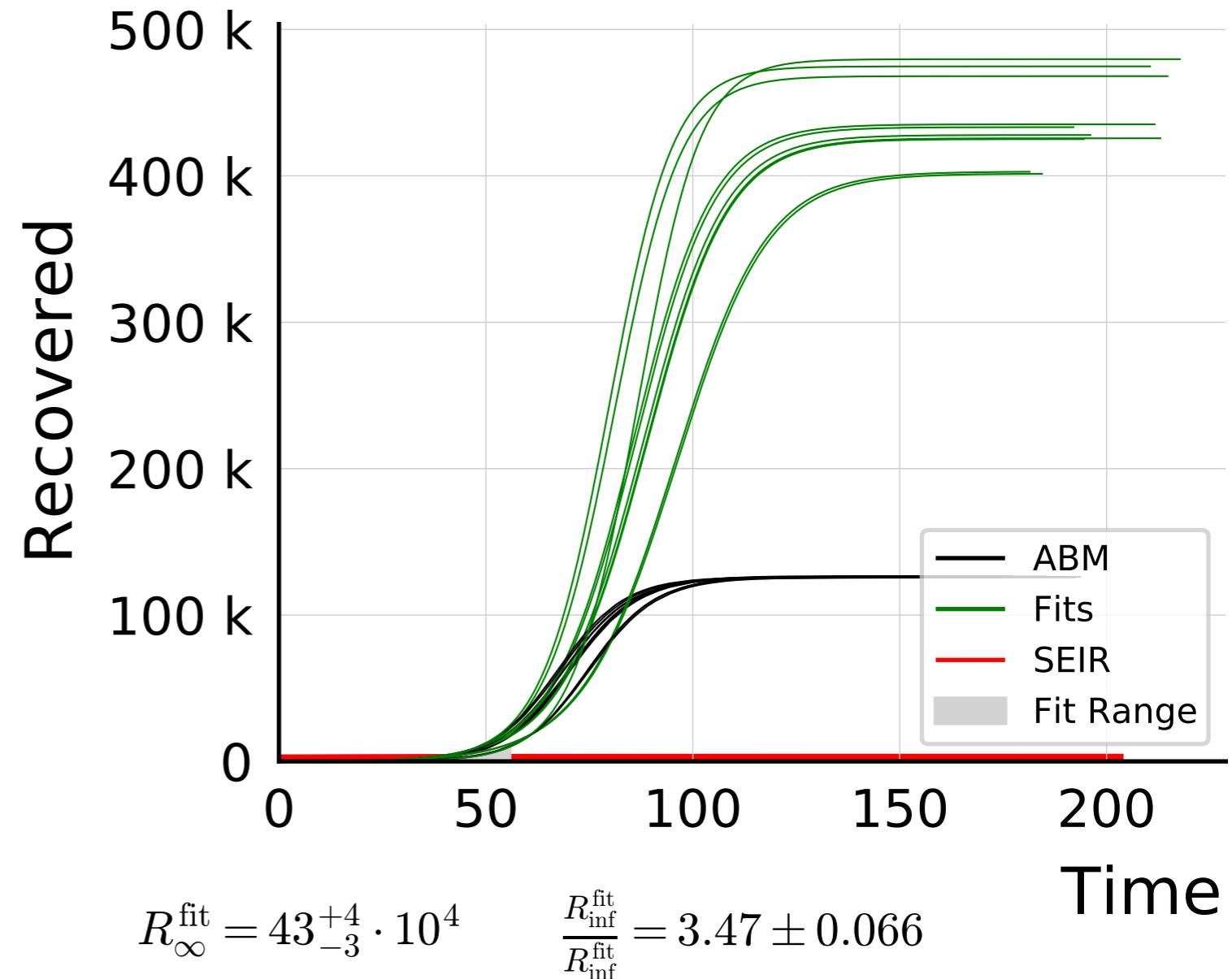
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.02$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

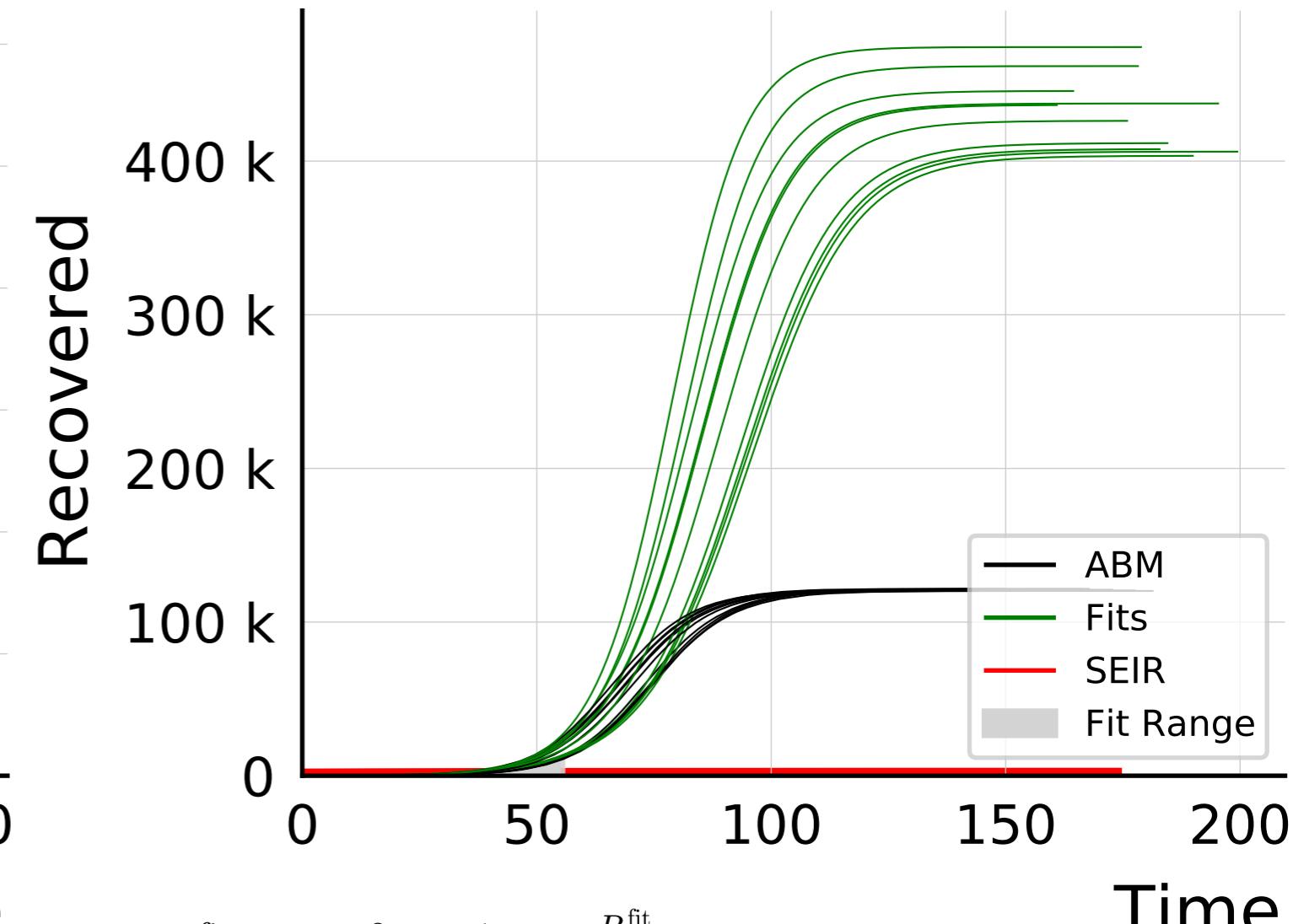
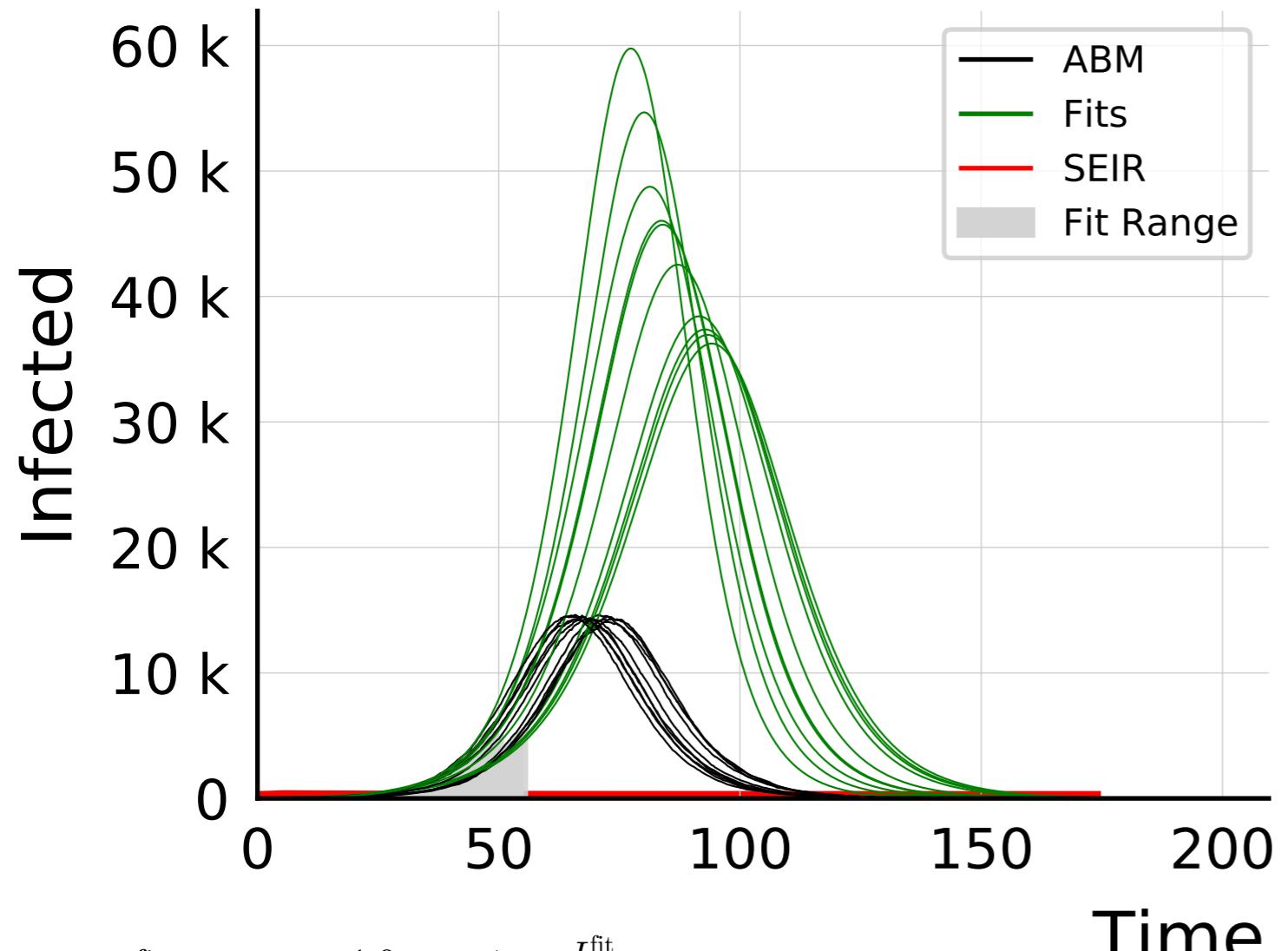


$$I_{\max}^{\text{fit}} = 4.4_{-0.8}^{+1.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3 \pm 0.18$$

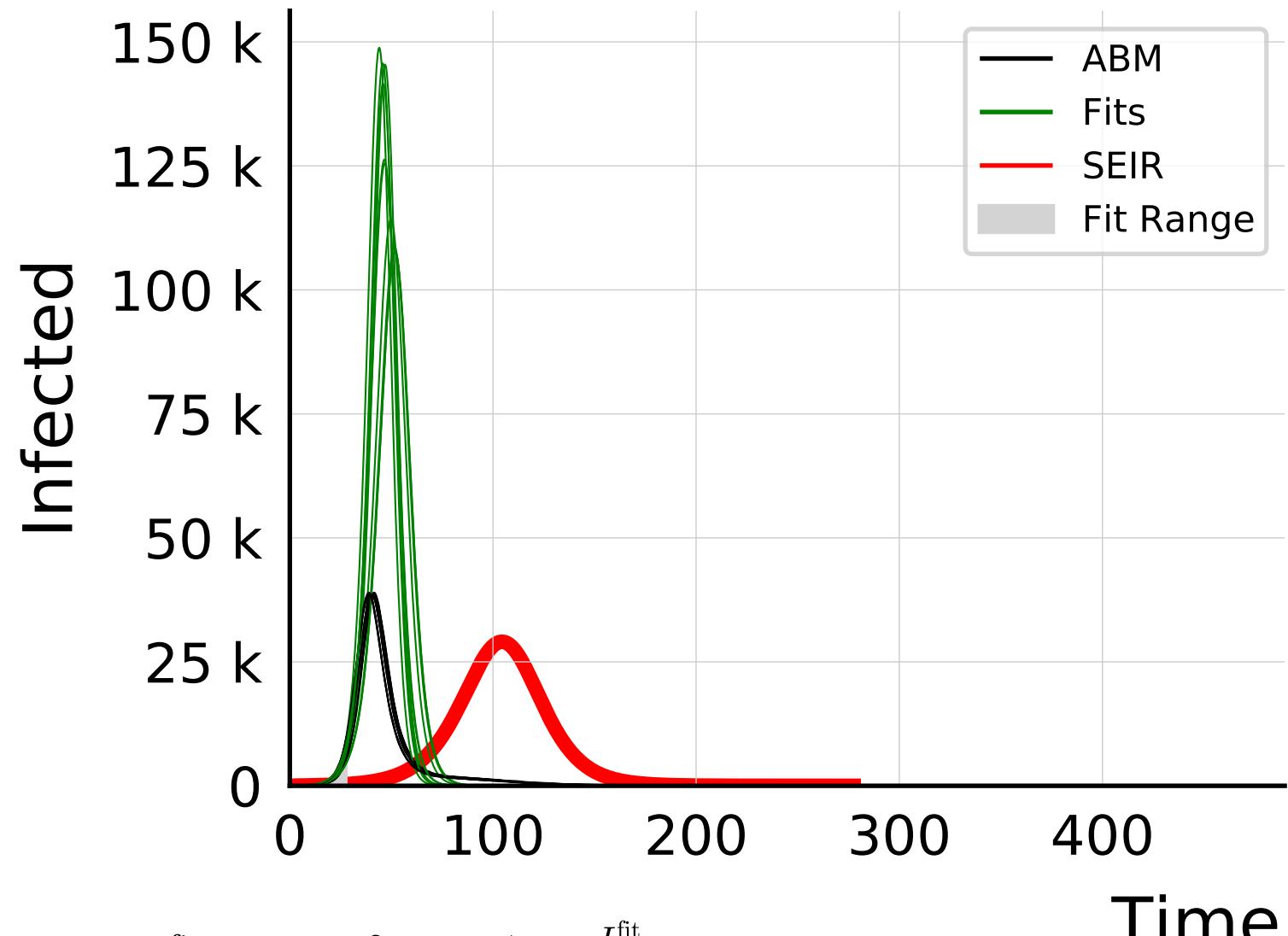


$$R_{\infty}^{\text{fit}} = 43_{-3}^{+4} \cdot 10^4 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 3.47 \pm 0.066$$

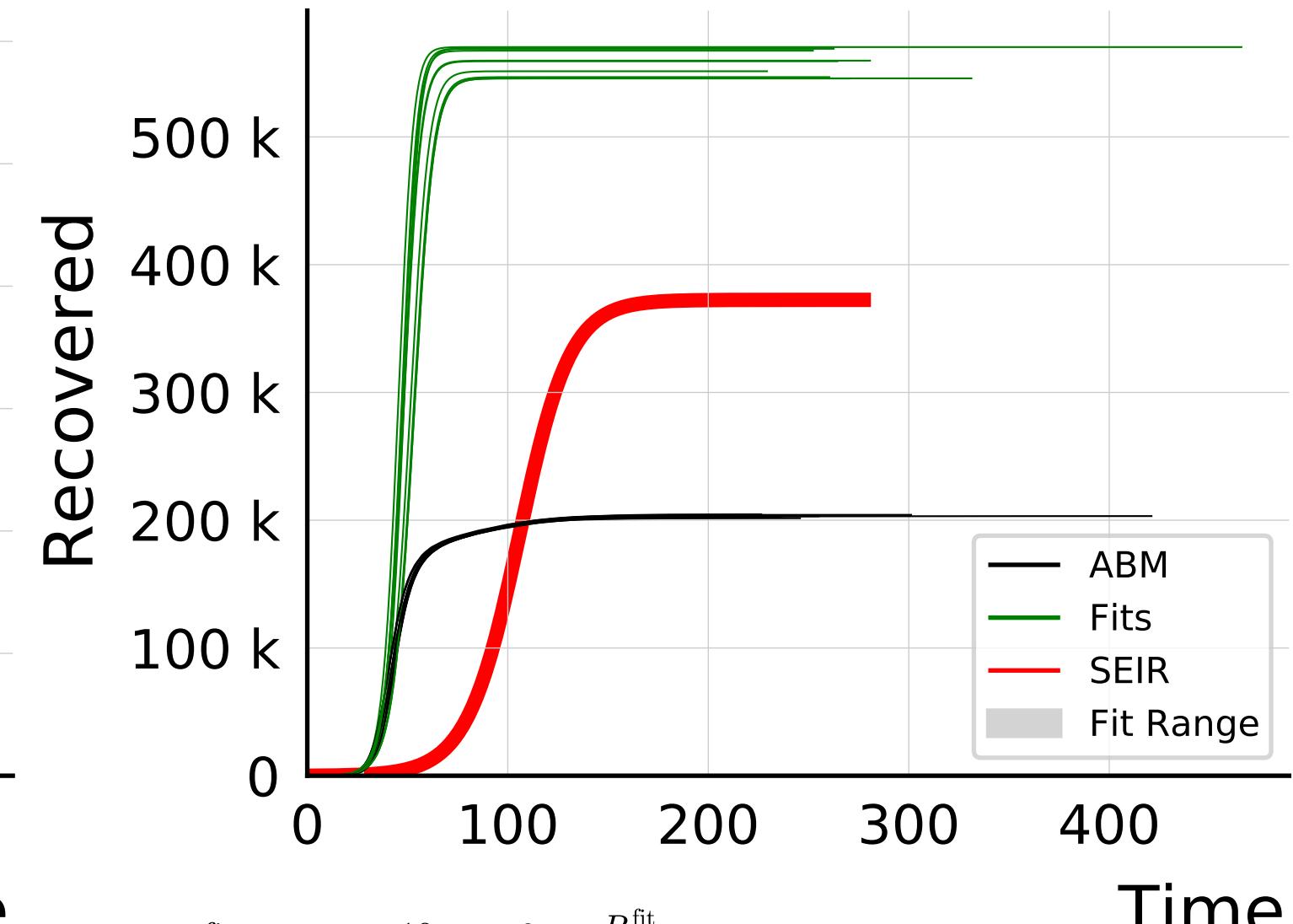
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

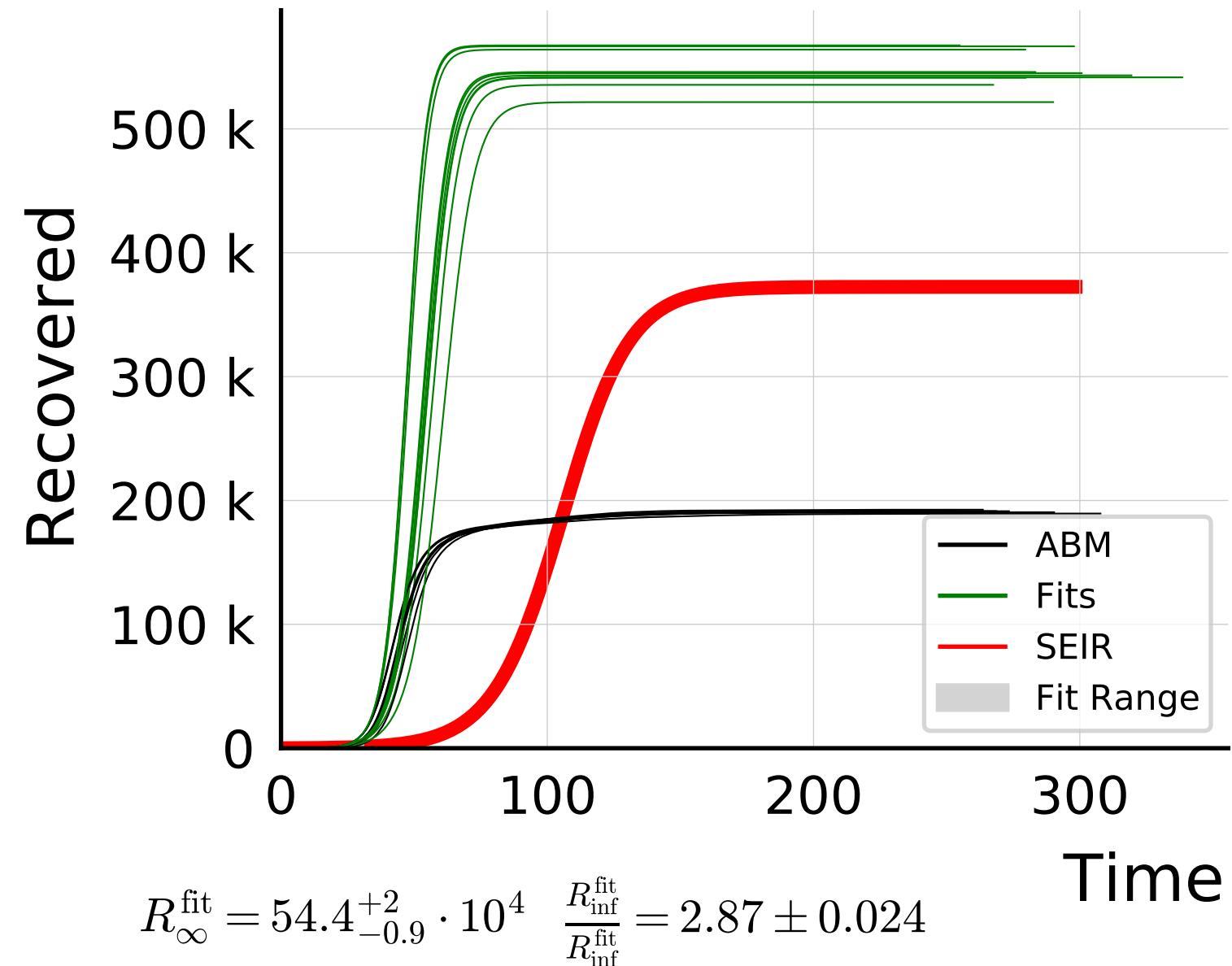
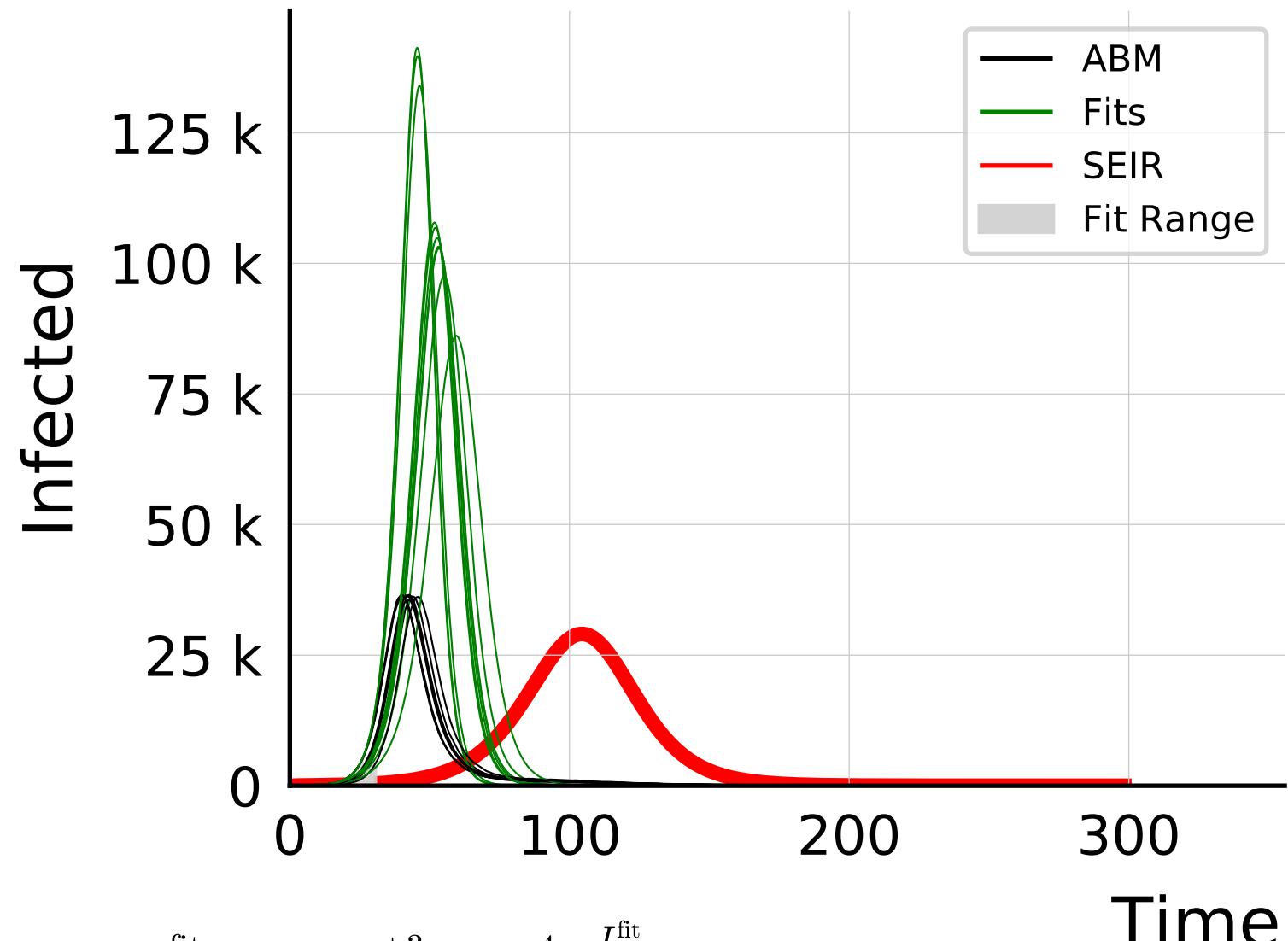


$$I_{\max}^{\text{fit}} = 13^{+2}_{-1.8} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.13$$

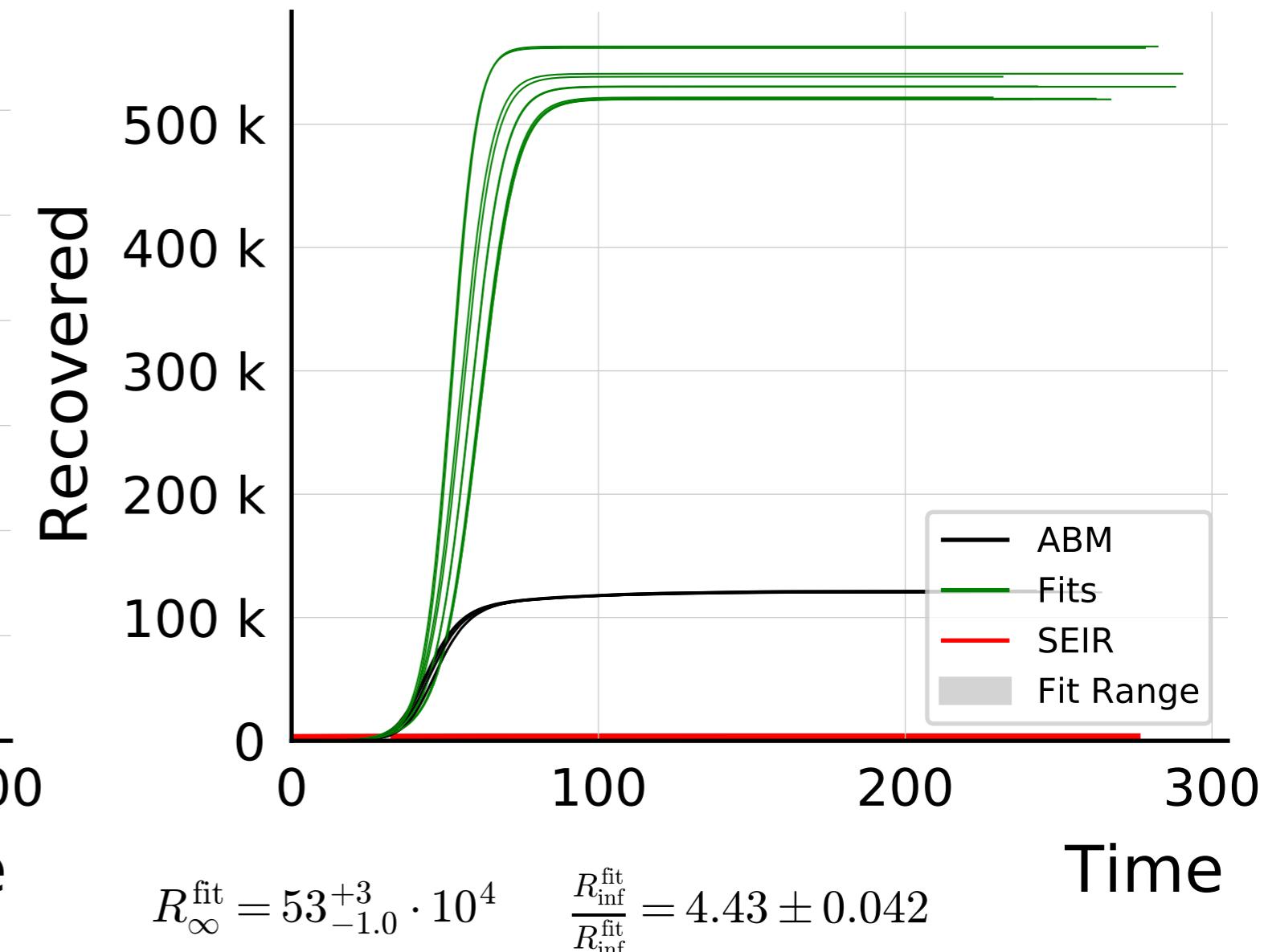
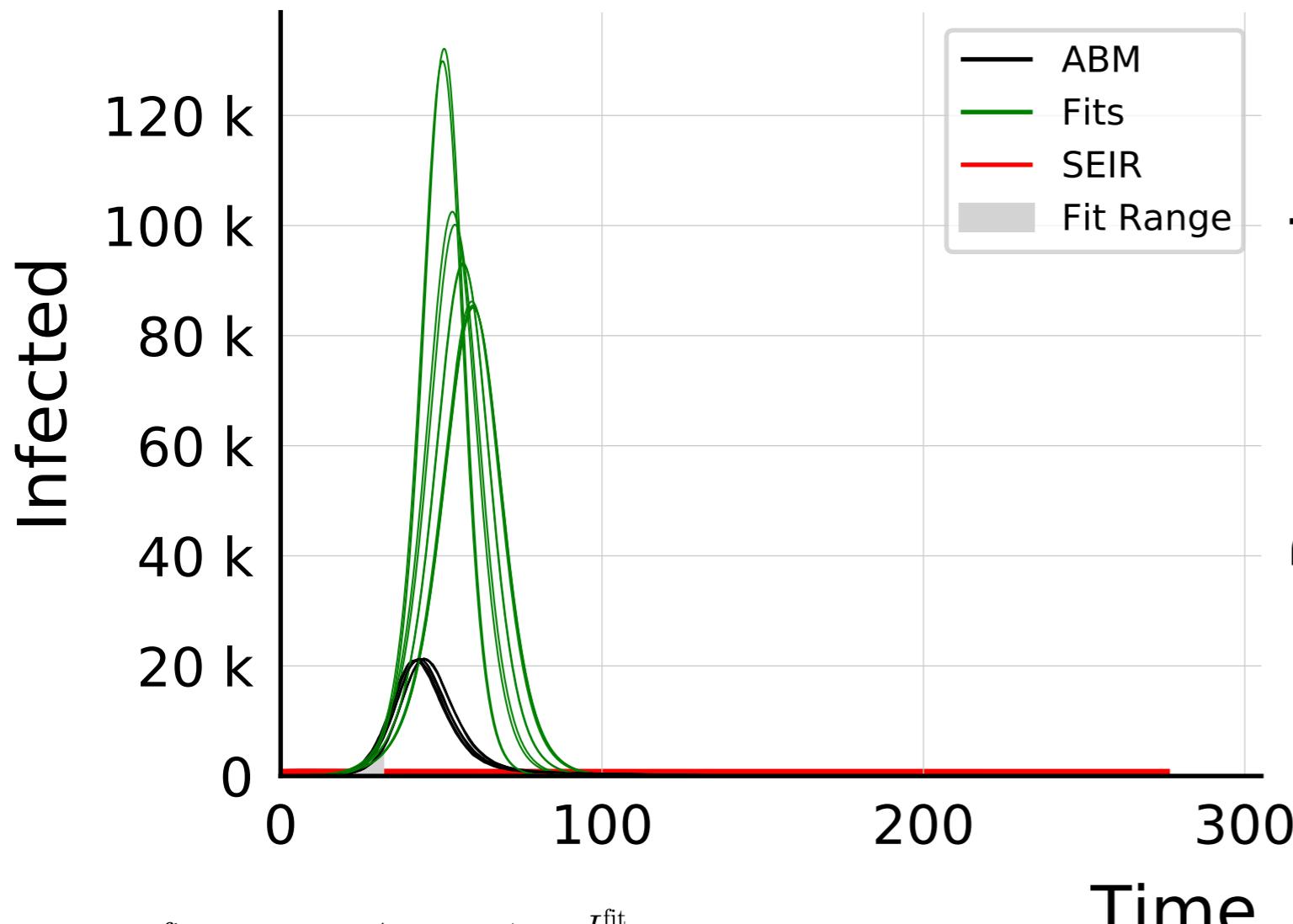


$$R_{\infty}^{\text{fit}} = 560^{+10}_{-14} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.75 \pm 0.015$$

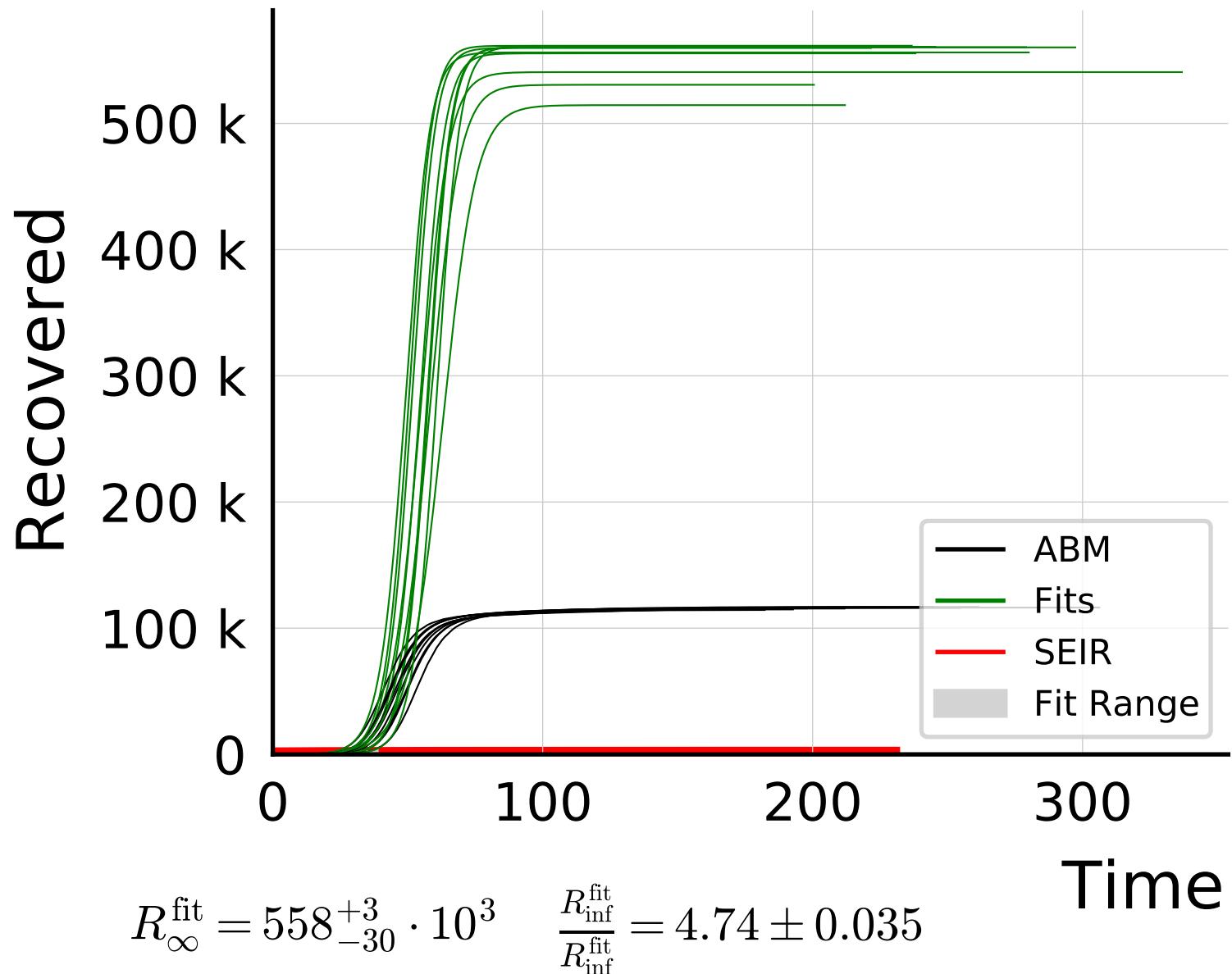
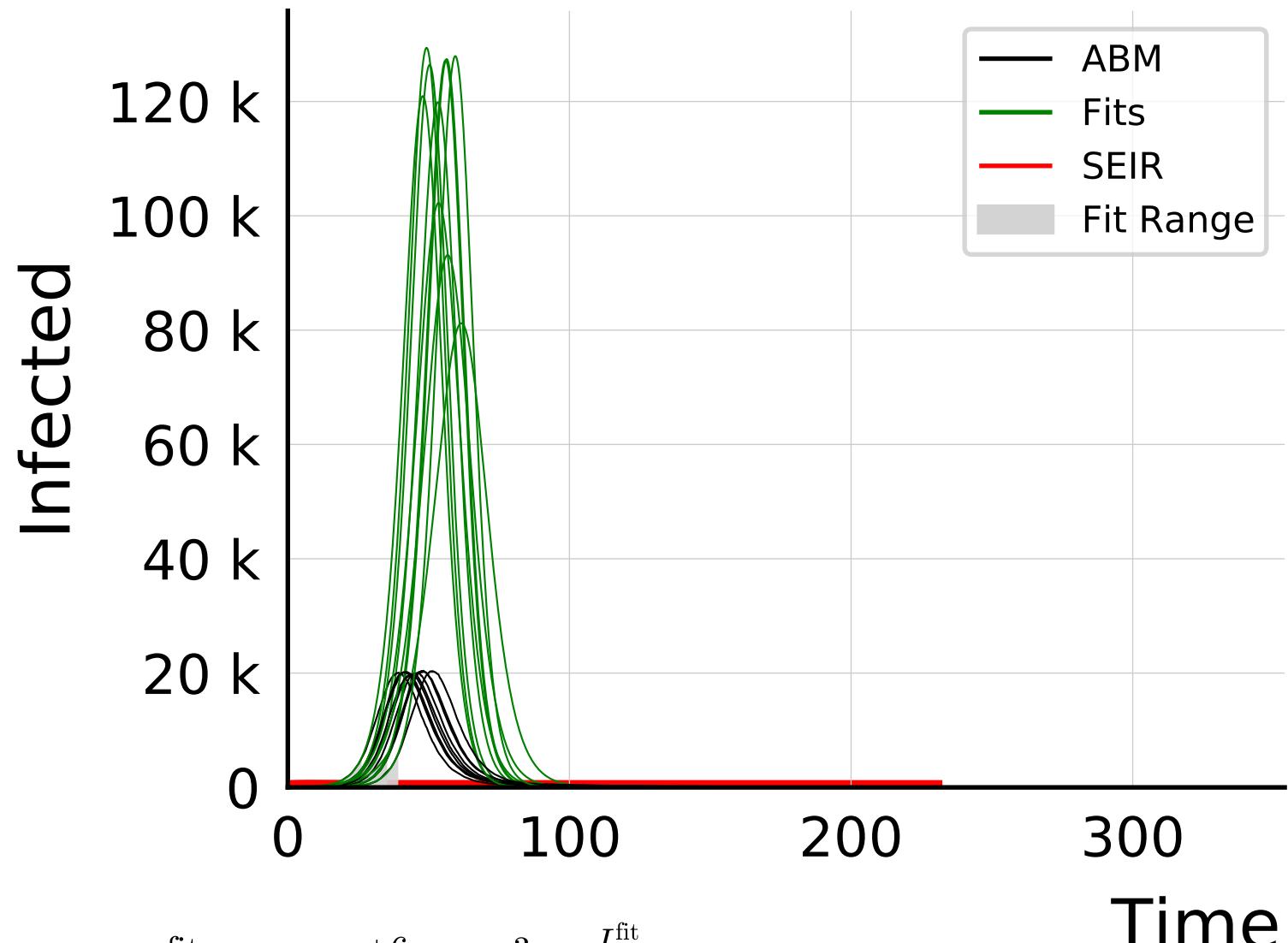
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



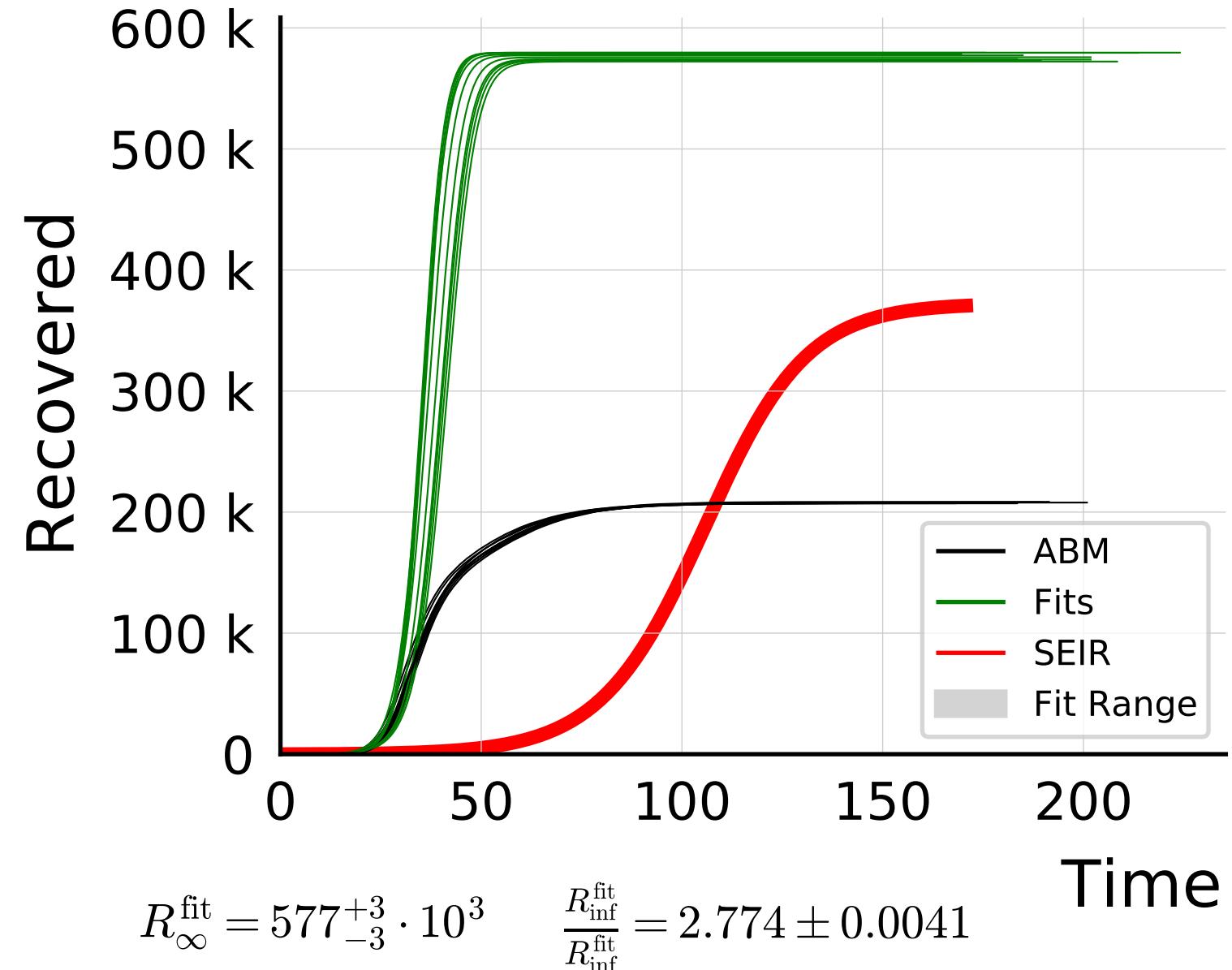
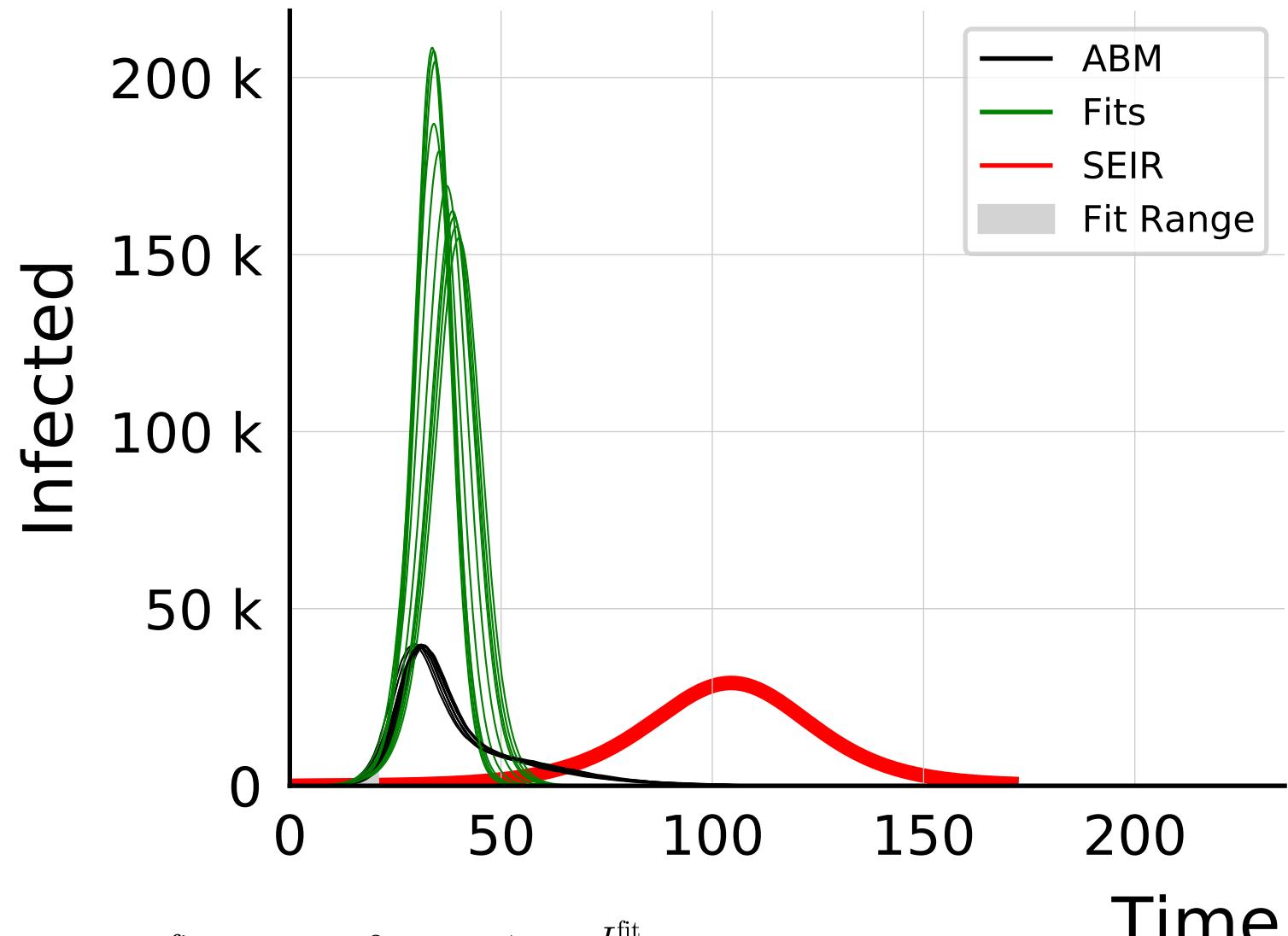
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



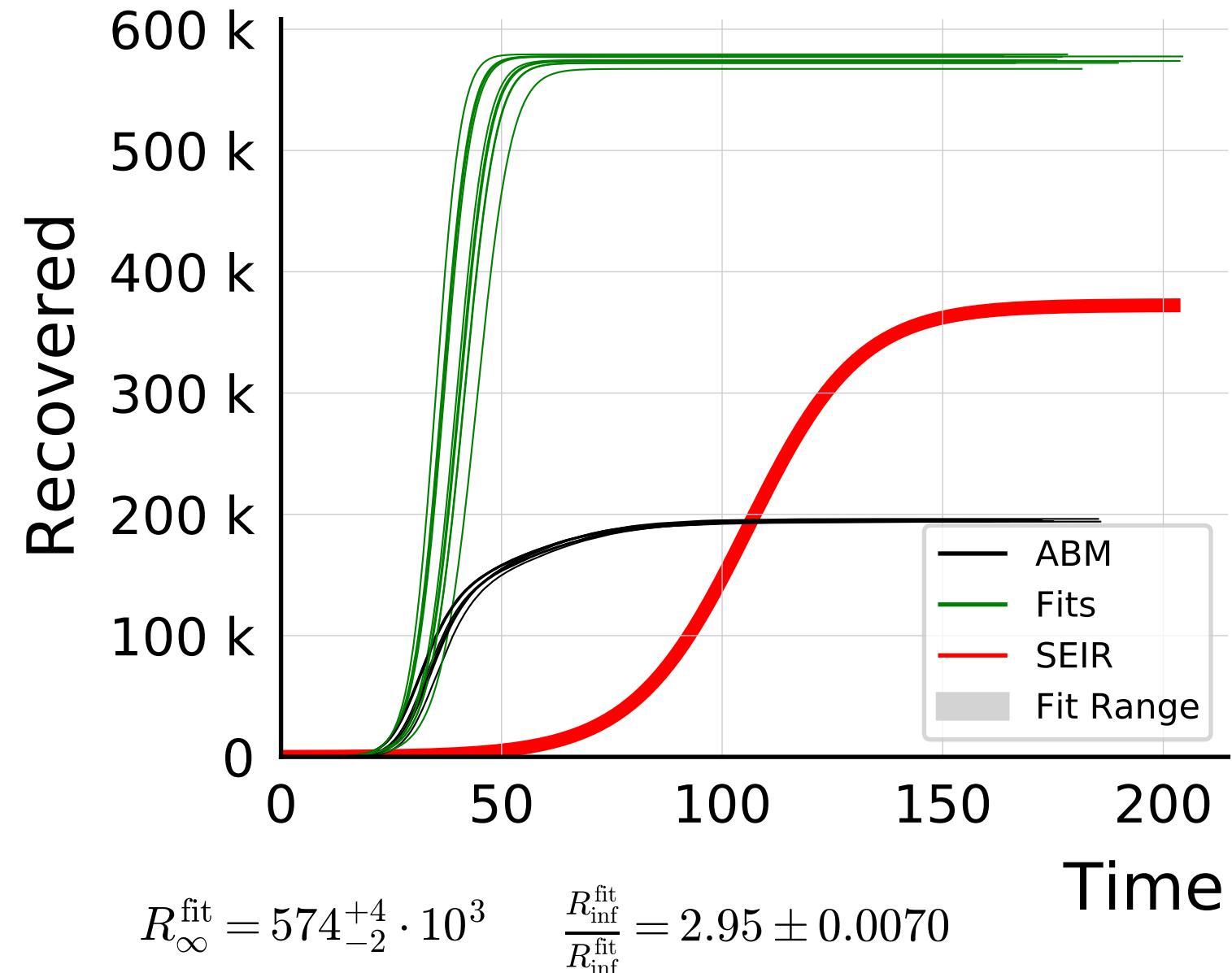
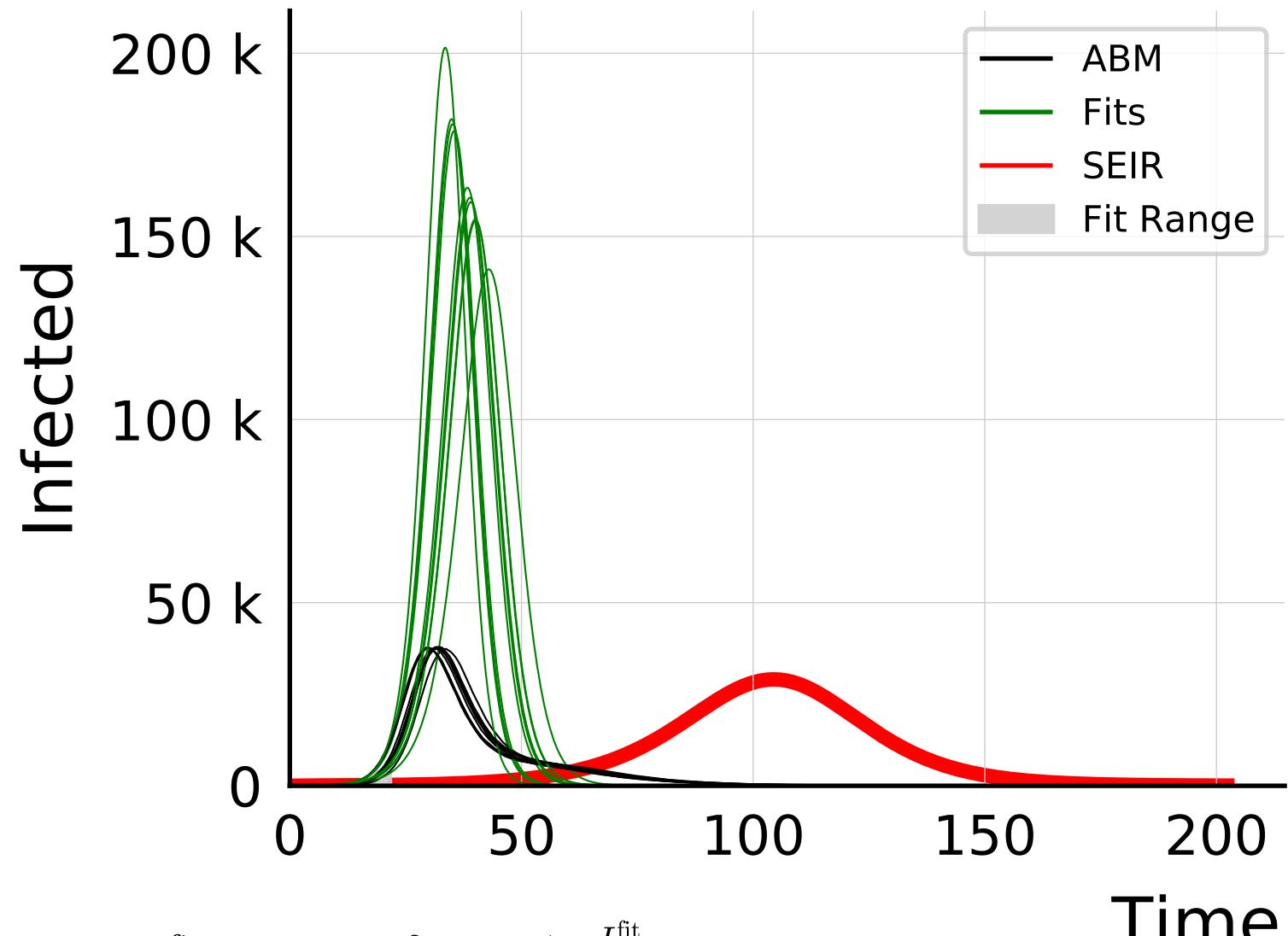
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



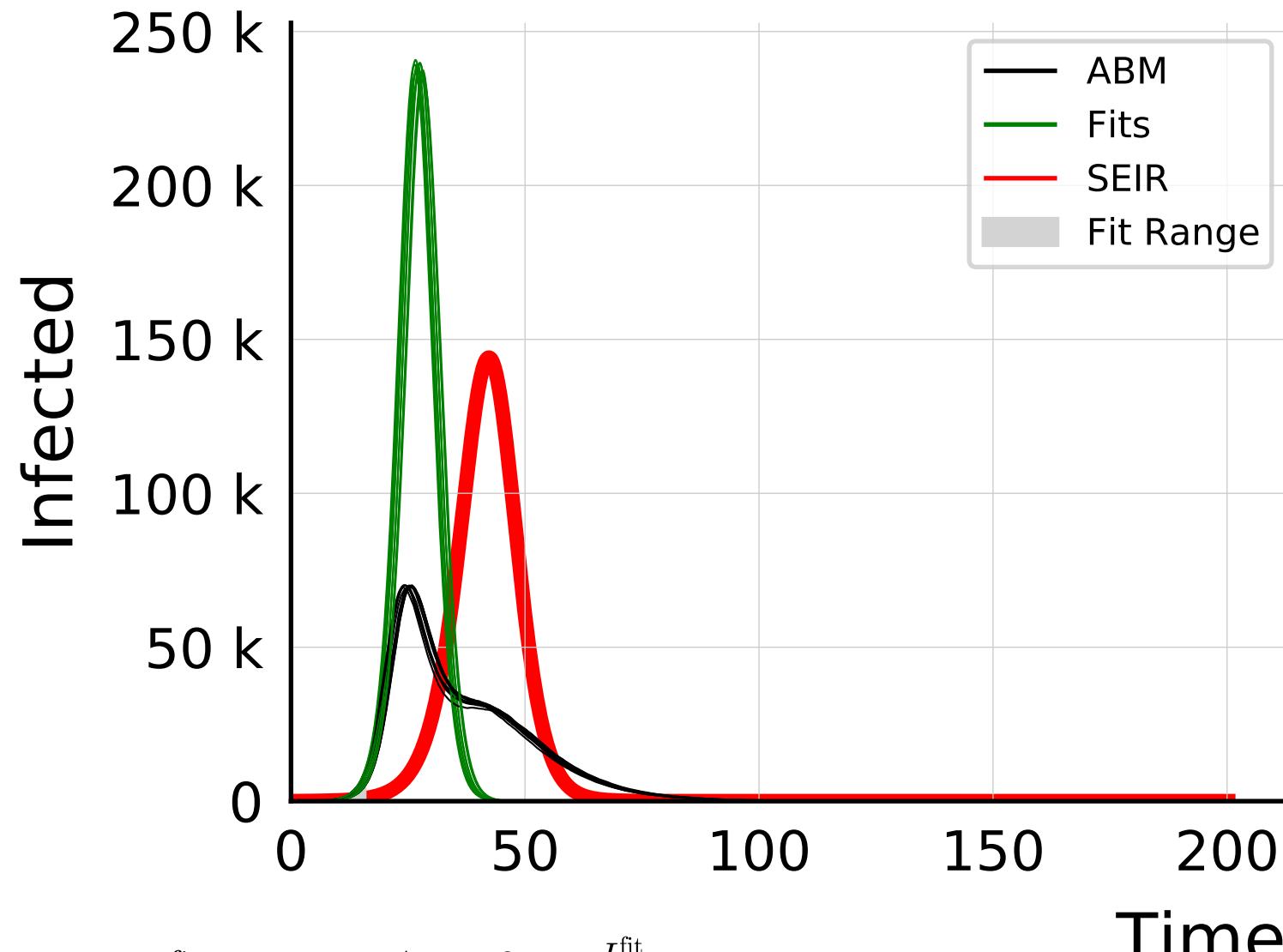
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



