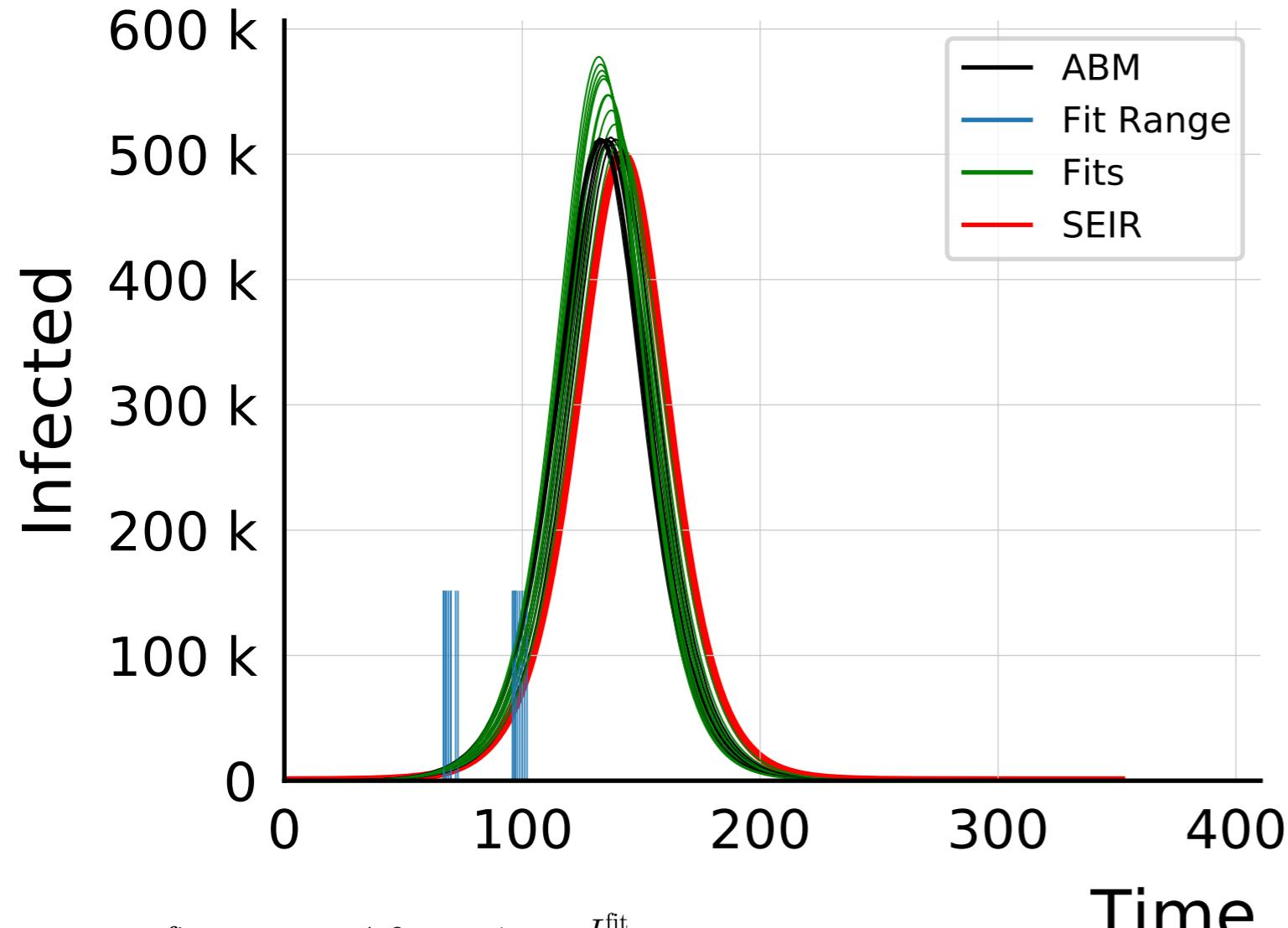
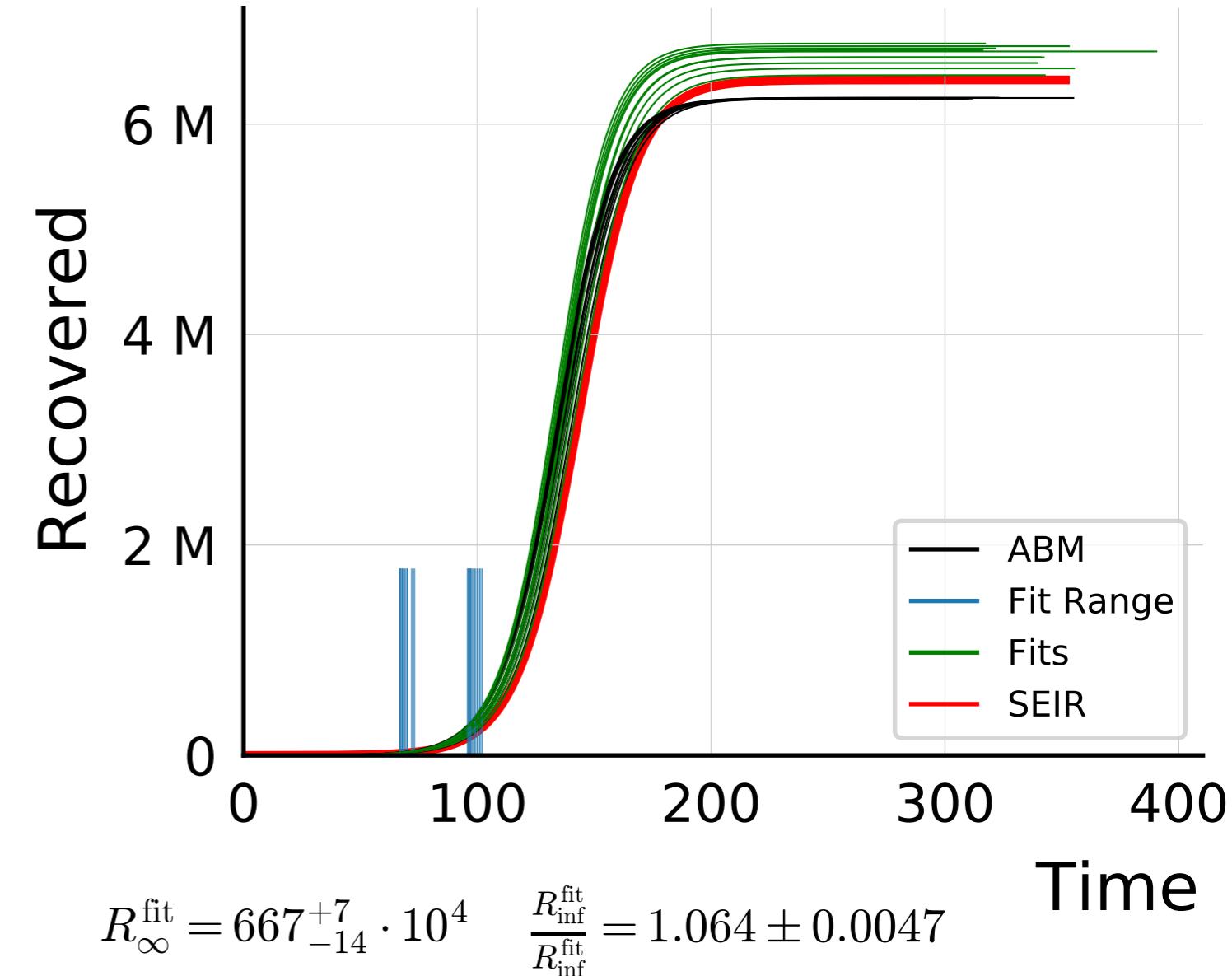


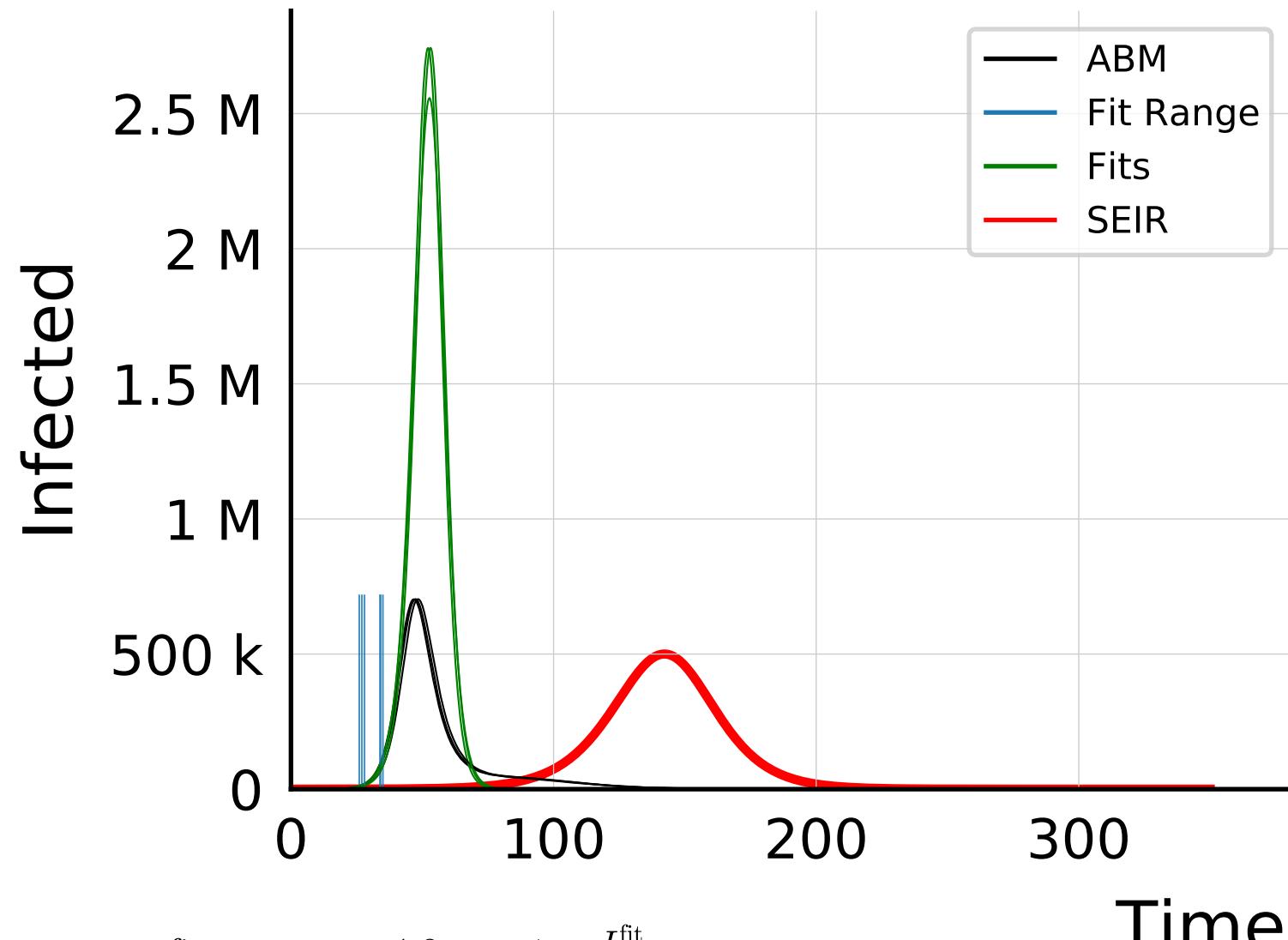
$N_{\text{tot}} = 10M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



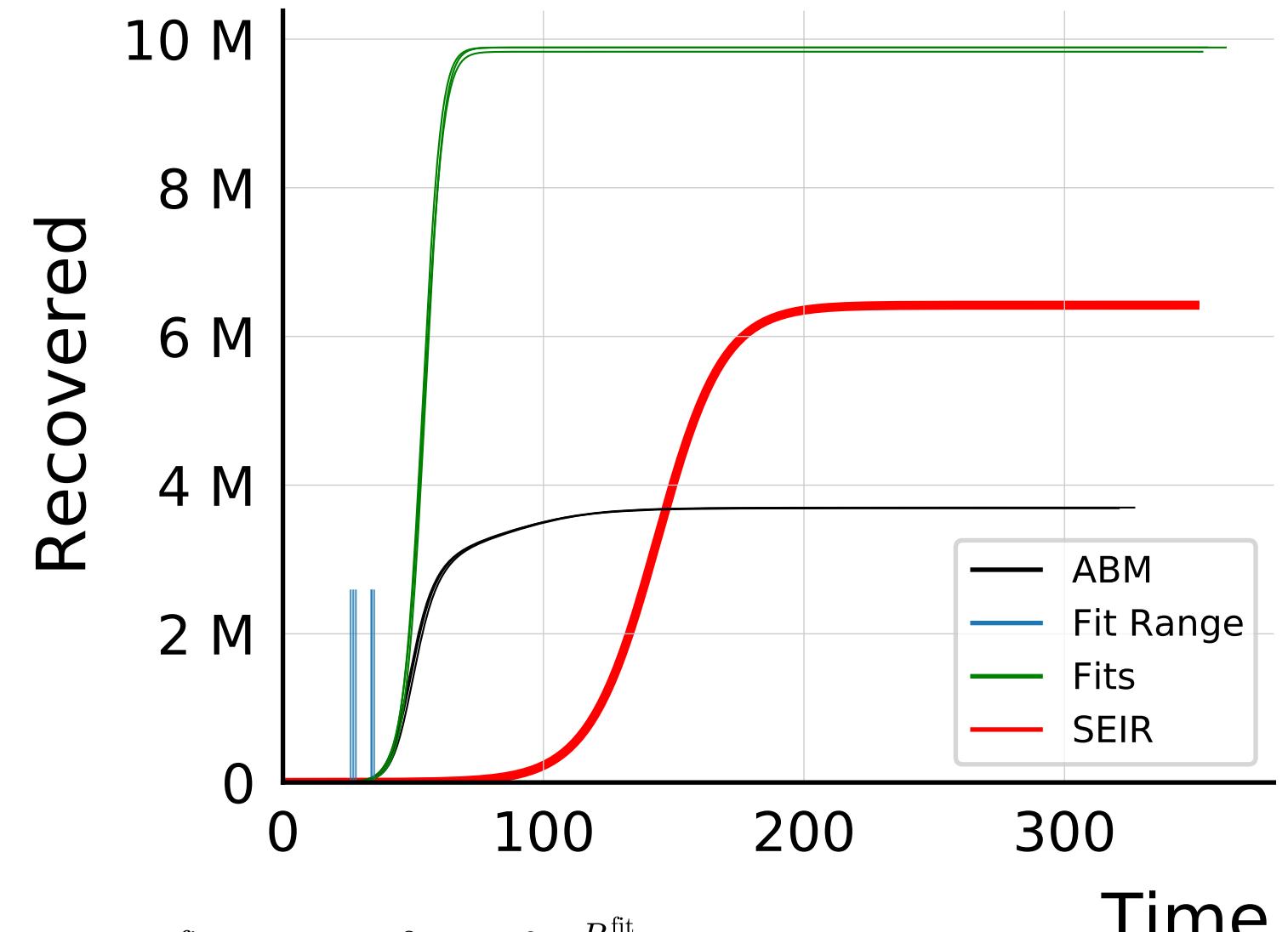
$$I_{\max}^{\text{fit}} = 56_{-3}^{+1.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.07 \pm 0.013$$



$N_{\text{tot}} = 10M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #3

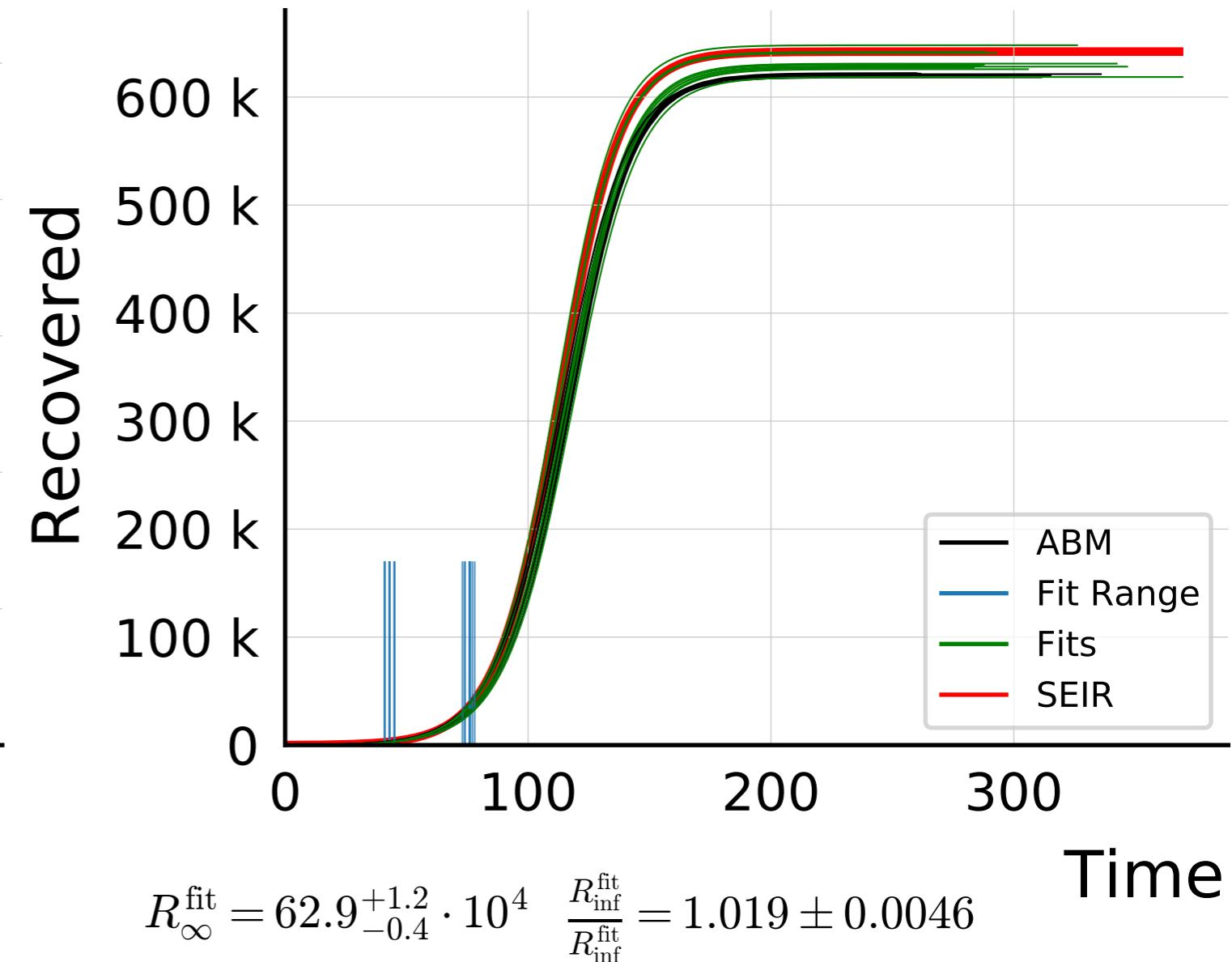
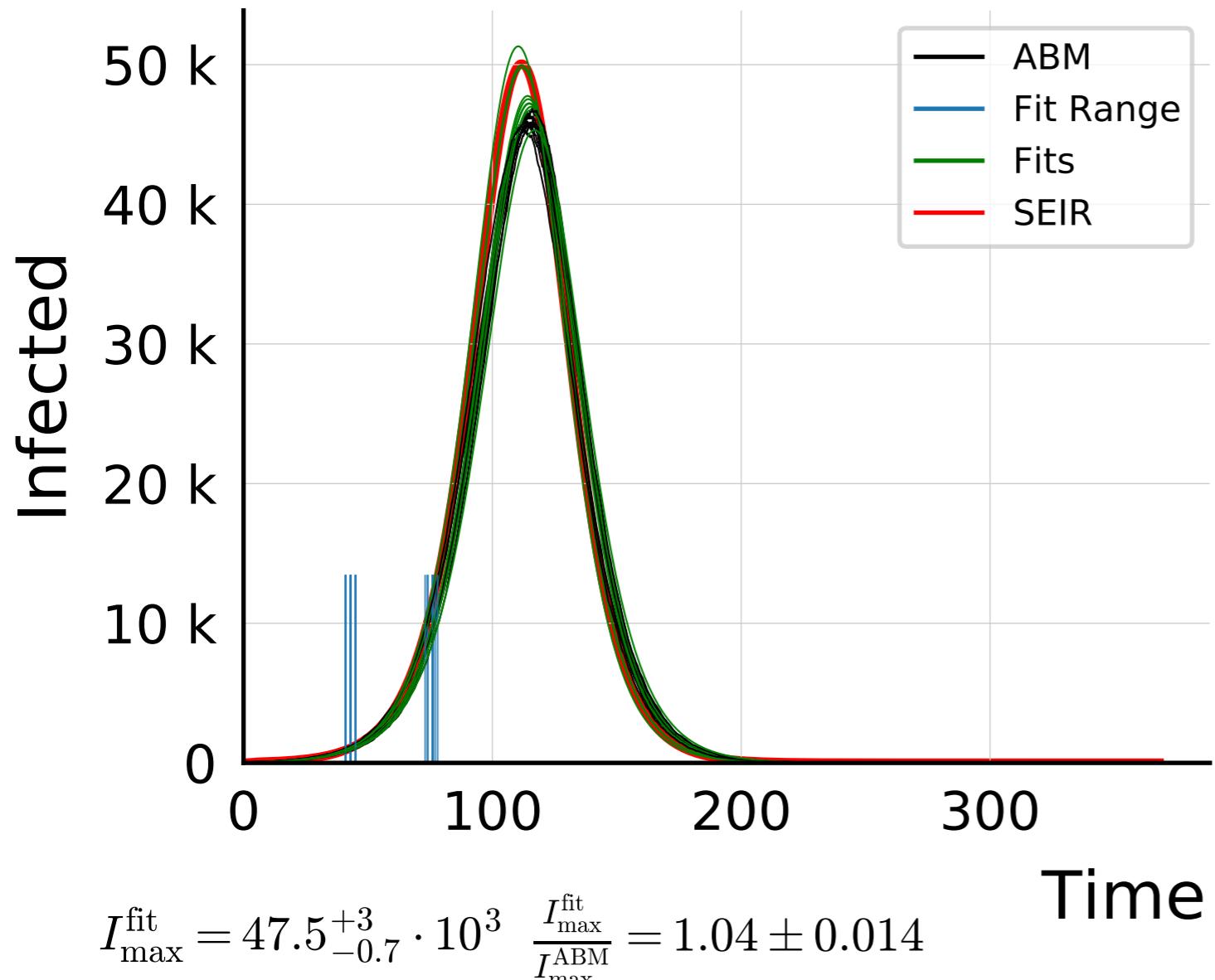


$$I_{\max}^{\text{fit}} = 274_{-18}^{+1.3} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.81 \pm 0.071$$

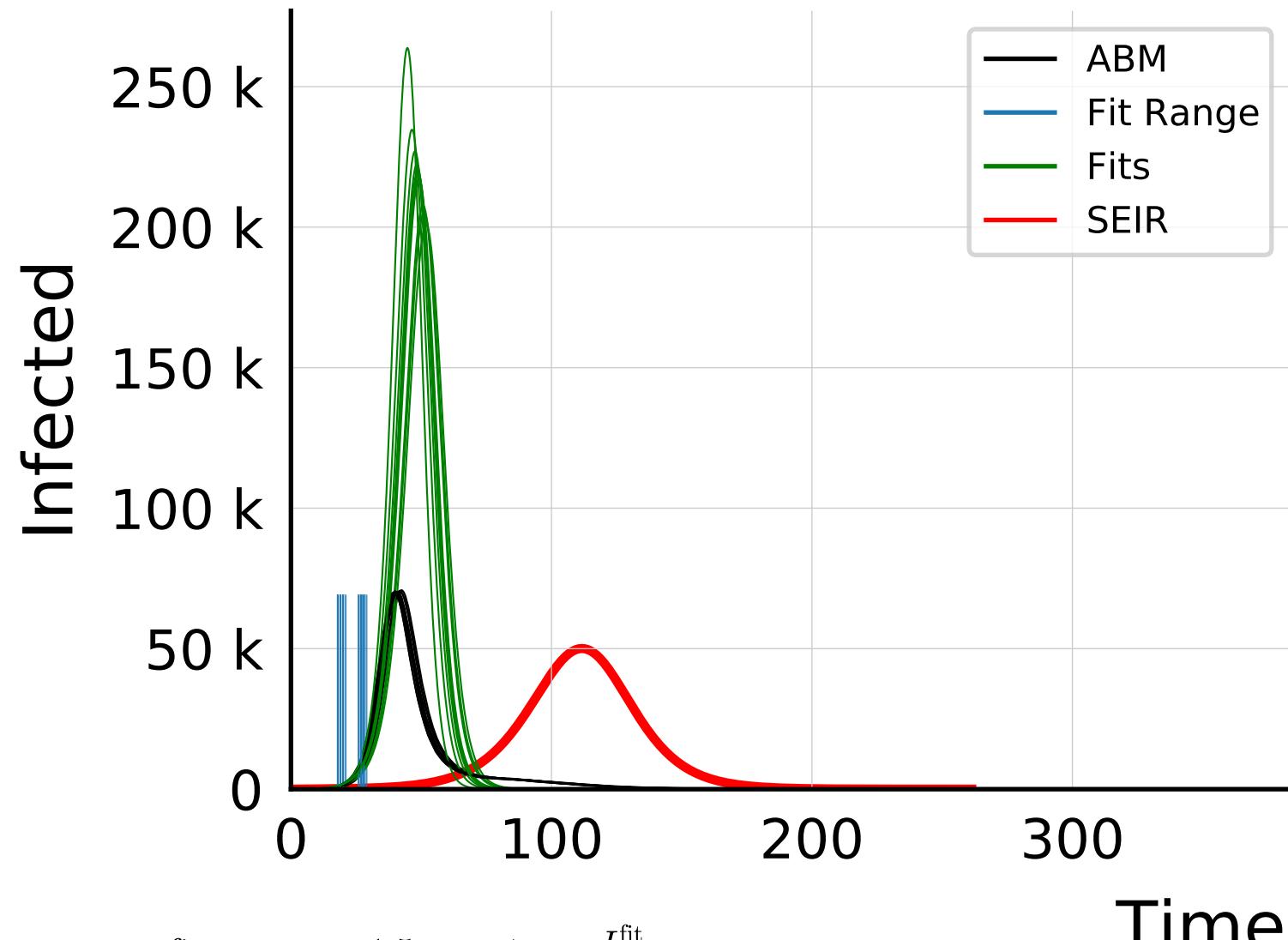


$$R_{\infty}^{\text{fit}} = 9886_{-60}^{+3} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 2.671 \pm 0.0025$$

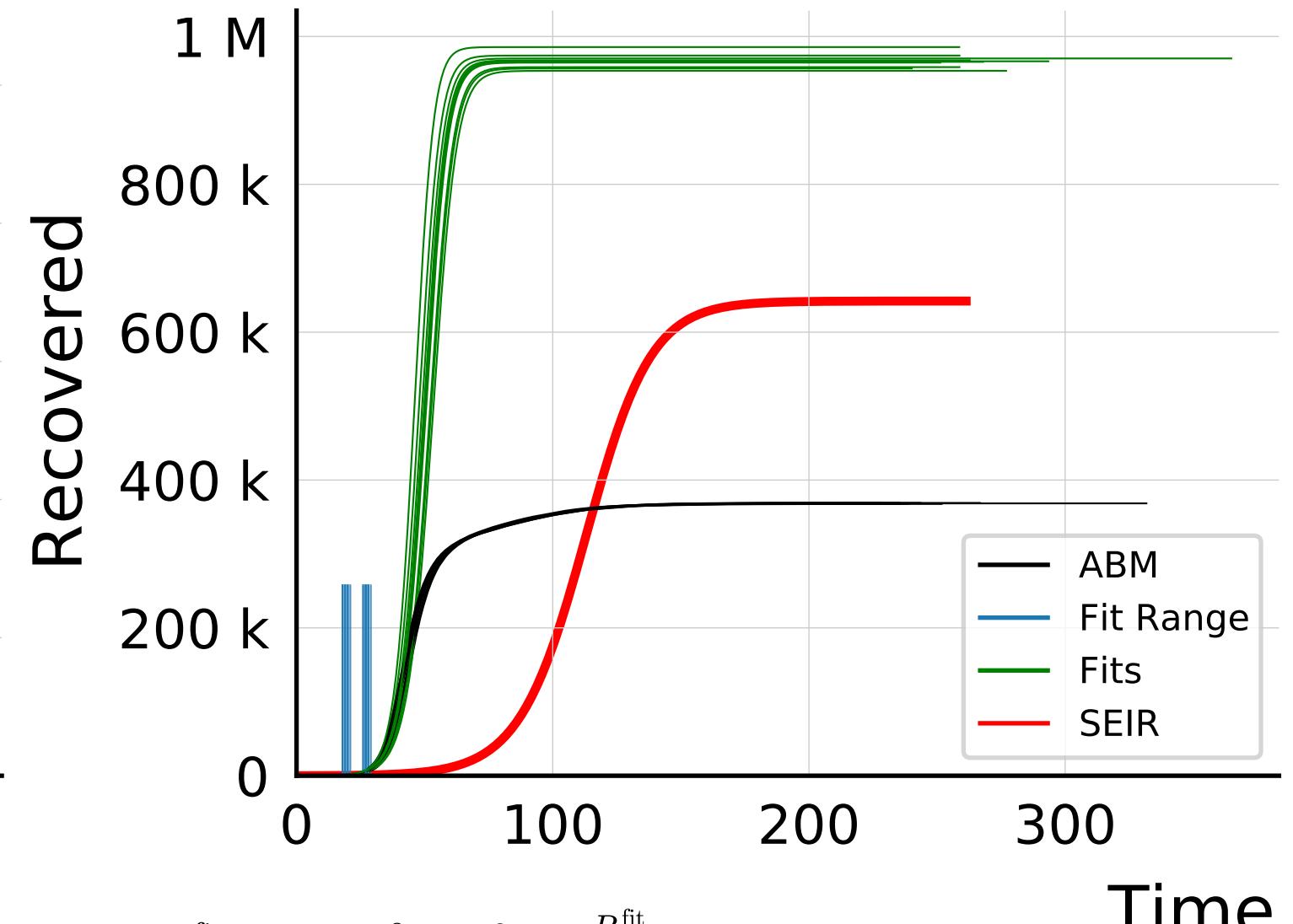
$N_{\text{tot}} = 1M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$N_{\text{tot}} = 1M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

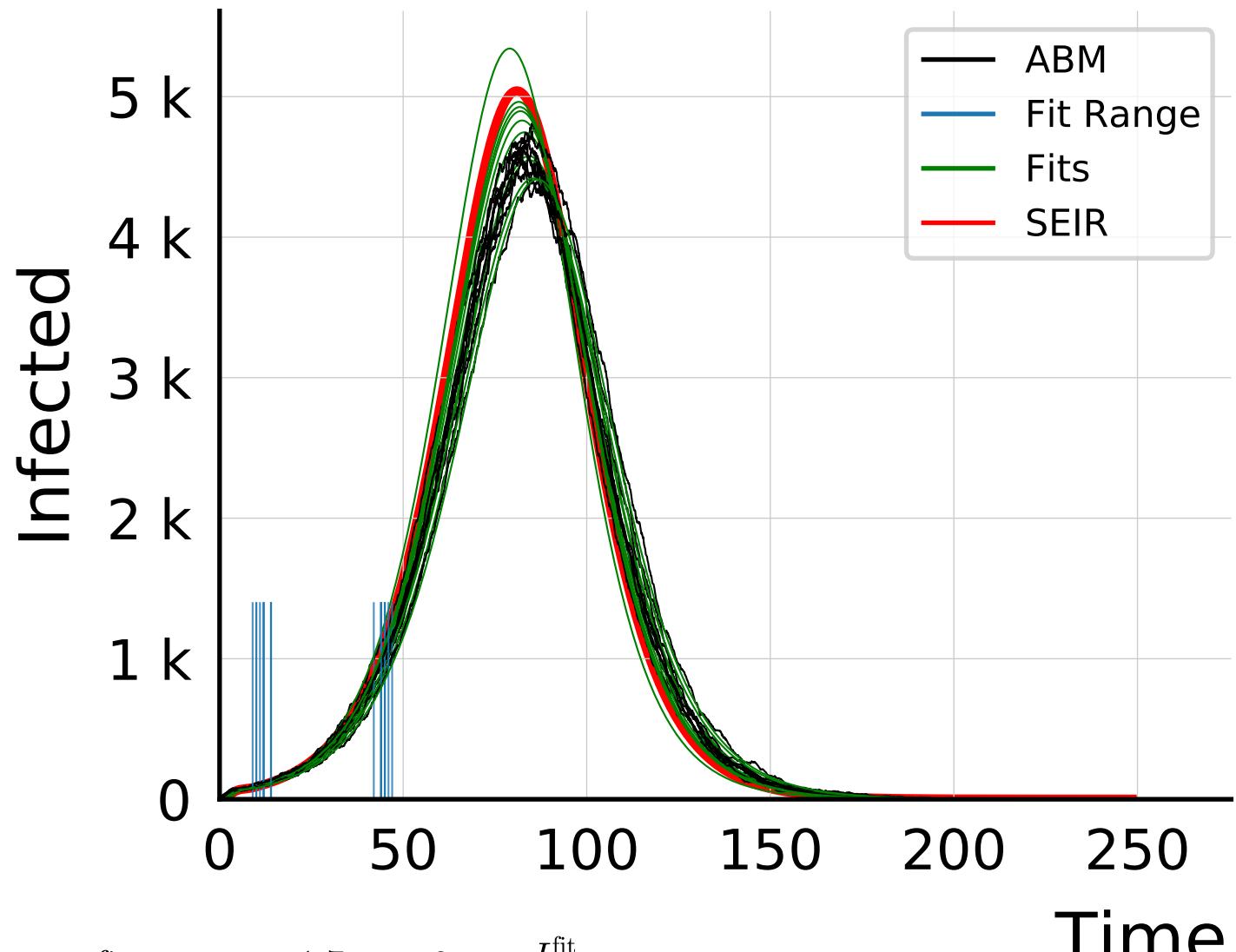


$$I_{\max}^{\text{fit}} = 22_{-1.4}^{+1.5} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.16 \pm 0.078$$



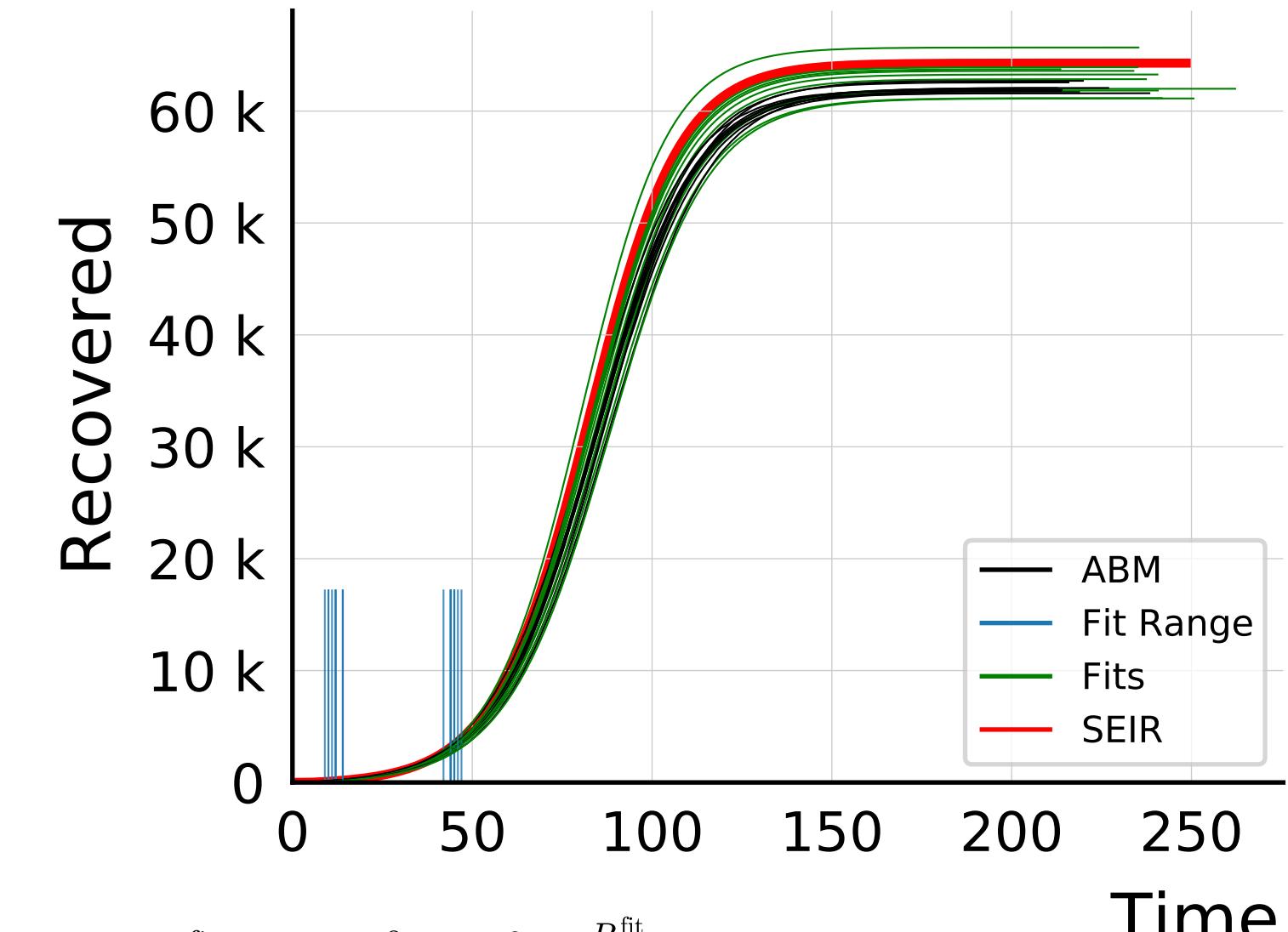
$$R_{\infty}^{\text{fit}} = 966_{-9}^{+8} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 2.622 \pm 0.0078$$

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



$$I_{\text{max}}^{\text{fit}} = 48_{-3}^{+1.7} \cdot 10^2$$

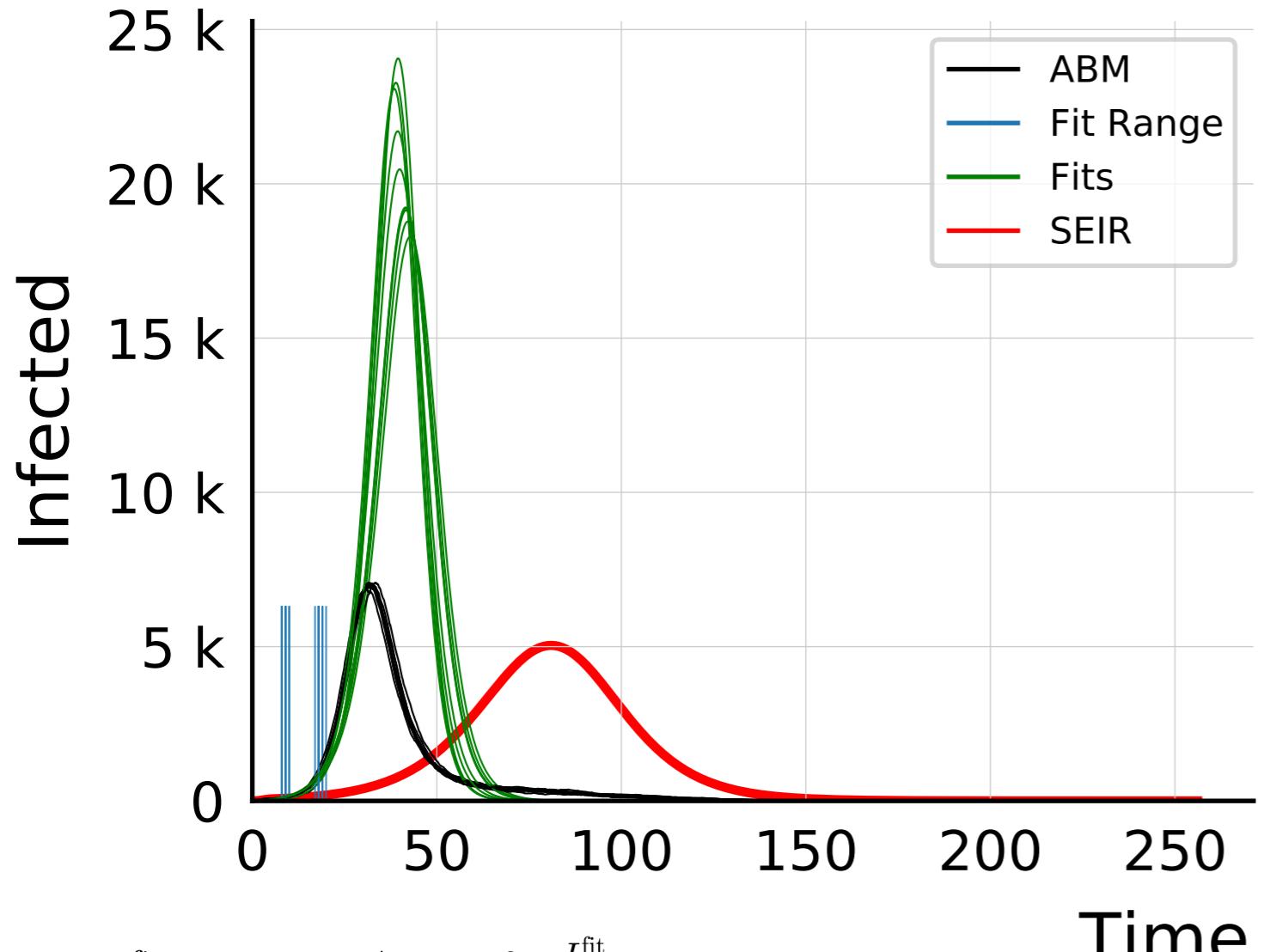
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.03 \pm 0.020$$



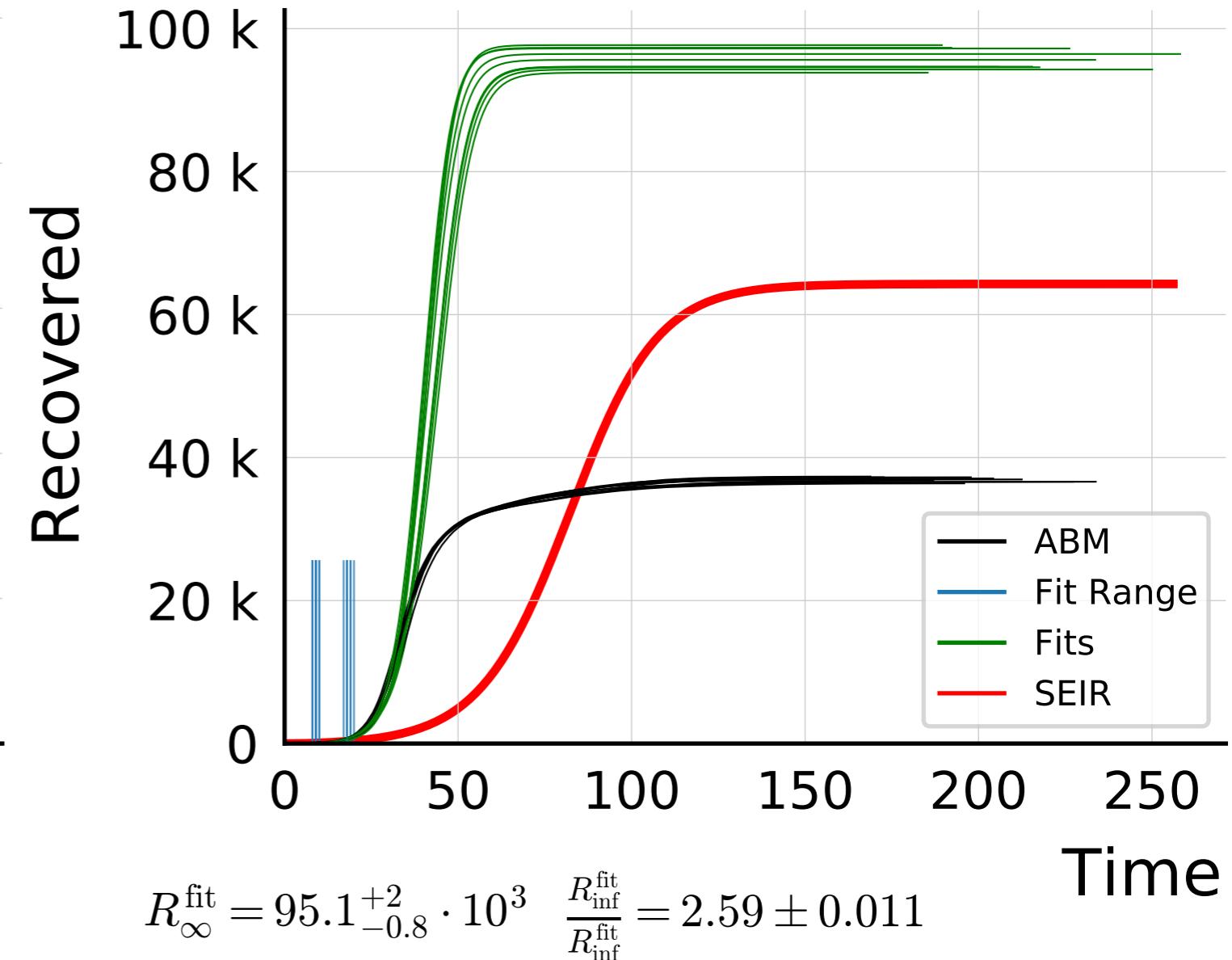
$$R_{\infty}^{\text{fit}} = 631_{-17}^{+8} \cdot 10^2$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.015 \pm 0.0076$$

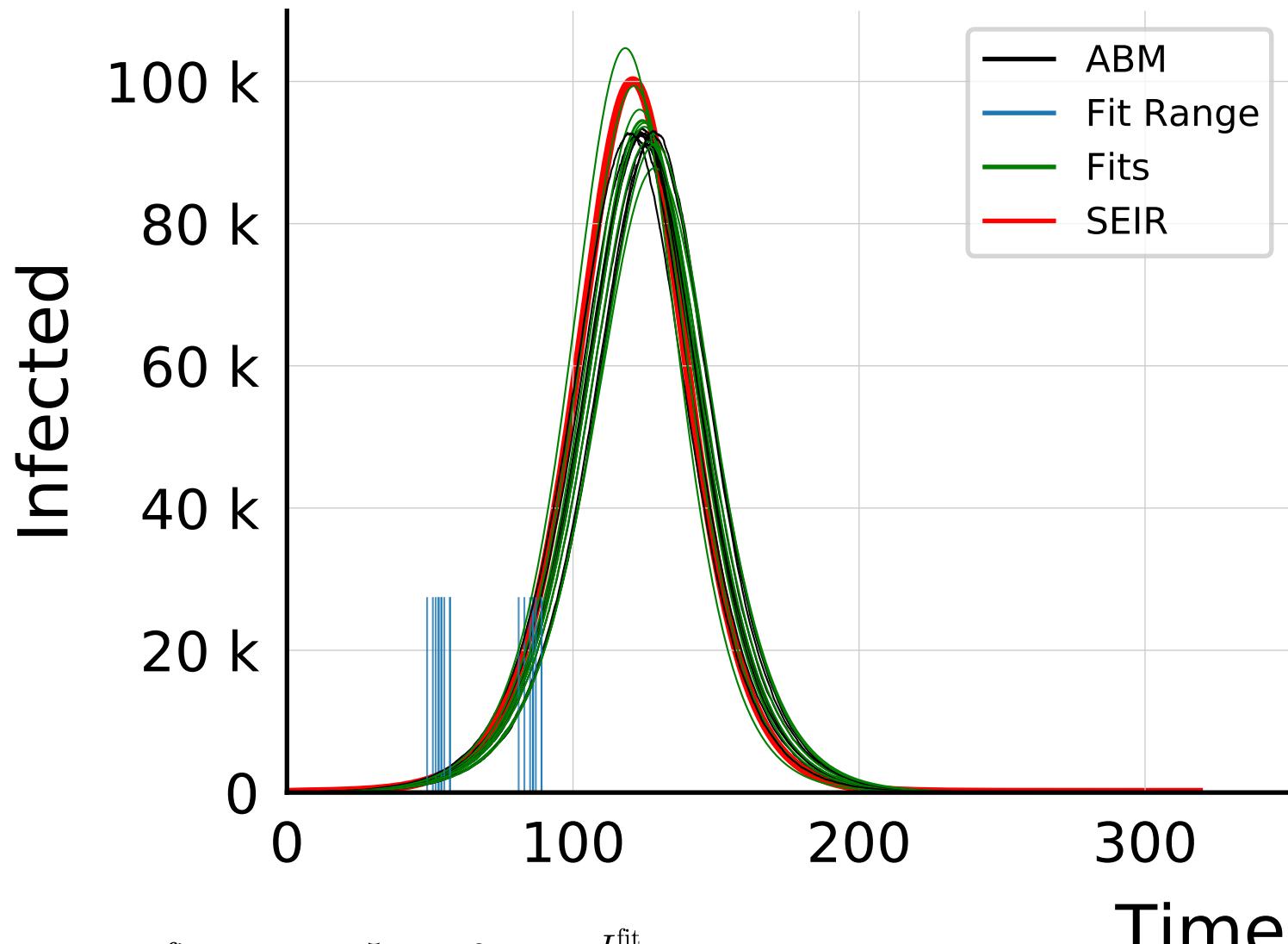
$N_{\text{tot}} = 100K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\text{max}}^{\text{fit}} = 19.7_{-0.9}^{+4} \cdot 10^3 \quad \frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 2.96 \pm 0.090$$