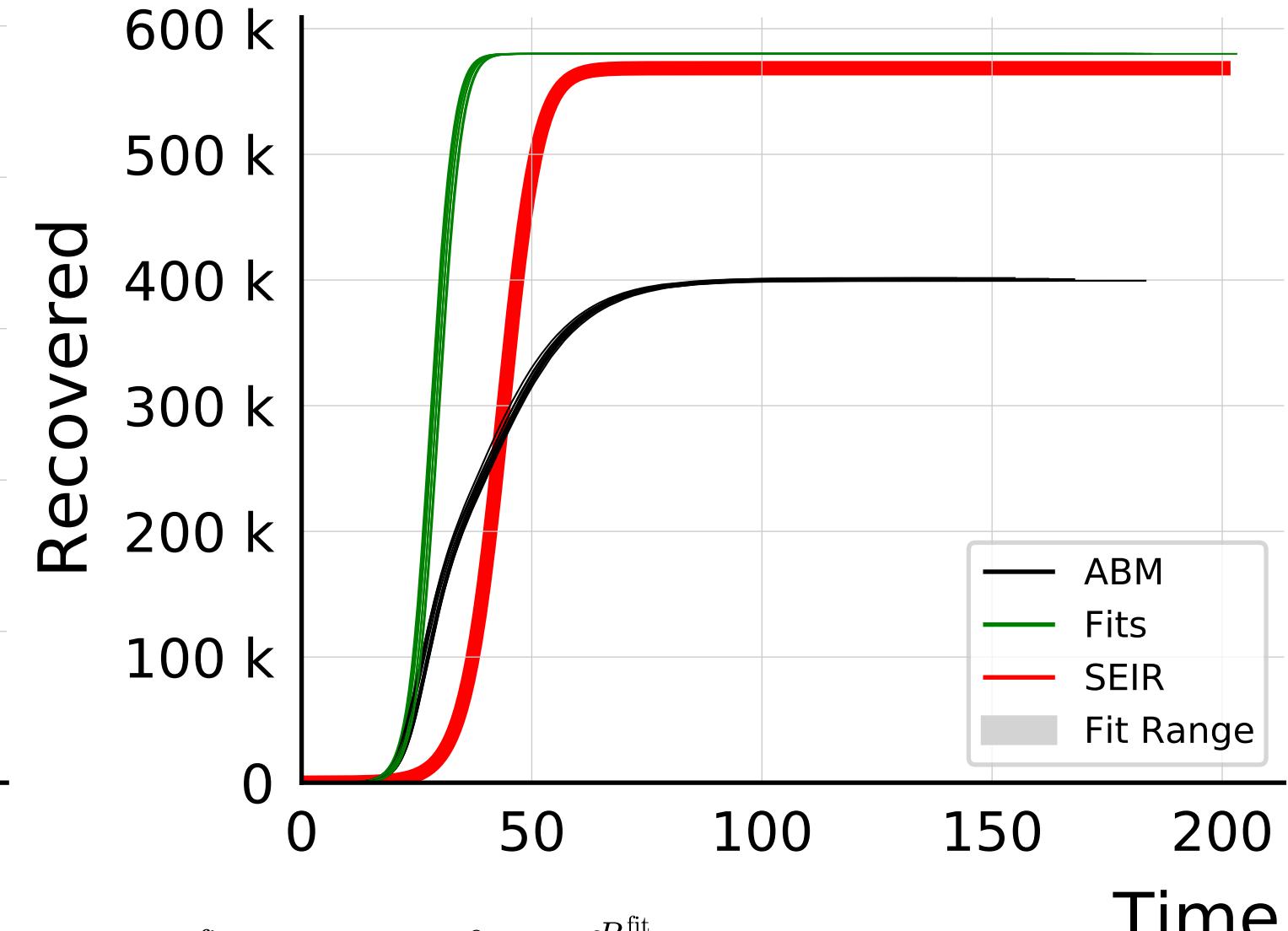
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 100.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

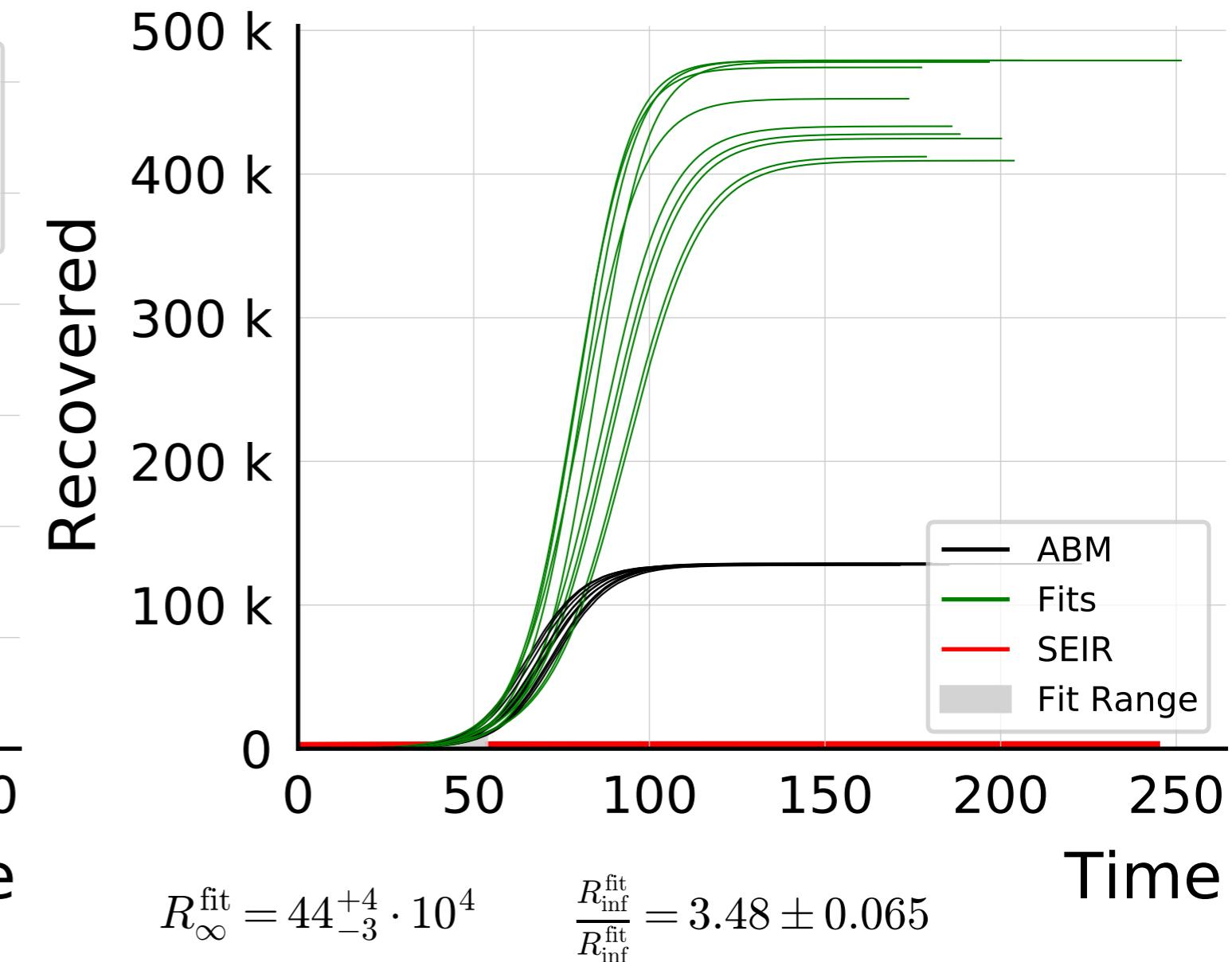
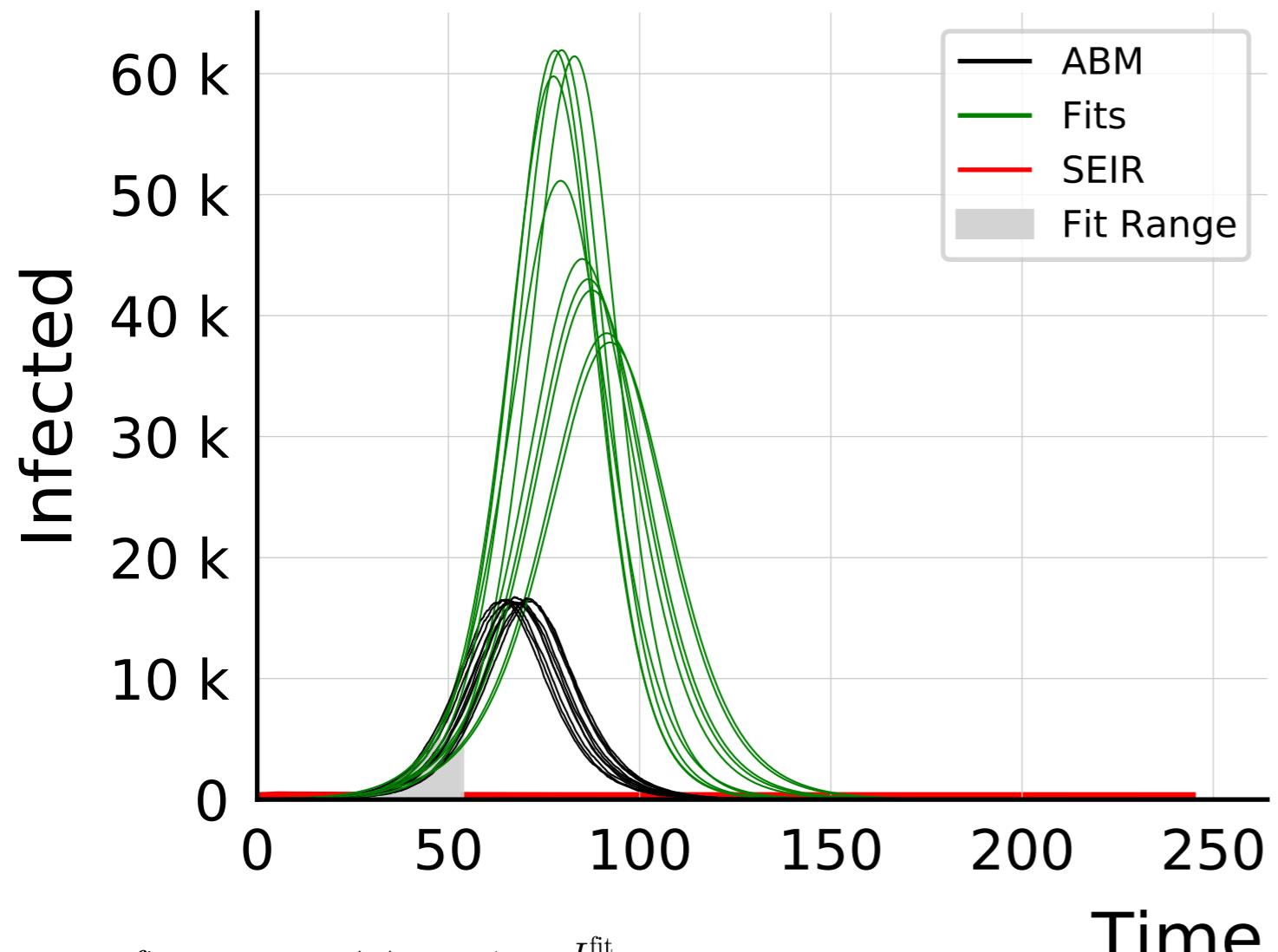


$$I_{\max}^{\text{fit}} = 237_{-3}^{+4} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.4 \pm 0.013$$

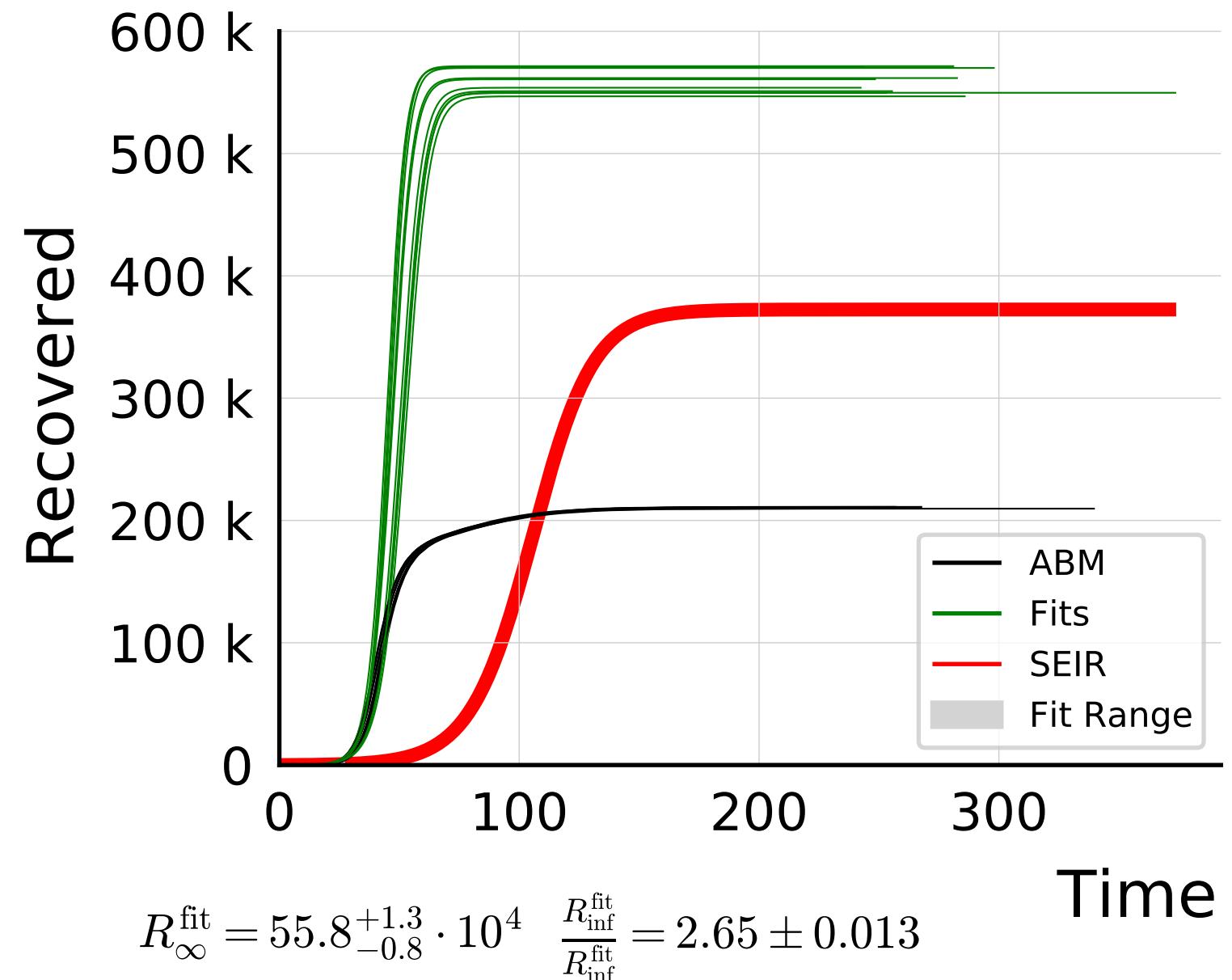
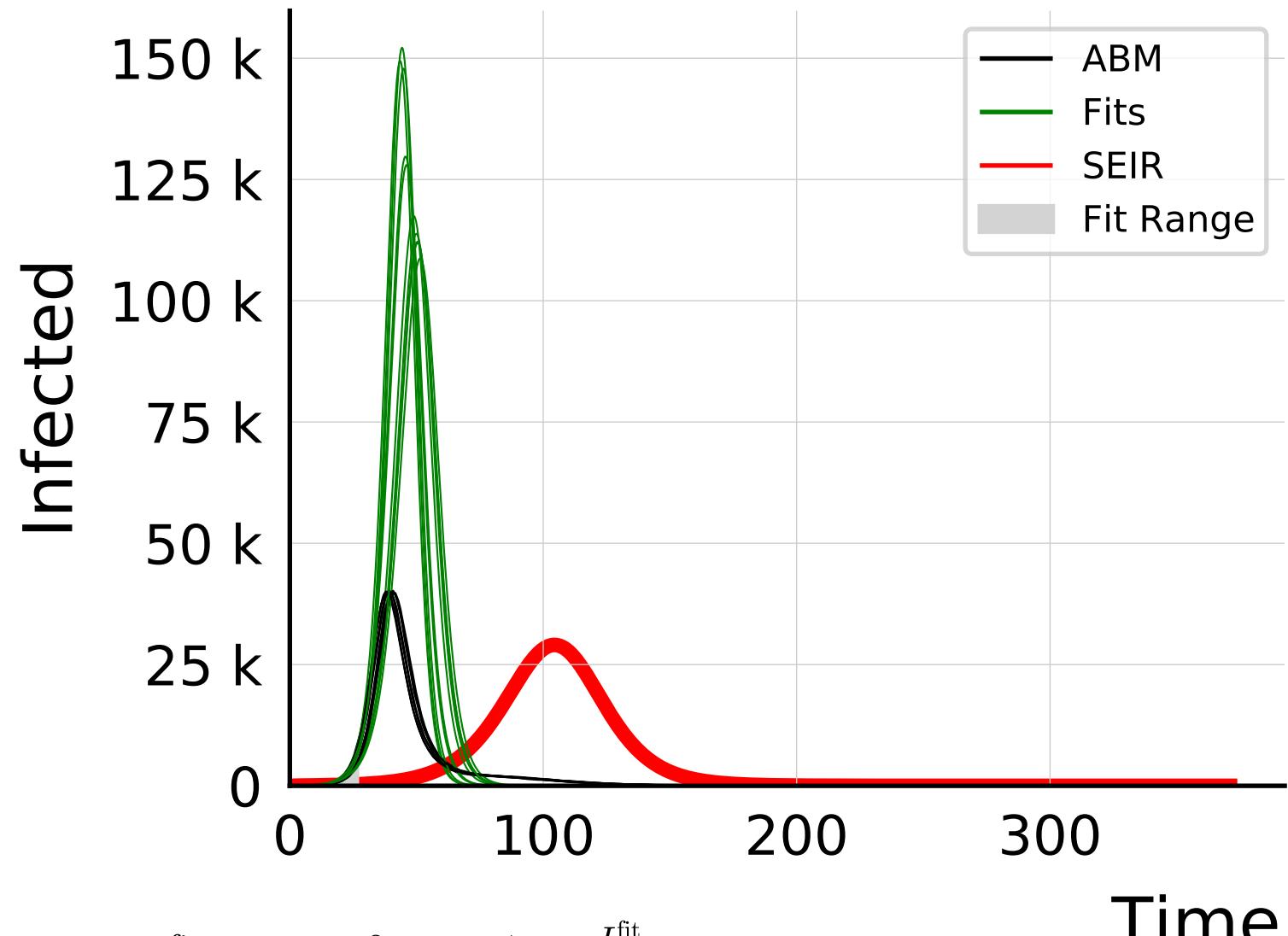


$$R_{\infty}^{\text{fit}} = 579976_{-13}^{+9} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.4485 \pm 0.00084$$

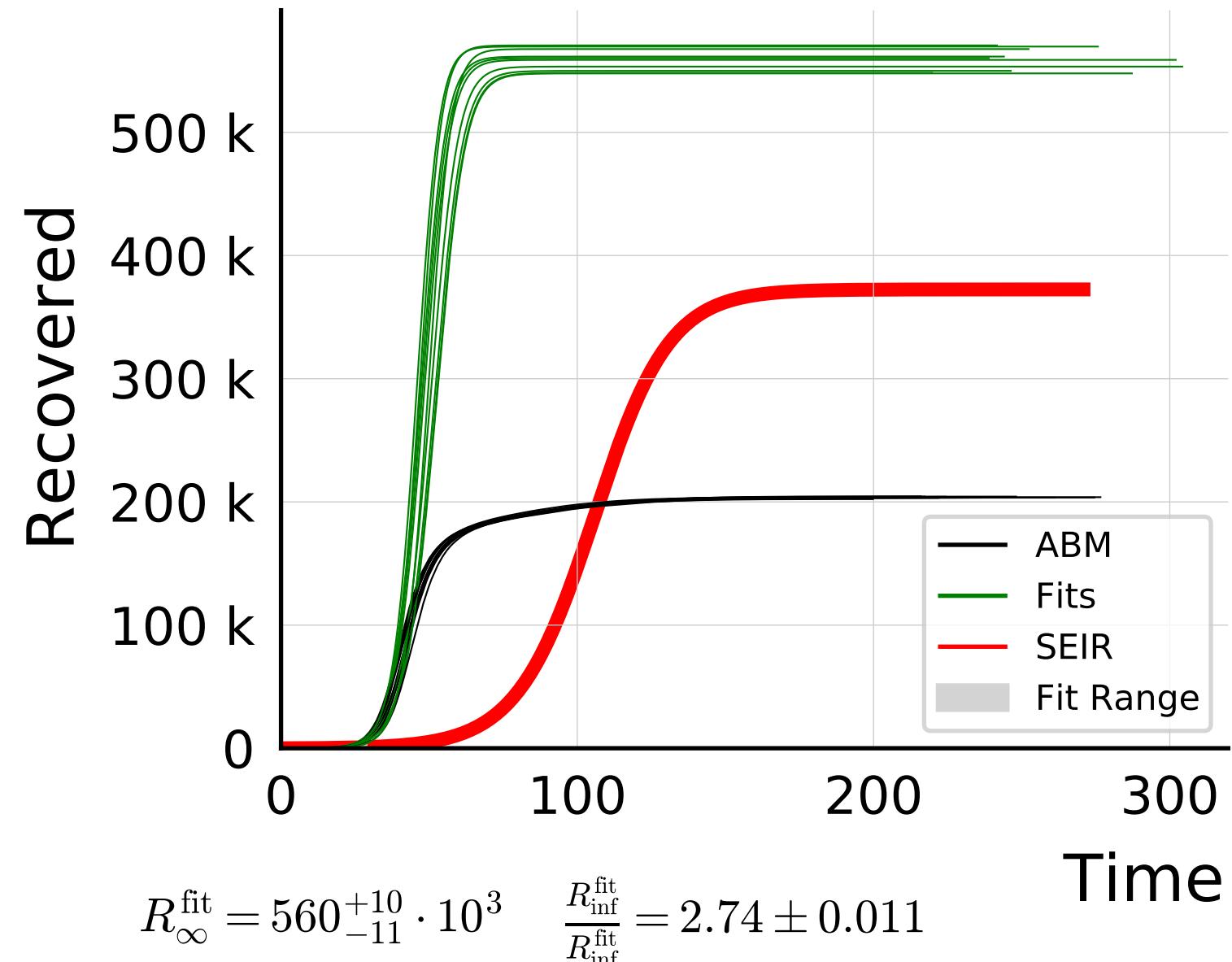
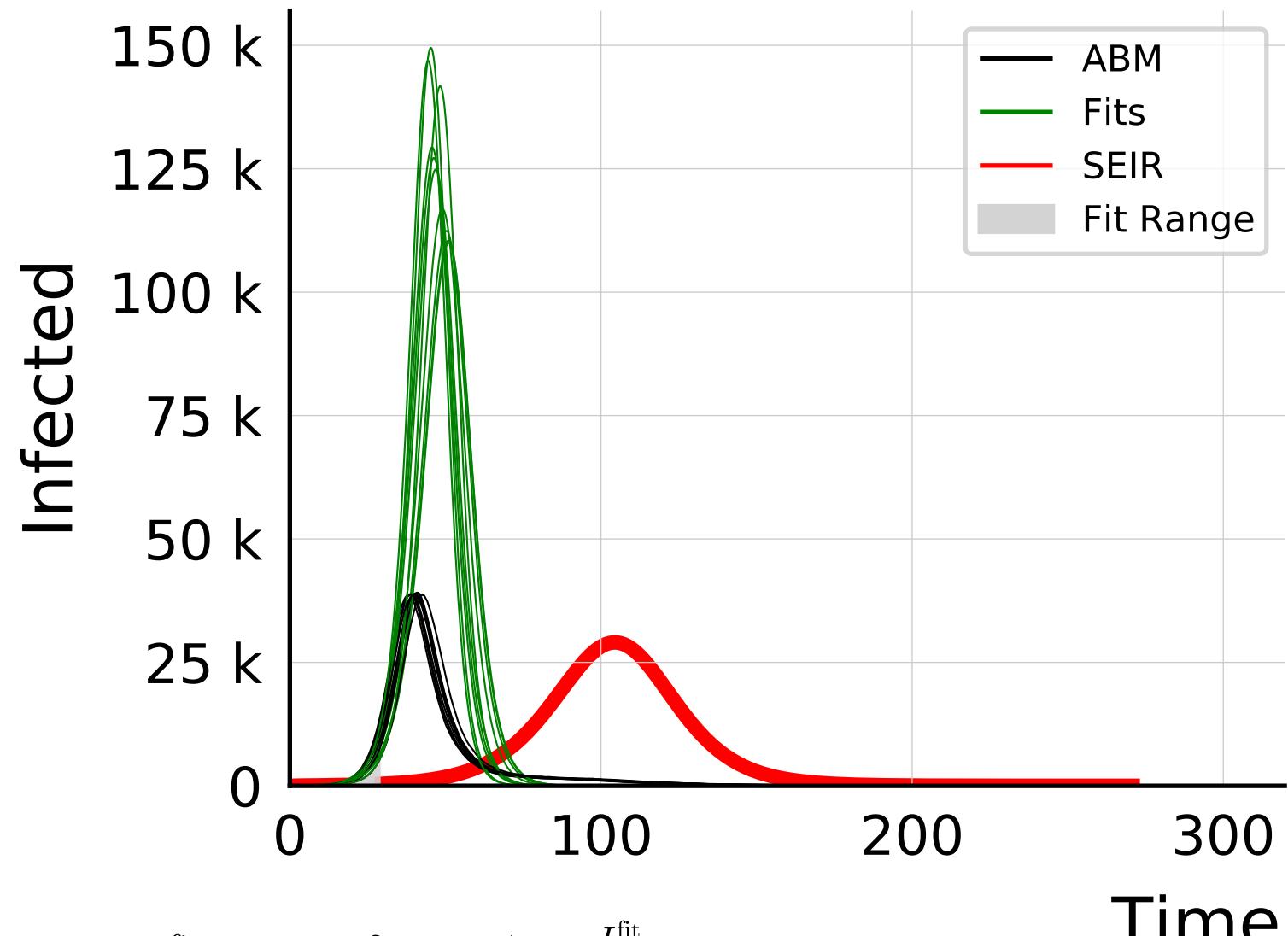
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



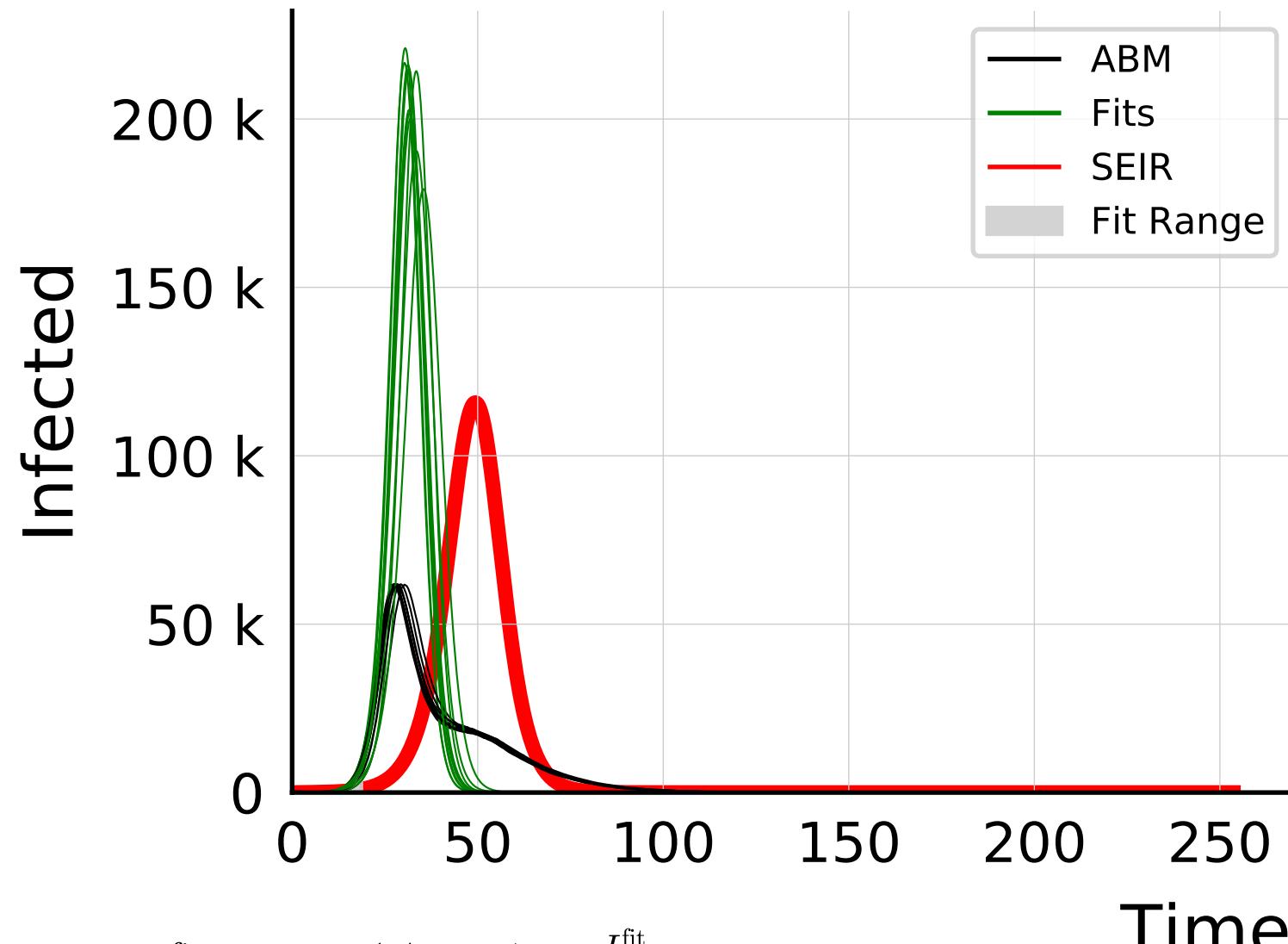
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

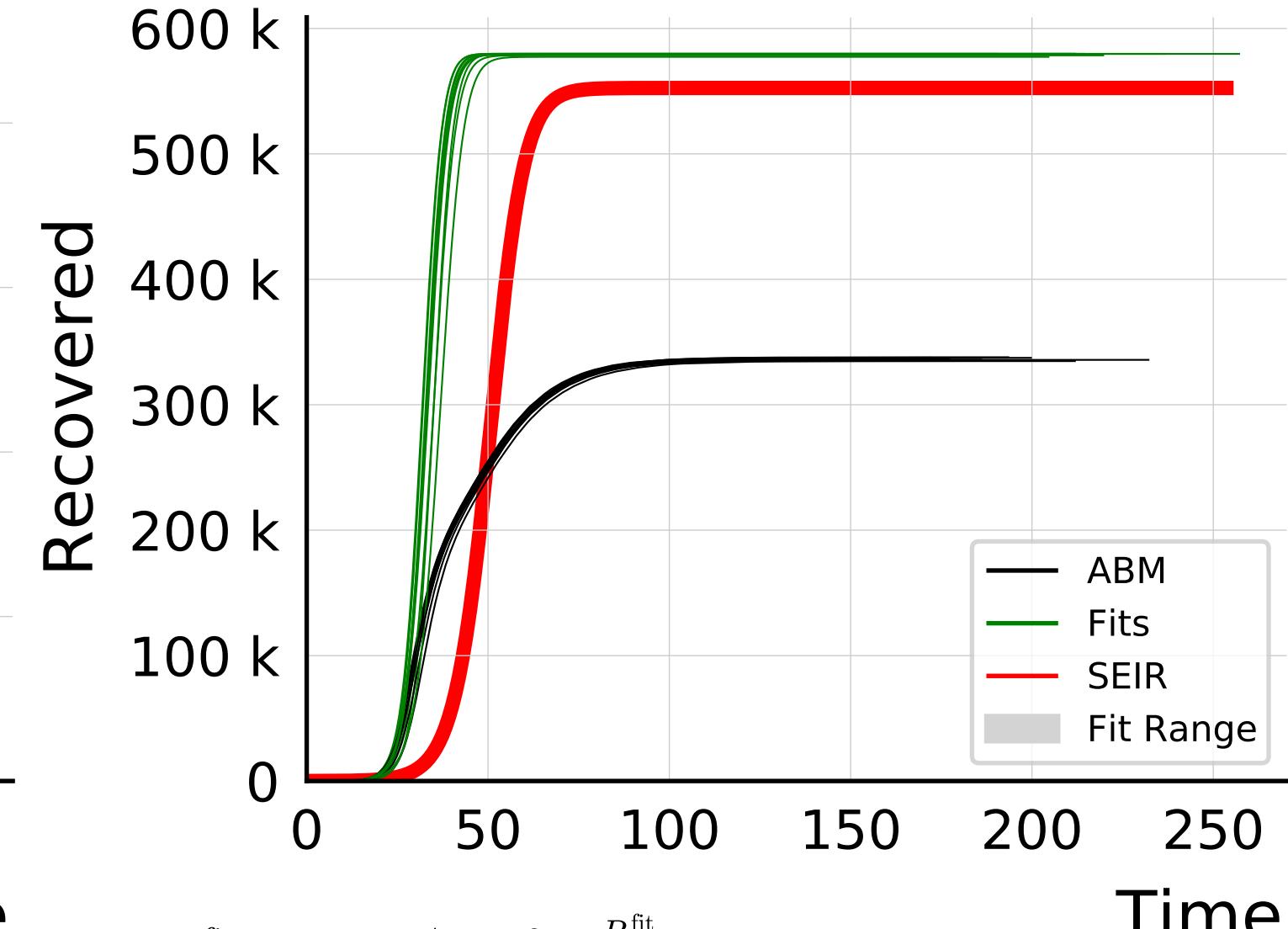


$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 20^{+1.4}_{-1.4} \cdot 10^4$$

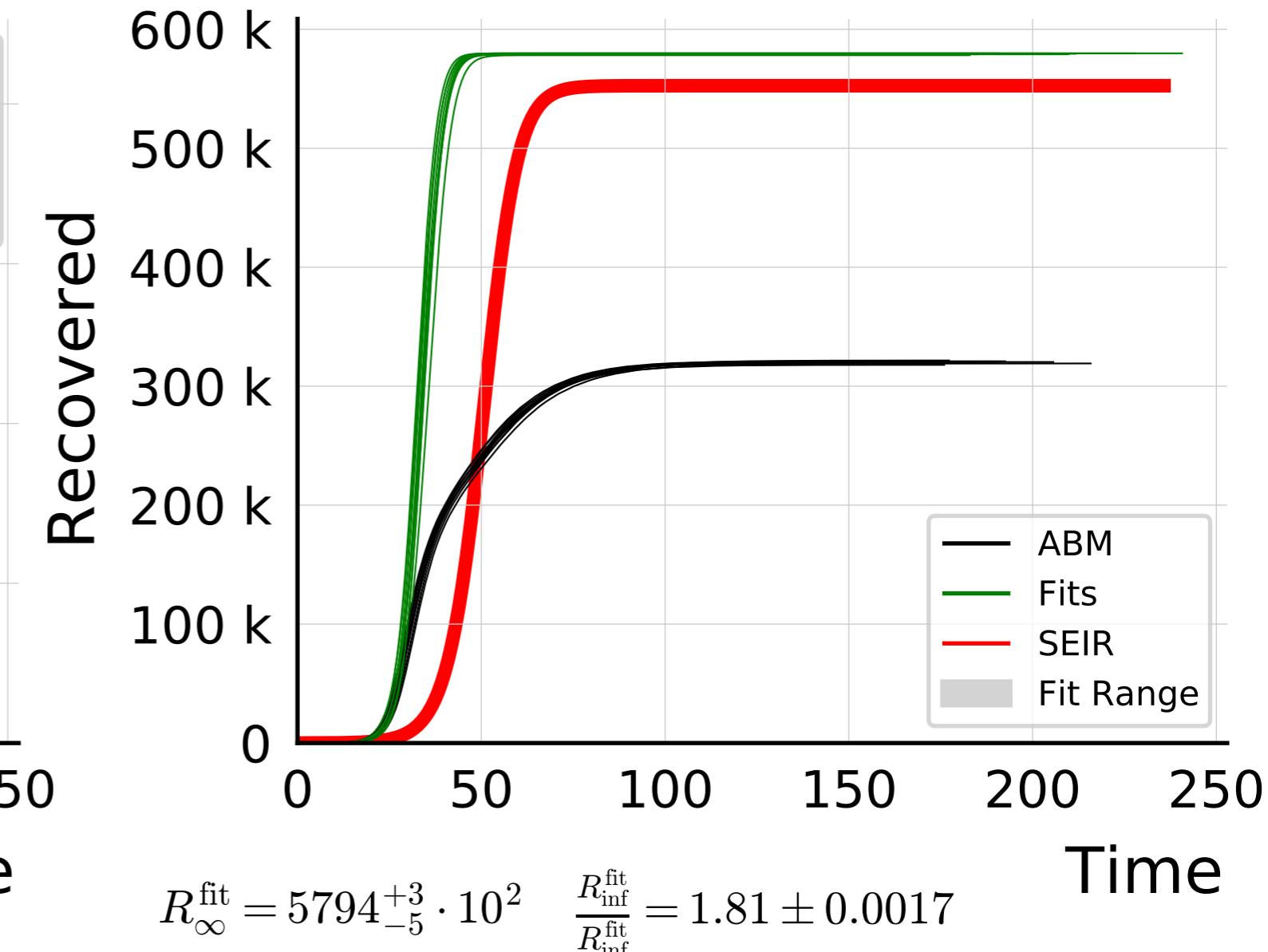
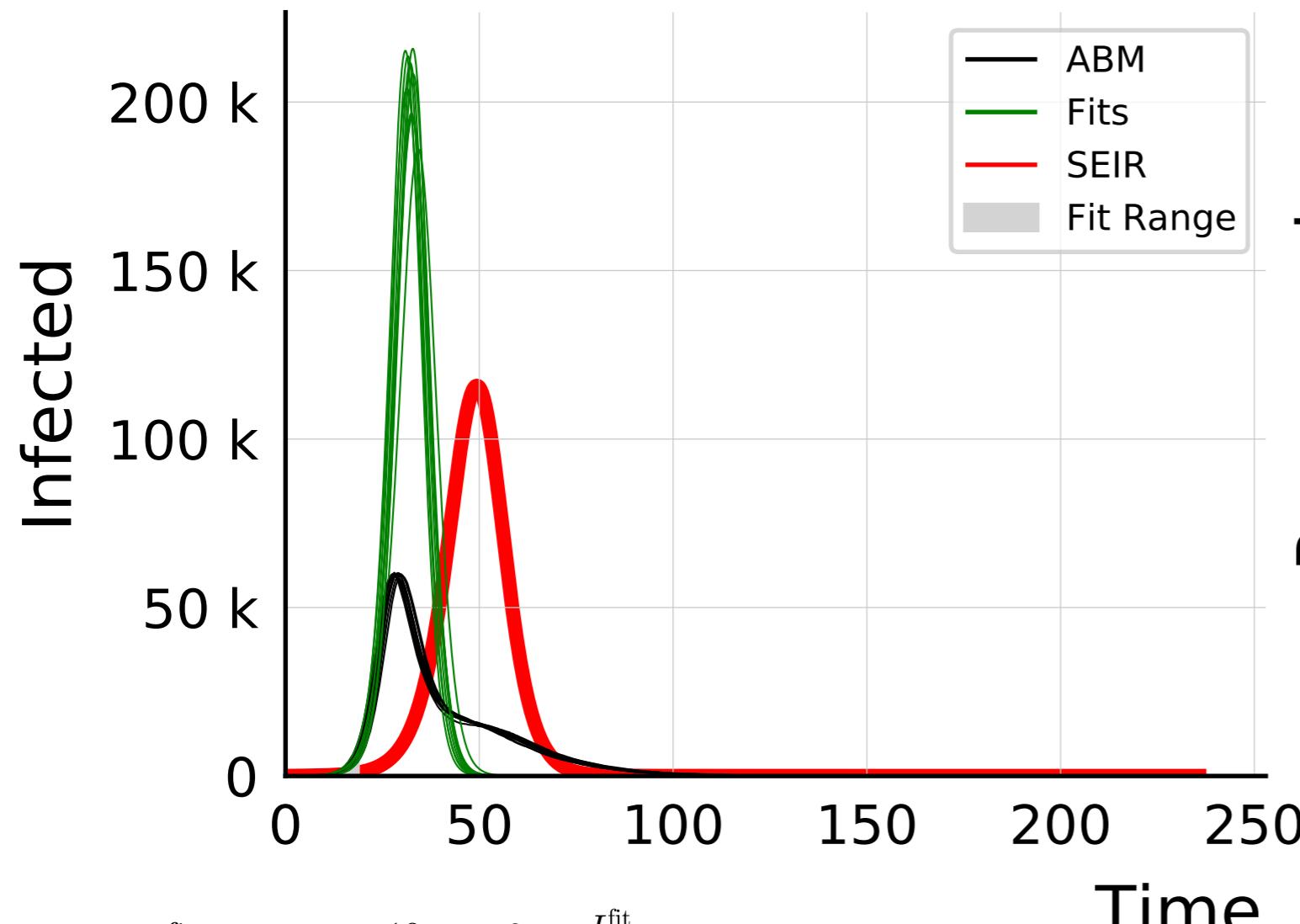
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.34 \pm 0.065$$



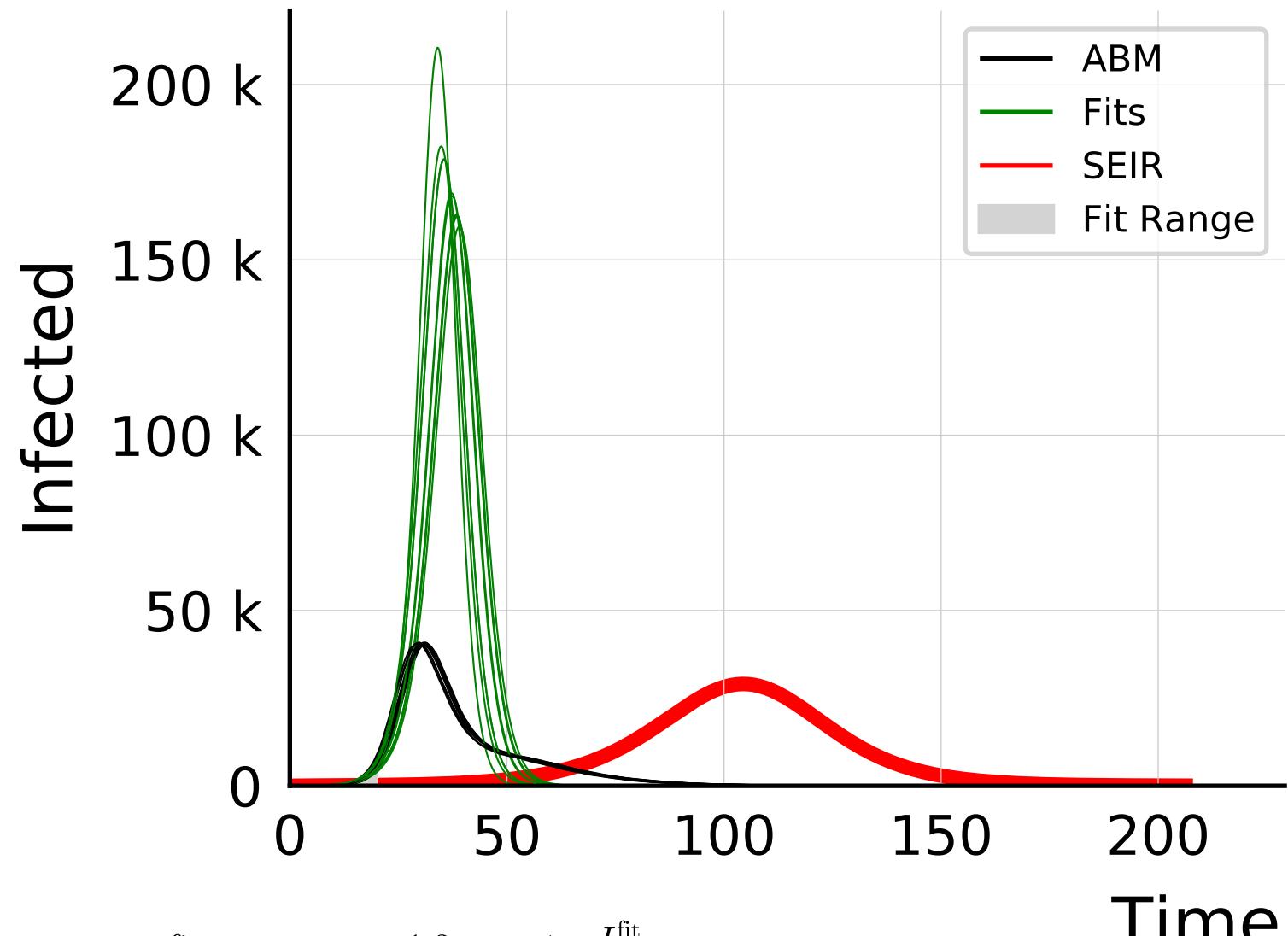
$$R_{\infty}^{\text{fit}} = 5794^{+4}_{-8} \cdot 10^2$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.721 \pm 0.0019$$

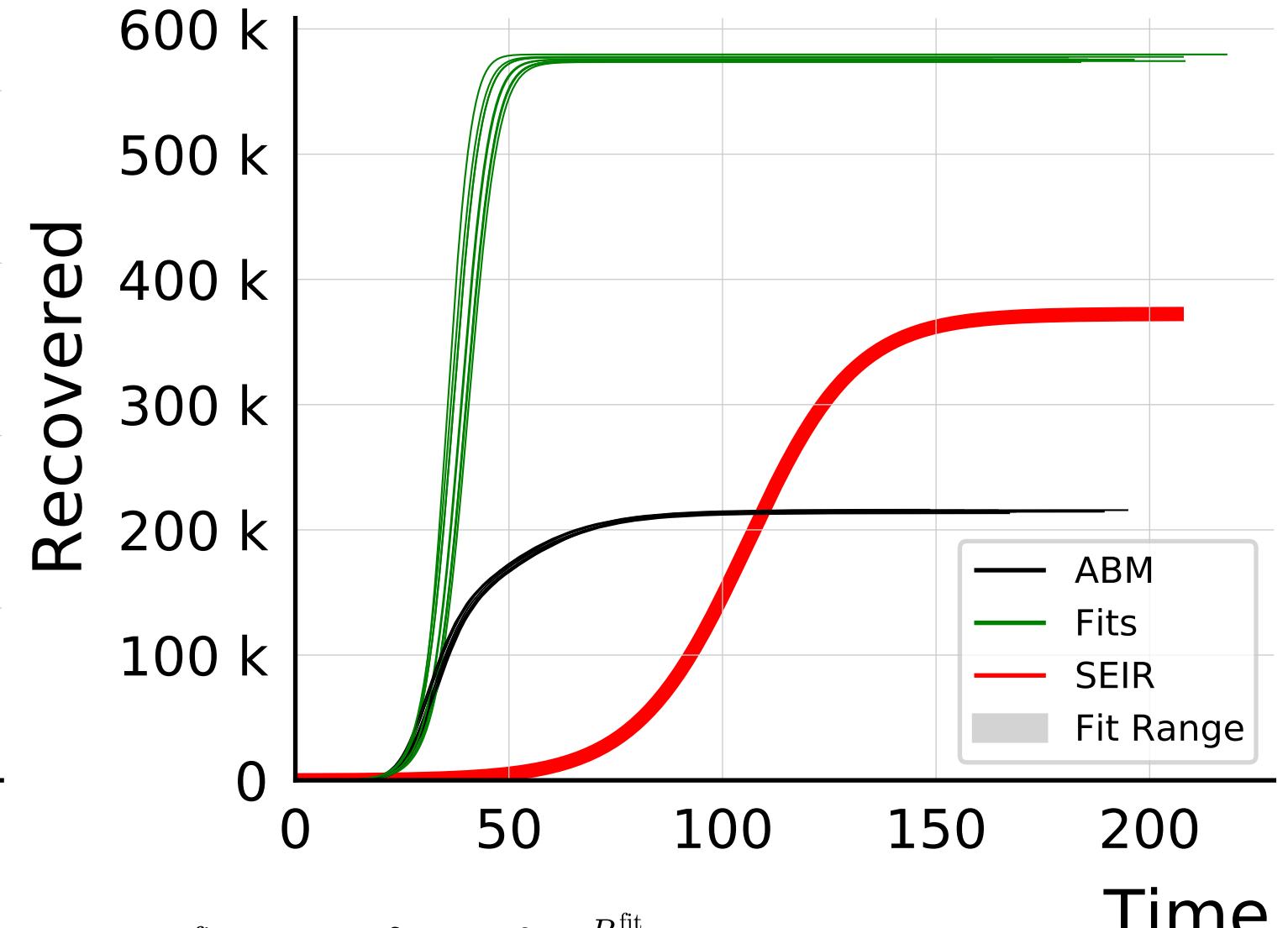
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 0.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

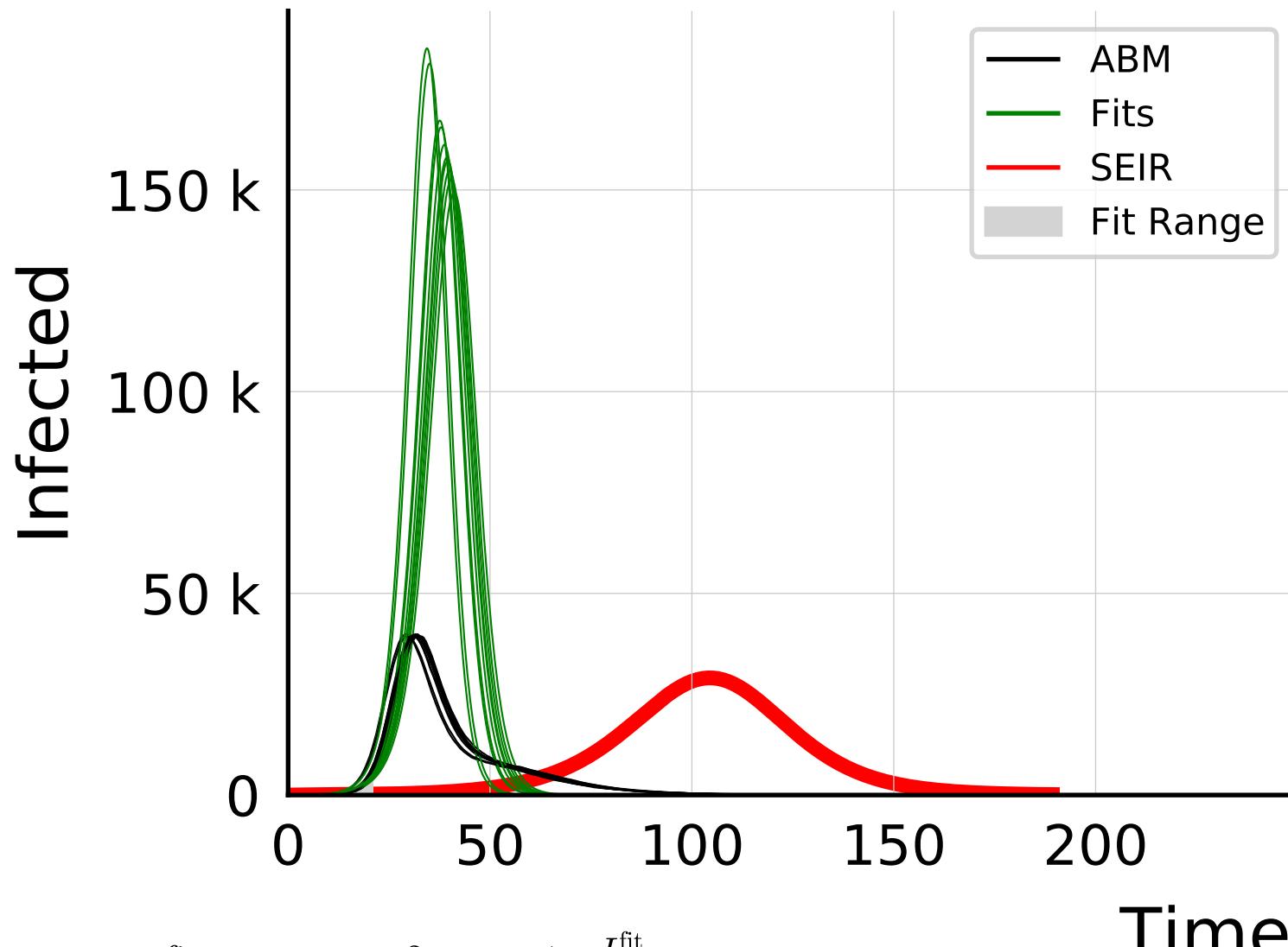


$$I_{\max}^{\text{fit}} = 16.9_{-0.7}^{+1.3} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.3 \pm 0.11$$

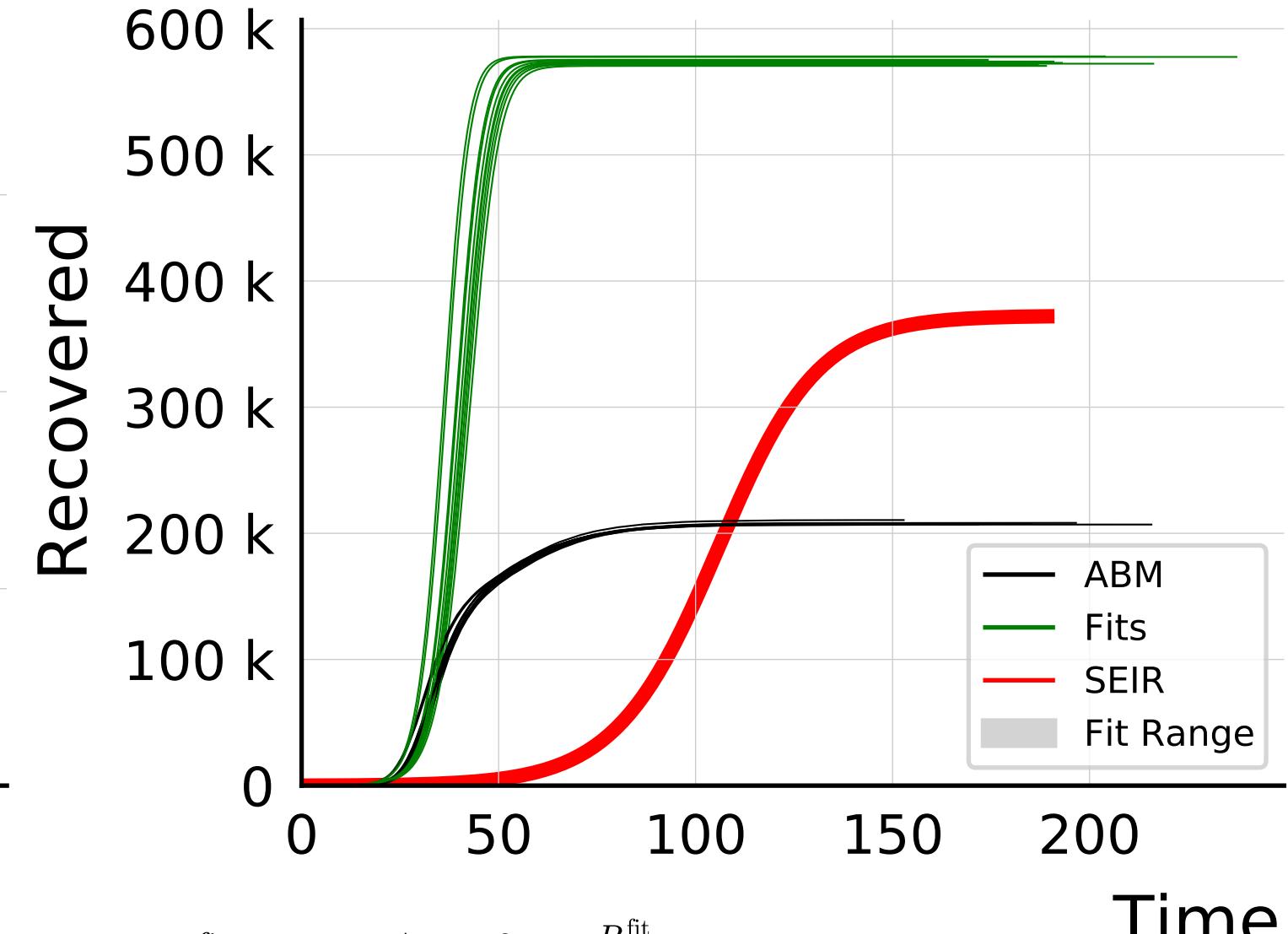


$$R_{\infty}^{\text{fit}} = 576_{-1.4}^{+2} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.679 \pm 0.0025$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.02$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

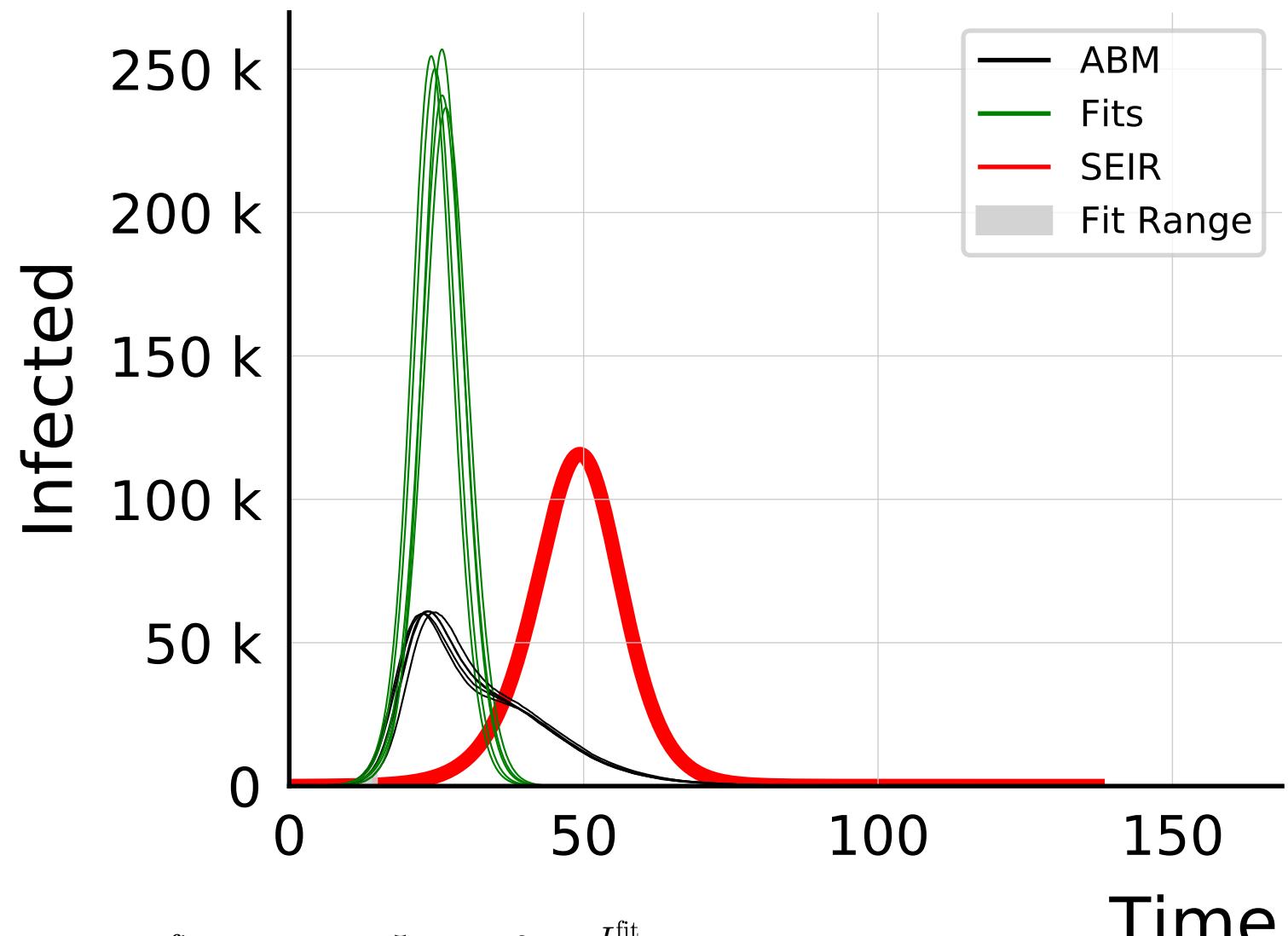


$$I_{\max}^{\text{fit}} = 16.0_{-0.7}^{+2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.12 \pm 0.089$$

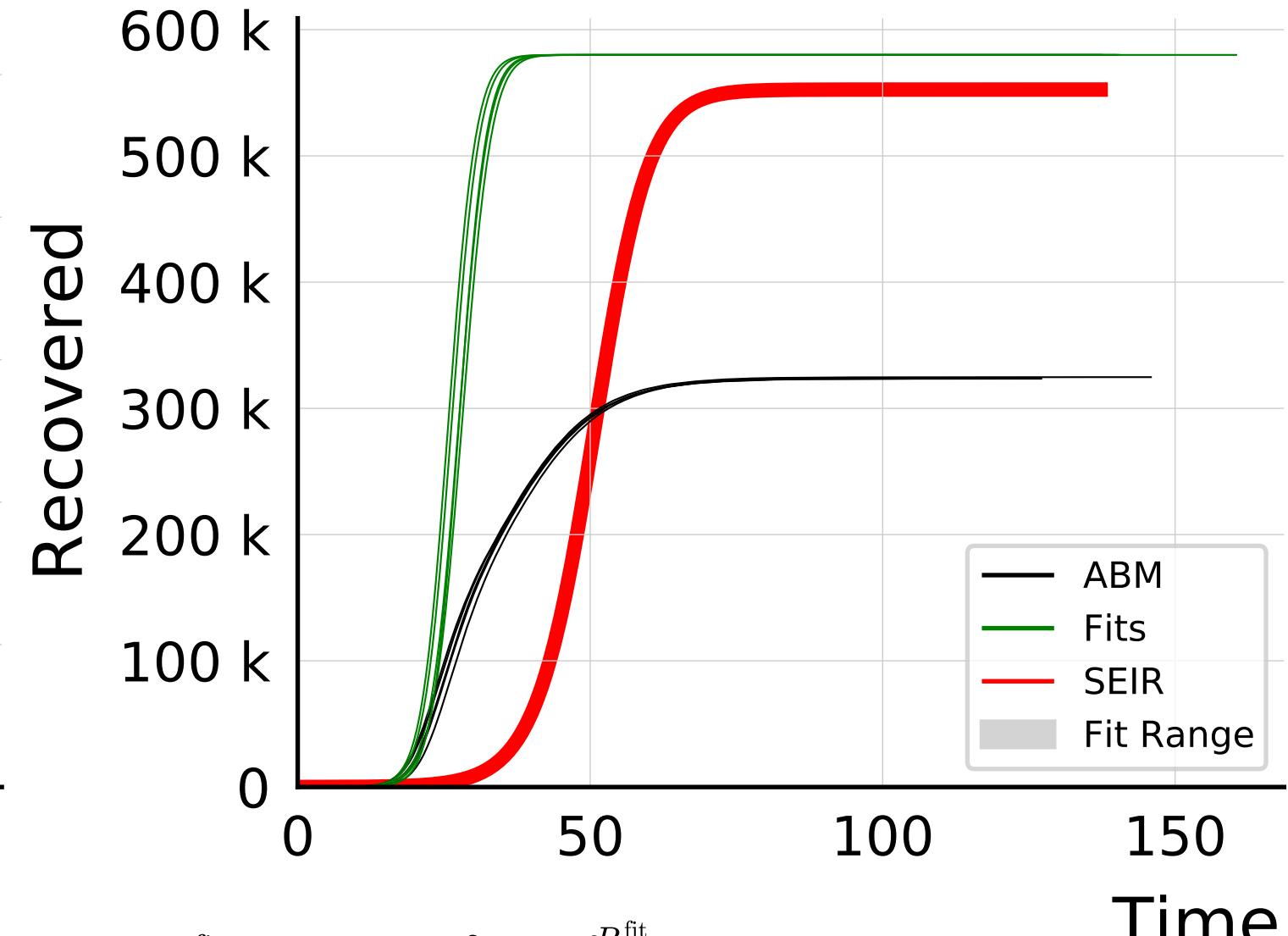


$$R_{\infty}^{\text{fit}} = 574_{-2}^{+4} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.761 \pm 0.0050$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #5

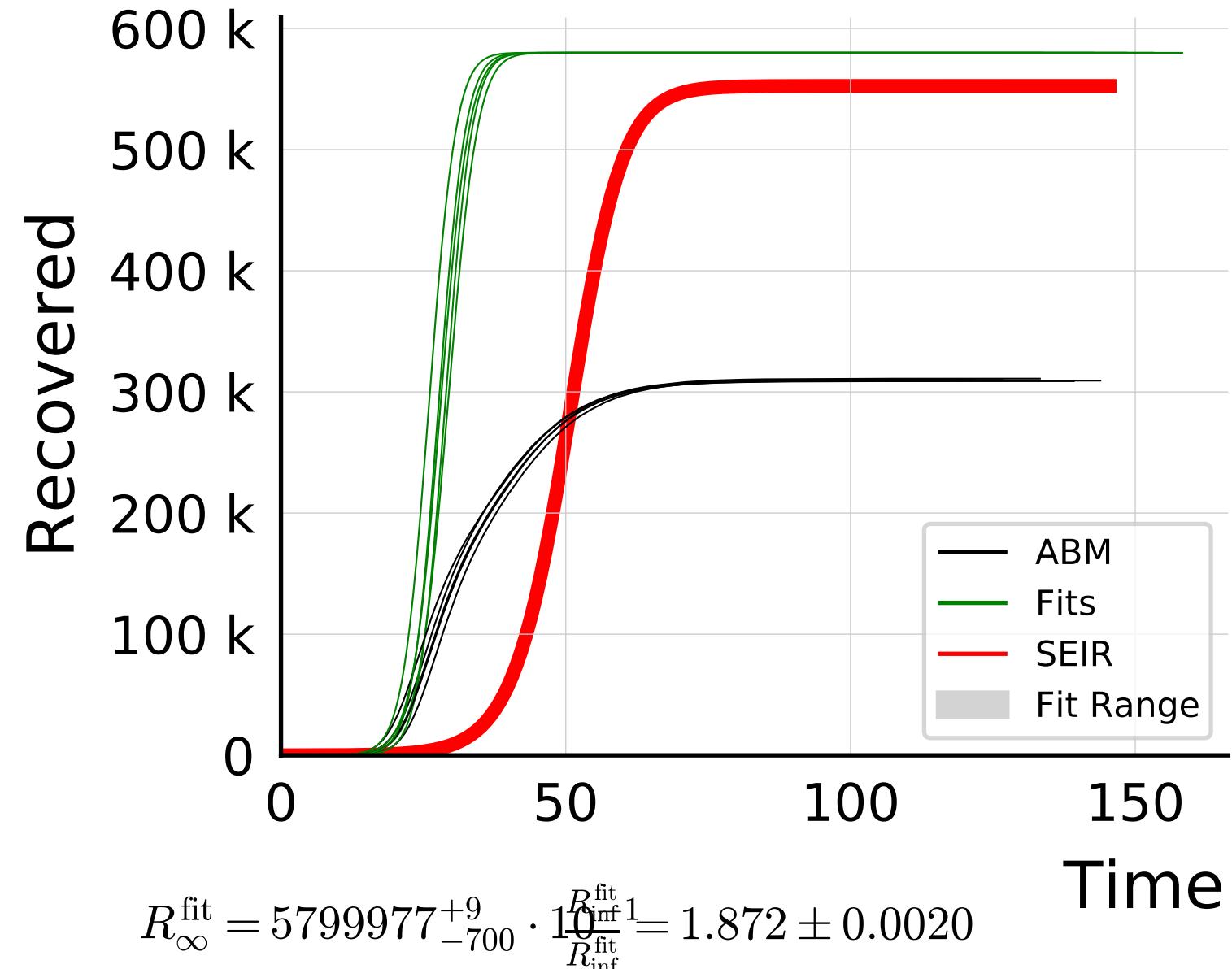
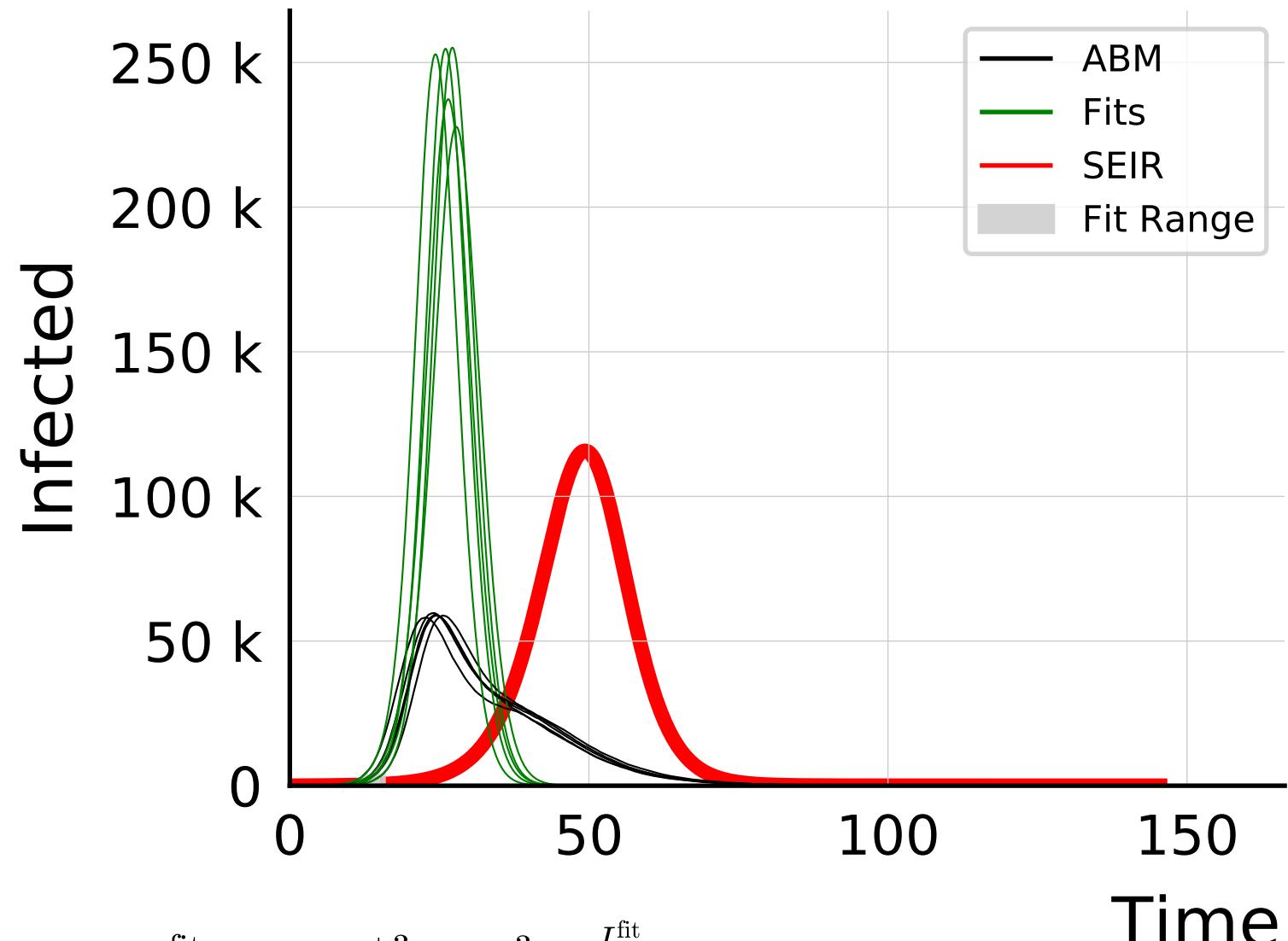


$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 4.09 \pm 0.066$$

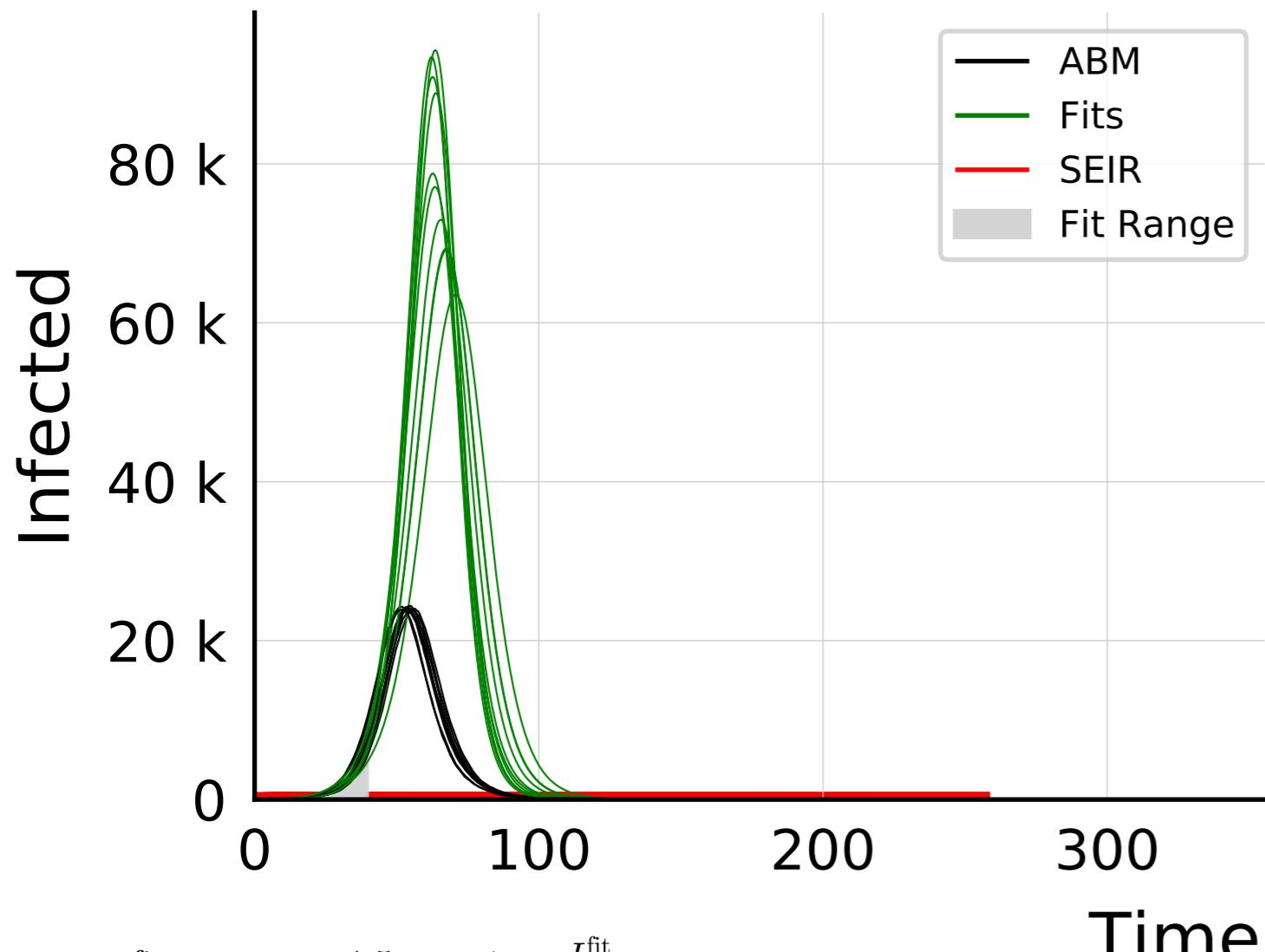


$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.79 \pm 0.0011$$

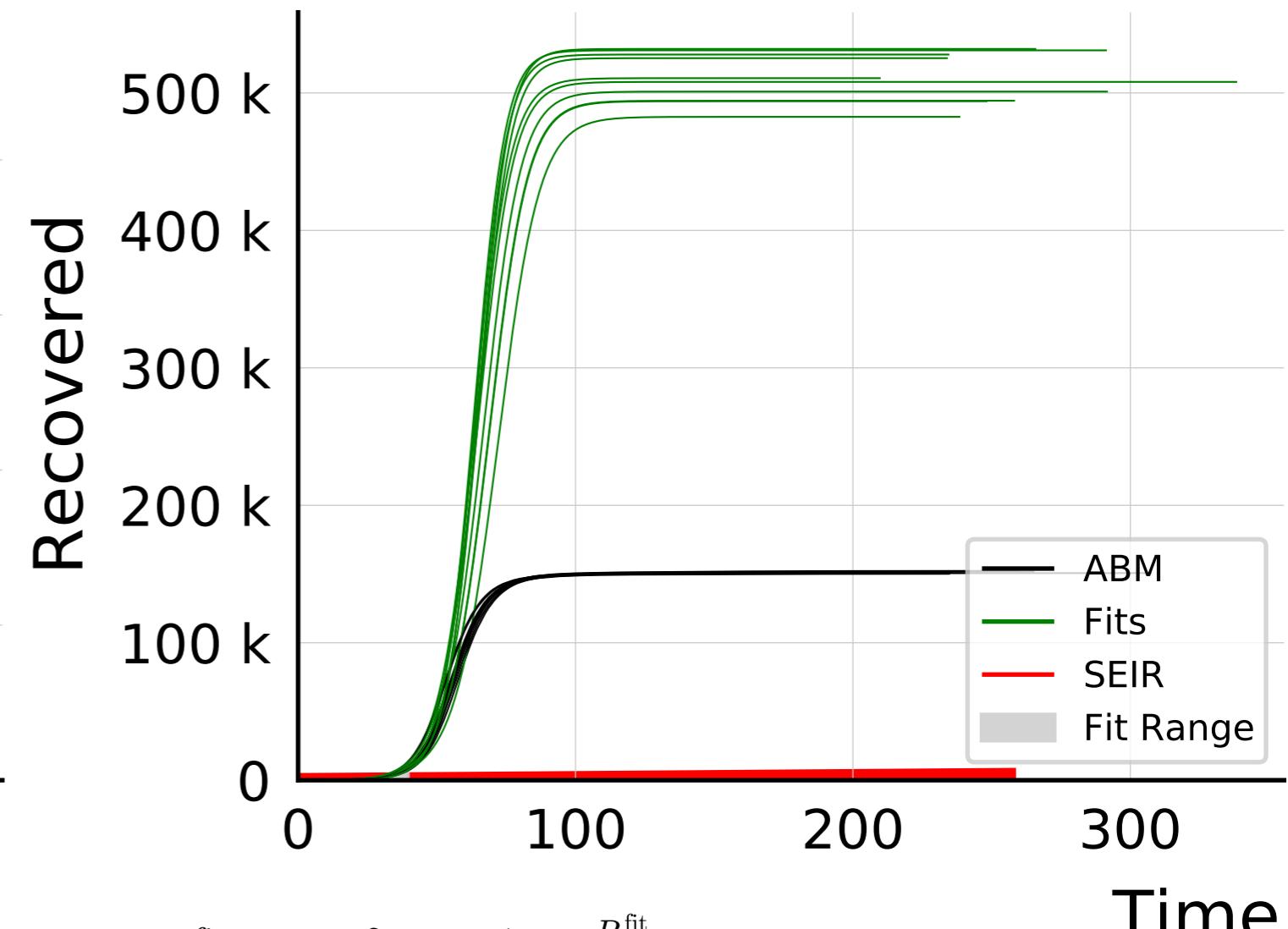
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #5



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 25.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

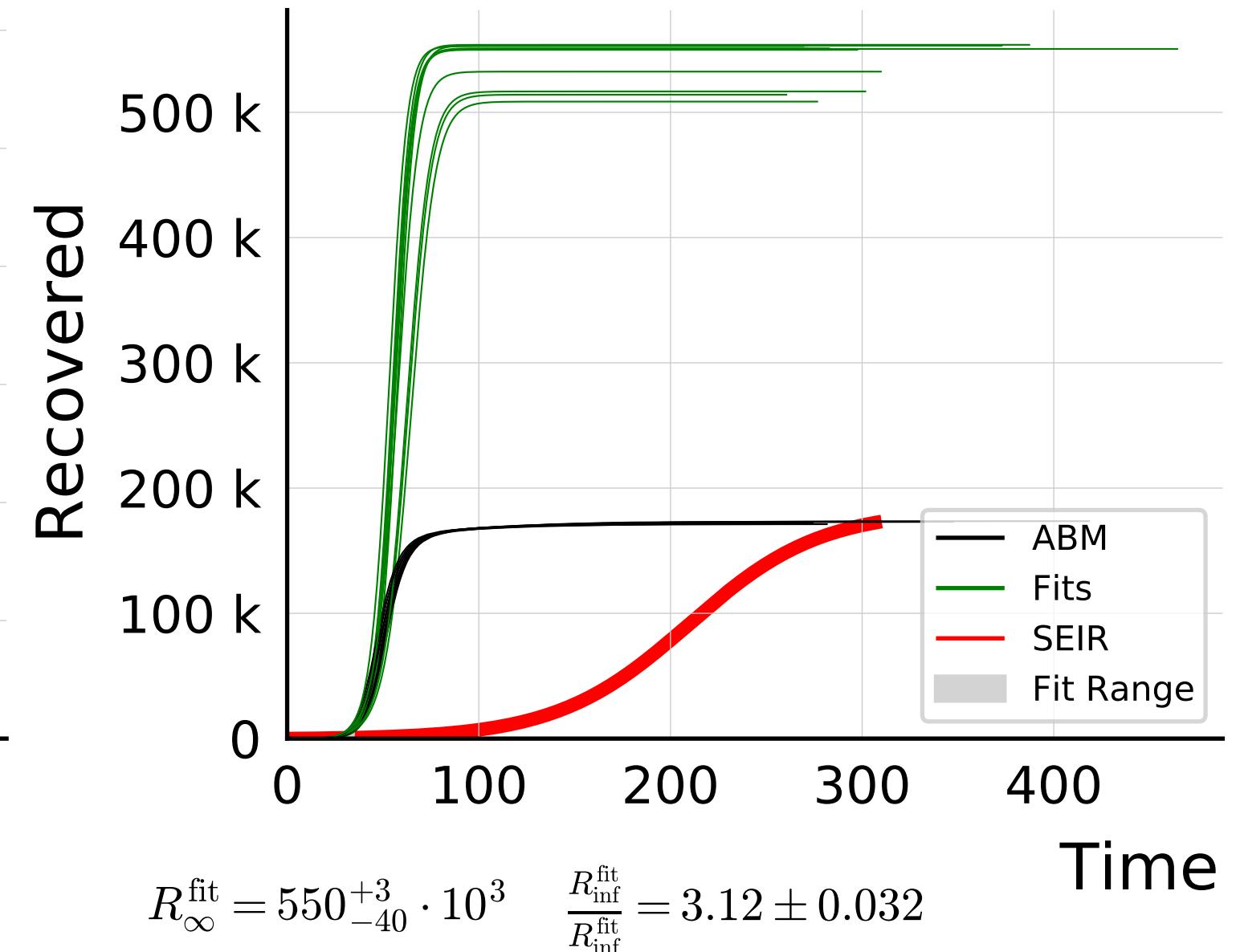
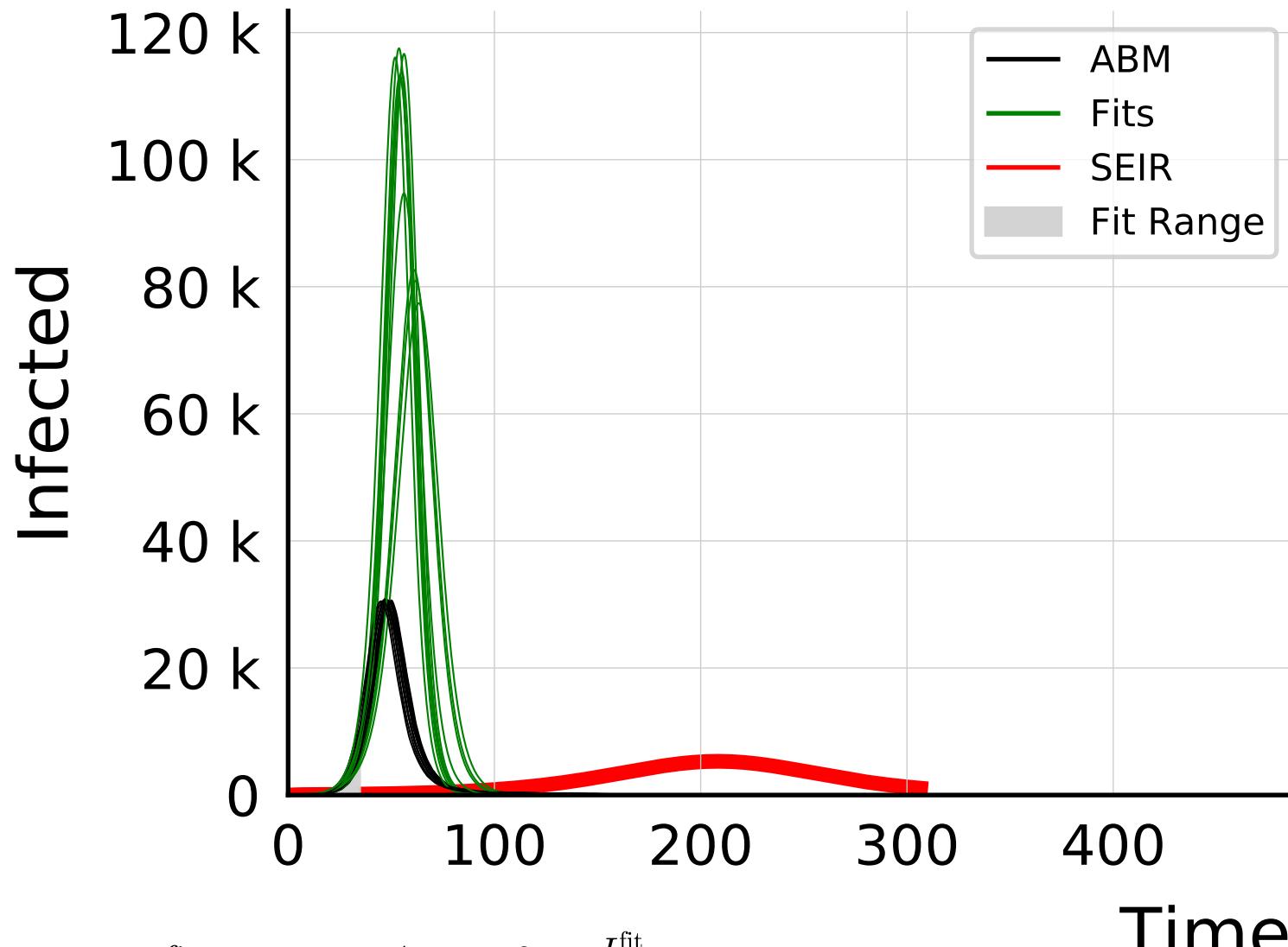


$$I_{\max}^{\text{fit}} = 7.8_{-0.9}^{+1.5} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.14$$

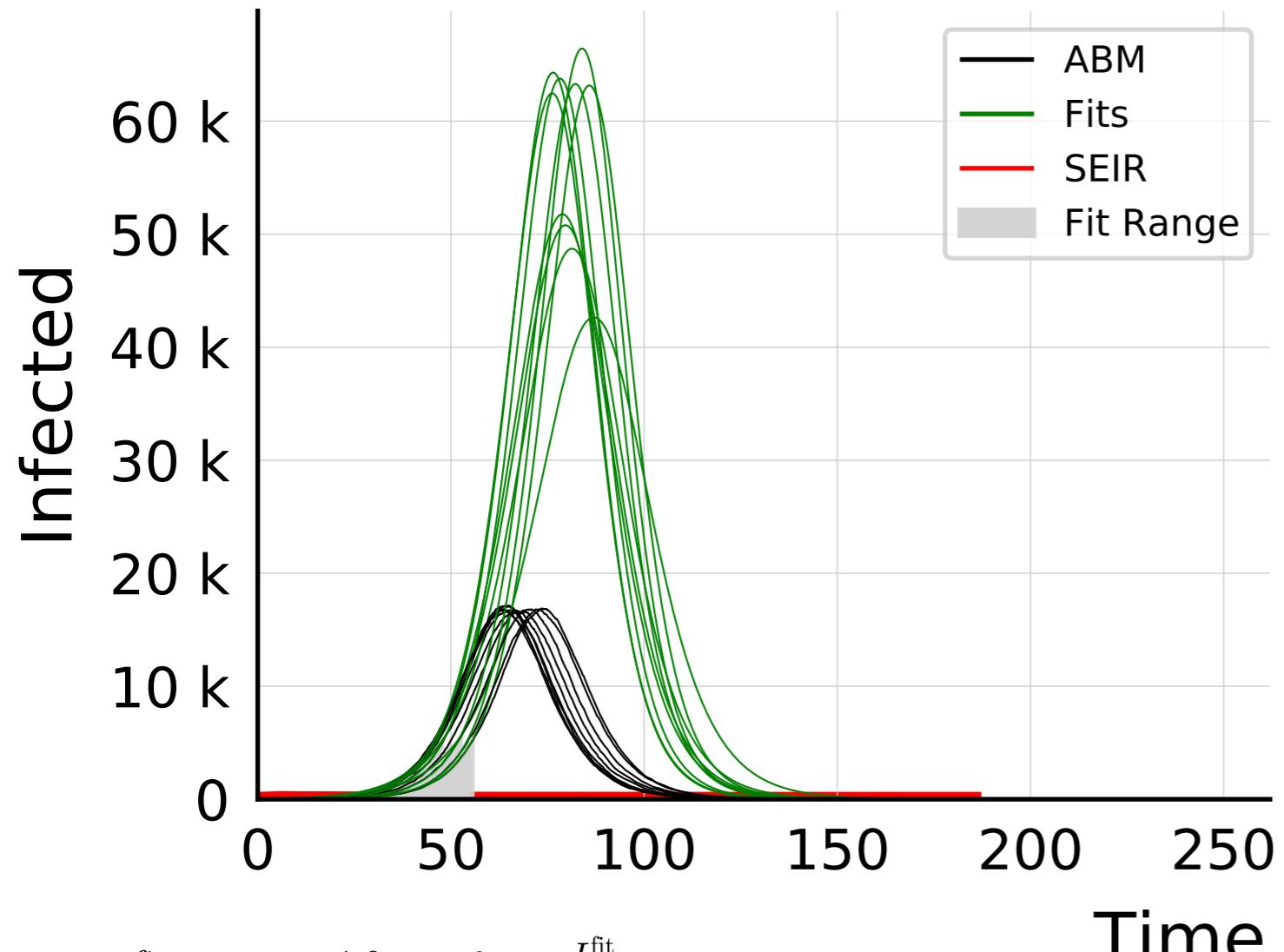


$$R_{\infty}^{\text{fit}} = 51_{-1.5}^{+2} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.38 \pm 0.033$$

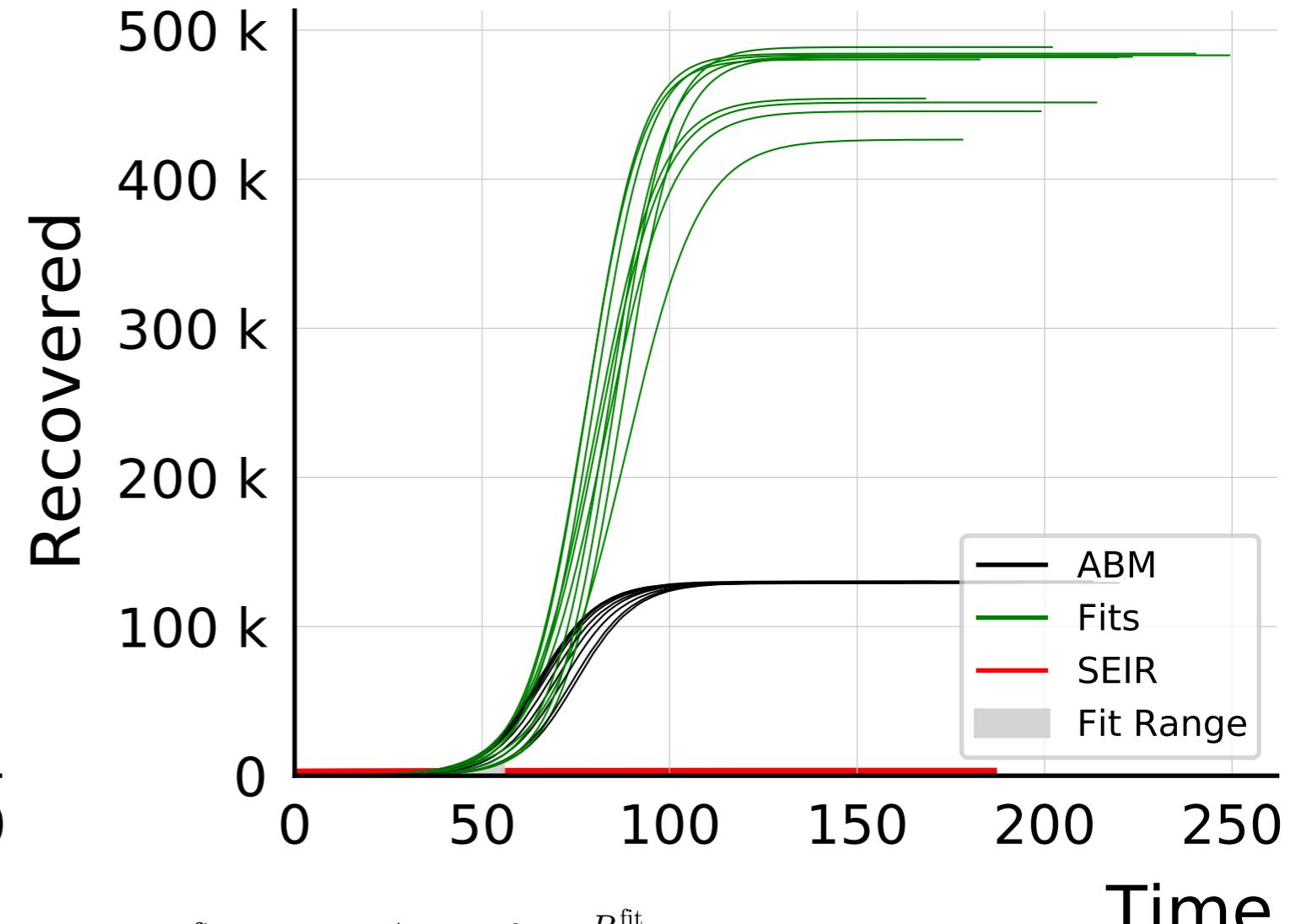
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 30.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

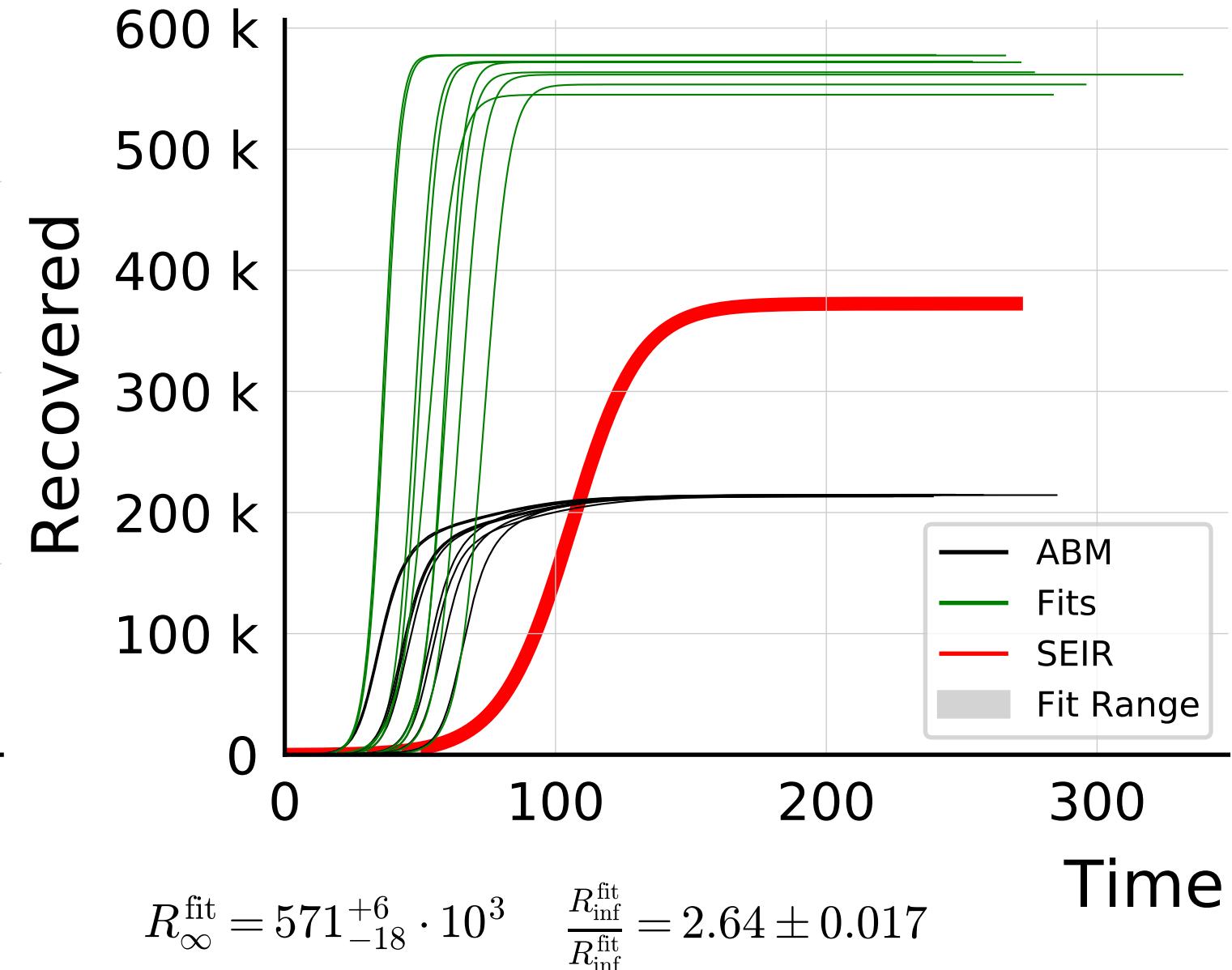
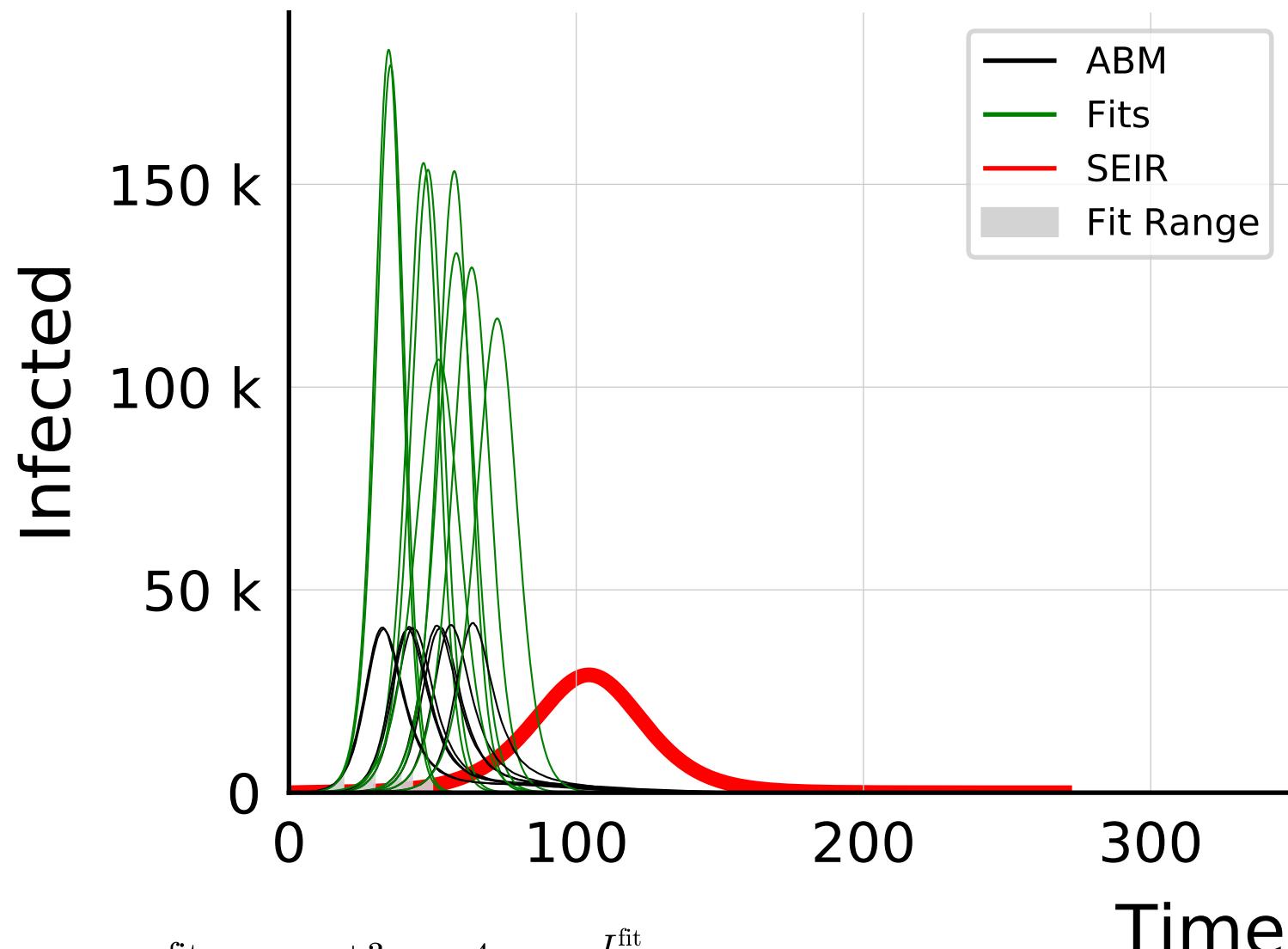


$$I_{\max}^{\text{fit}} = 63^{+1.9}_{-14} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.4 \pm 0.15$$

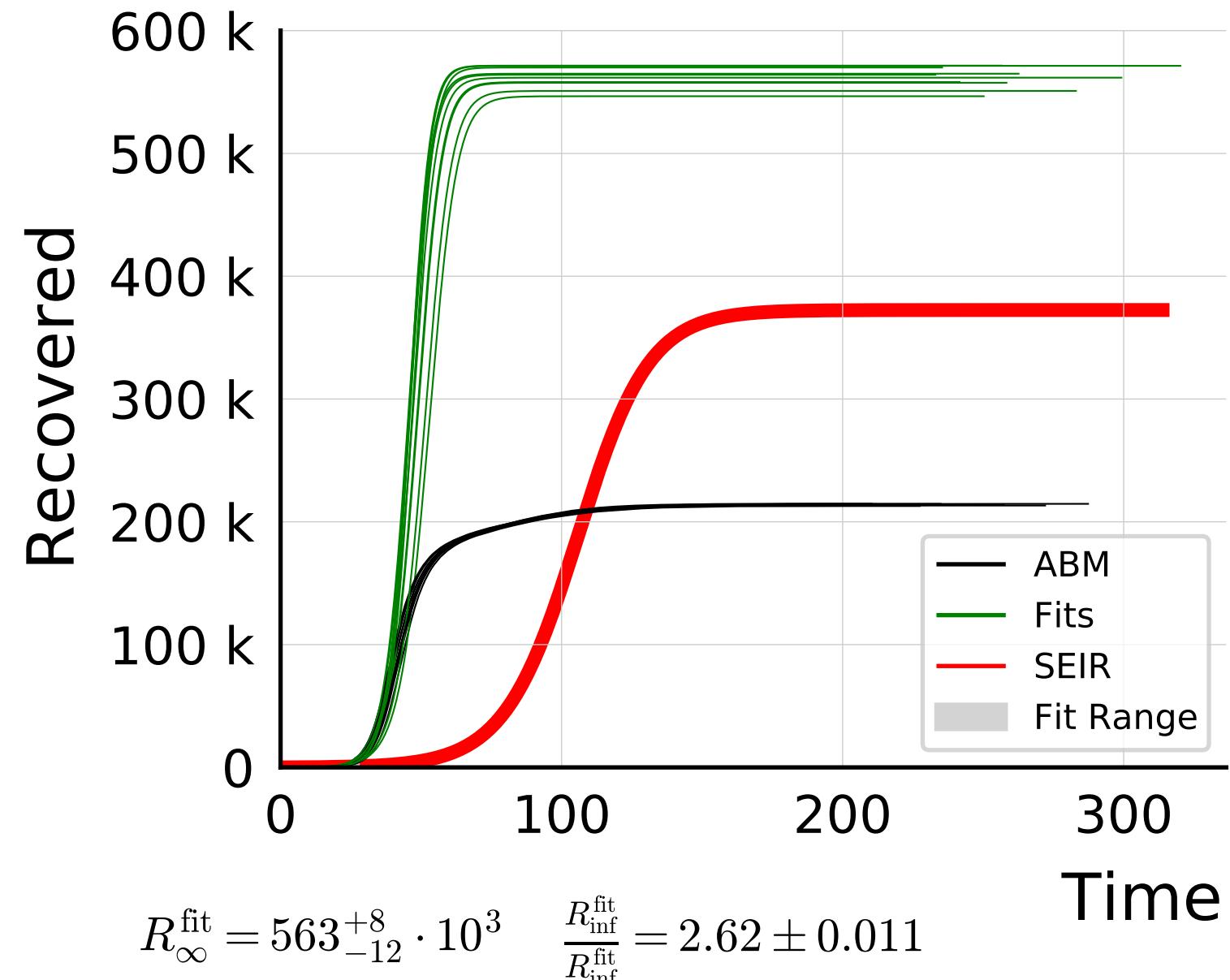
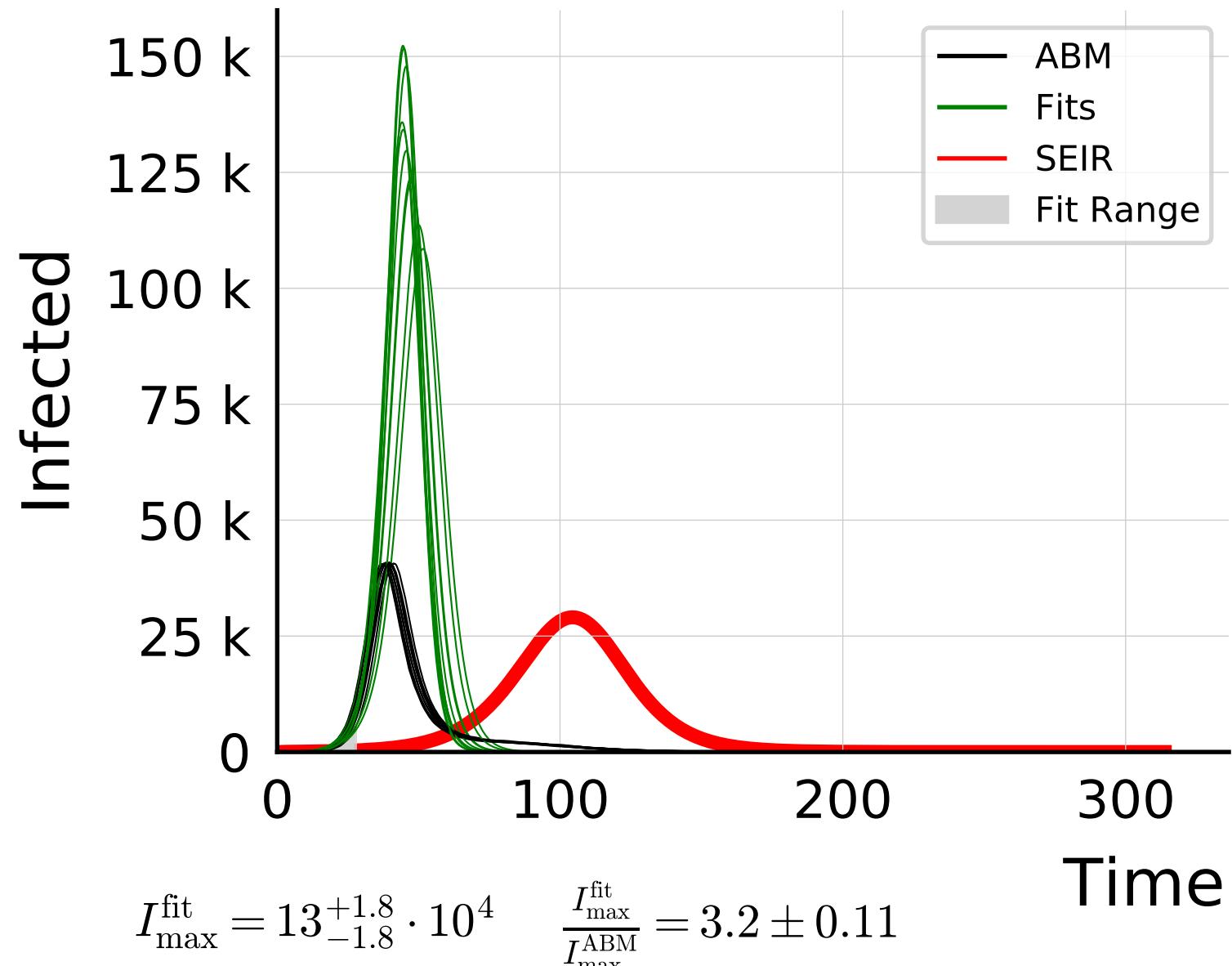


$$R_{\infty}^{\text{fit}} = 481^{+4}_{-30} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.61 \pm 0.050$$

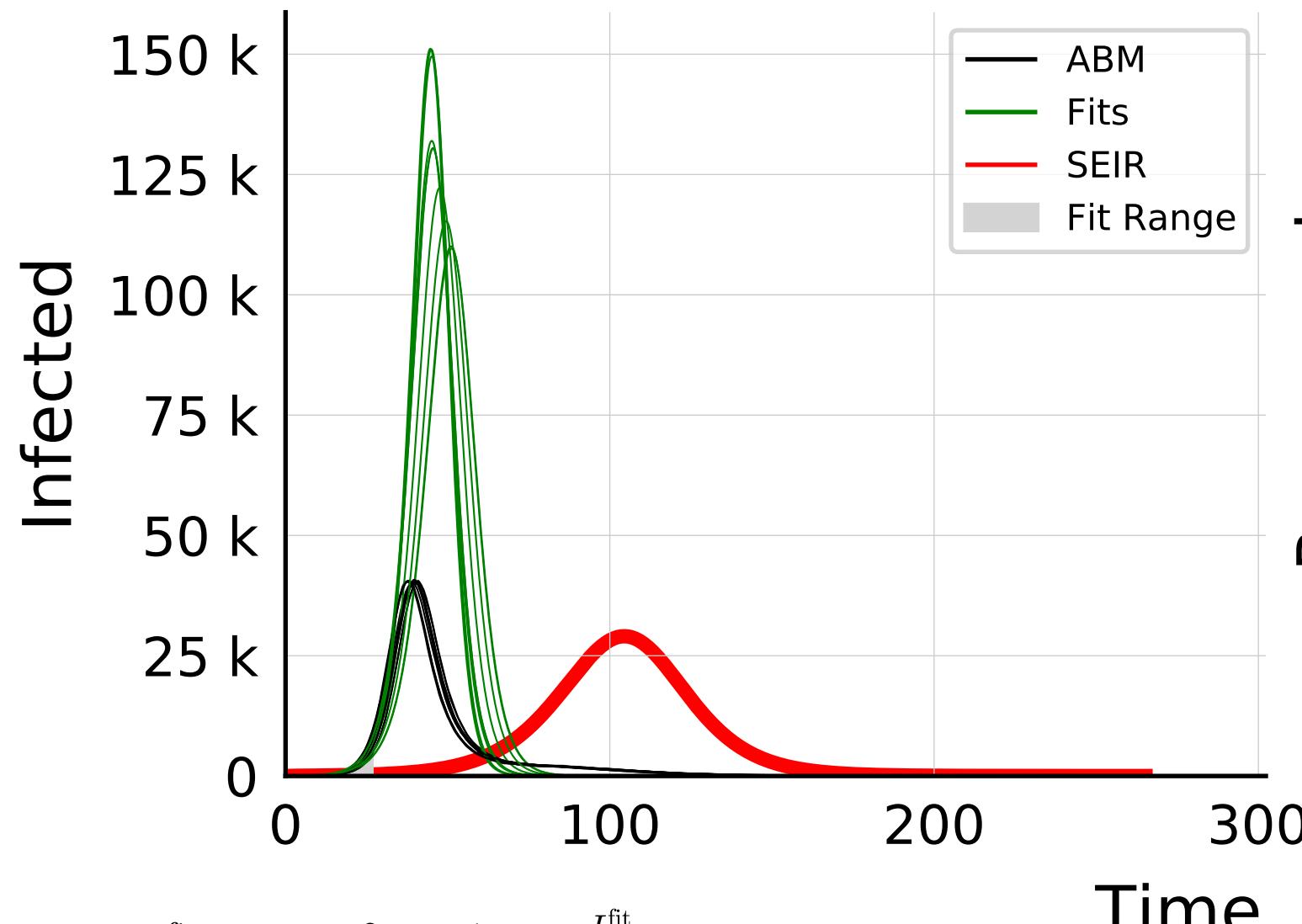
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = False, v. = 1.0, #9



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

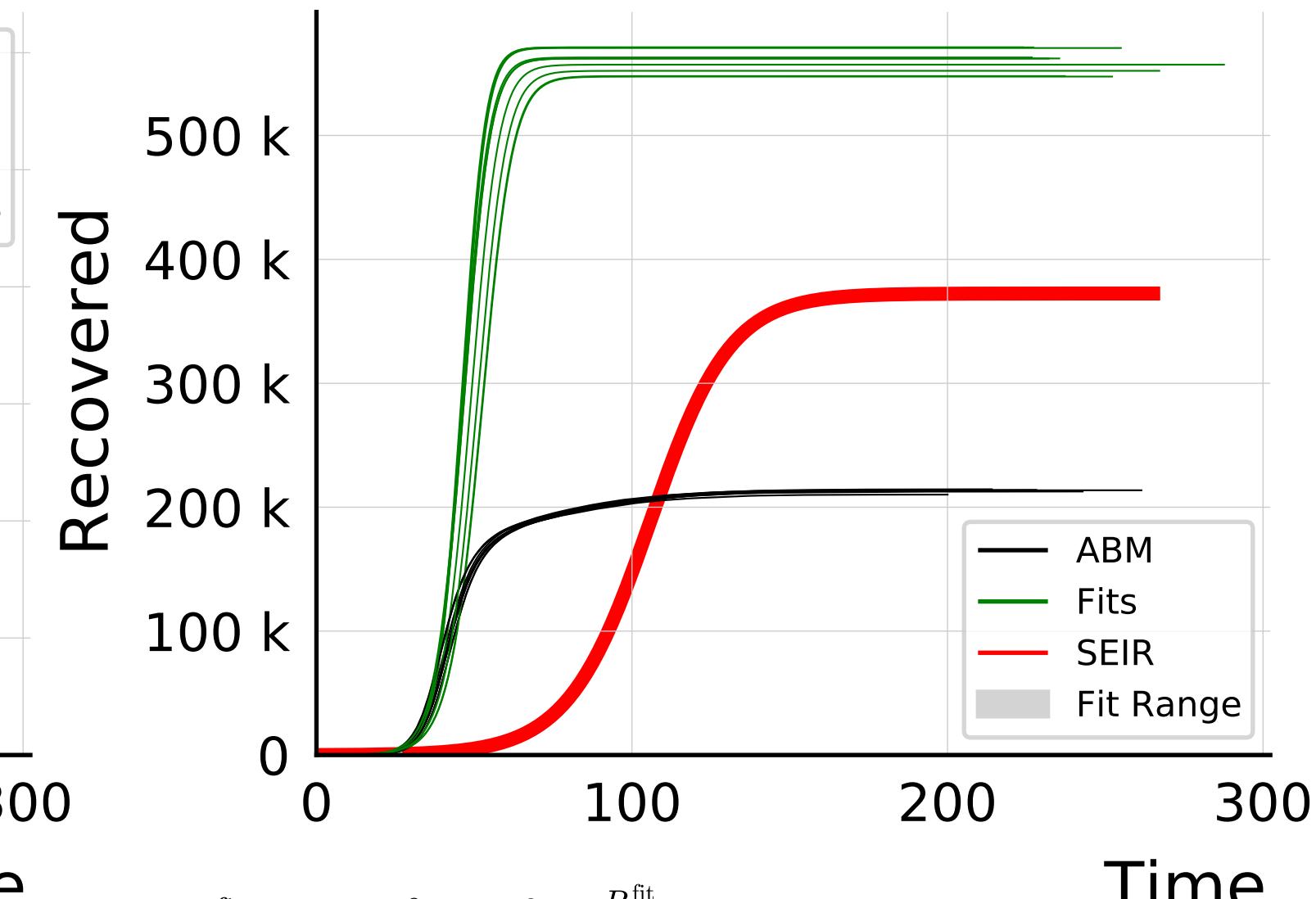


$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.25$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 13_{-2}^{+2} \cdot 10^4$$

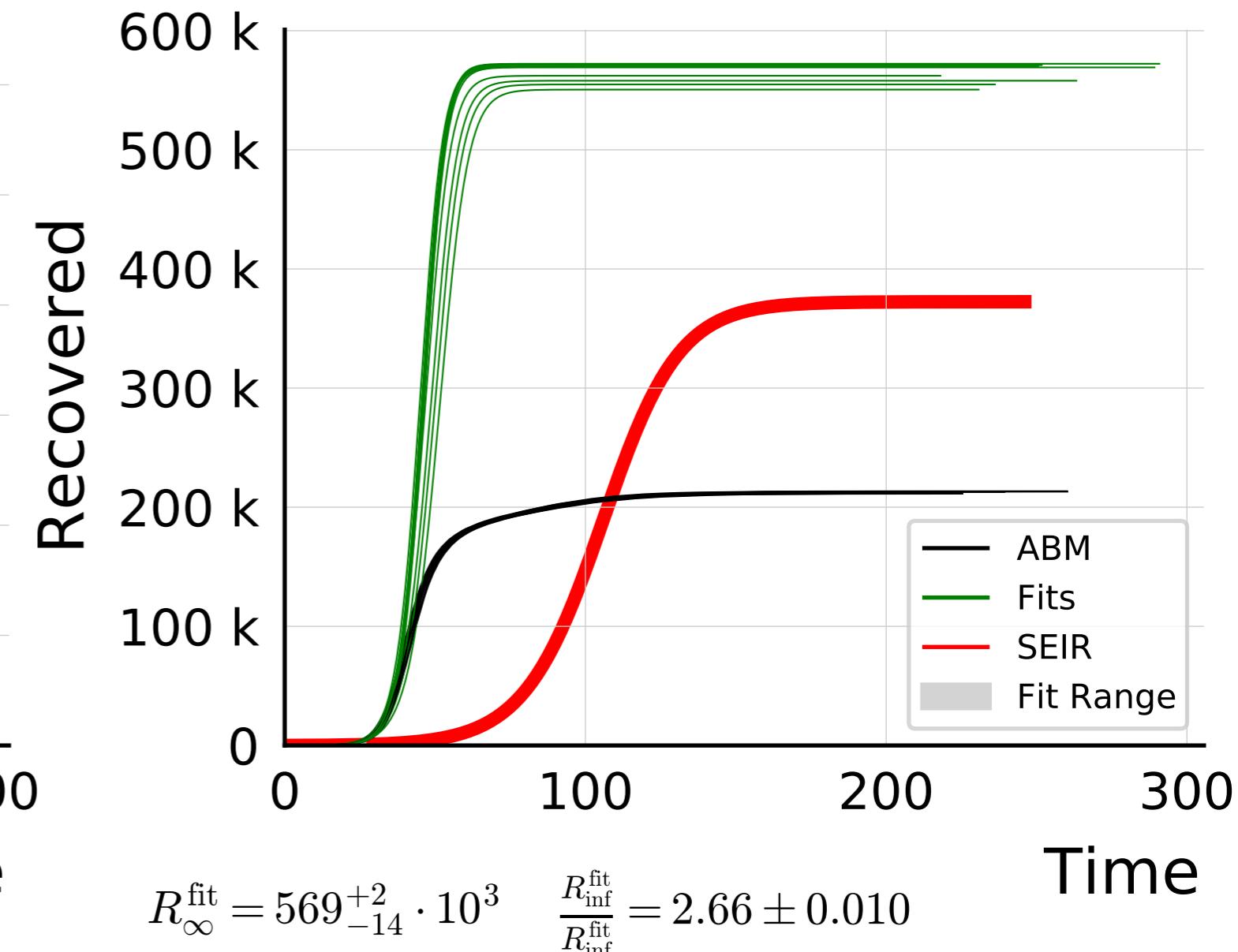
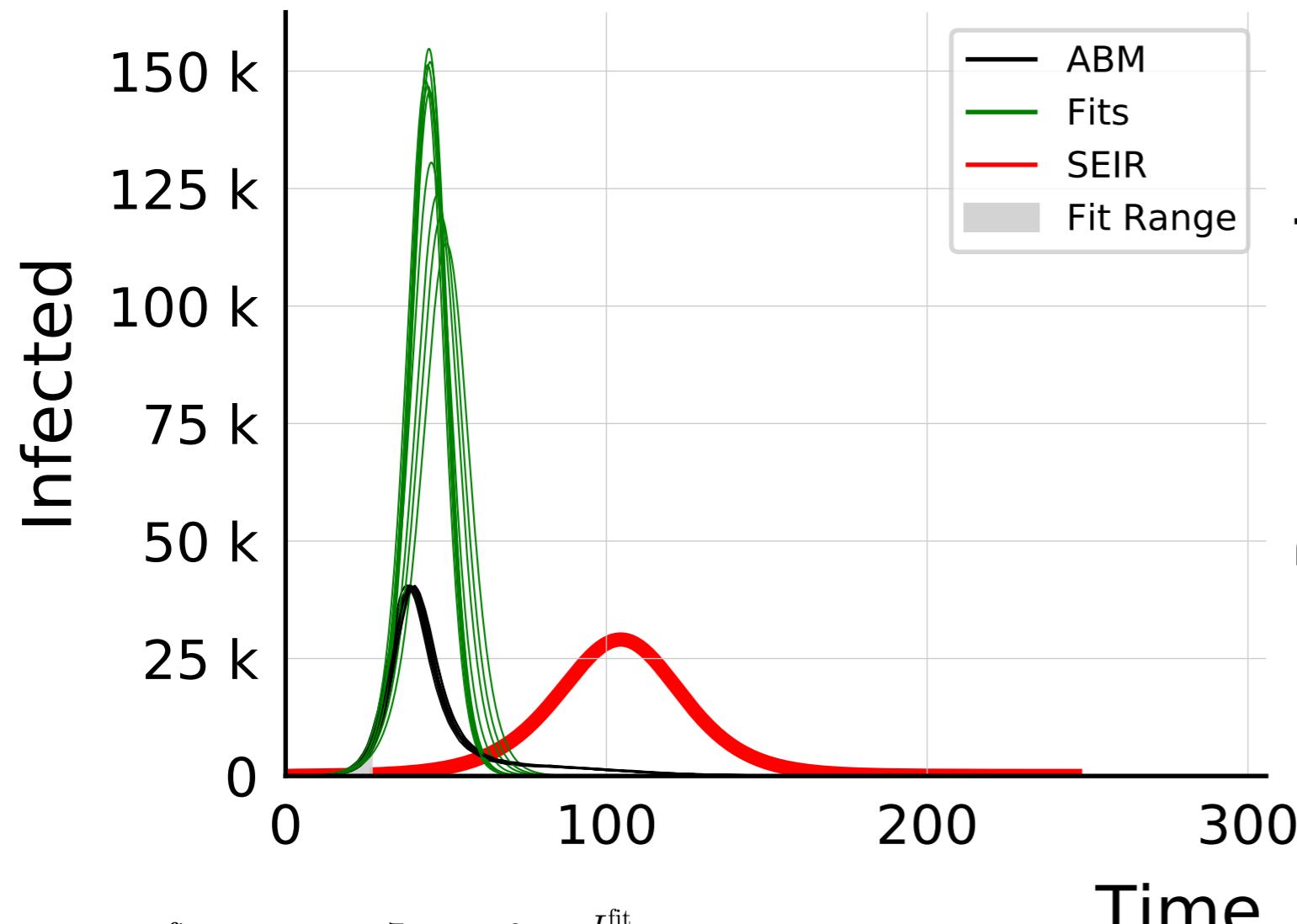
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.2 \pm 0.12$$