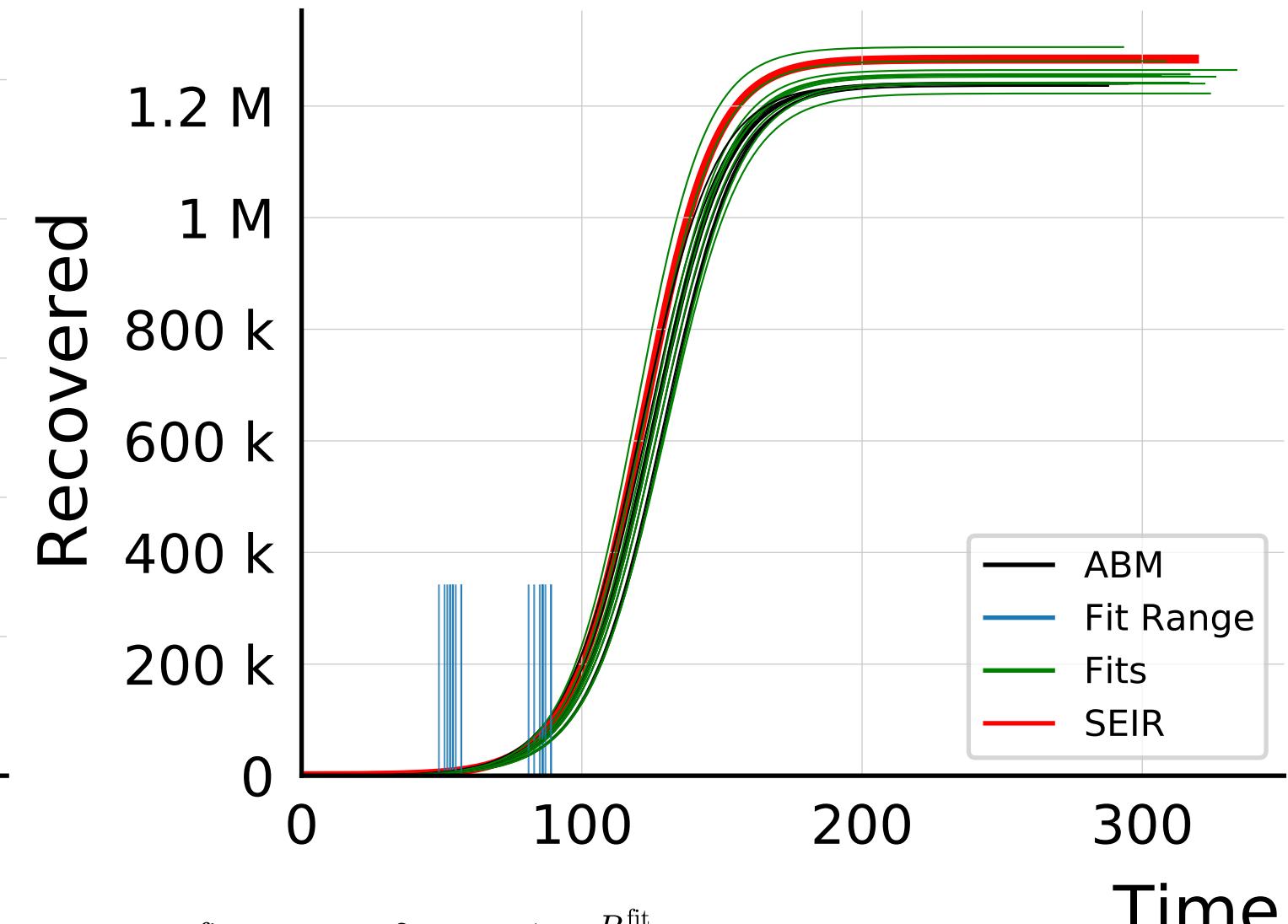


$N_{\text{tot}} = 2M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



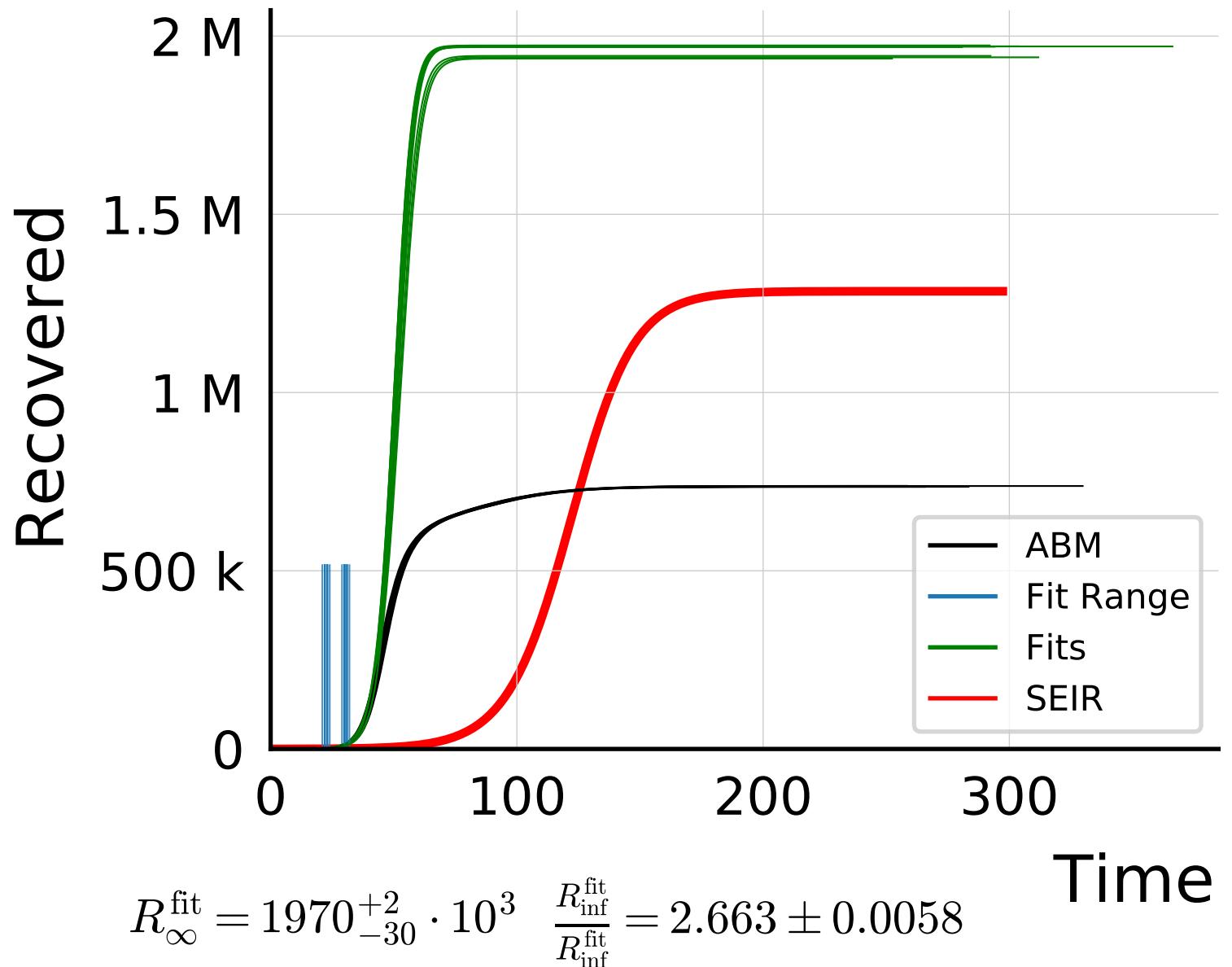
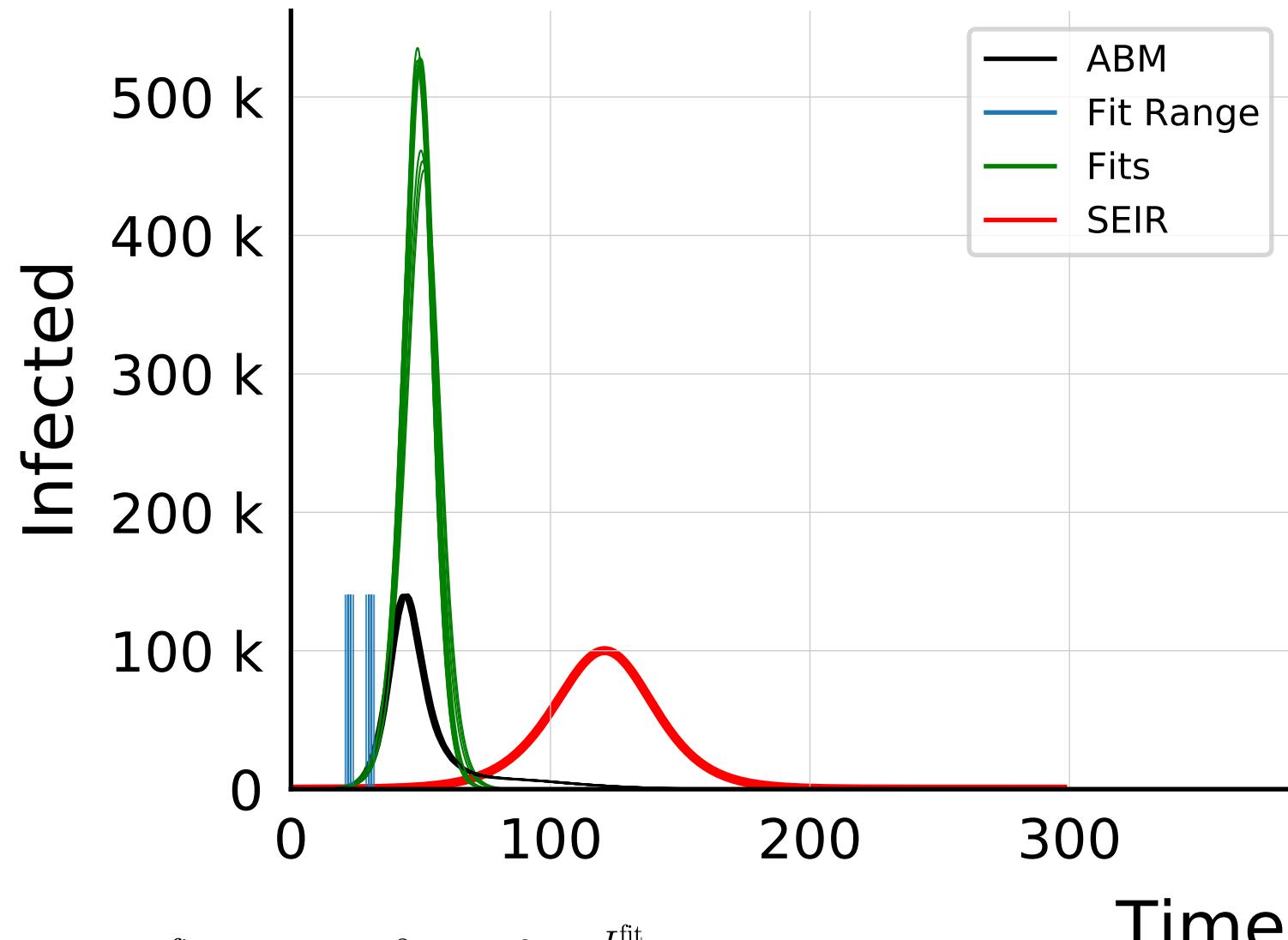
$$I_{\max}^{\text{fit}} = 94^{+5}_{-3} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.02 \pm 0.015$$

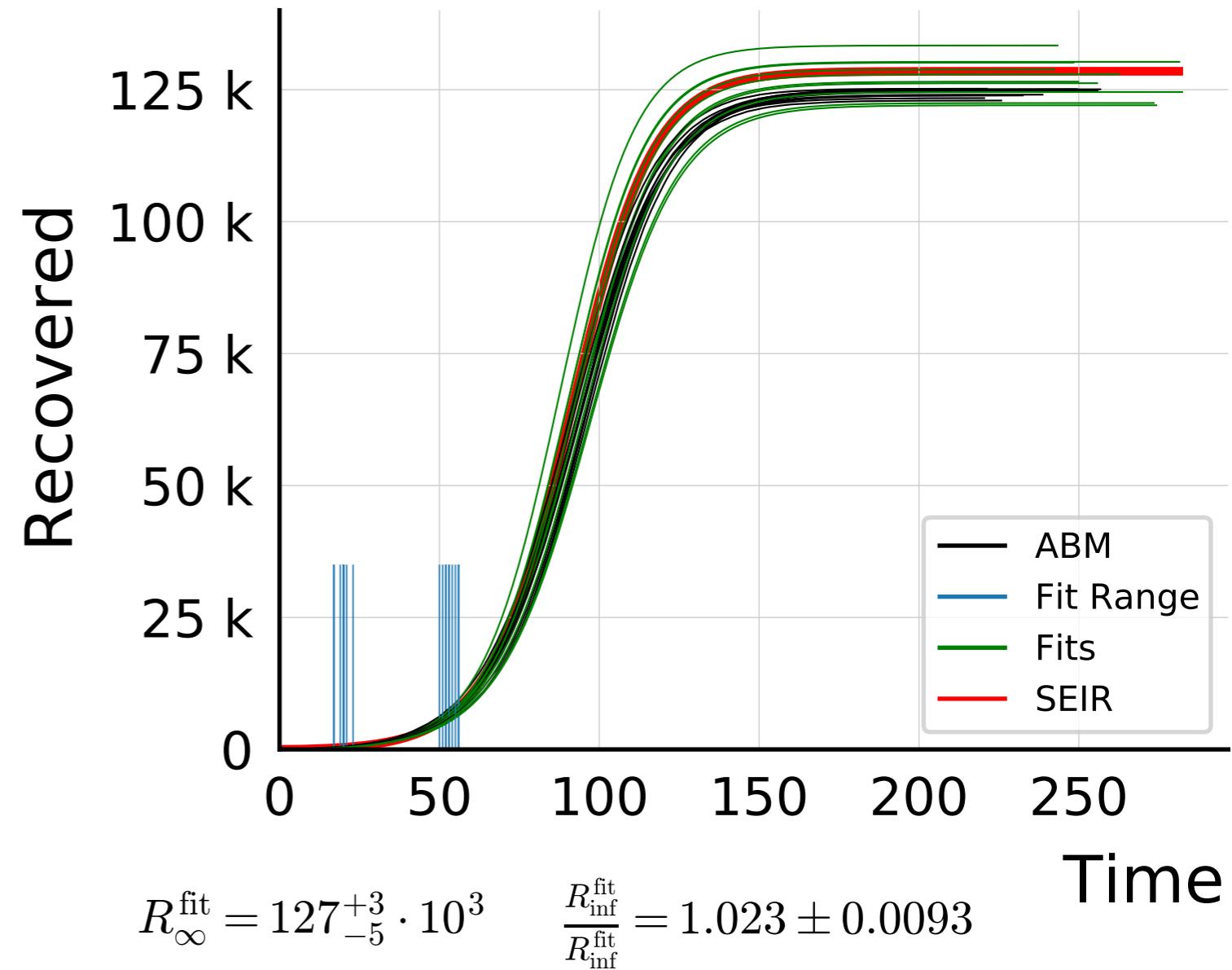
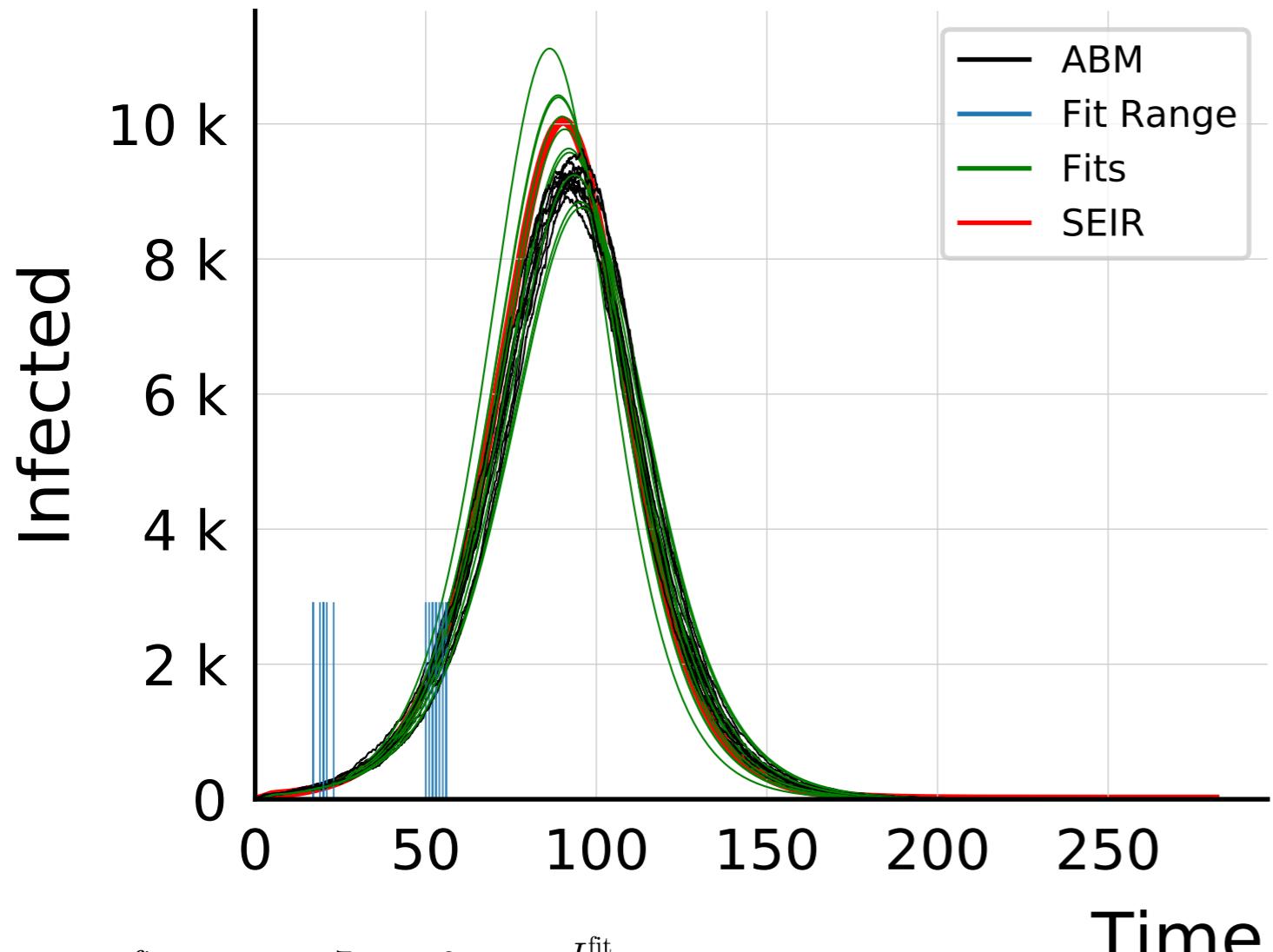


$$R_{\infty}^{\text{fit}} = 126^{+2}_{-1.6} \cdot 10^4 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.014 \pm 0.0056$$

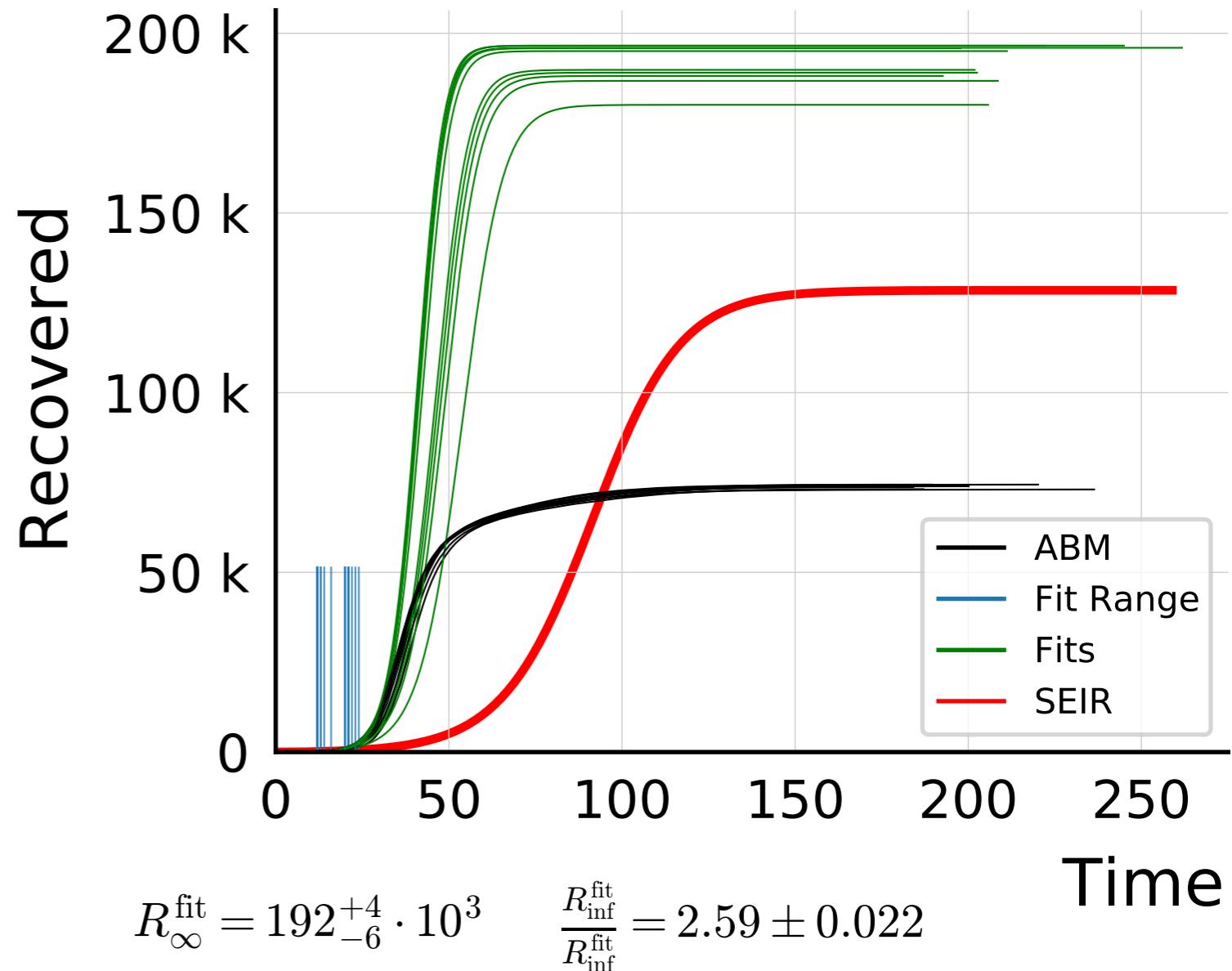
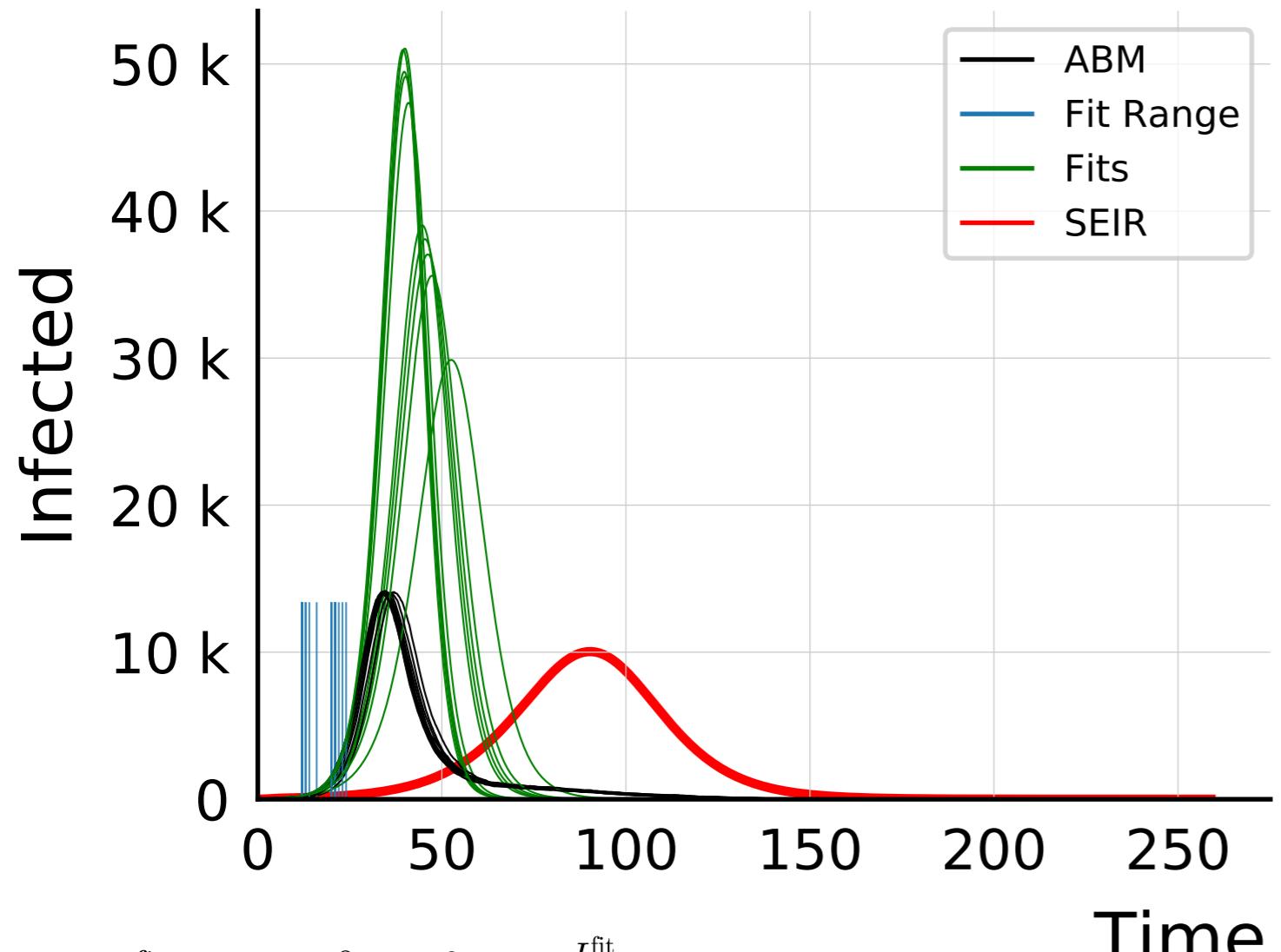
$N_{\text{tot}} = 2M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



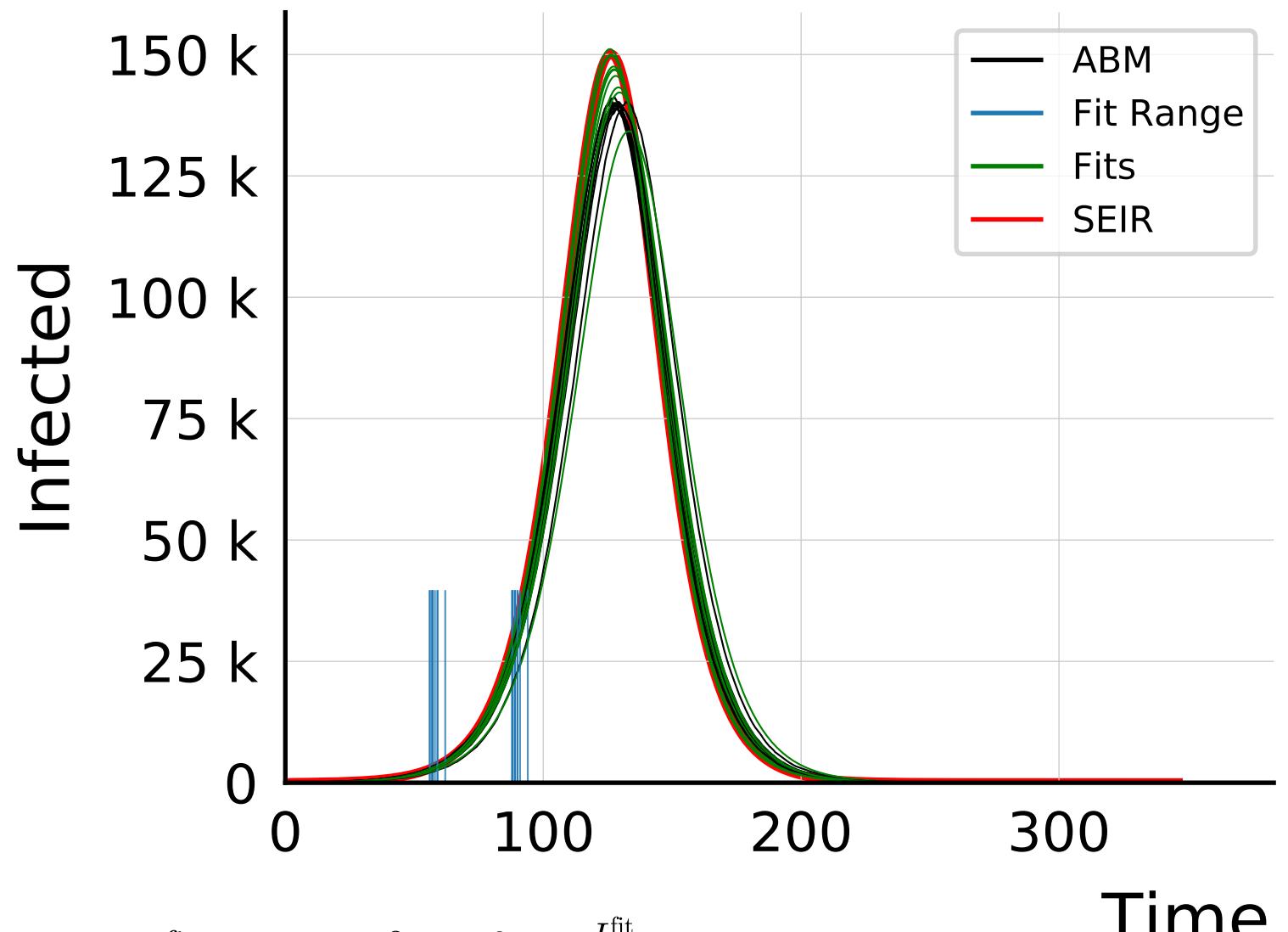
$N_{\text{tot}} = 200K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



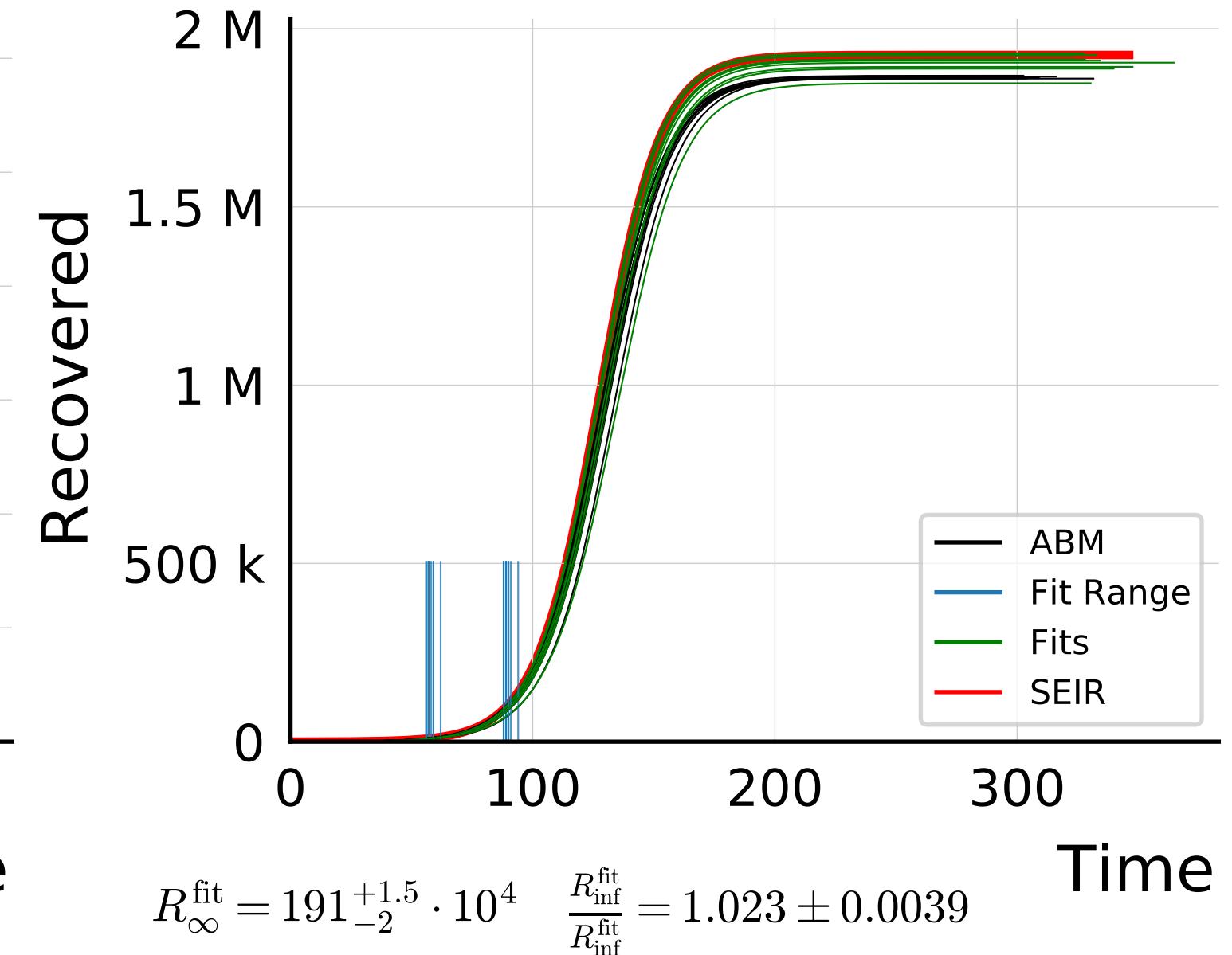
$N_{\text{tot}} = 200K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$N_{\text{tot}} = 3M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

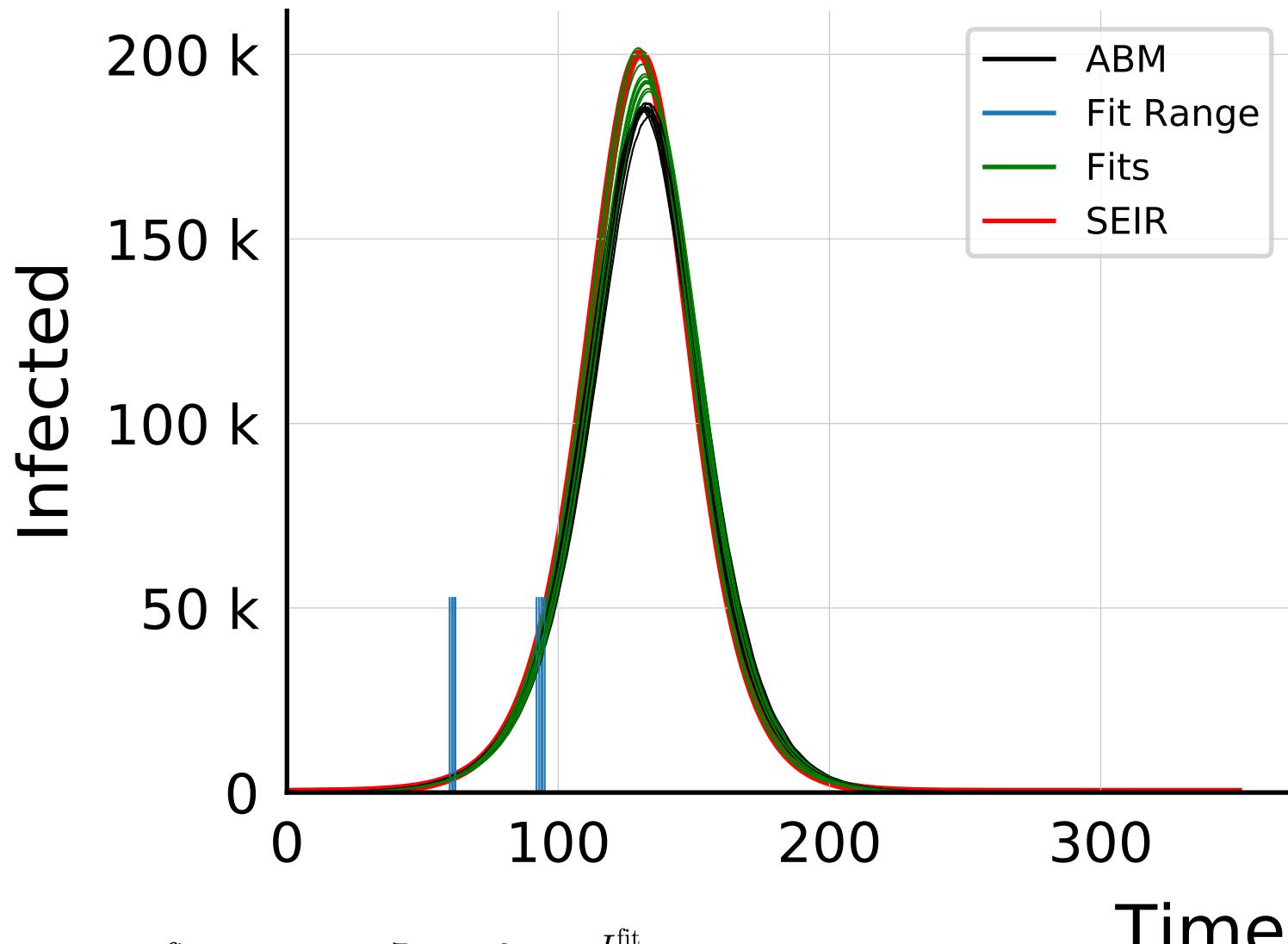


$$I_{\max}^{\text{fit}} = 147^{+3}_{-5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.04 \pm 0.011$$



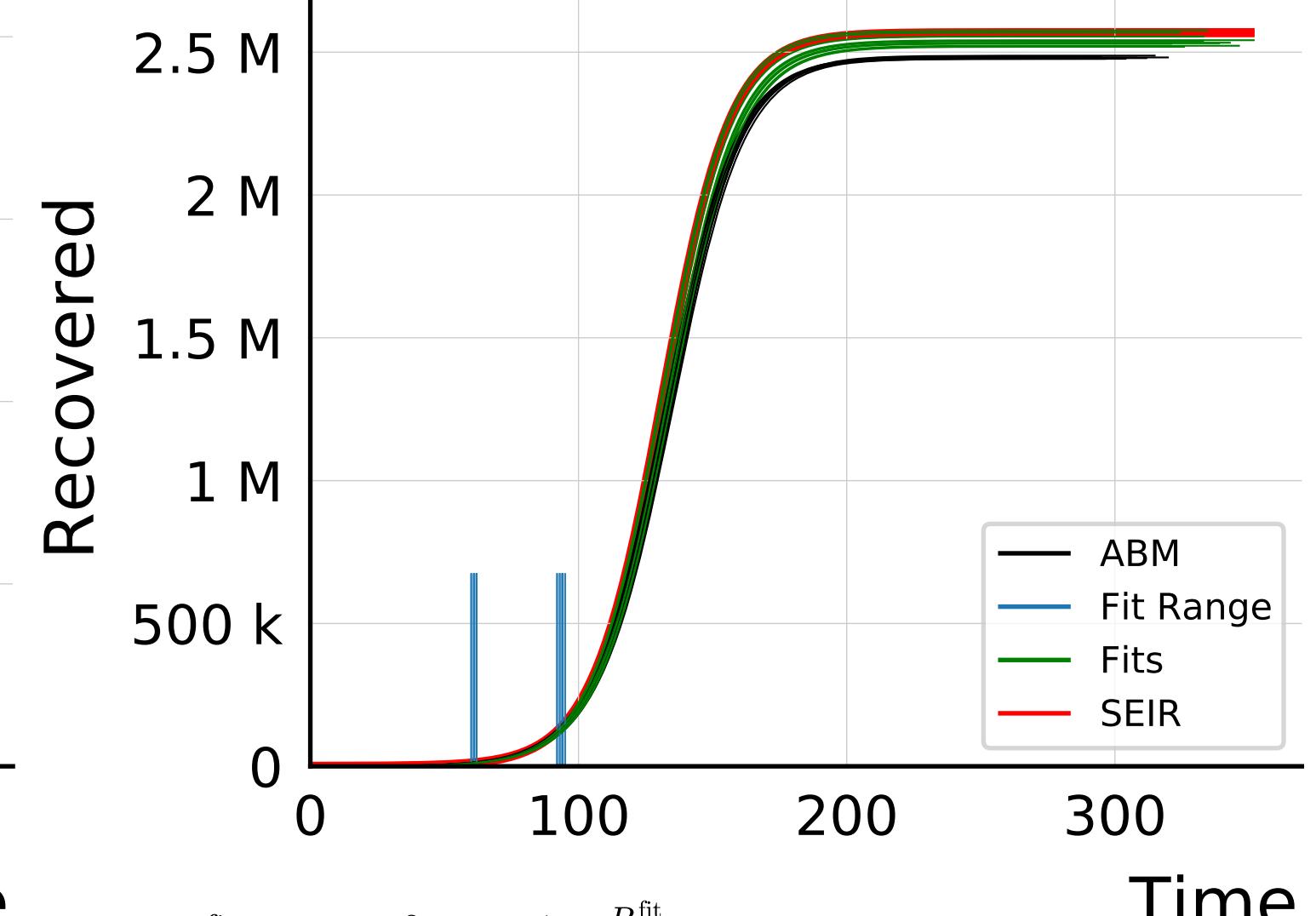
$$R_{\infty}^{\text{fit}} = 191^{+1.5}_{-2} \cdot 10^4 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.023 \pm 0.0039$$

$N_{\text{tot}} = 4M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 193_{-3}^{+7} \cdot 10^3$$

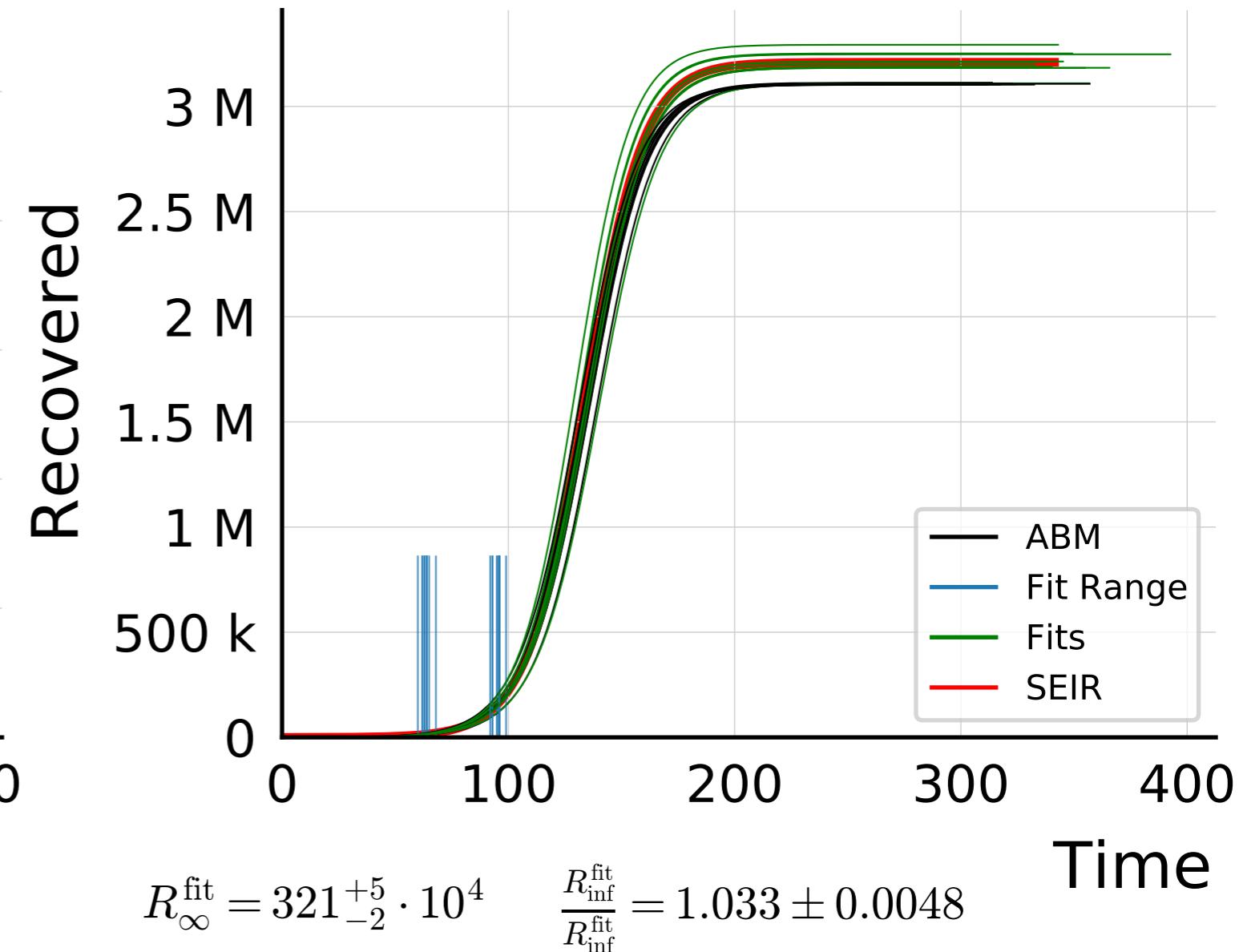
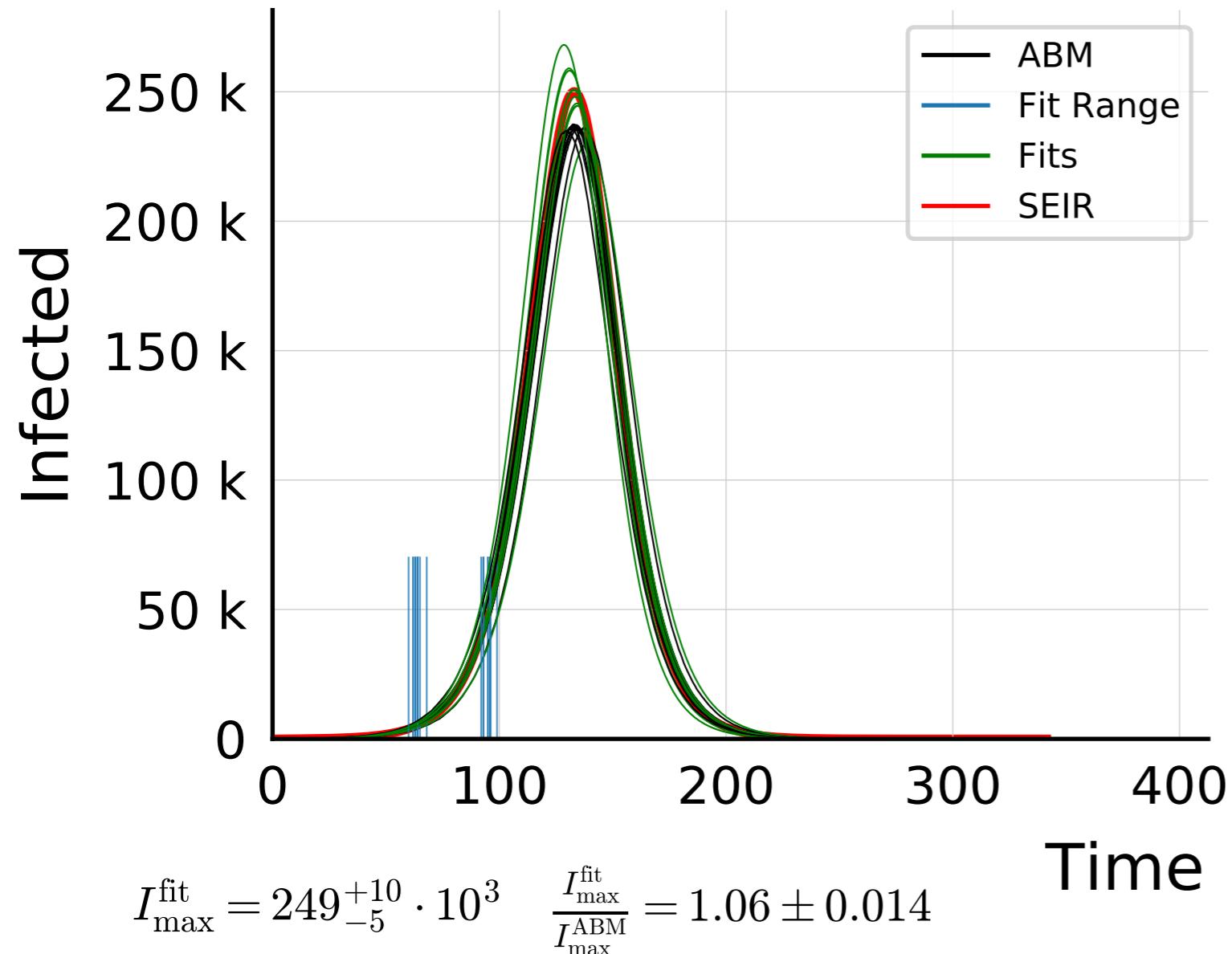
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.049 \pm 0.0066$$