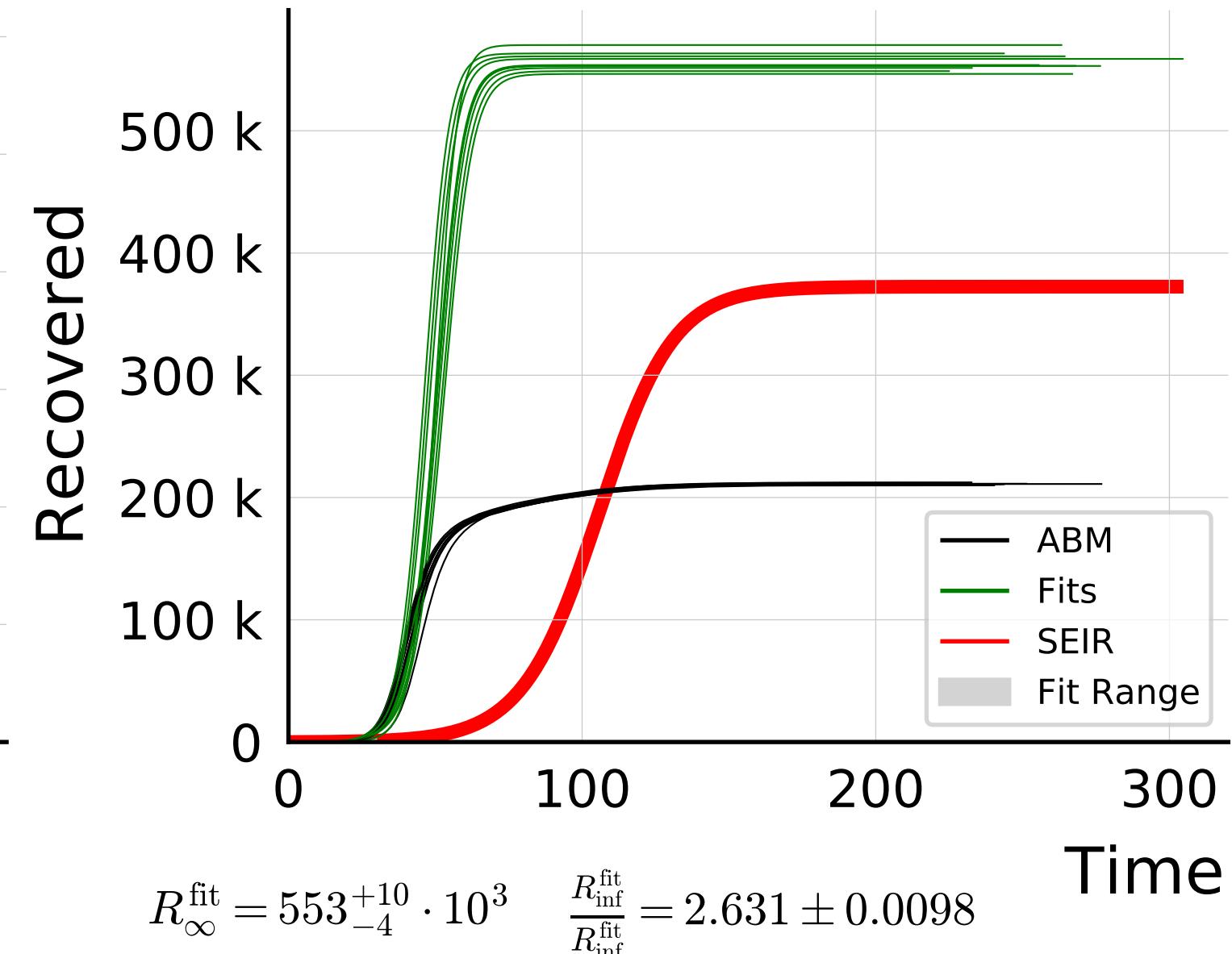
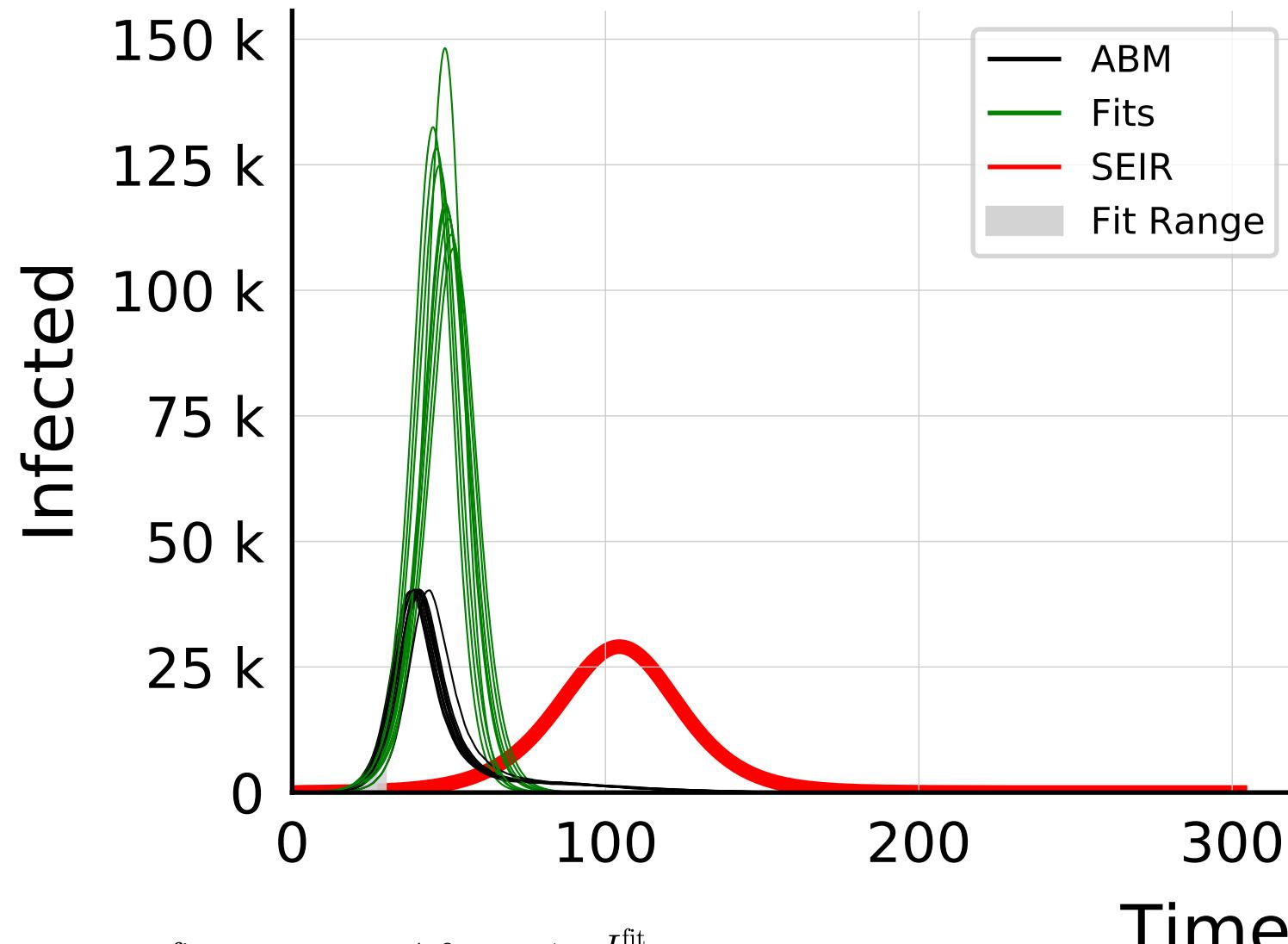
$$R_{\infty}^{\text{fit}} = 562_{-14}^{+9} \cdot 10^3$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 2.63 \pm 0.014$$

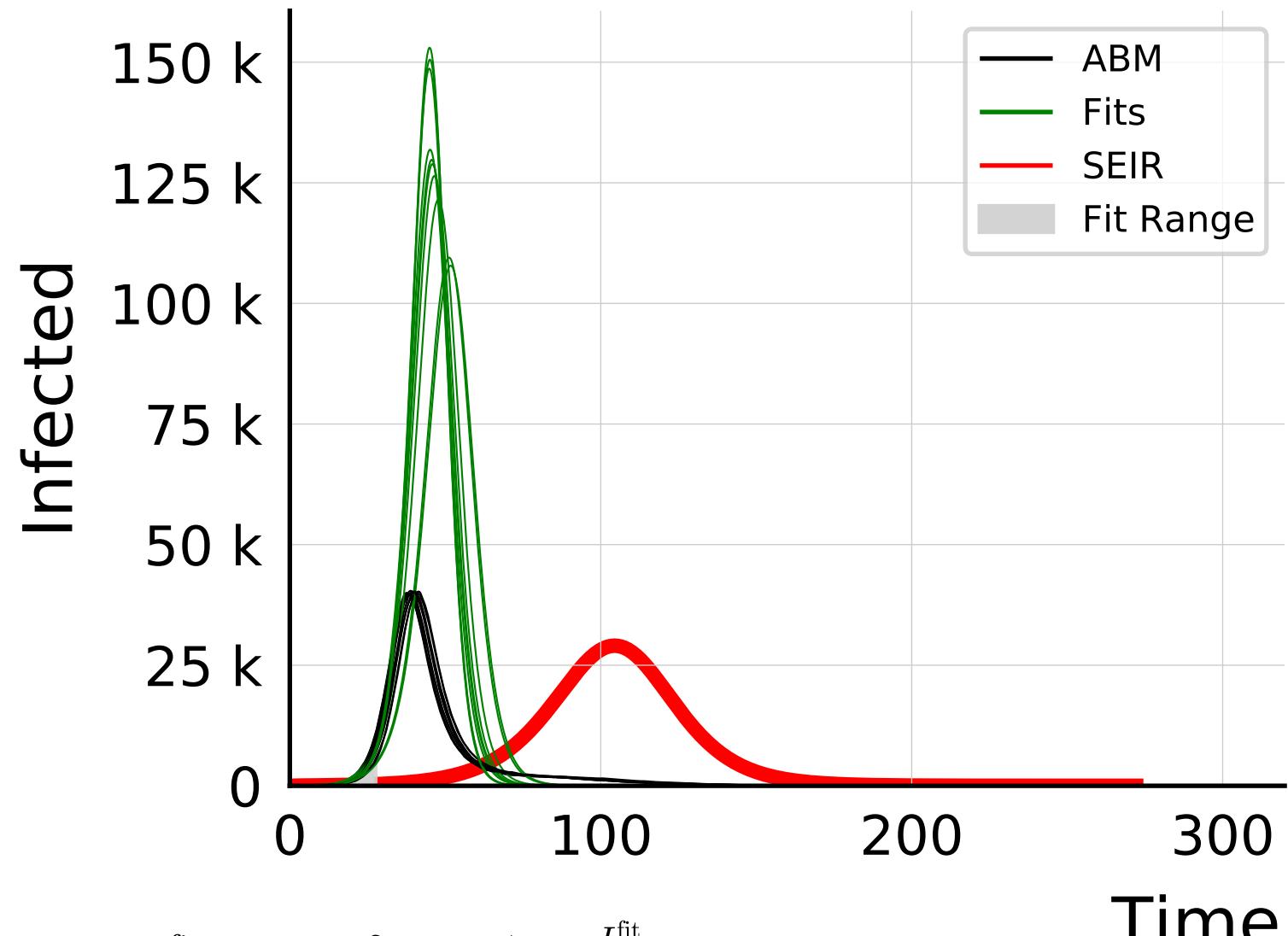
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.5$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



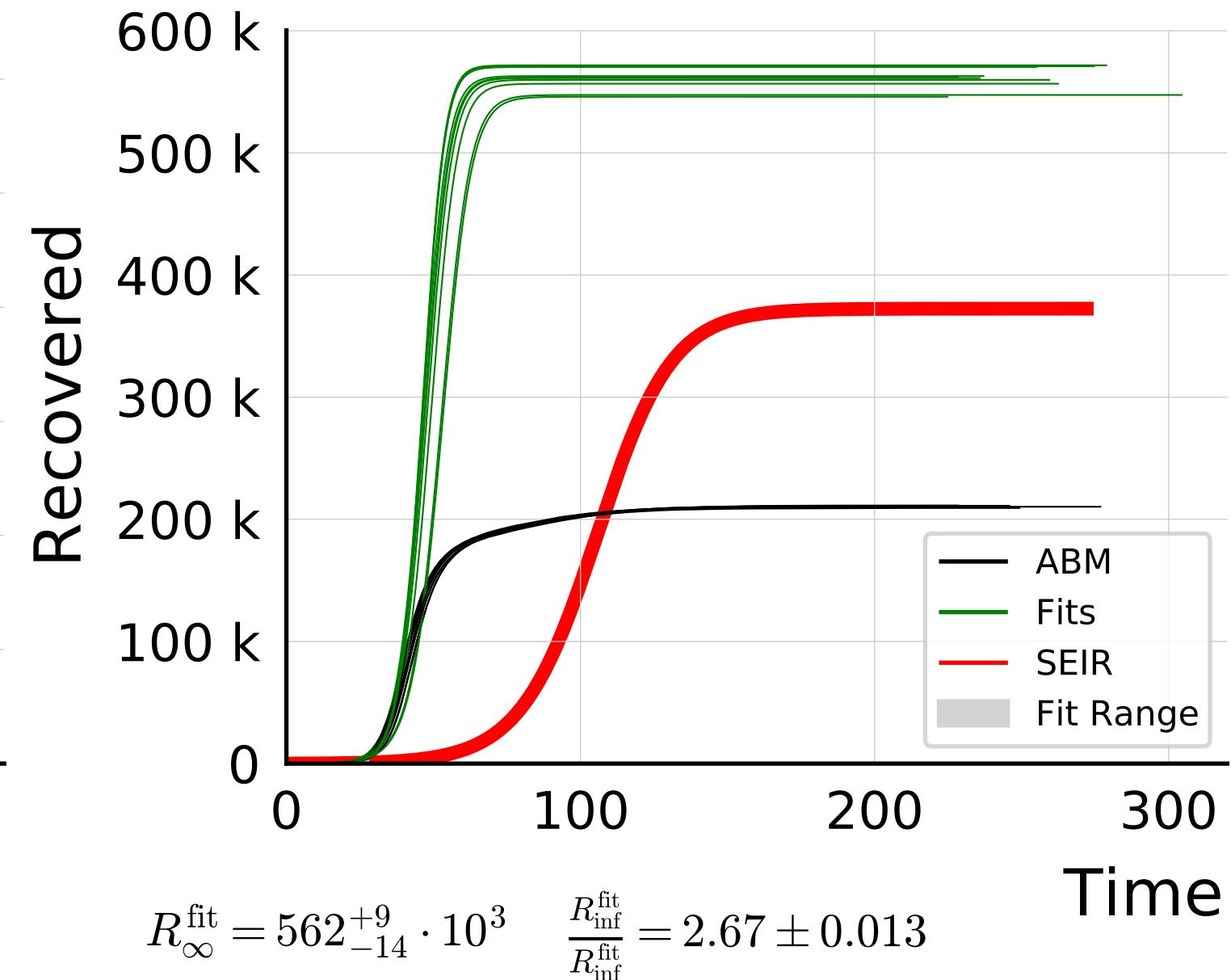
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.75$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

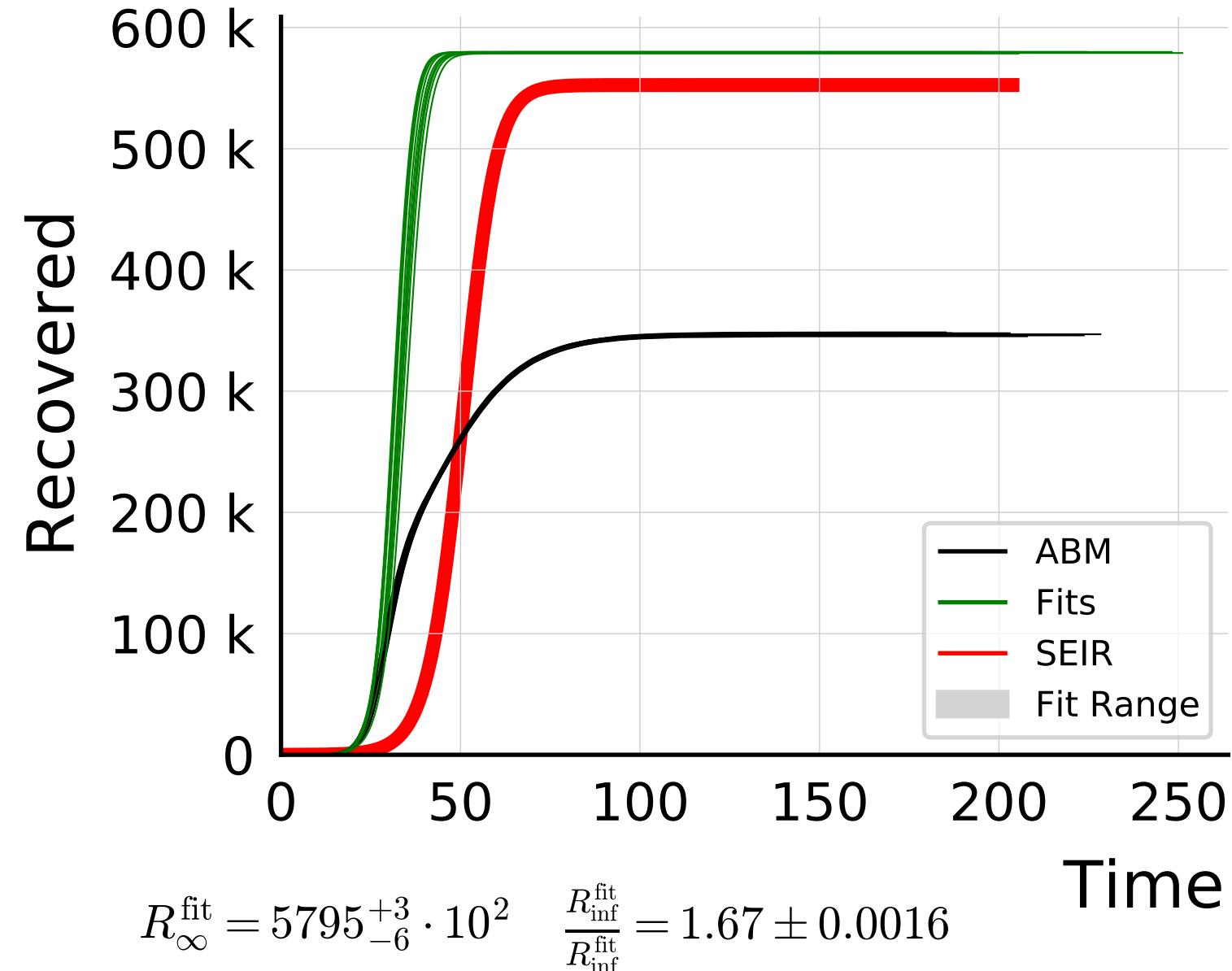
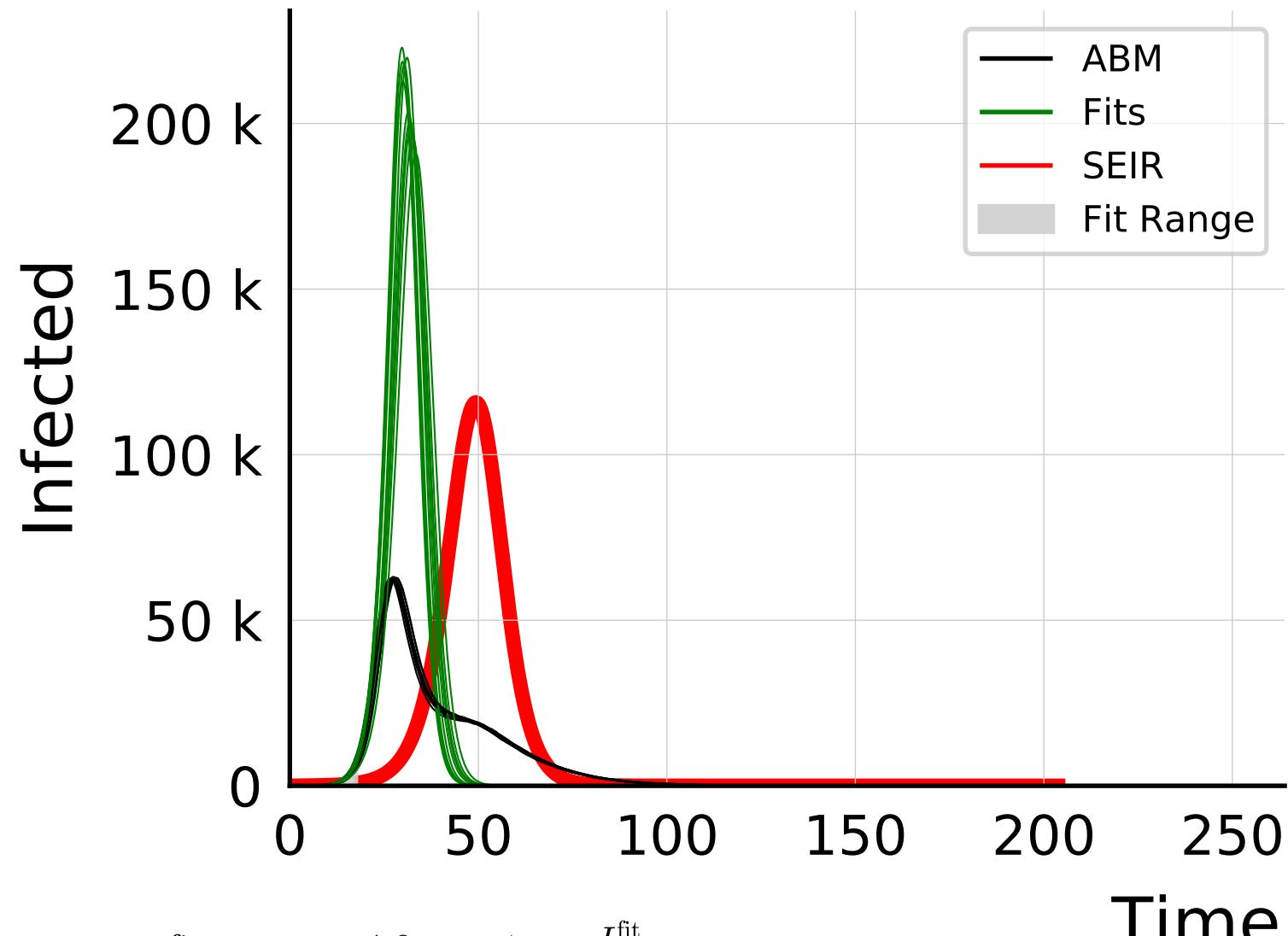


$$I_{\max}^{\text{fit}} = 13^{+2}_{-2.0} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.12$$

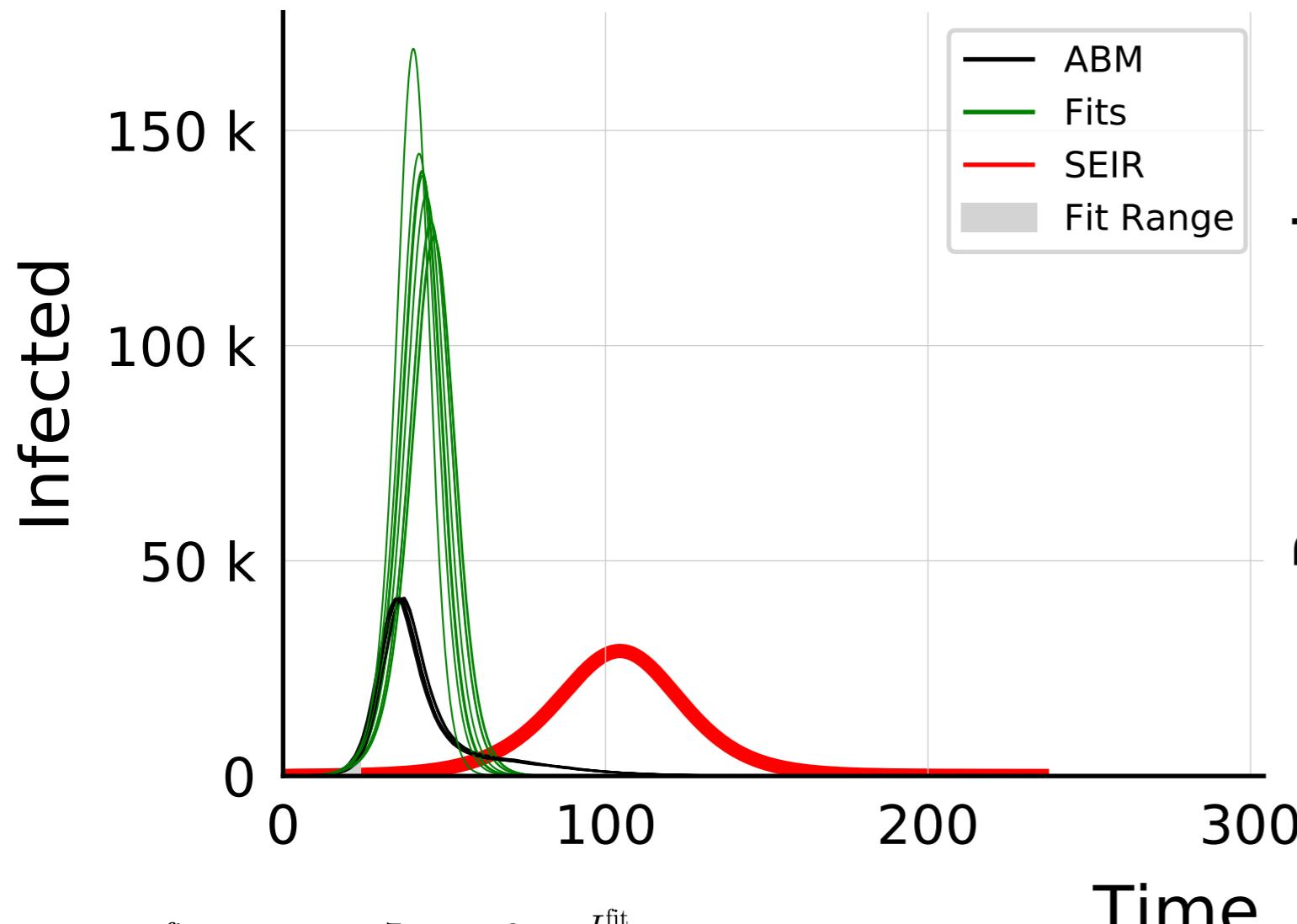


$$R_{\infty}^{\text{fit}} = 562^{+9}_{-14} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.67 \pm 0.013$$

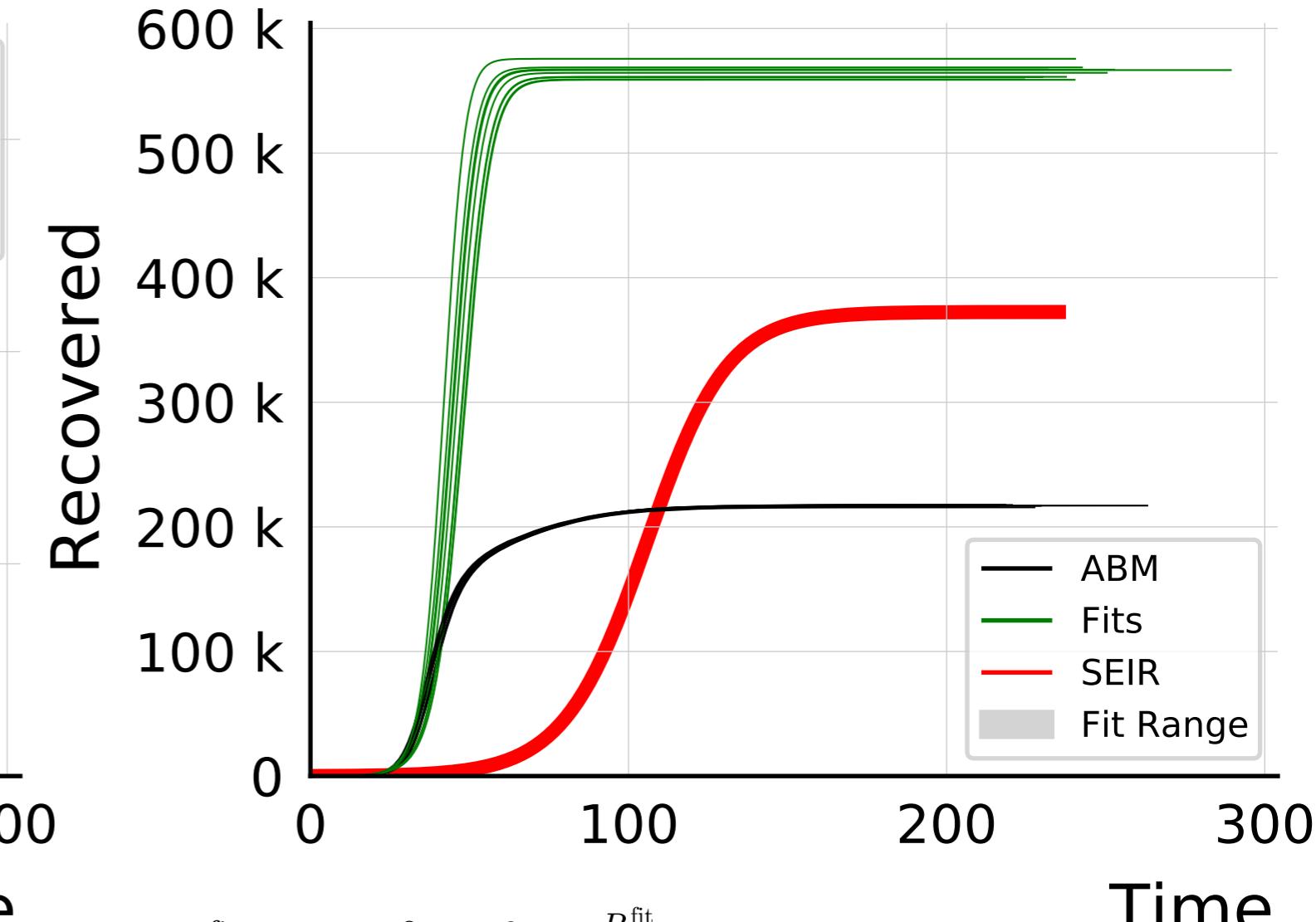
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

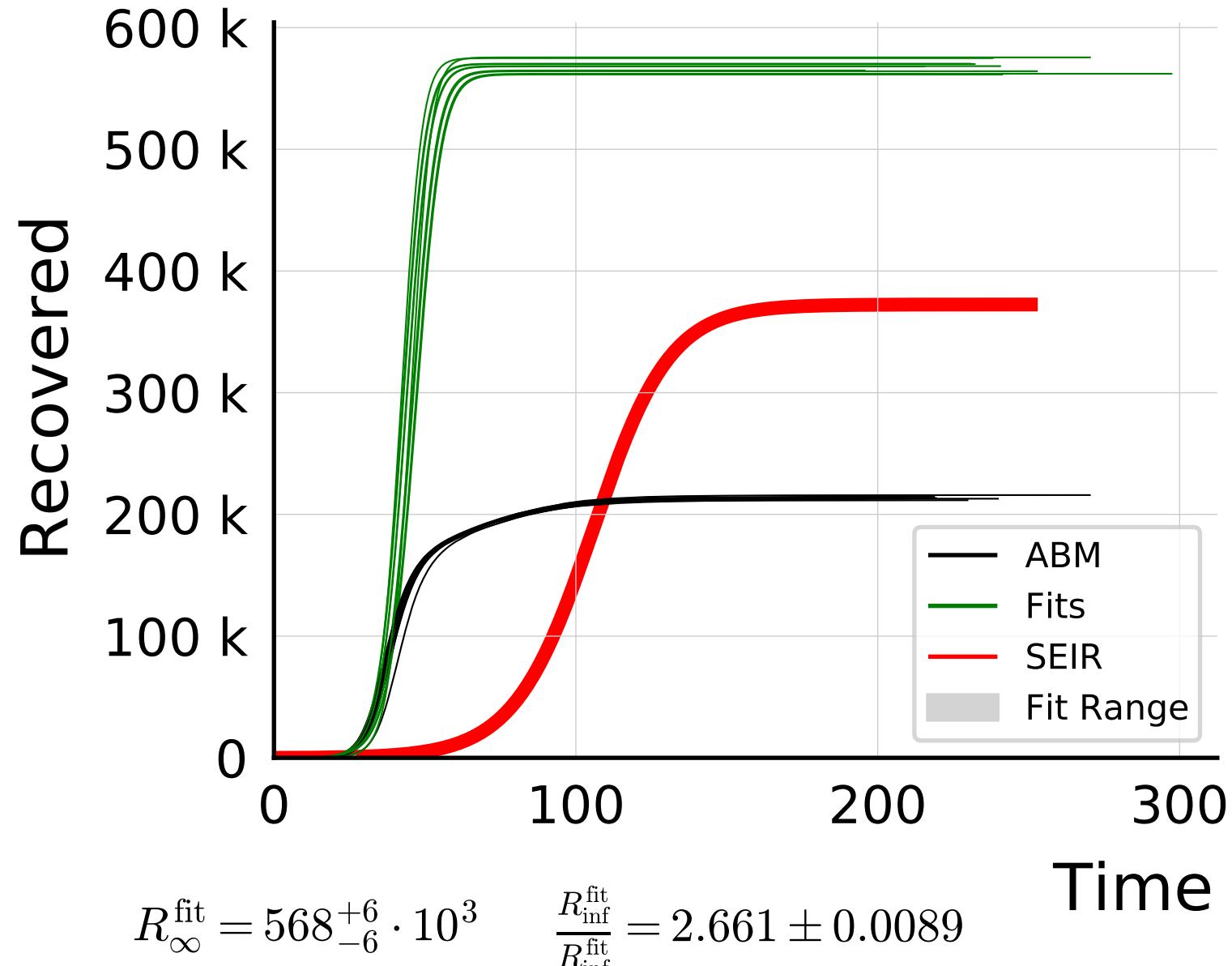
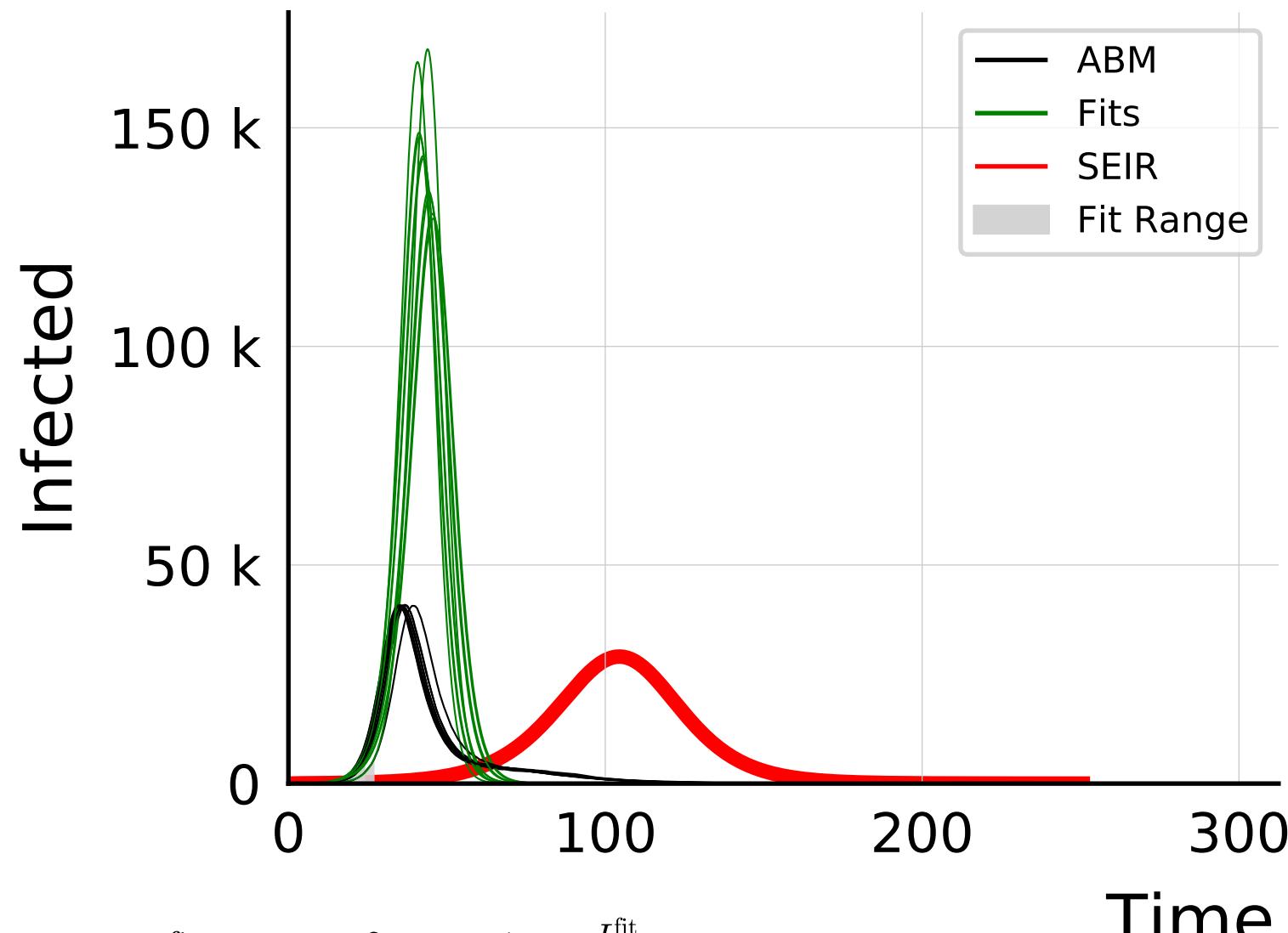


$$I_{\max}^{\text{fit}} = 137_{-12}^{+7} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.33 \pm 0.097$$

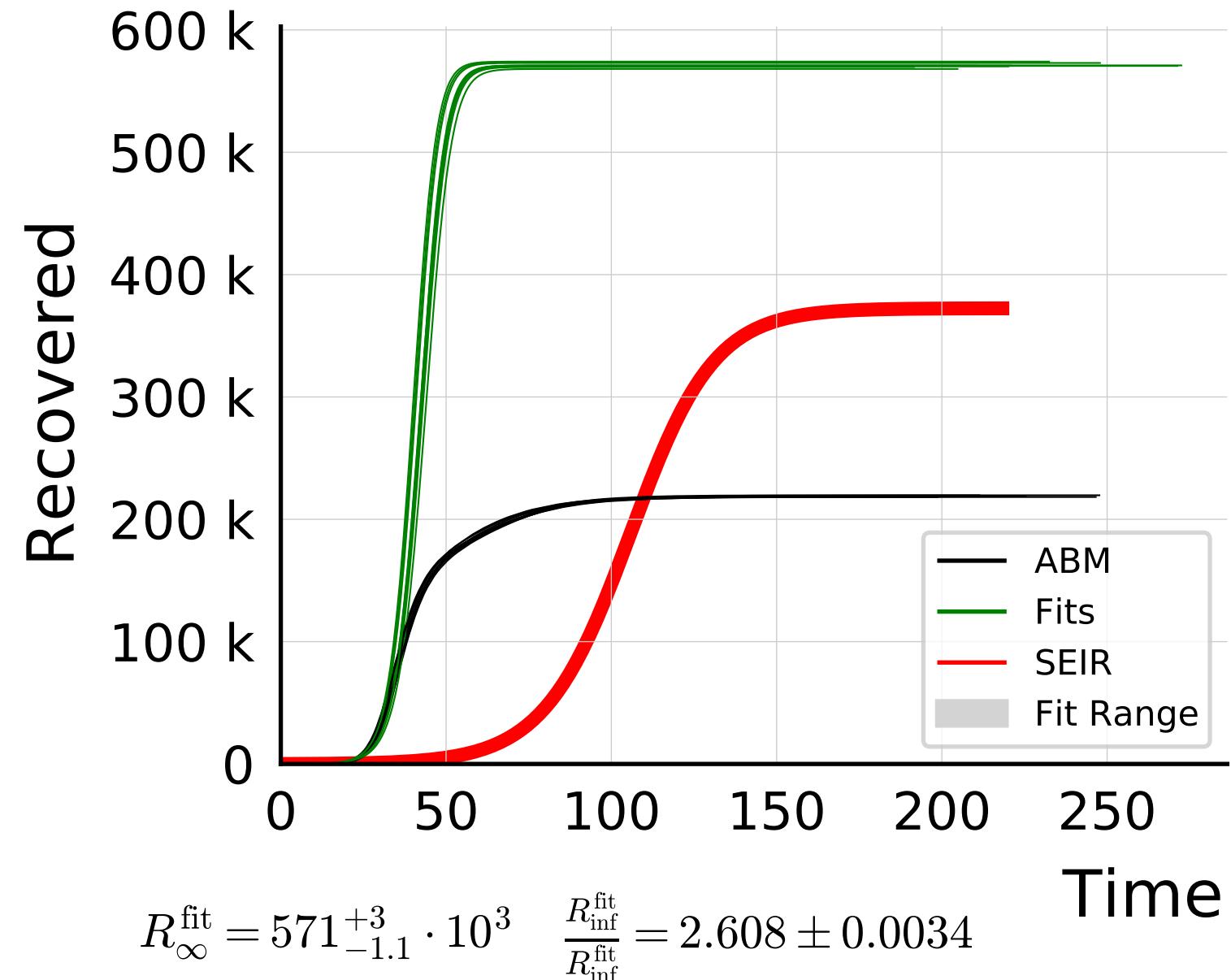
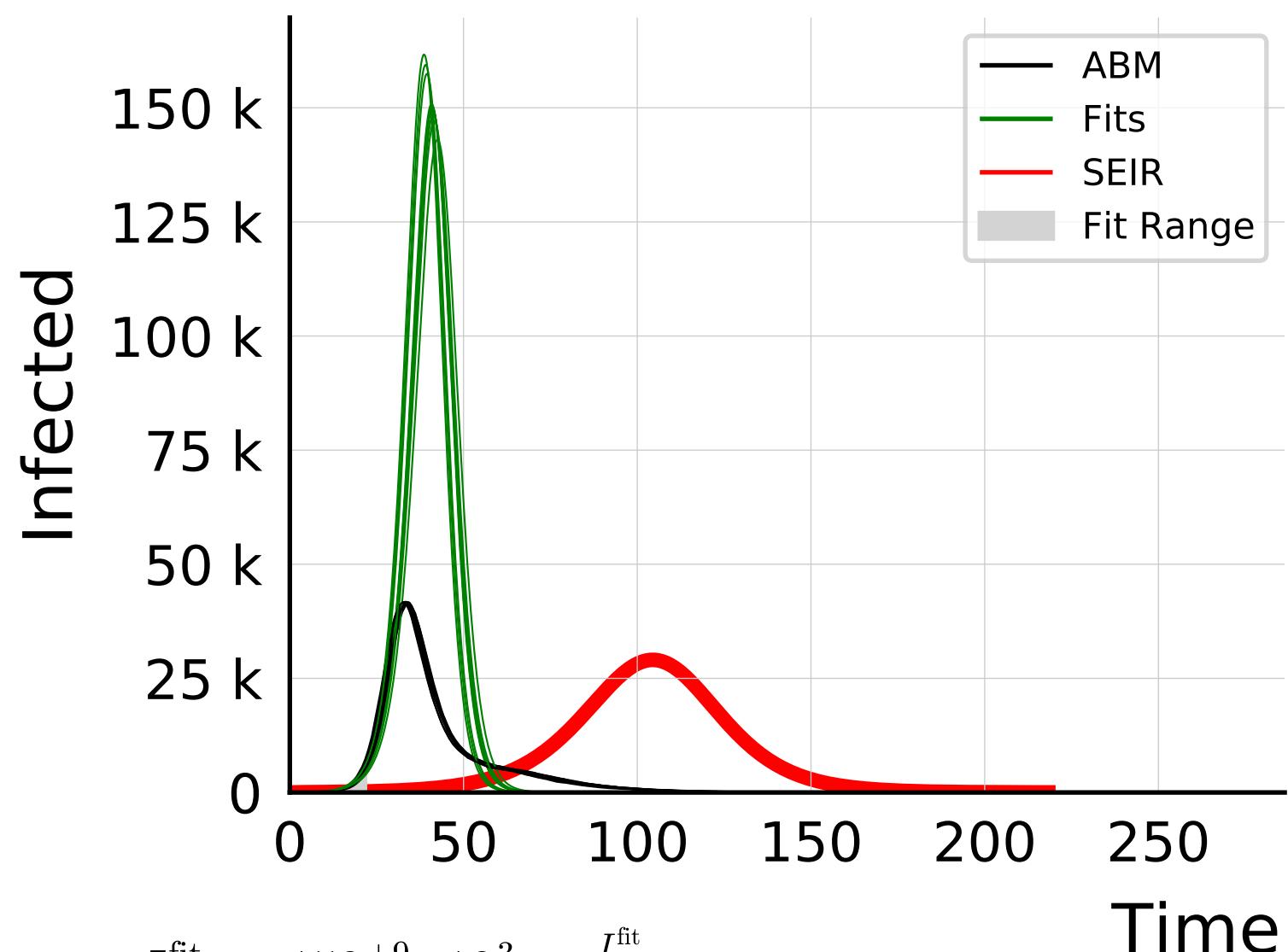


$$R_{\infty}^{\text{fit}} = 566_{-6}^{+3} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.604 \pm 0.0075$$

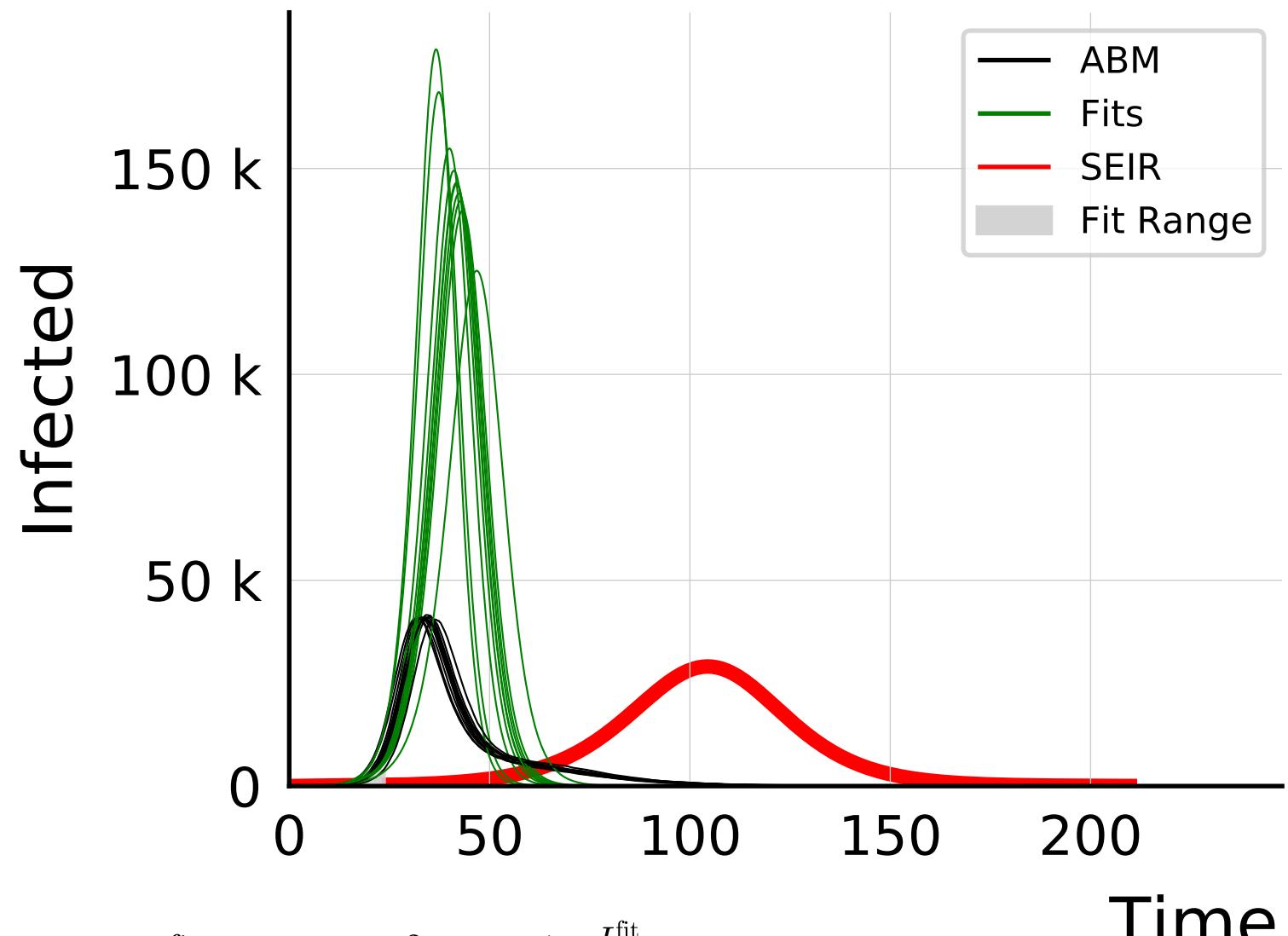
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.25$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



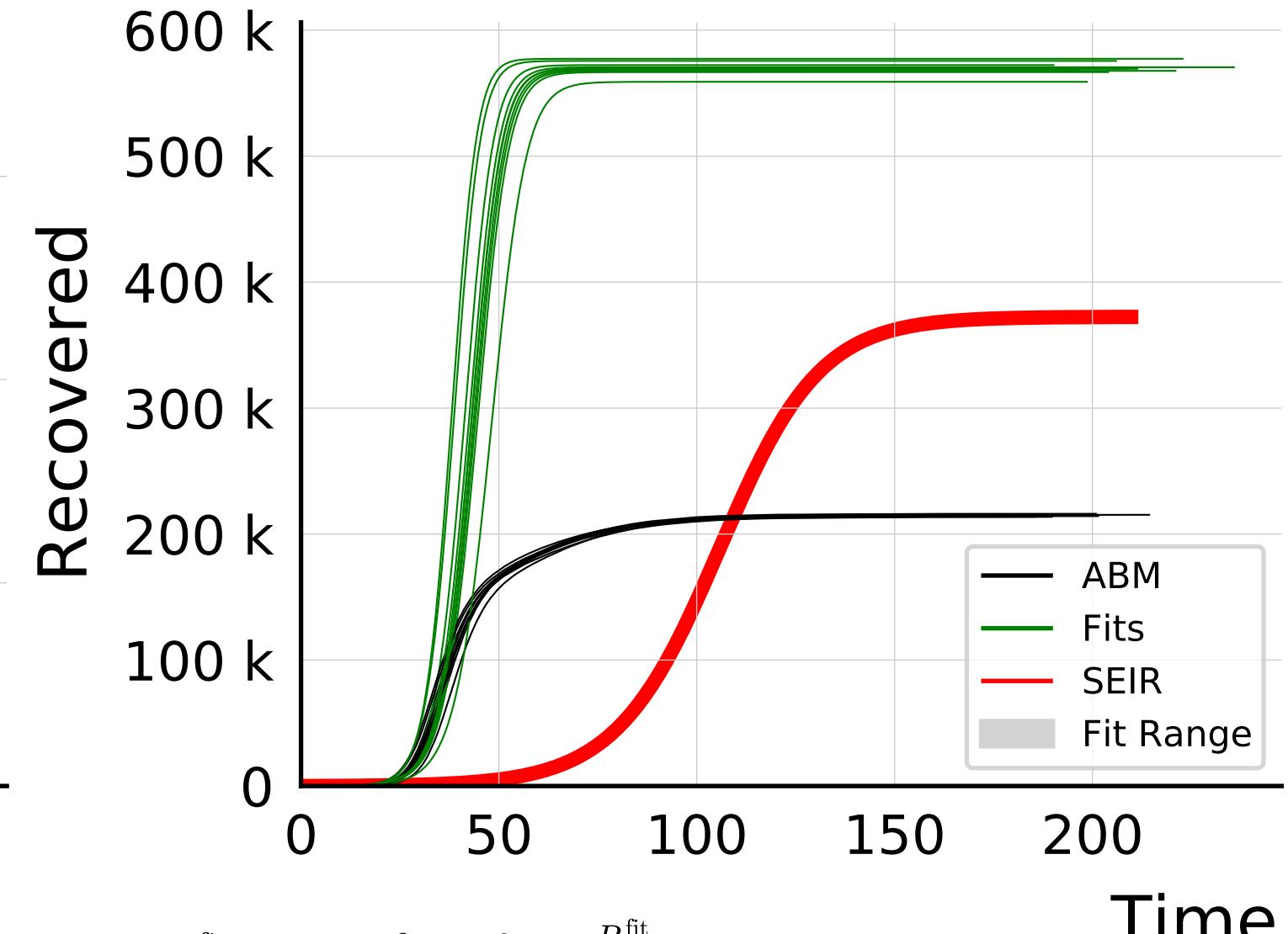
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.5$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.5$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

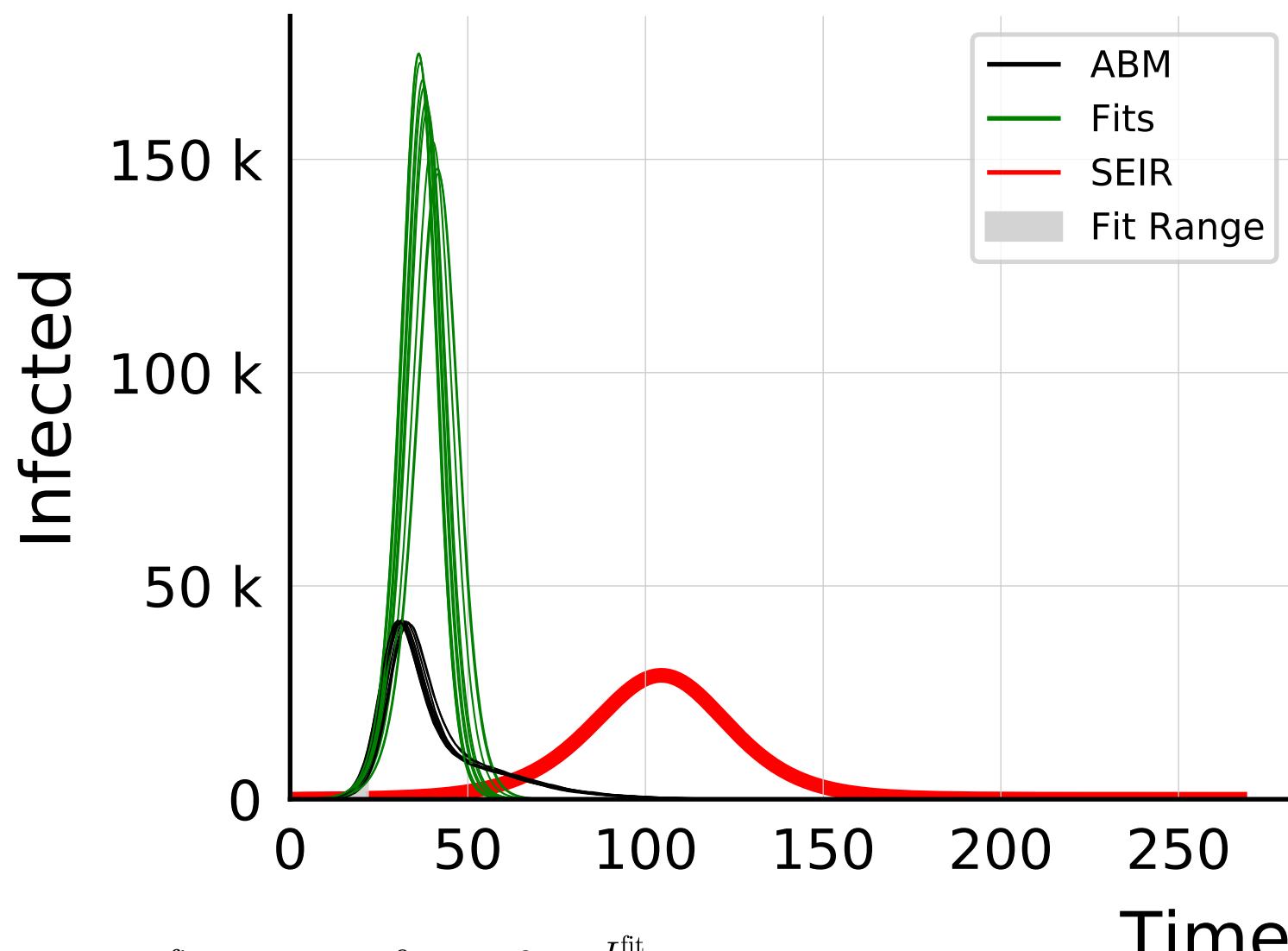


$$I_{\max}^{\text{fit}} = 14.6_{-0.7}^{+2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.7 \pm 0.11$$

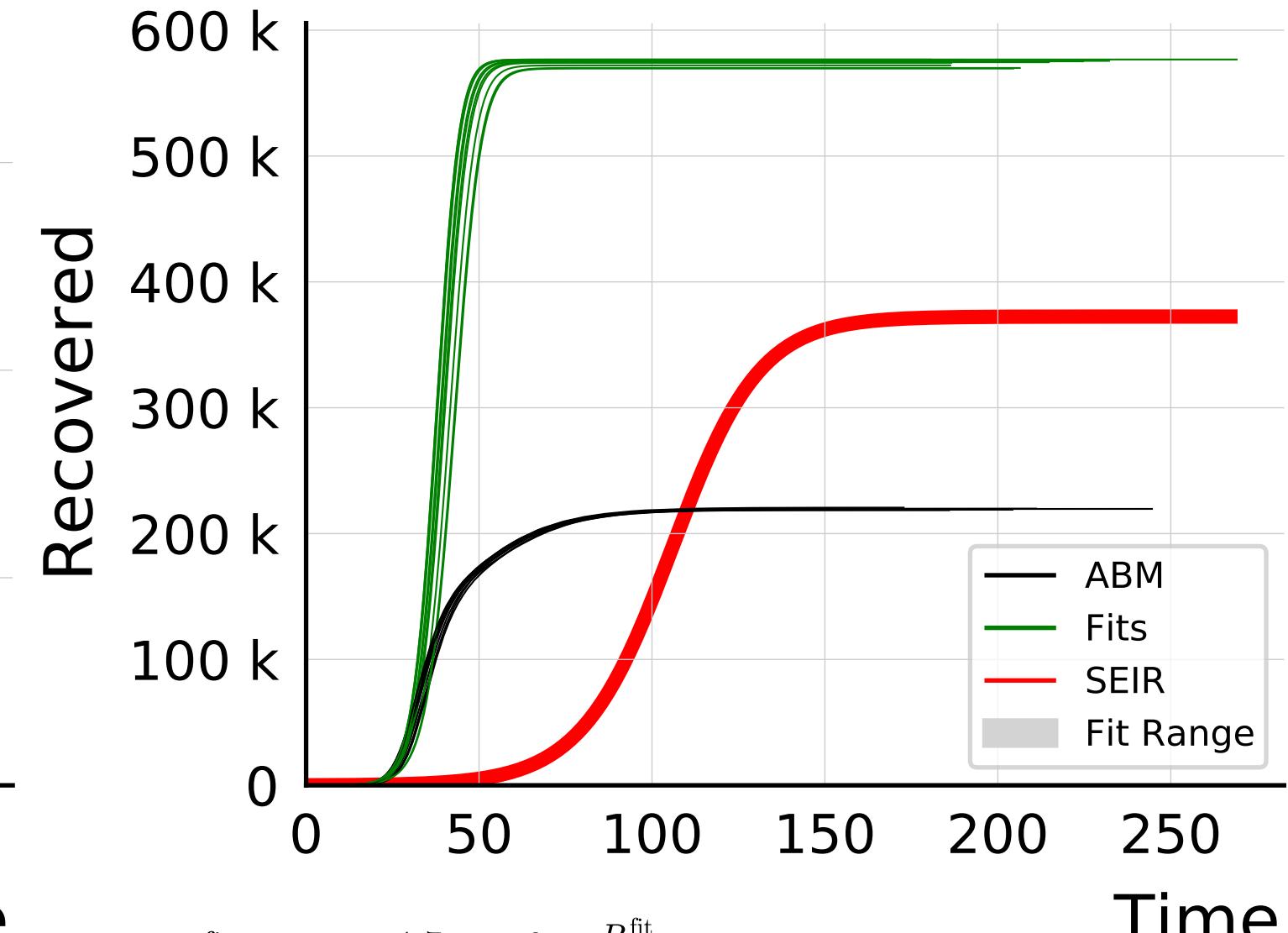


$$R_{\infty}^{\text{fit}} = 569_{-3}^{+6} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.652 \pm 0.0078$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