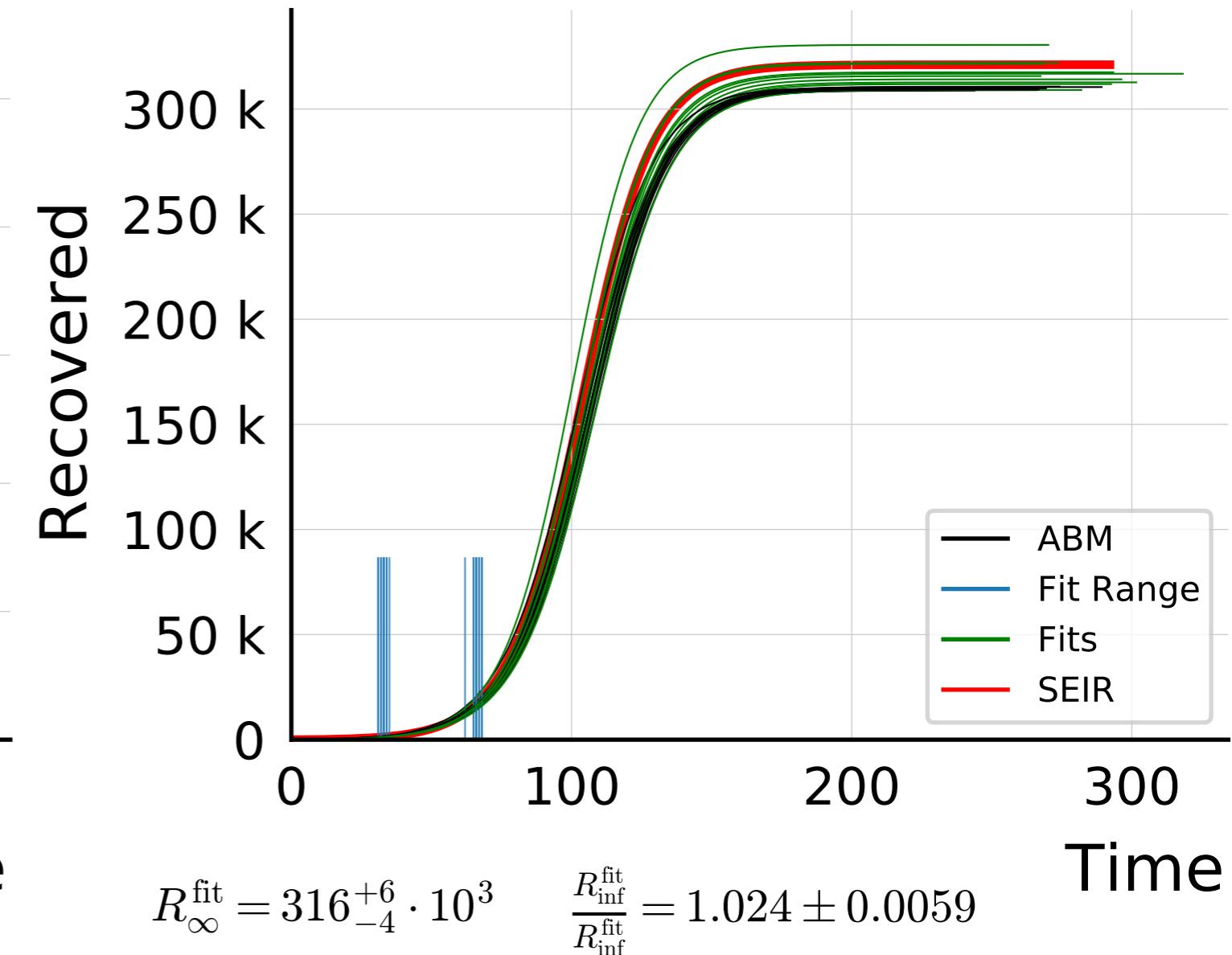
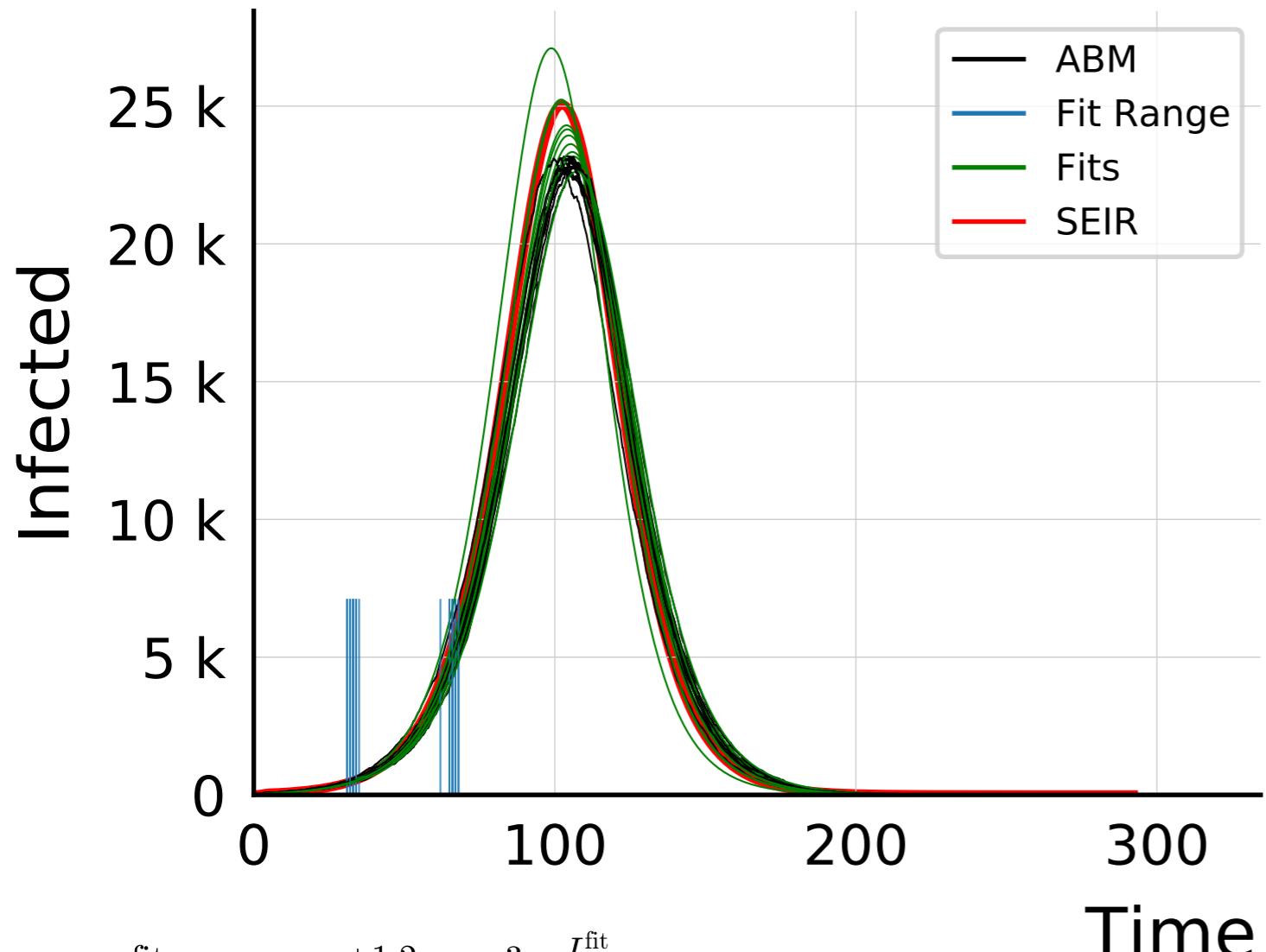
$$R_{\infty}^{\text{fit}} = 254_{-1.3}^{+3} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.025 \pm 0.0024$$

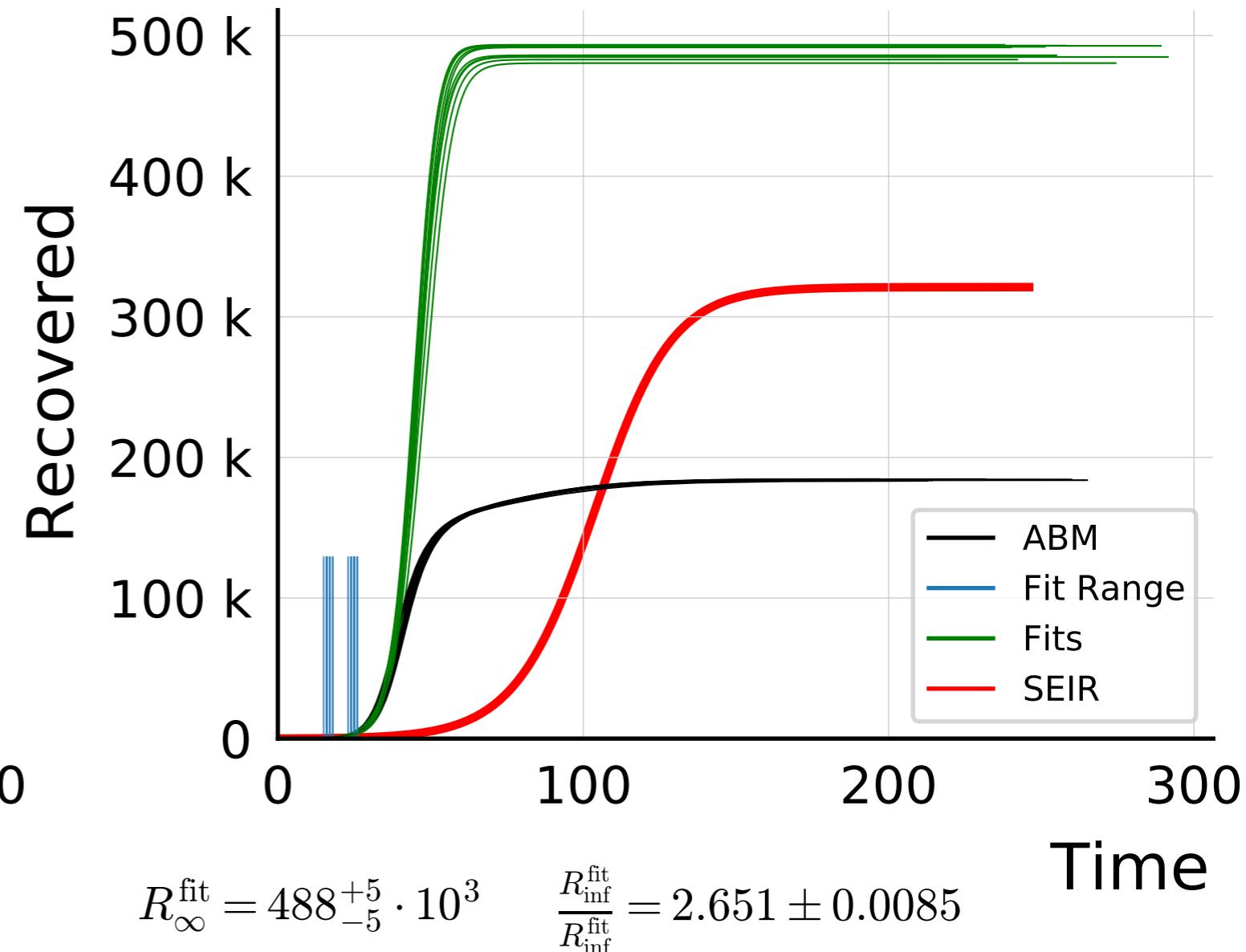
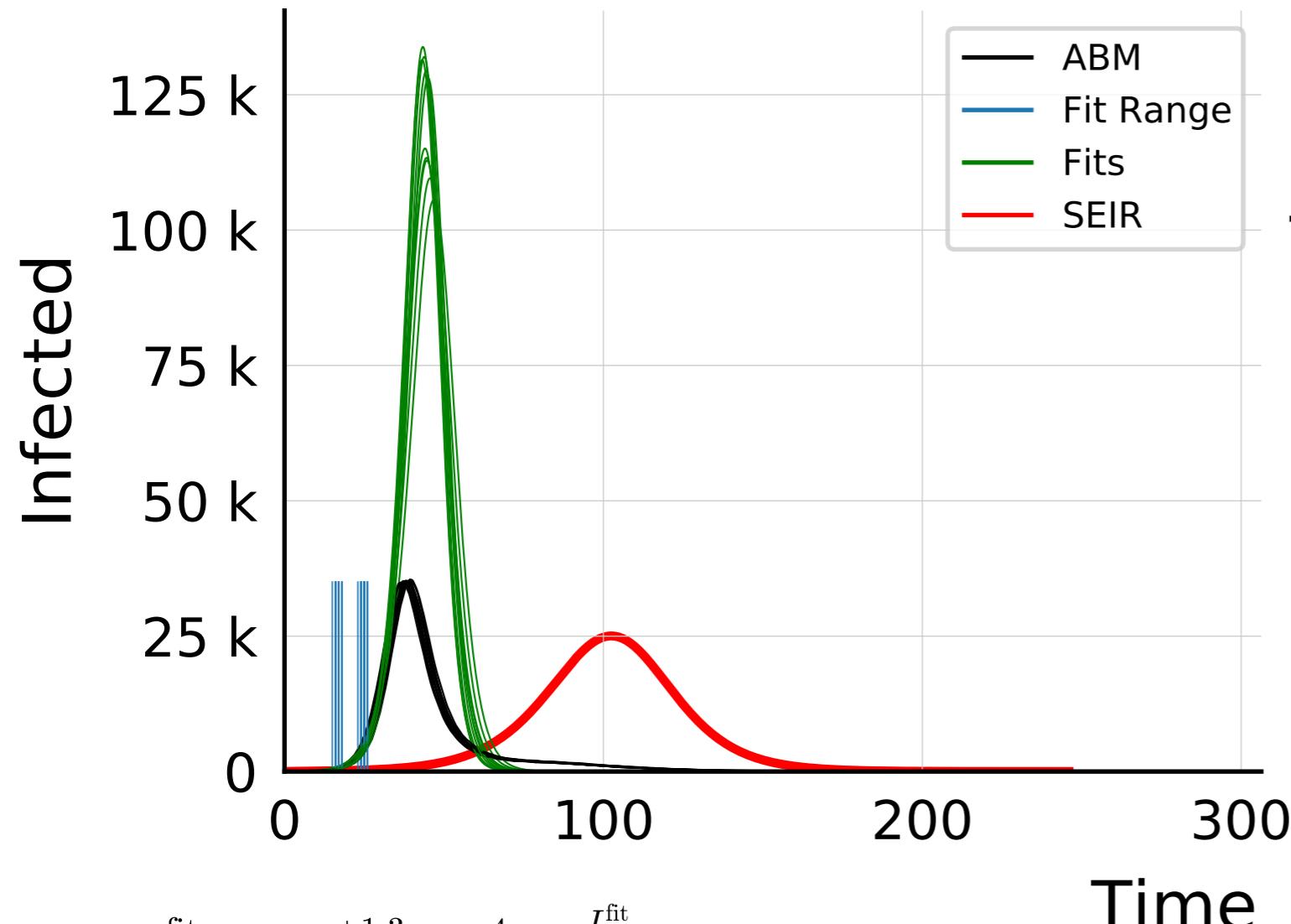
$N_{\text{tot}} = 5M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



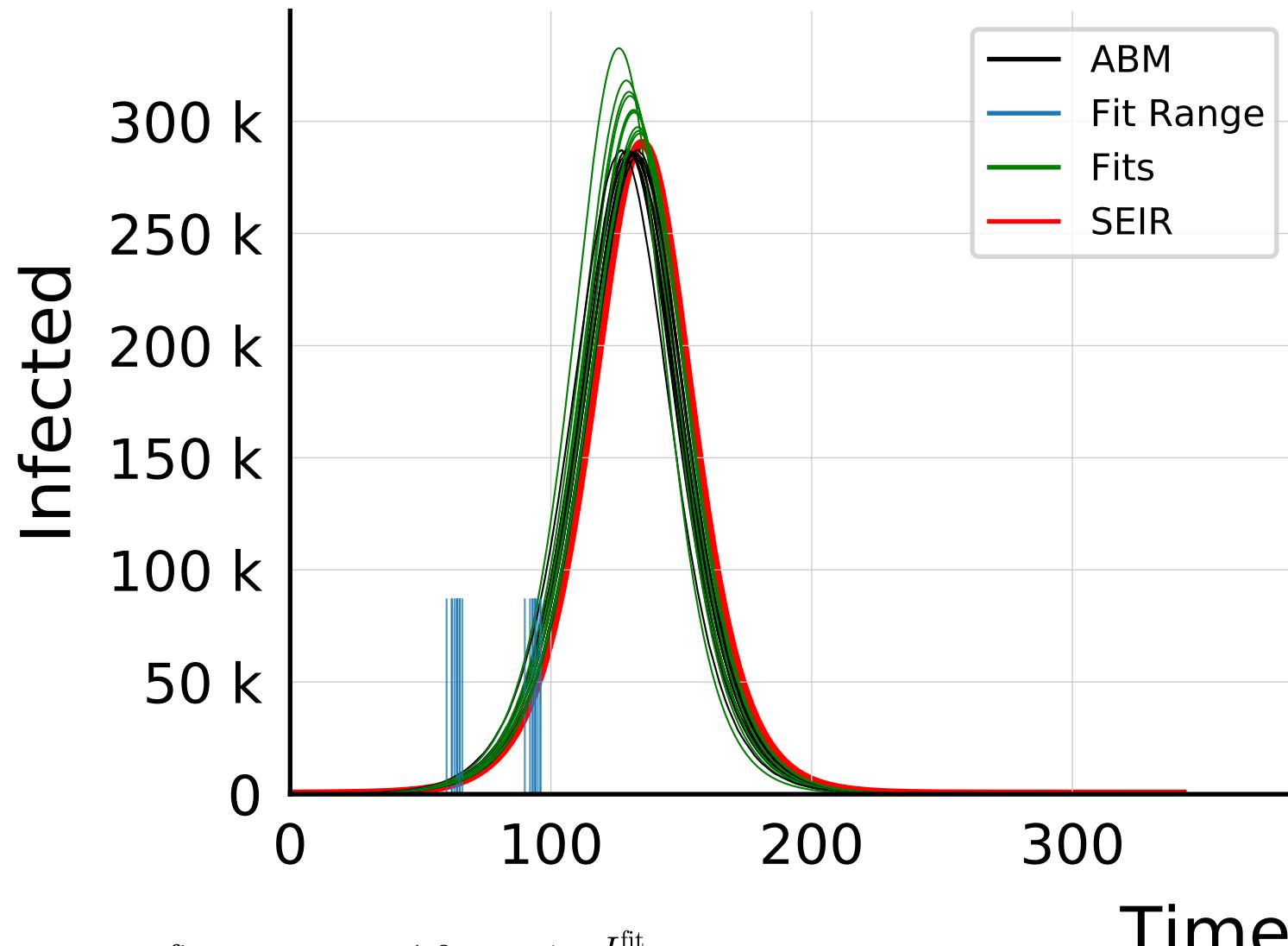
$N_{\text{tot}} = 500K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



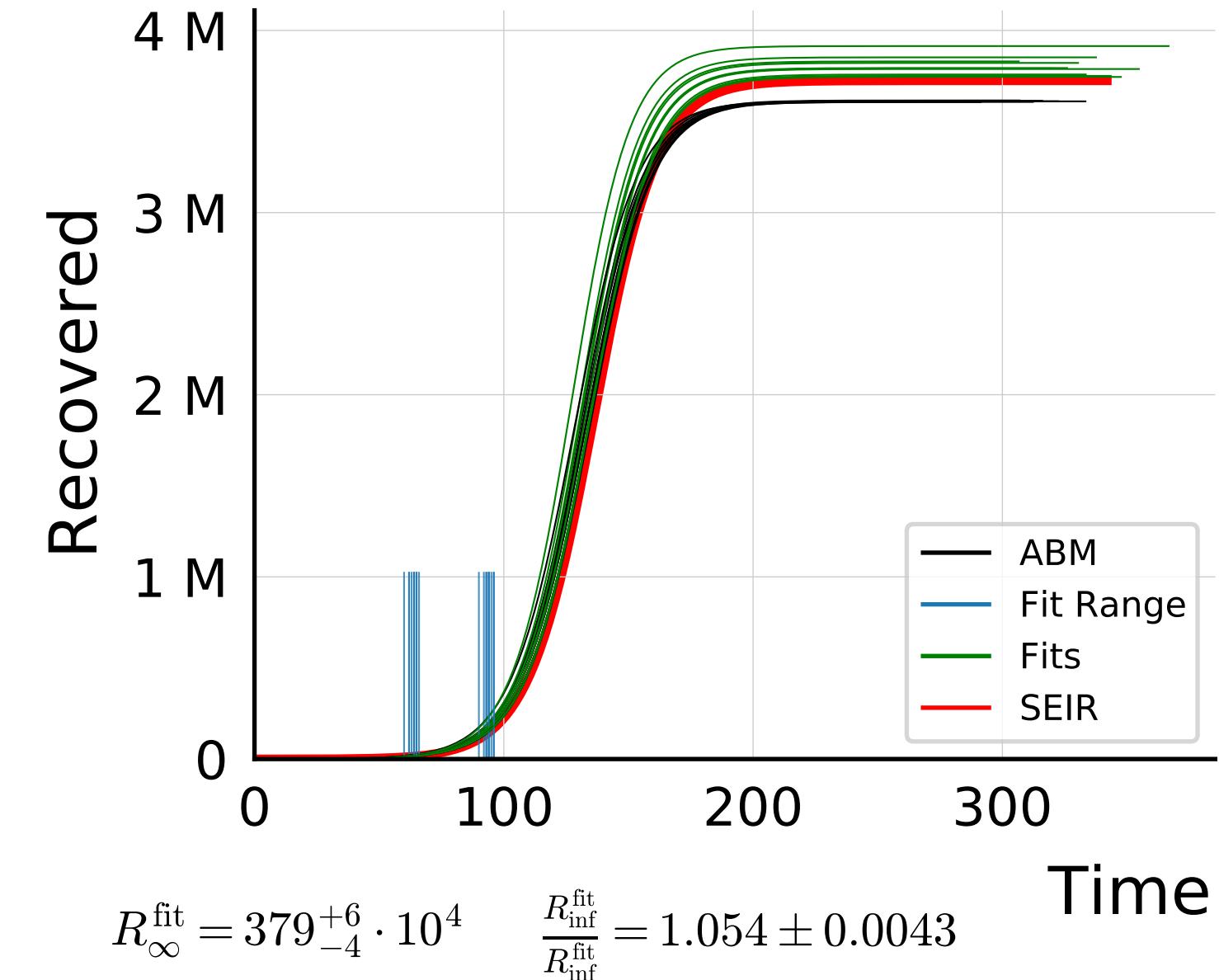
$N_{\text{tot}} = 500K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

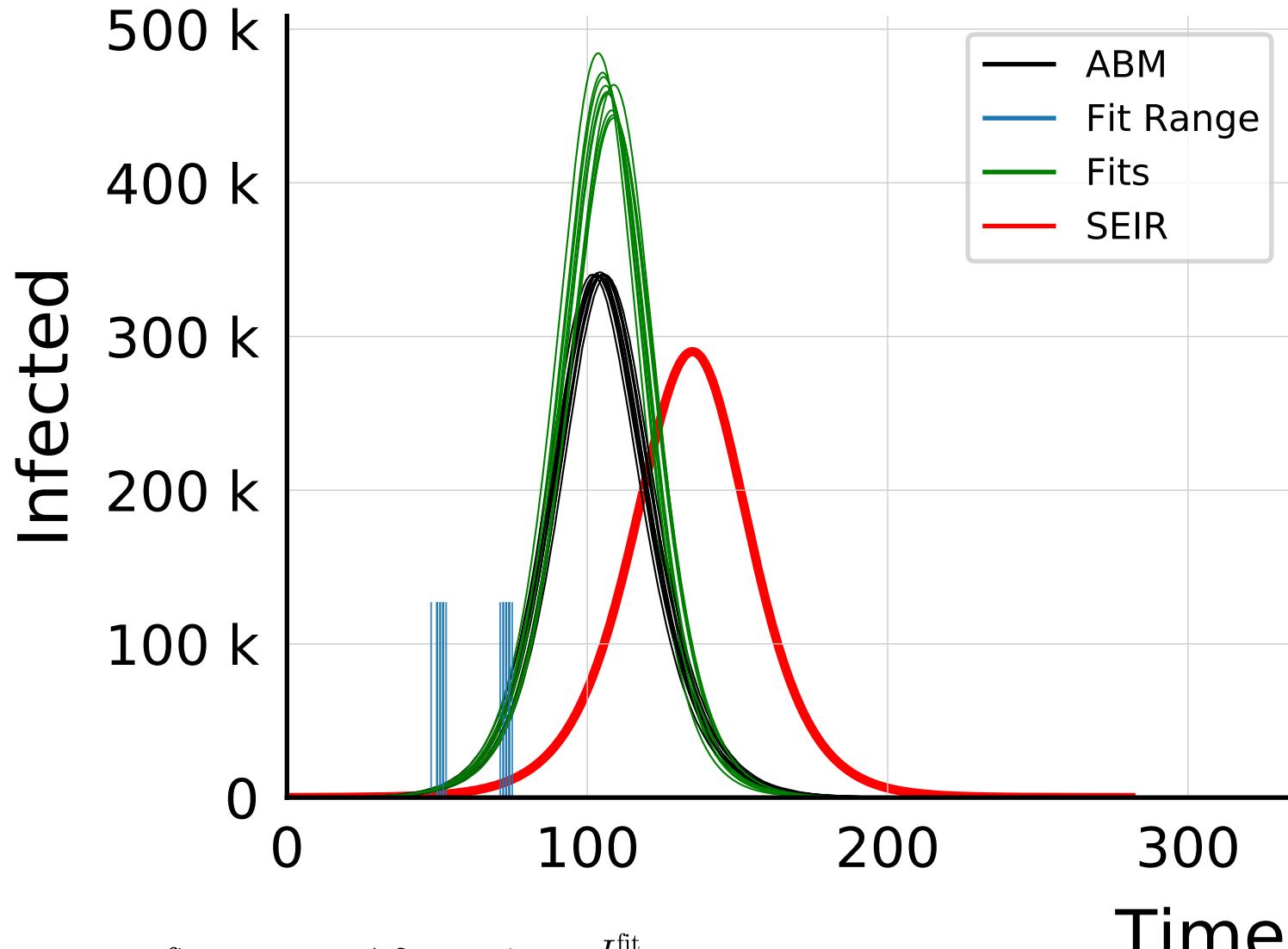


$$I_{\max}^{\text{fit}} = 30.5^{+1.3}_{-0.9} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.08 \pm 0.012$$

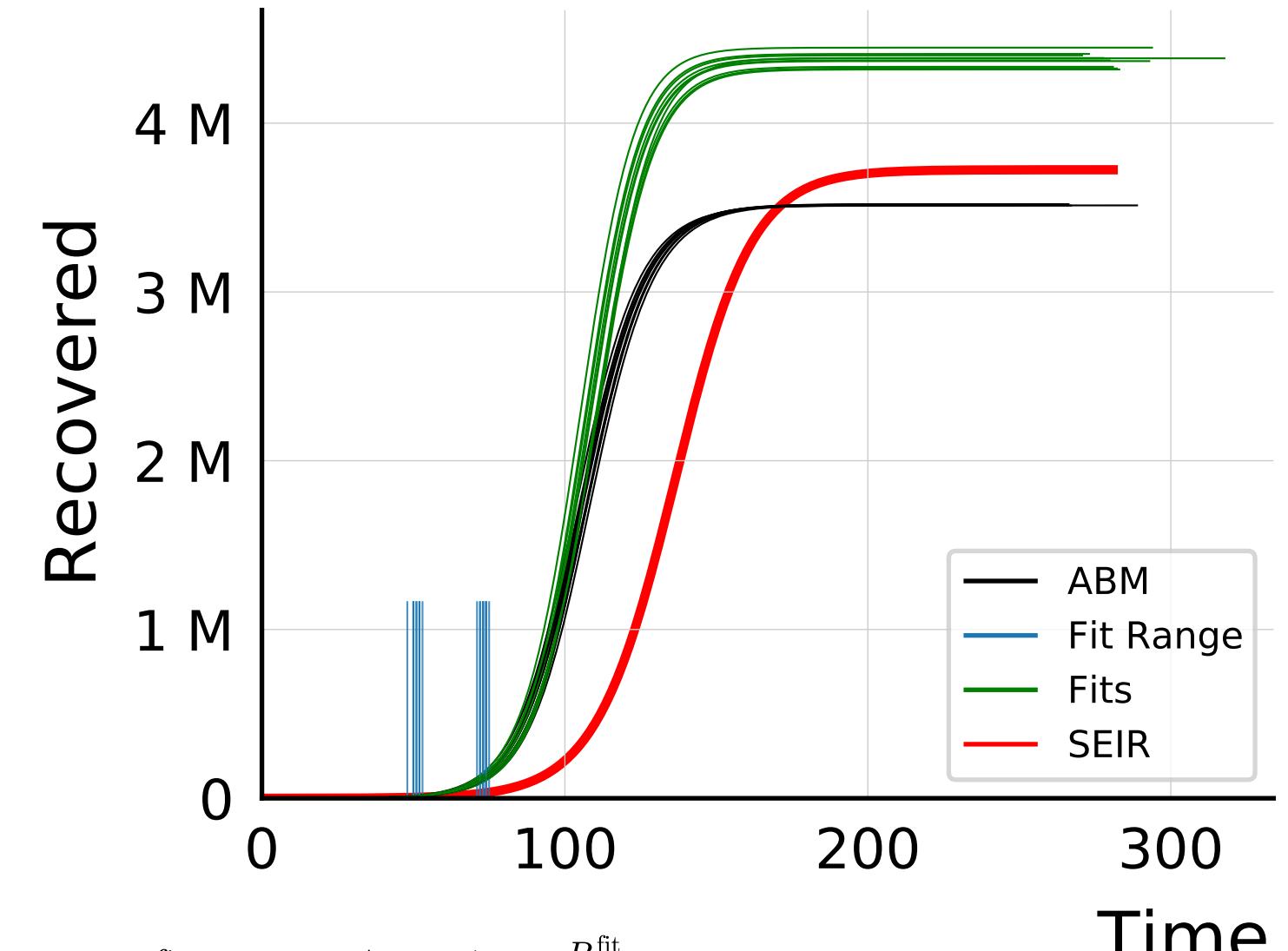


$$R_{\infty}^{\text{fit}} = 379^{+6}_{-4} \cdot 10^4 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.054 \pm 0.0043$$

$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

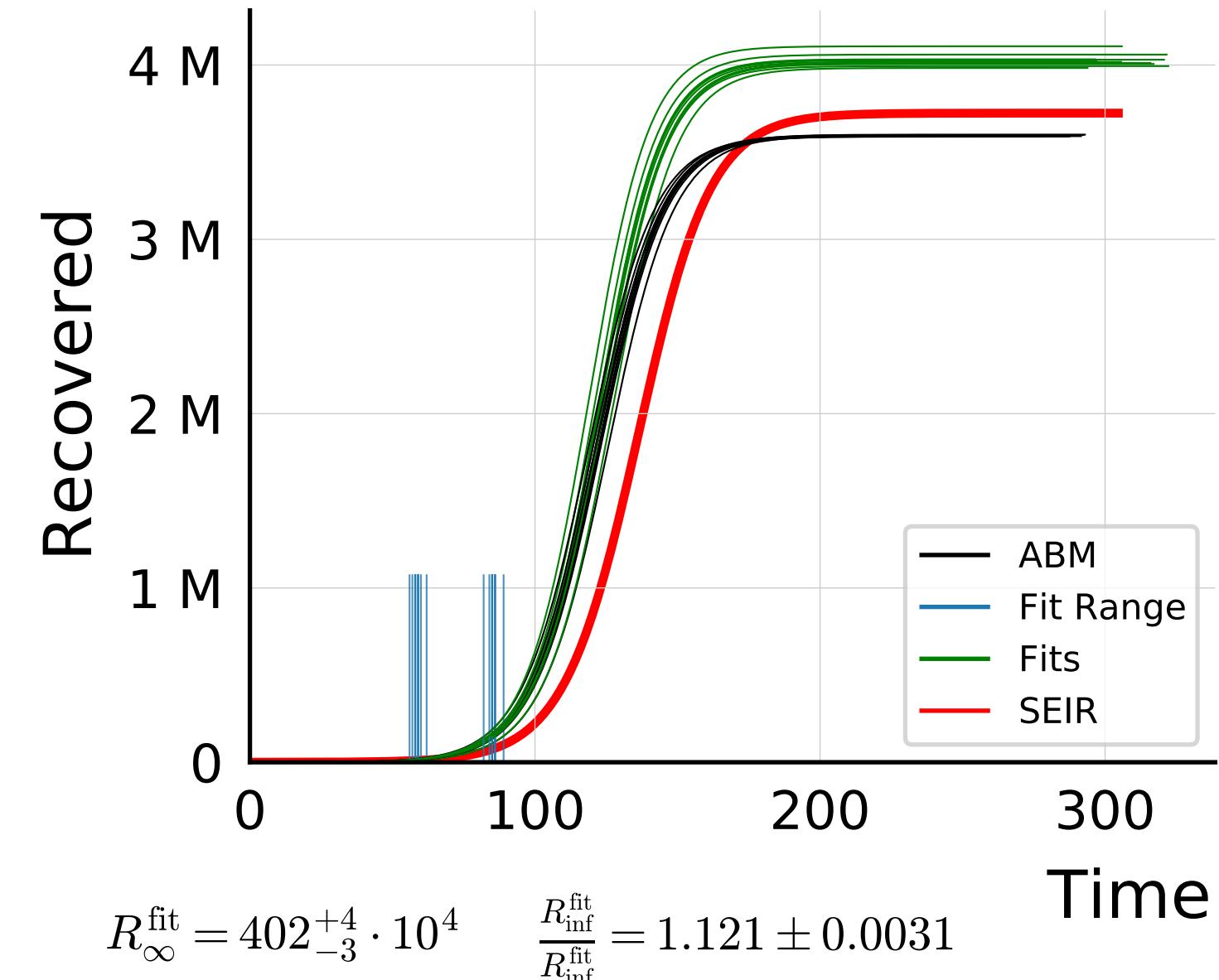
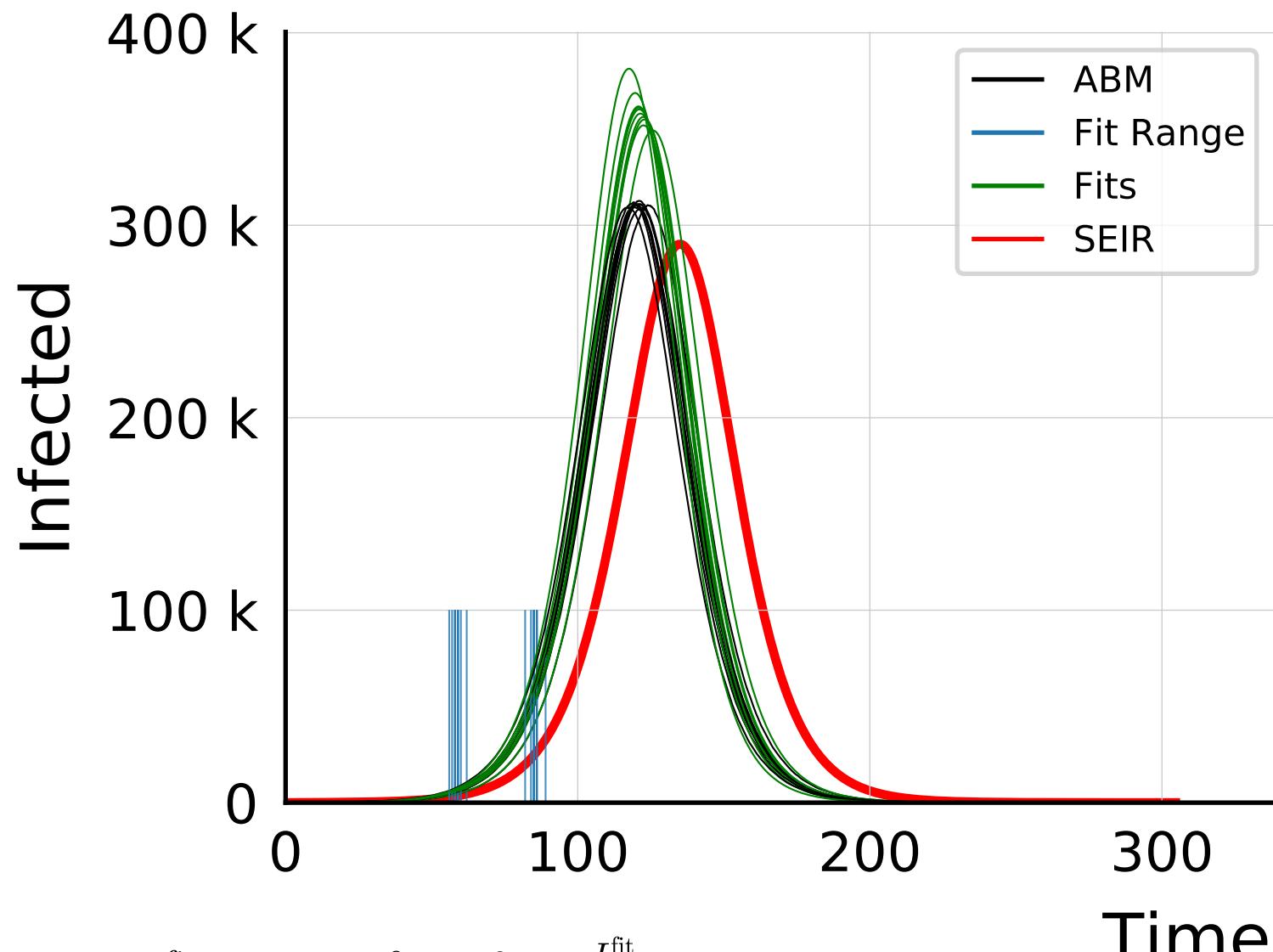


$$I_{\max}^{\text{fit}} = 46^{+1.2}_{-1.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.35 \pm 0.012$$

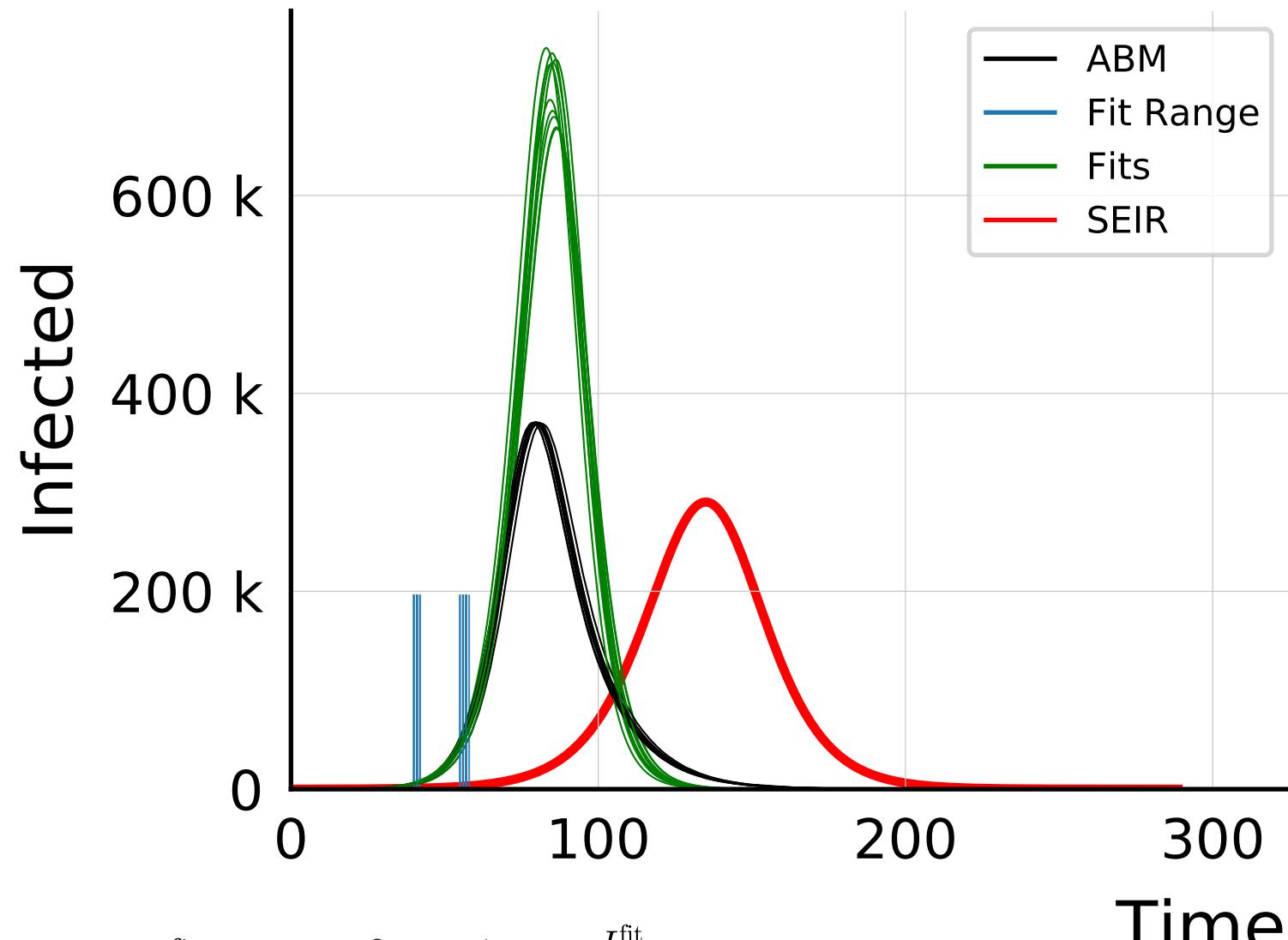


$$R_{\infty}^{\text{fit}} = 437^{+4}_{-5} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.244 \pm 0.0036$$

$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

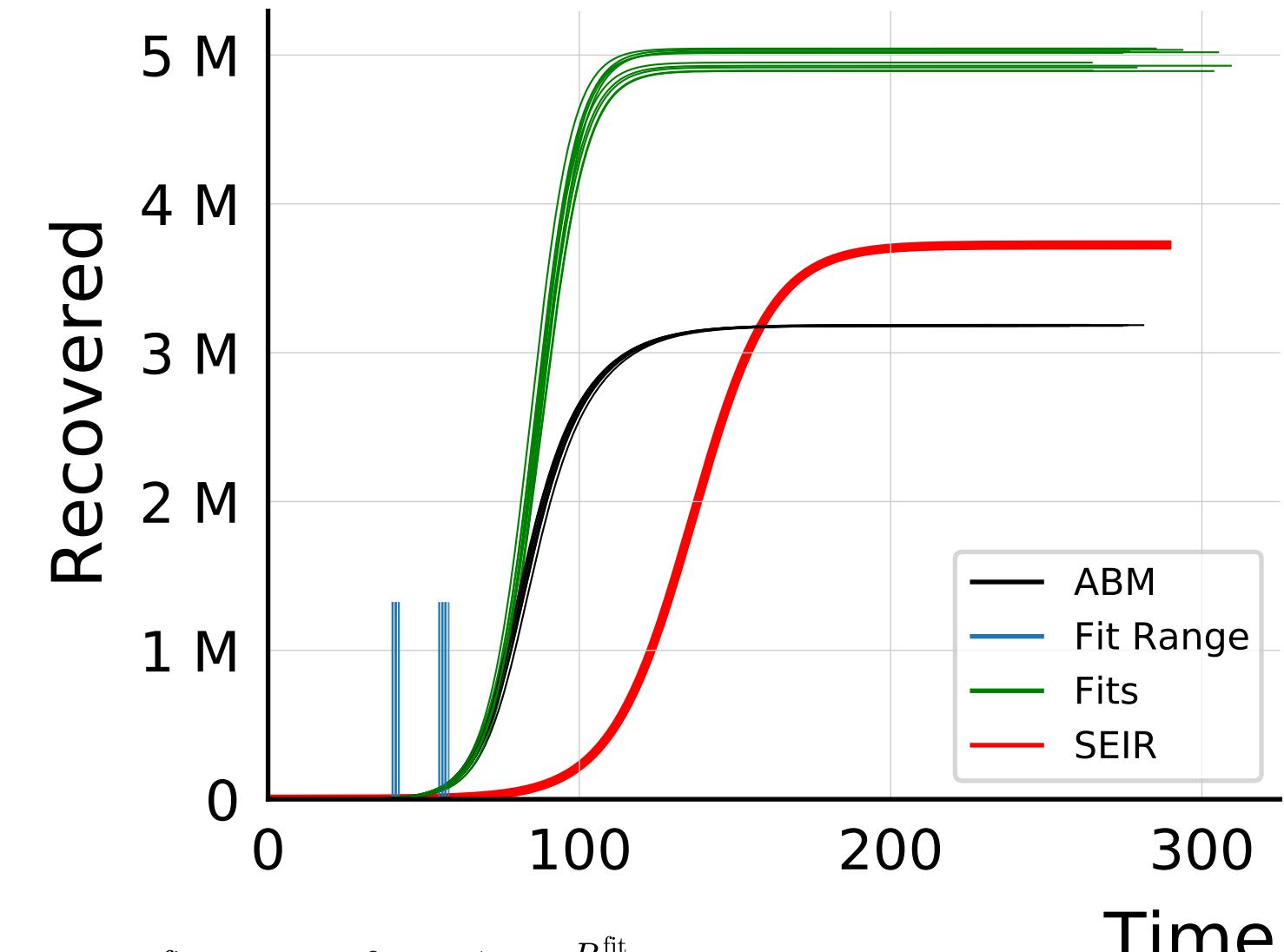


$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\text{max}}^{\text{fit}} = 71_{-4}^{+3} \cdot 10^4$$

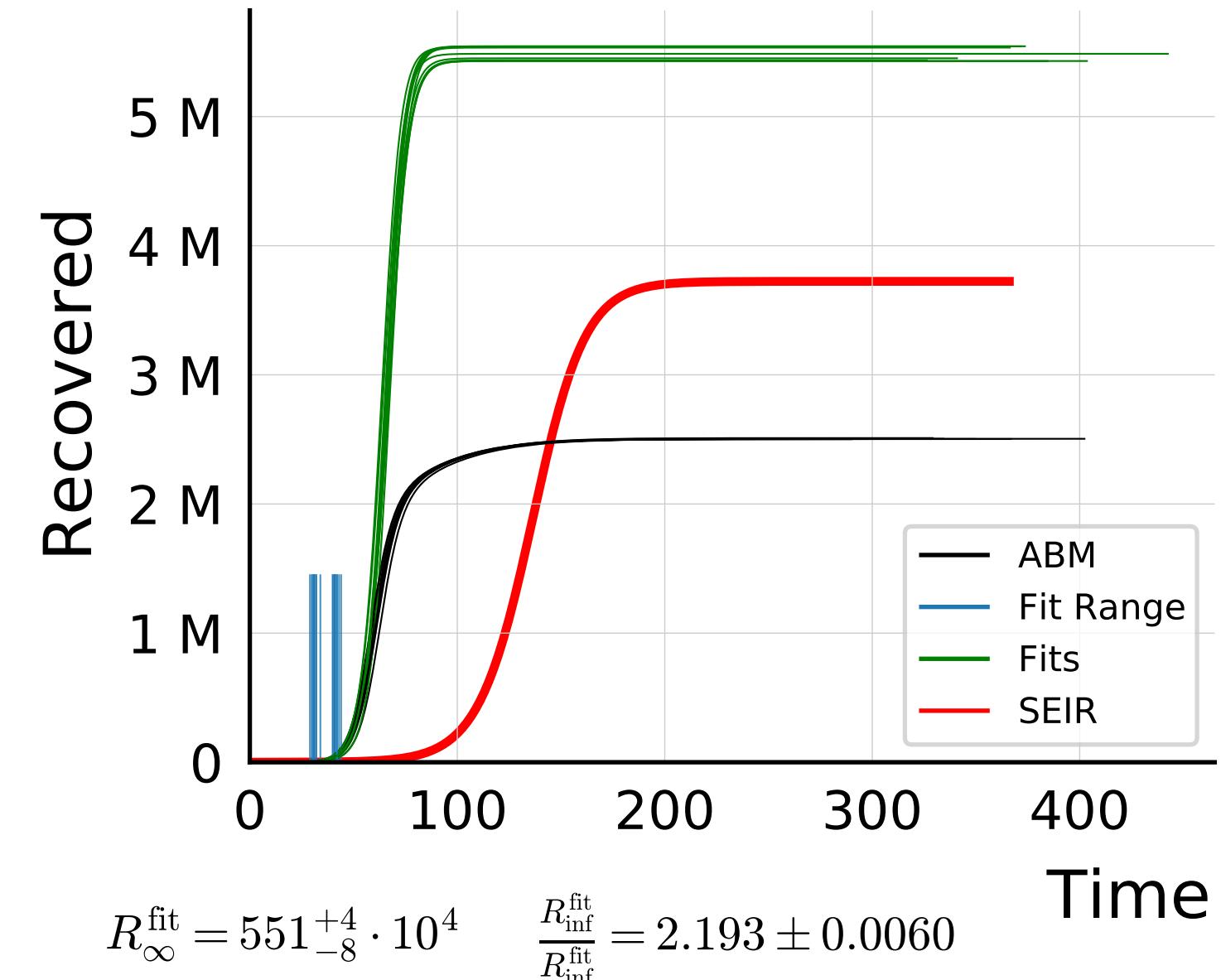
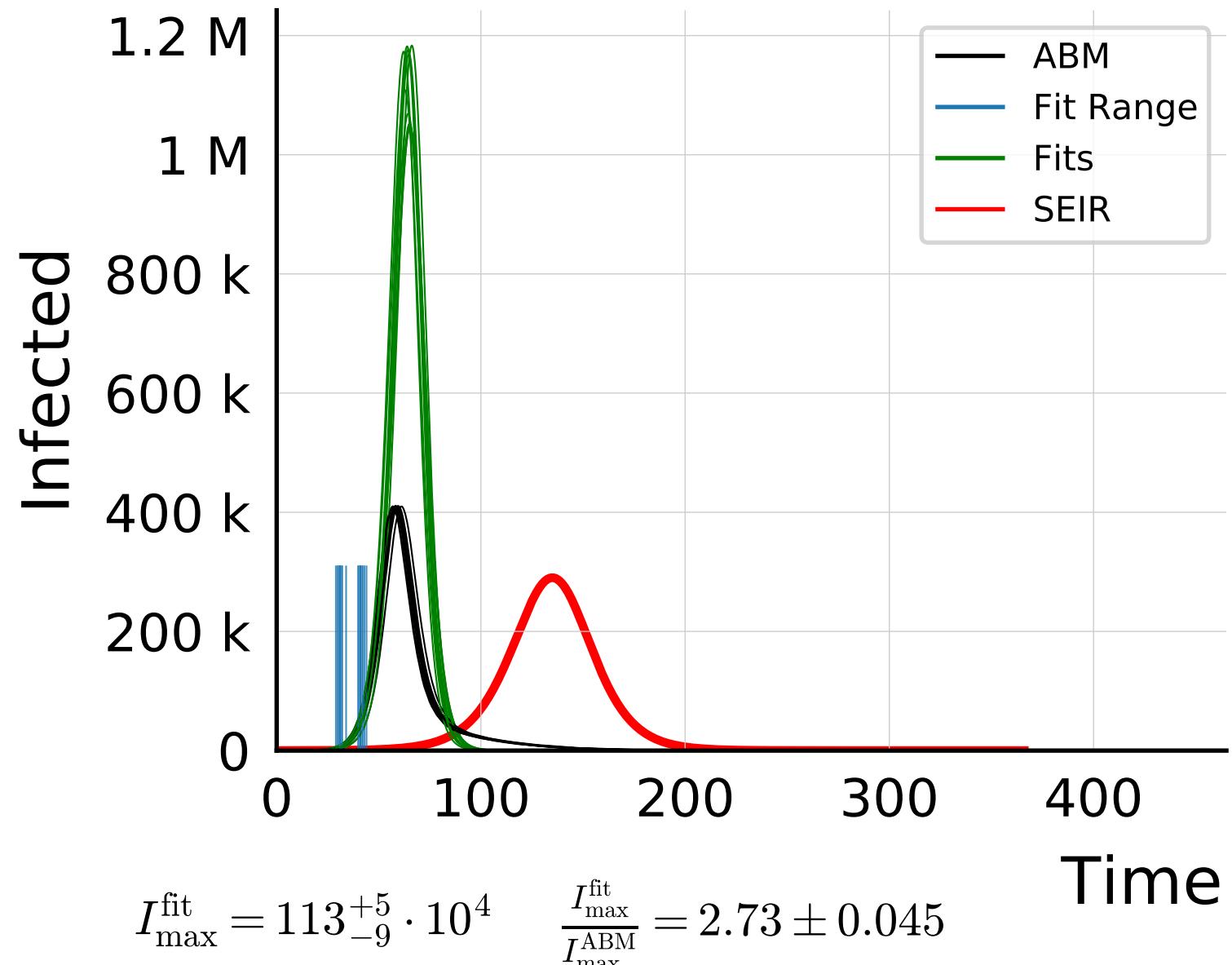
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.92 \pm 0.027$$



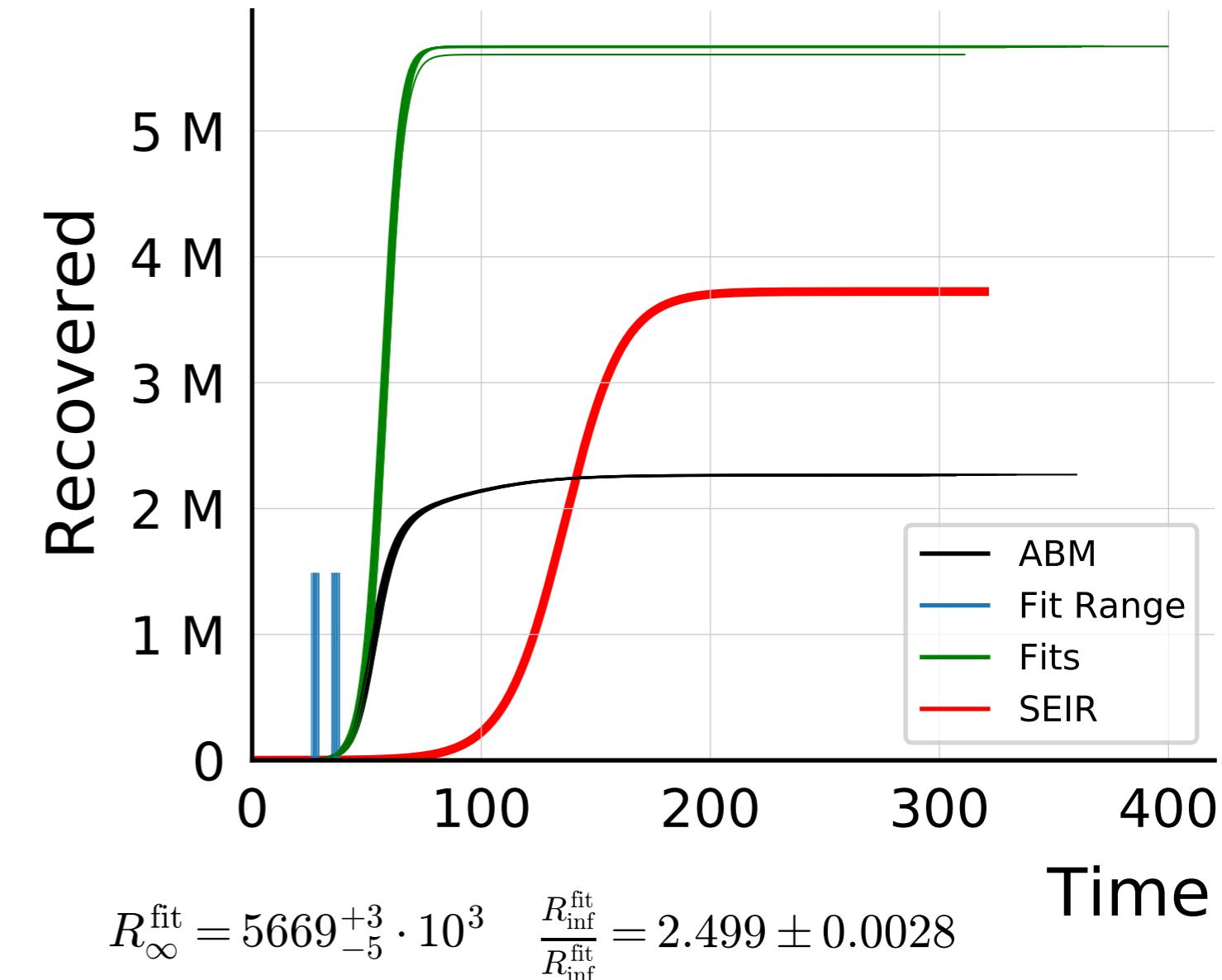
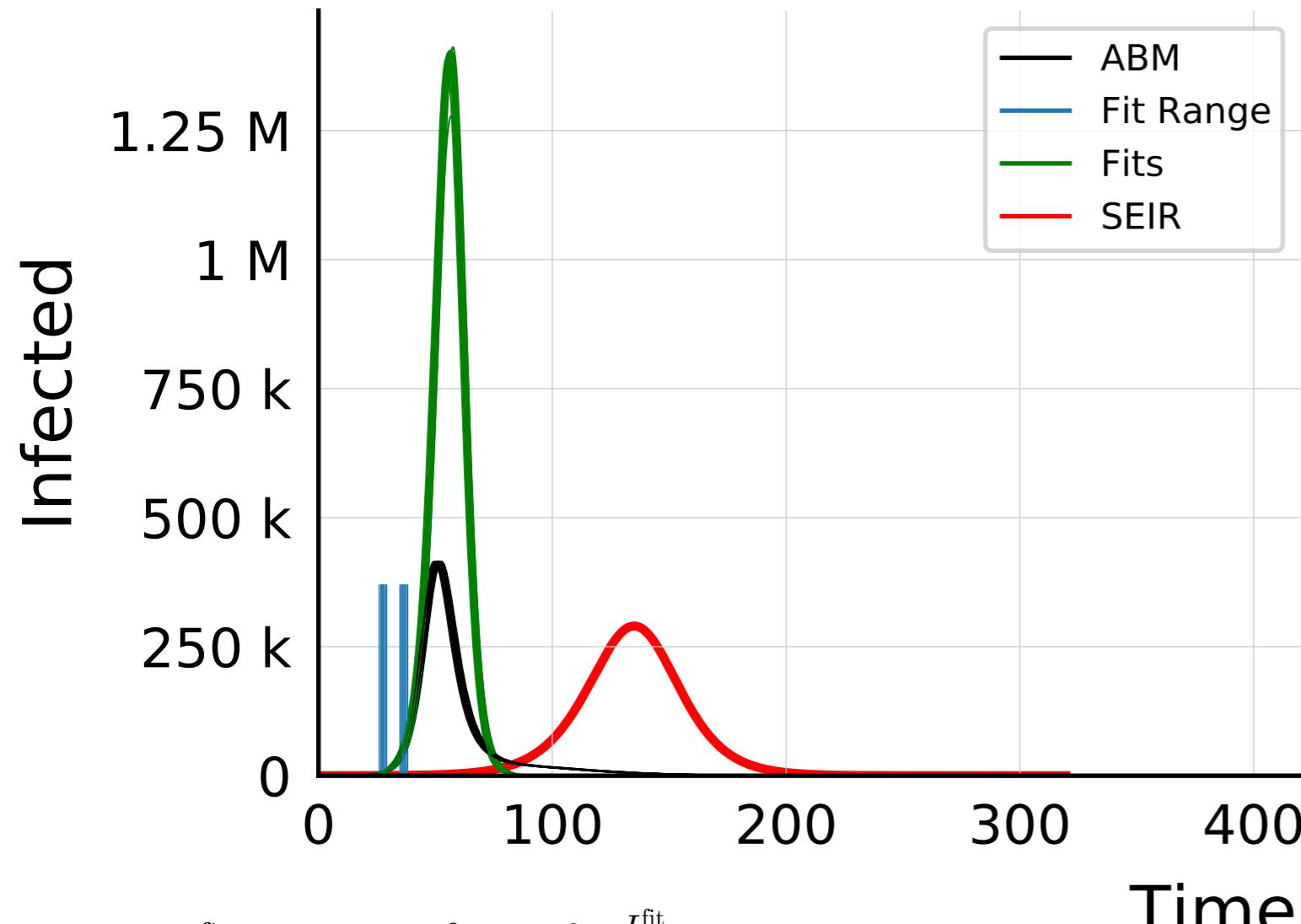
$$R_{\infty}^{\text{fit}} = 497_{-8}^{+6} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.562 \pm 0.0059$$

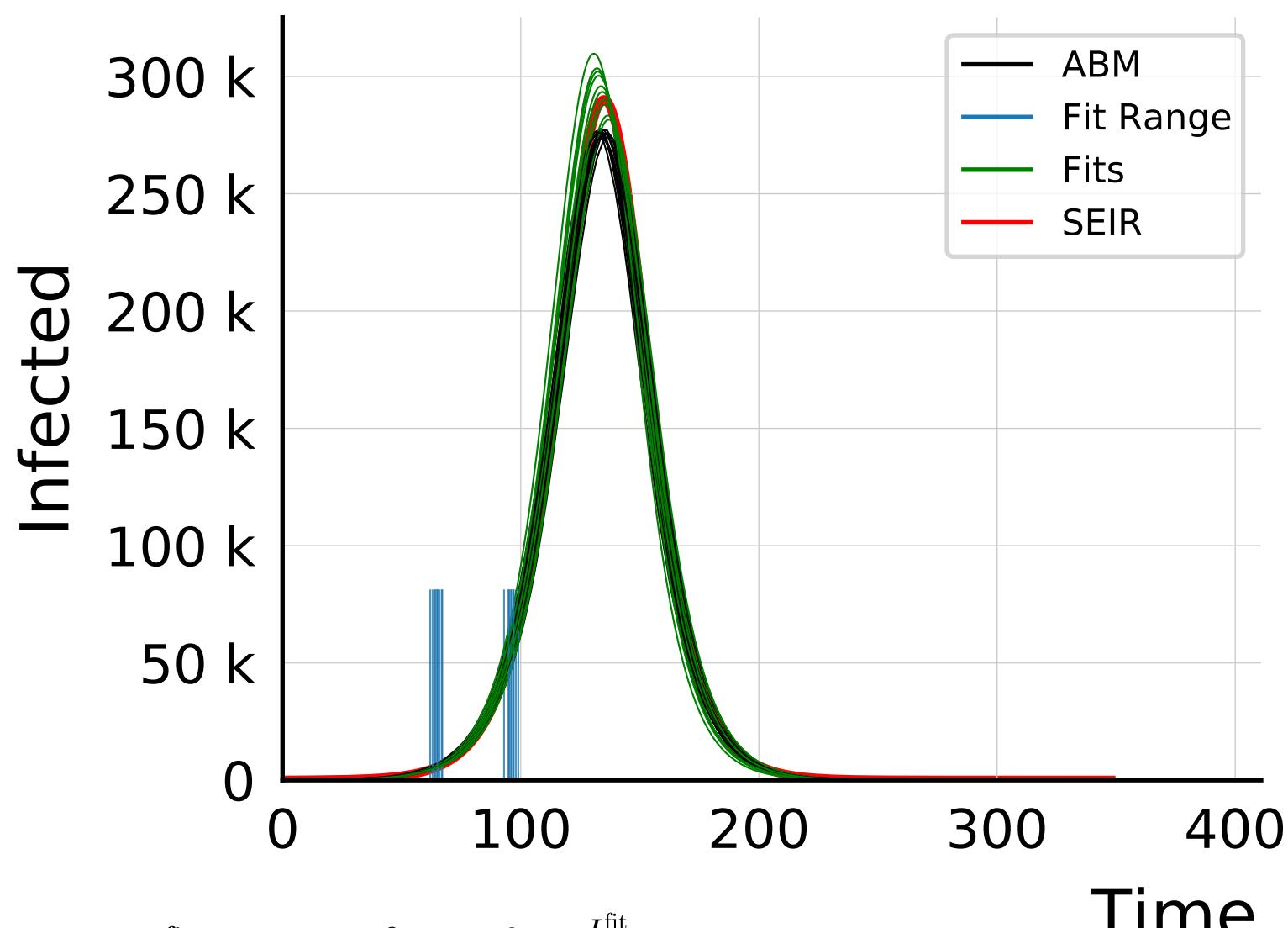
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



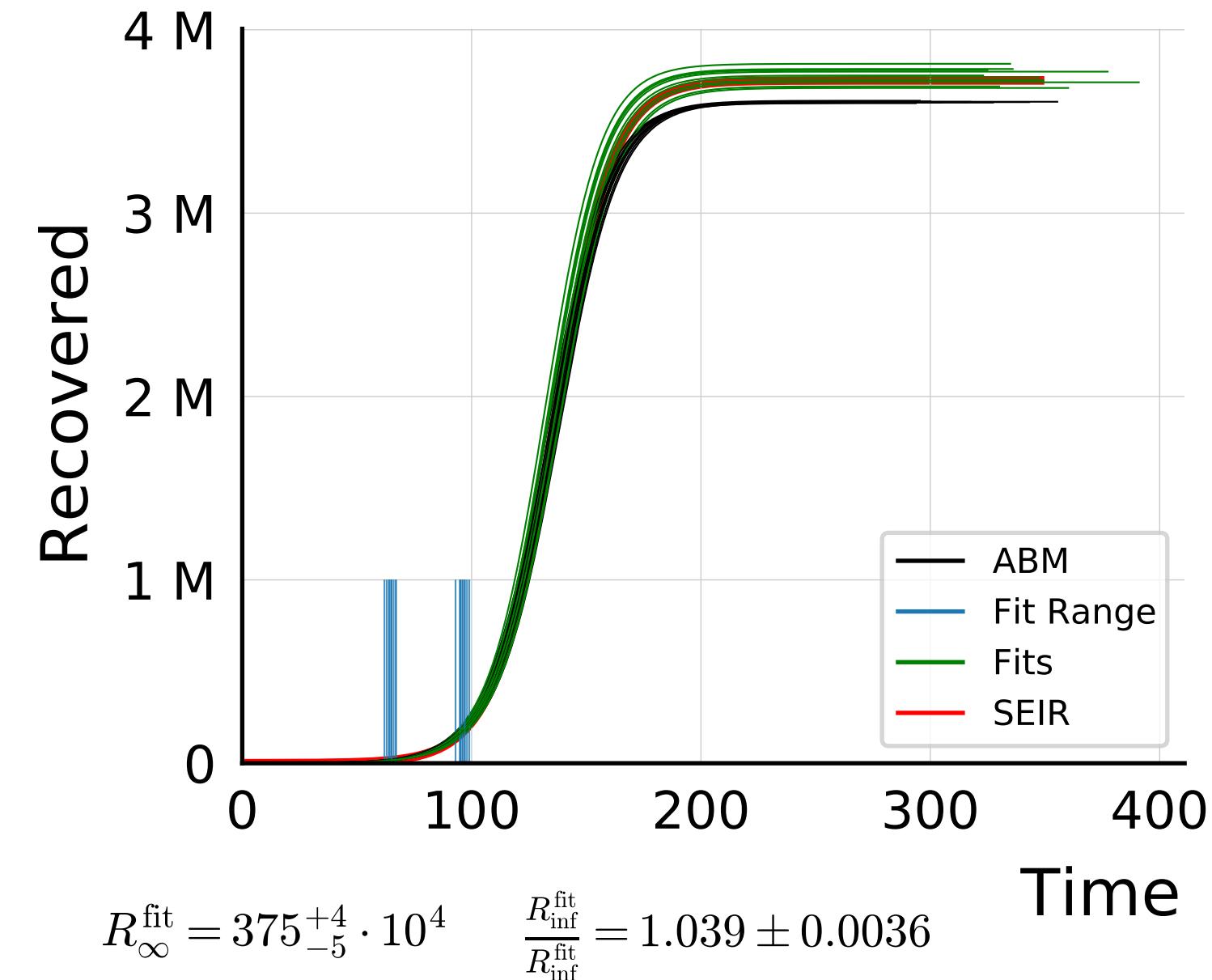
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

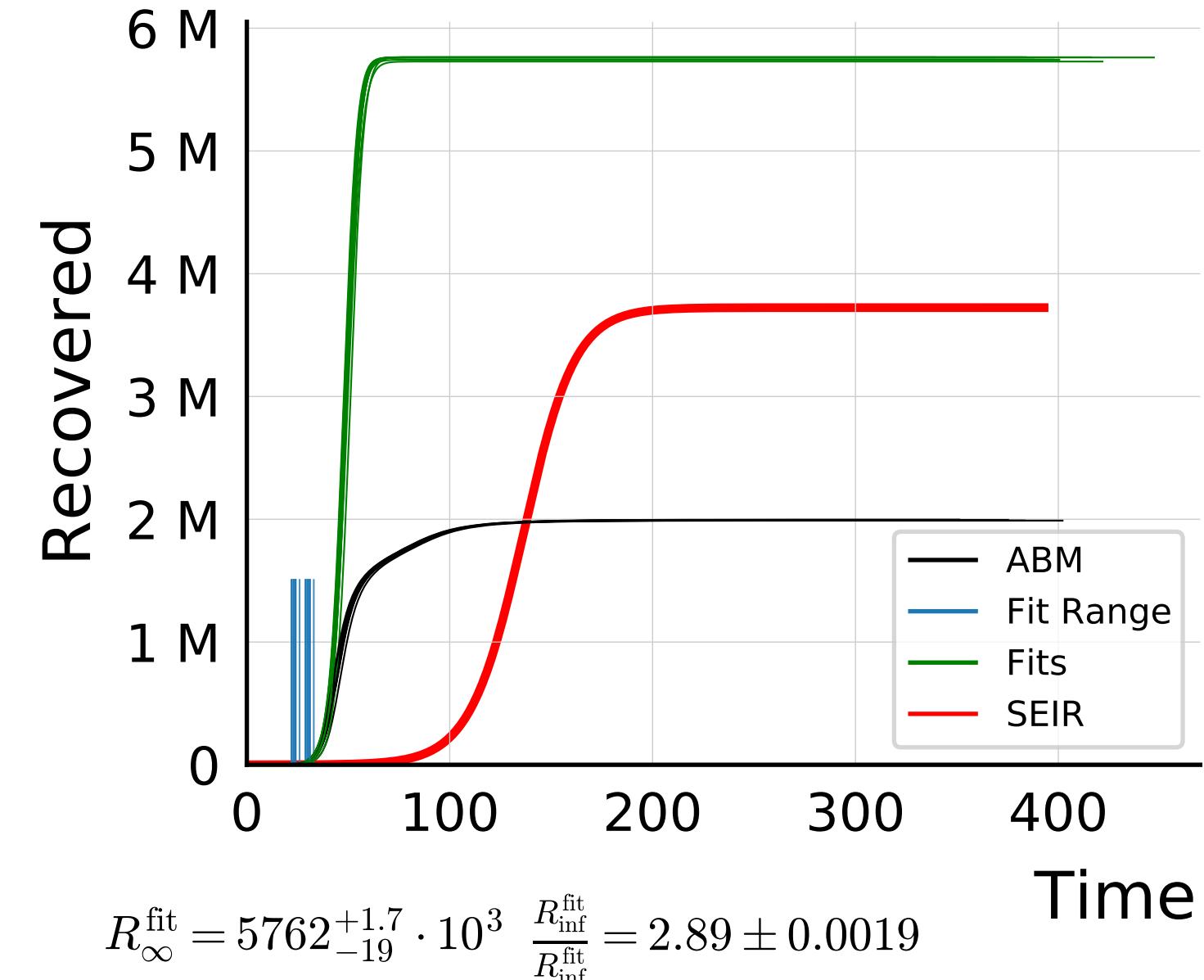
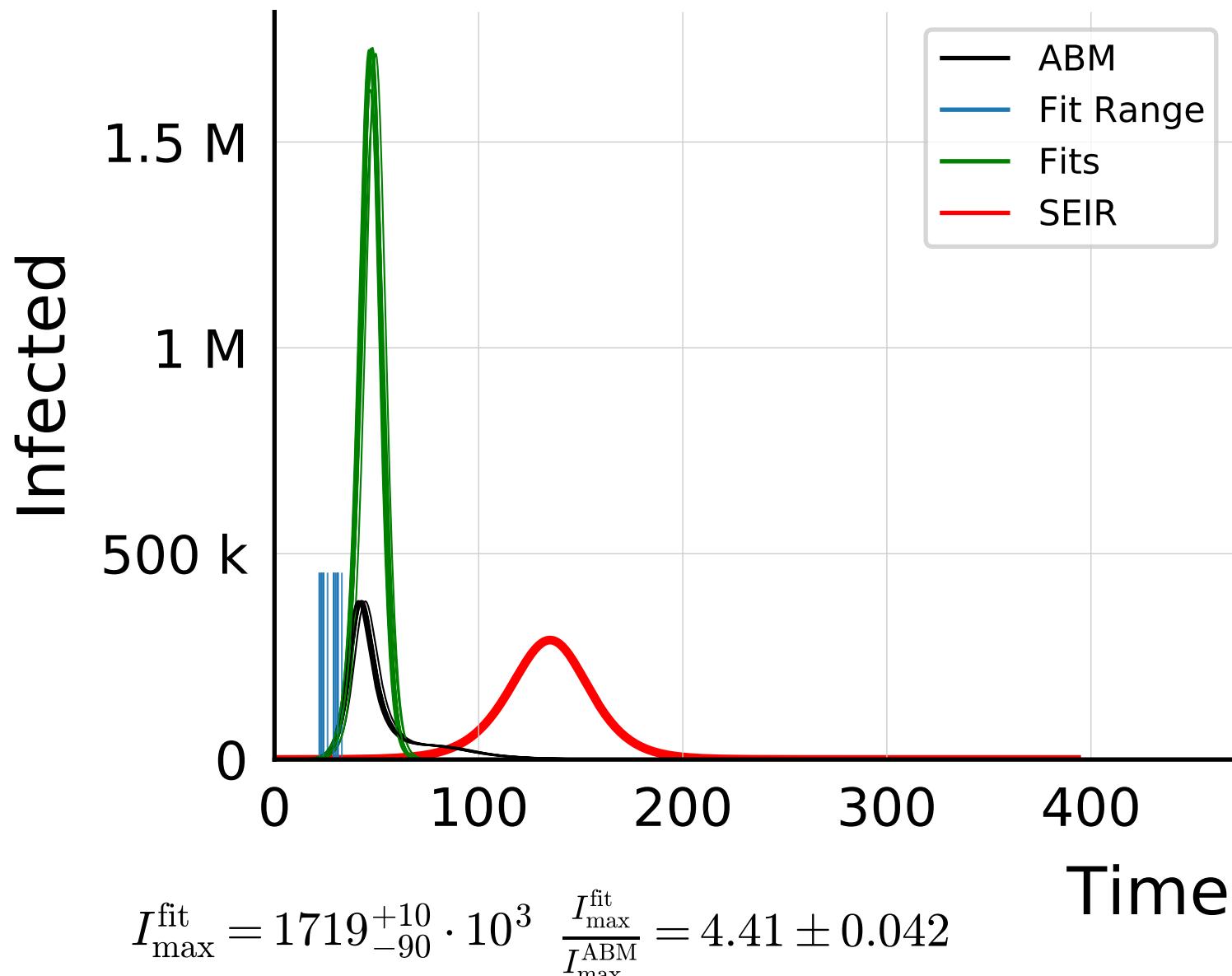


$$I_{\max}^{\text{fit}} = 295_{-11}^{+9} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.069 \pm 0.0100$$

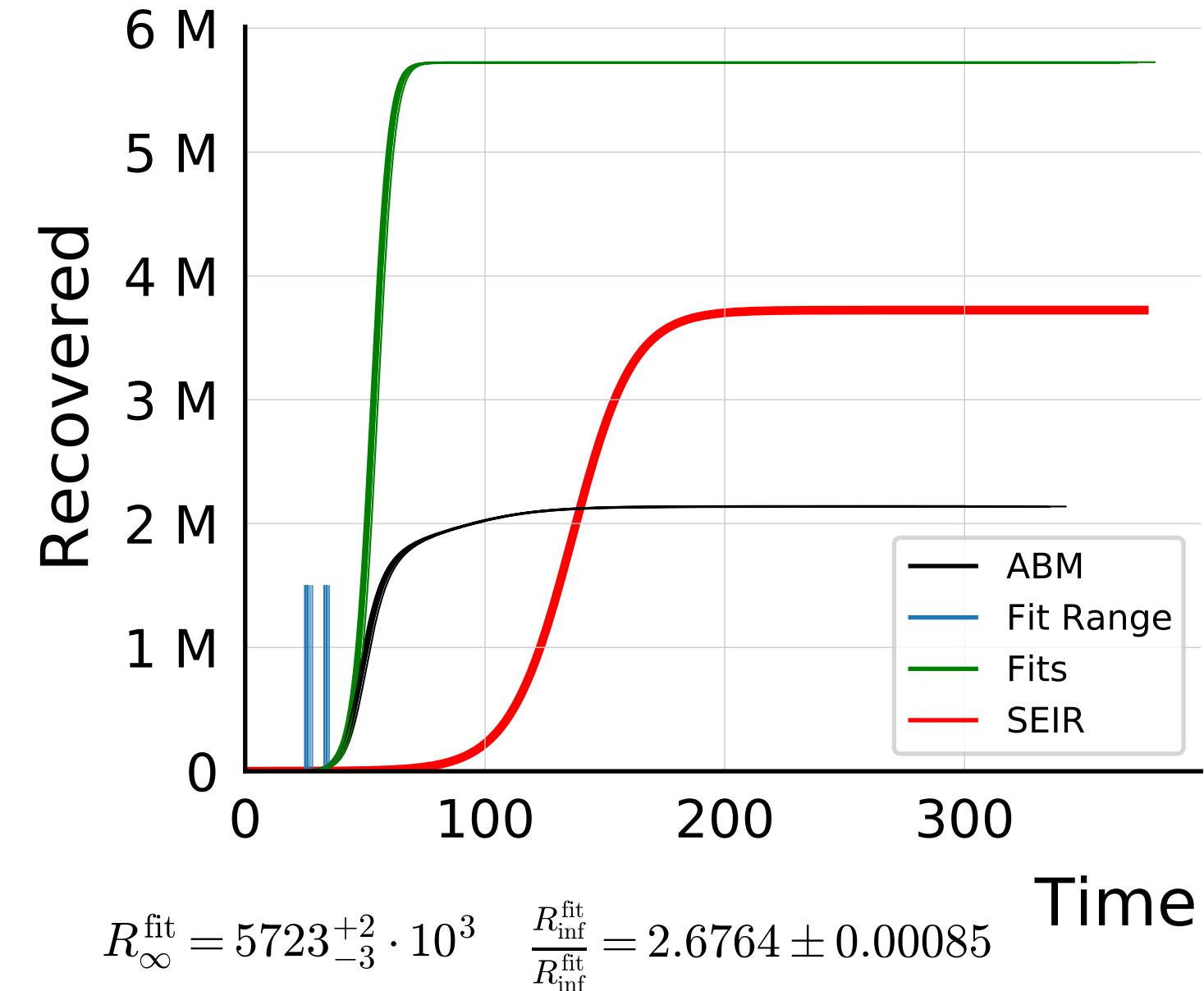
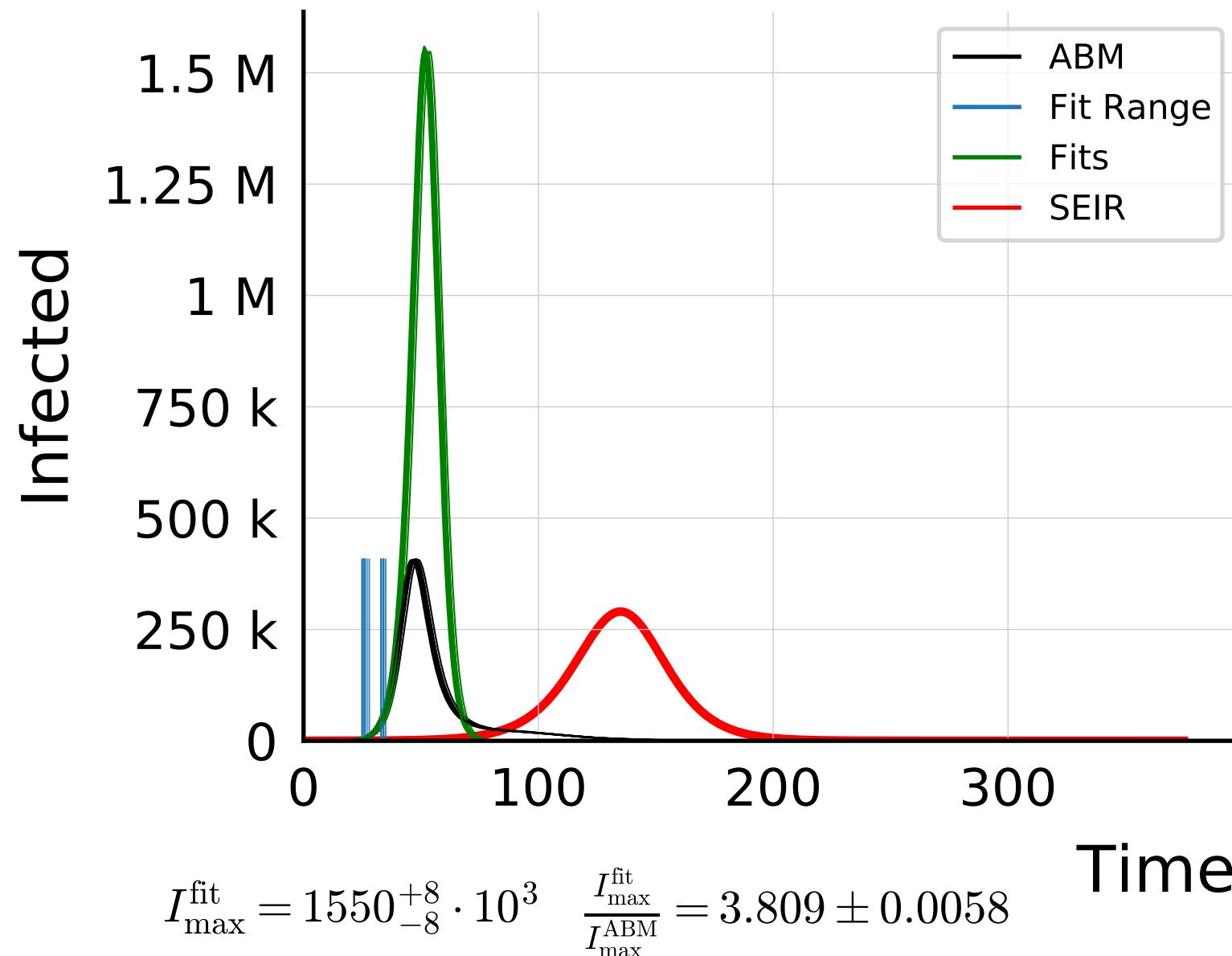


$$R_{\infty}^{\text{fit}} = 375_{-5}^{+4} \cdot 10^4 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.039 \pm 0.0036$$

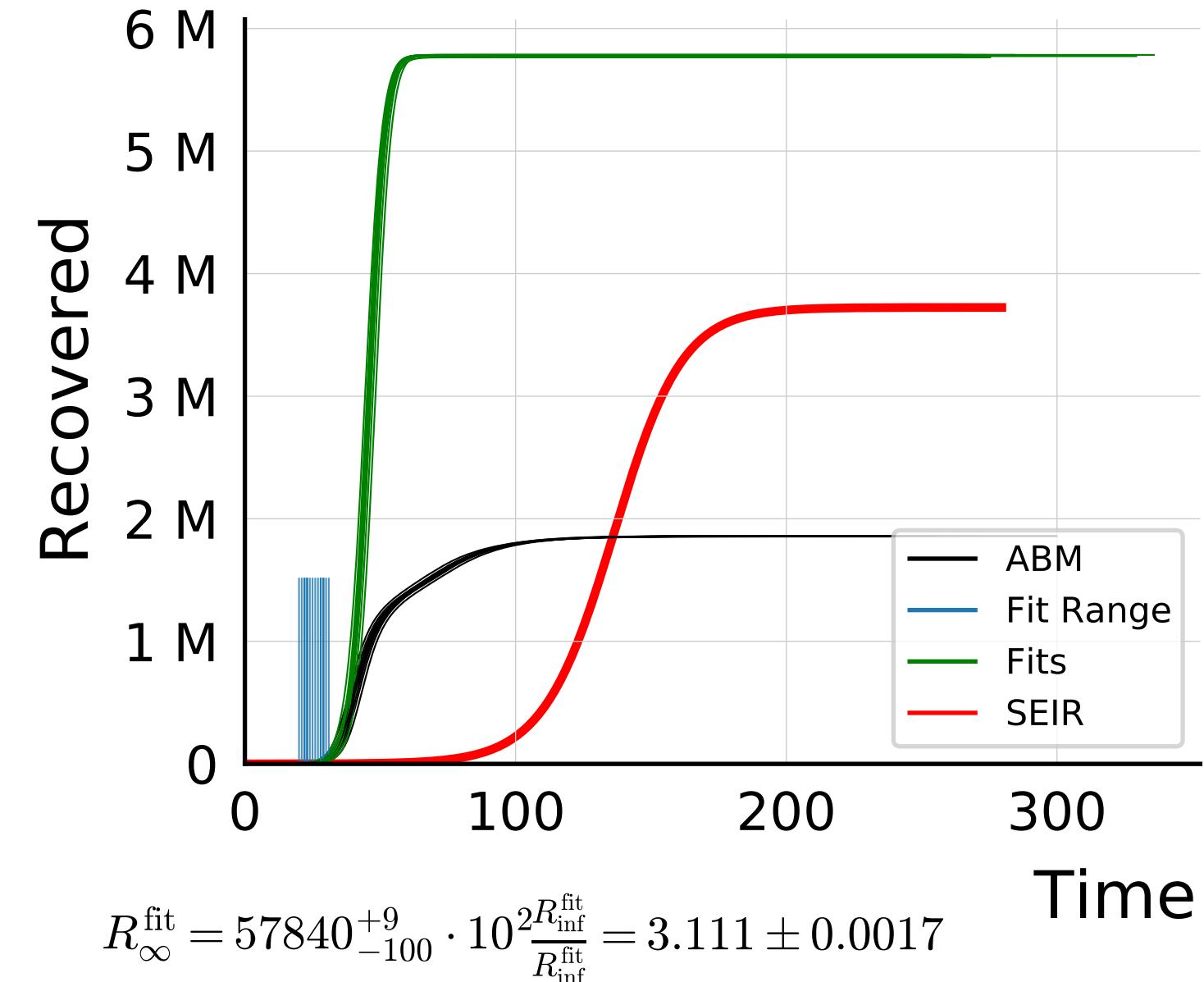
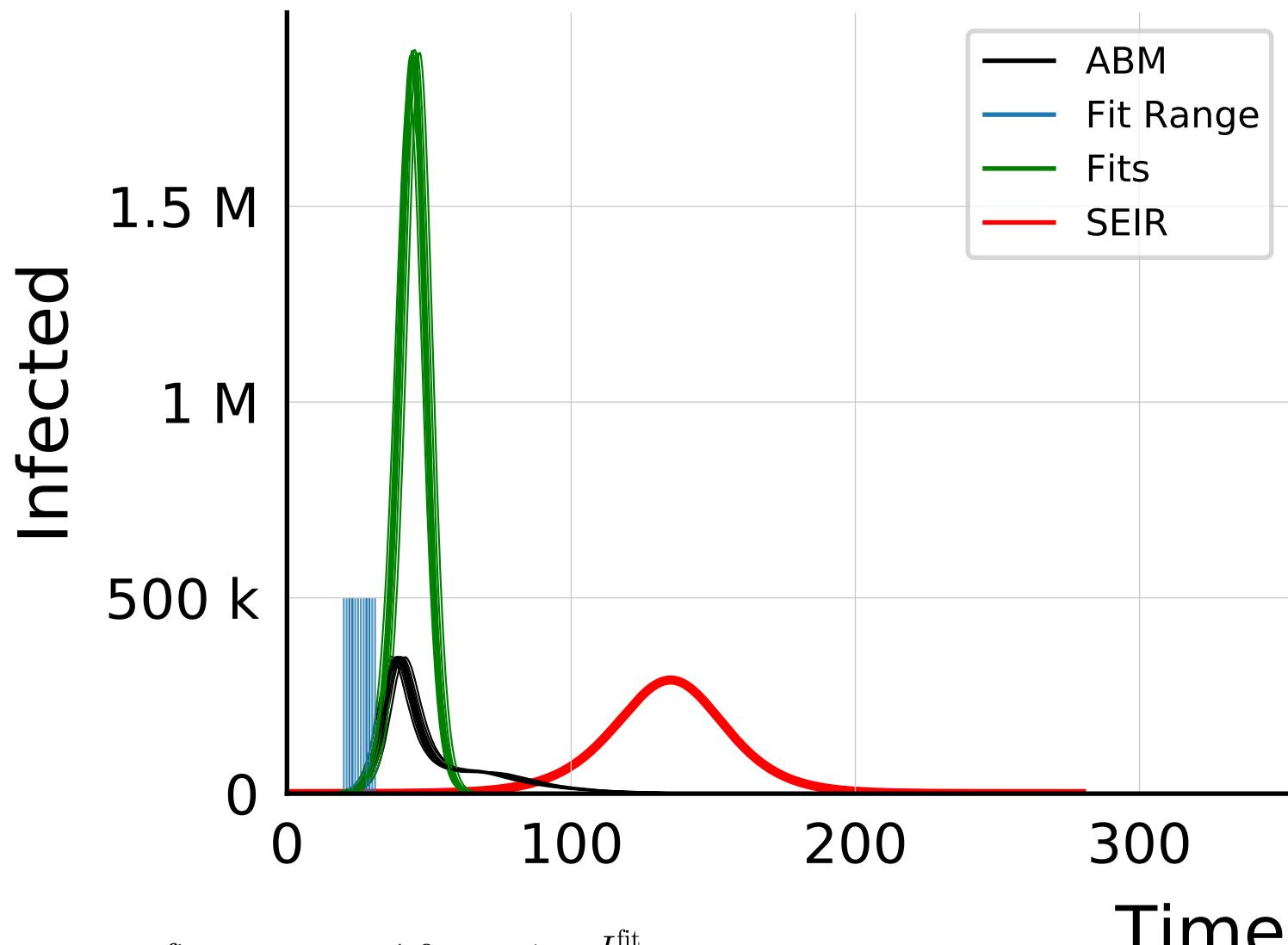
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



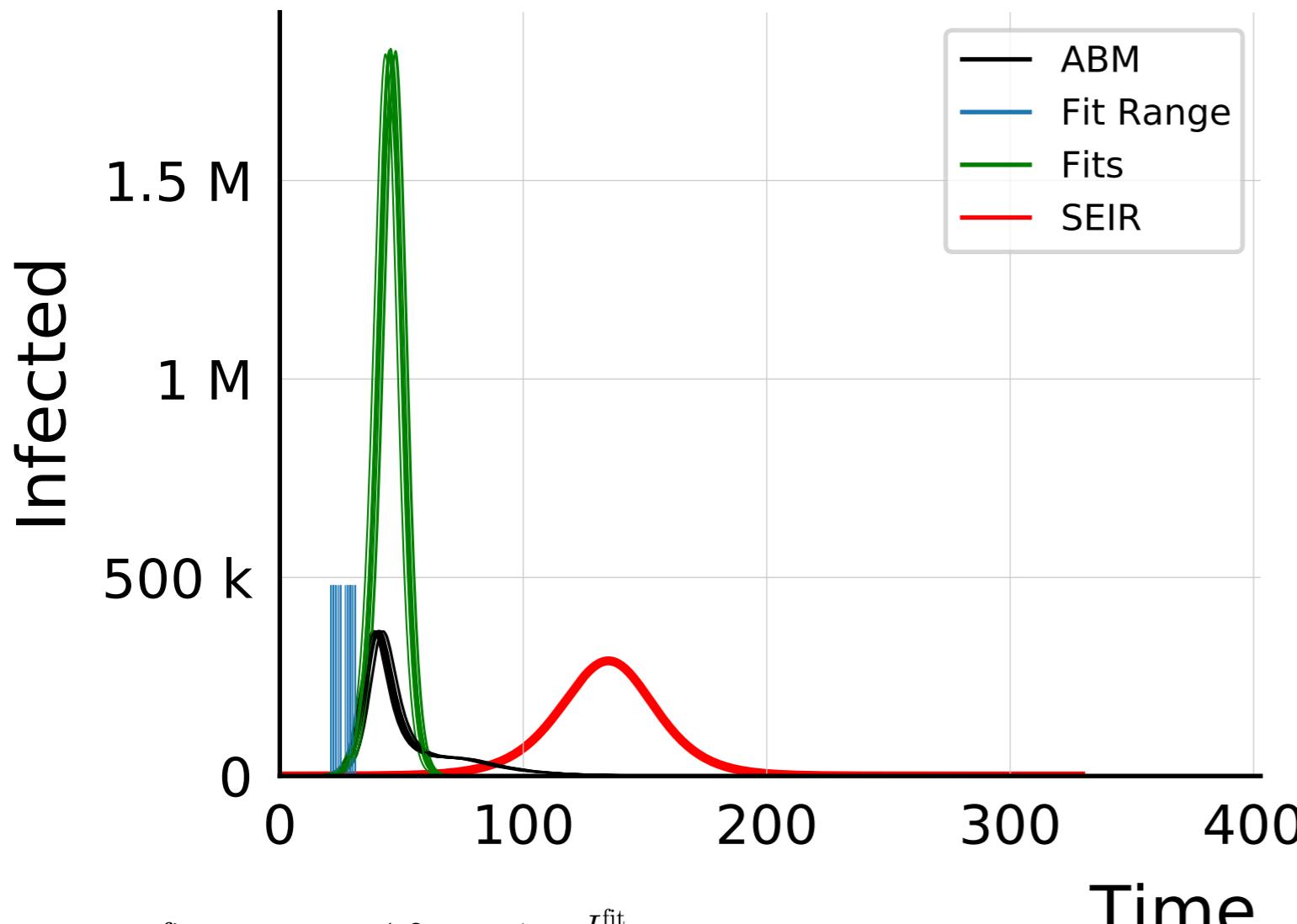
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



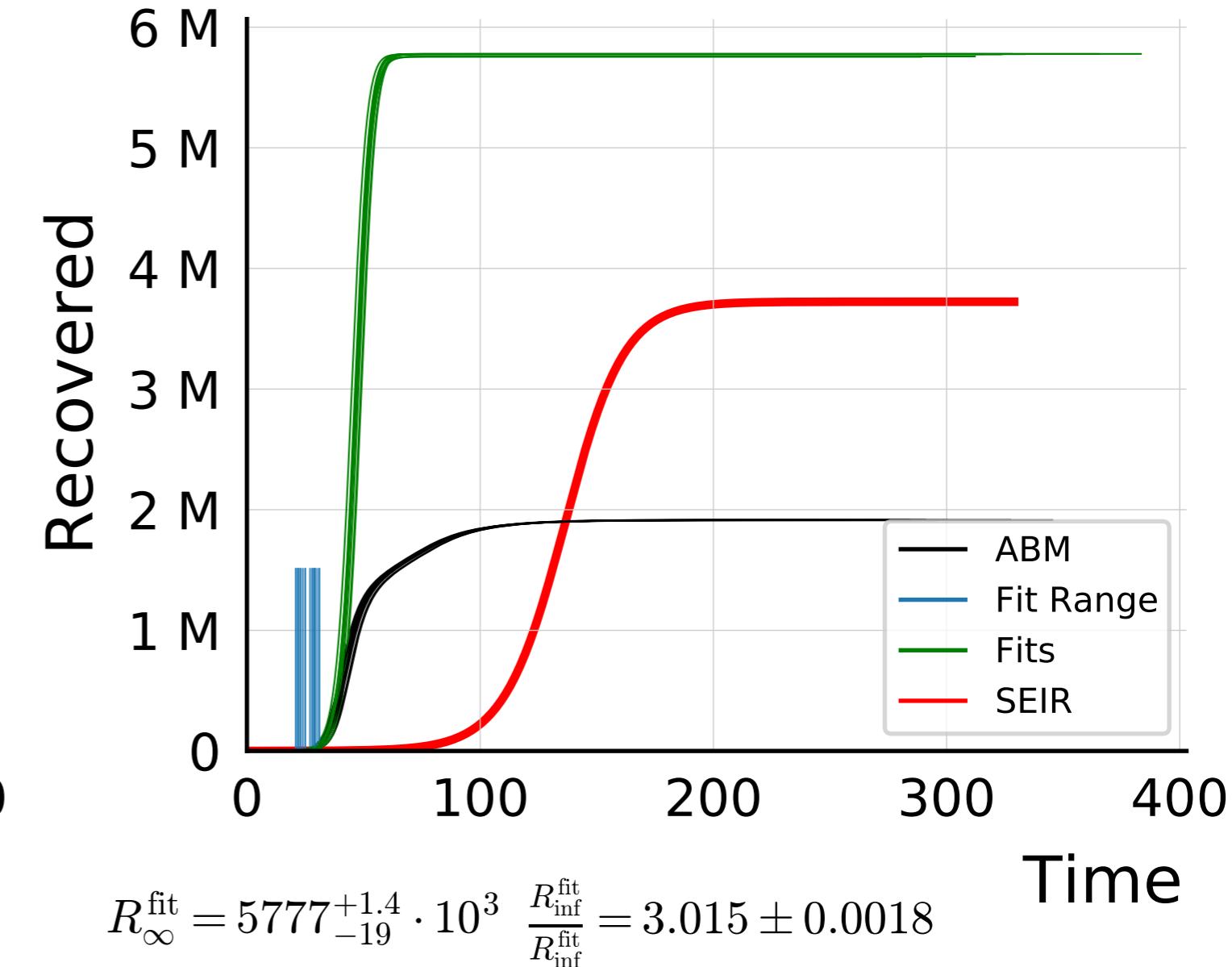
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

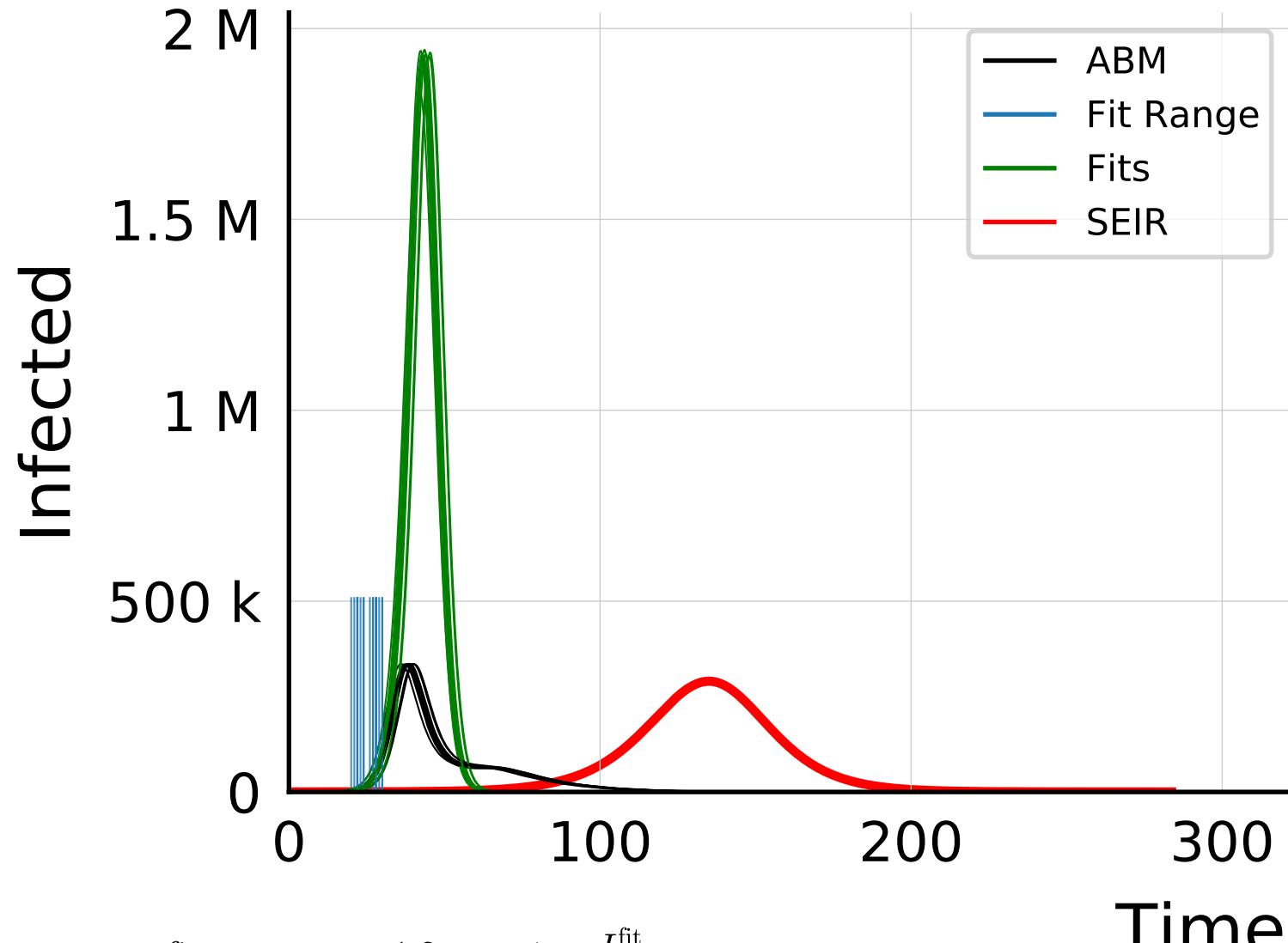


$$I_{\max}^{\text{fit}} = 182_{-12}^{+1.2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.91 \pm 0.047$$

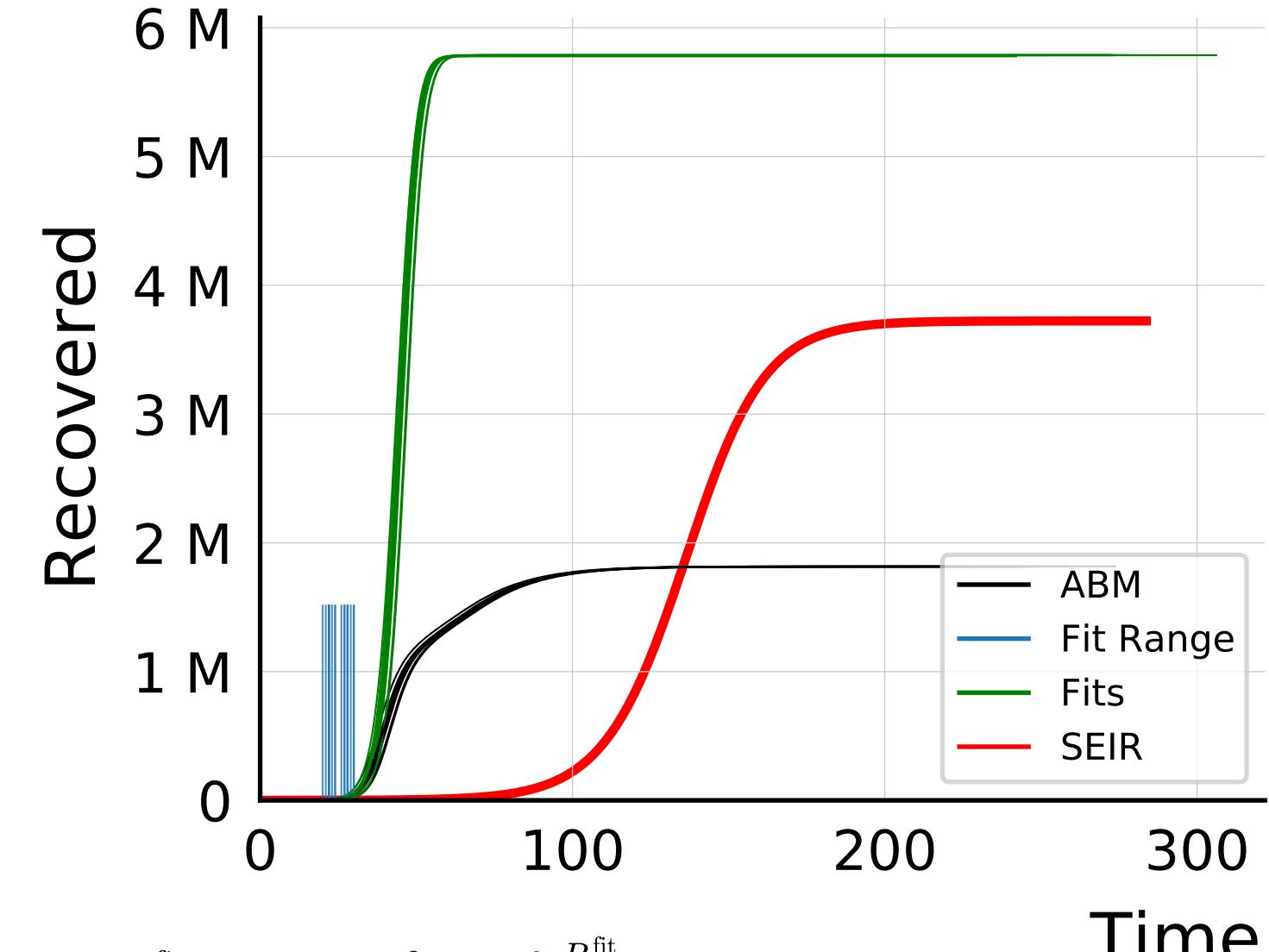


$$R_{\infty}^{\text{fit}} = 5777_{-19}^{+1.4} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 3.015 \pm 0.0018$$