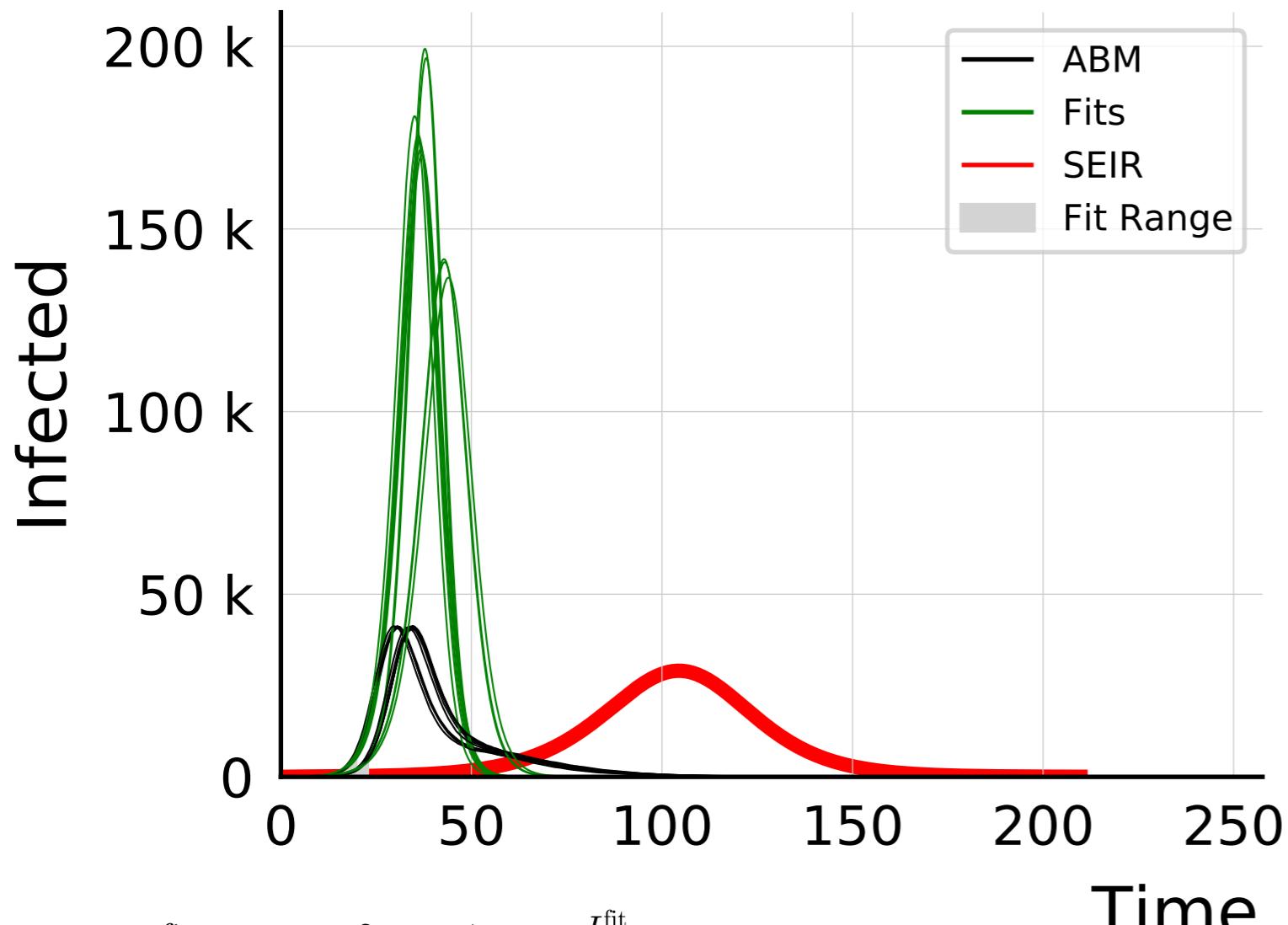


$$I_{\max}^{\text{fit}} = 165_{-17}^{+9} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.93 \pm 0.075$$



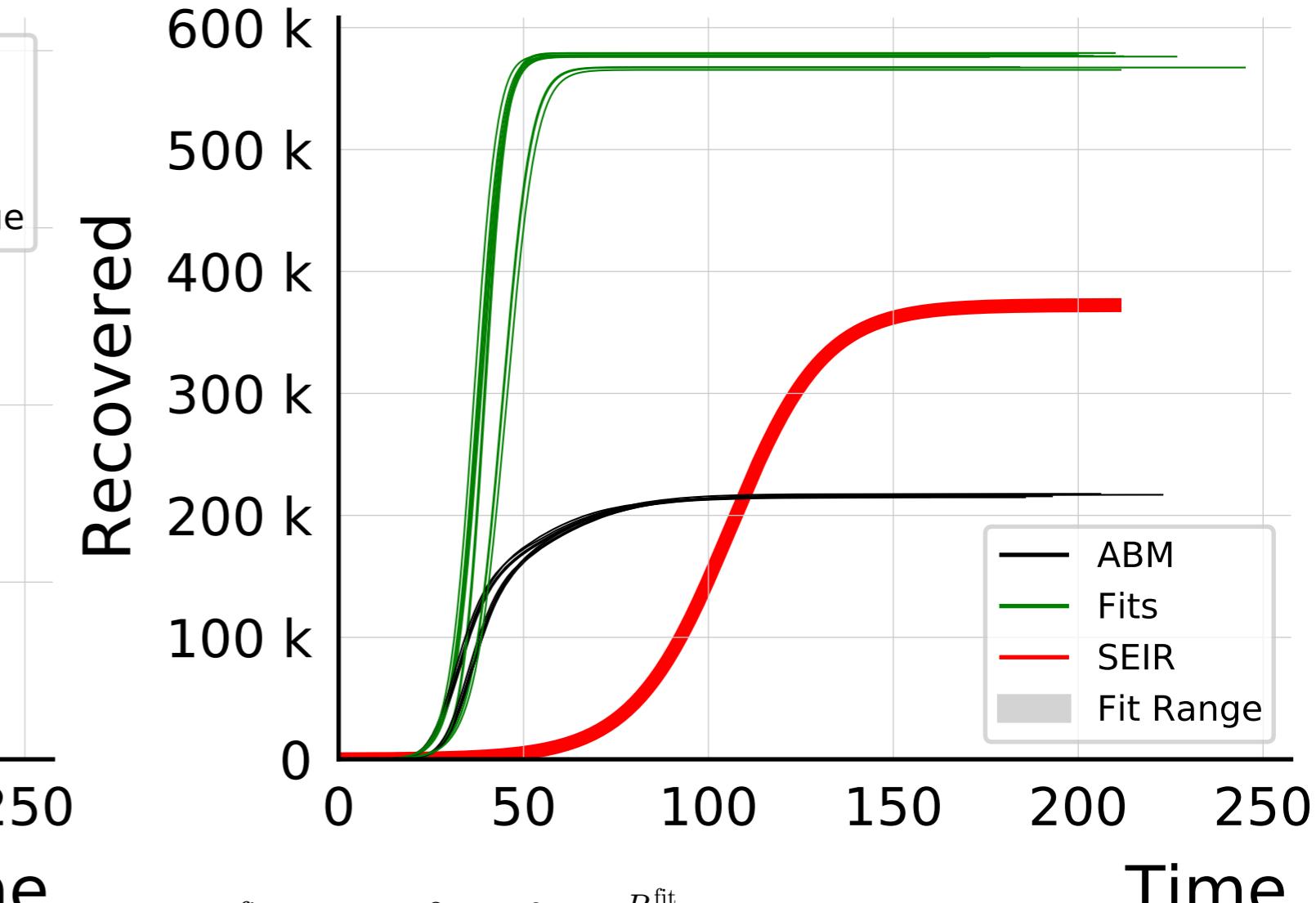
$$R_{\infty}^{\text{fit}} = 575_{-5}^{+1.7} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.616 \pm 0.0031$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 17_{-3}^{+2} \cdot 10^4$$

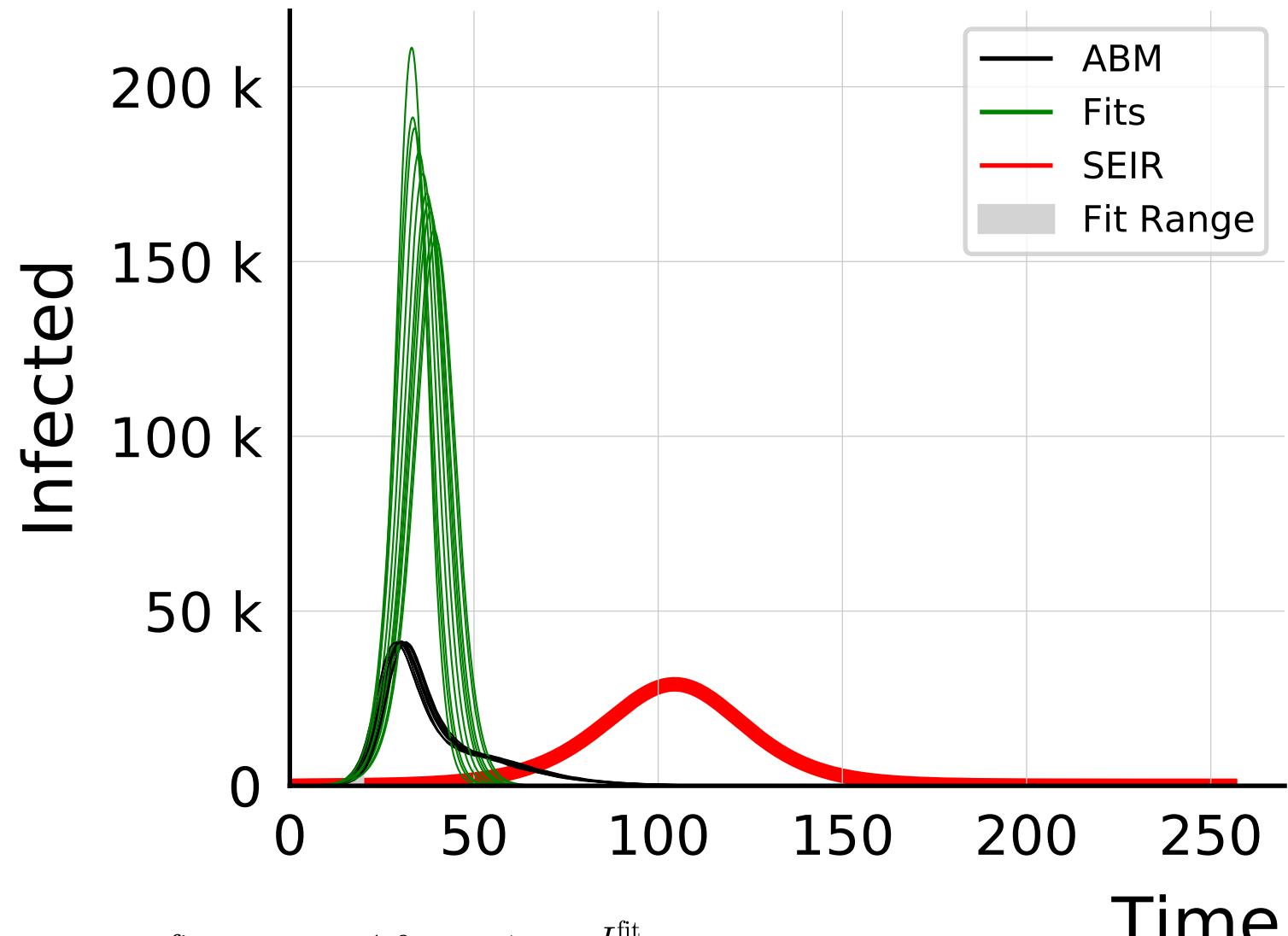
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.1 \pm 0.16$$



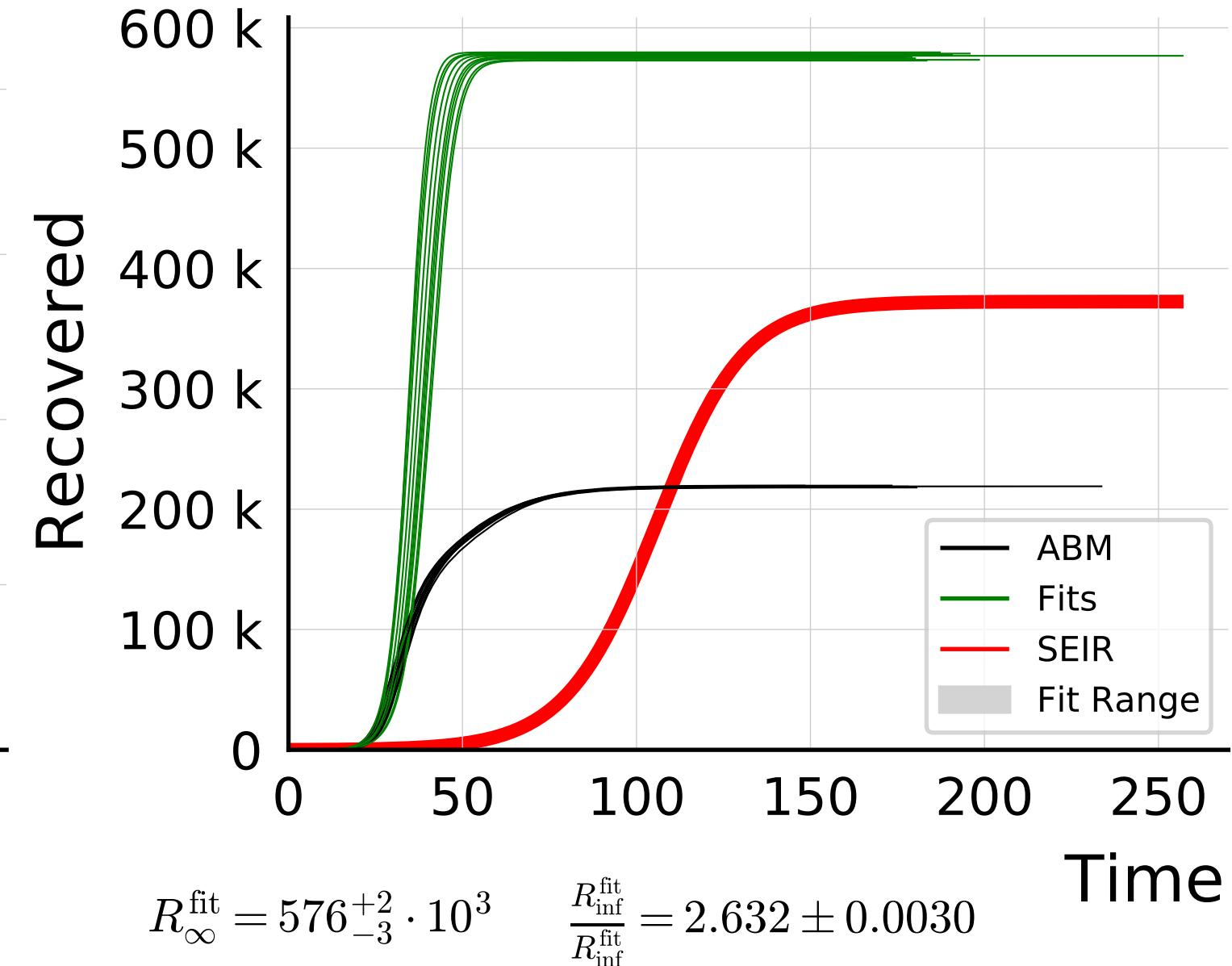
$$R_{\infty}^{\text{fit}} = 576_{-9}^{+3} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.658 \pm 0.0091$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

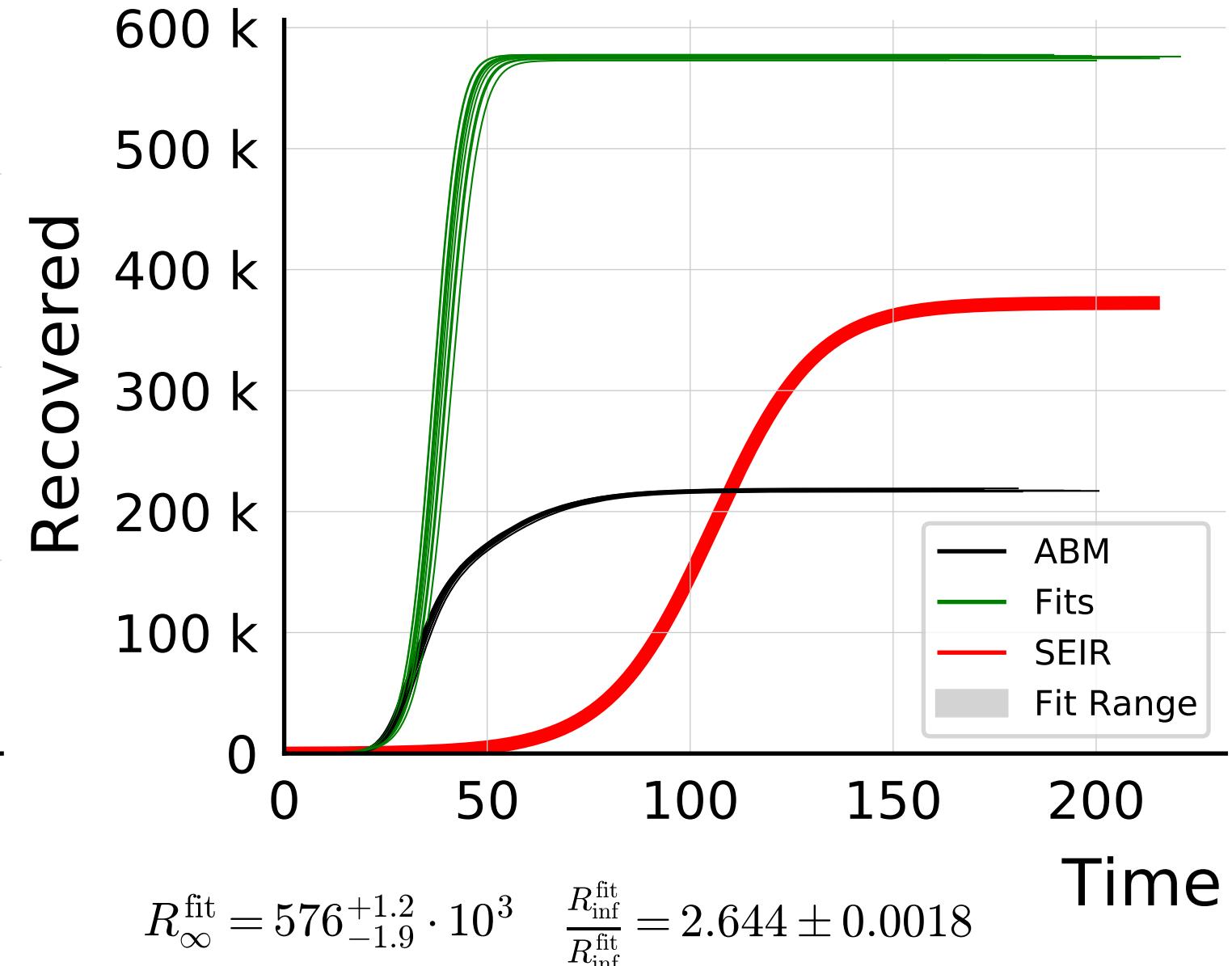
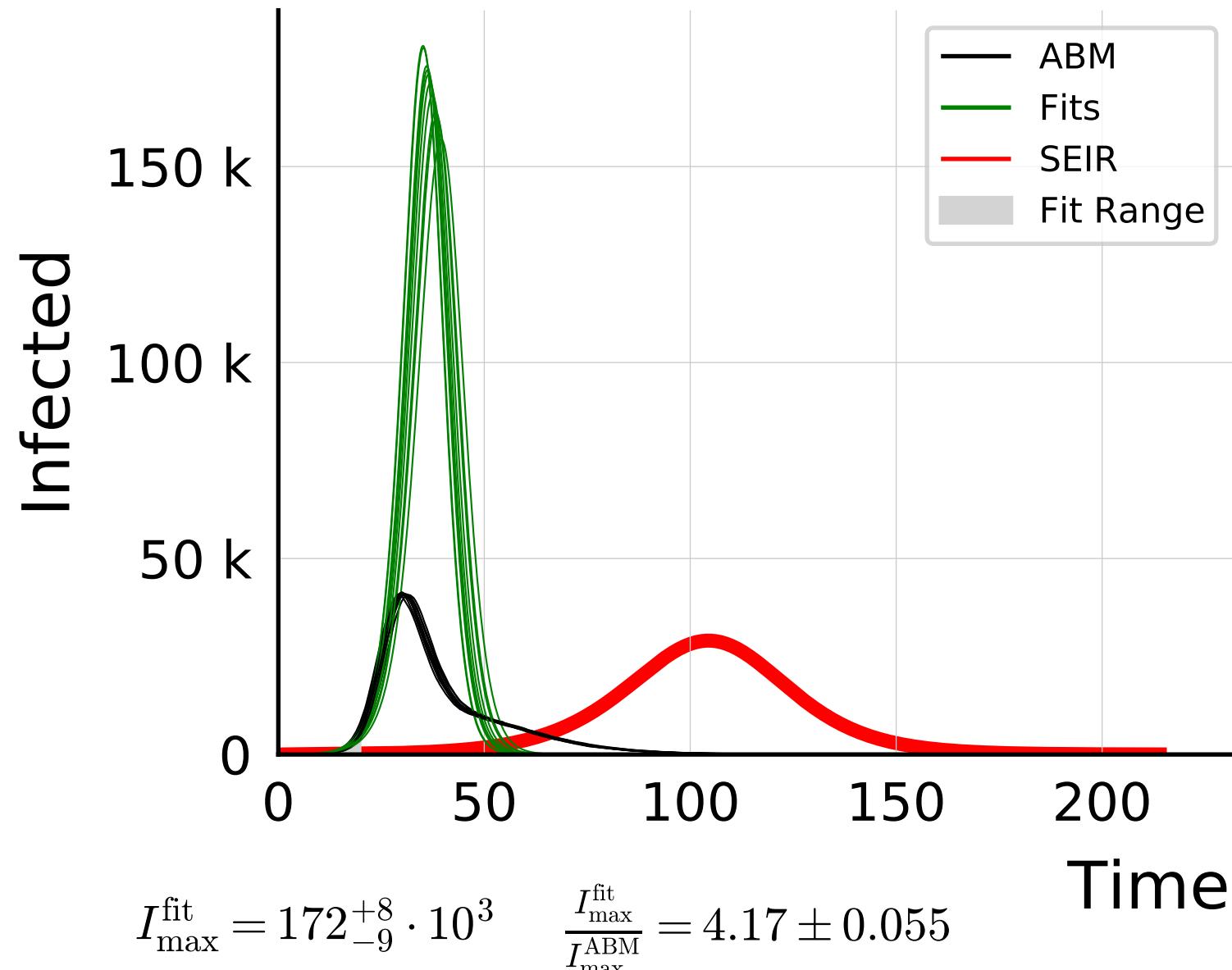


$$I_{\max}^{\text{fit}} = 17^{+1.9}_{-1.3} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.3 \pm 0.12$$

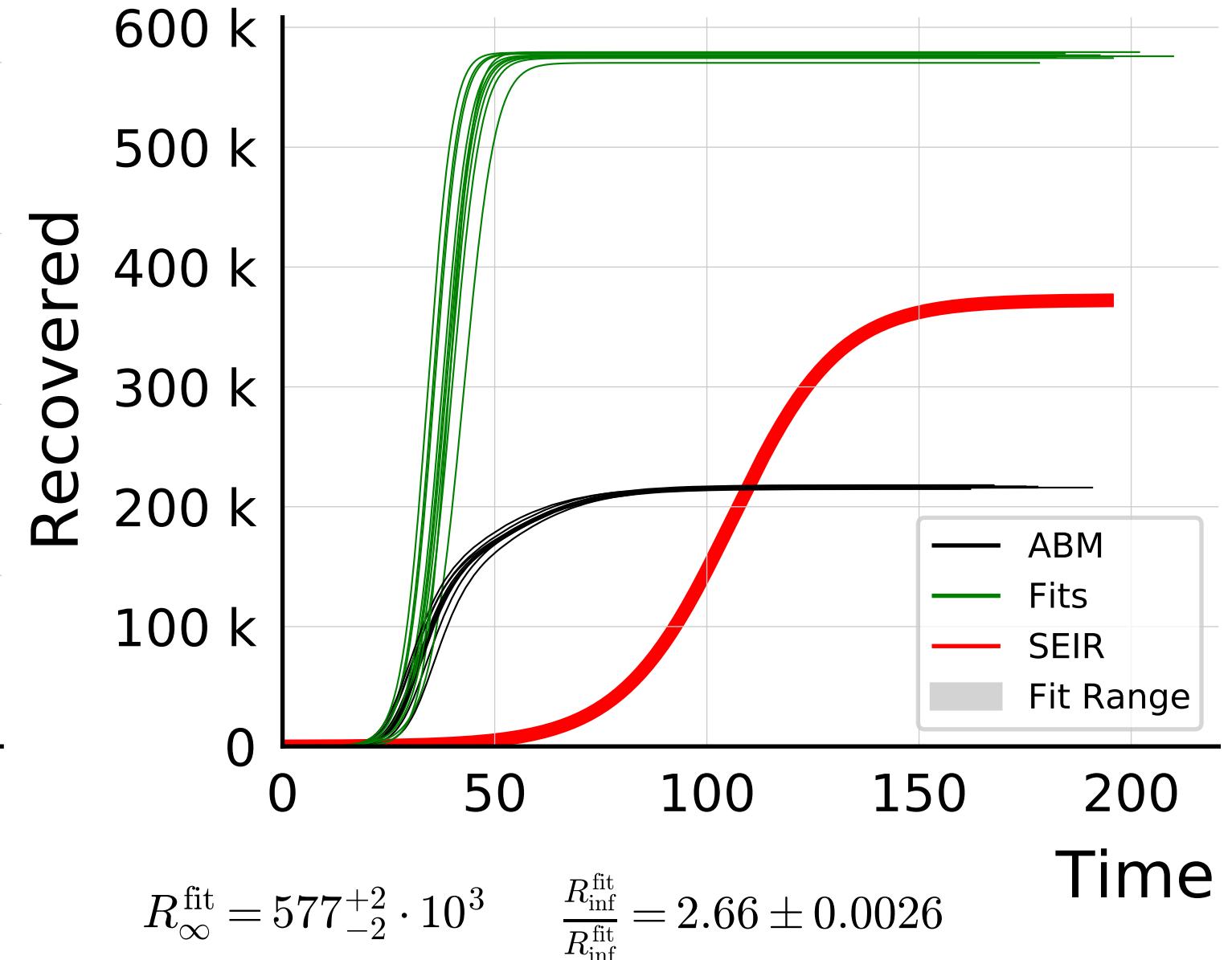
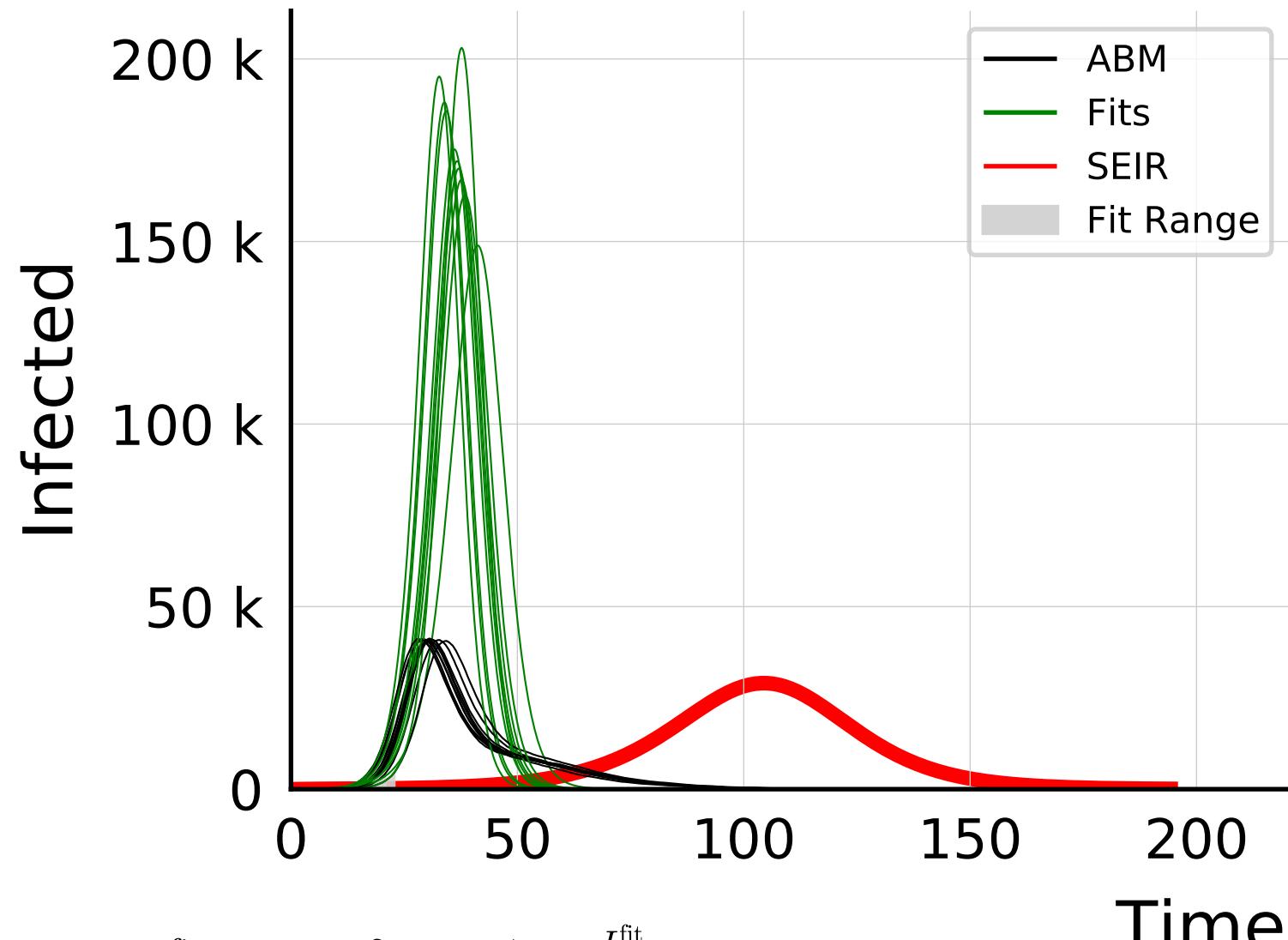


$$R_{\infty}^{\text{fit}} = 576^{+2}_{-3} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.632 \pm 0.0030$$

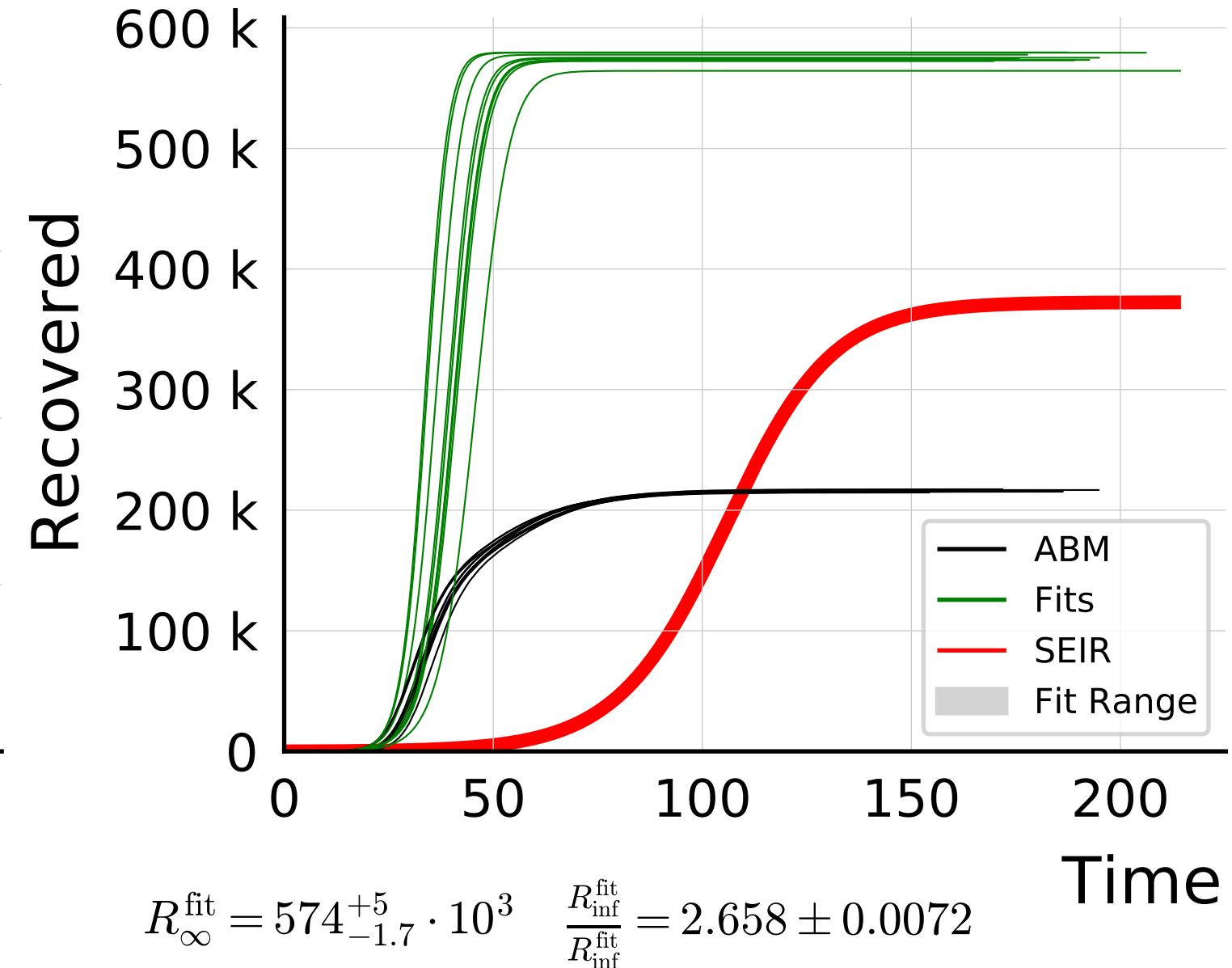
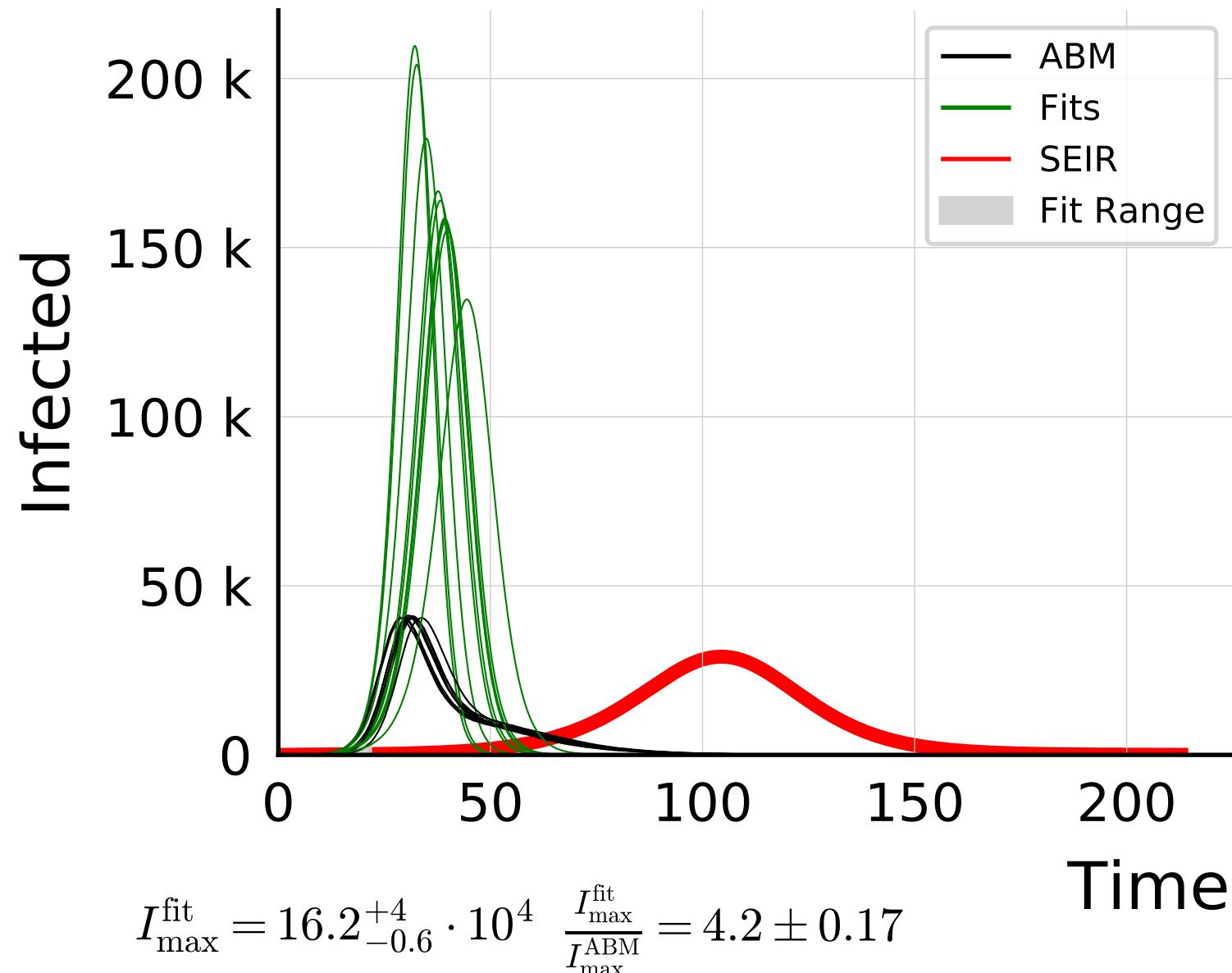
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.25$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



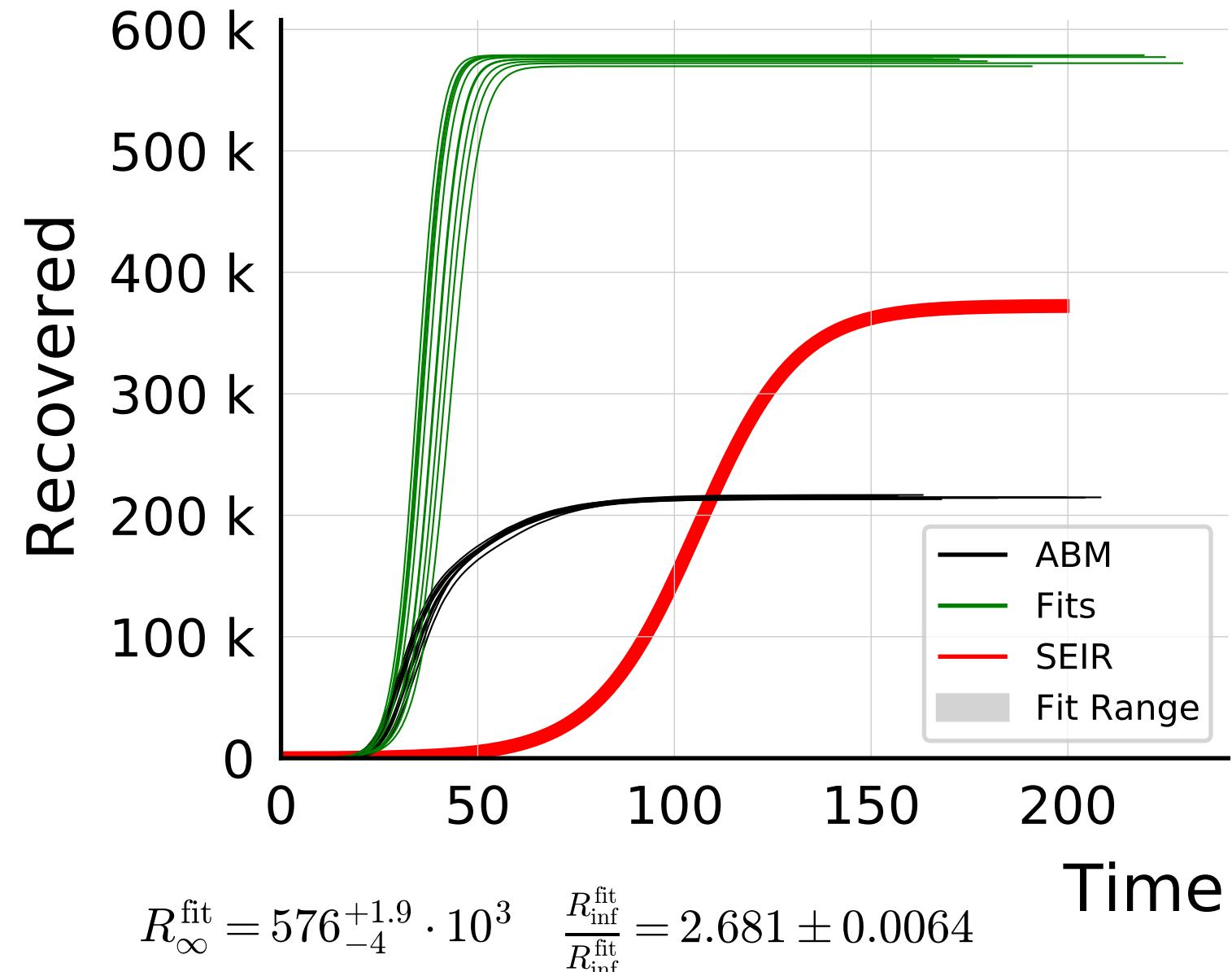
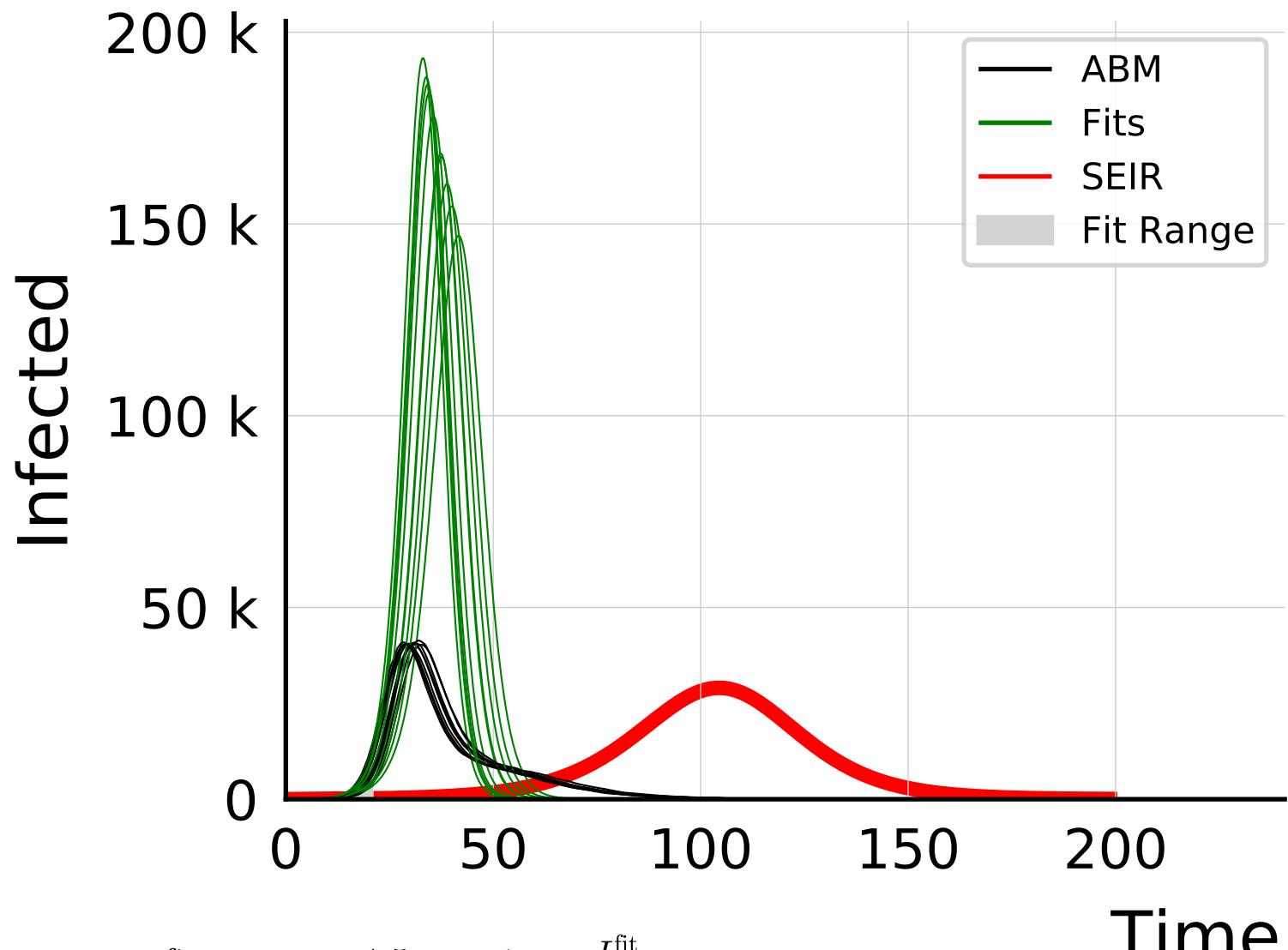
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.5$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



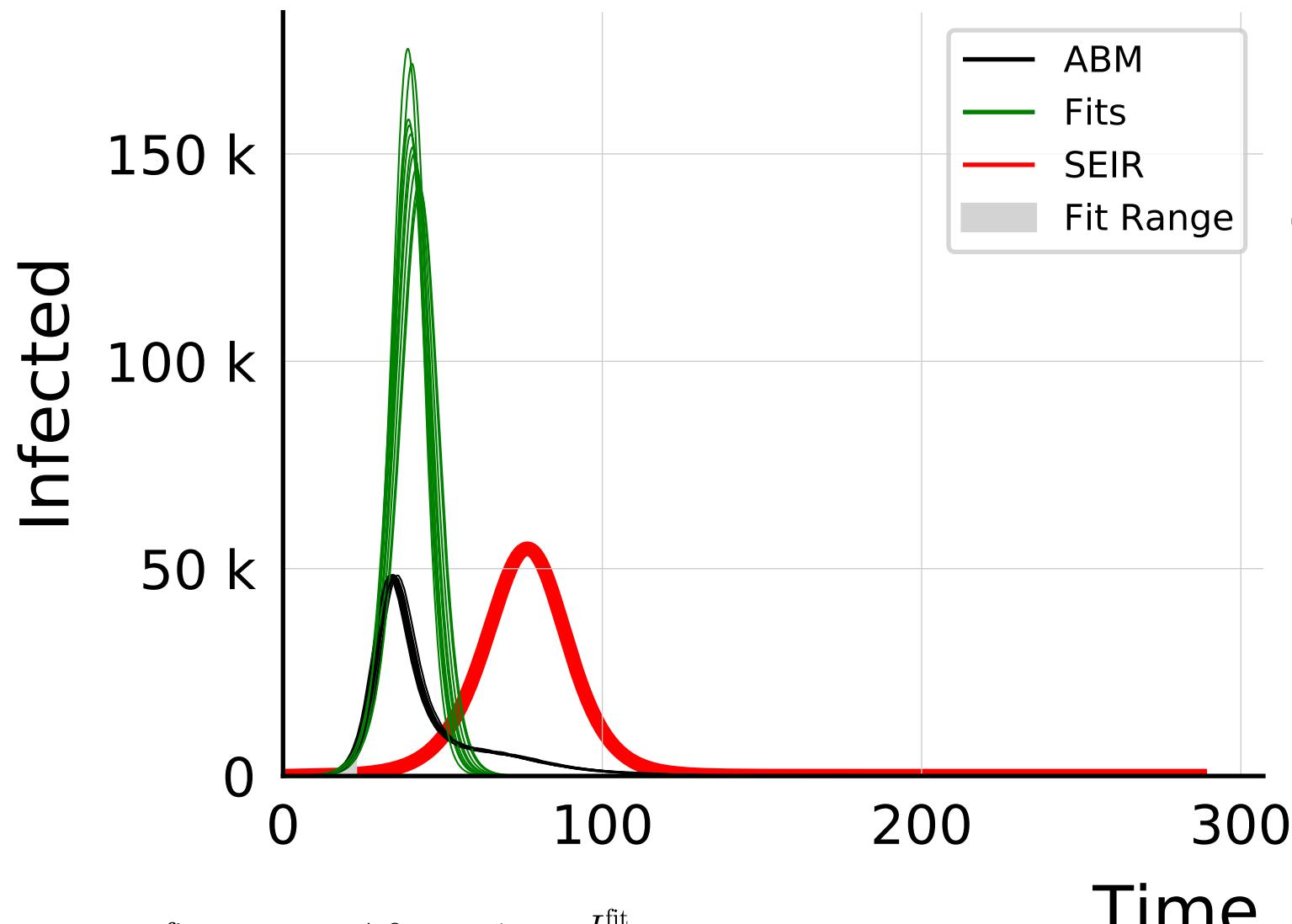
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.75$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



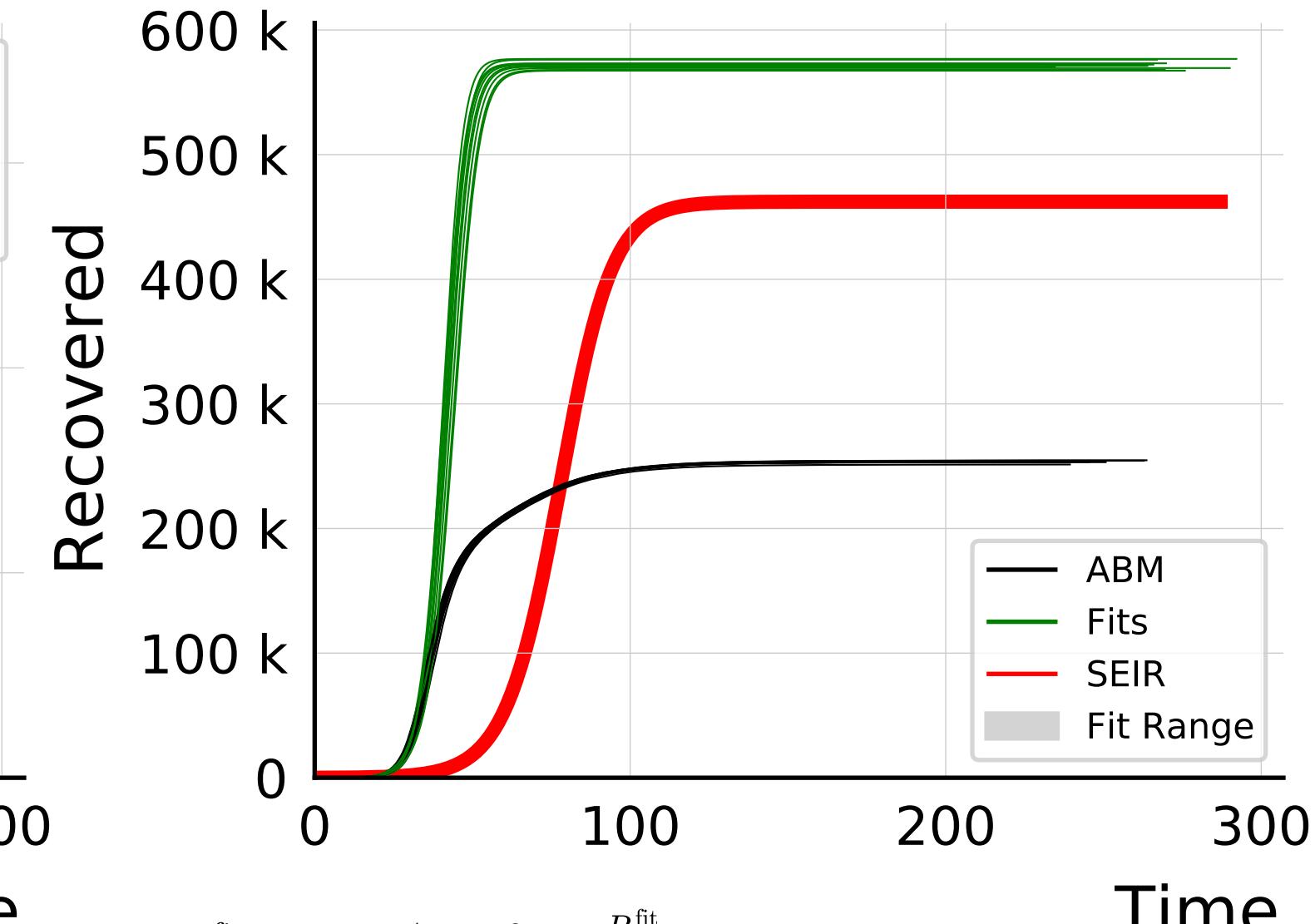
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 1.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 50.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

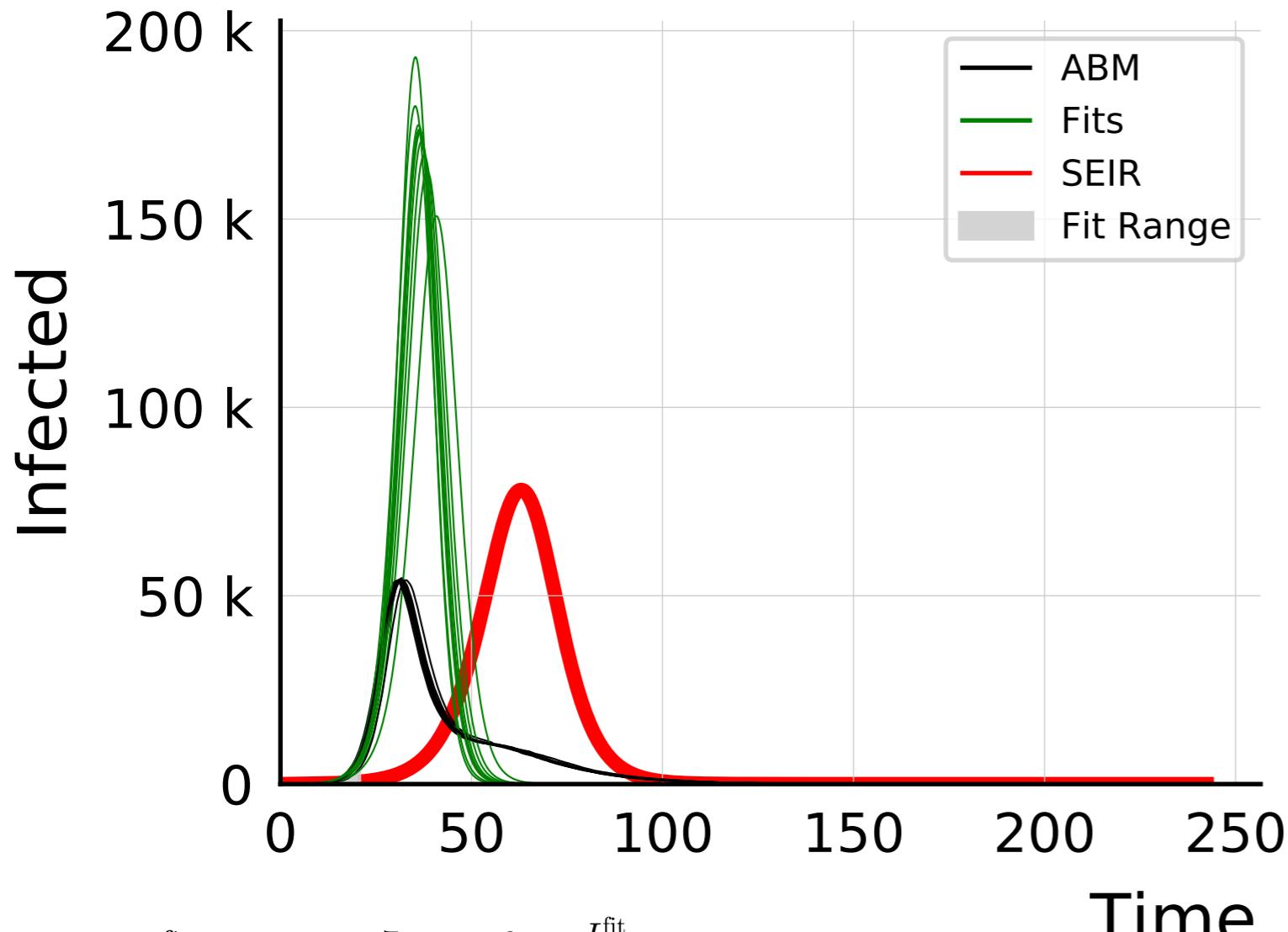


$$I_{\max}^{\text{fit}} = 15^{+1.8}_{-1.0} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.21 \pm 0.070$$

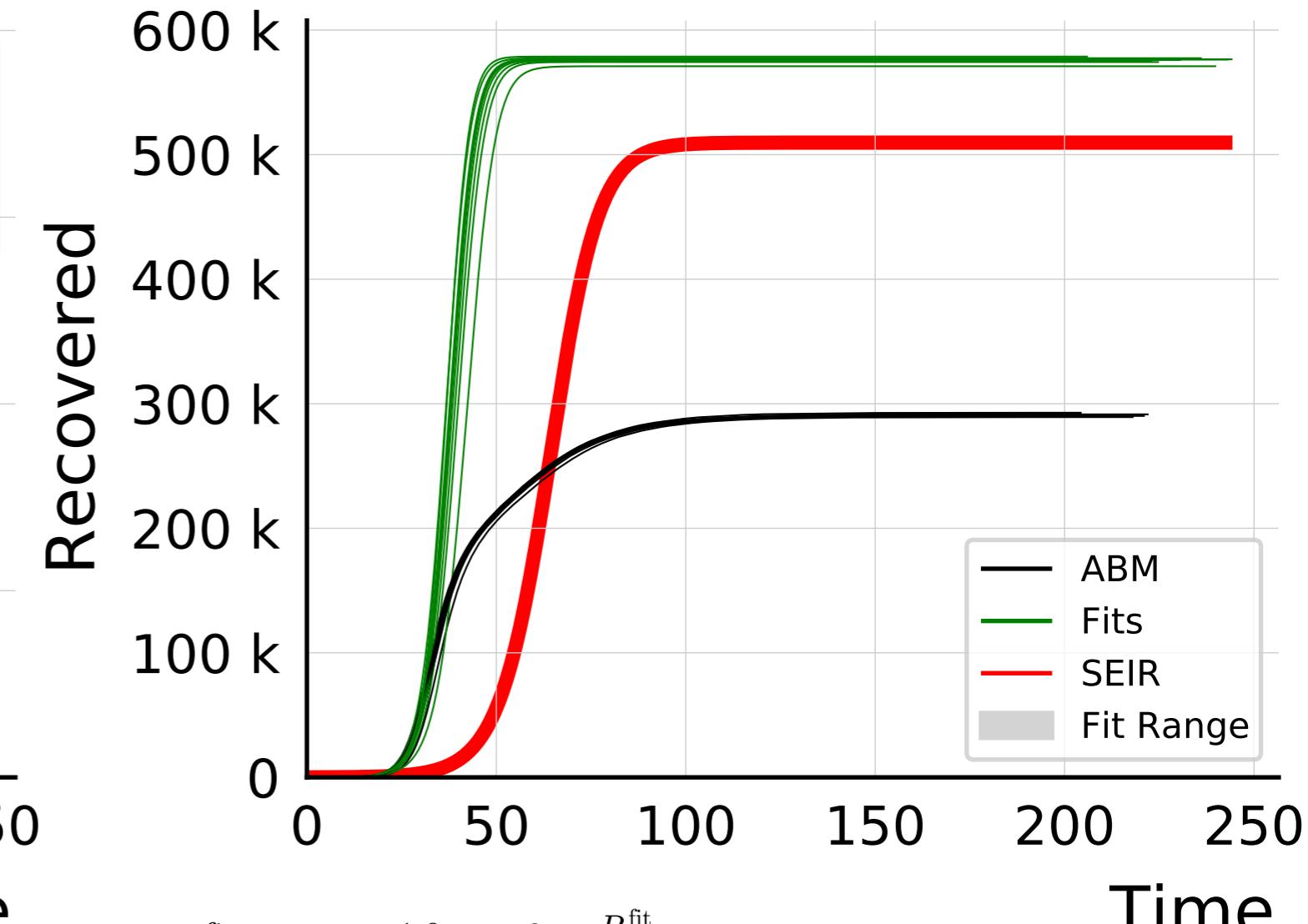


$$R_{\infty}^{\text{fit}} = 572^{+4}_{-4} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.255 \pm 0.0051$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 60.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