$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

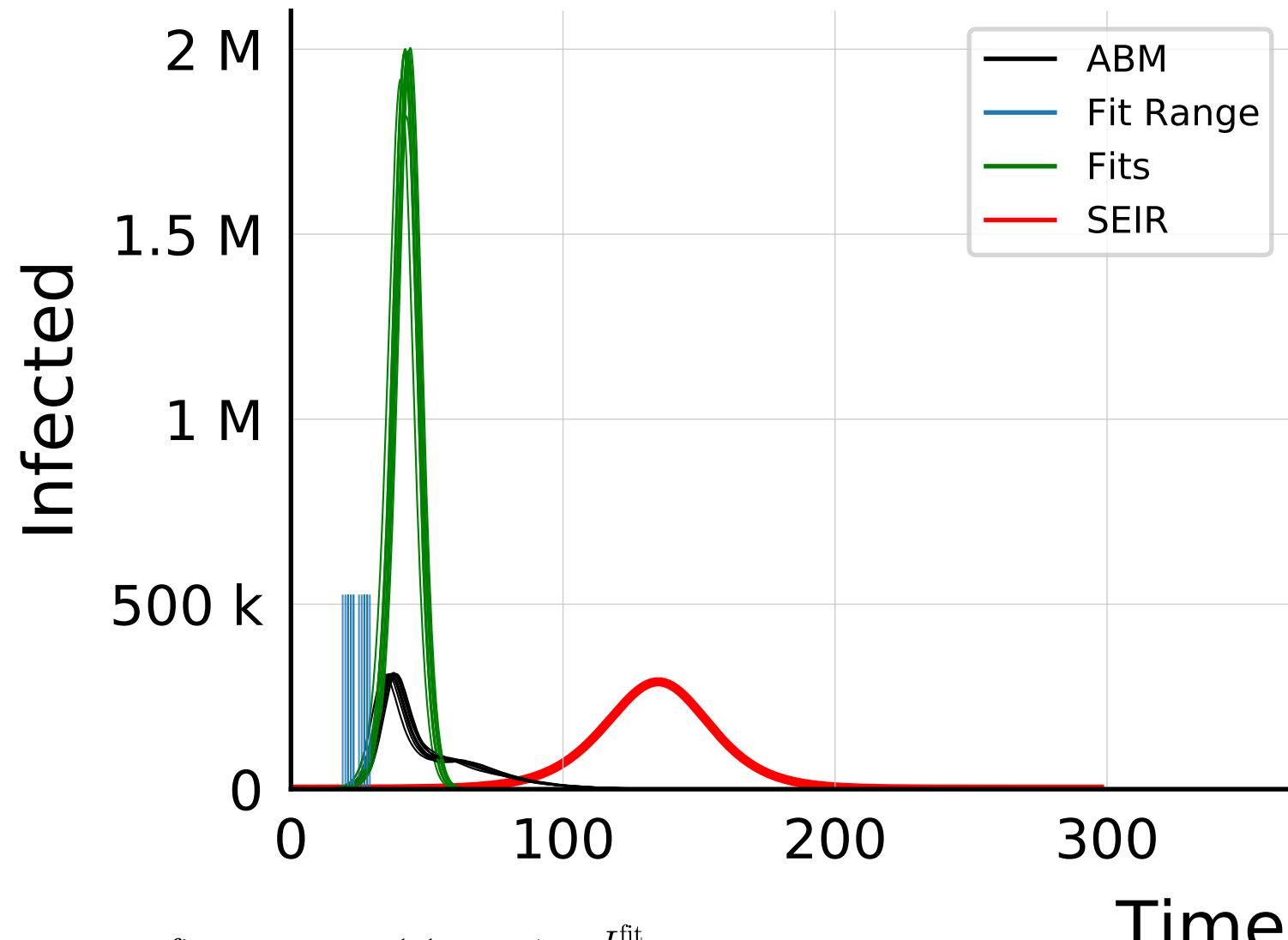


$$I_{\max}^{\text{fit}} = 193^{+1.2}_{-1.4} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 5.74 \pm 0.030$$

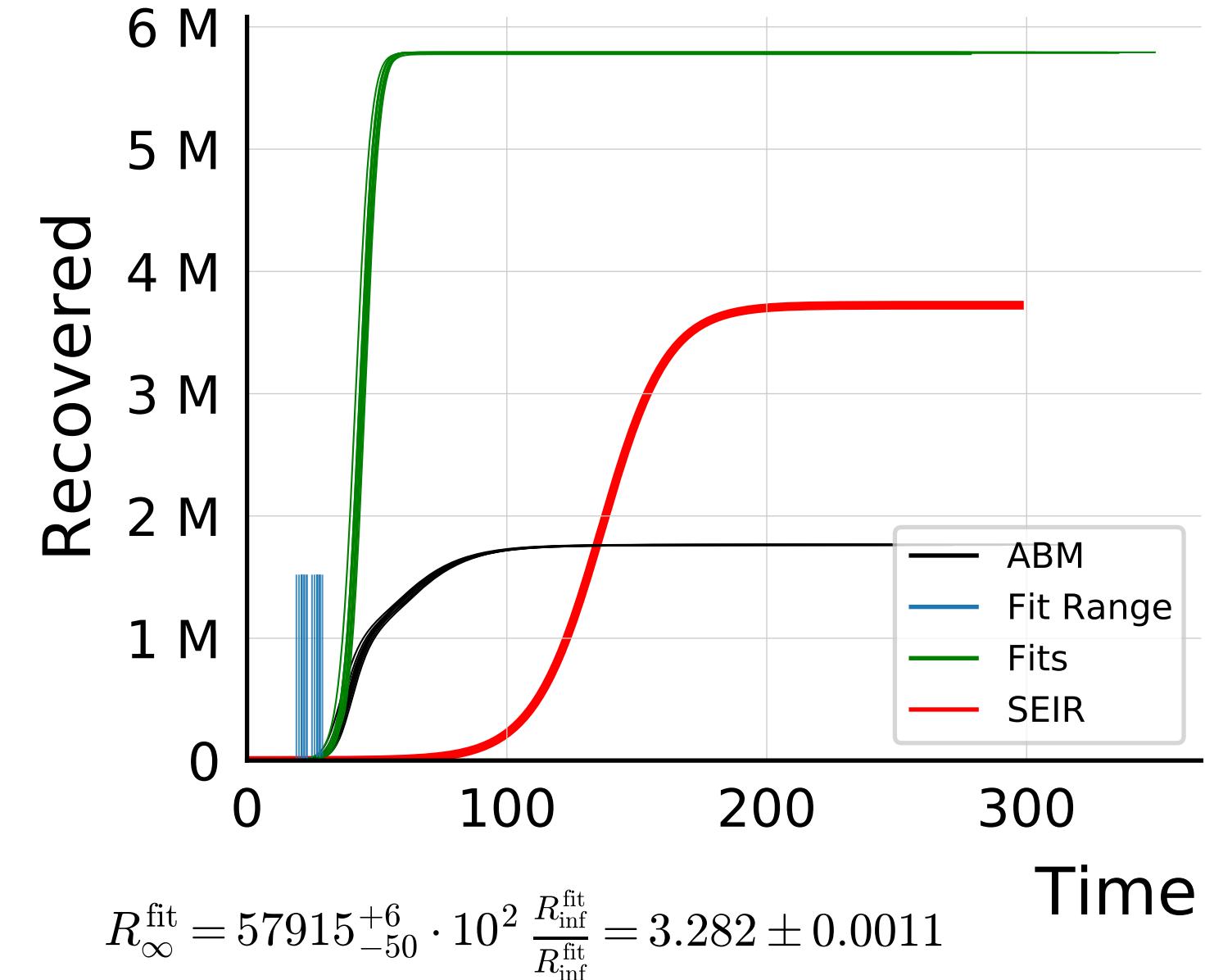


$$R_{\infty}^{\text{fit}} = 57876^{+9}_{-11} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 3.1865 \pm 0.00095$$

$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

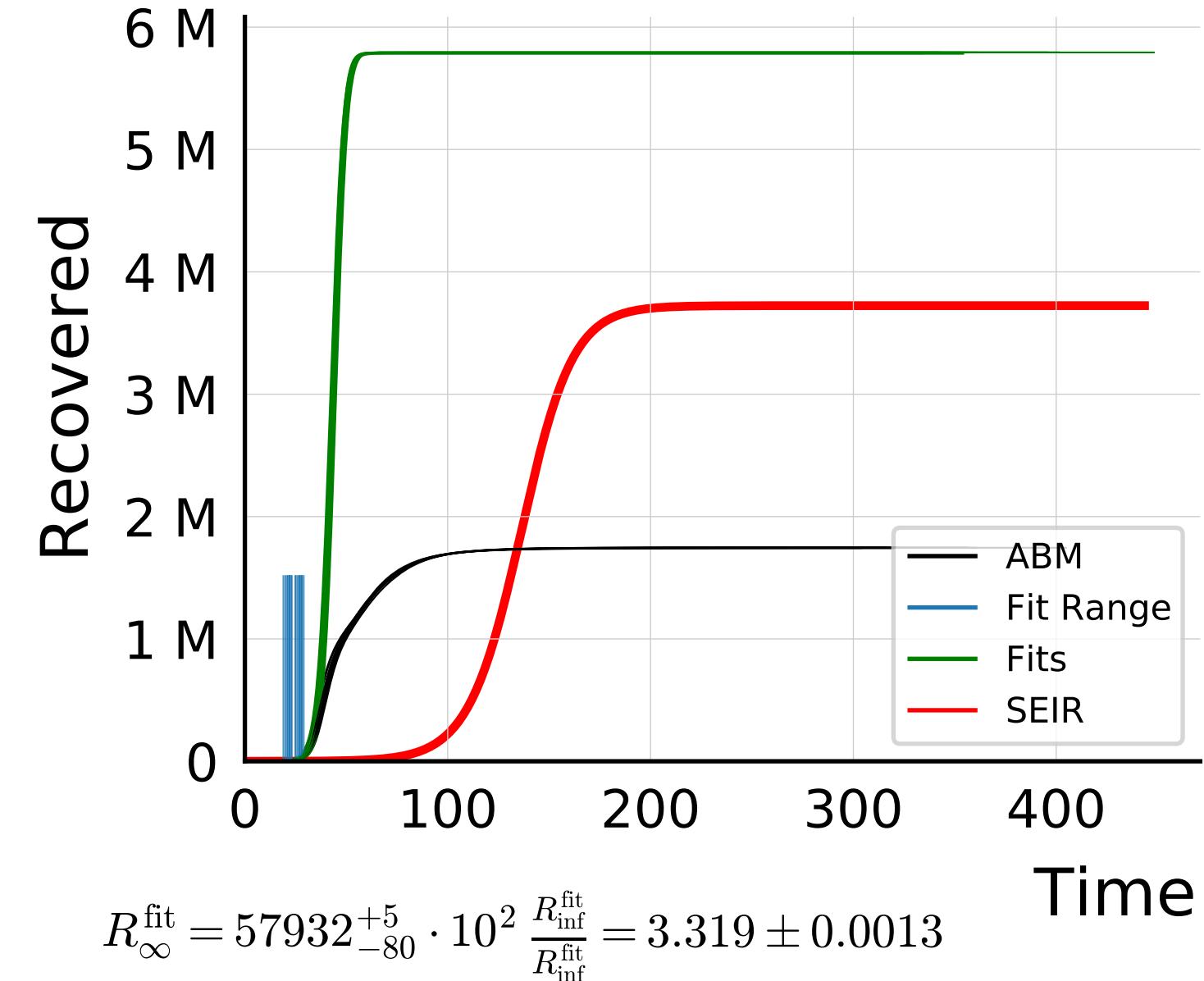
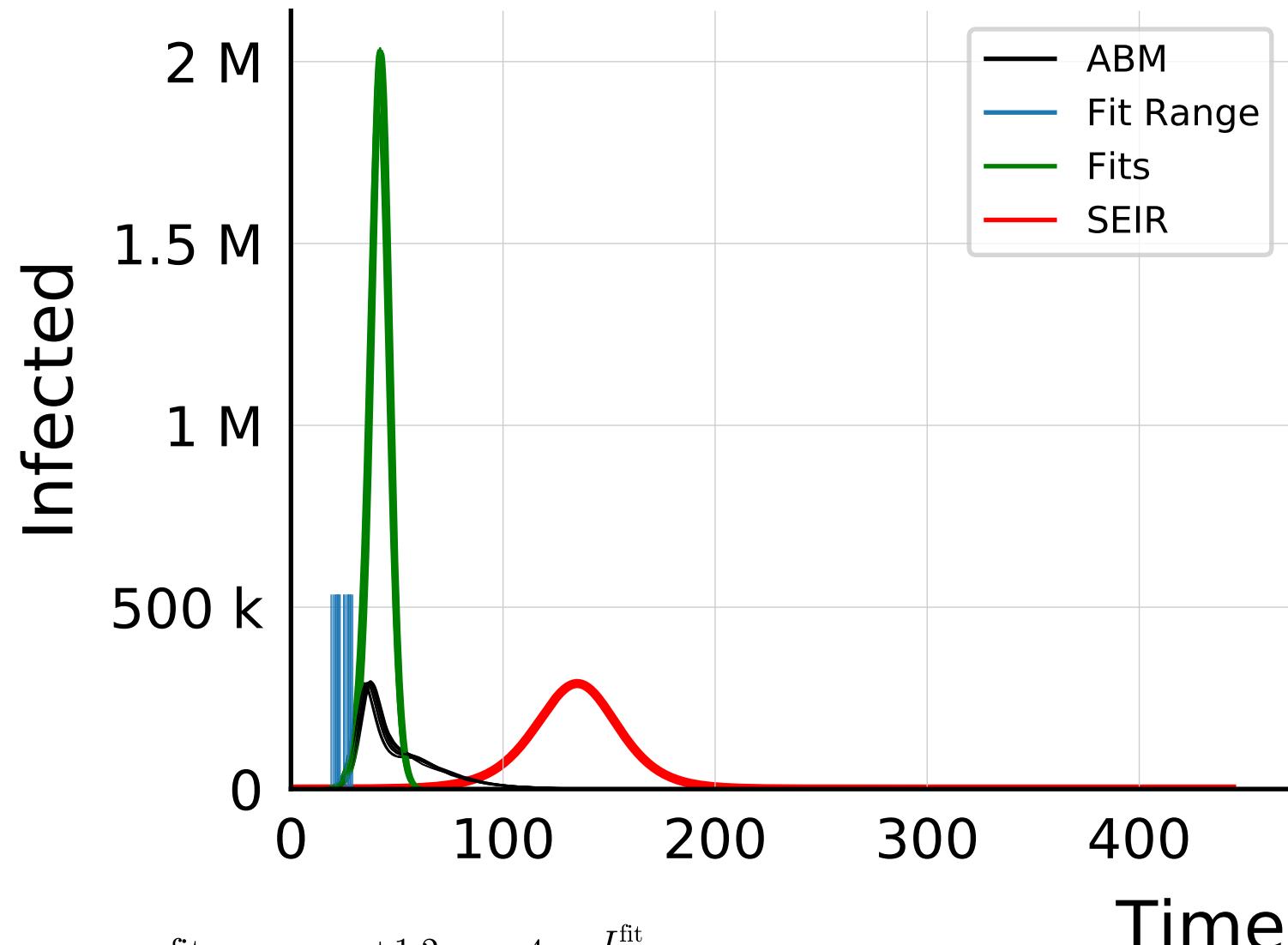


$$I_{\max}^{\text{fit}} = 199_{-7}^{+1.1} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 6.32 \pm 0.055$$

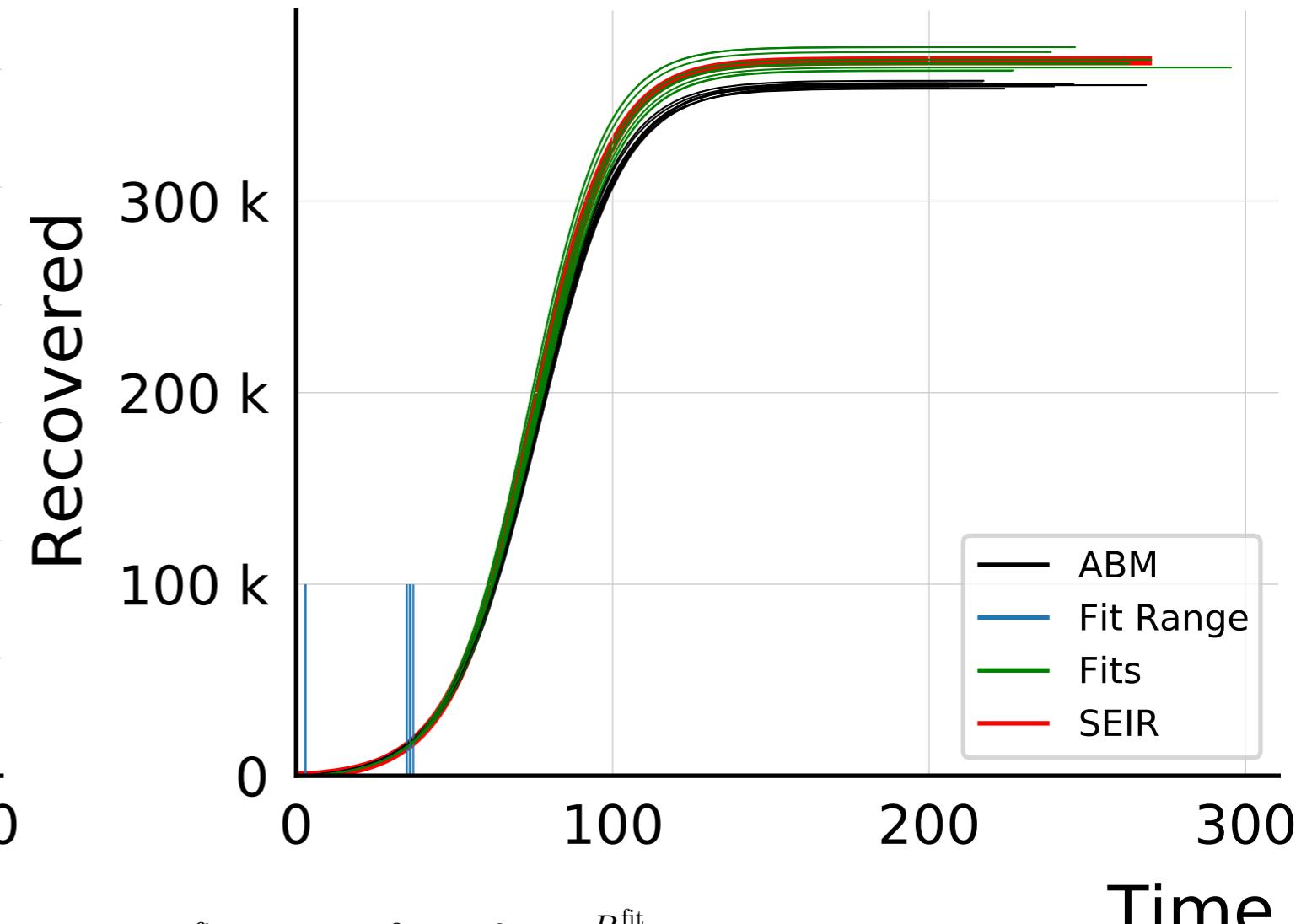
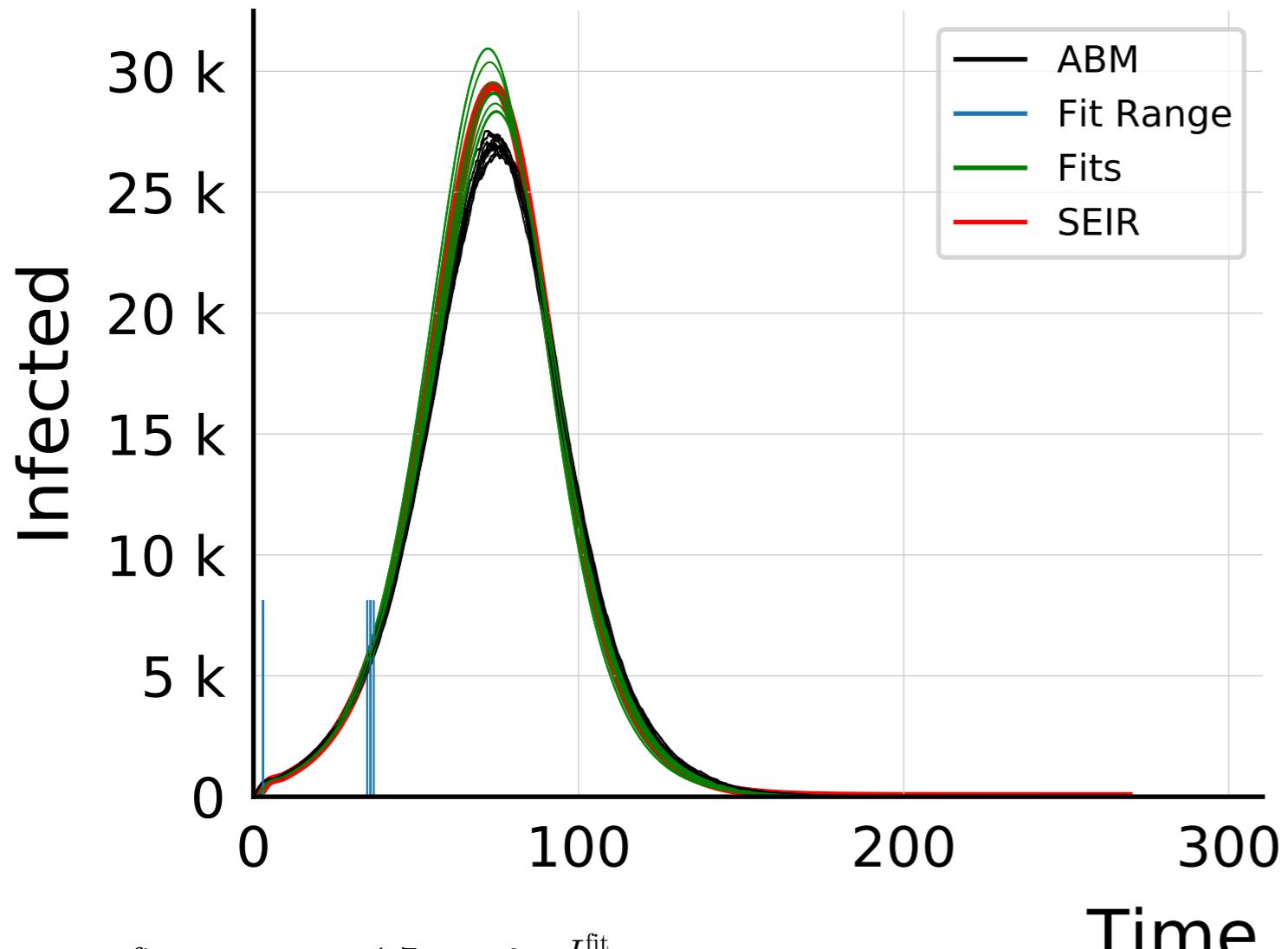


$$R_{\infty}^{\text{fit}} = 57915_{-50}^{+6} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 3.282 \pm 0.0011$$

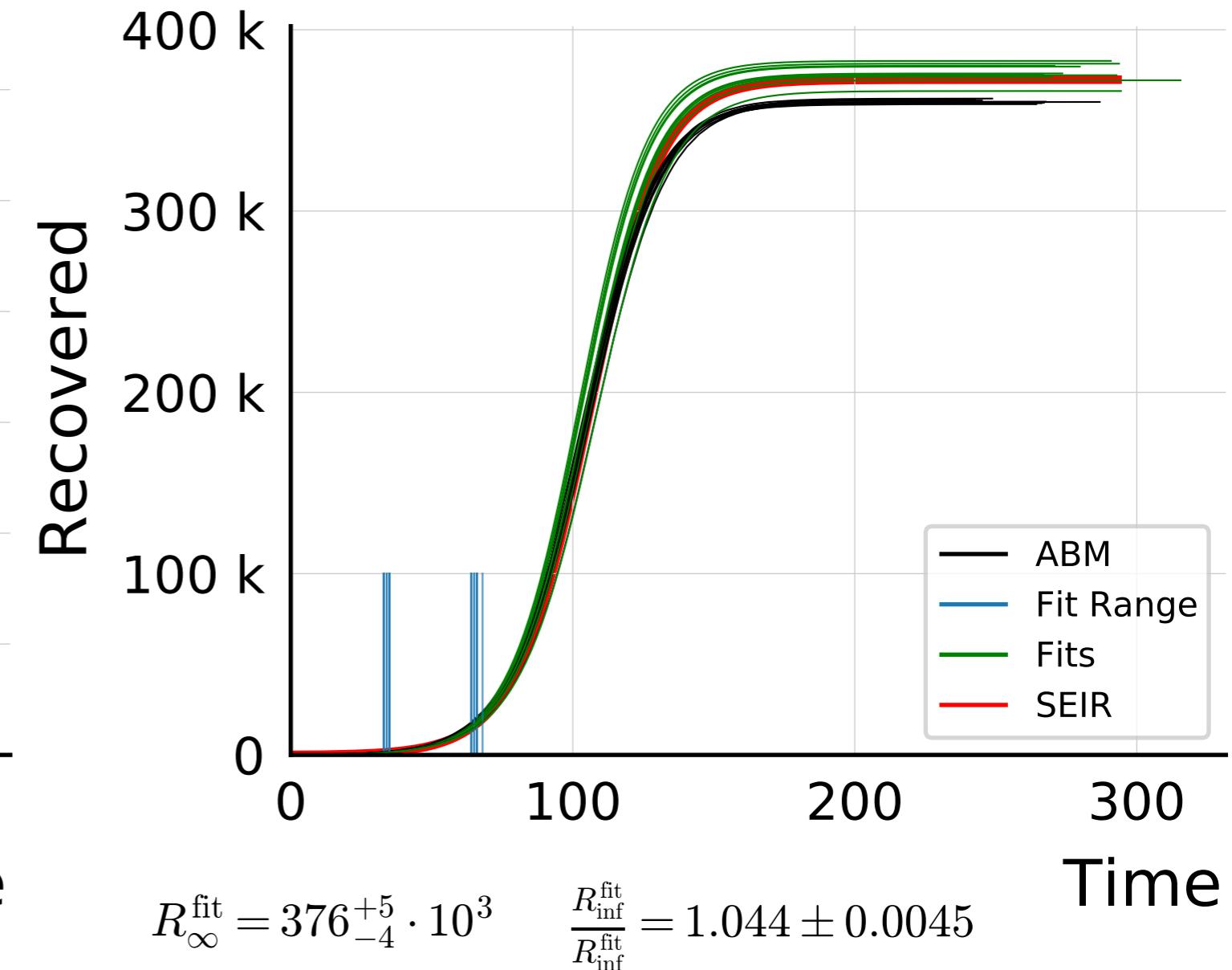
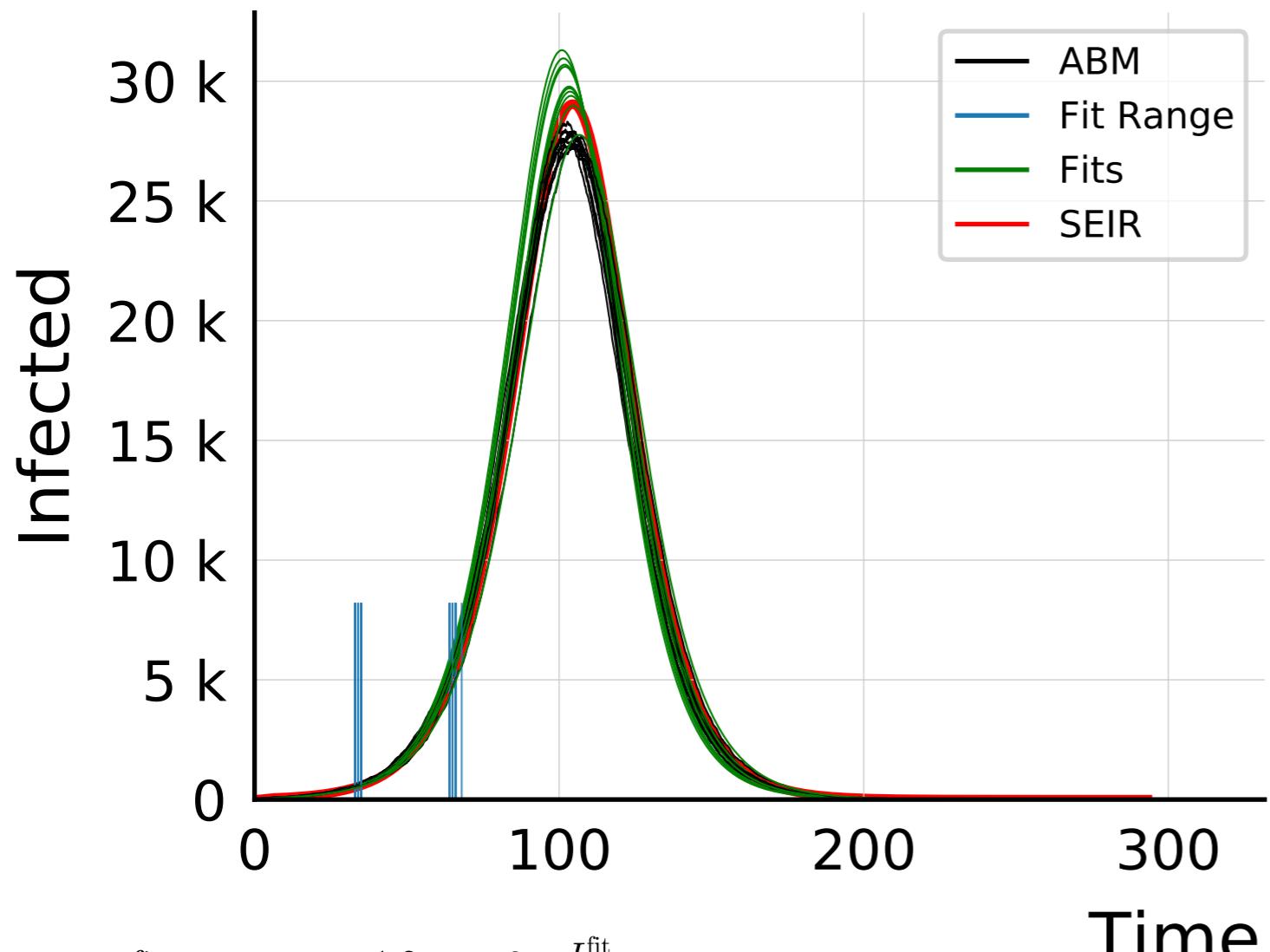
$N_{\text{tot}} = 5.8M$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



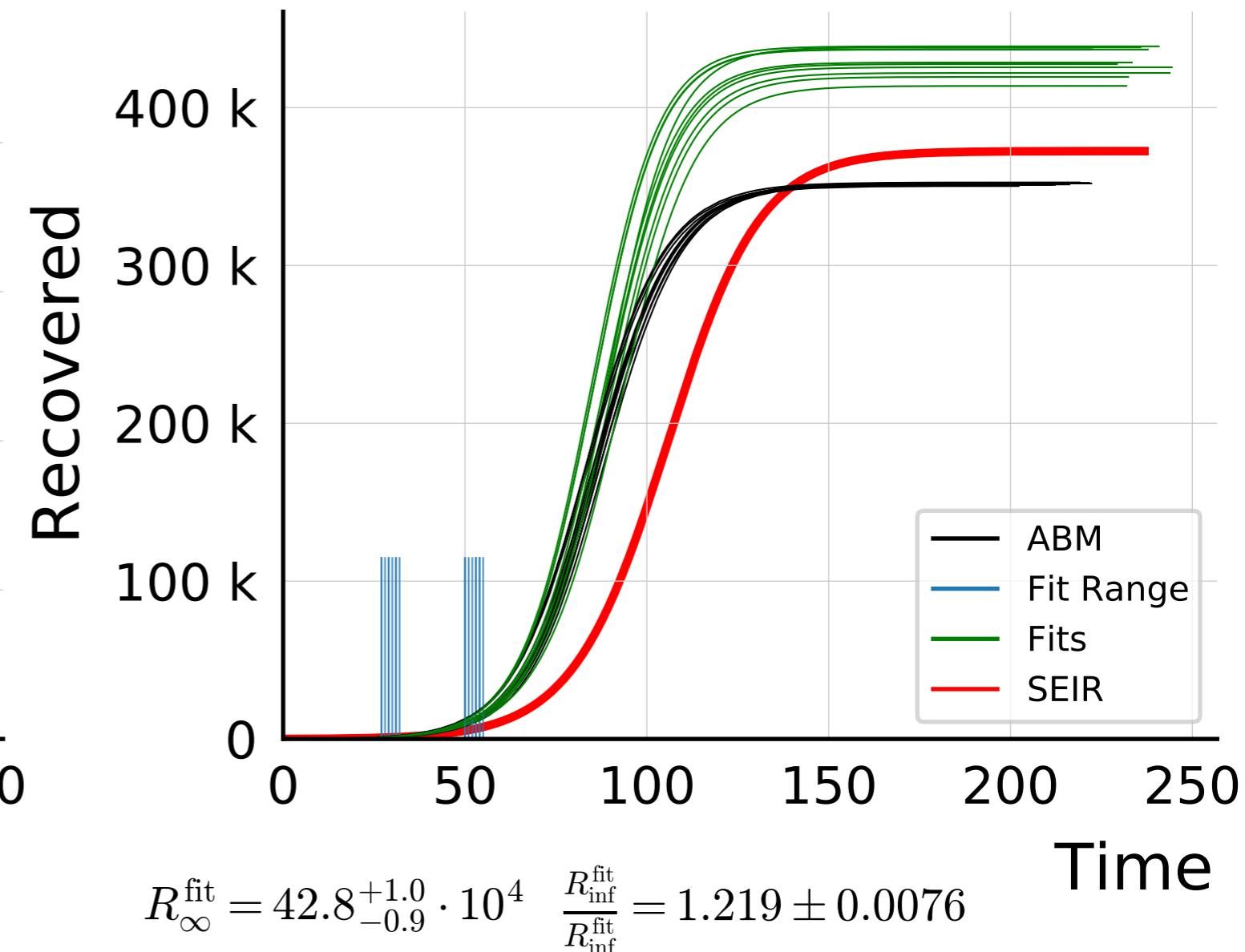
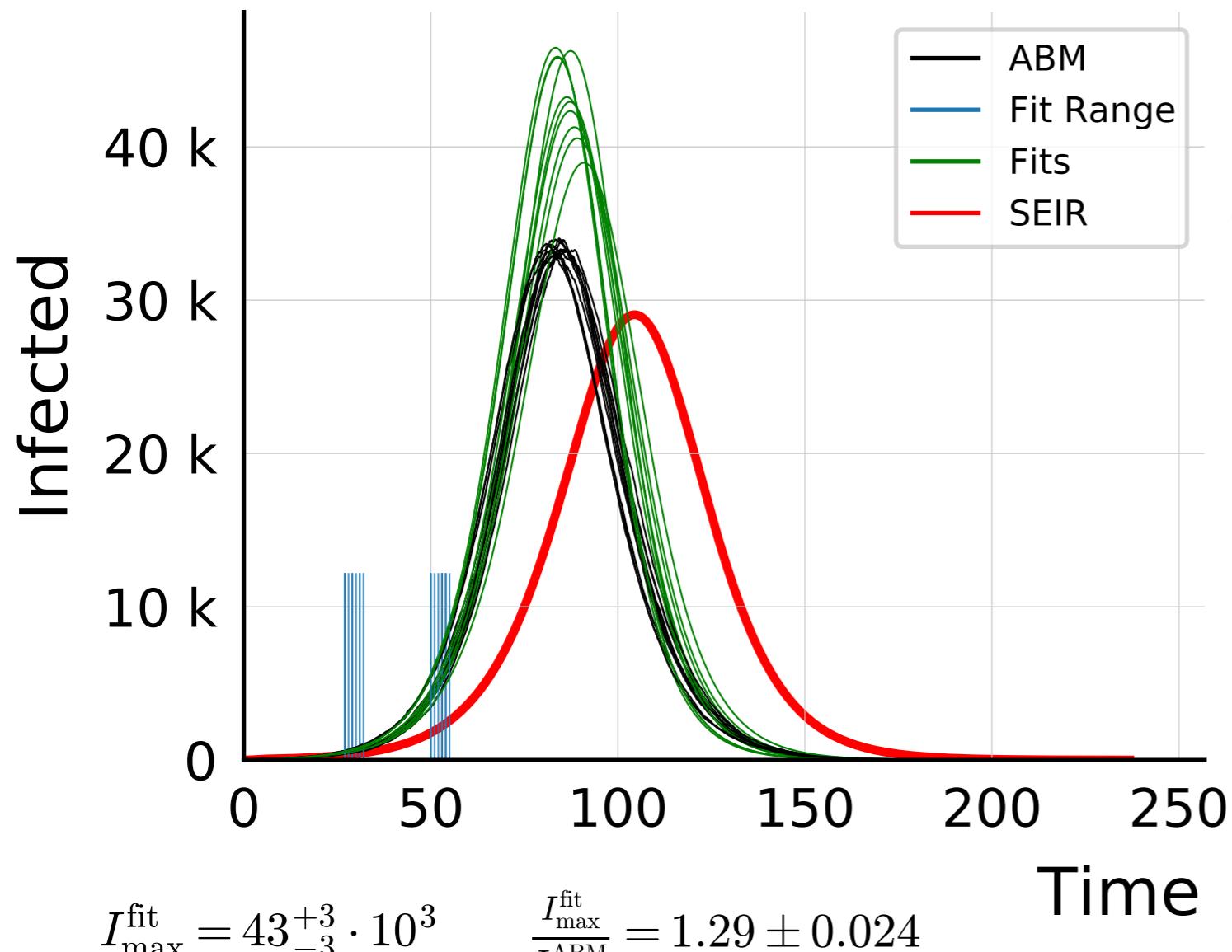
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



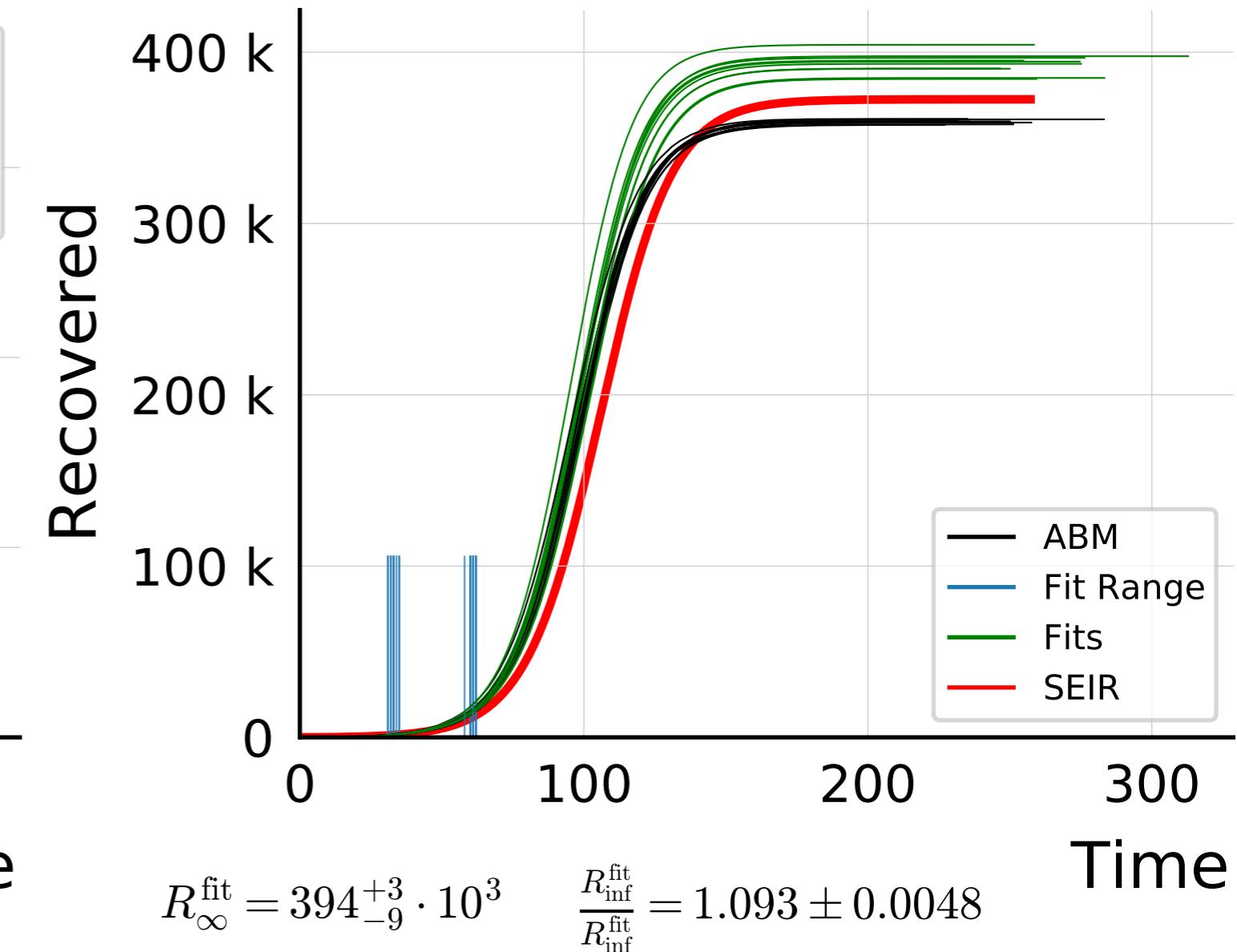
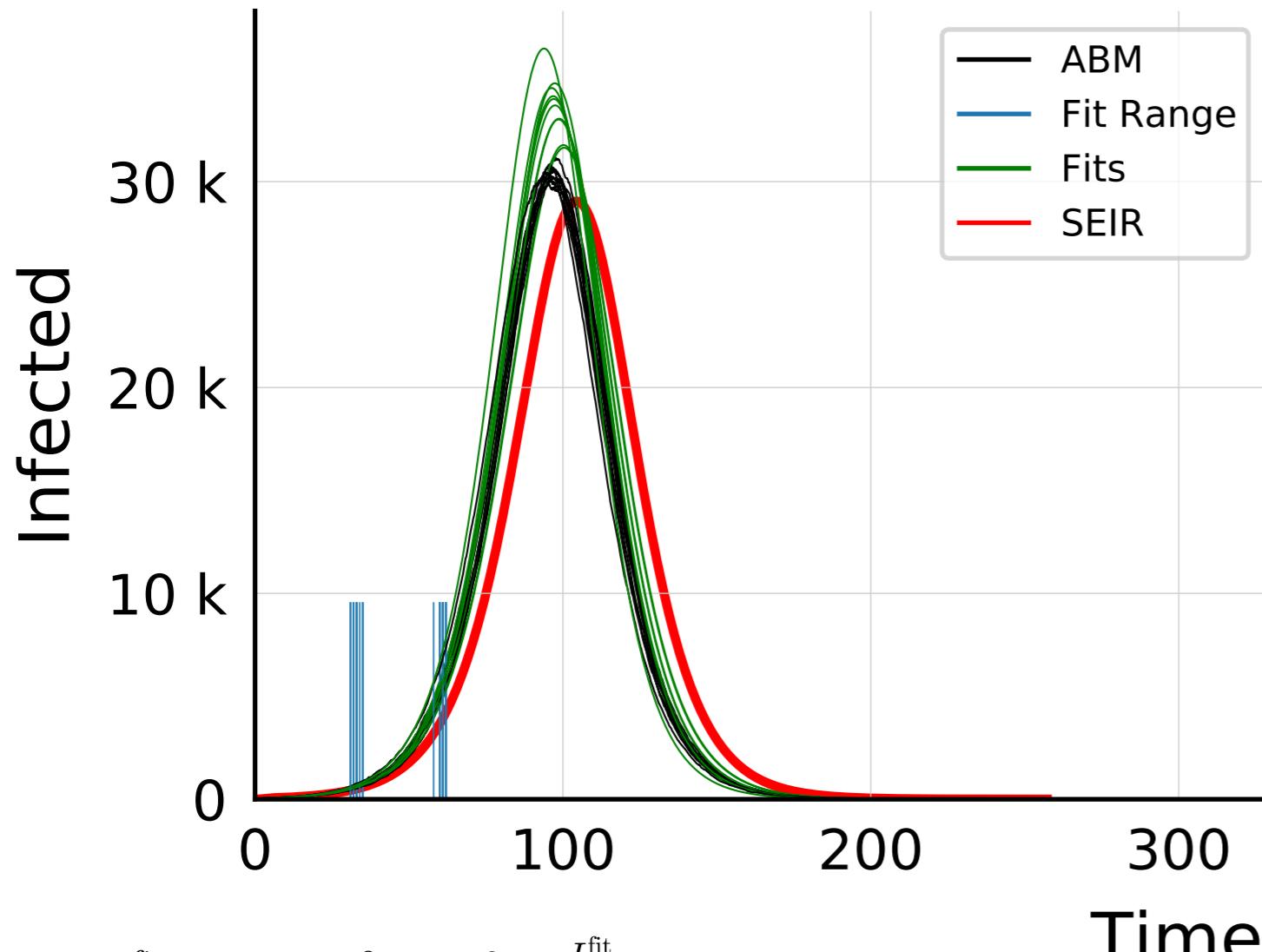
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



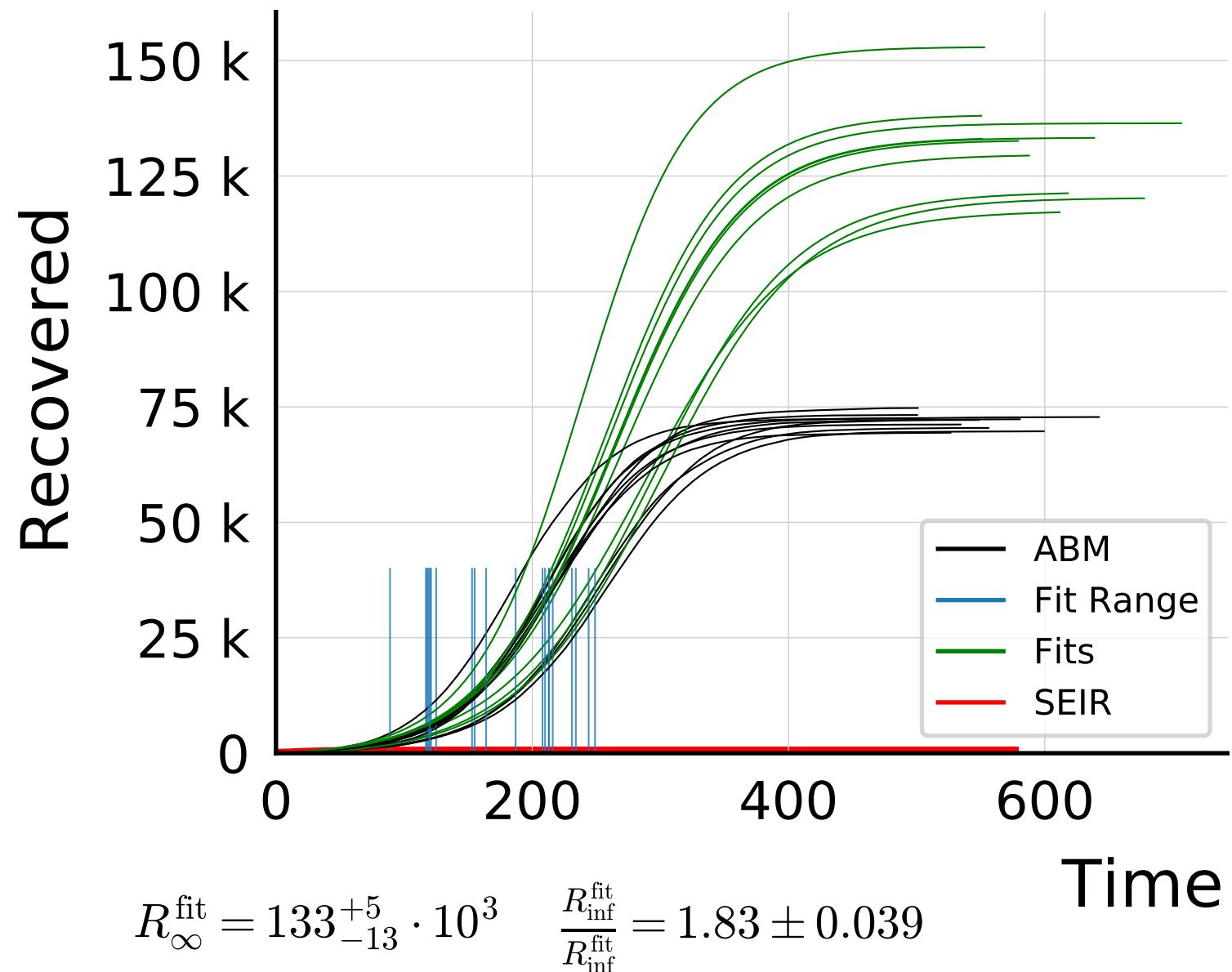
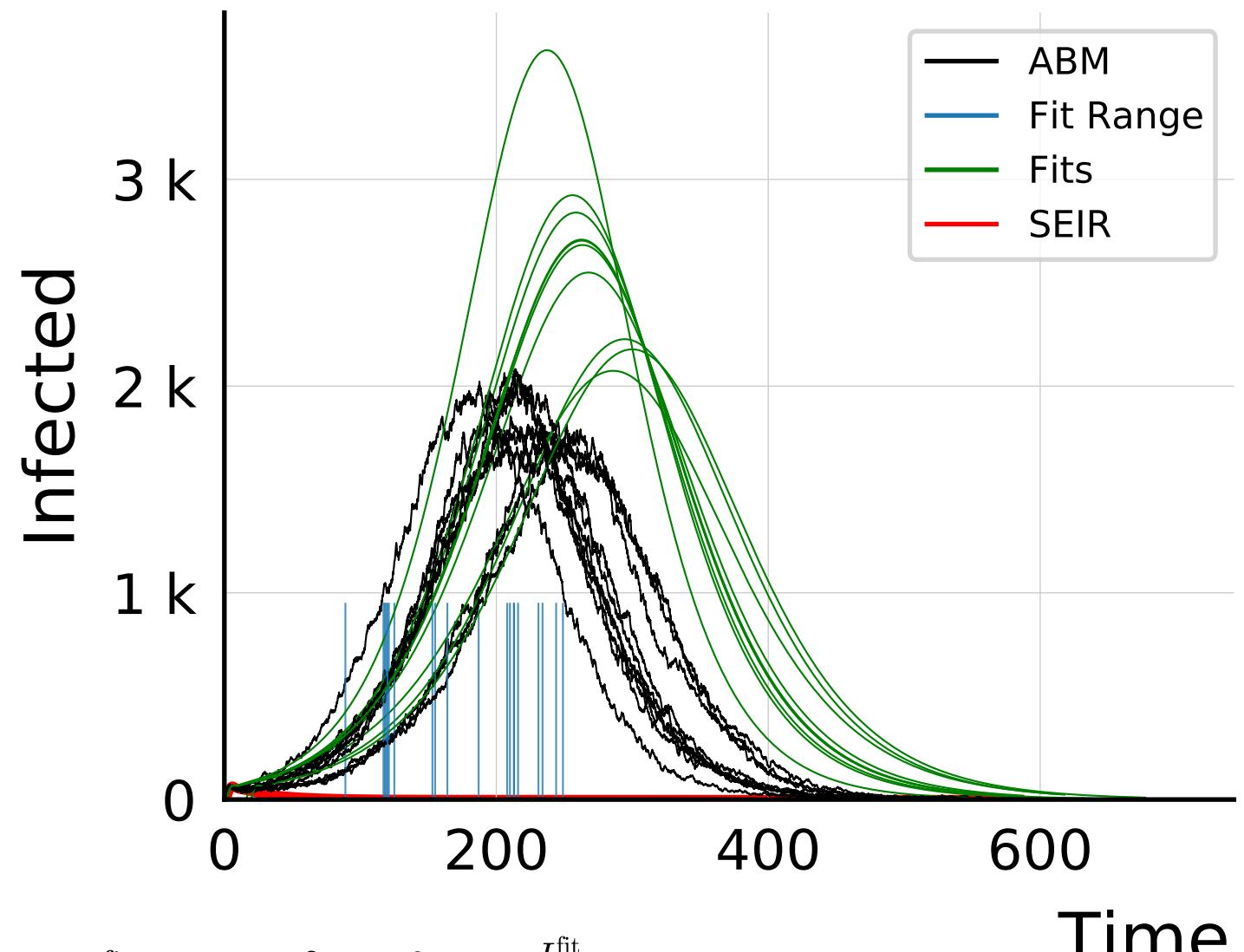
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