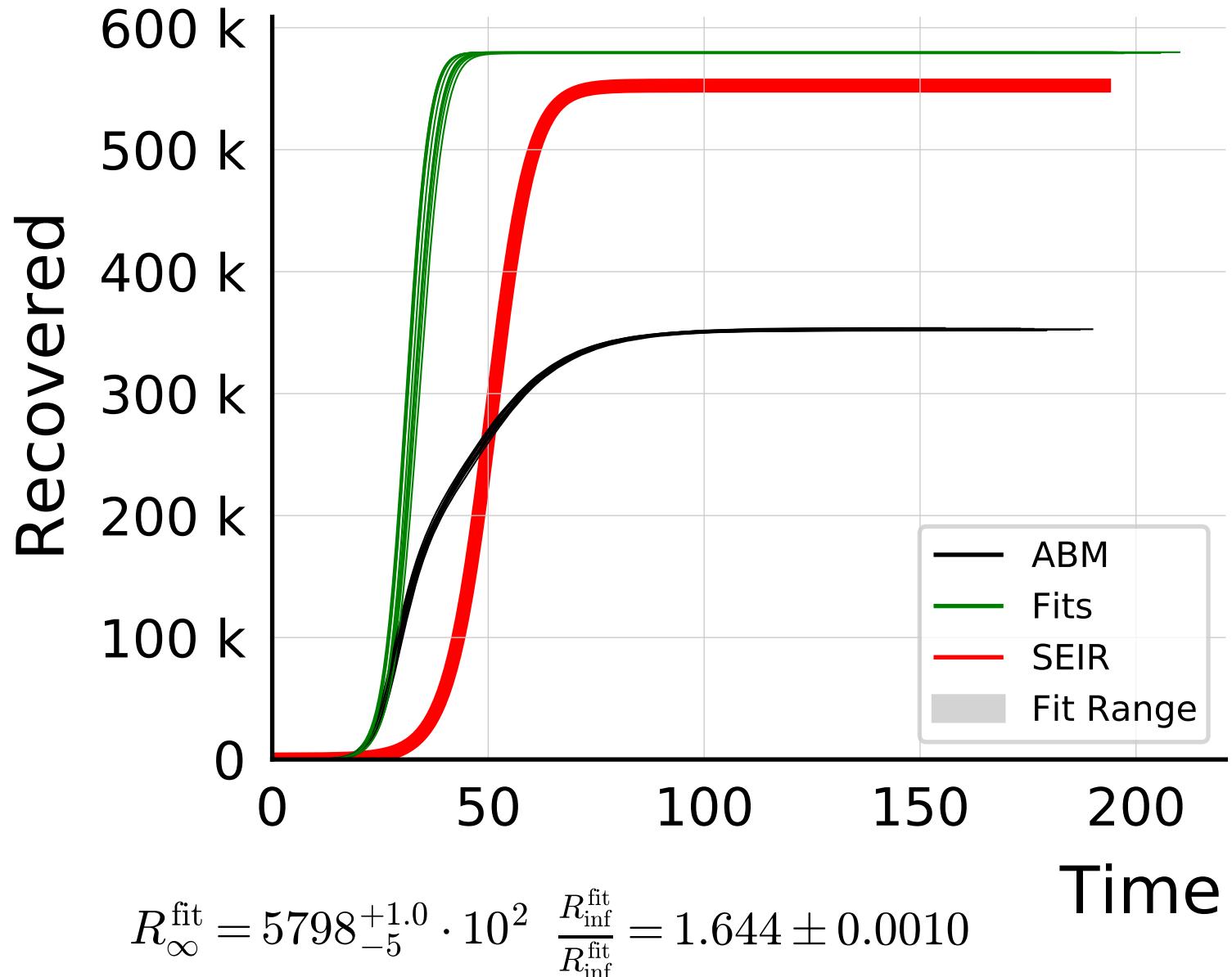
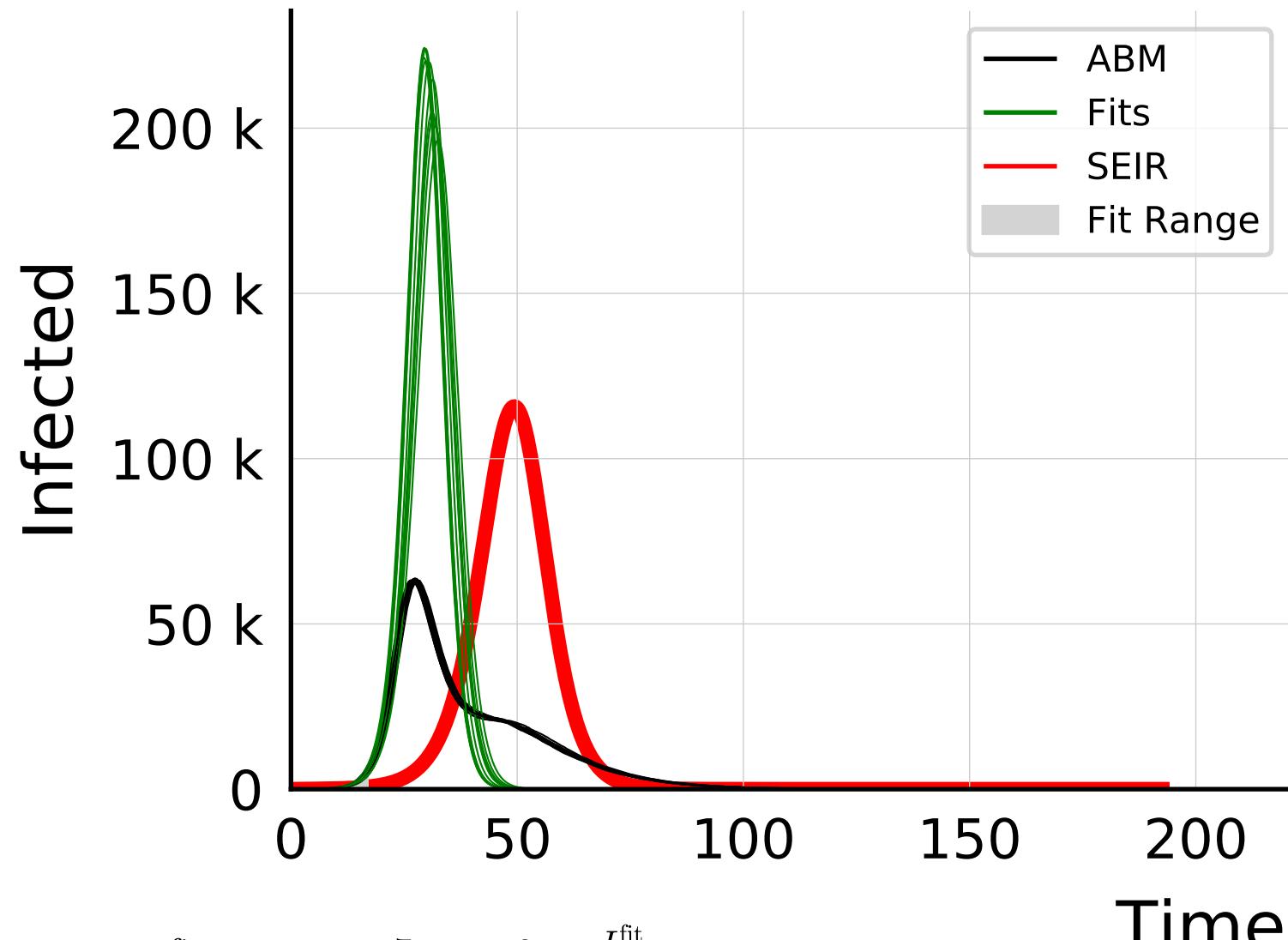


$$I_{\max}^{\text{fit}} = 173_{-10}^{+7} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.17 \pm 0.062$$

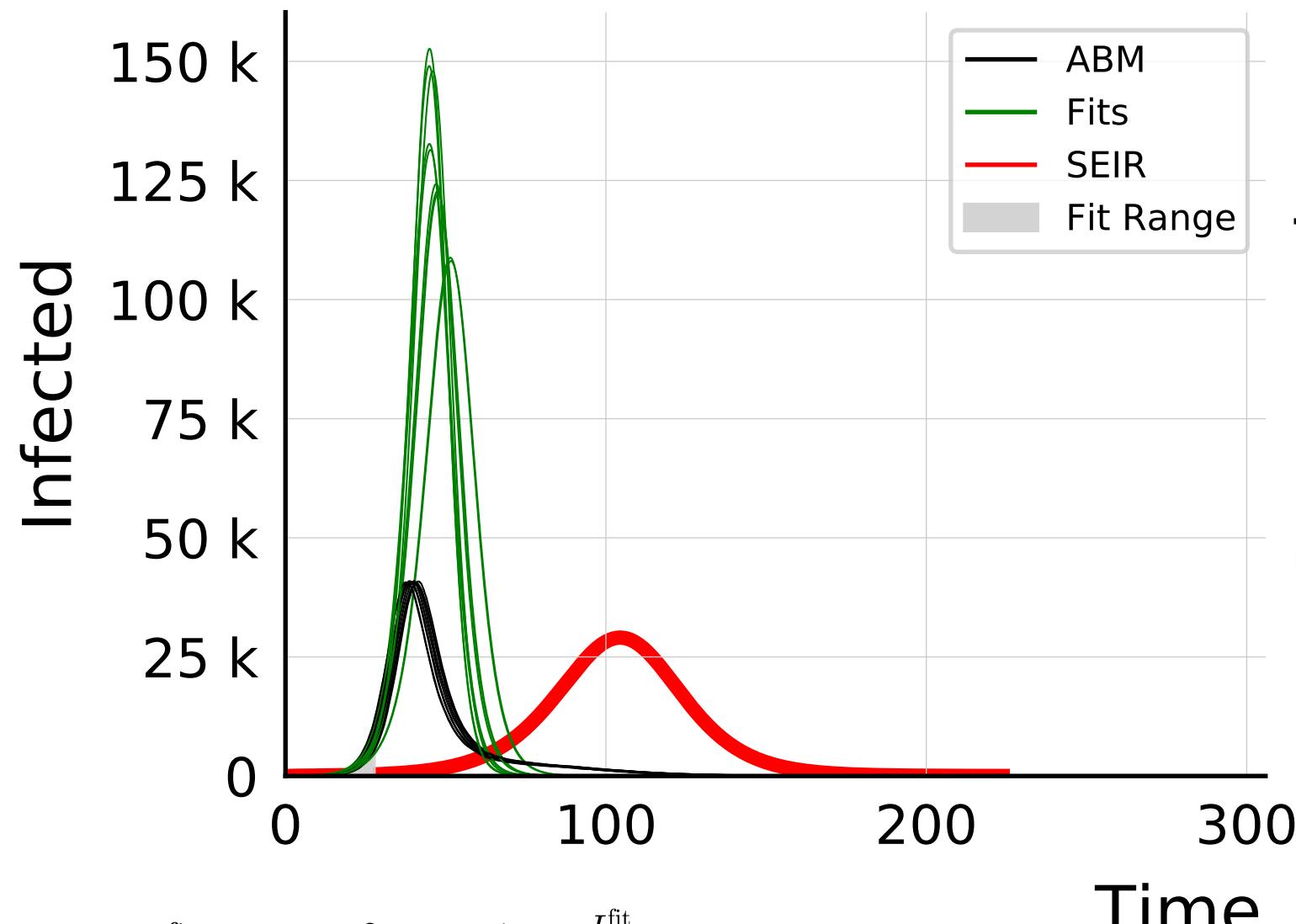


$$R_{\infty}^{\text{fit}} = 576_{-2}^{+1.0} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.982 \pm 0.0029$$

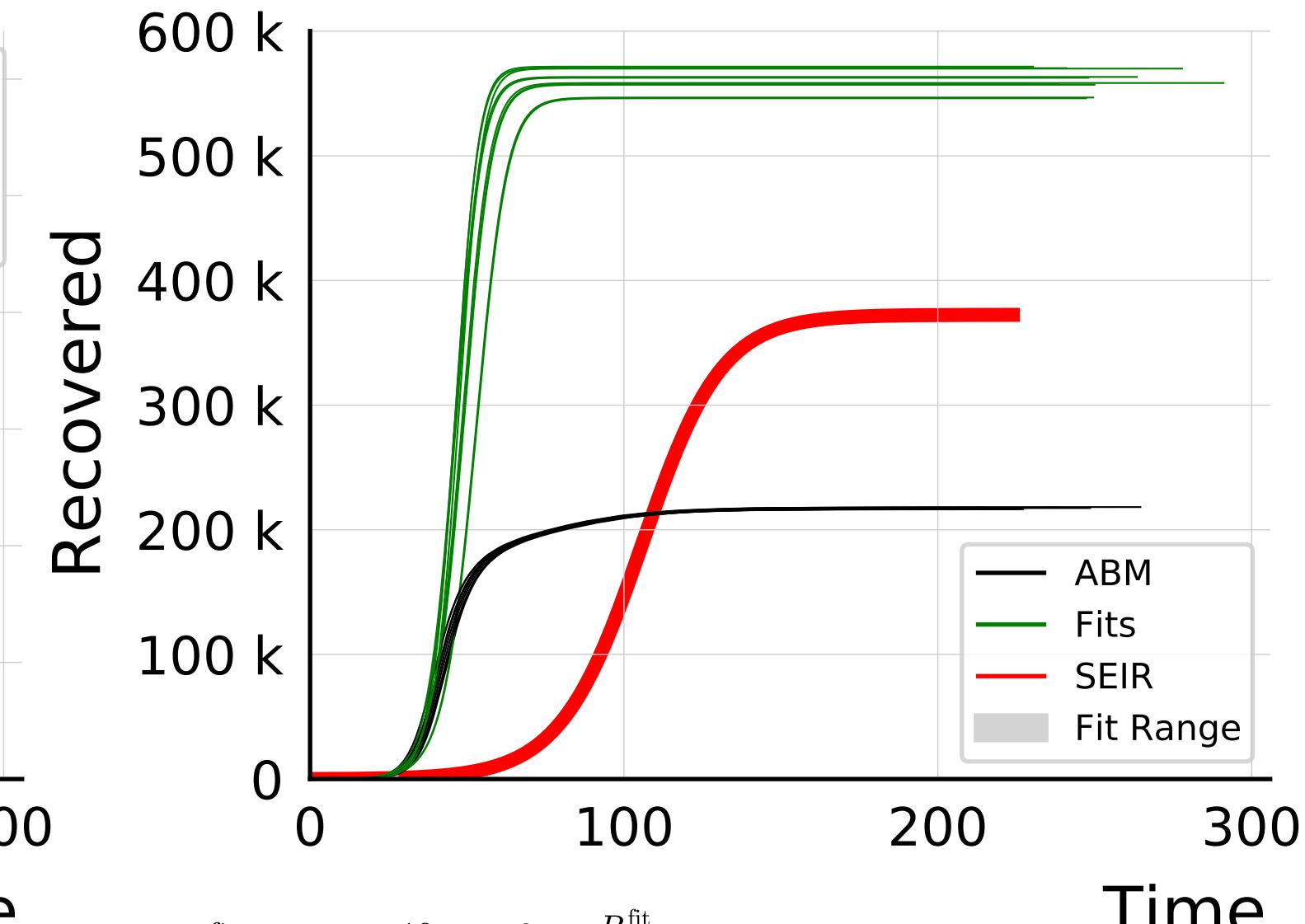
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 80.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.05$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

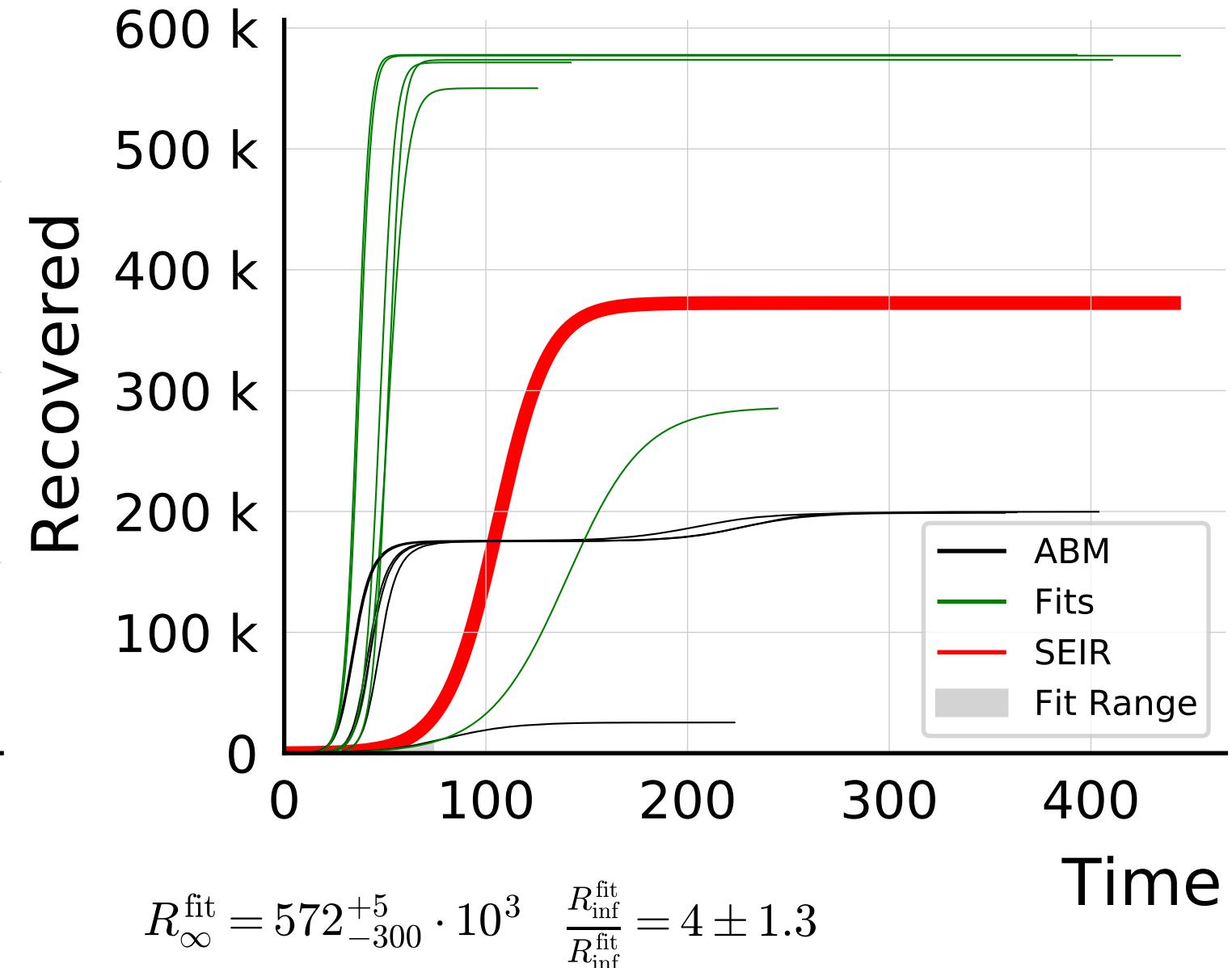
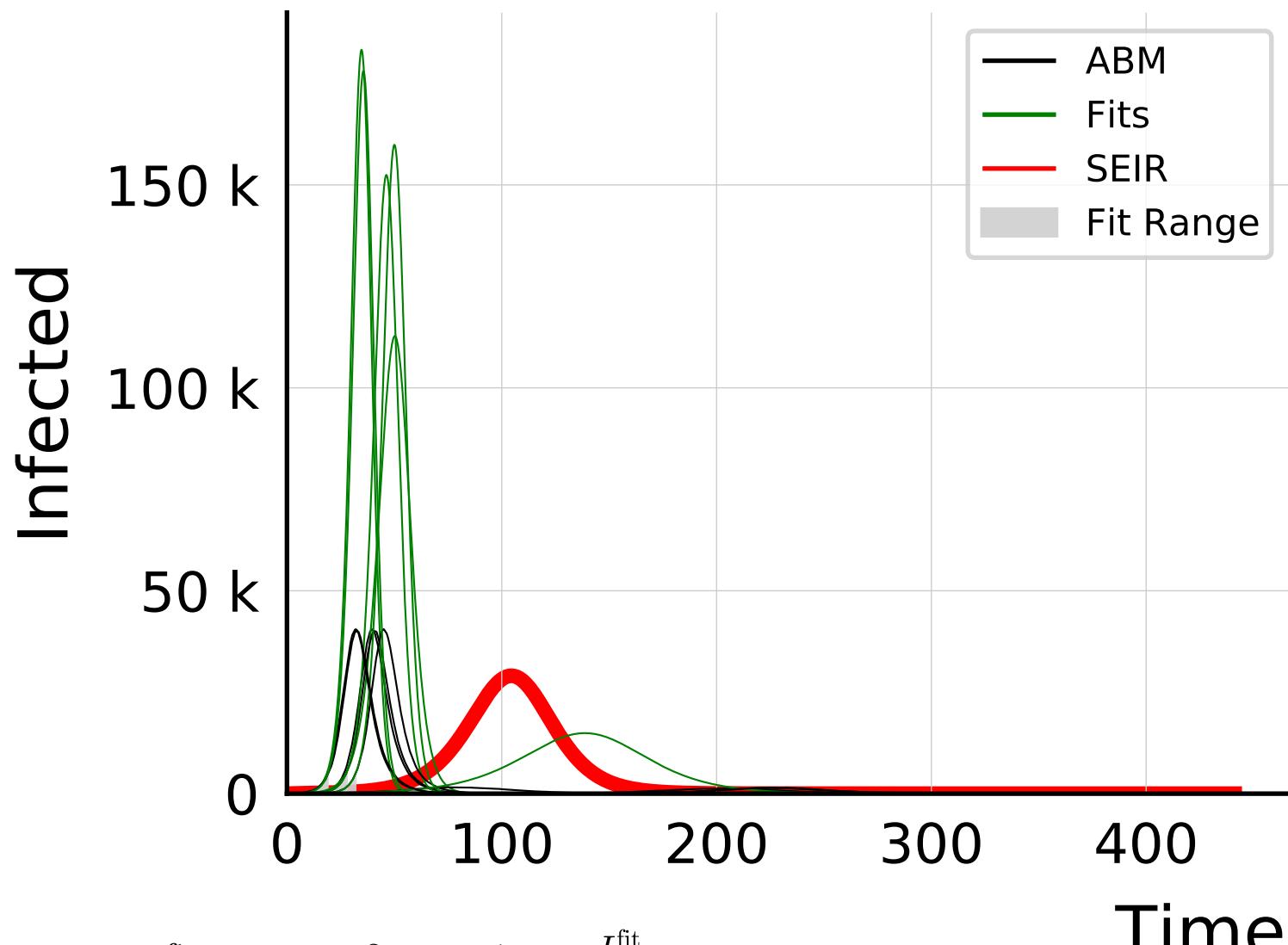


$$I_{\max}^{\text{fit}} = 13_{-1.9}^{+2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.2 \pm 0.12$$

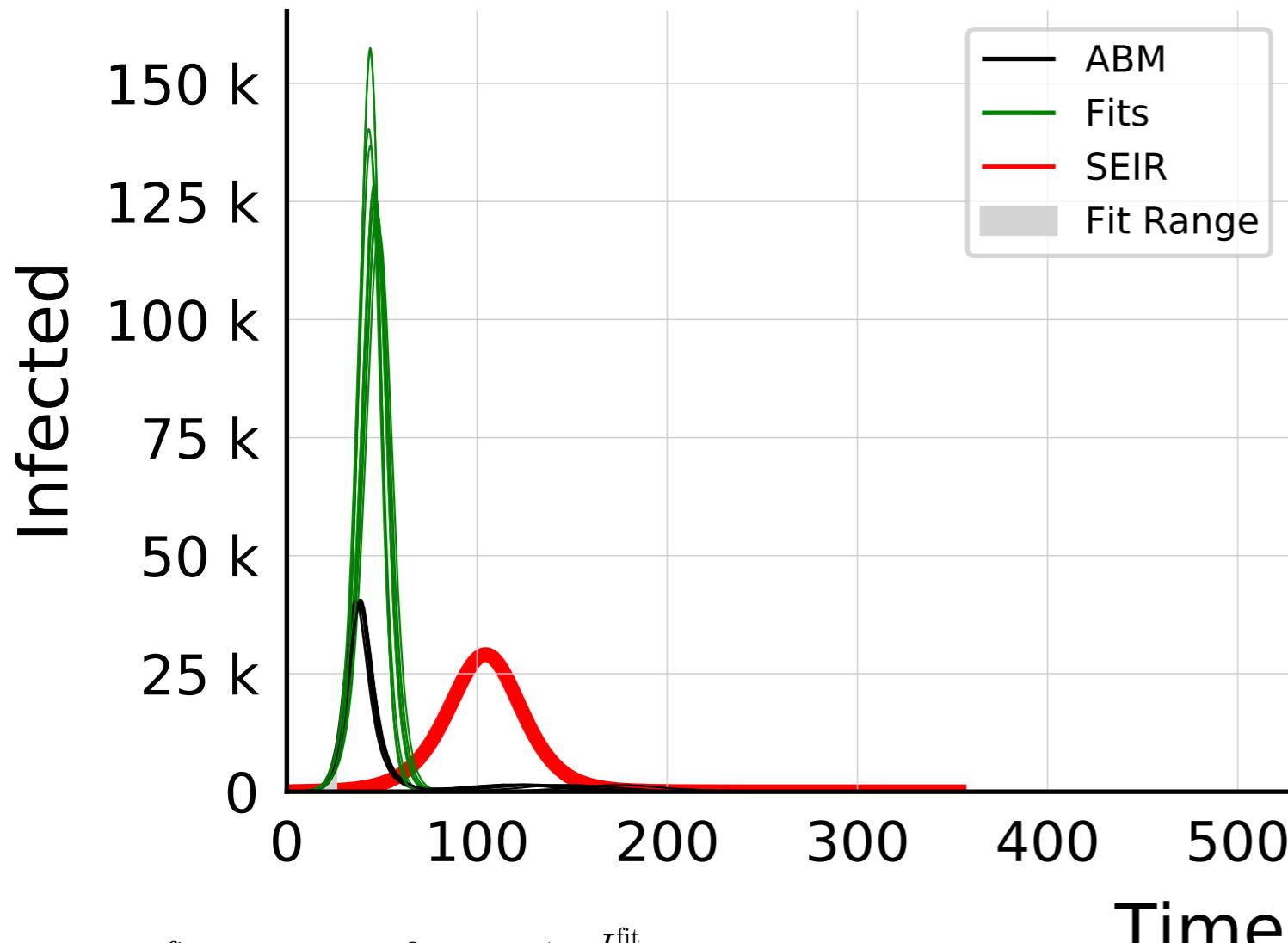


$$R_{\infty}^{\text{fit}} = 561_{-14}^{+10} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.58 \pm 0.012$$

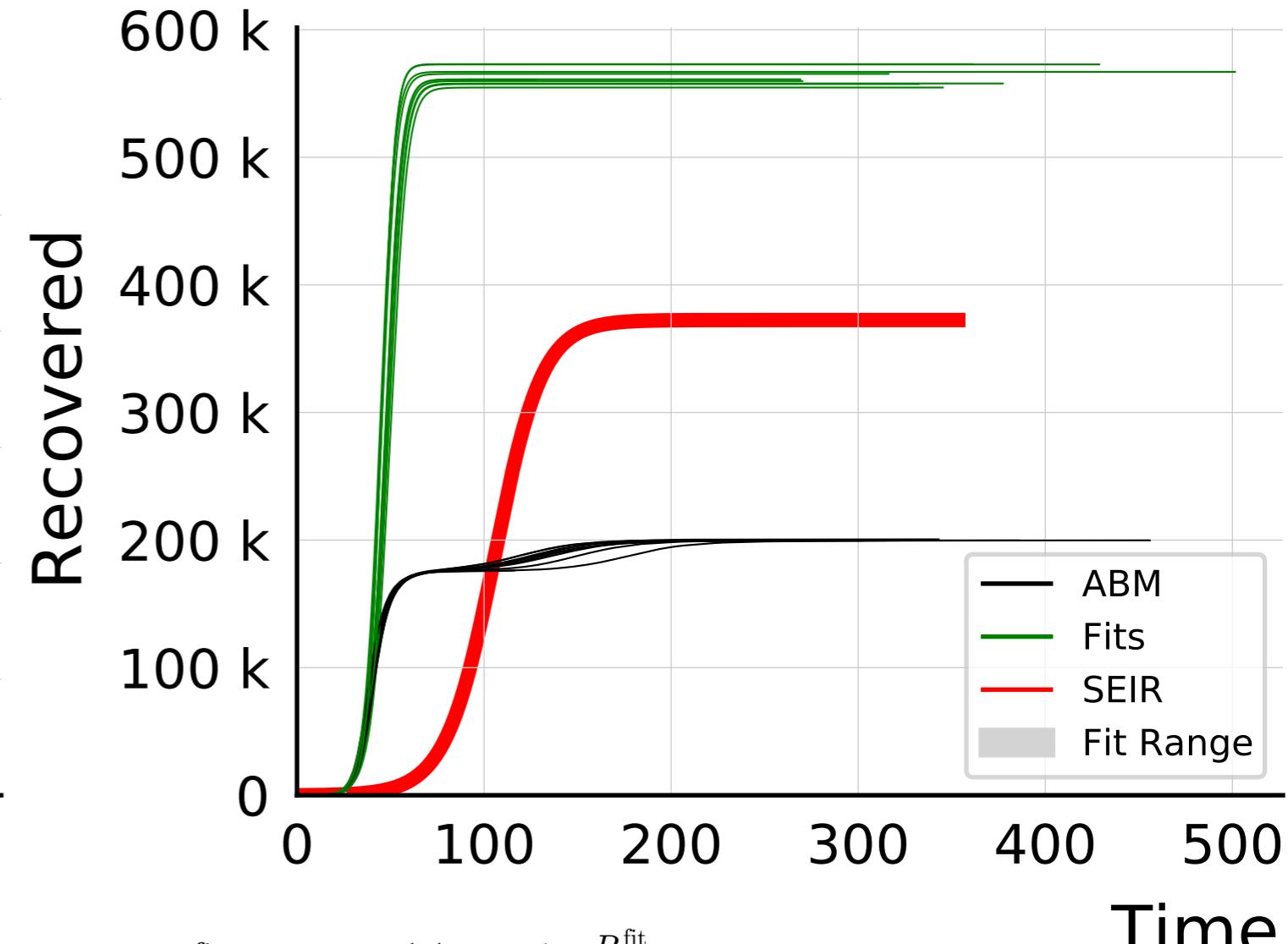
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.0$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = False, v. = 1.0, #6



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.0$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

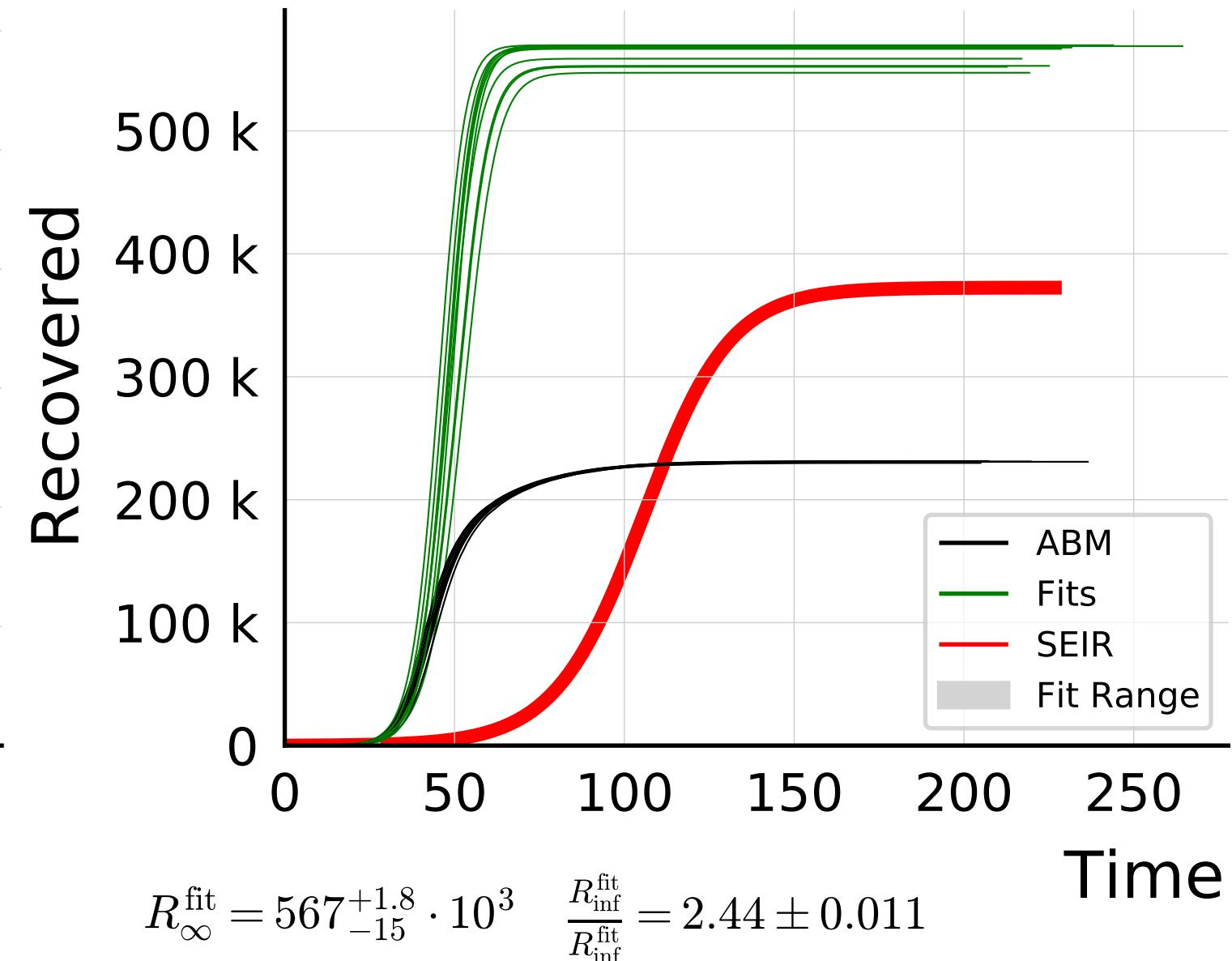
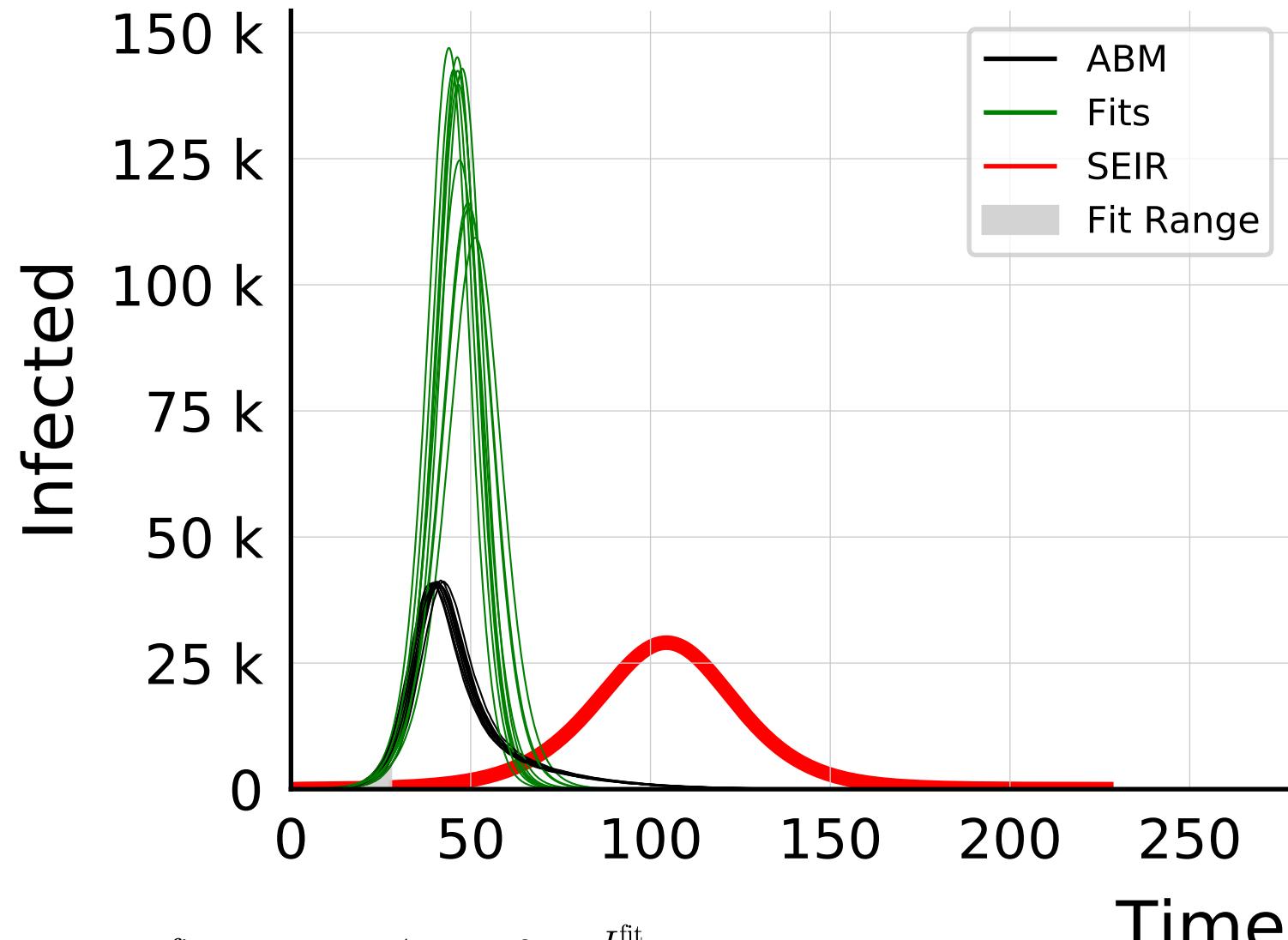


$$I_{\max}^{\text{fit}} = 12.9_{-0.6}^{+3} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.10$$

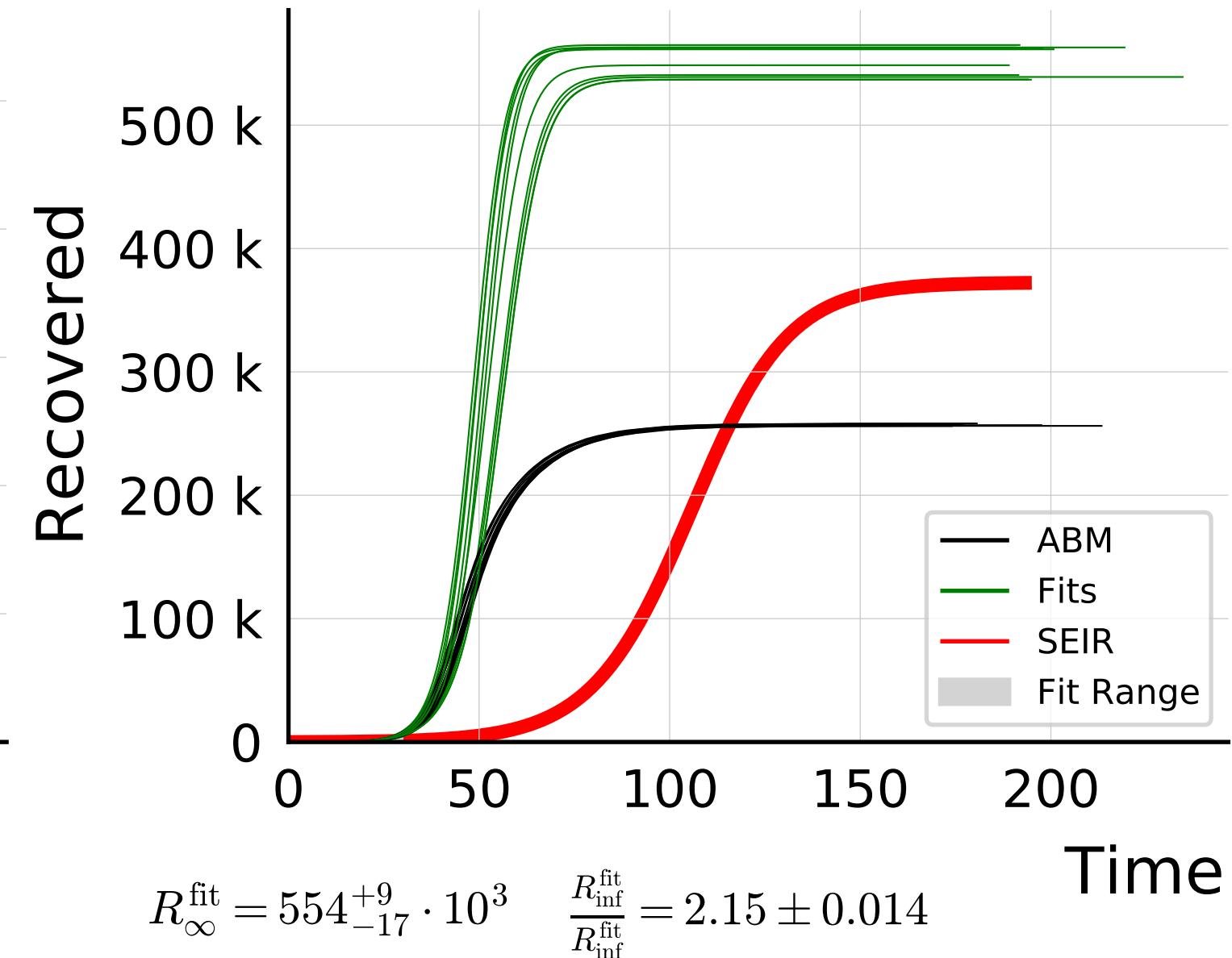
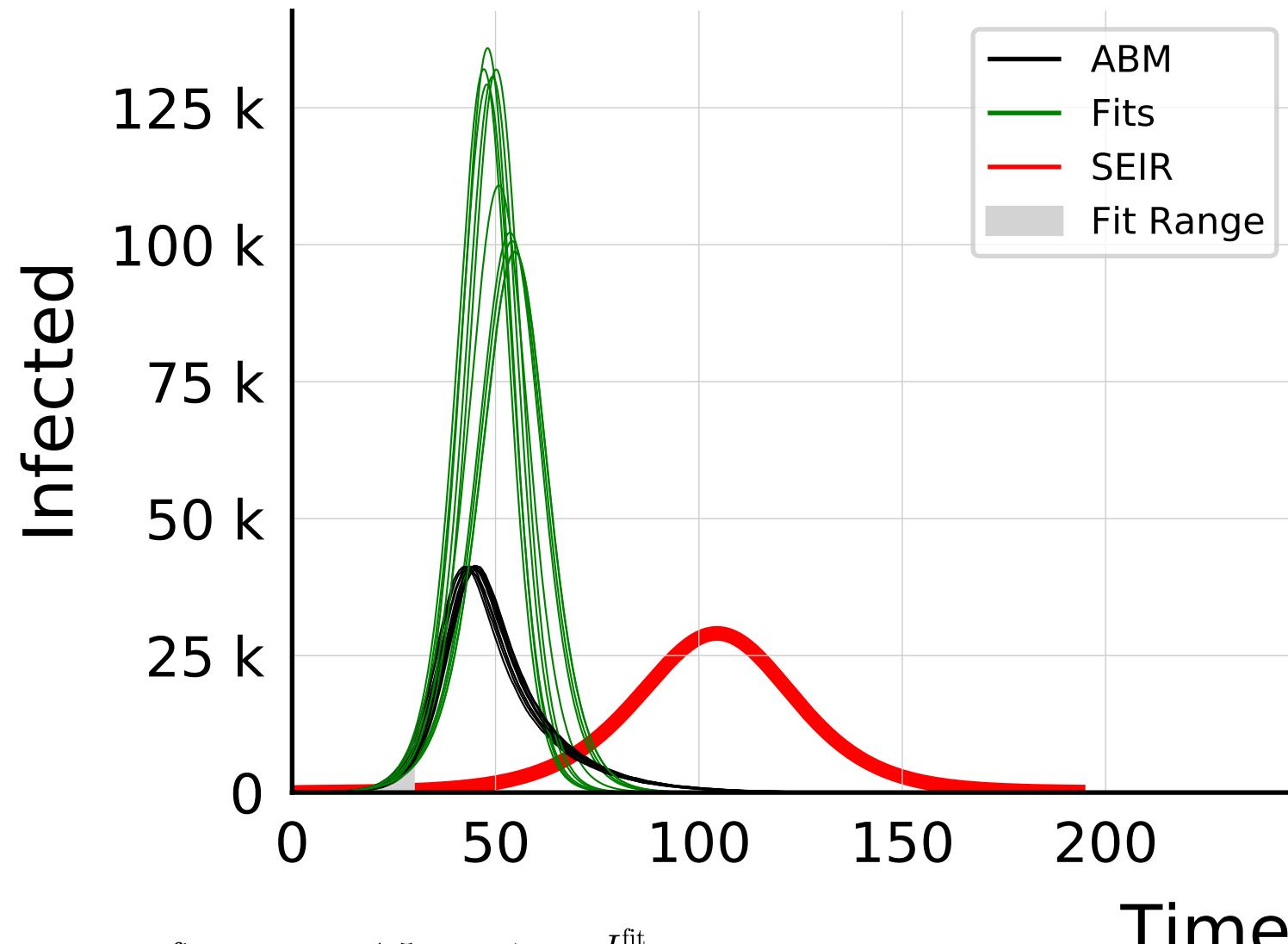


$$R_{\infty}^{\text{fit}} = 56.1_{-0.4}^{+1.1} \cdot 10^4 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.85 \pm 0.036$$

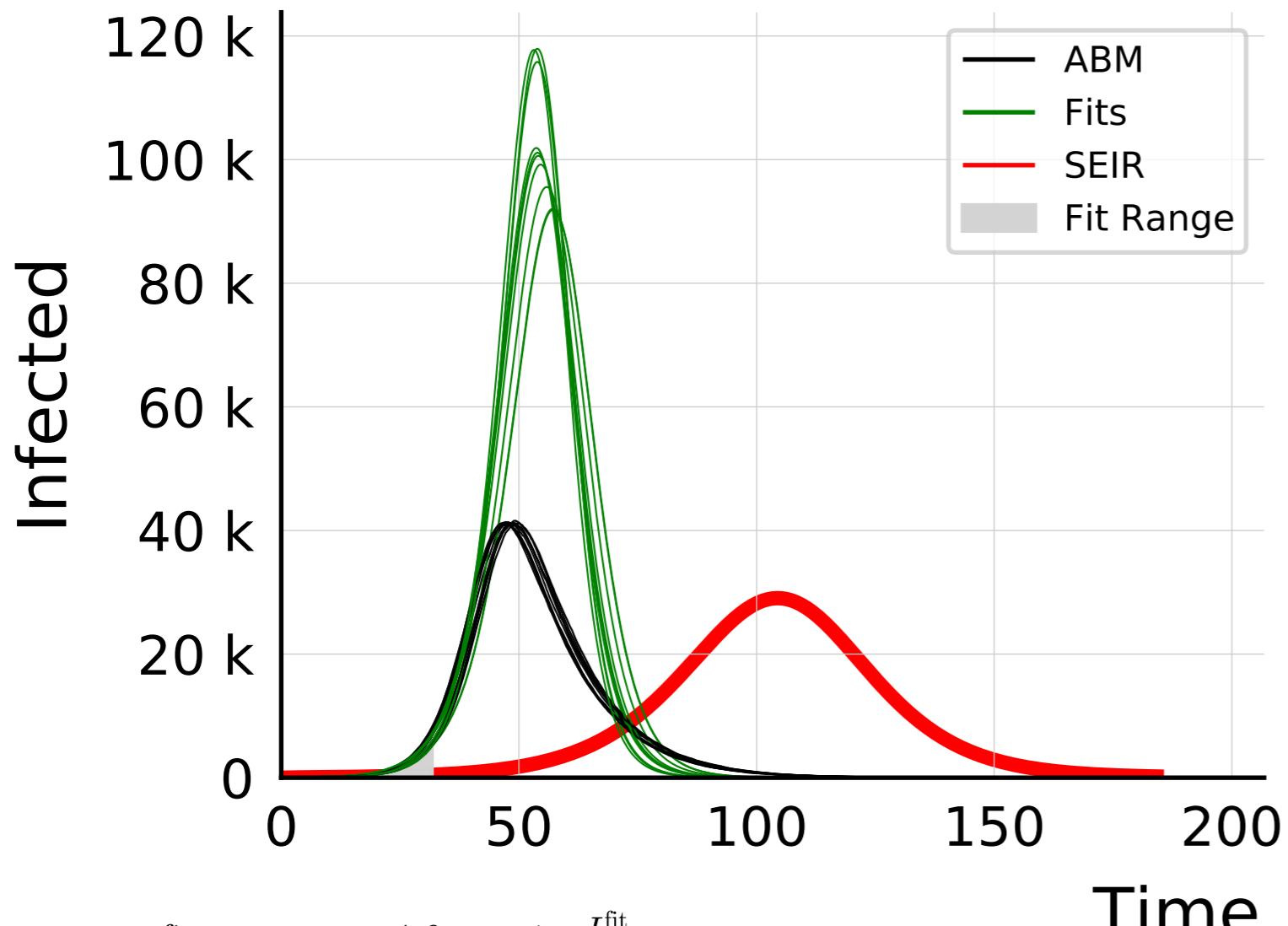
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.1$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



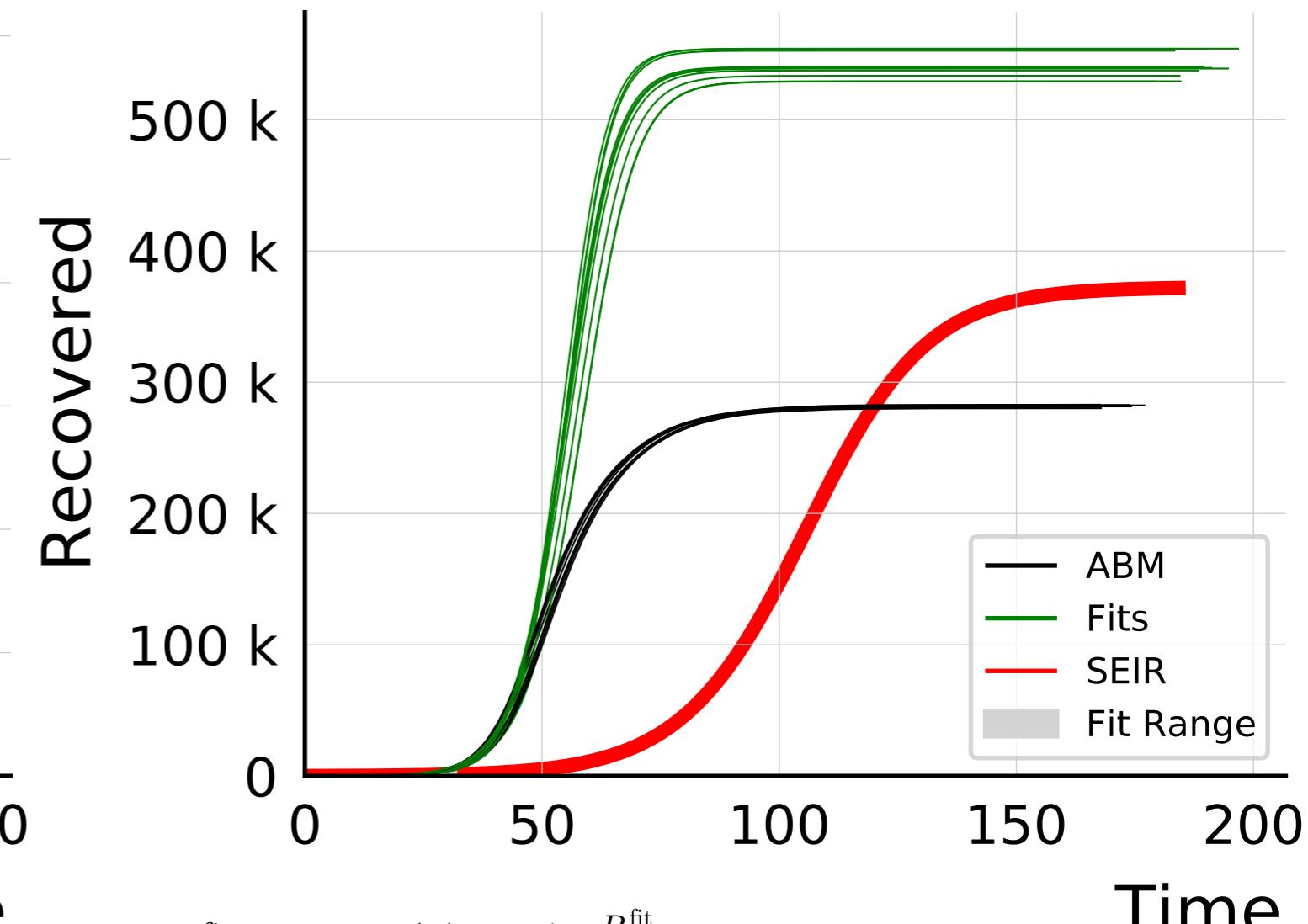
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.2$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.3$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

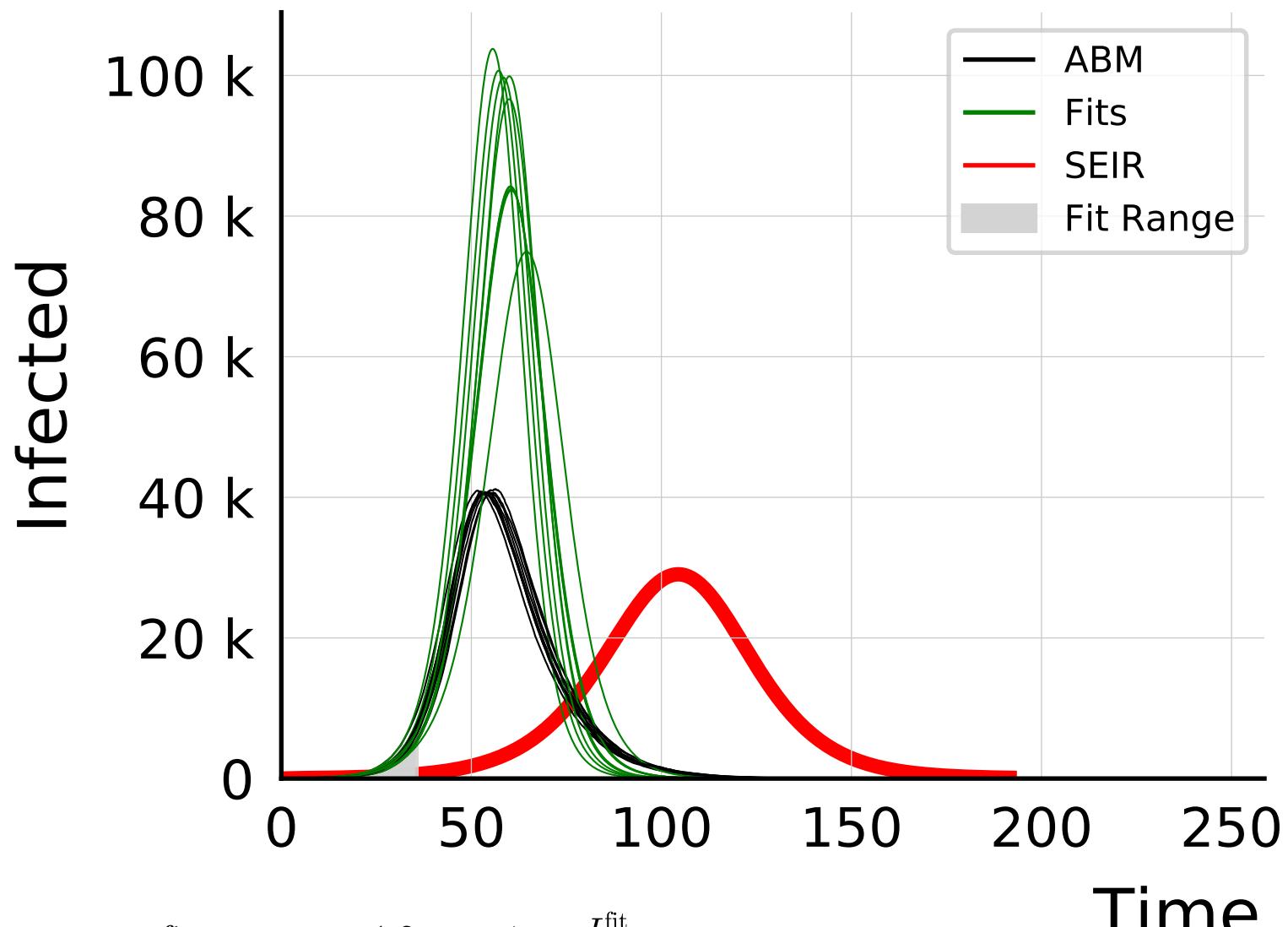


$$I_{\max}^{\text{fit}} = 10.1_{-0.9}^{+1.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.51 \pm 0.073$$

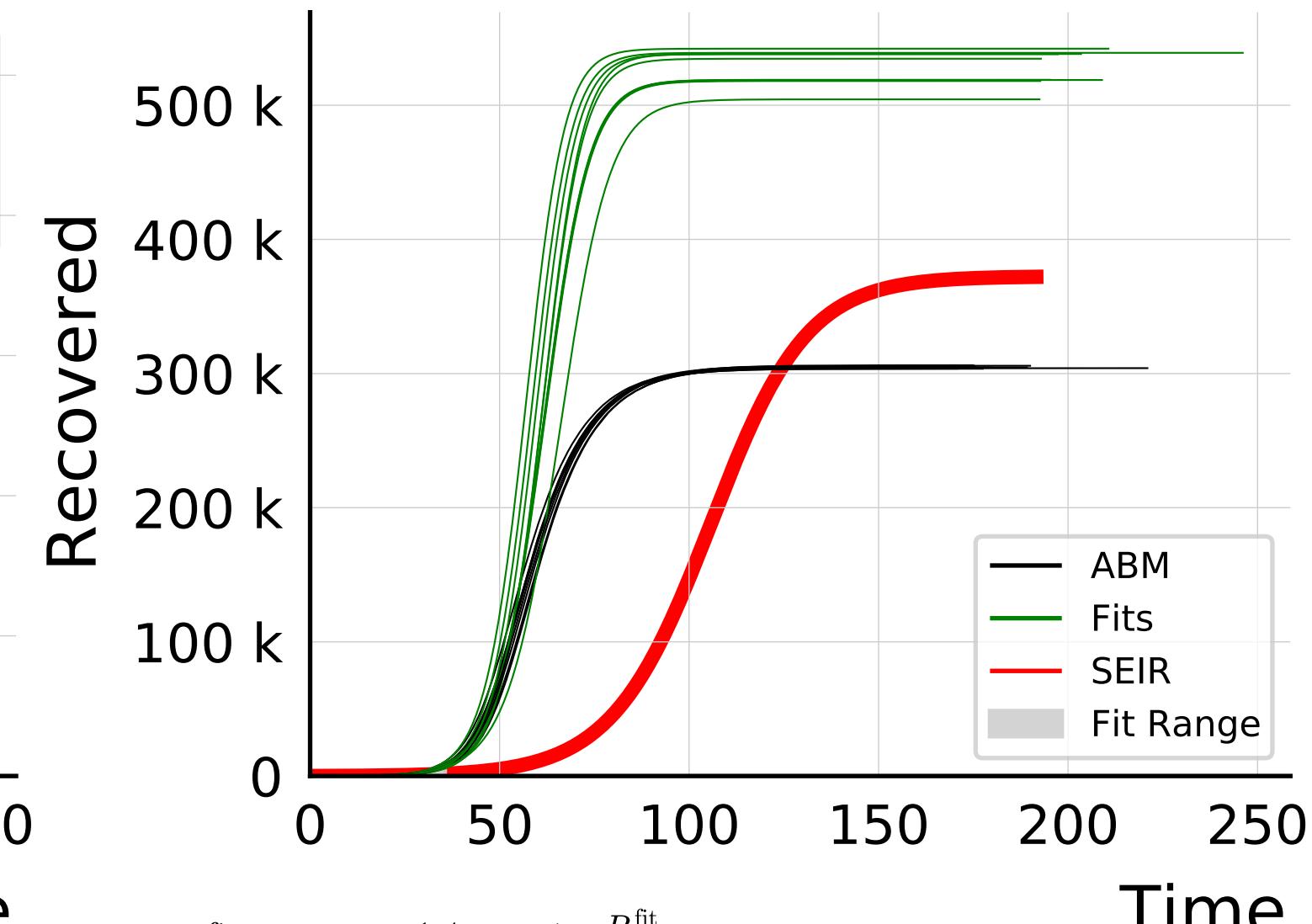


$$R_{\infty}^{\text{fit}} = 53.9_{-1}^{+1.4} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.919 \pm 0.0099$$

$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.4$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

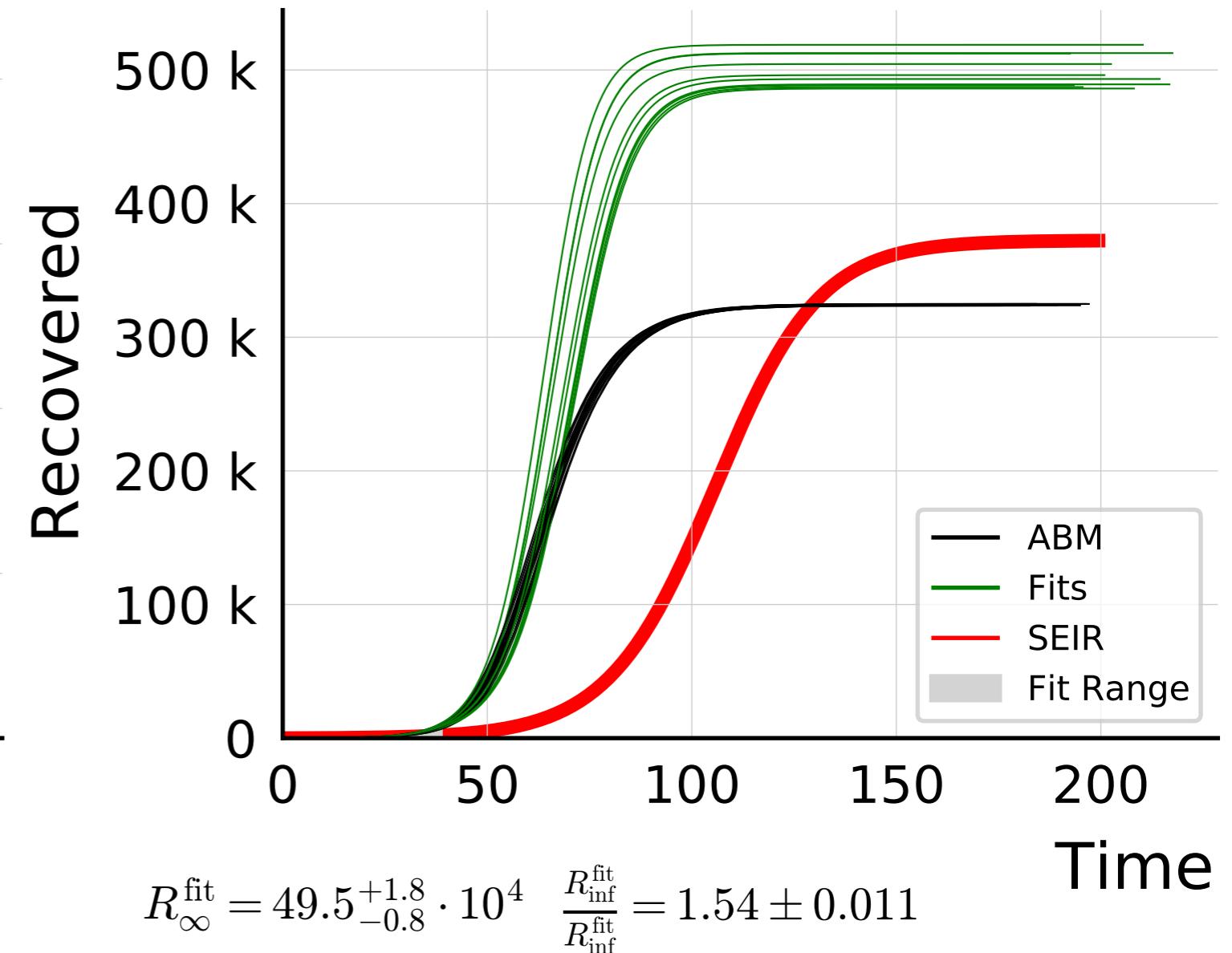
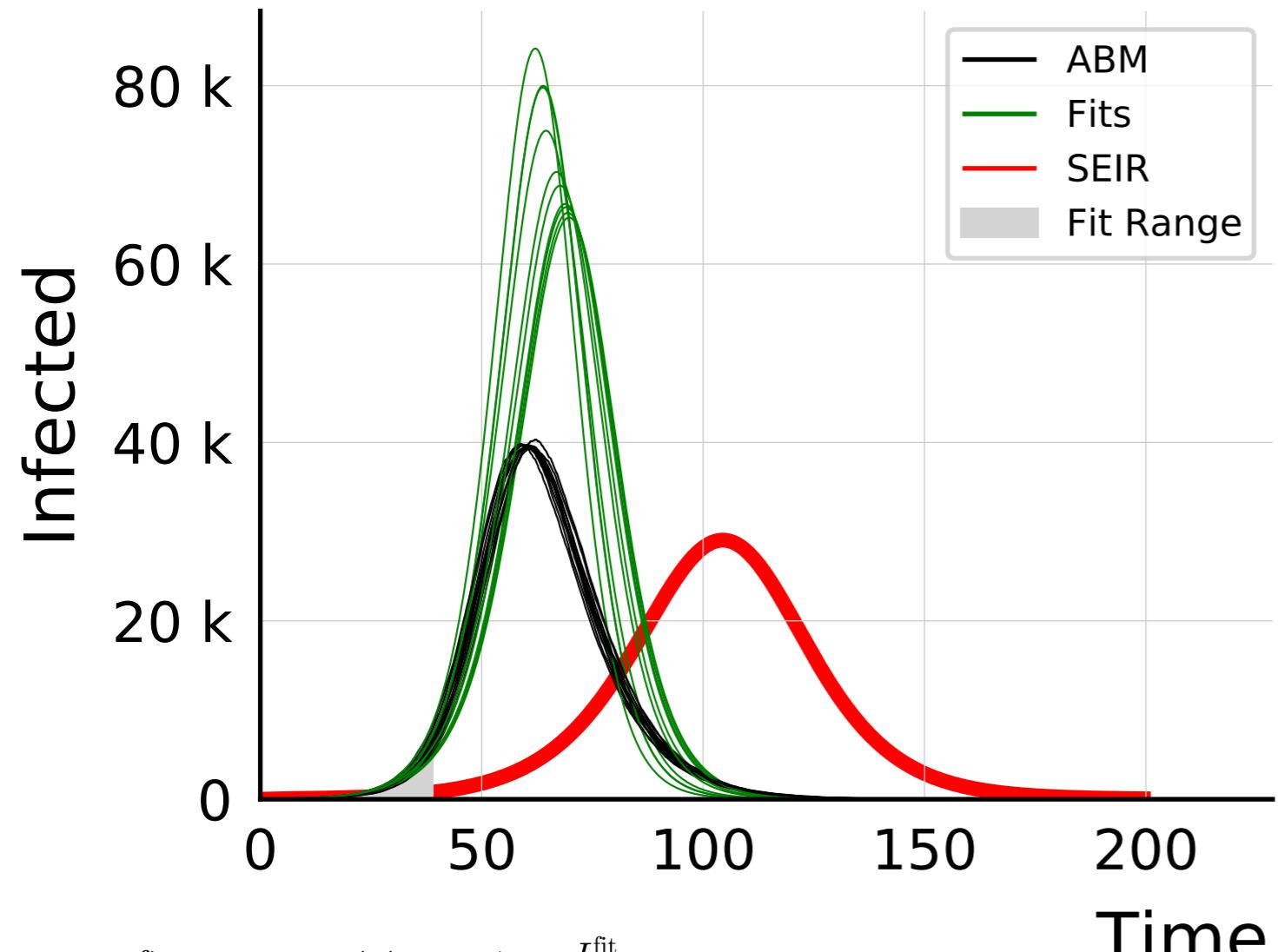


$$I_{\max}^{\text{fit}} = 8.9_{-0.6}^{+1.2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.23 \pm 0.072$$

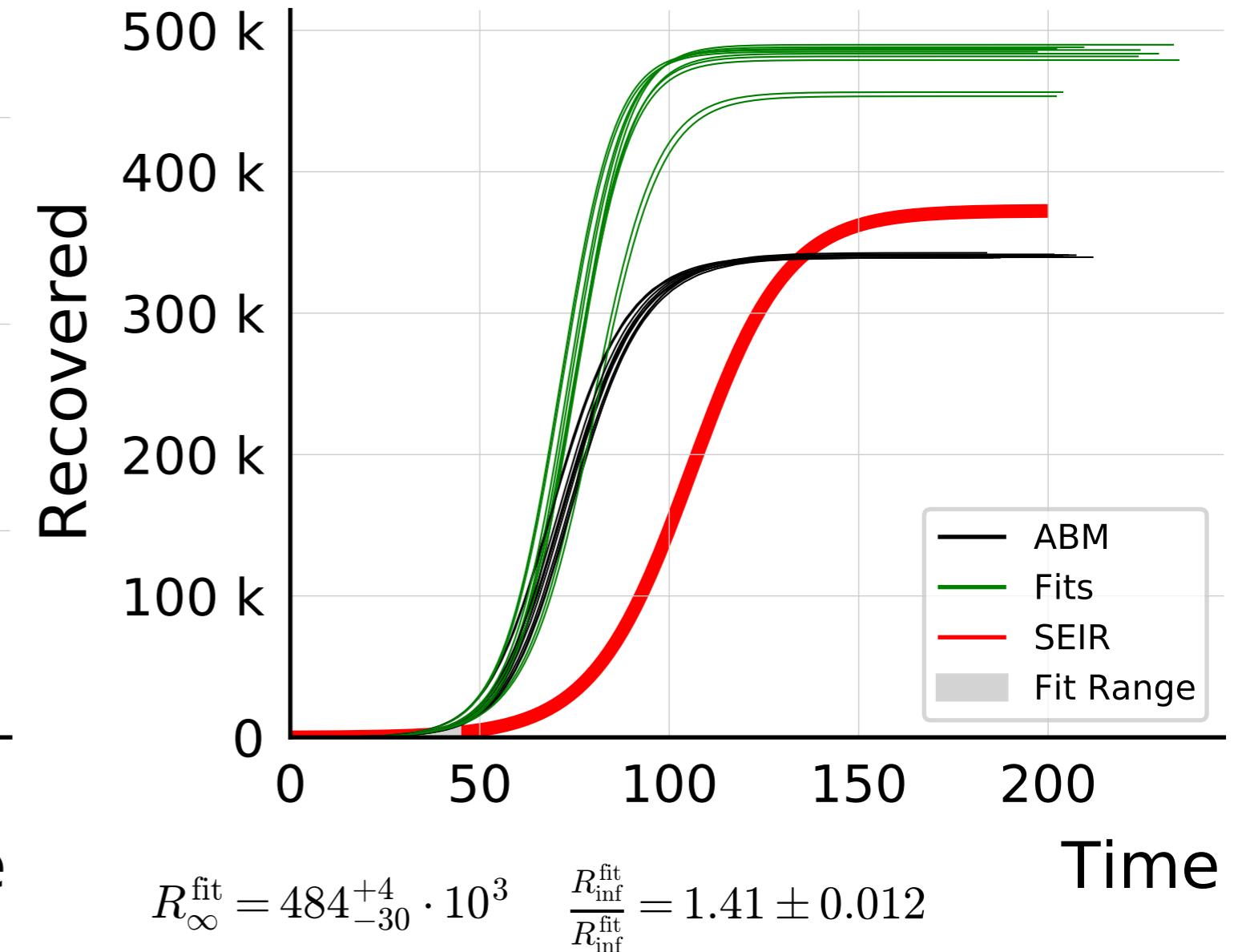
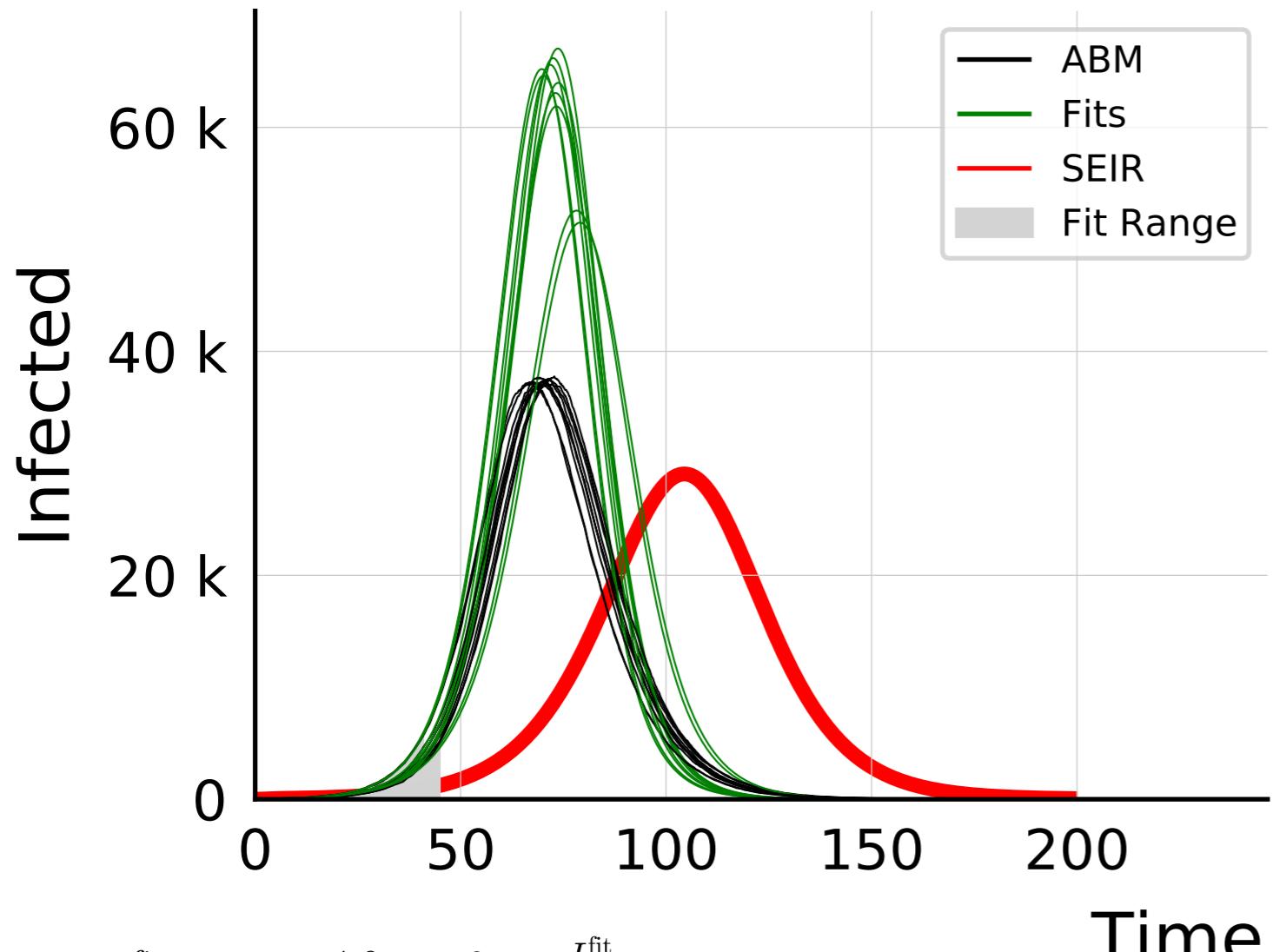


$$R_{\infty}^{\text{fit}} = 52.5_{-0.7}^{+1.4} \cdot 10^4 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.73 \pm 0.013$$

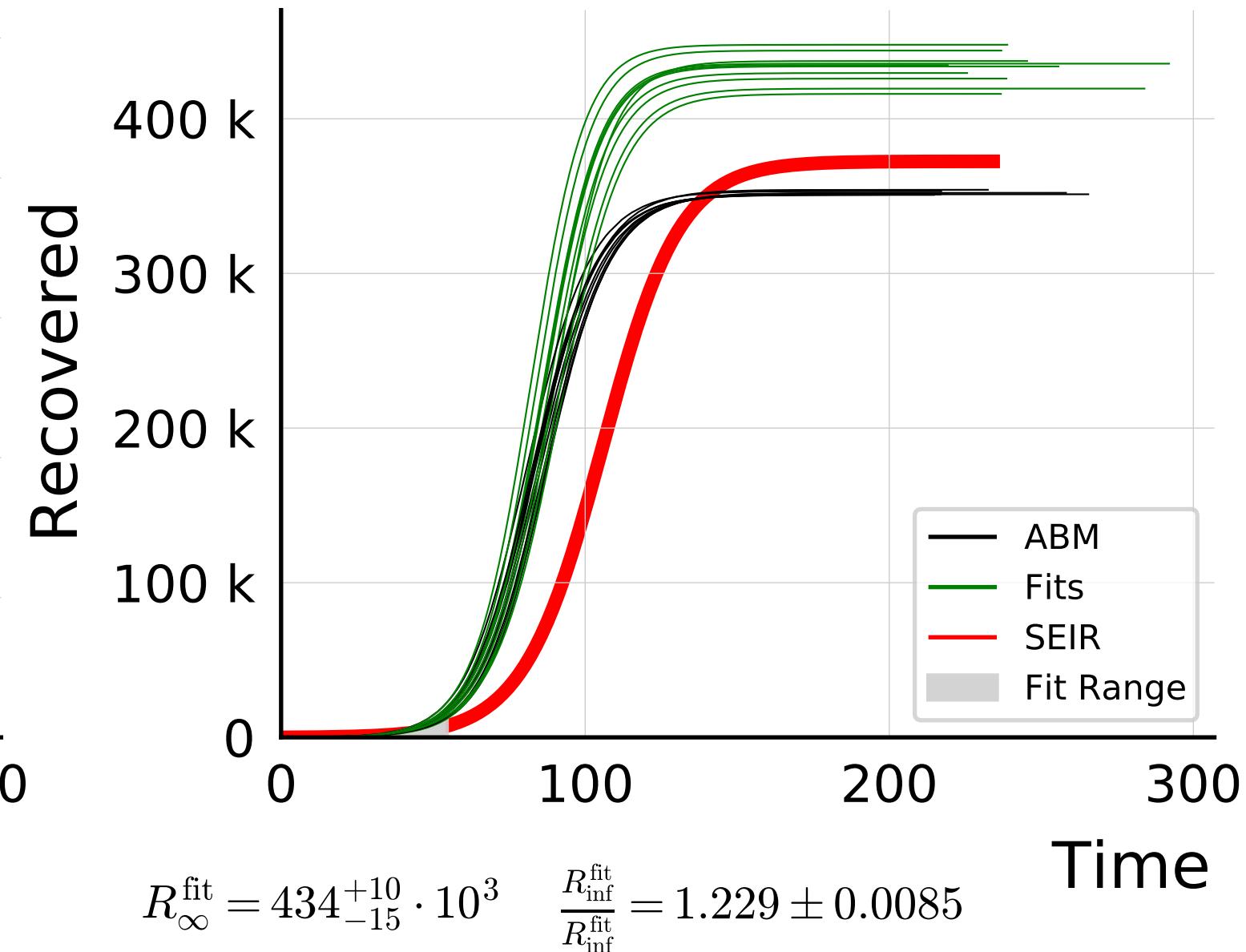
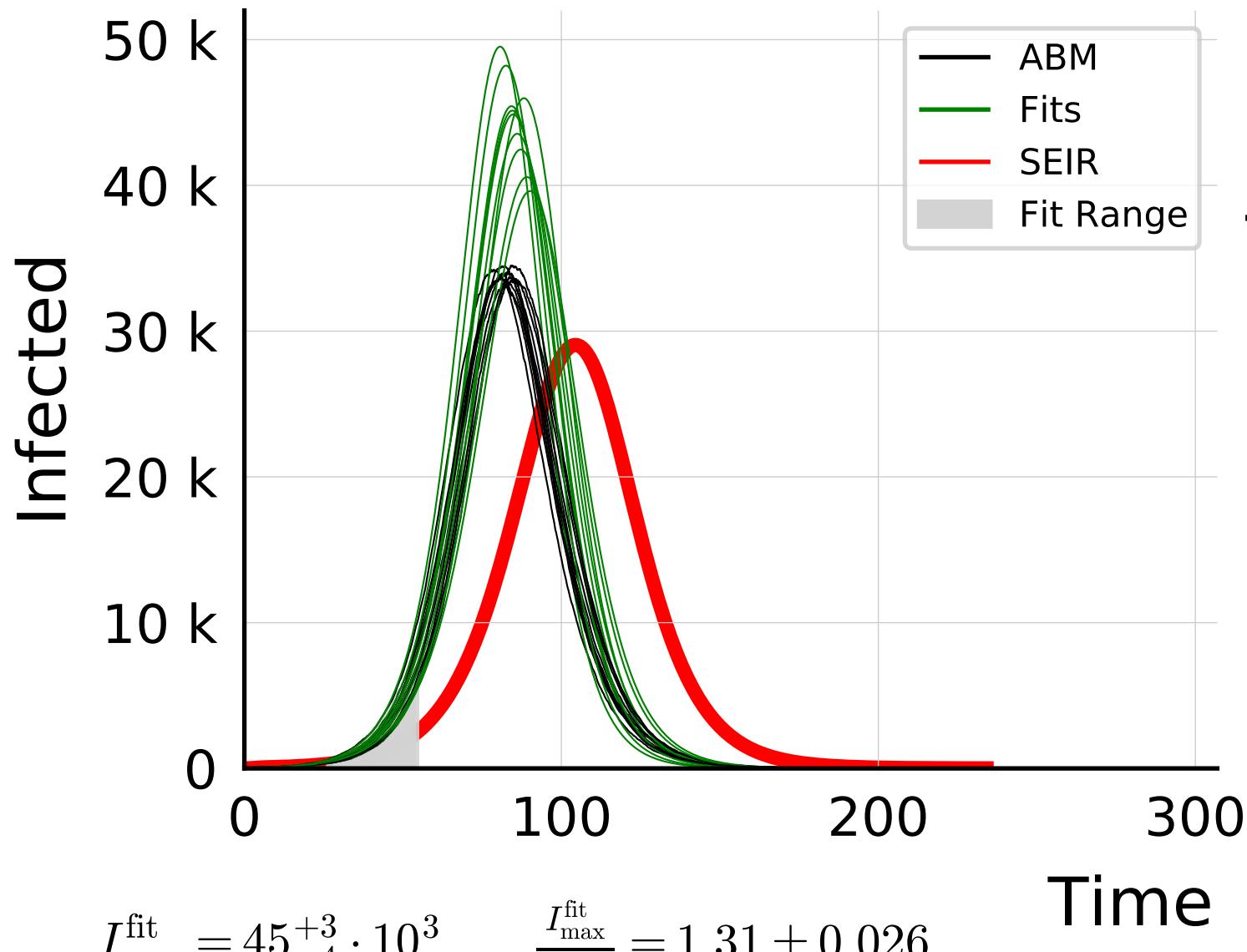
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.5$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



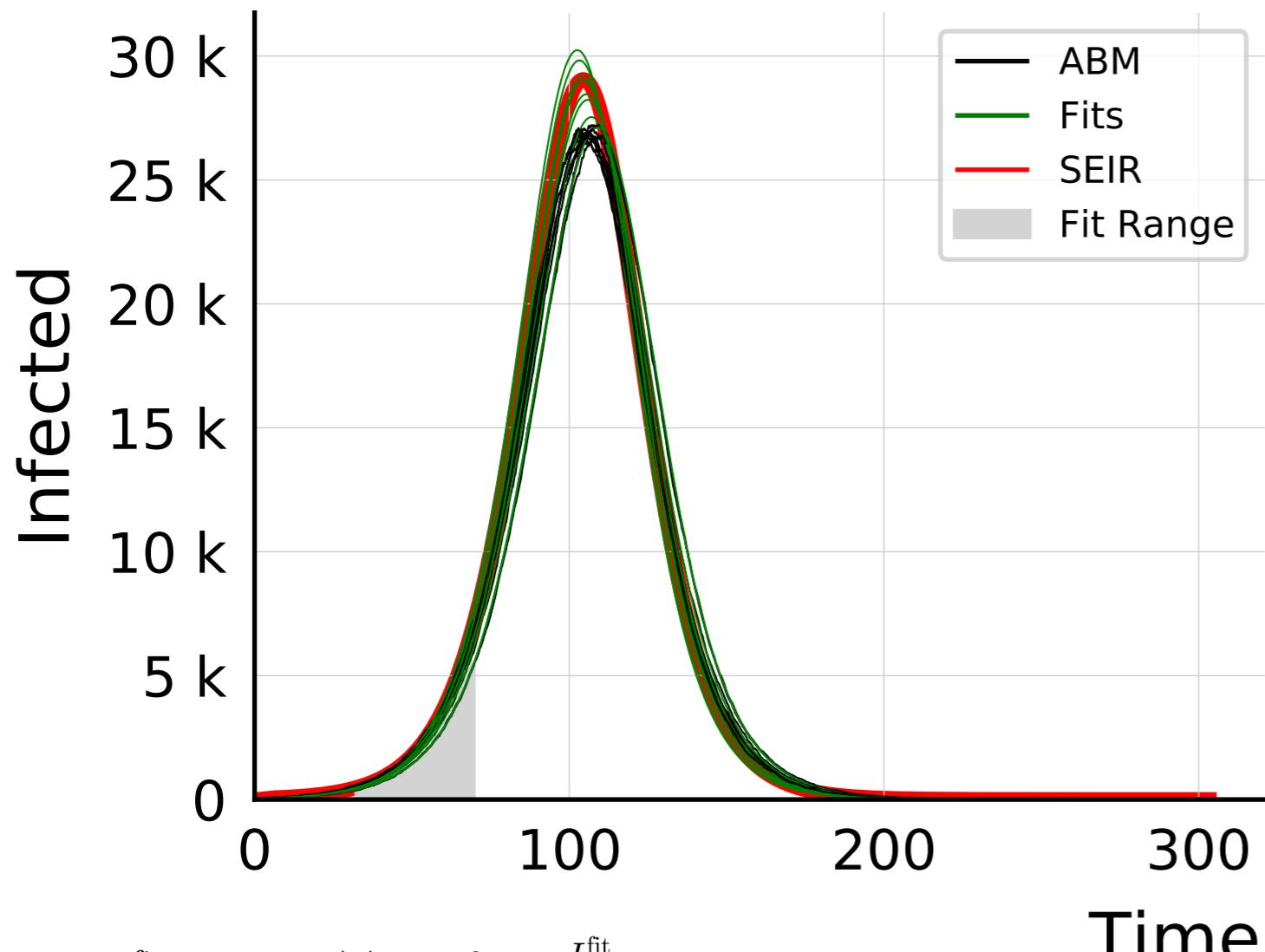
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.6$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



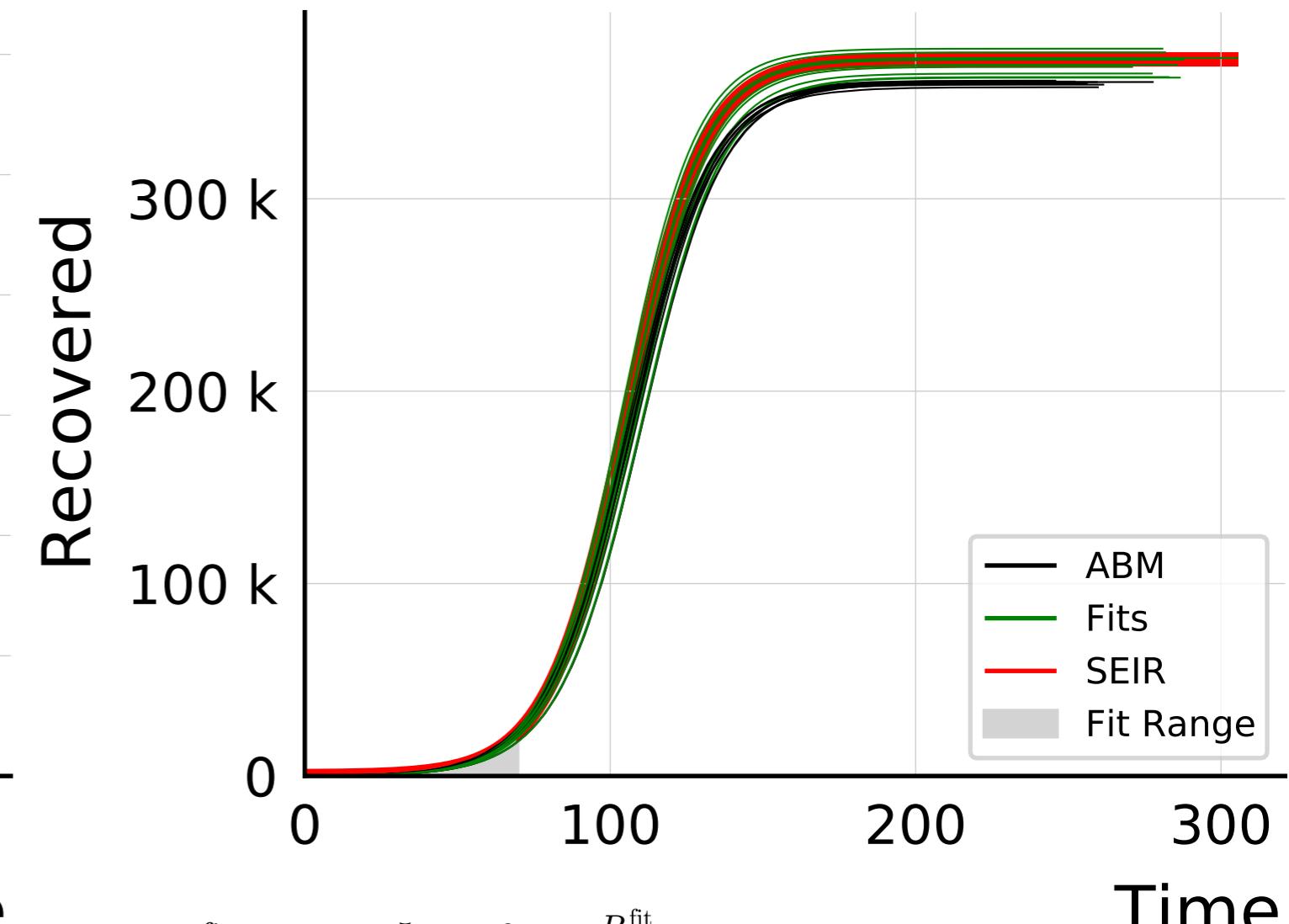
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.7$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.95$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

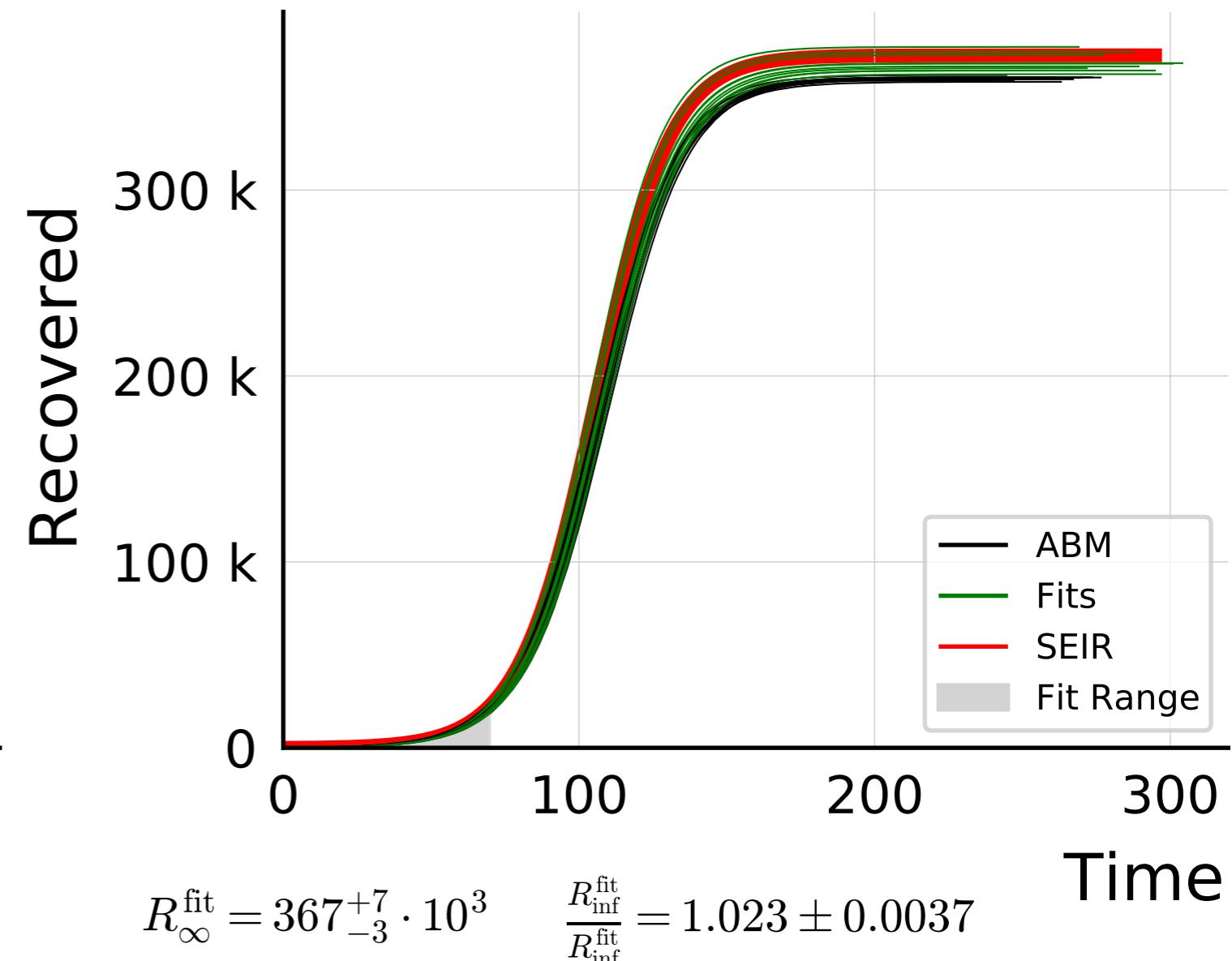
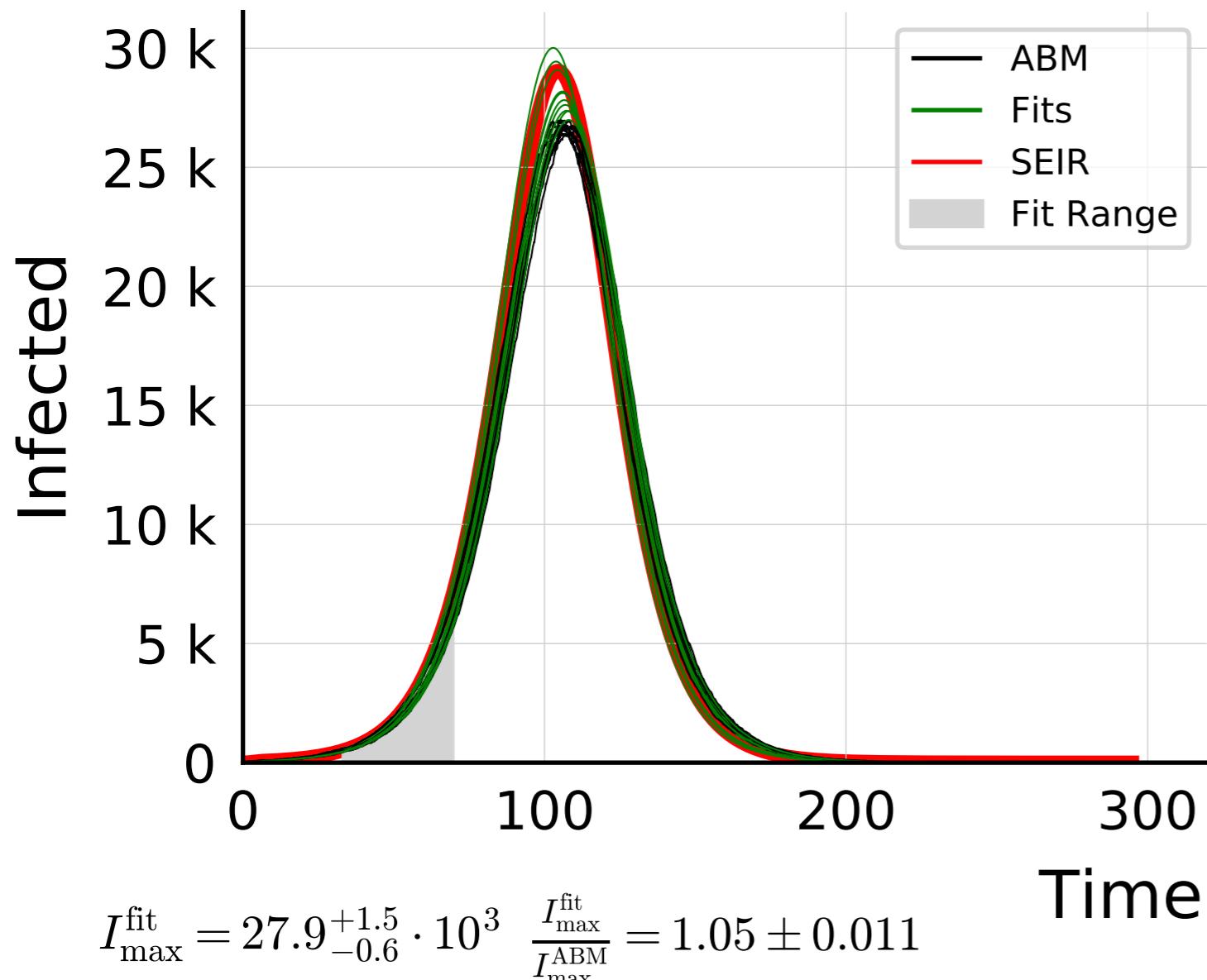


$$I_{\max}^{\text{fit}} = 29_{-1.3}^{+1.1} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.06 \pm 0.013$$

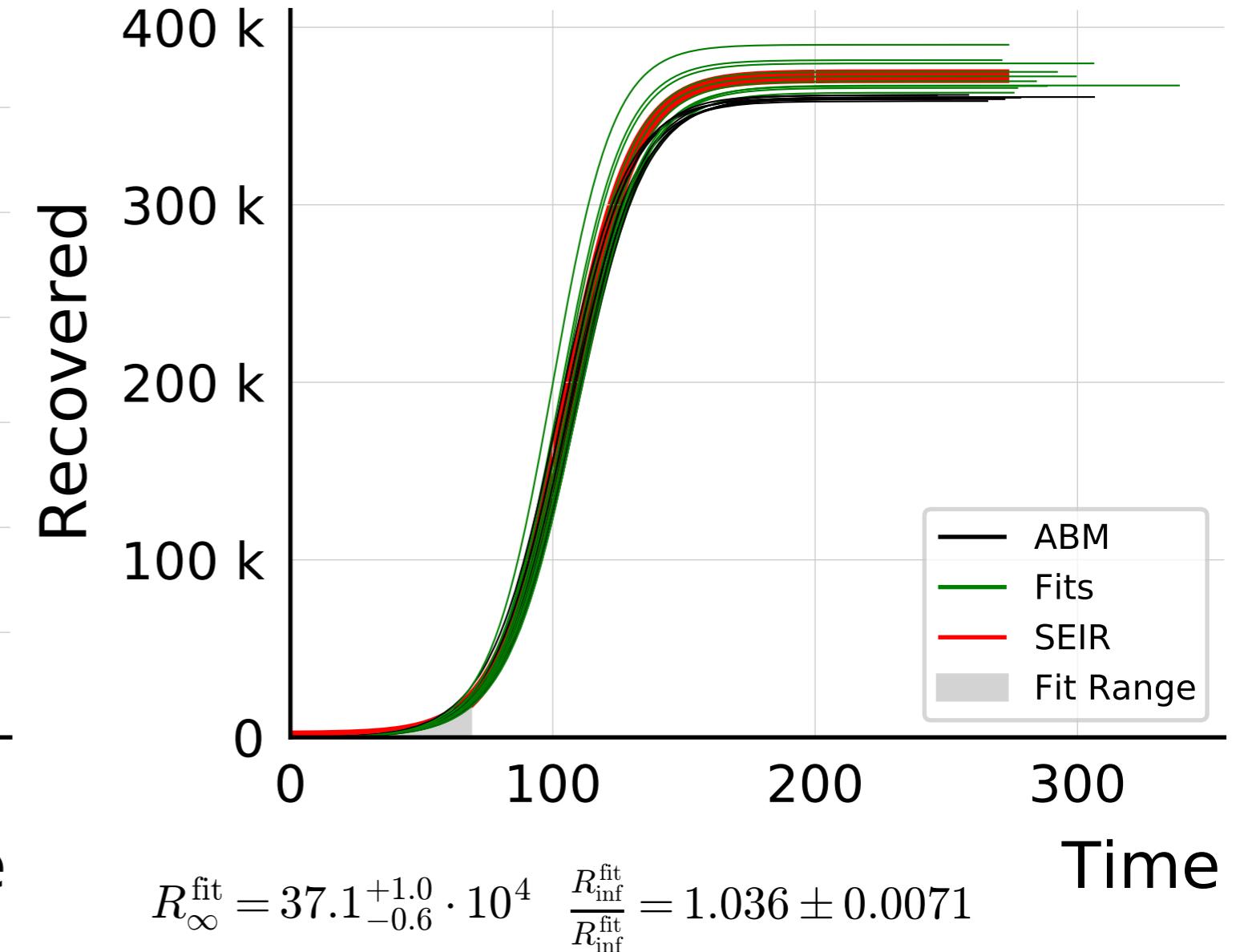
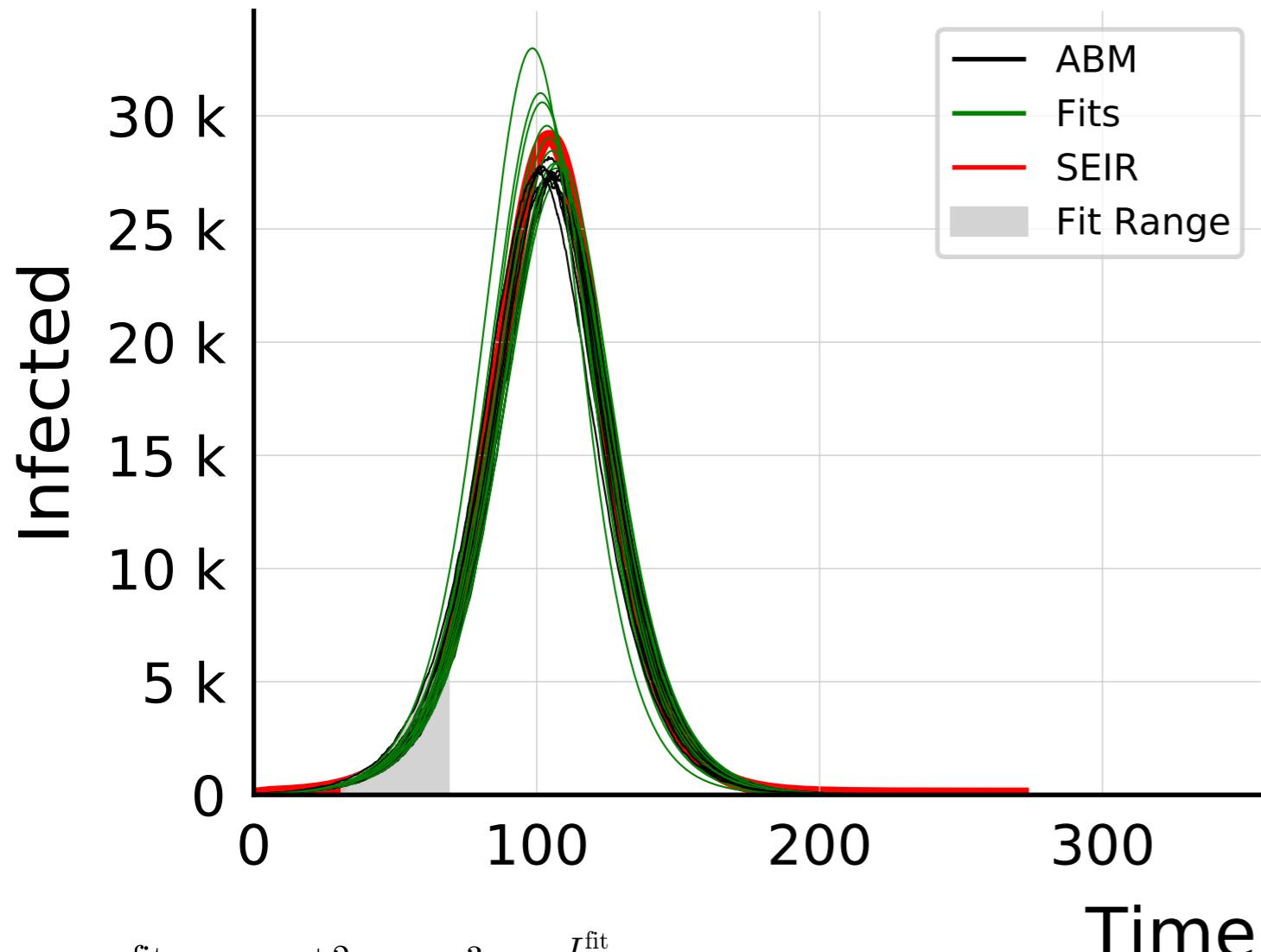


$$R_{\infty}^{\text{fit}} = 371_{-7}^{+5} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.028 \pm 0.0043$$

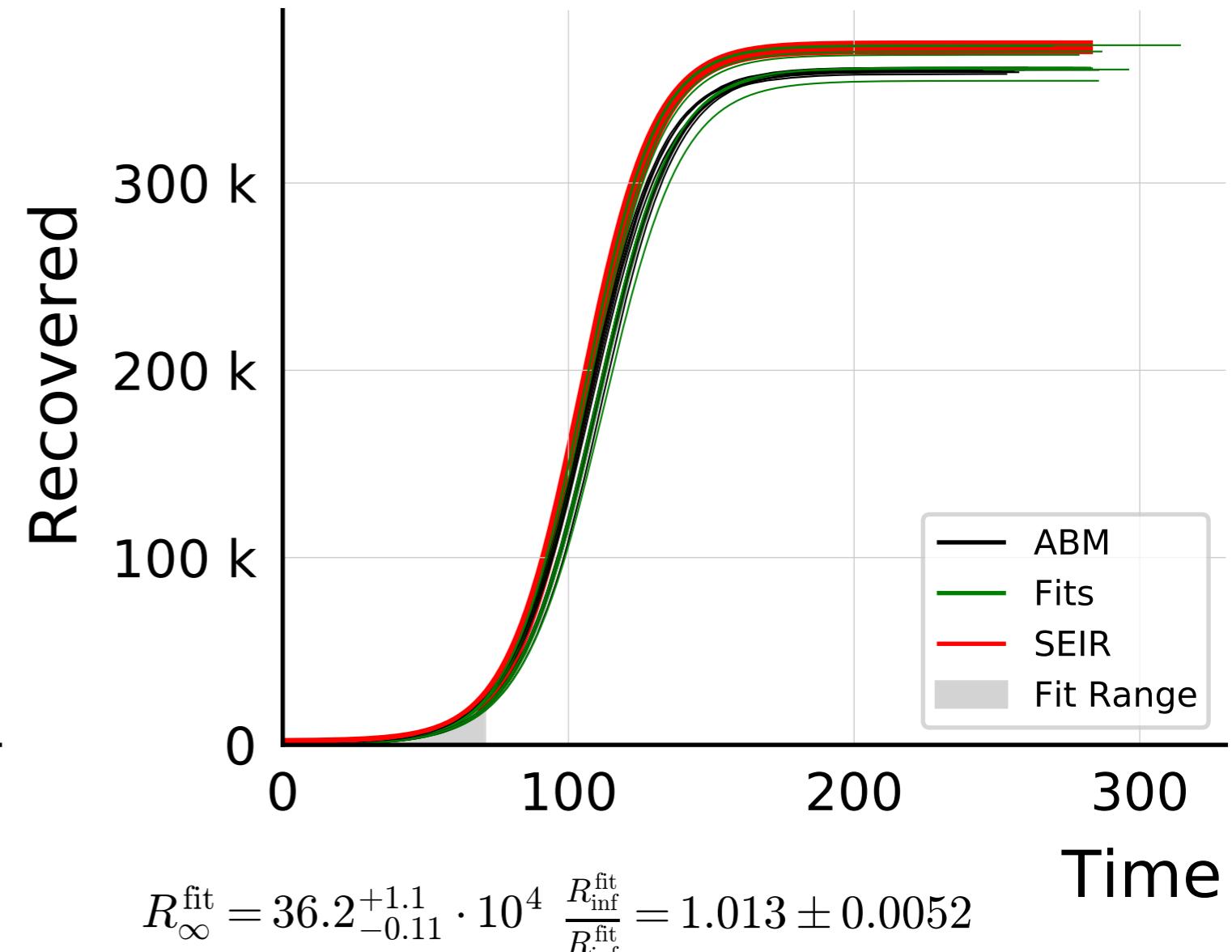
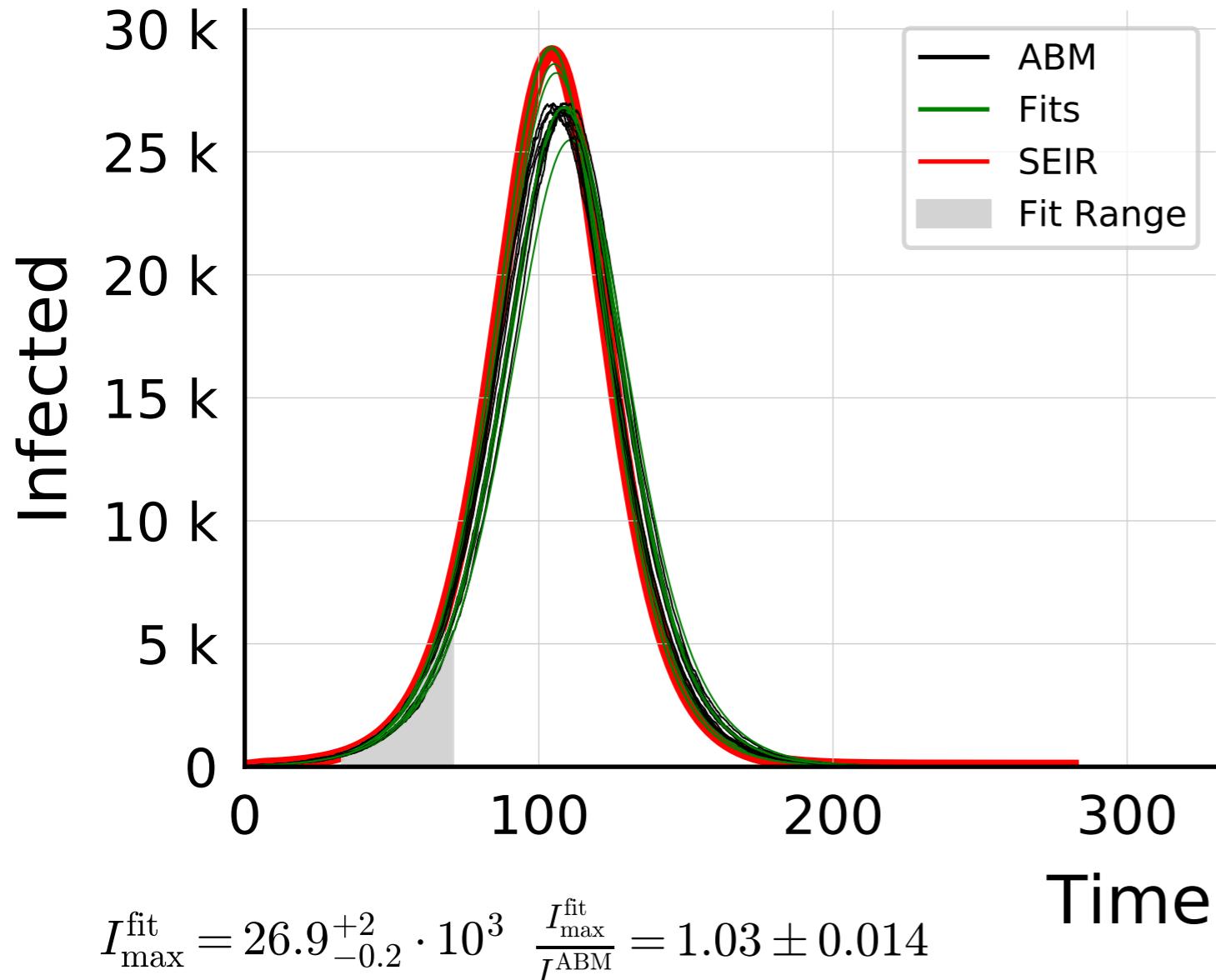
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.99$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



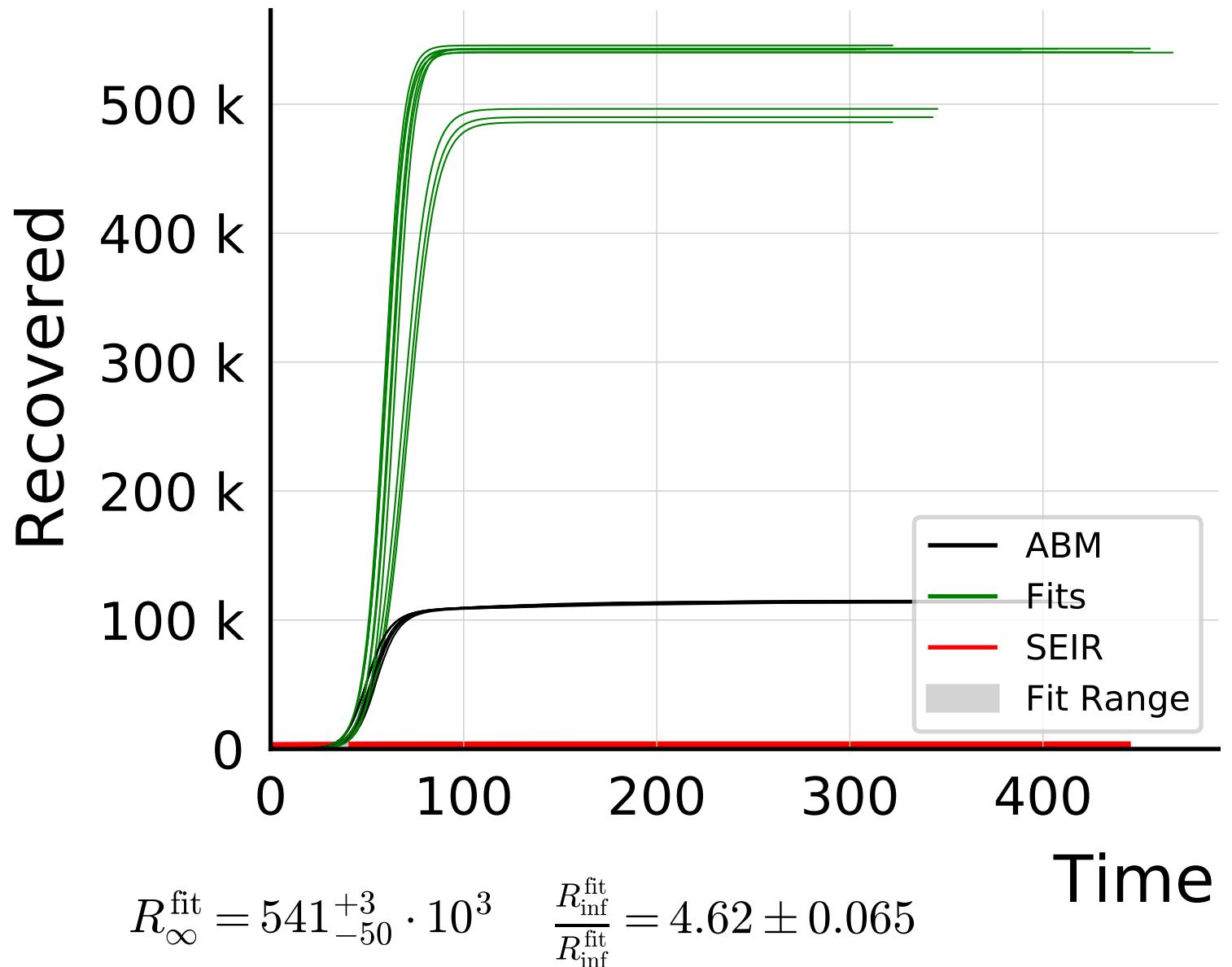
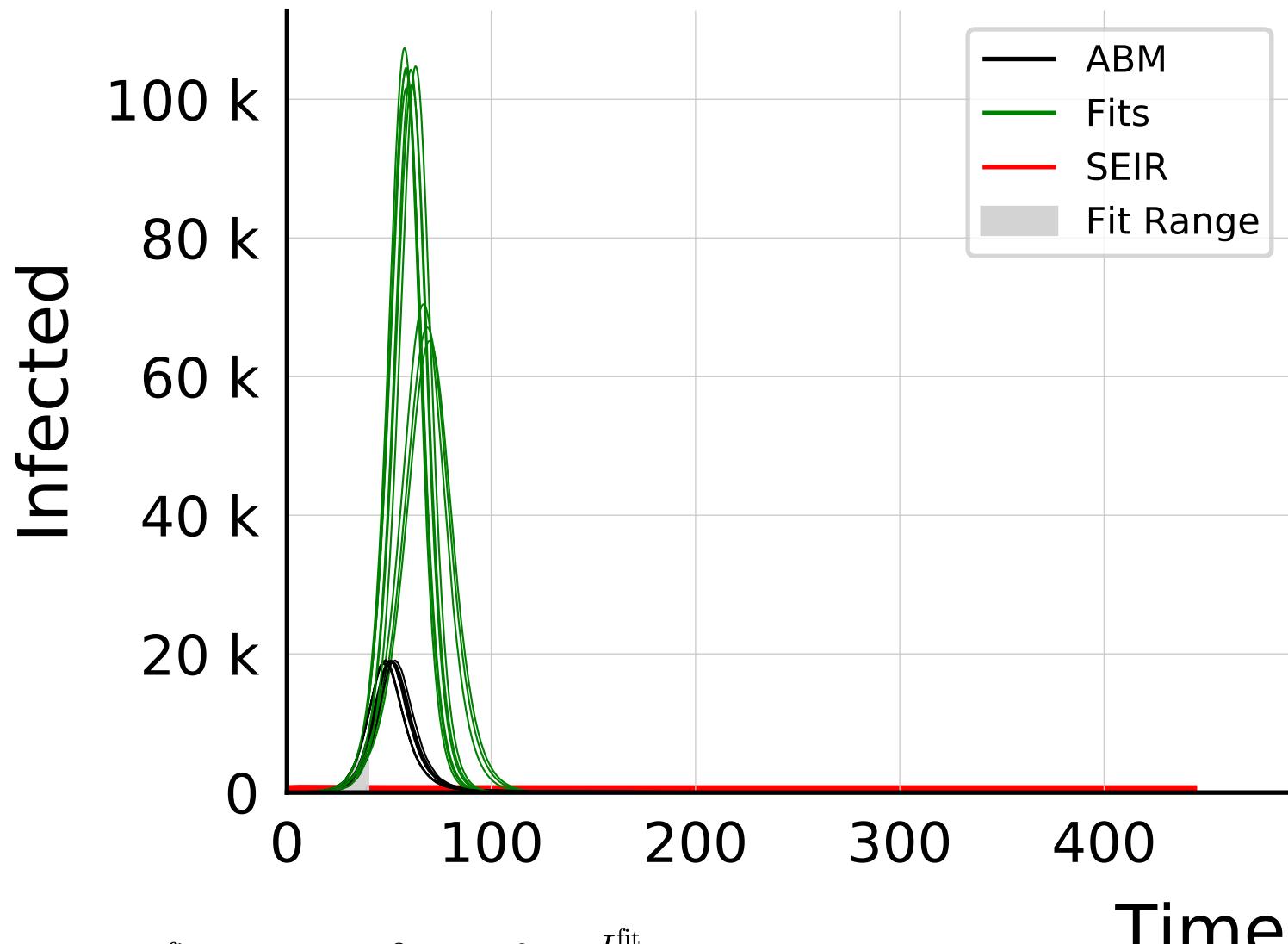
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 0.9$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