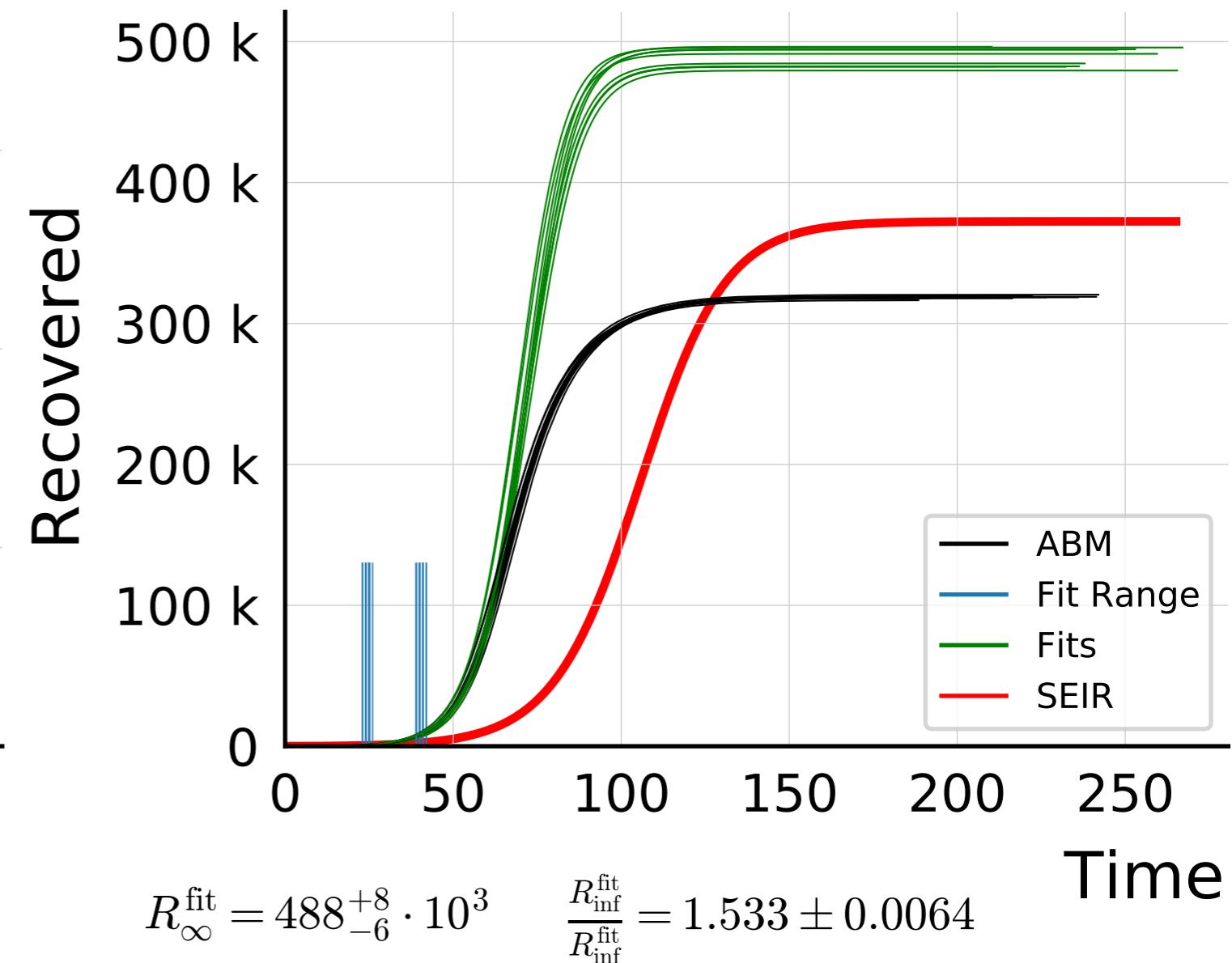
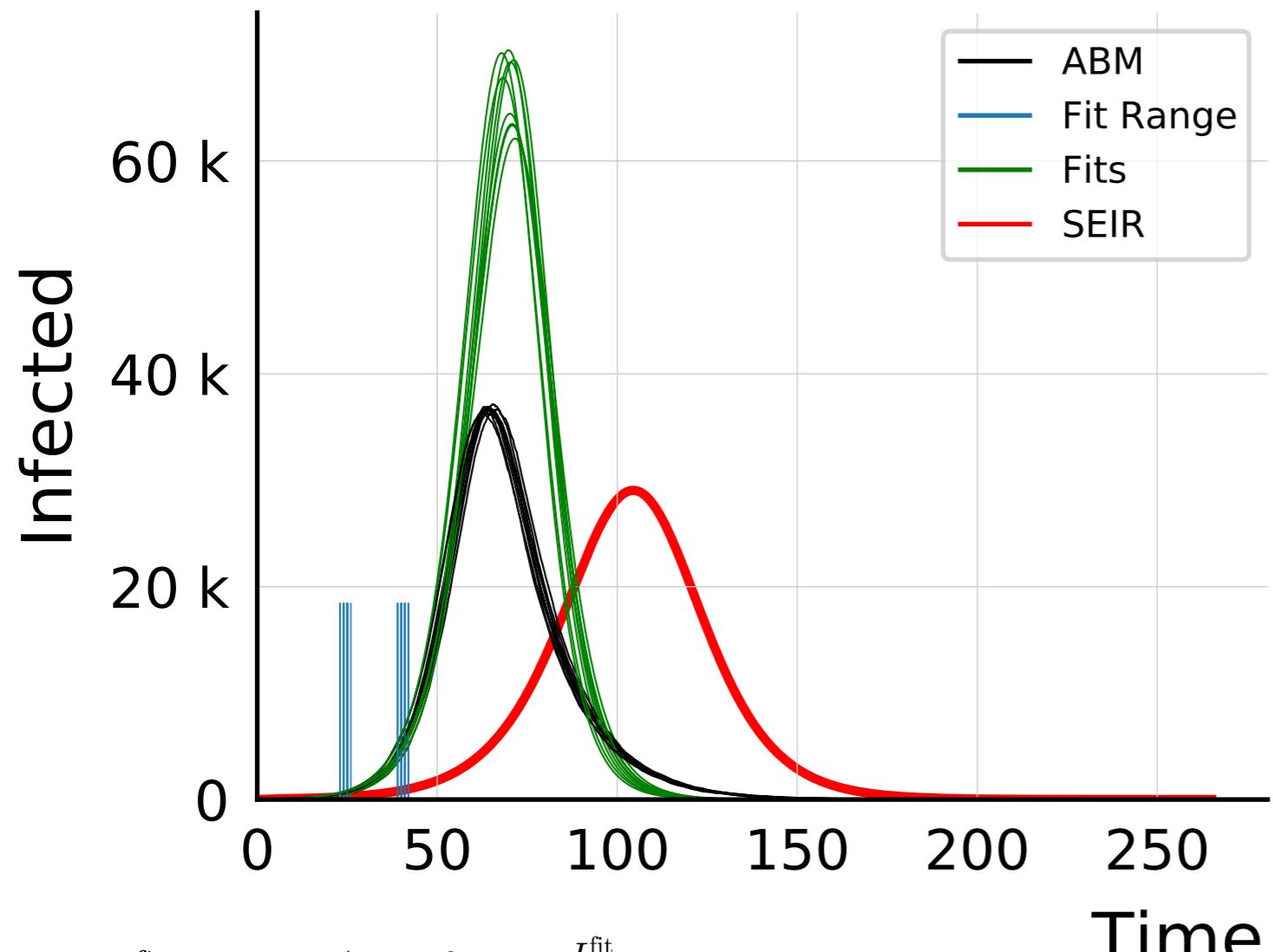
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



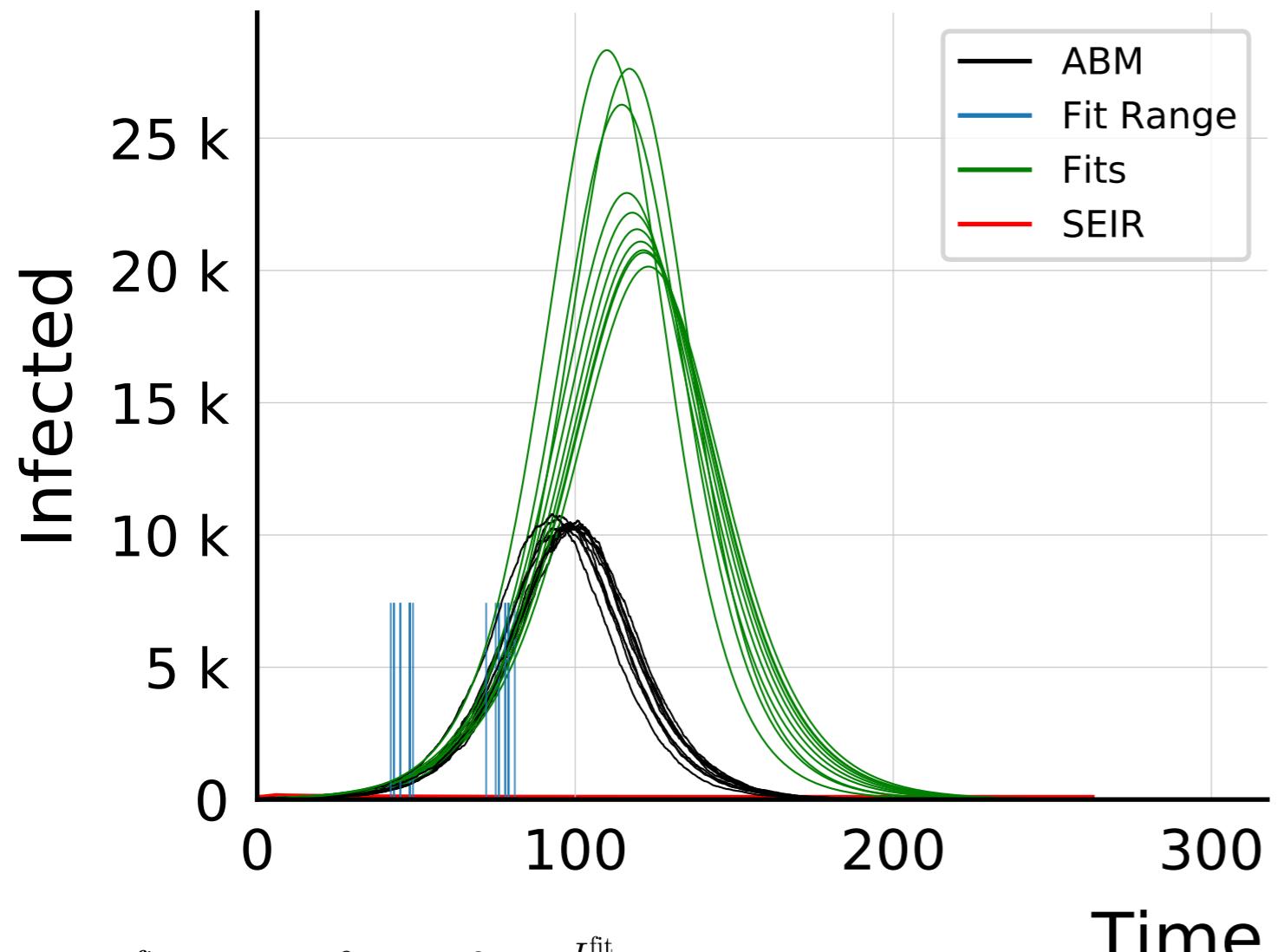
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



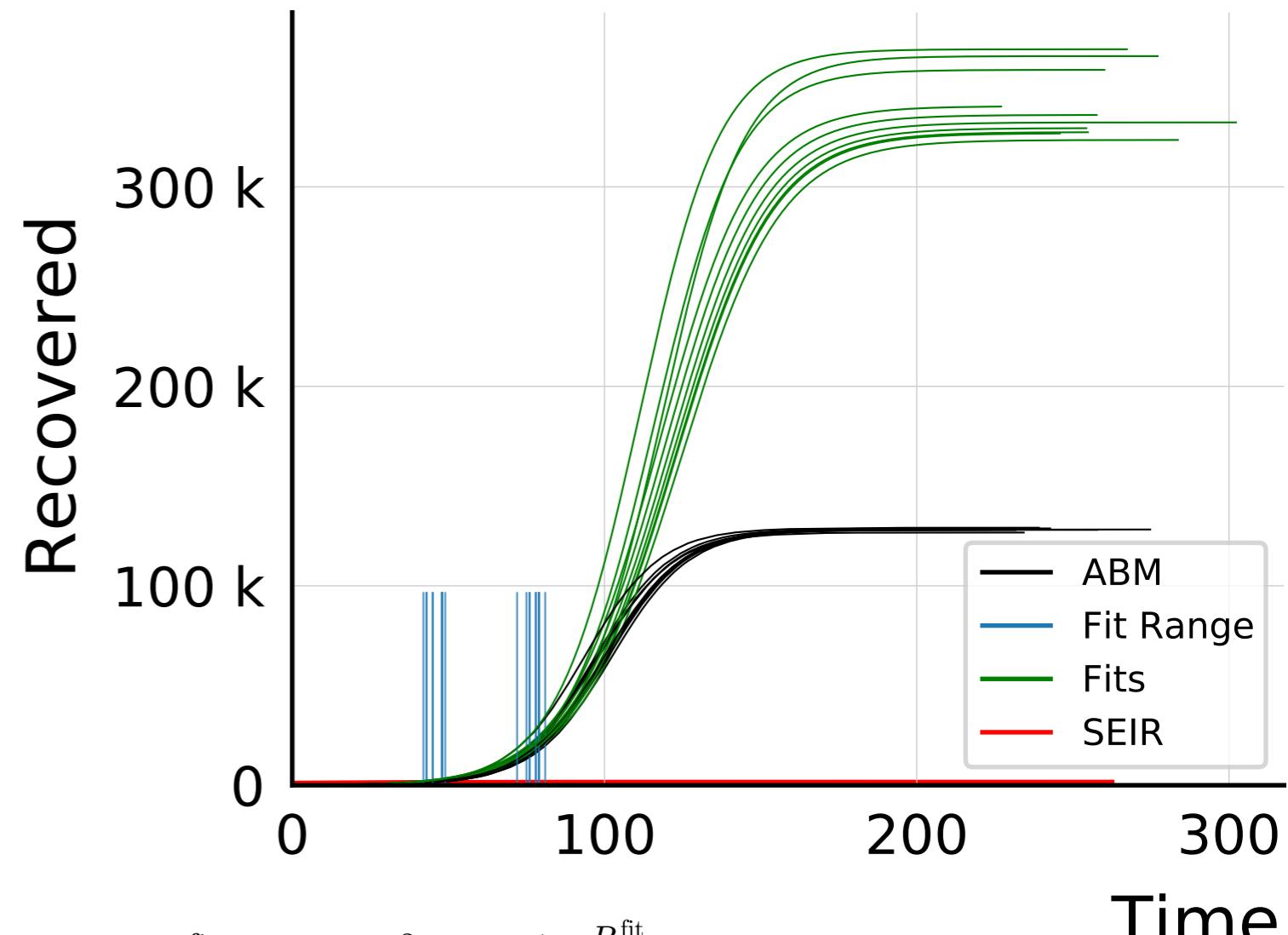
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

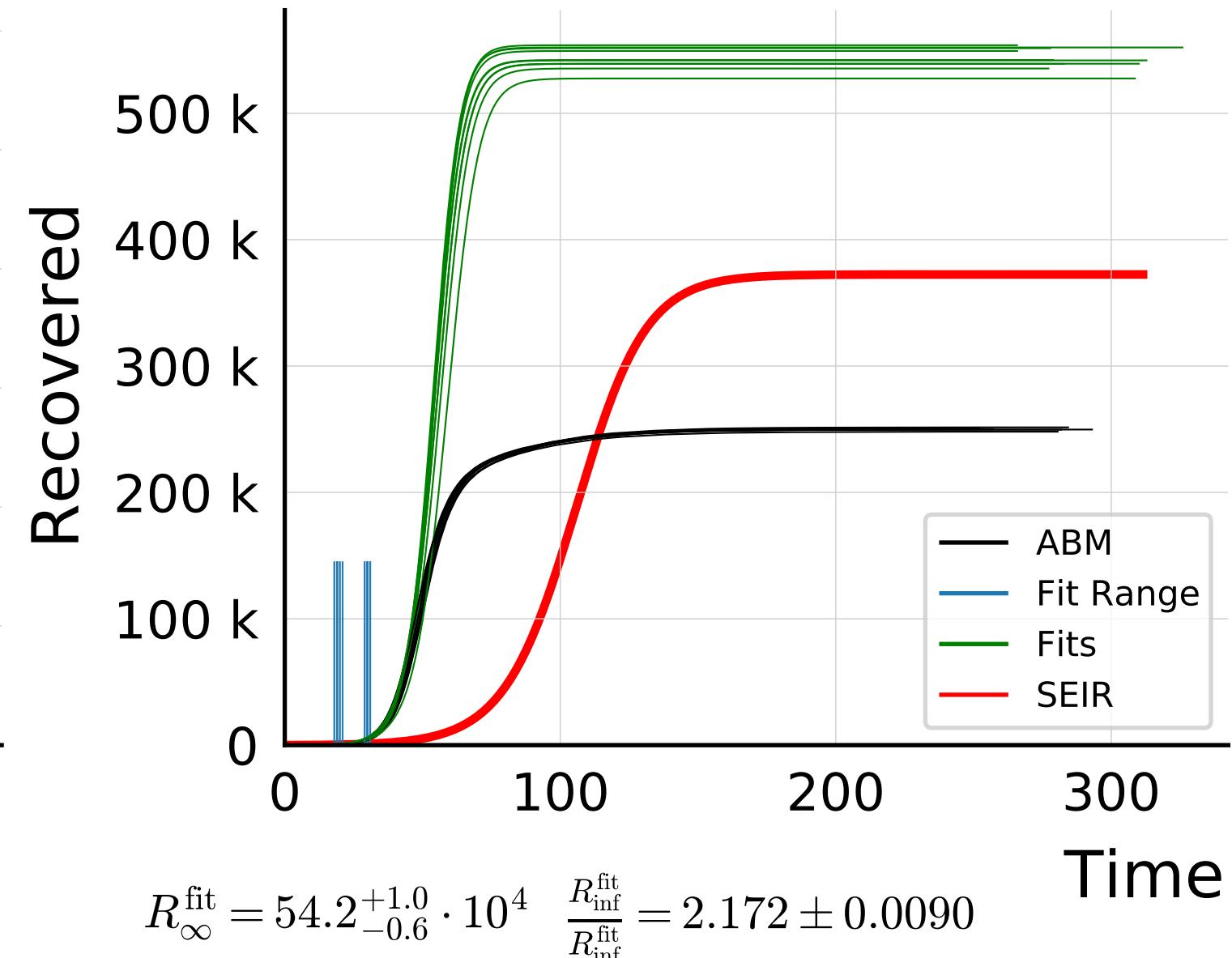
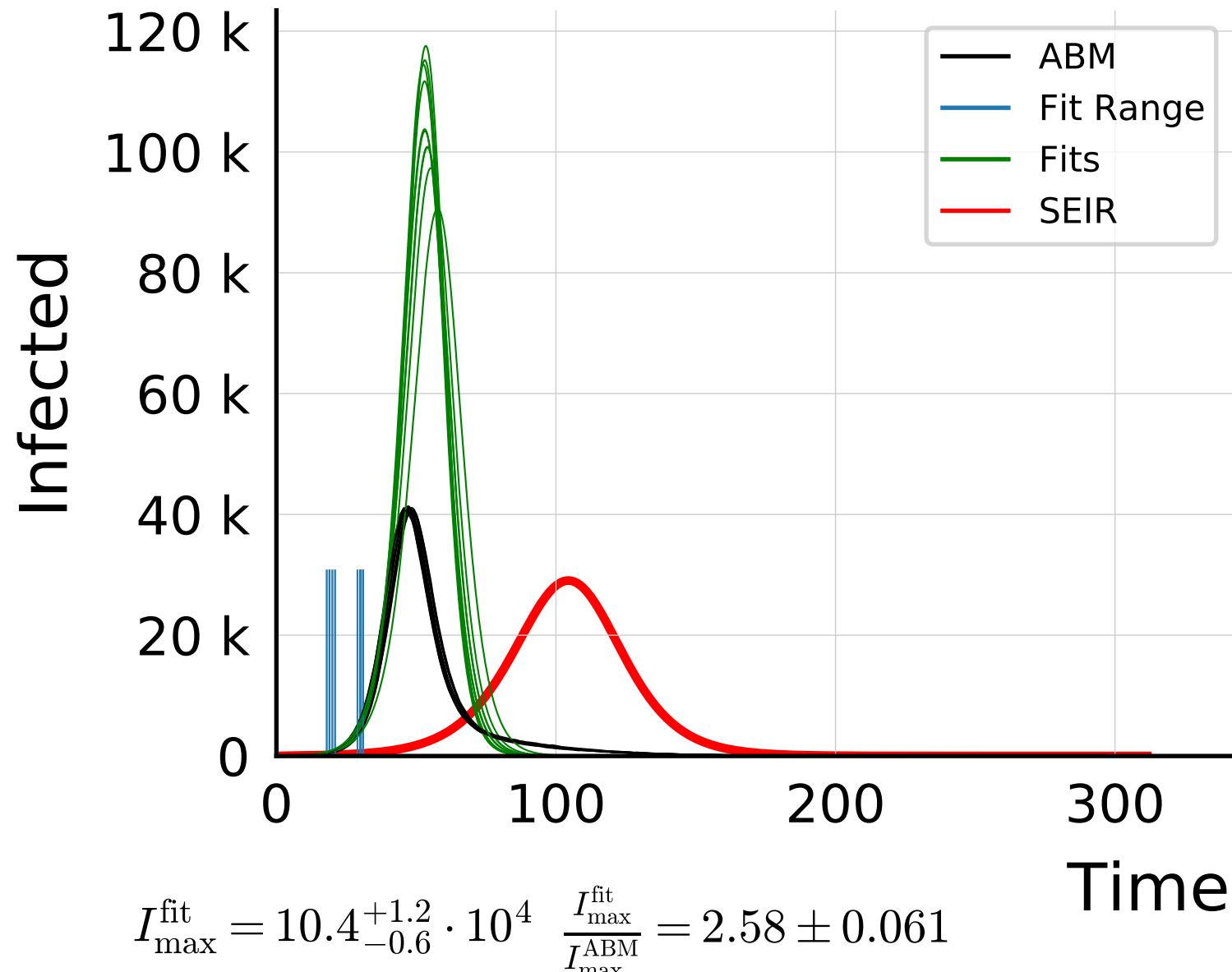


$$I_{\max}^{\text{fit}} = 22_{-1.2}^{+6} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.21 \pm 0.083$$

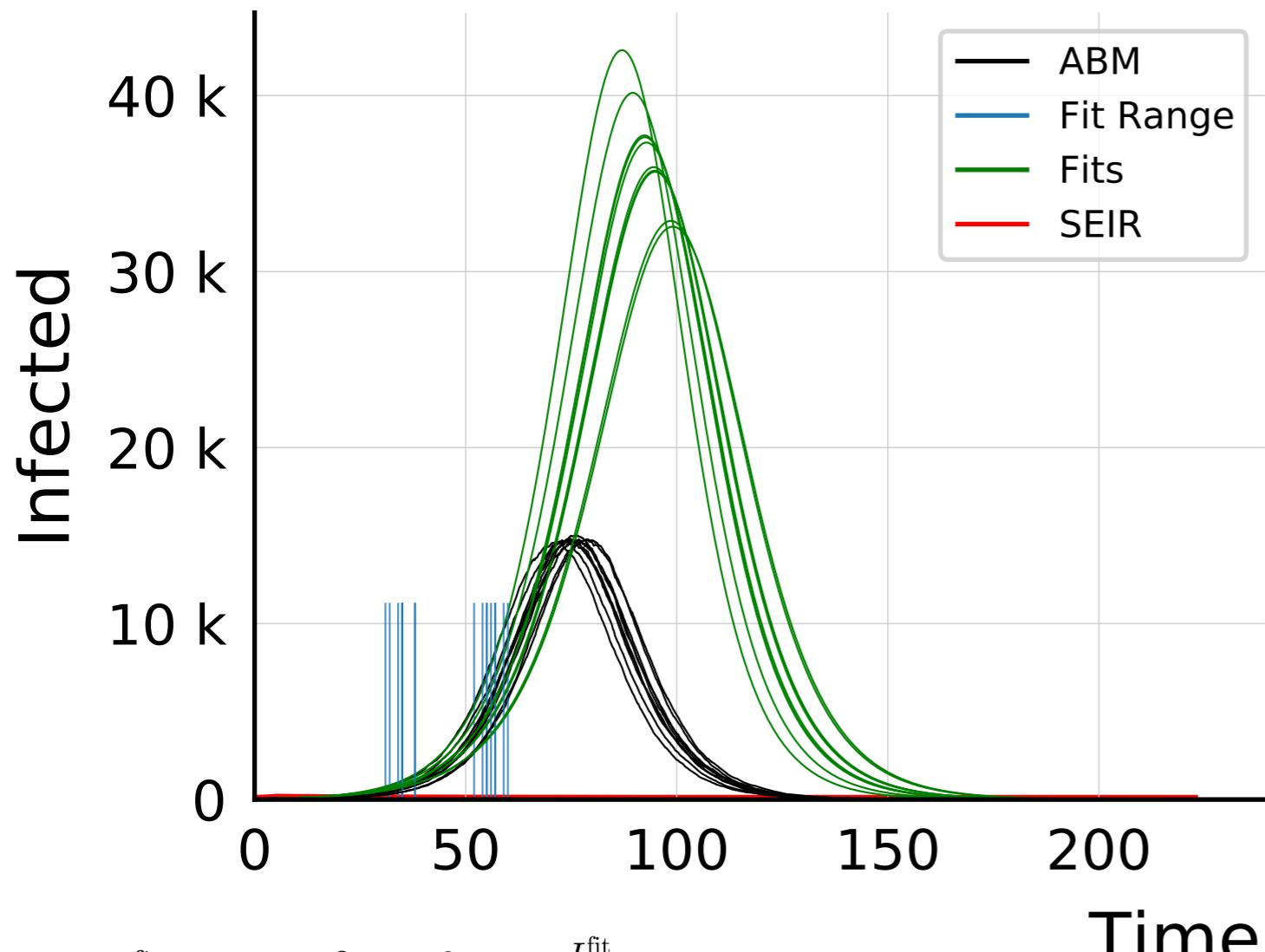


$$R_{\infty}^{\text{fit}} = 33.4_{-0.7}^{+3} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.66 \pm 0.038$$

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

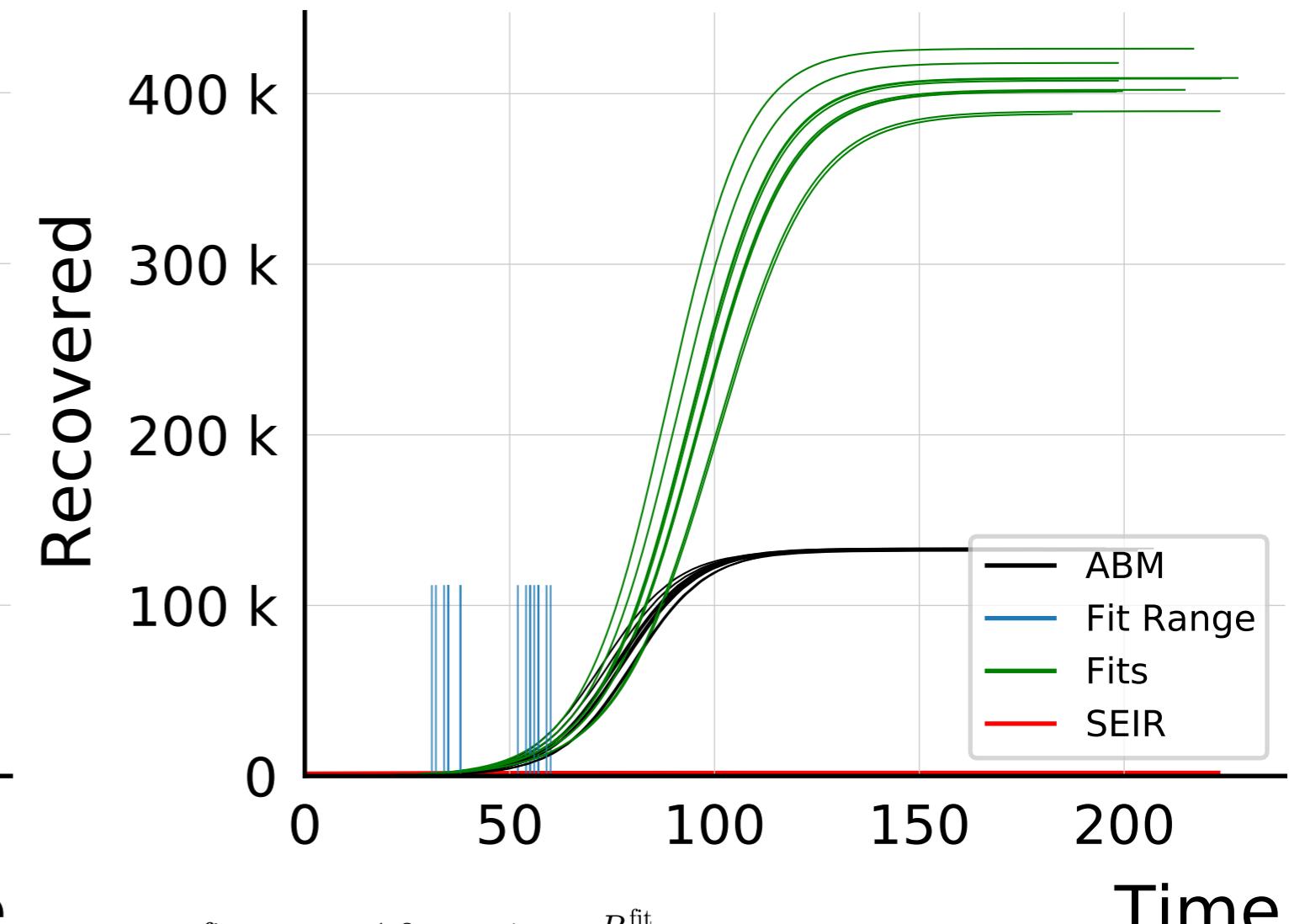


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 37^{+3}_{-4} \cdot 10^3$$

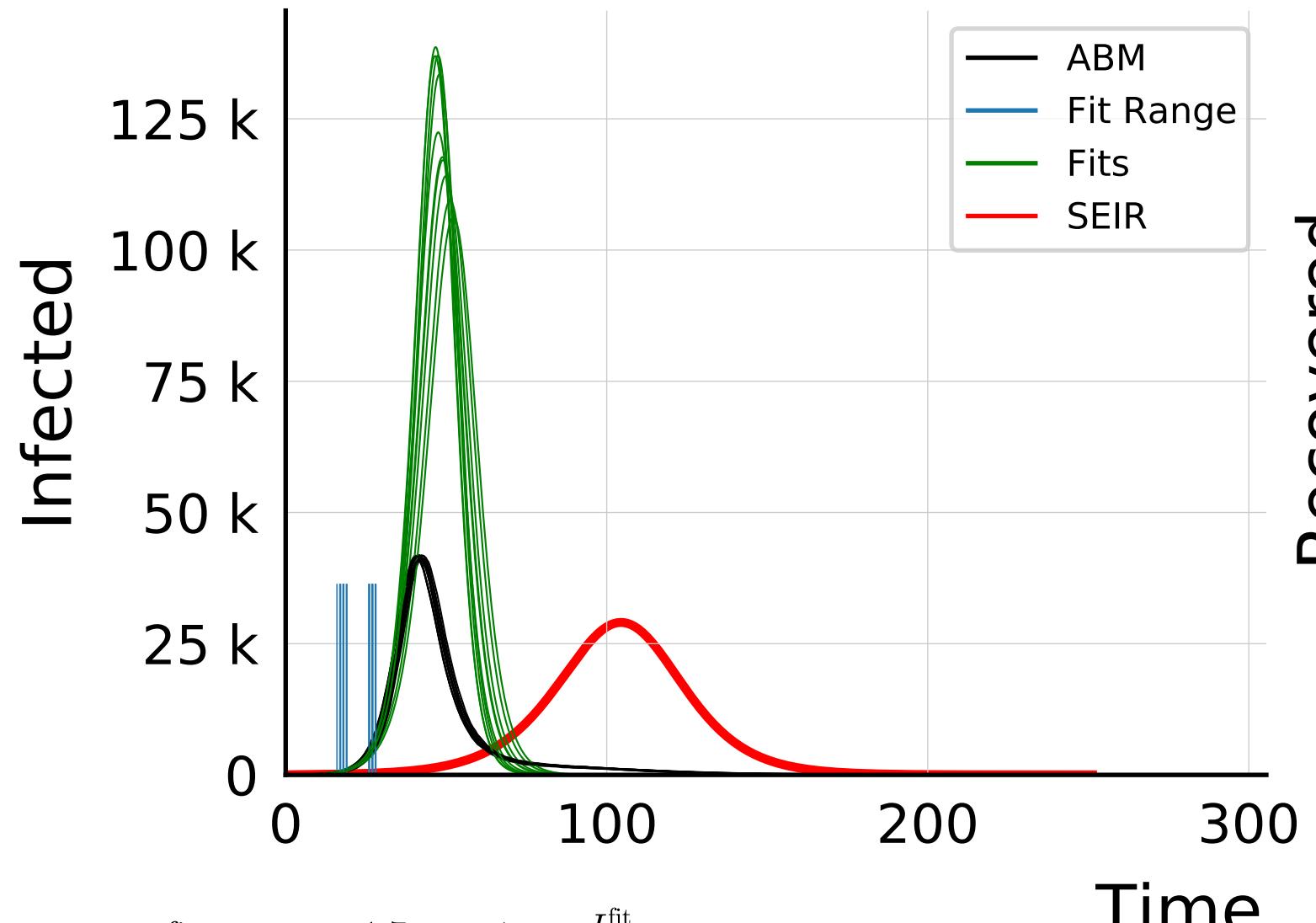
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.49 \pm 0.064$$



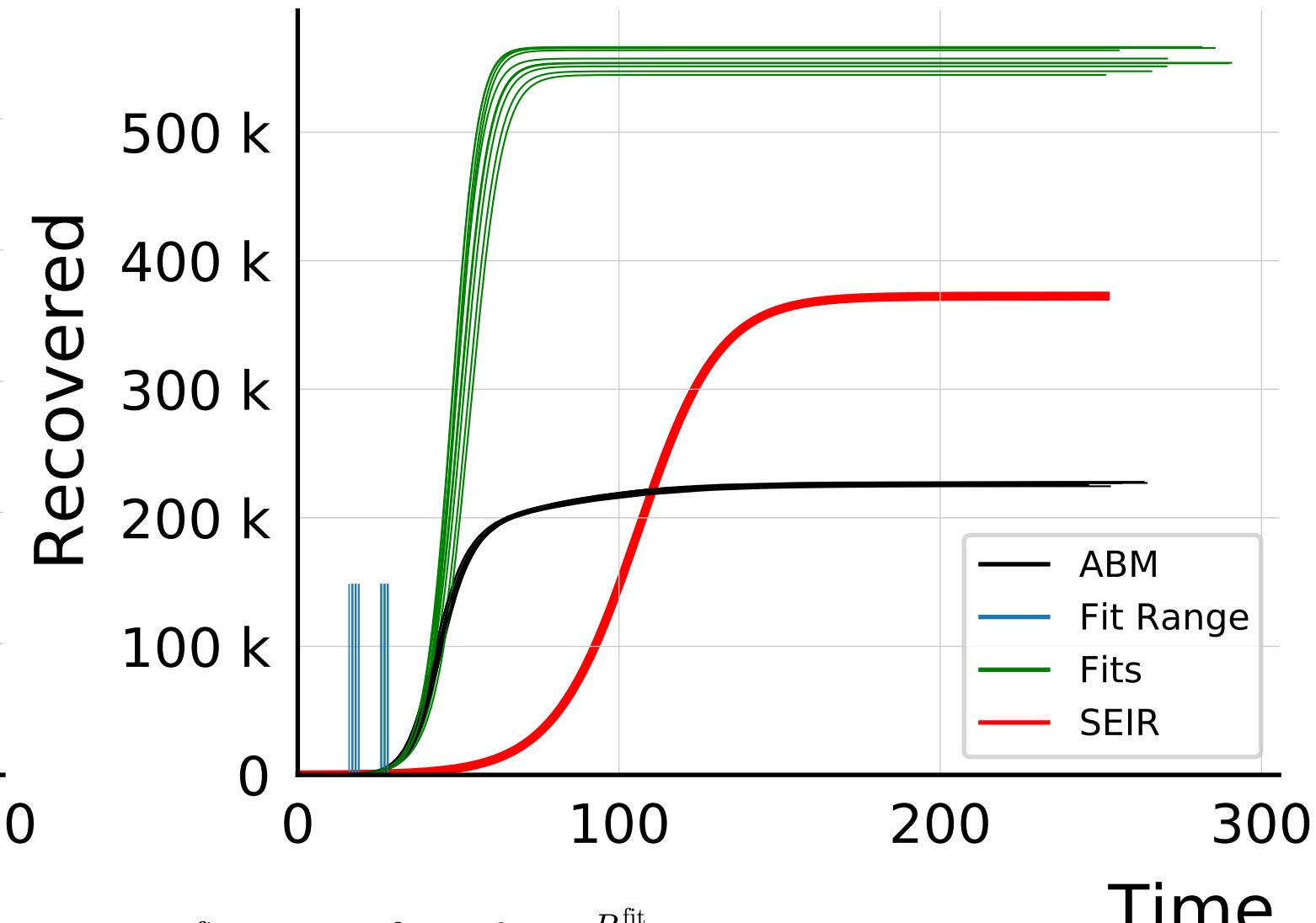
$$R_{\infty}^{\text{fit}} = 40^{+1.3}_{-1.5} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 3.05 \pm 0.027$$

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

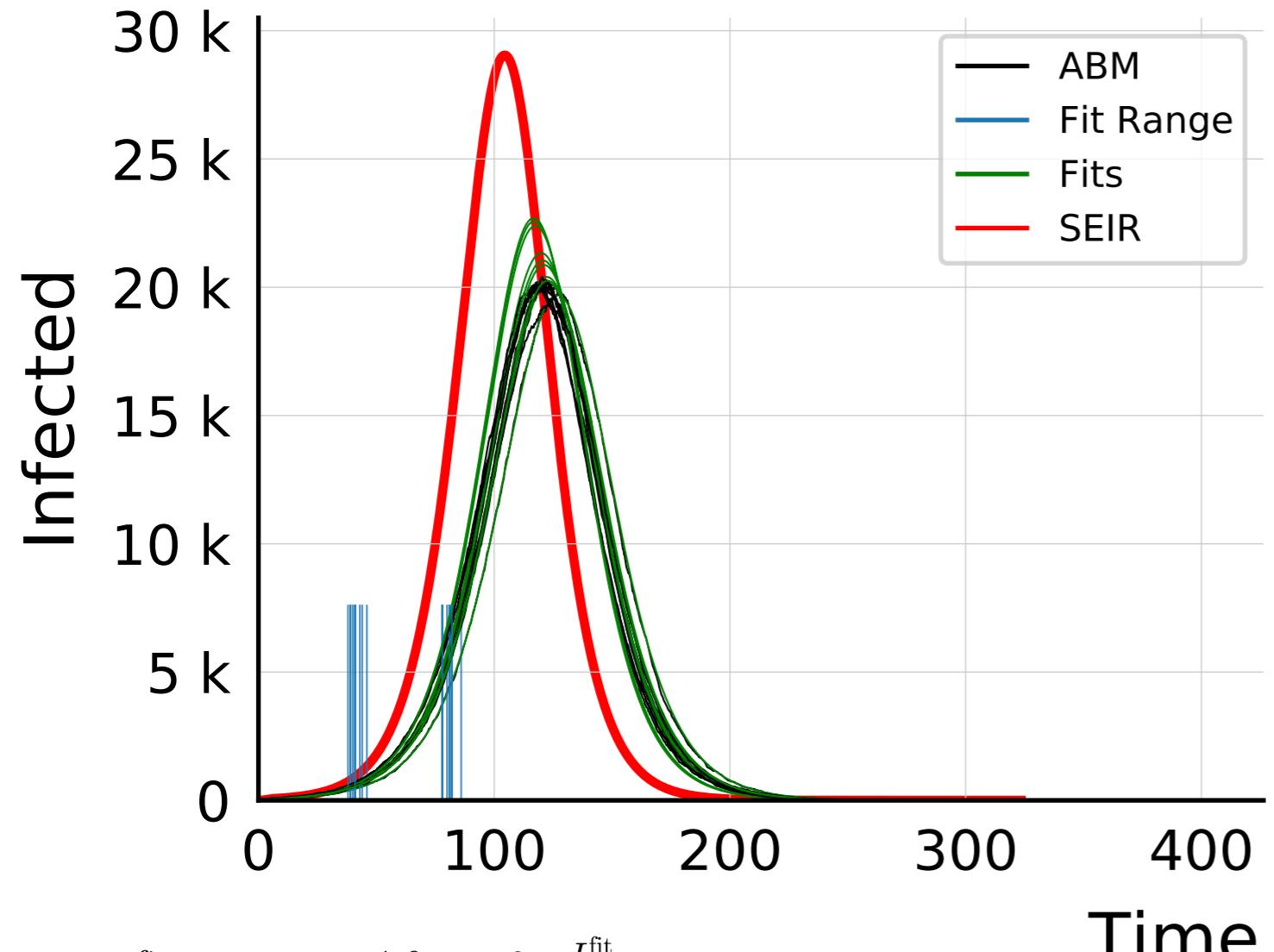


$$I_{\max}^{\text{fit}} = 12_{-1.1}^{+1.7} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.97 \pm 0.092$$

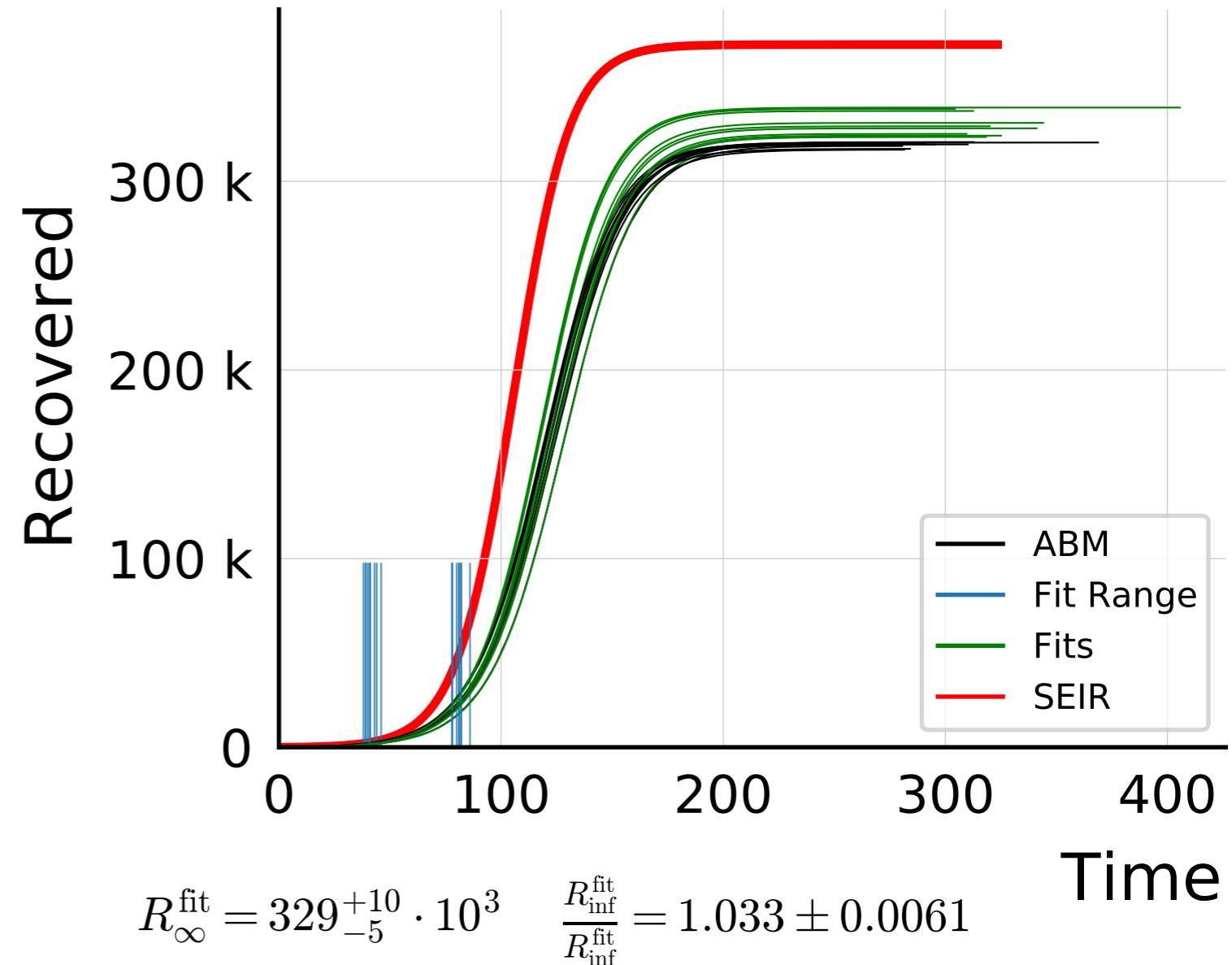


$$R_{\infty}^{\text{fit}} = 556_{-9}^{+9} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.46 \pm 0.011$$

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

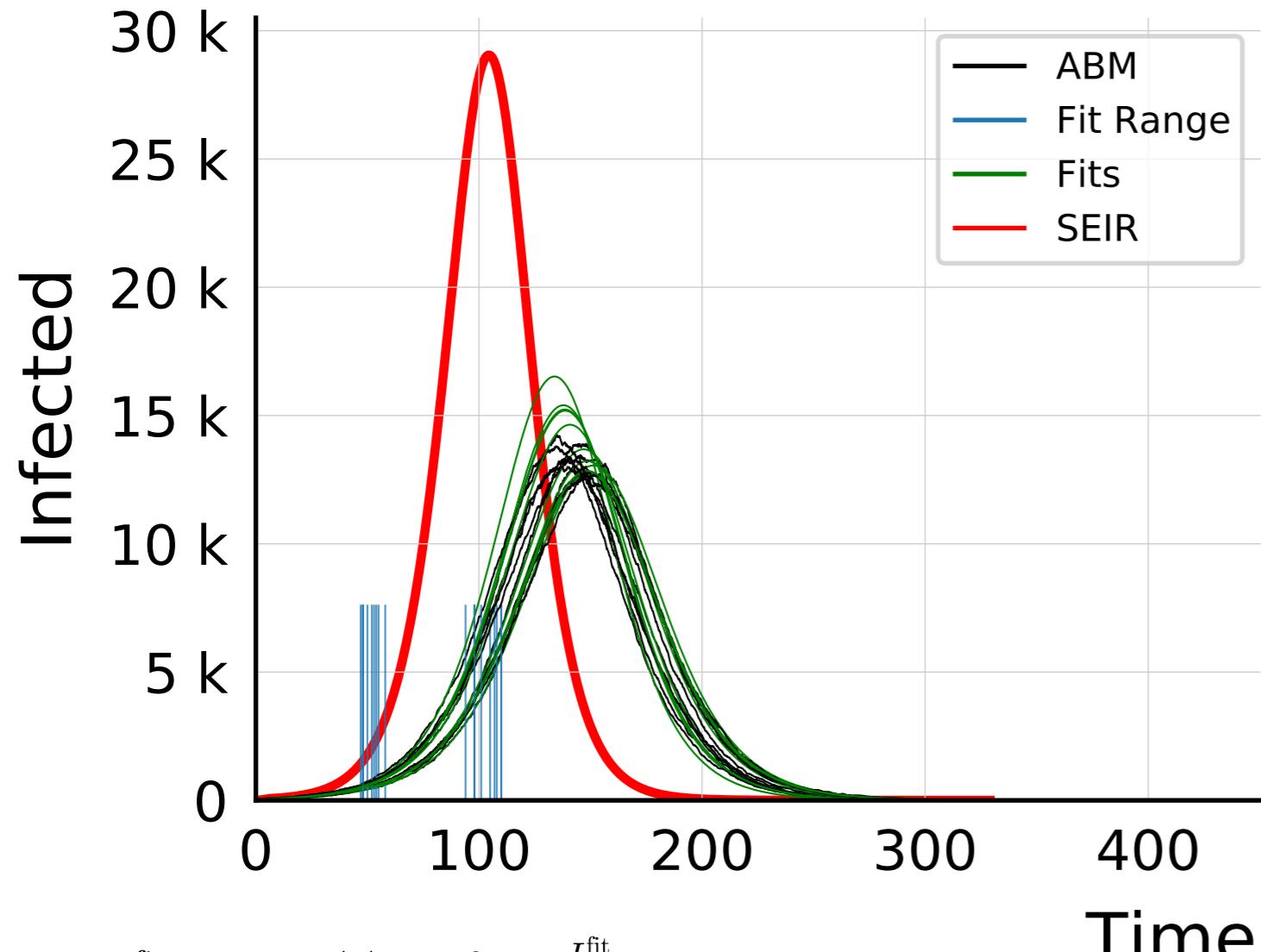


$$I_{\max}^{\text{fit}} = 21.0_{-0.8}^{+1.6} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.05 \pm 0.015$$

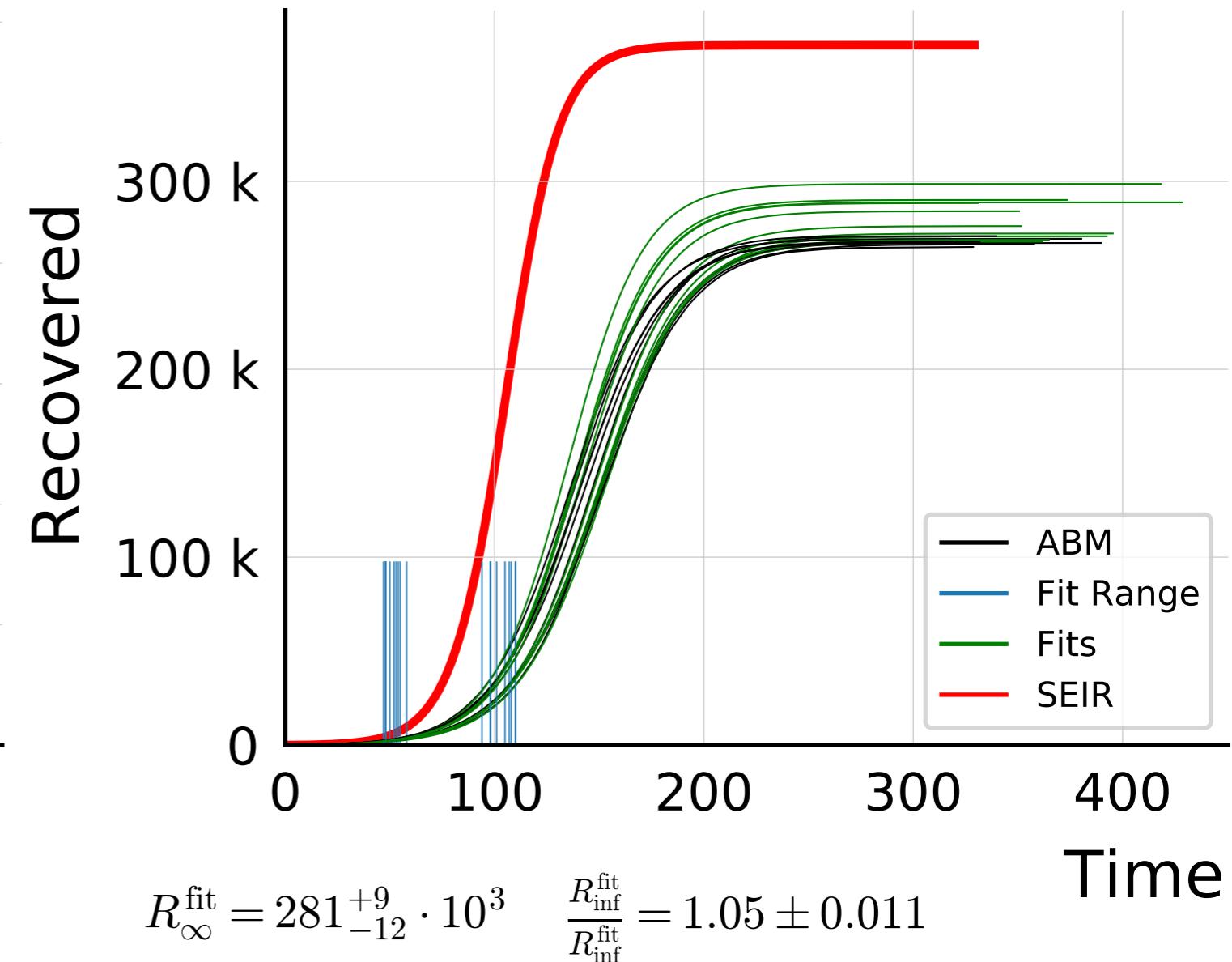


$$R_{\infty}^{\text{fit}} = 329_{-5}^{+10} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.033 \pm 0.0061$$

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

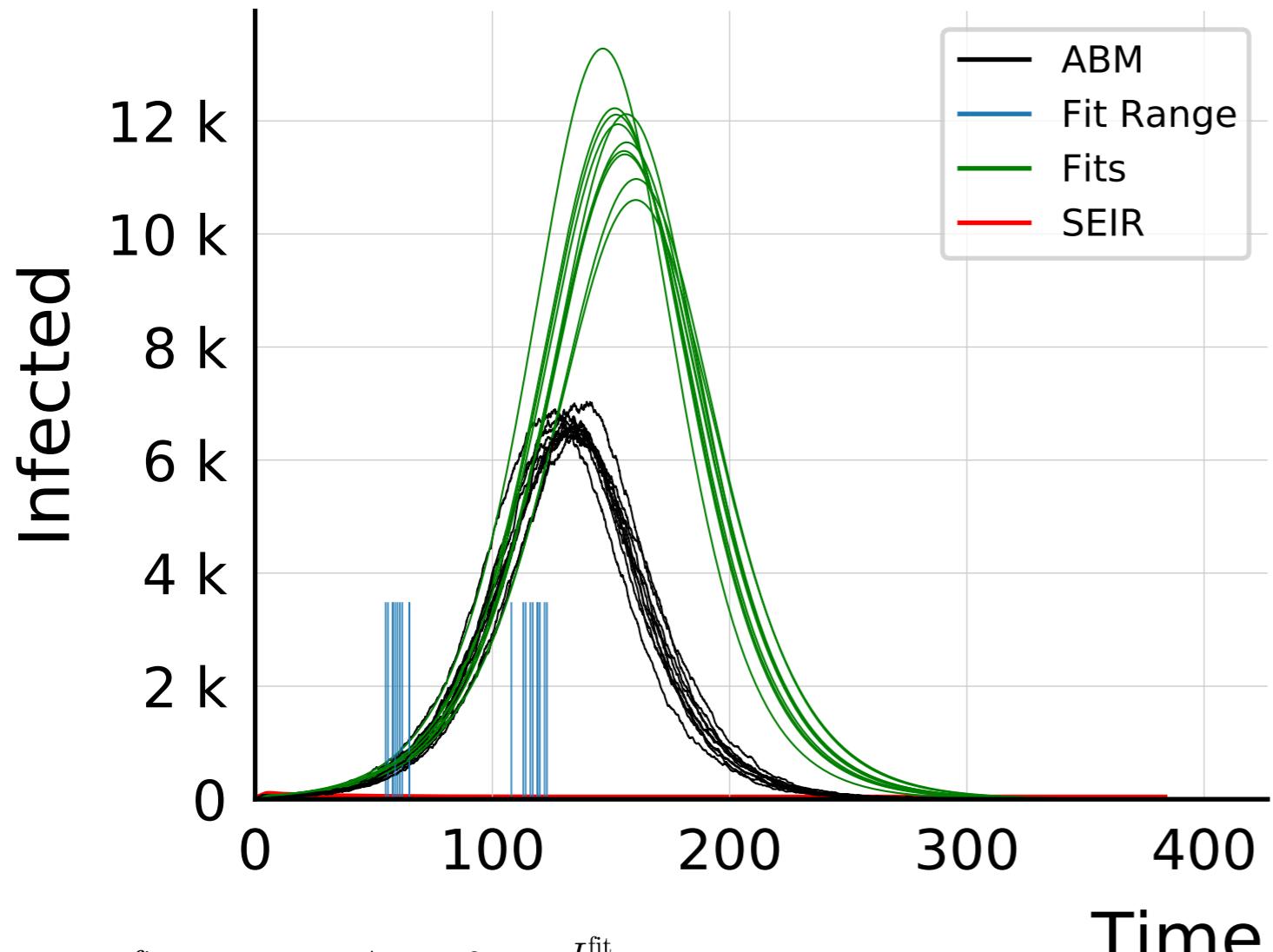


$$I_{\max}^{\text{fit}} = 14^{+1.1}_{-1.5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.07 \pm 0.024$$

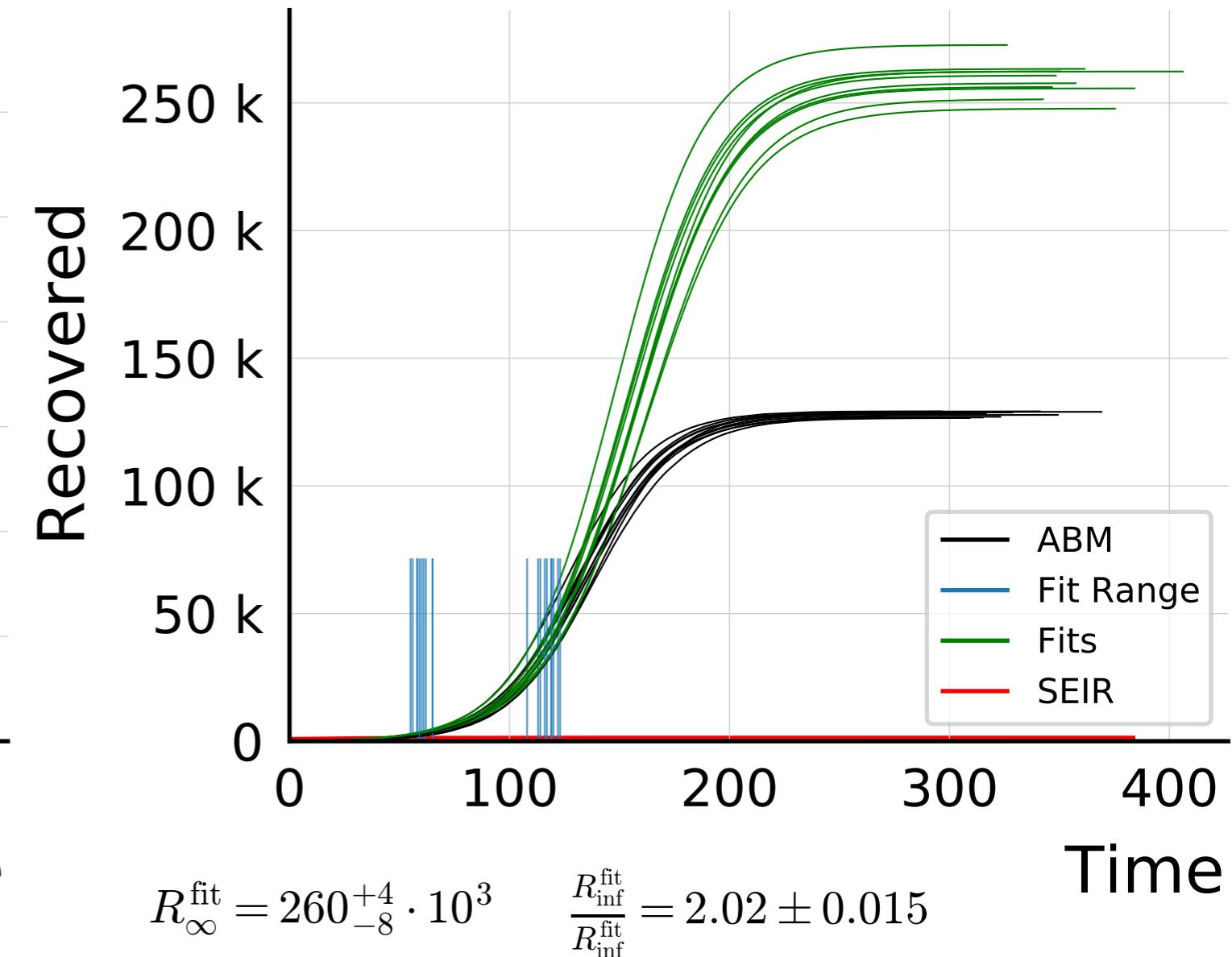


$$R_{\infty}^{\text{fit}} = 281^{+9}_{-12} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.05 \pm 0.011$$

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

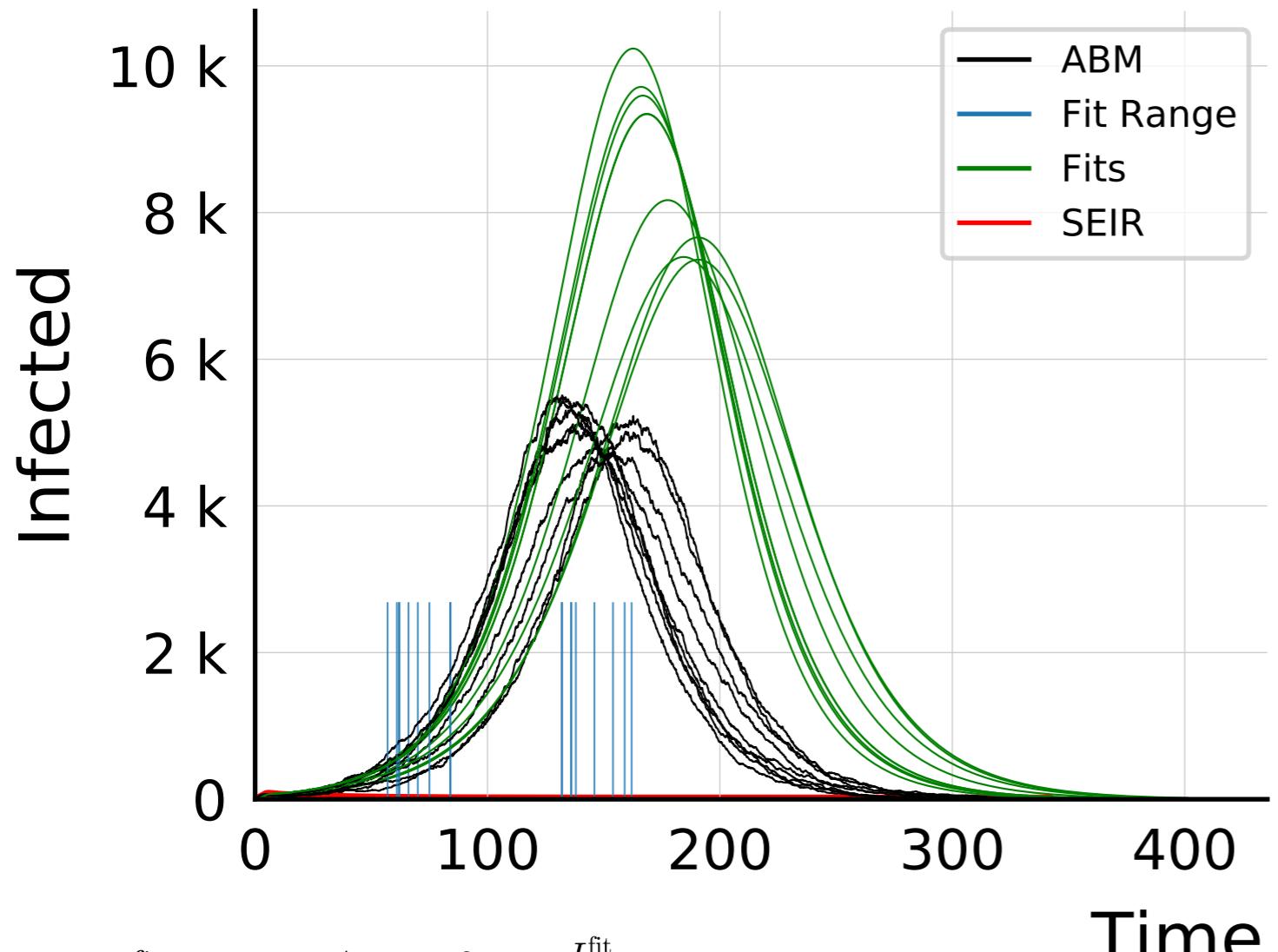


$$I_{\max}^{\text{fit}} = 118_{-8}^{+4} \cdot 10^2 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.76 \pm 0.033$$



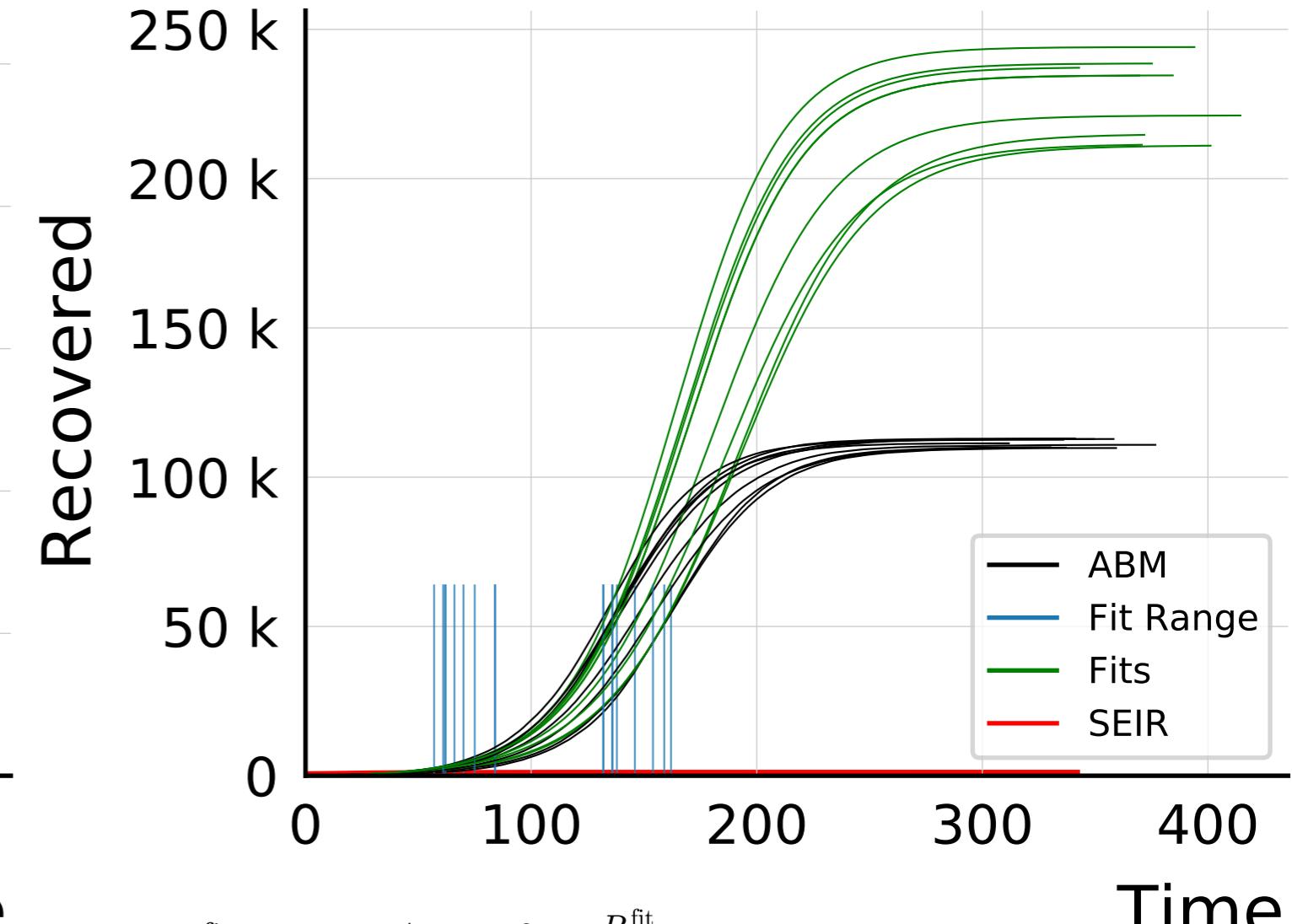
$$R_{\infty}^{\text{fit}} = 260_{-8}^{+4} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.02 \pm 0.015$$

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



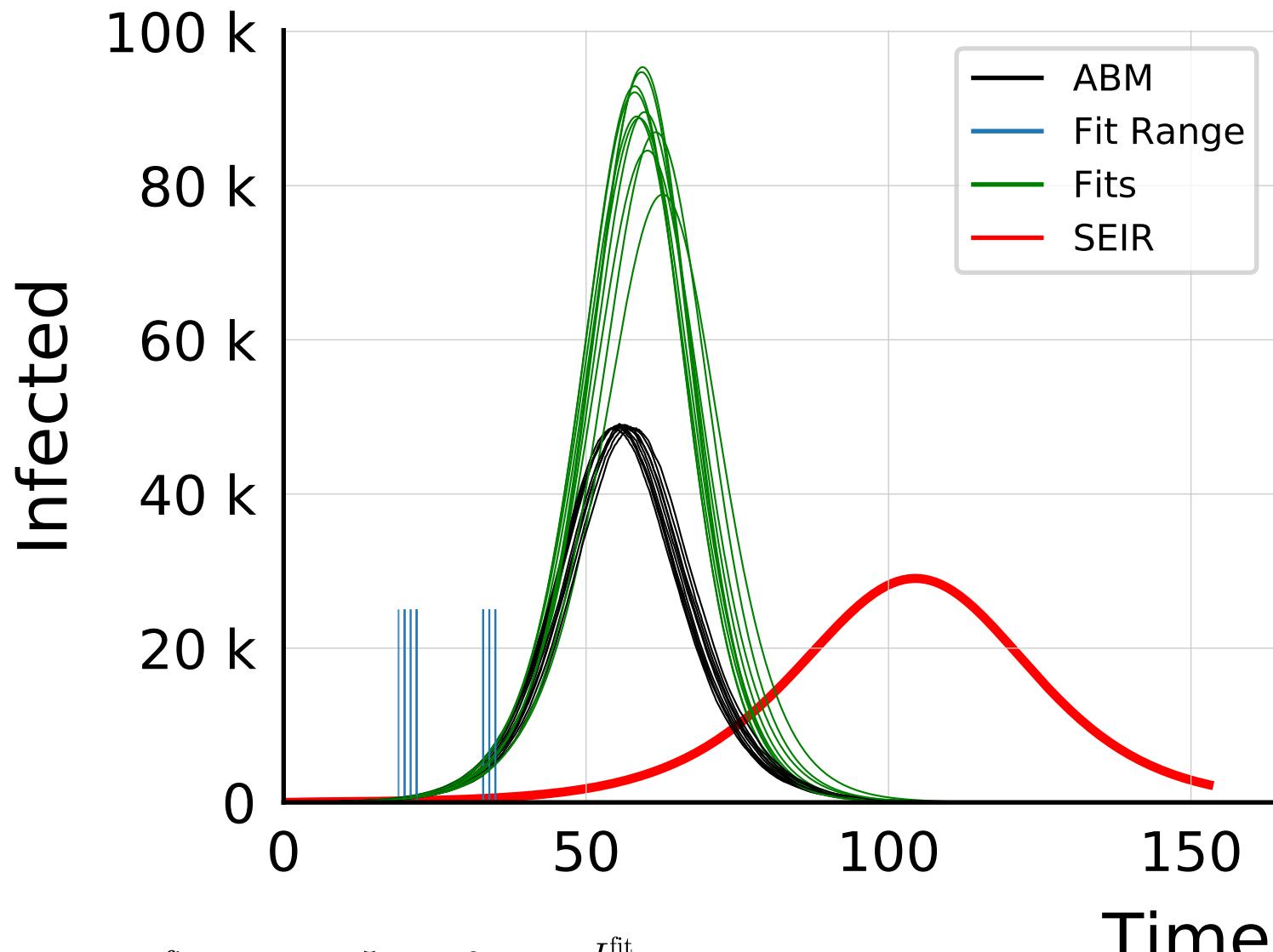
$$I_{\max}^{\text{fit}} = 93^{+4}_{-19} \cdot 10^2$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.7 \pm 0.050$$



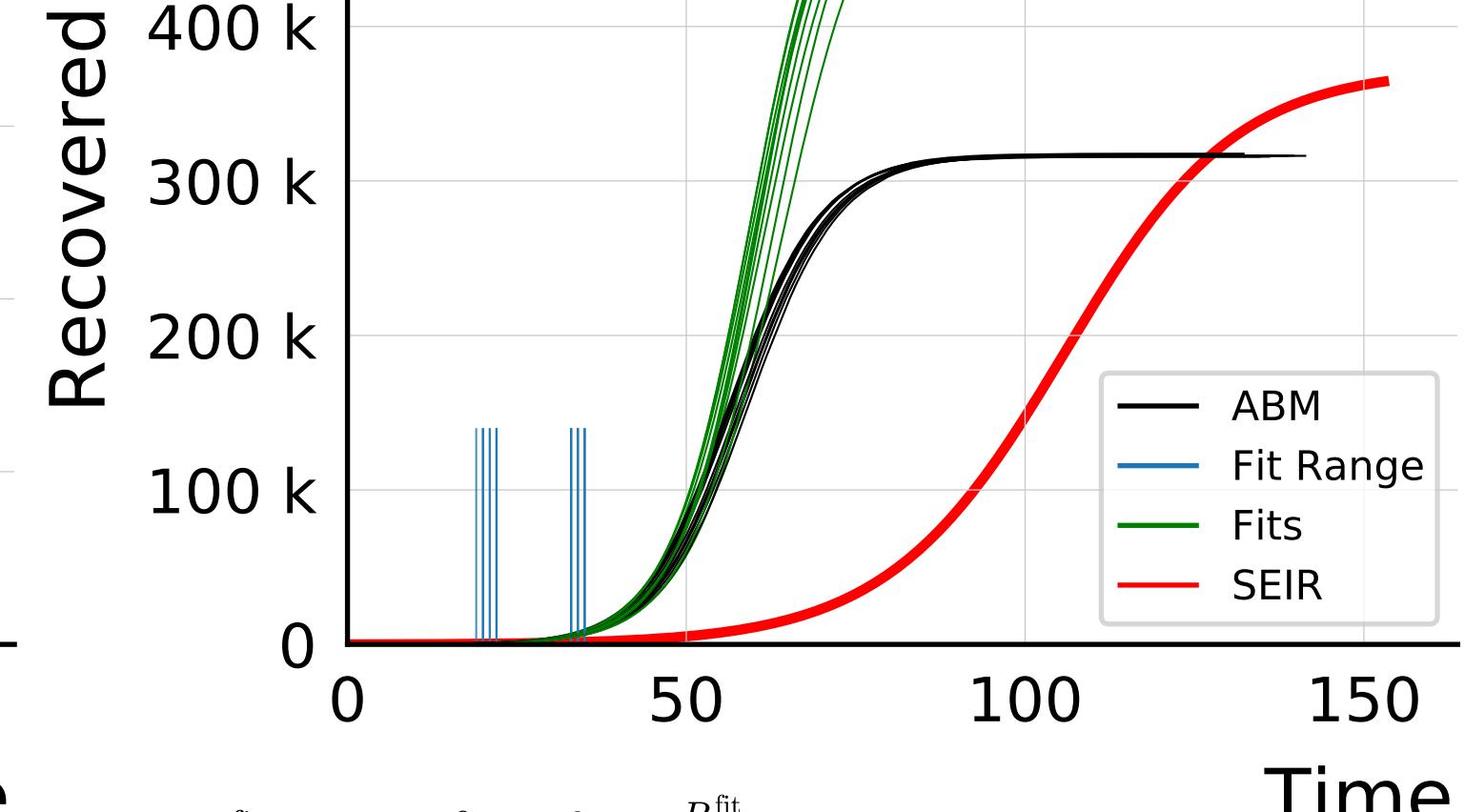
$$R_{\infty}^{\text{fit}} = 235^{+4}_{-20} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.04 \pm 0.029$$

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



$$I_{\max}^{\text{fit}} = 89^{+5}_{-5} \cdot 10^3$$

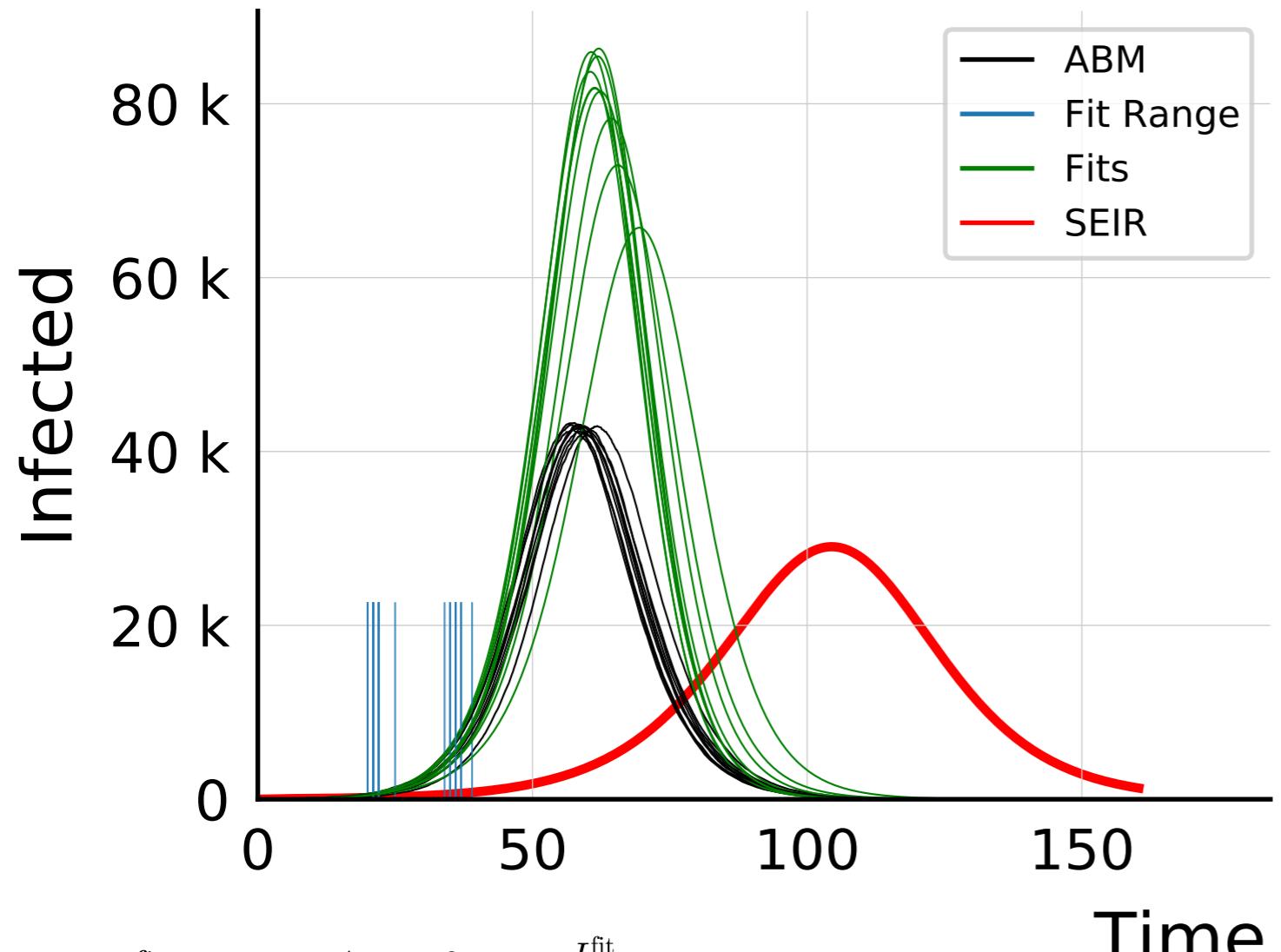
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.83 \pm 0.030$$



$$R_{\infty}^{\text{fit}} = 526^{+6}_{-6} \cdot 10^3$$

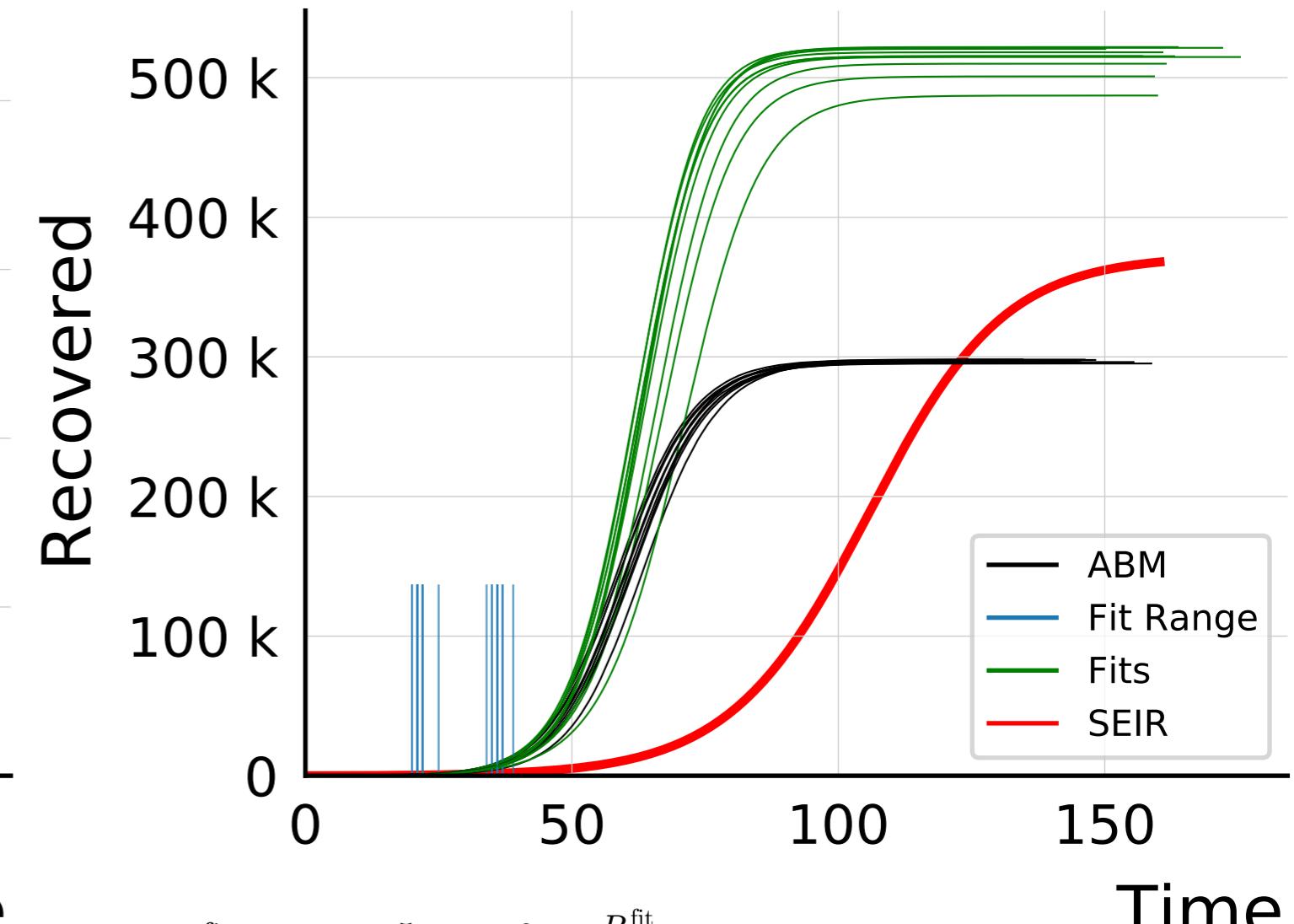
$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.661 \pm 0.0067$$

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



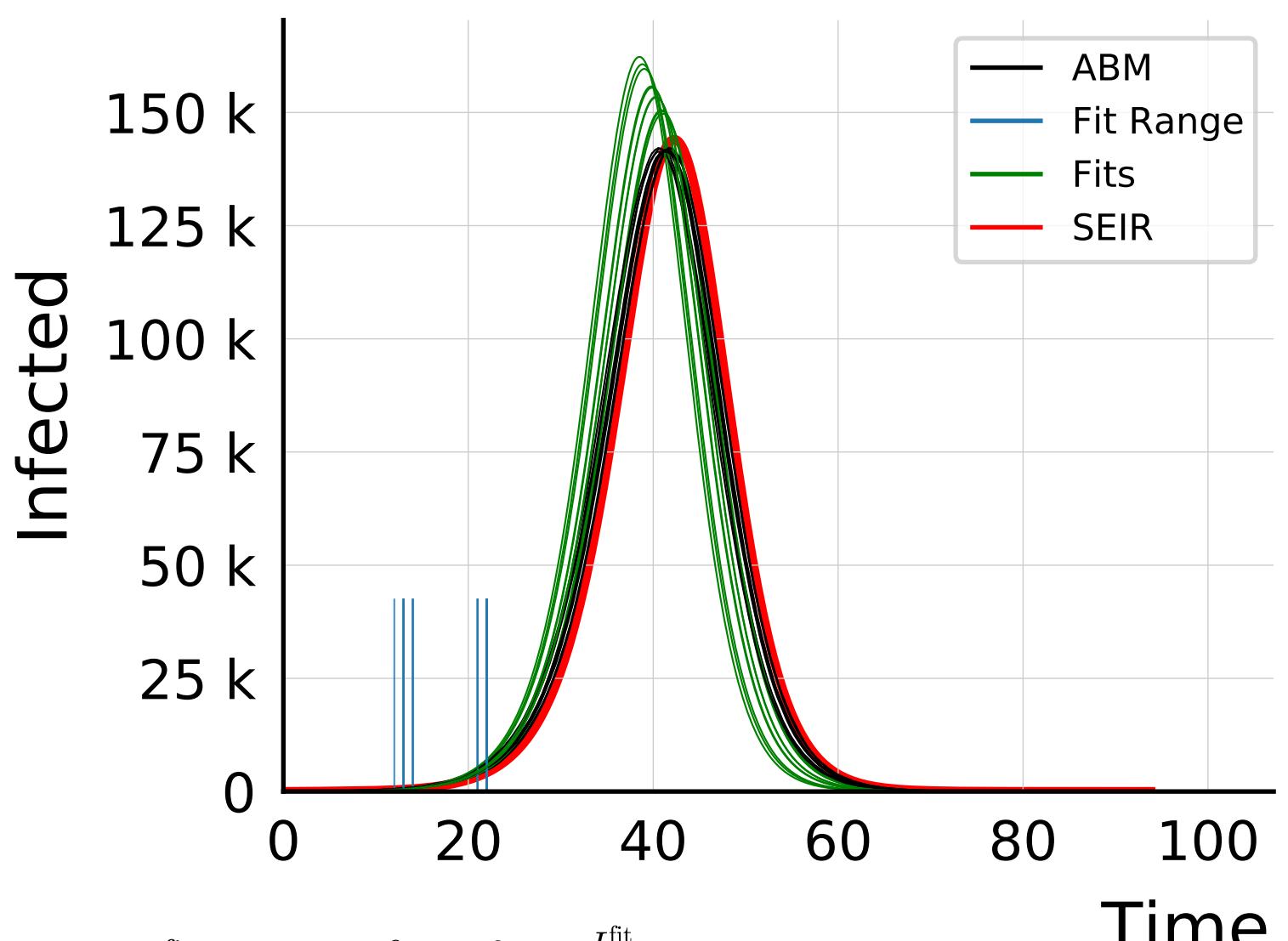
$$I_{\max}^{\text{fit}} = 82_{-9}^{+4} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.88 \pm 0.046$$



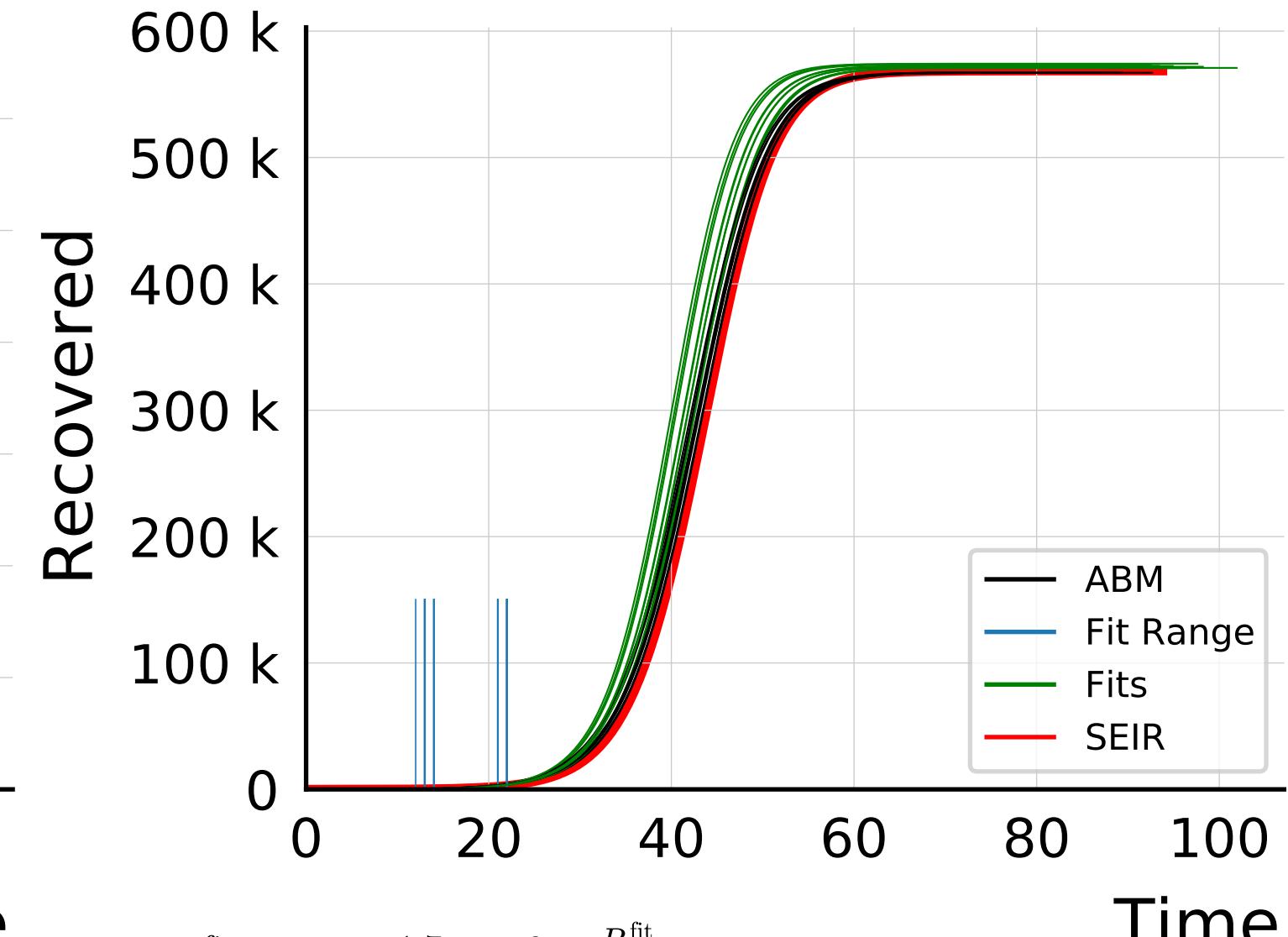
$$R_{\infty}^{\text{fit}} = 516_{-15}^{+5} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.73 \pm 0.011$$

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



$$I_{\max}^{\text{fit}} = 154_{-4}^{+6} \cdot 10^3$$

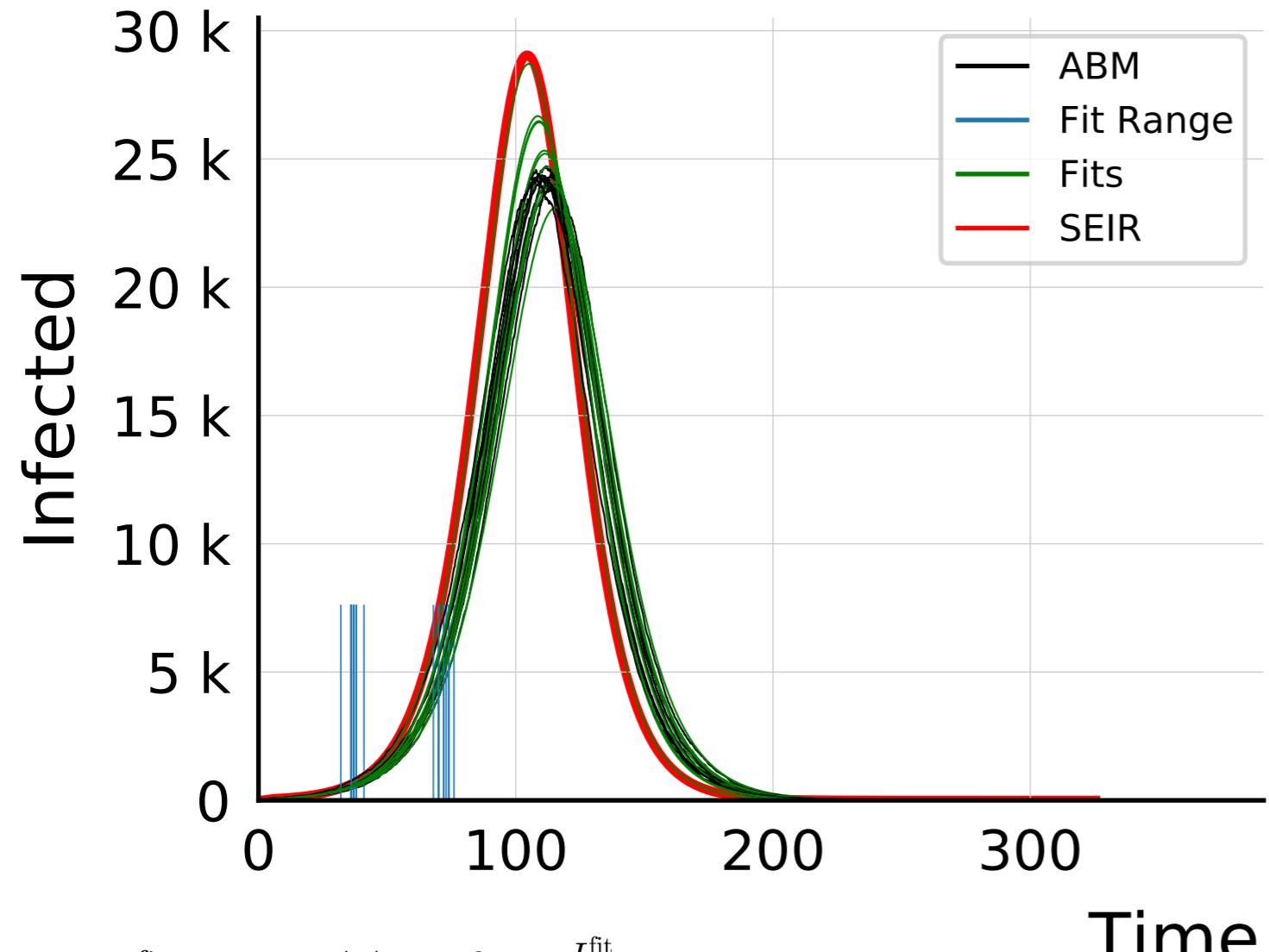
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.094 \pm 0.0096$$



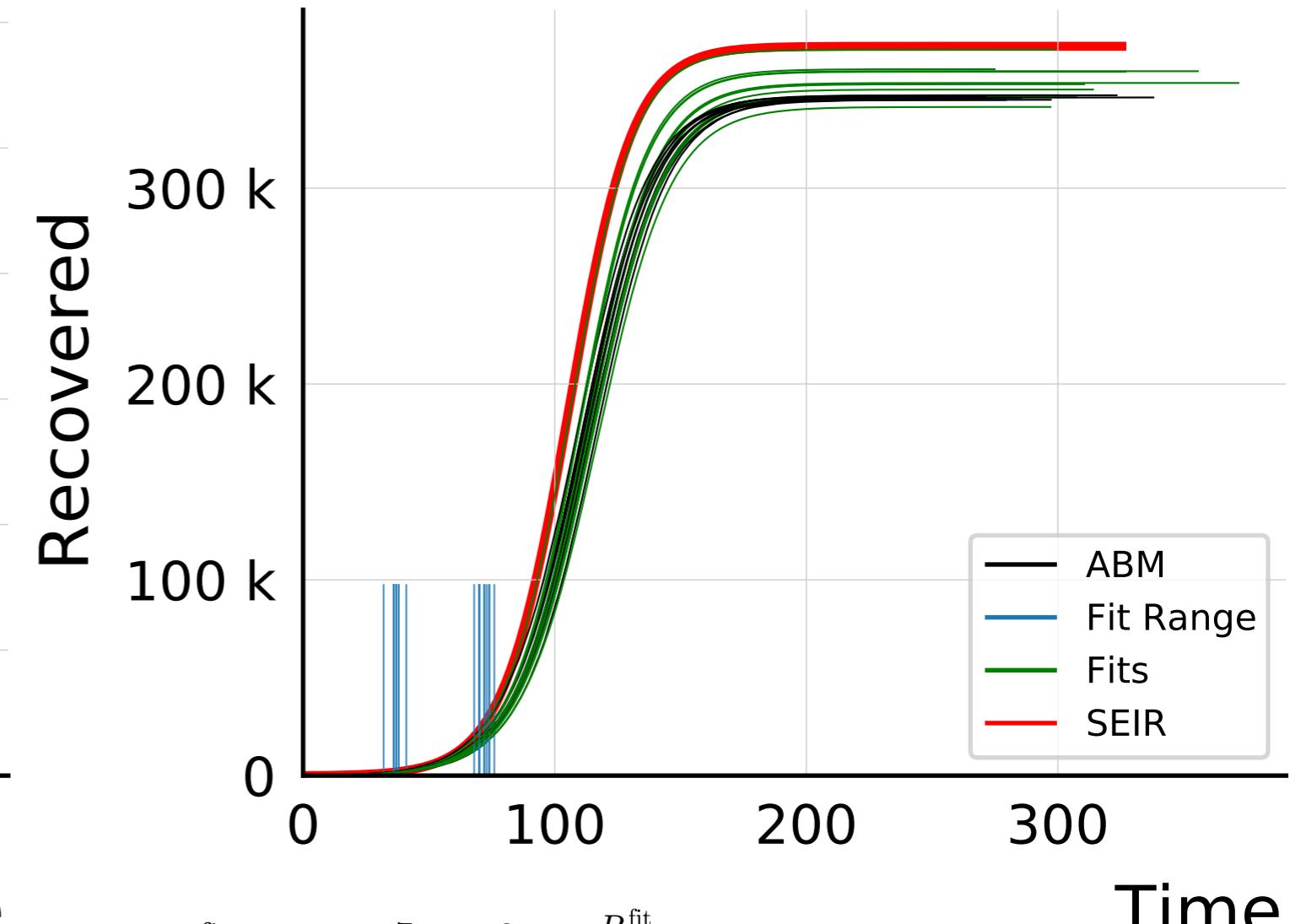
$$R_{\infty}^{\text{fit}} = 572_{-1.3}^{+1.7} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.0089 \pm 0.00066$$