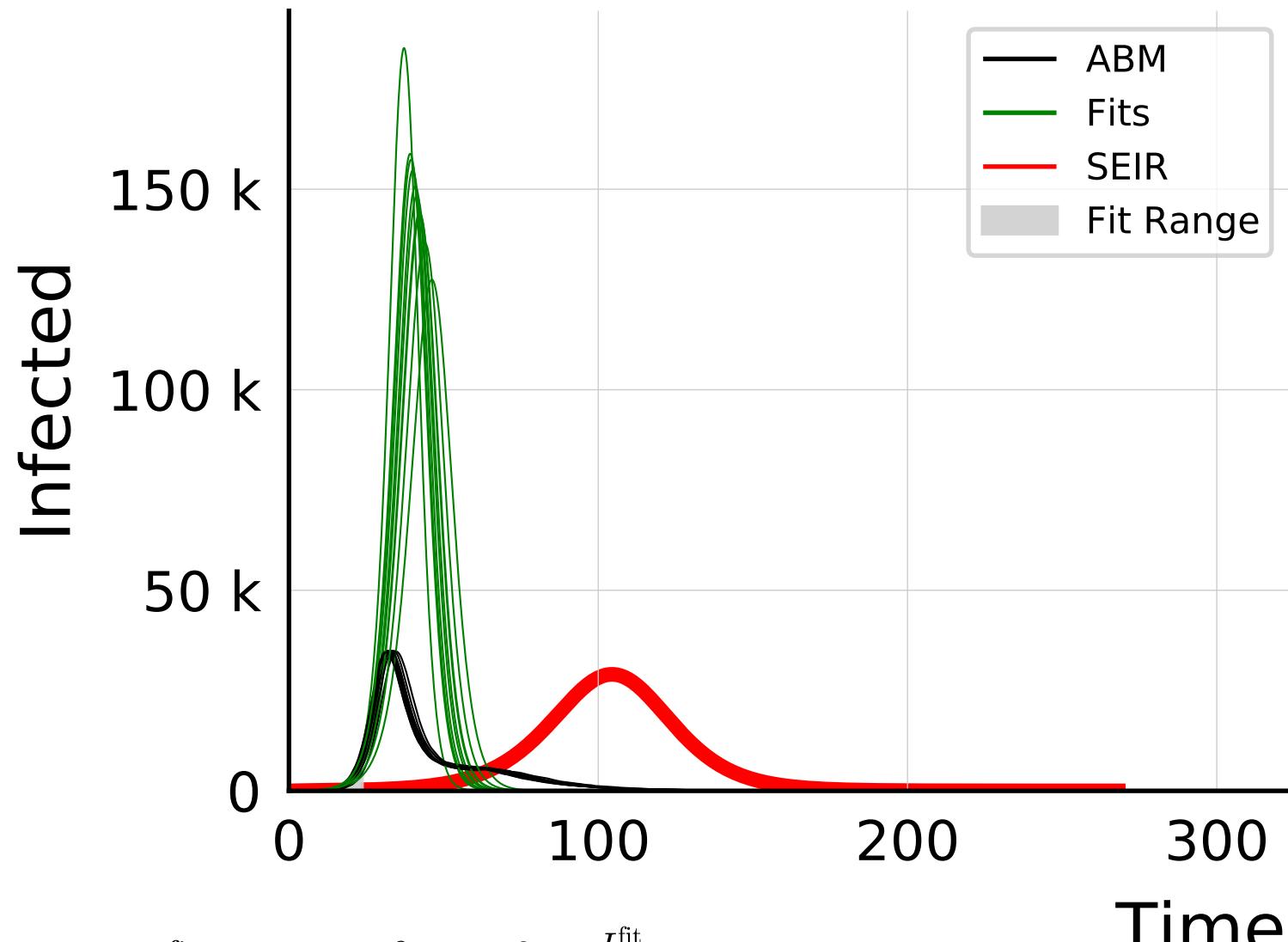
$N_{\text{tot}} = 580K$, $\rho = 0.1$, $\epsilon_\rho = 1.0$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



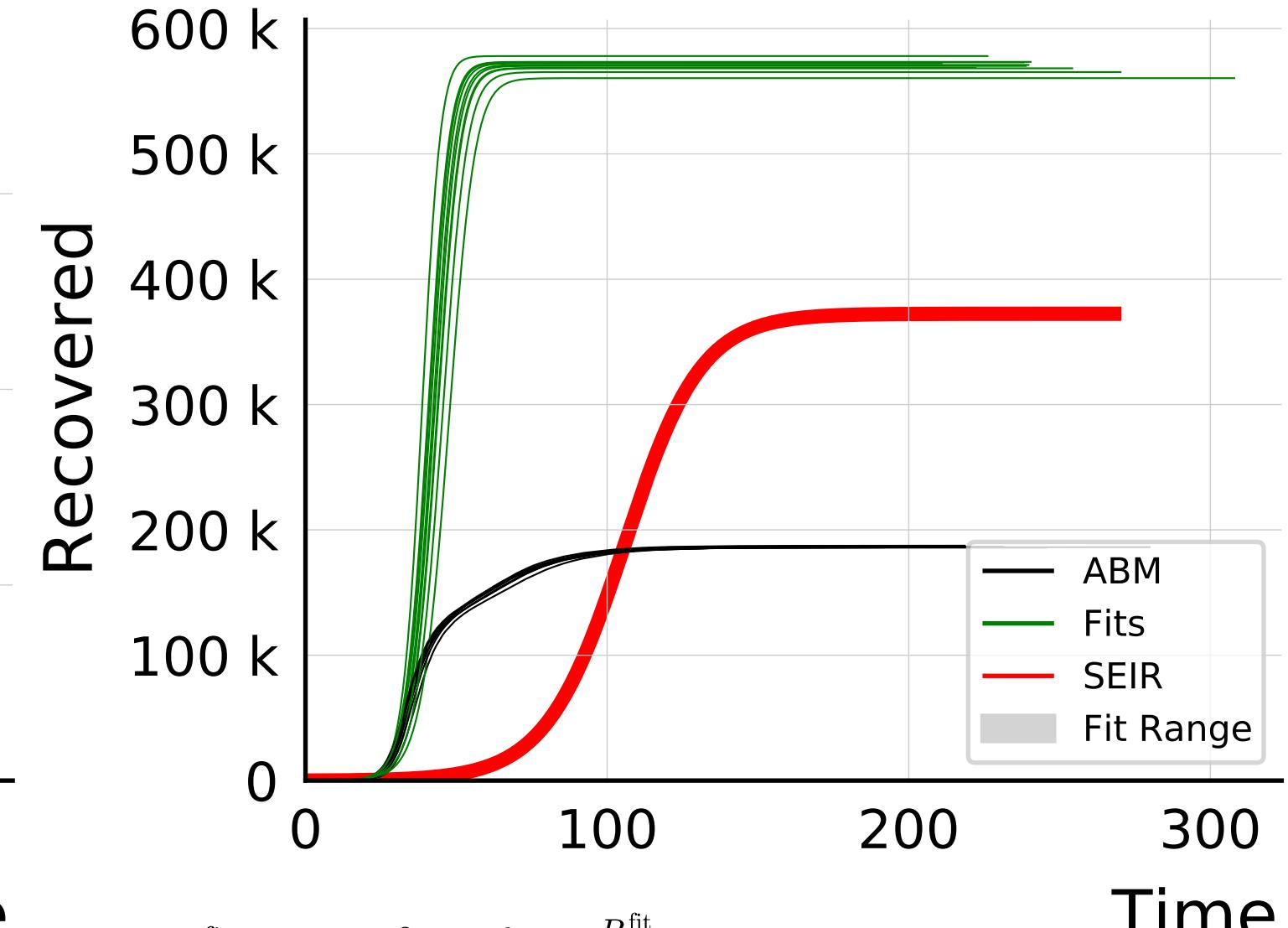
$N_{\text{tot}} = 580K$, $\rho = 0.25$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.25$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

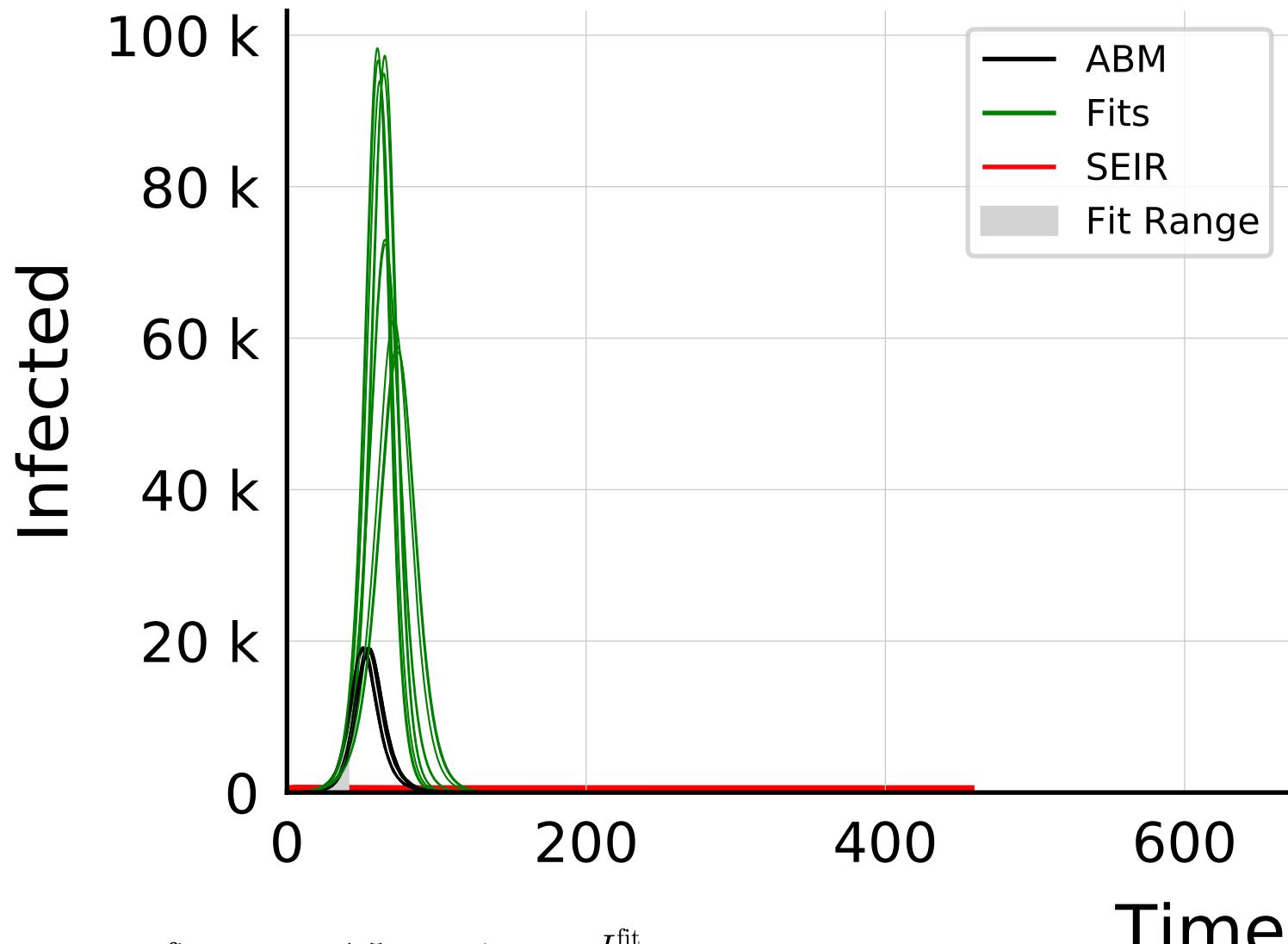


$$I_{\text{max}}^{\text{fit}} = 150^{+9}_{-13} \cdot 10^3 \quad \frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 4.3 \pm 0.13$$



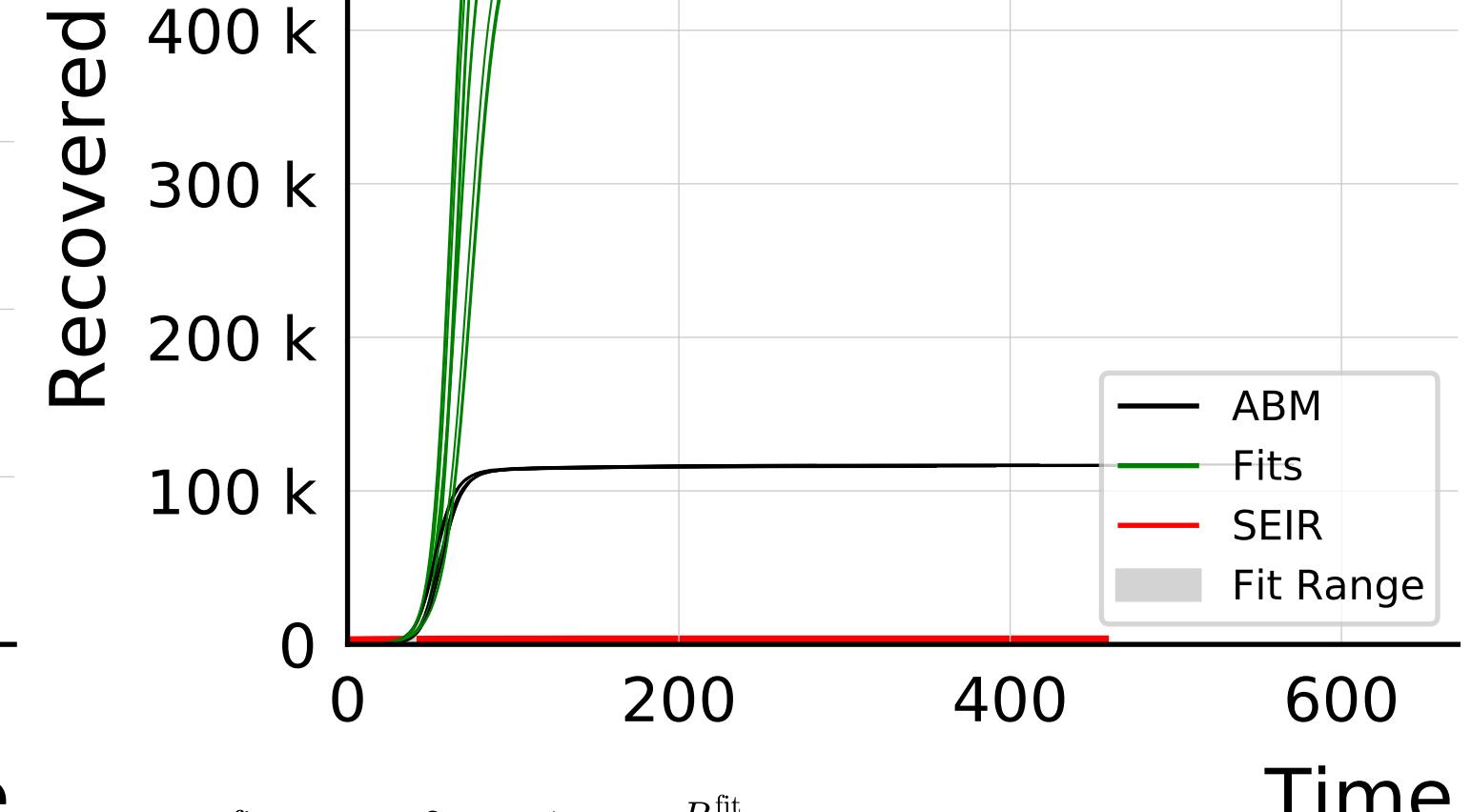
$$R_{\infty}^{\text{fit}} = 571^{+3}_{-5} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}^{\text{SEIR}}} = 3.059 \pm 0.0074$$

$N_{\text{tot}} = 580K$, $\rho = 0.2$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 8_{-2}^{+1.5} \cdot 10^4$$

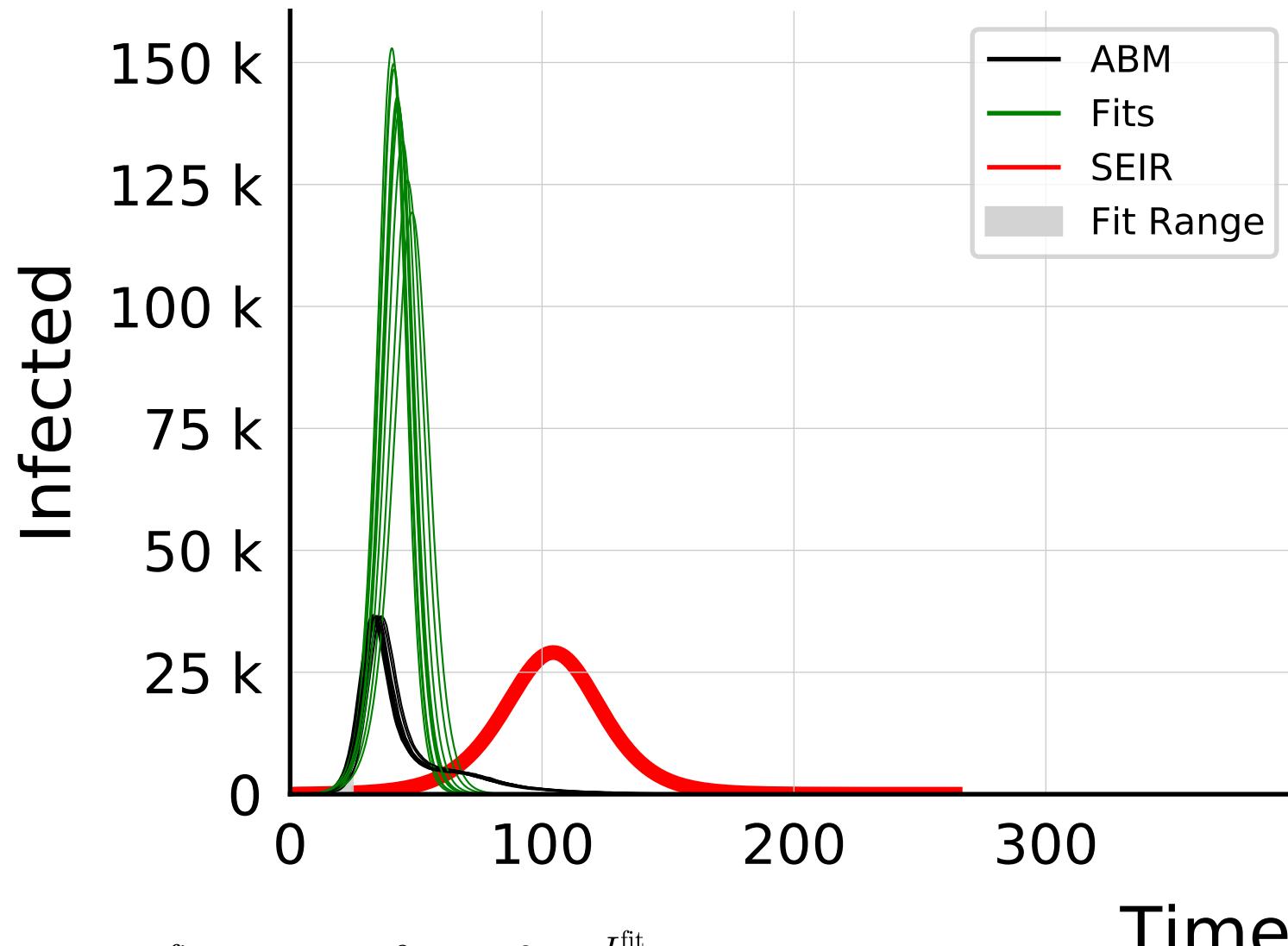
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.2 \pm 0.27$$



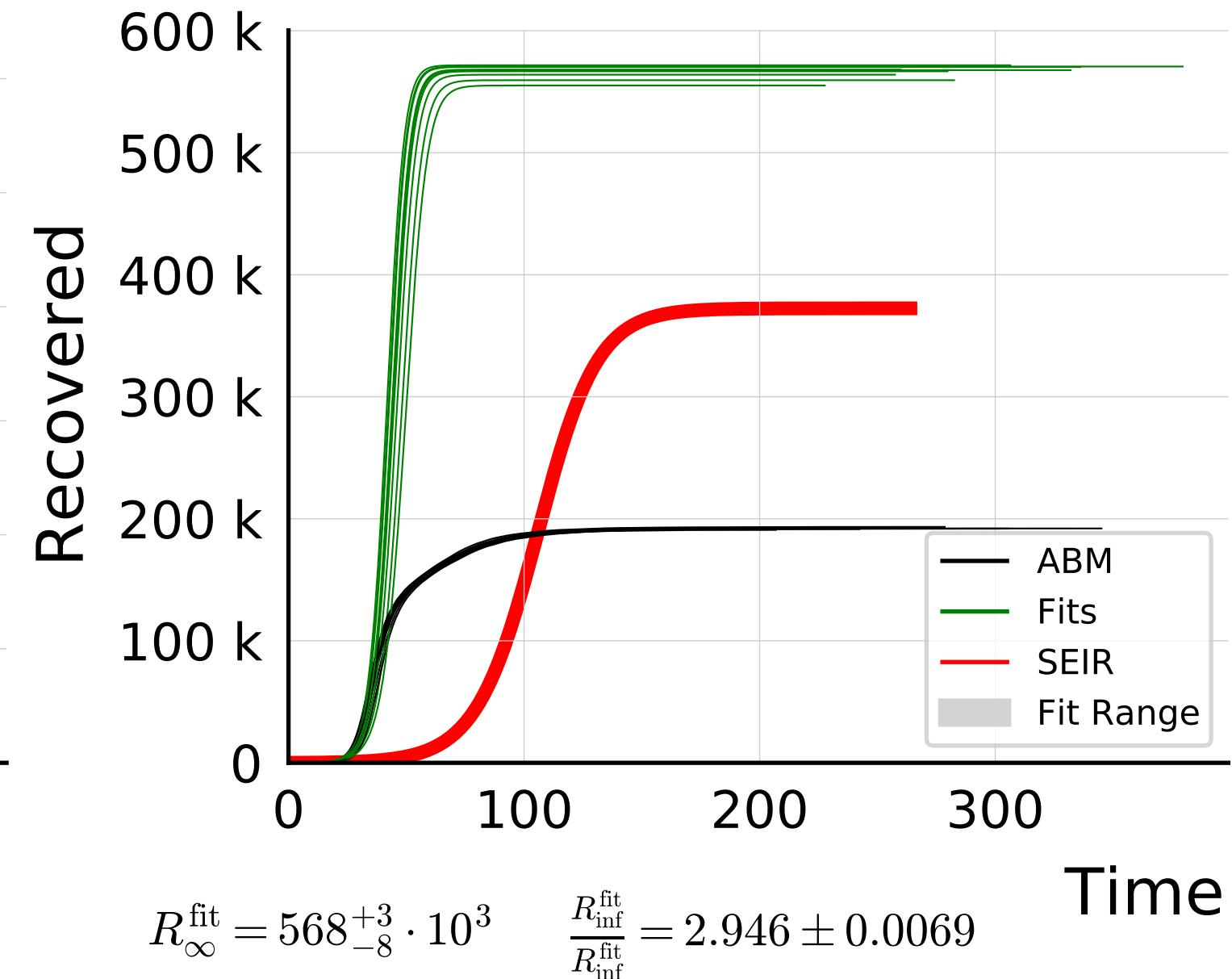
$$R_{\infty}^{\text{fit}} = 51_{-4}^{+2} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 4.38 \pm 0.073$$

$N_{\text{tot}} = 580K$, $\rho = 0.2$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

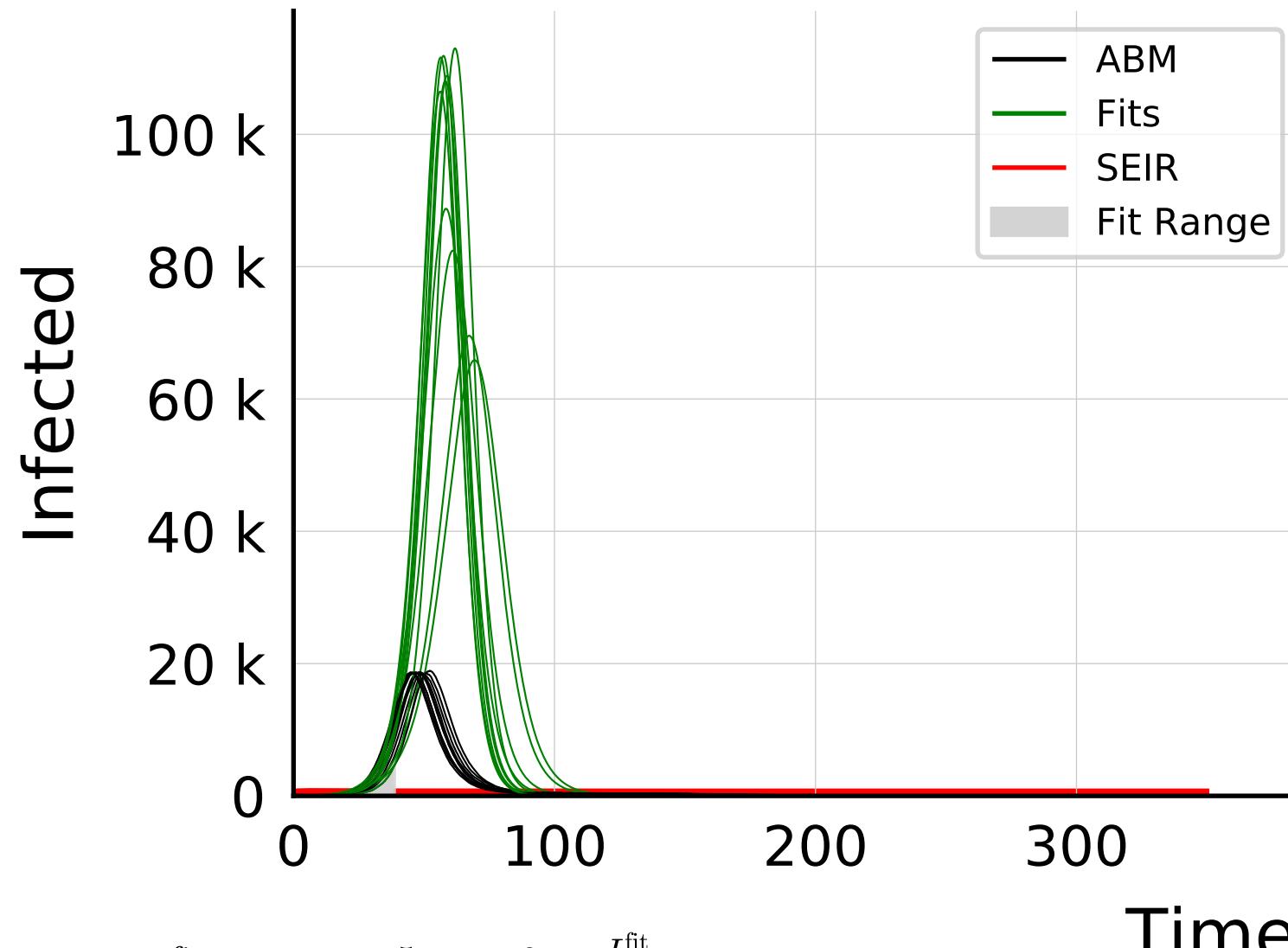


$$I_{\max}^{\text{fit}} = 142_{-16}^{+8} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.82 \pm 0.087$$

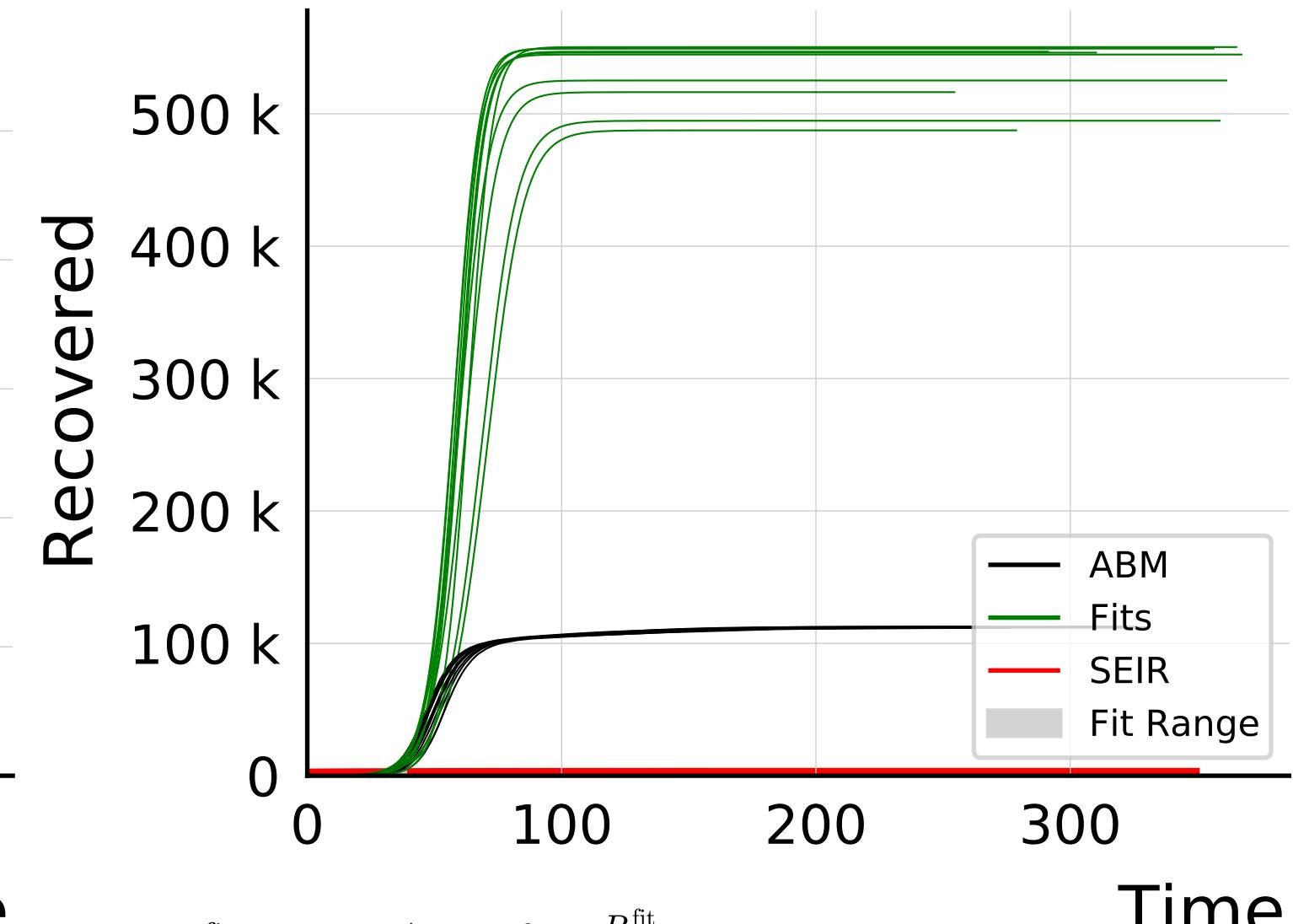


$$R_{\infty}^{\text{fit}} = 568_{-8}^{+3} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.946 \pm 0.0069$$

$N_{\text{tot}} = 580K$, $\rho = 0.3$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

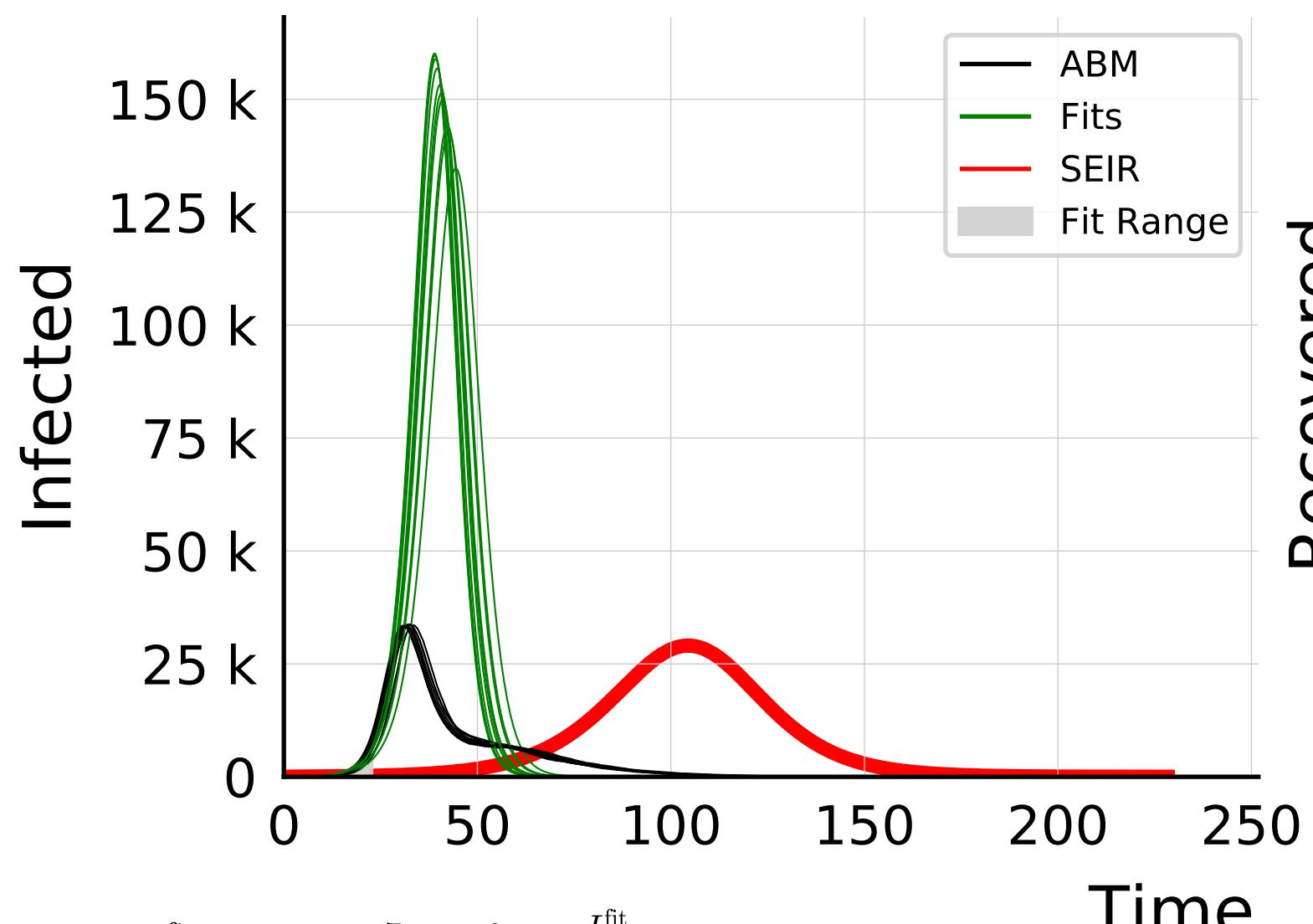


$$I_{\max}^{\text{fit}} = 107^{+5}_{-40} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 5.2 \pm 0.29$$



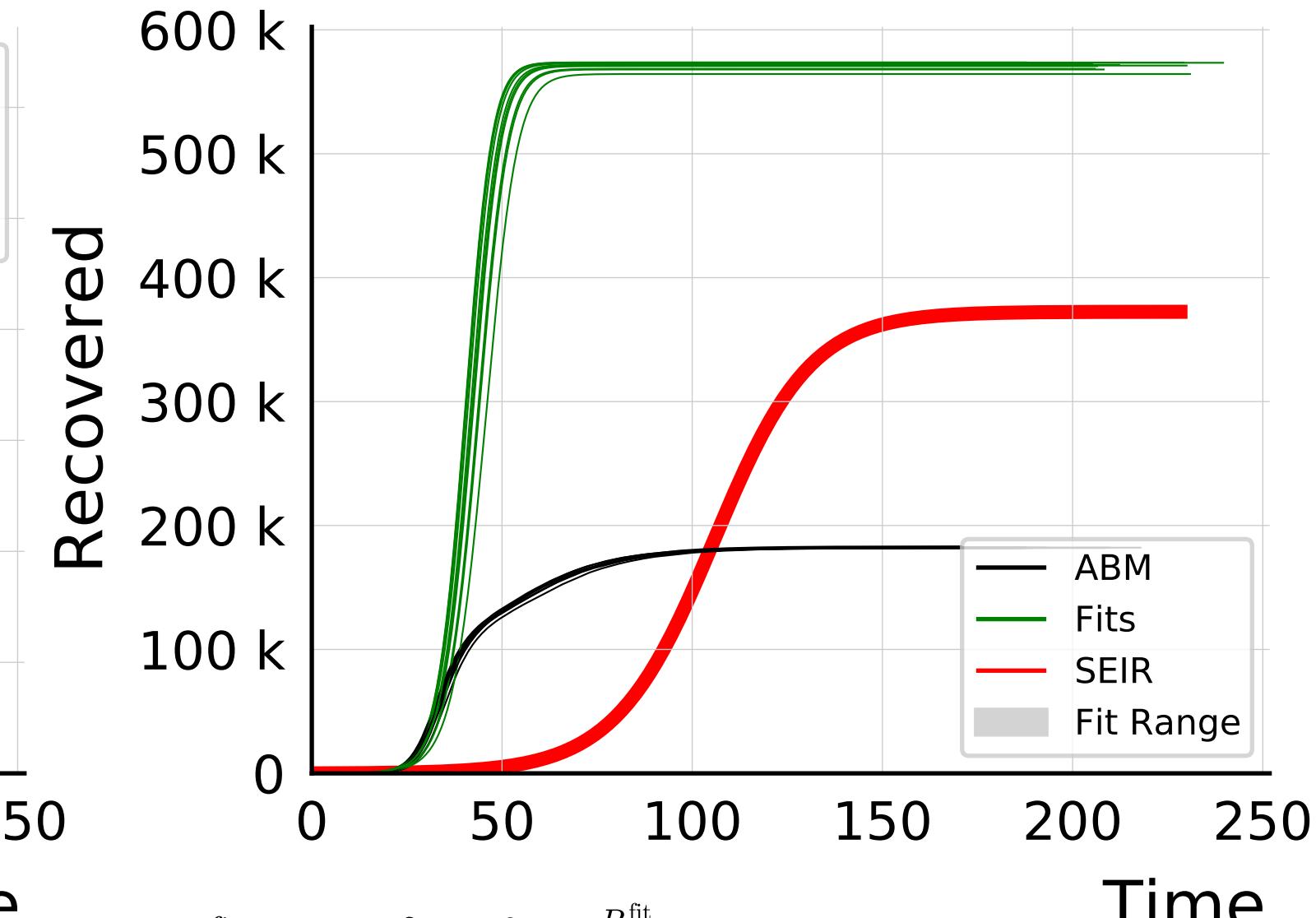
$$R_{\infty}^{\text{fit}} = 545^{+4}_{-50} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 4.73 \pm 0.065$$

$N_{\text{tot}} = 580K$, $\rho = 0.3$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$$I_{\max}^{\text{fit}} = 152_{-9}^{+7} \cdot 10^3$$

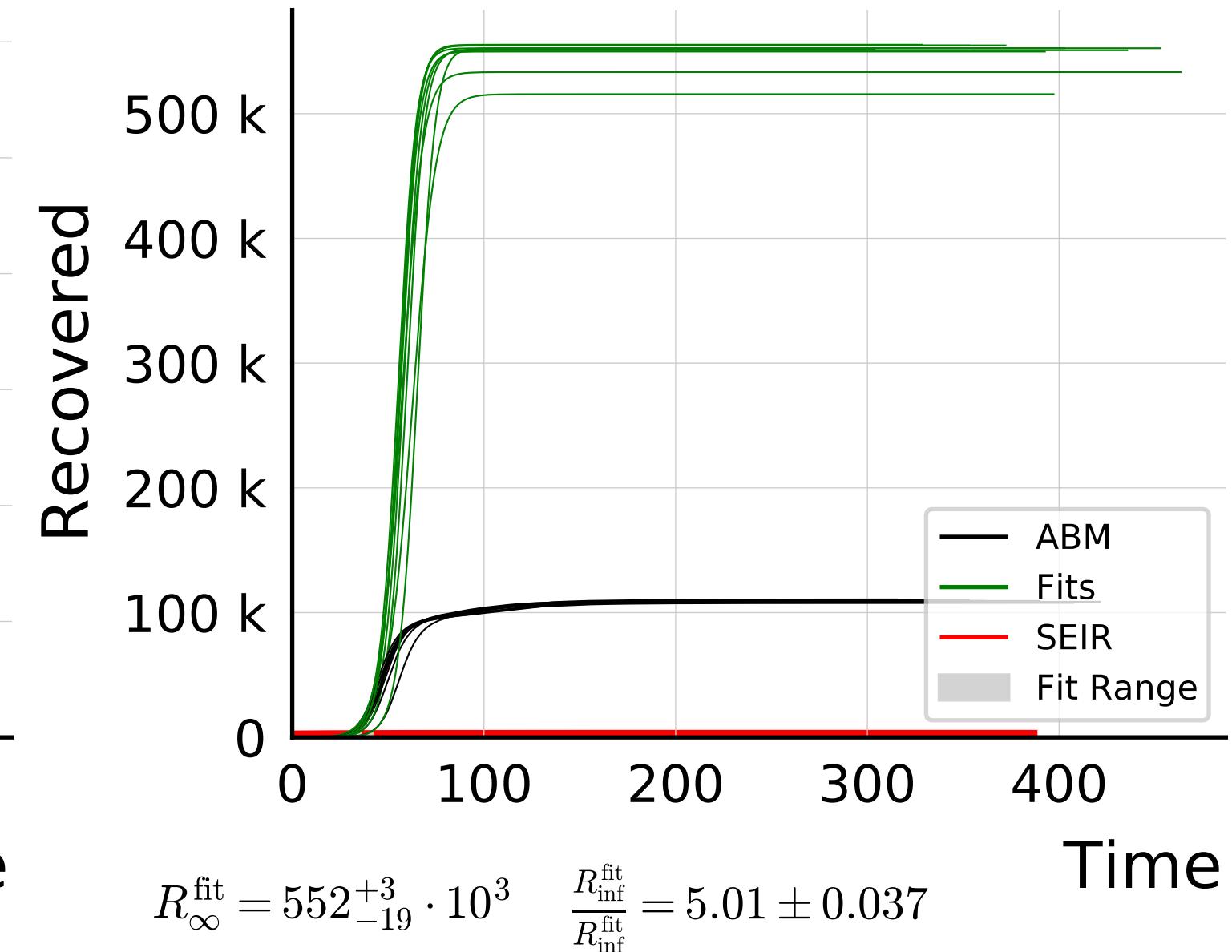
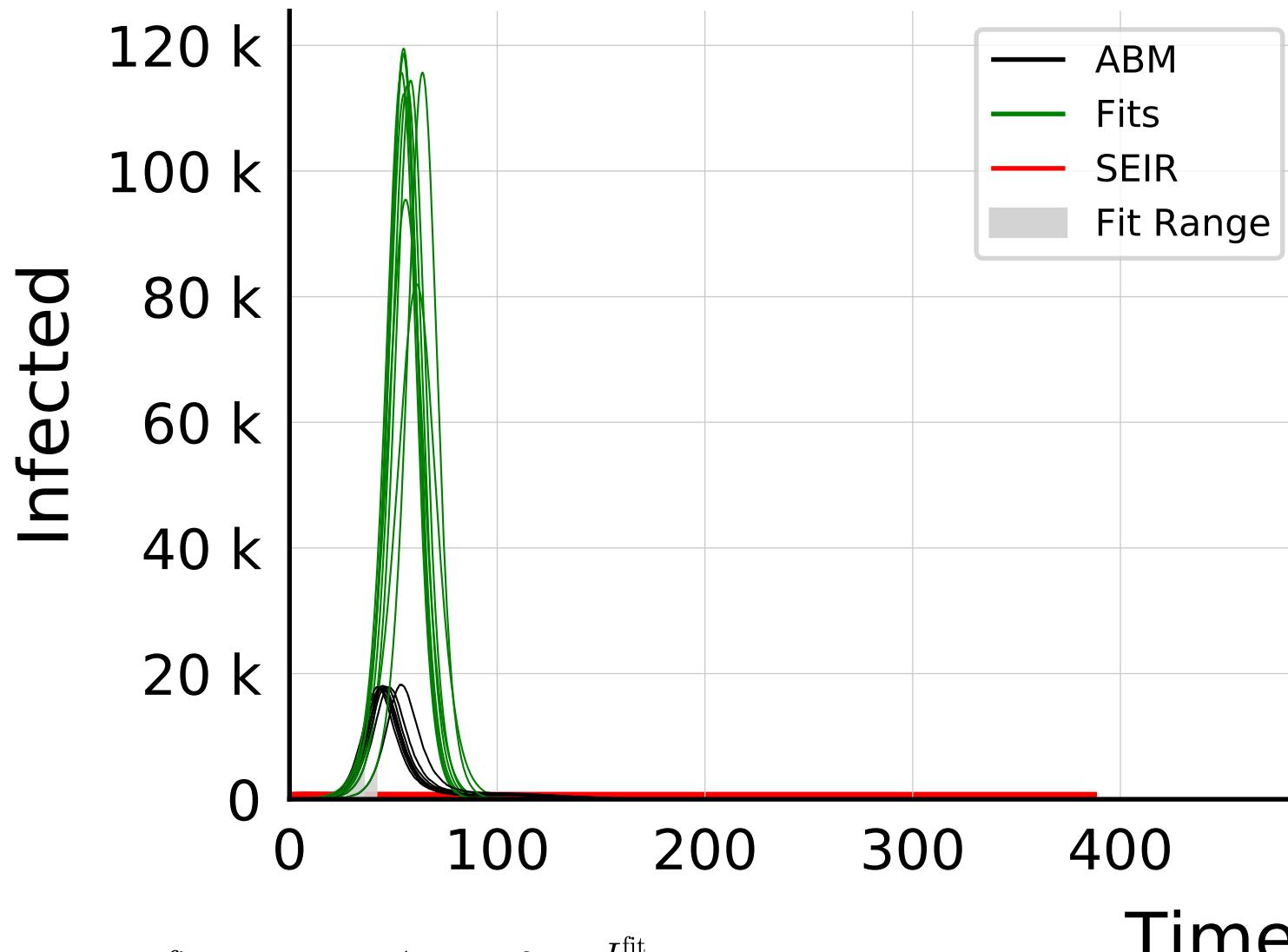
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.51 \pm 0.080$$



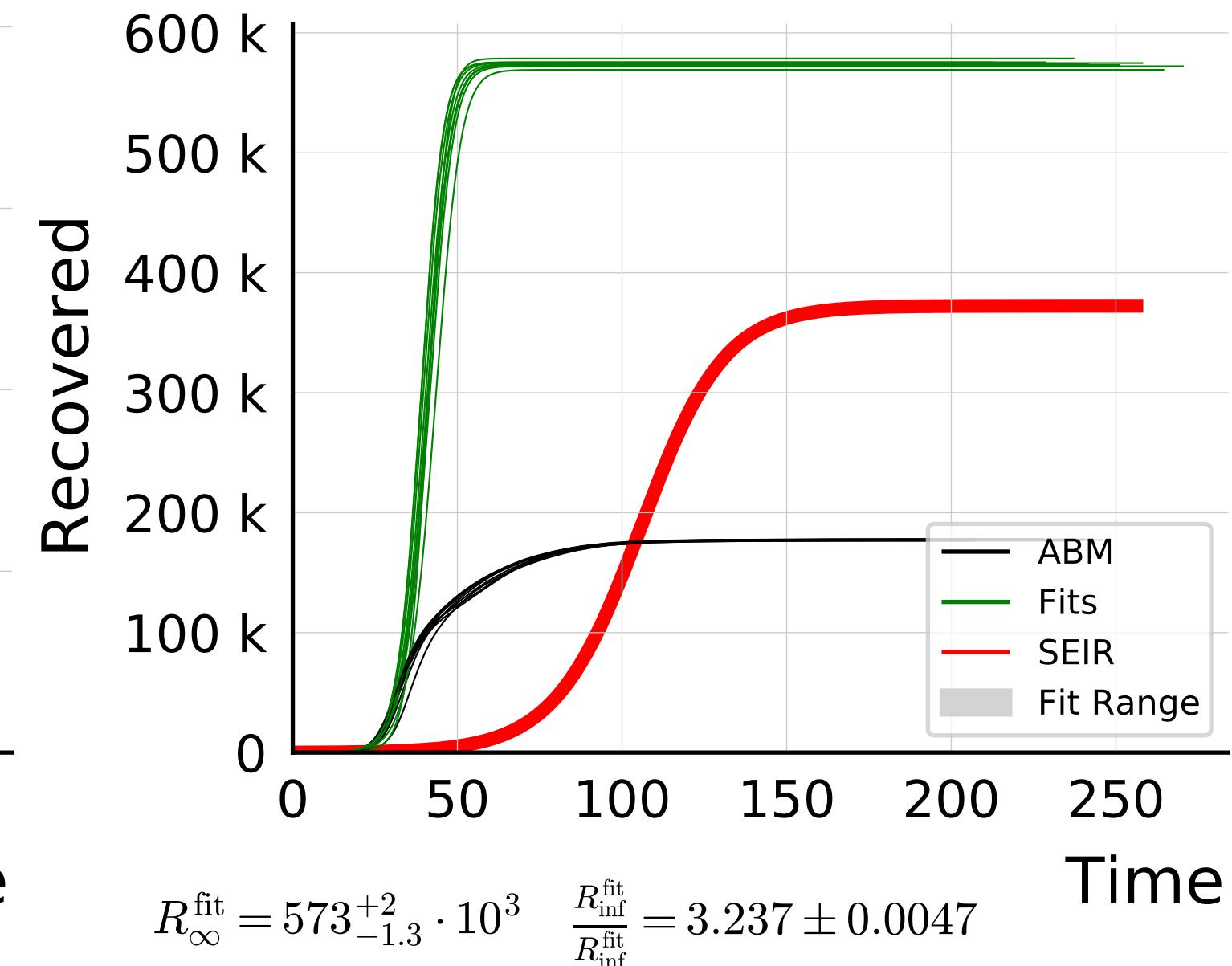
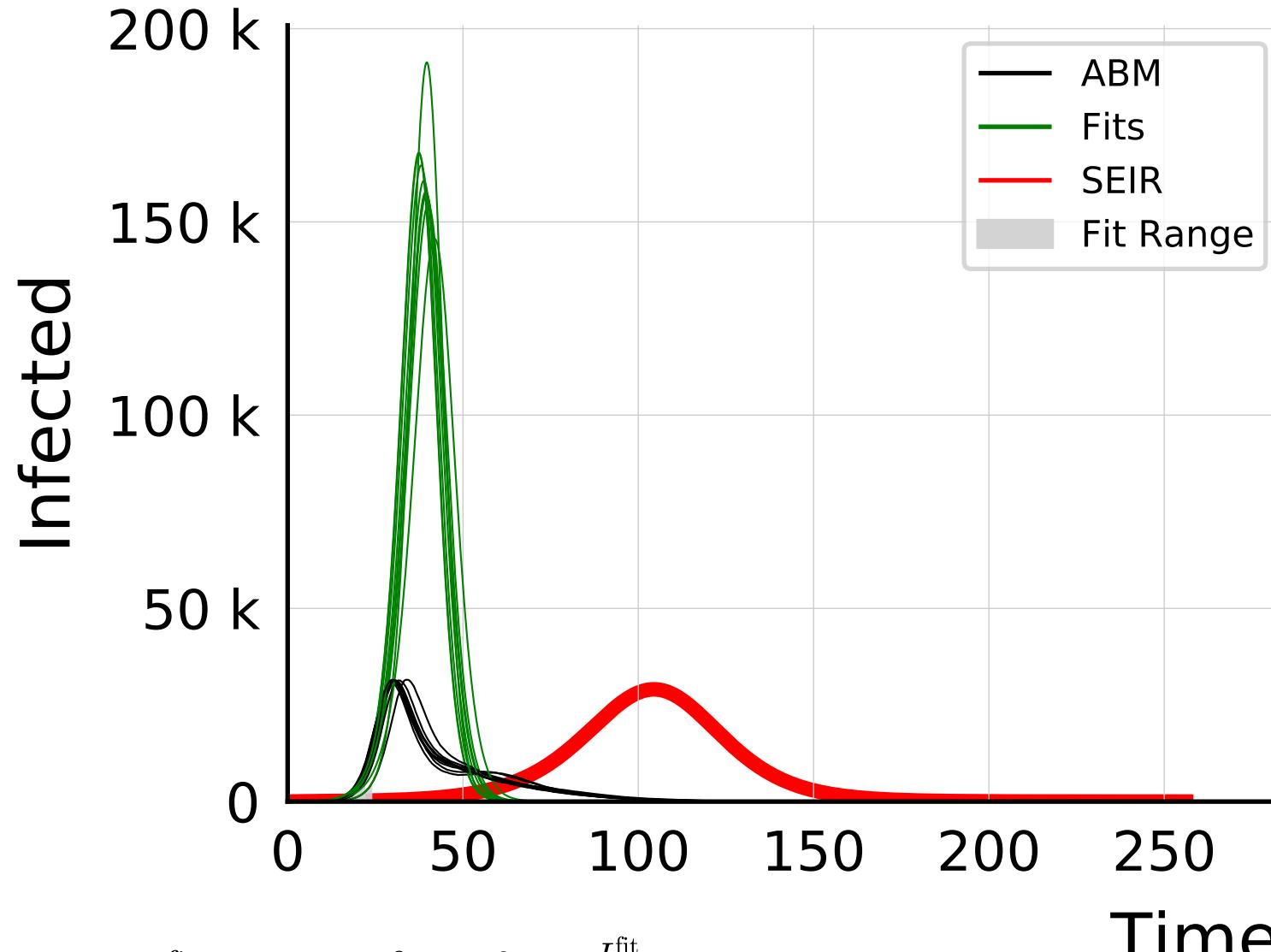
$$R_{\infty}^{\text{fit}} = 571_{-3}^{+2} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 3.133 \pm 0.0046$$

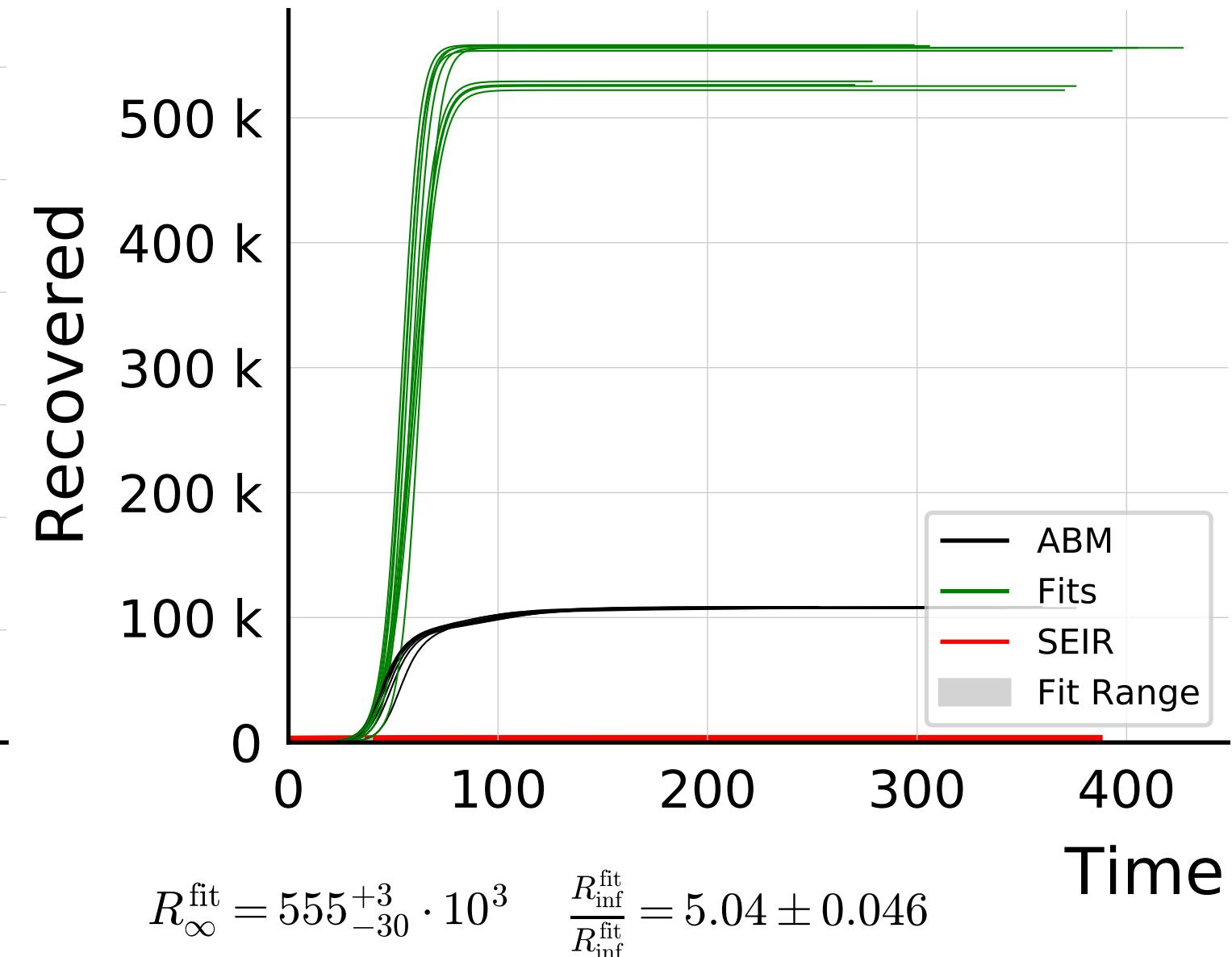
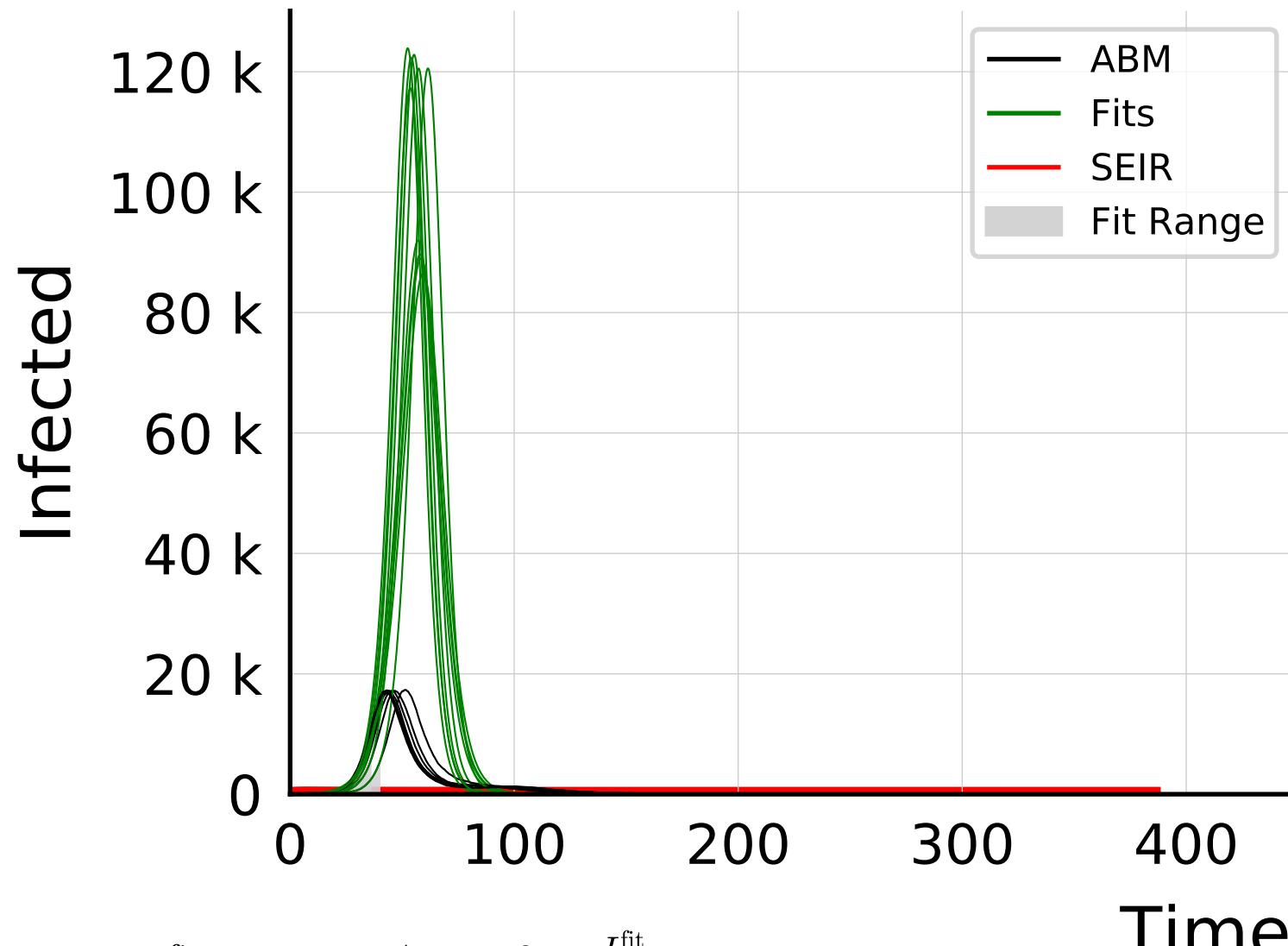
$N_{\text{tot}} = 580K$, $\rho = 0.4$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.4$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.5$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10



$N_{\text{tot}} = 580K$, $\rho = 0.5$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$, algo = 2, $N_{\text{init}} = 100$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, rand. inf. = True, v. = 1.0, #10