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

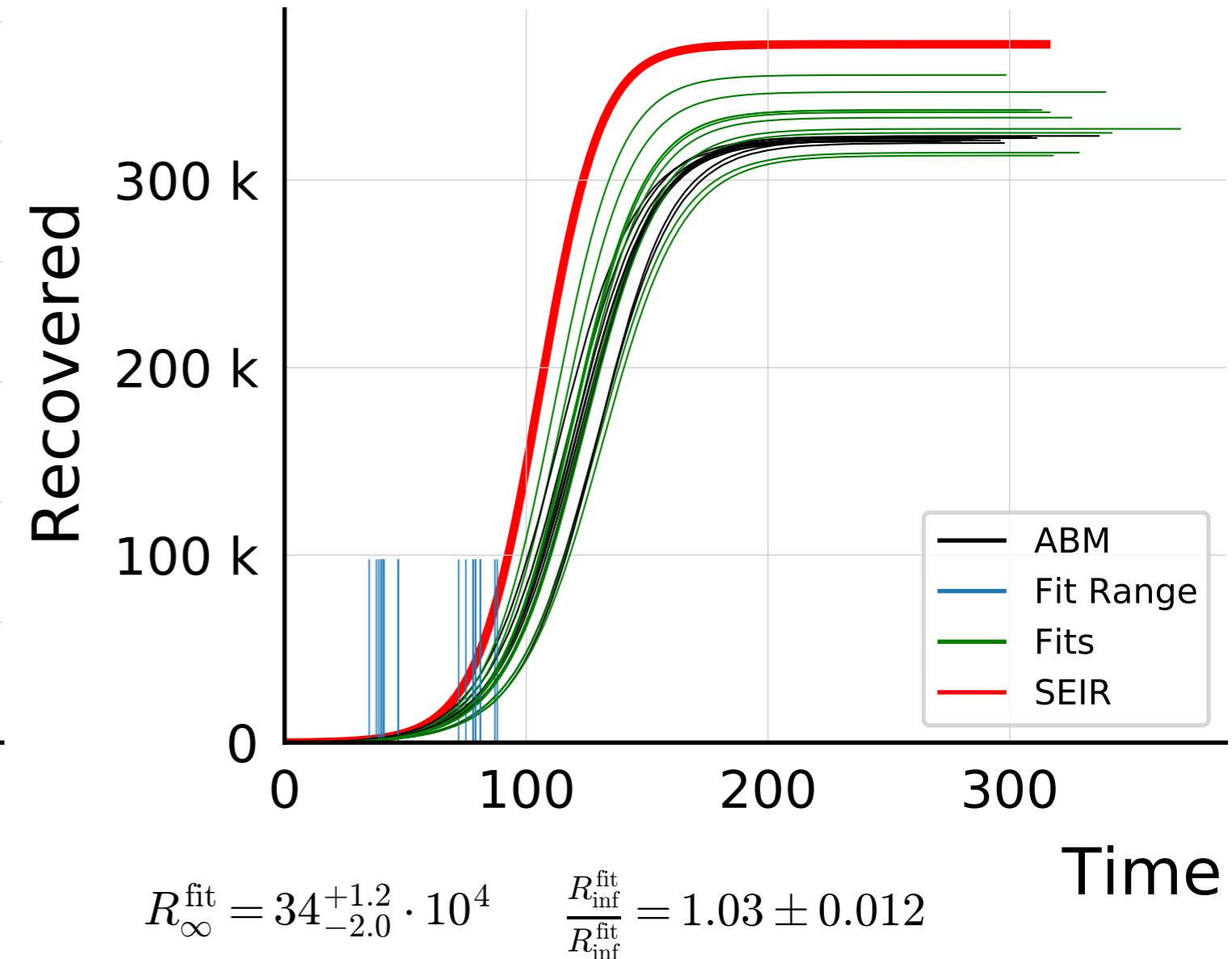
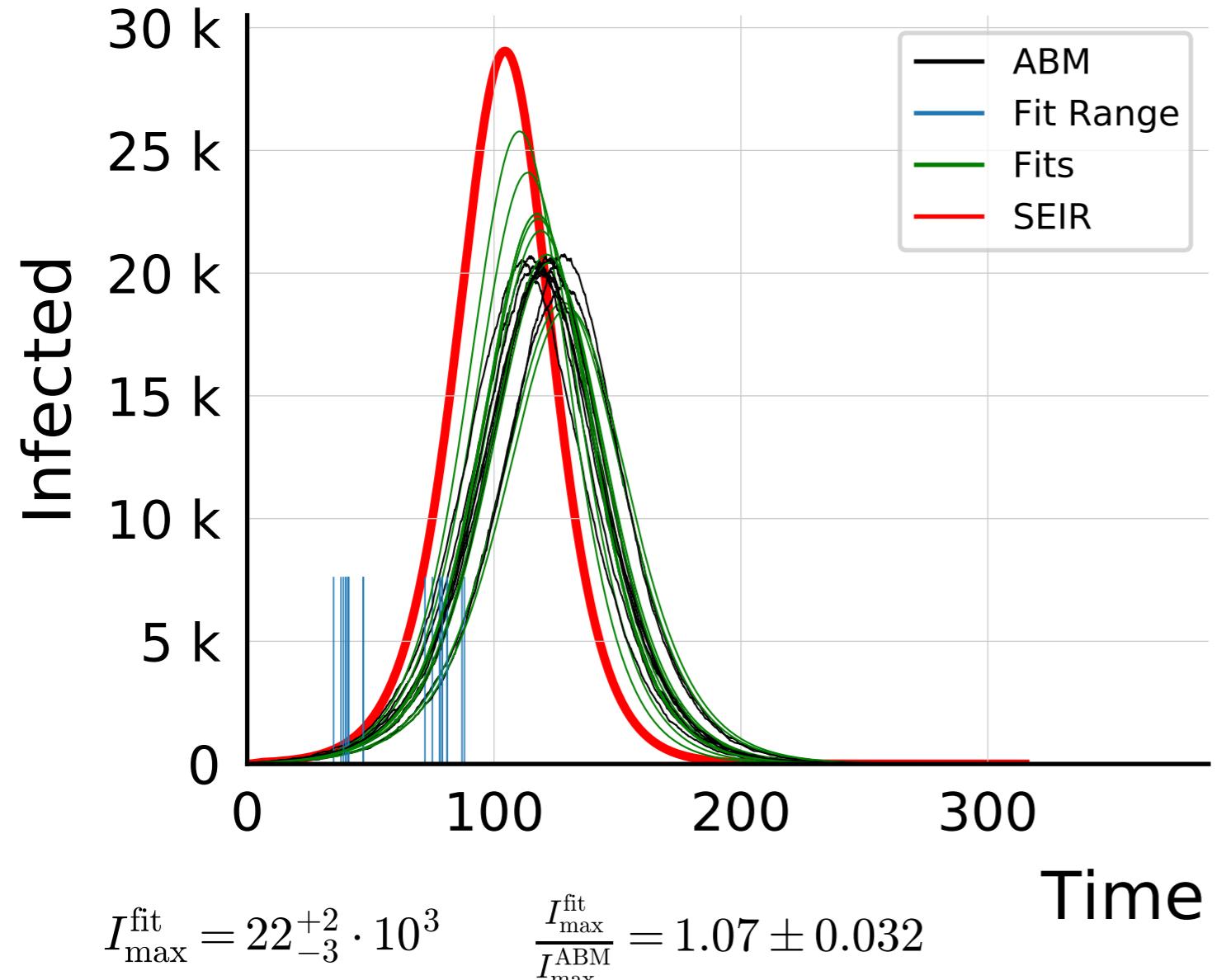


$$I_{\max}^{\text{fit}} = 25^{+1.4}_{-1.3} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.05 \pm 0.019$$

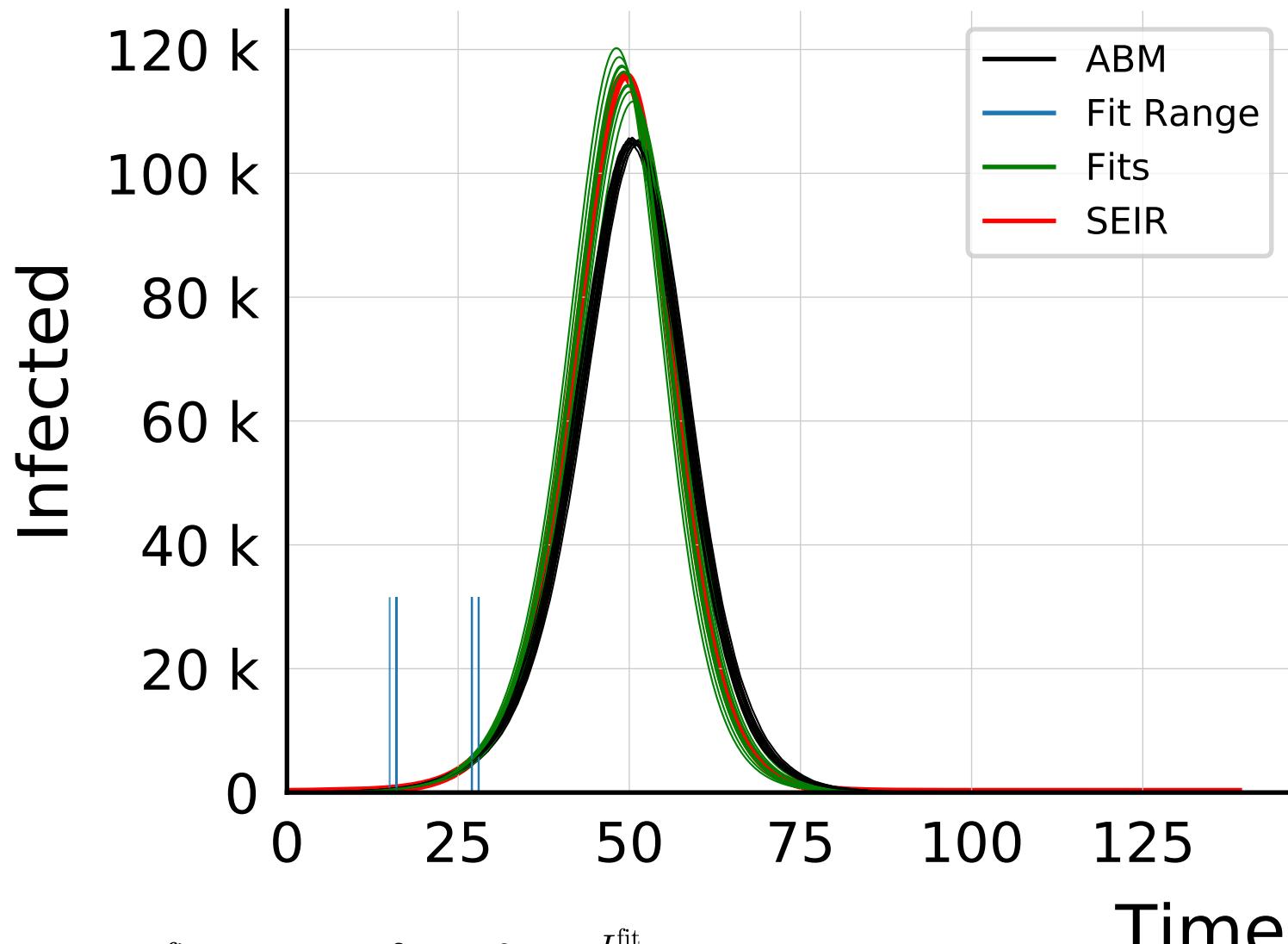


$$R_{\infty}^{\text{fit}} = 353^{+7}_{-7} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.023 \pm 0.0071$$

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

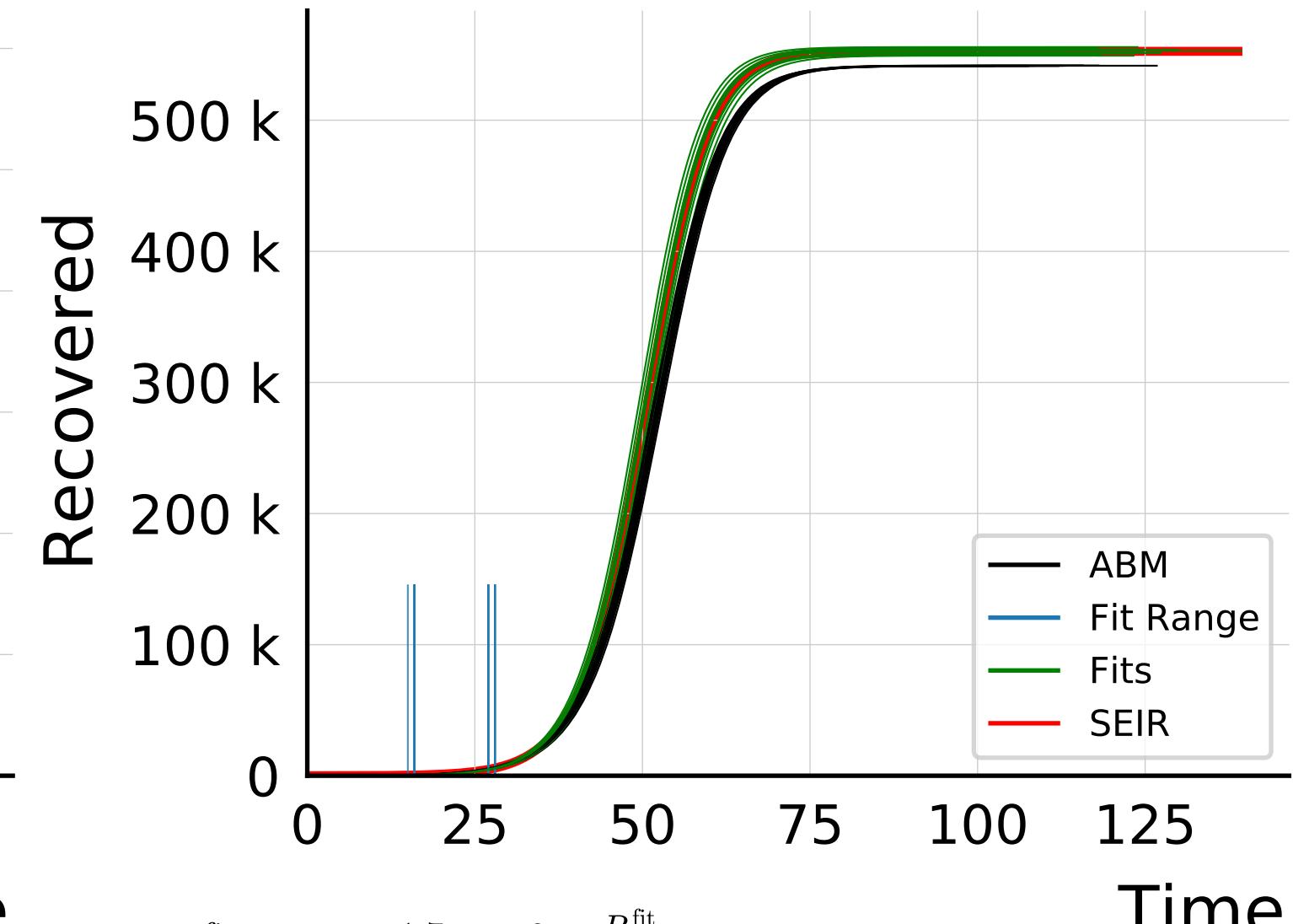


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 116_{-3}^{+2} \cdot 10^3$$

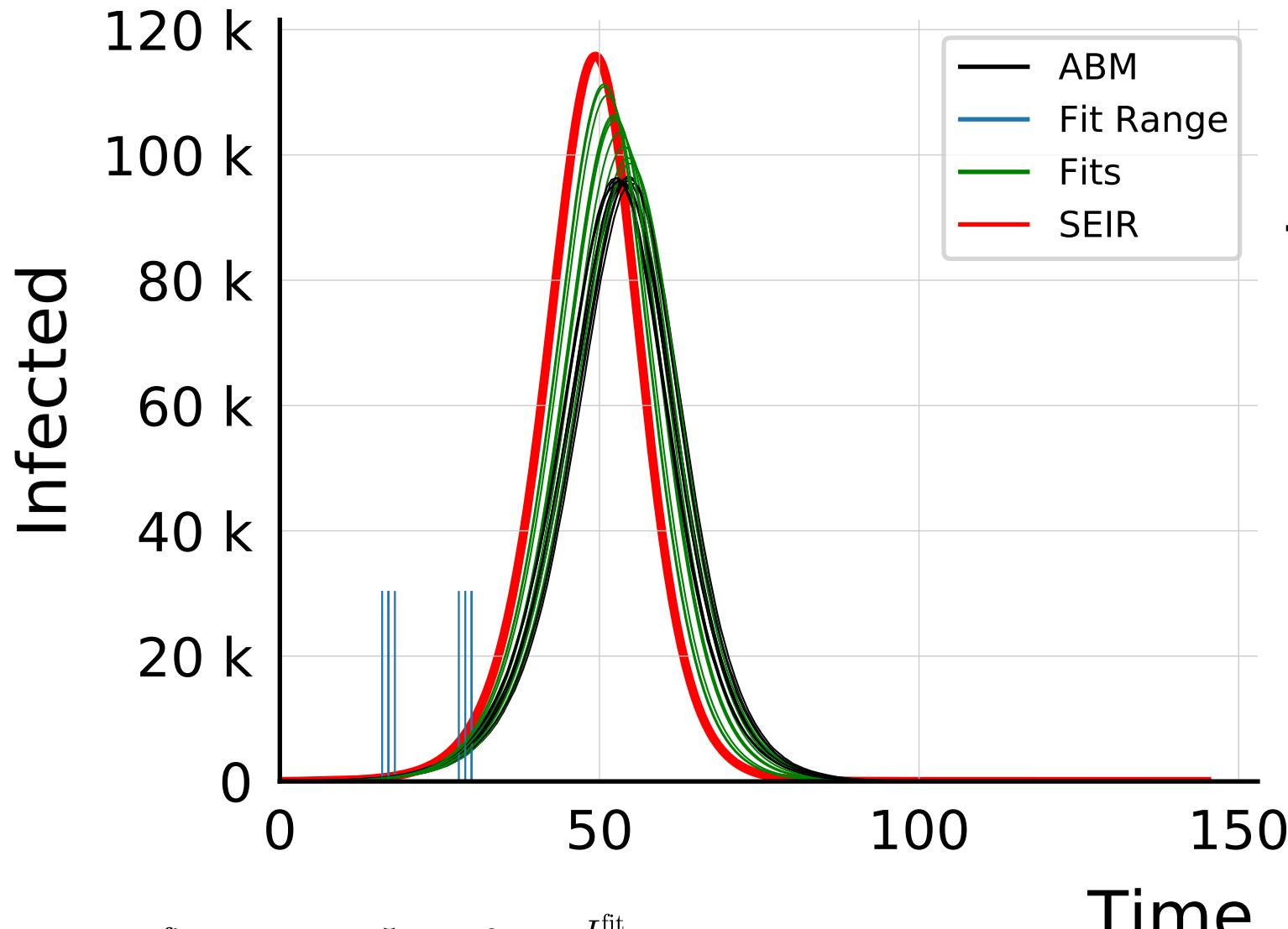
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.103 \pm 0.0071$$



$$R_{\infty}^{\text{fit}} = 553_{-3}^{+1.7} \cdot 10^3$$

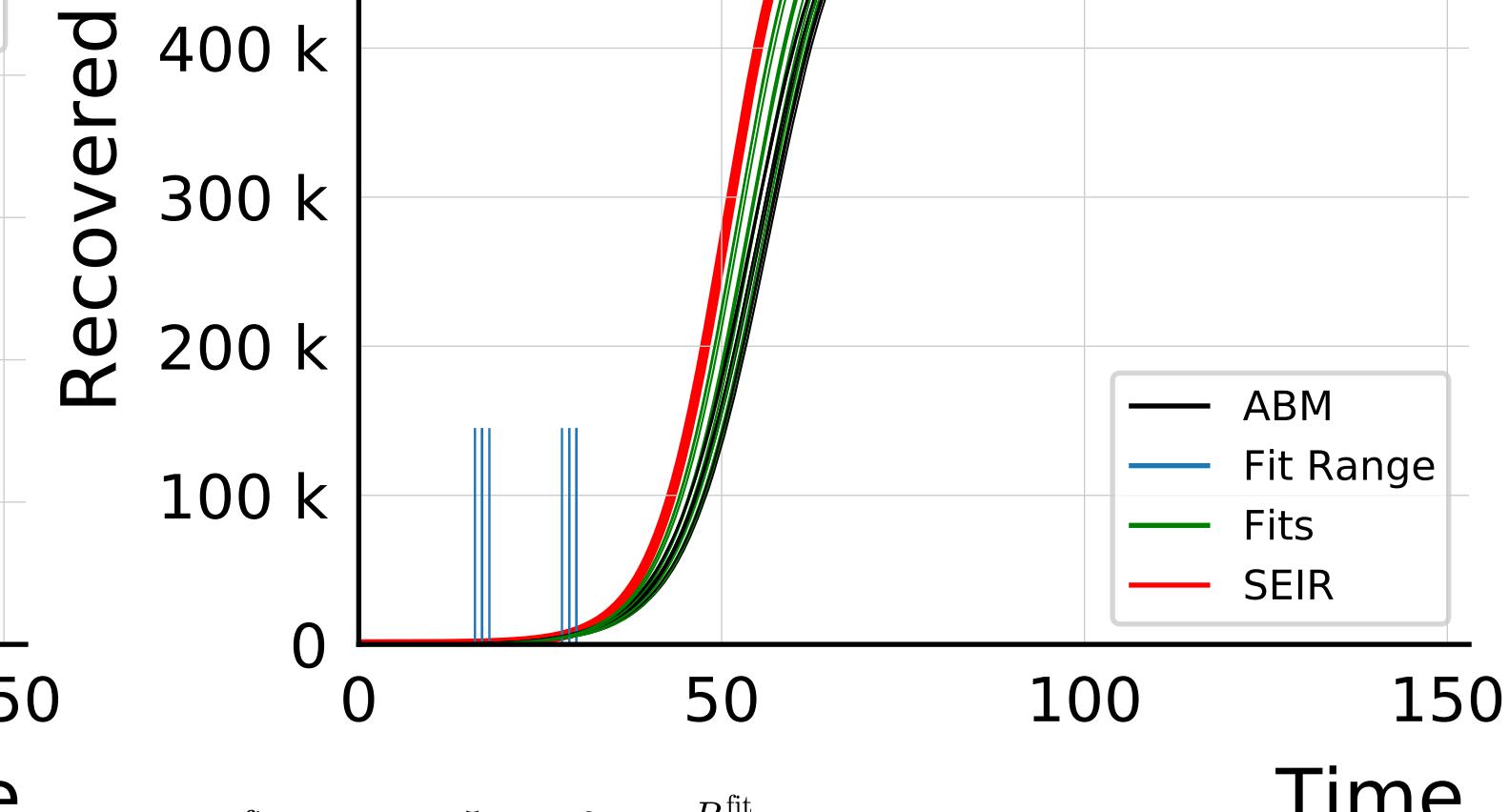
$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.021 \pm 0.0011$$

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



$$I_{\max}^{\text{fit}} = 106_{-6}^{+5} \cdot 10^3$$

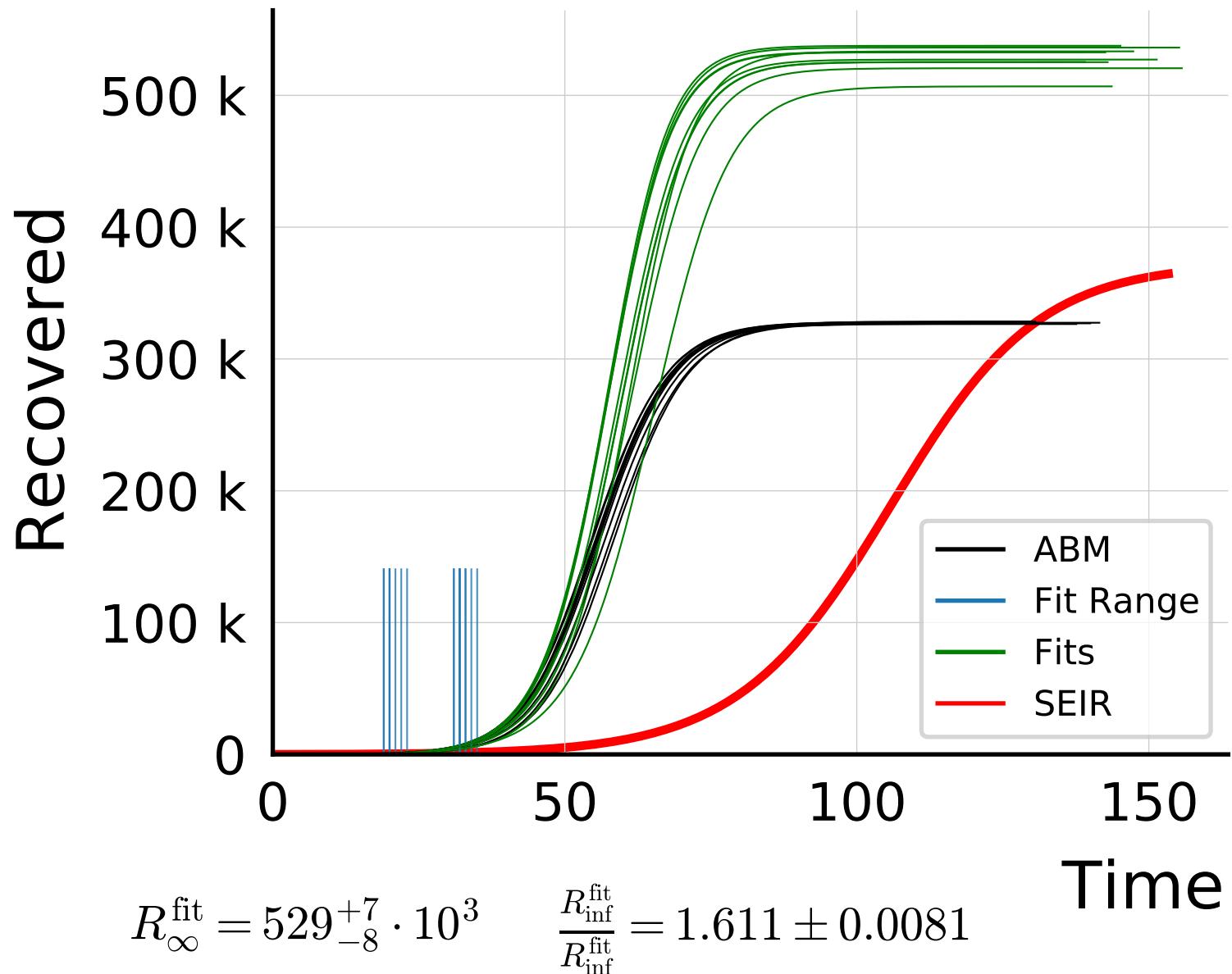
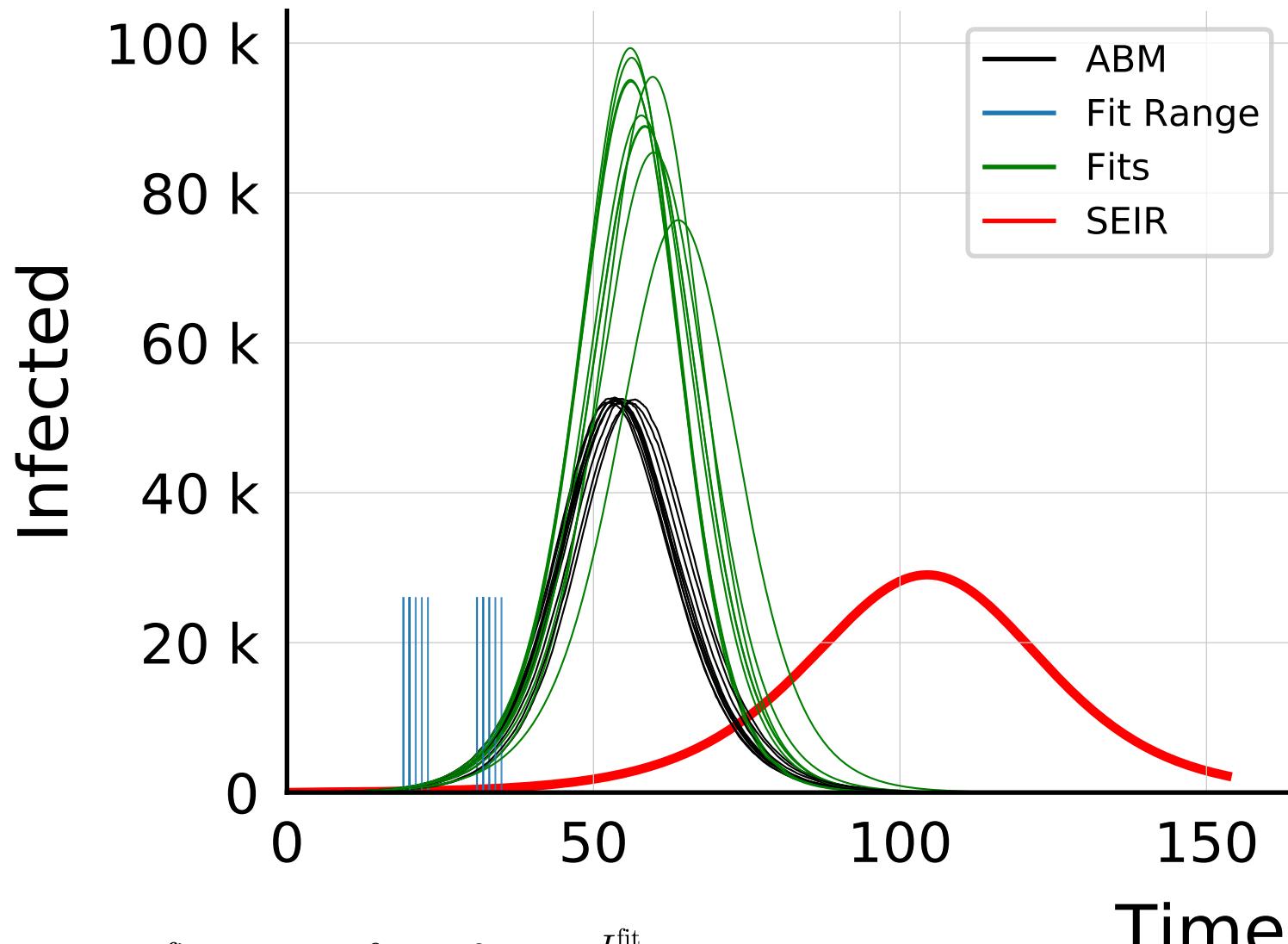
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.1 \pm 0.014$$



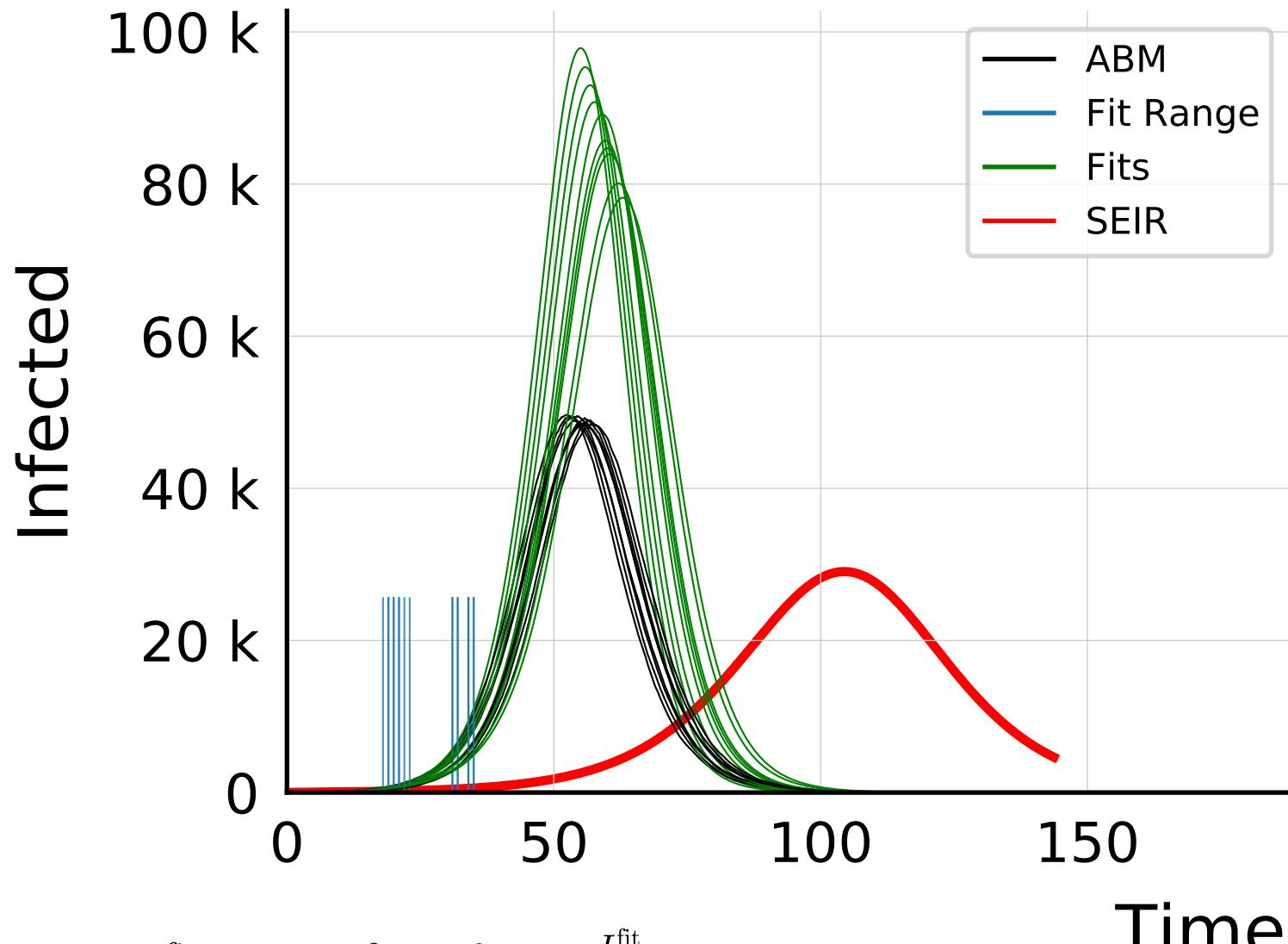
$$R_{\infty}^{\text{fit}} = 544_{-6}^{+5} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.025 \pm 0.0025$$

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

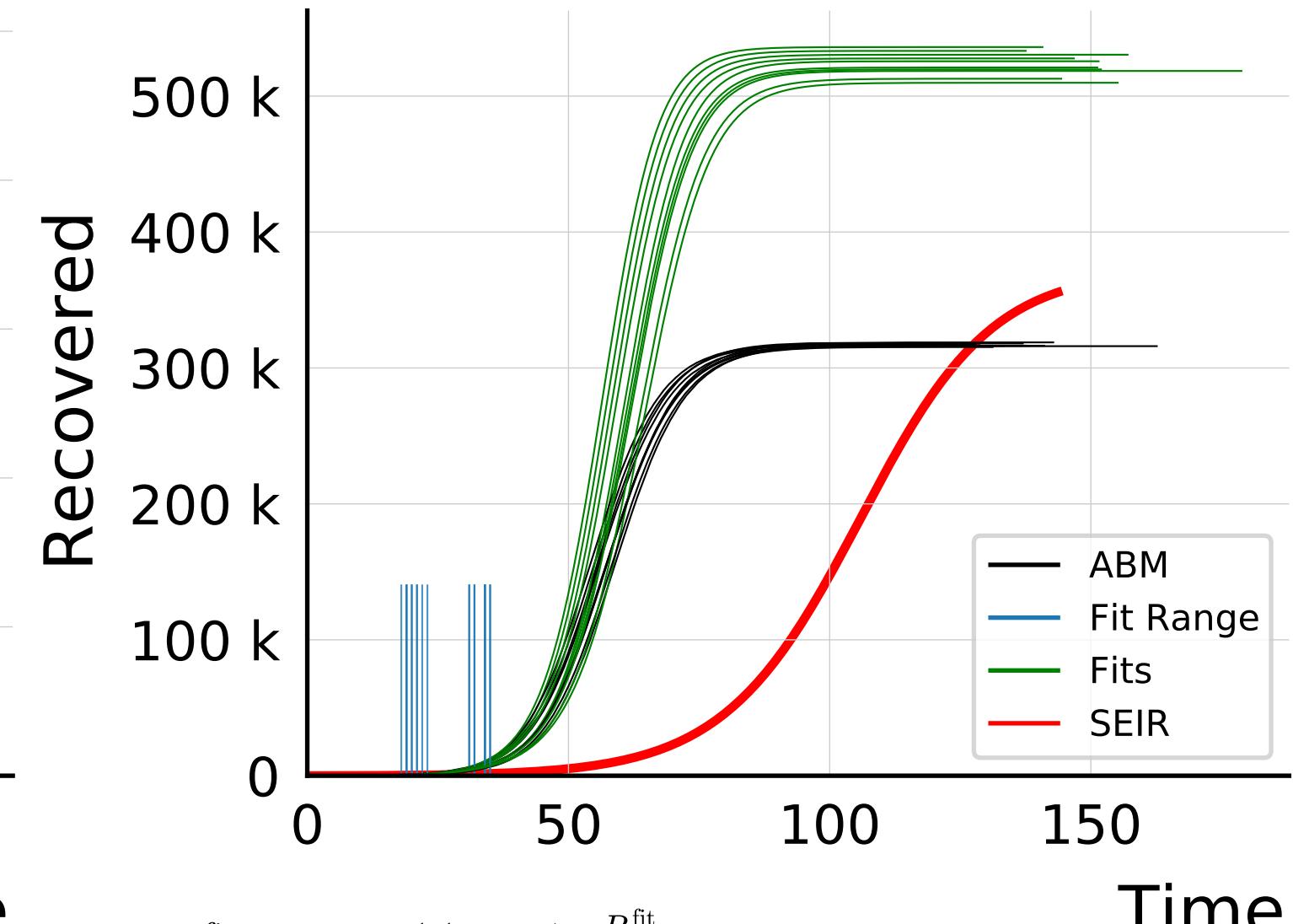


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



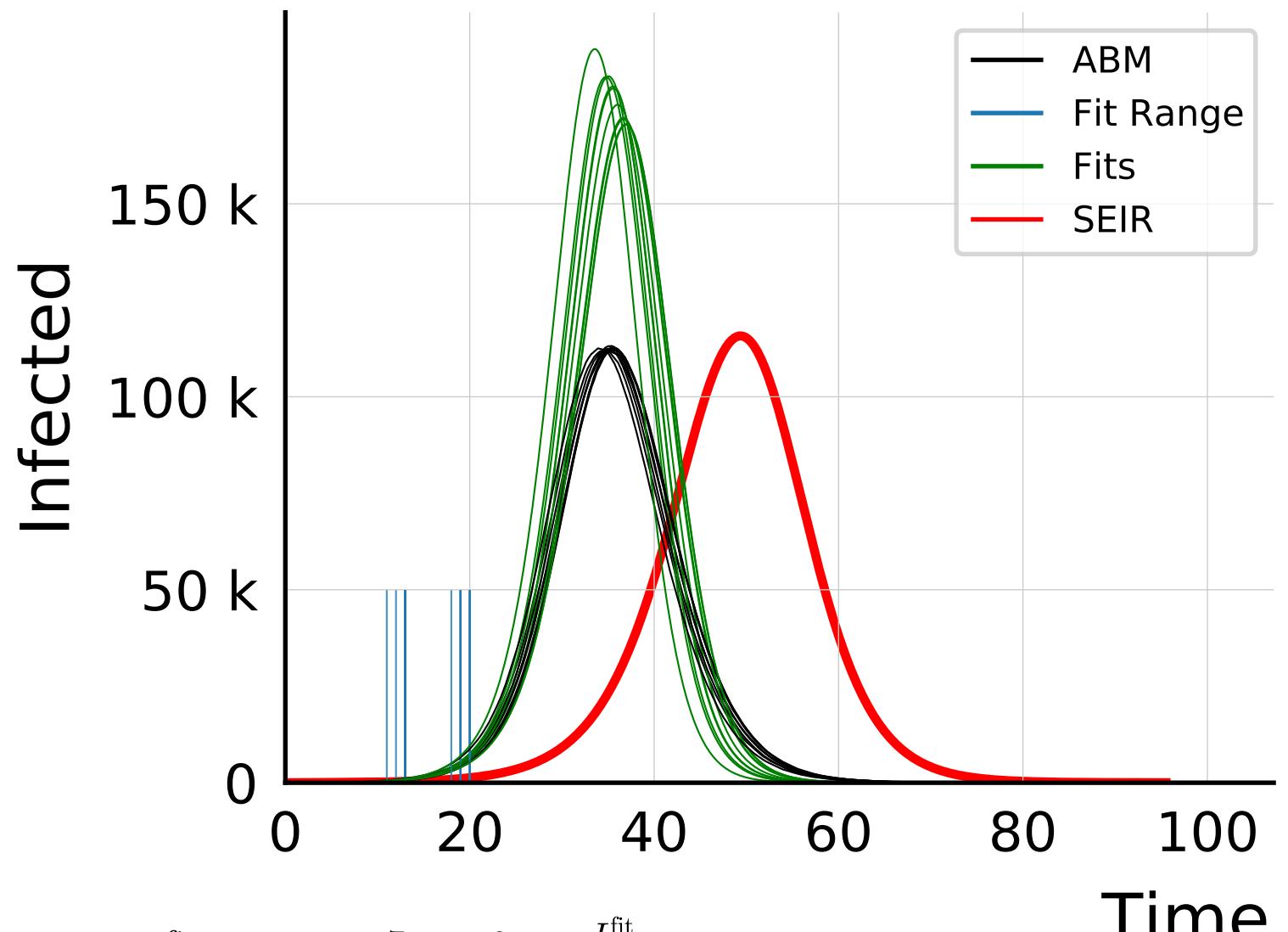
$$I_{\max}^{\text{fit}} = 86_{-6}^{+9} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.79 \pm 0.035$$

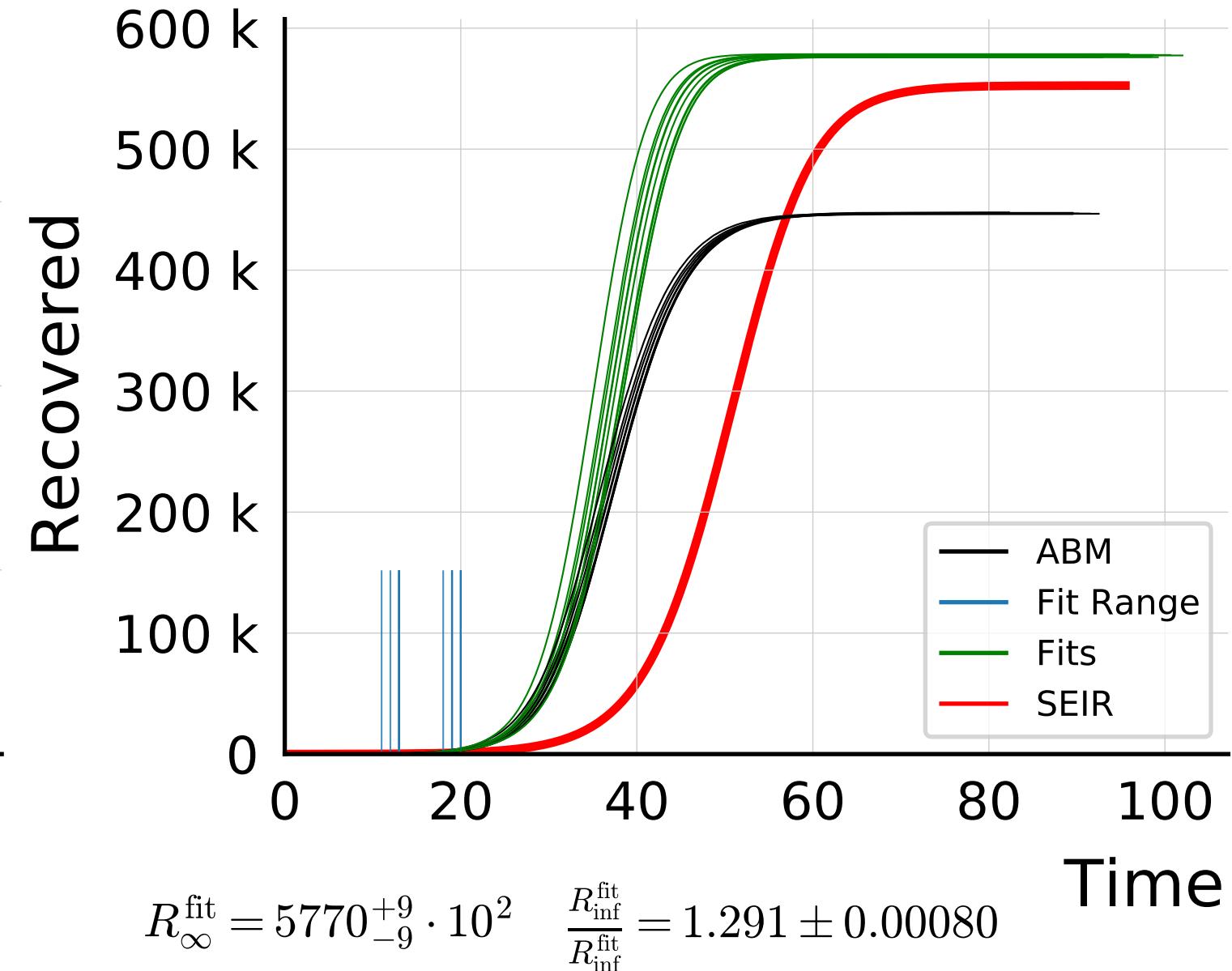


$$R_{\infty}^{\text{fit}} = 52.2_{-0.9}^{+1.1} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.652 \pm 0.0072$$

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

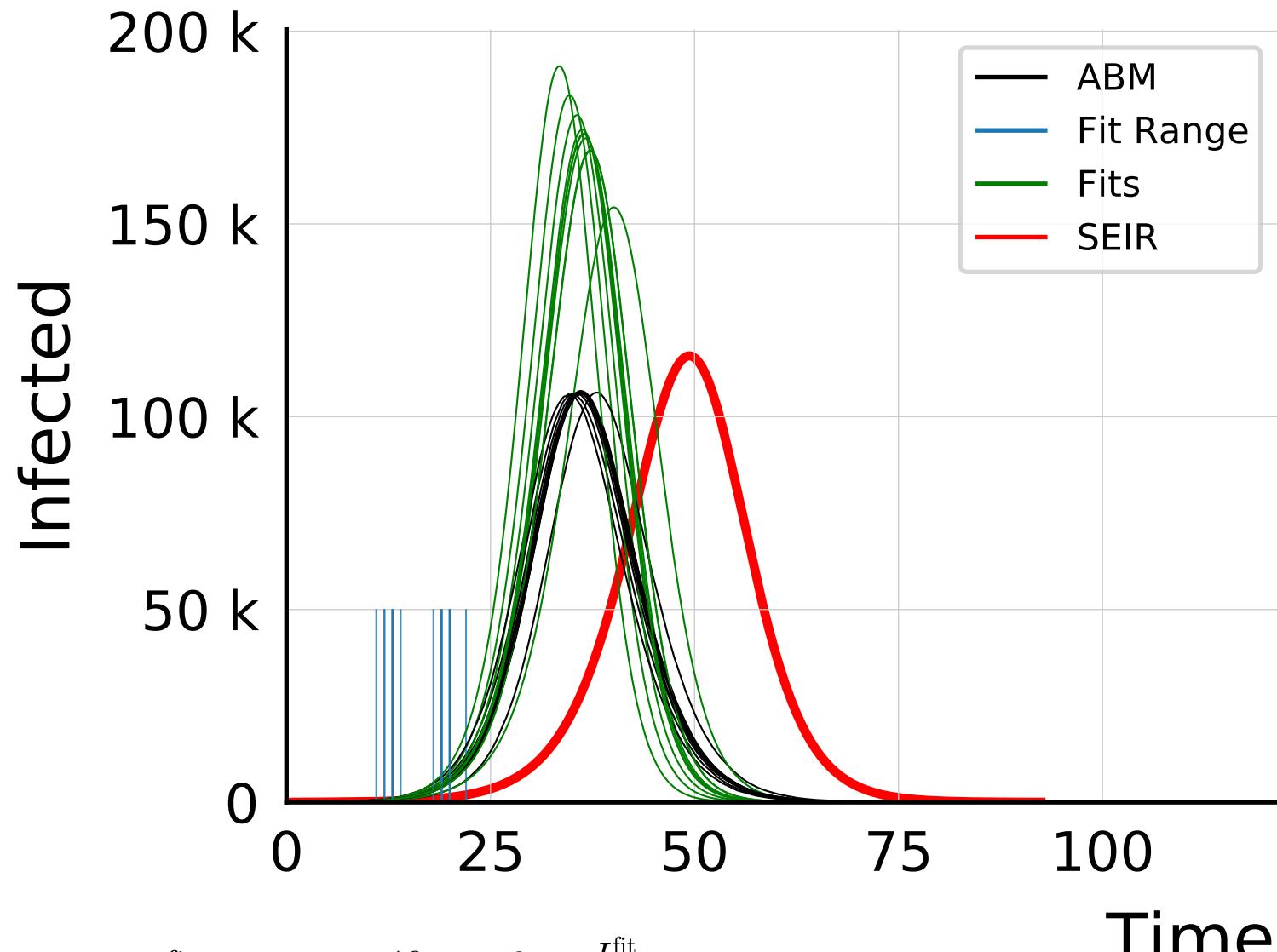


$$I_{\max}^{\text{fit}} = 177_{-6}^{+7} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.58 \pm 0.018$$

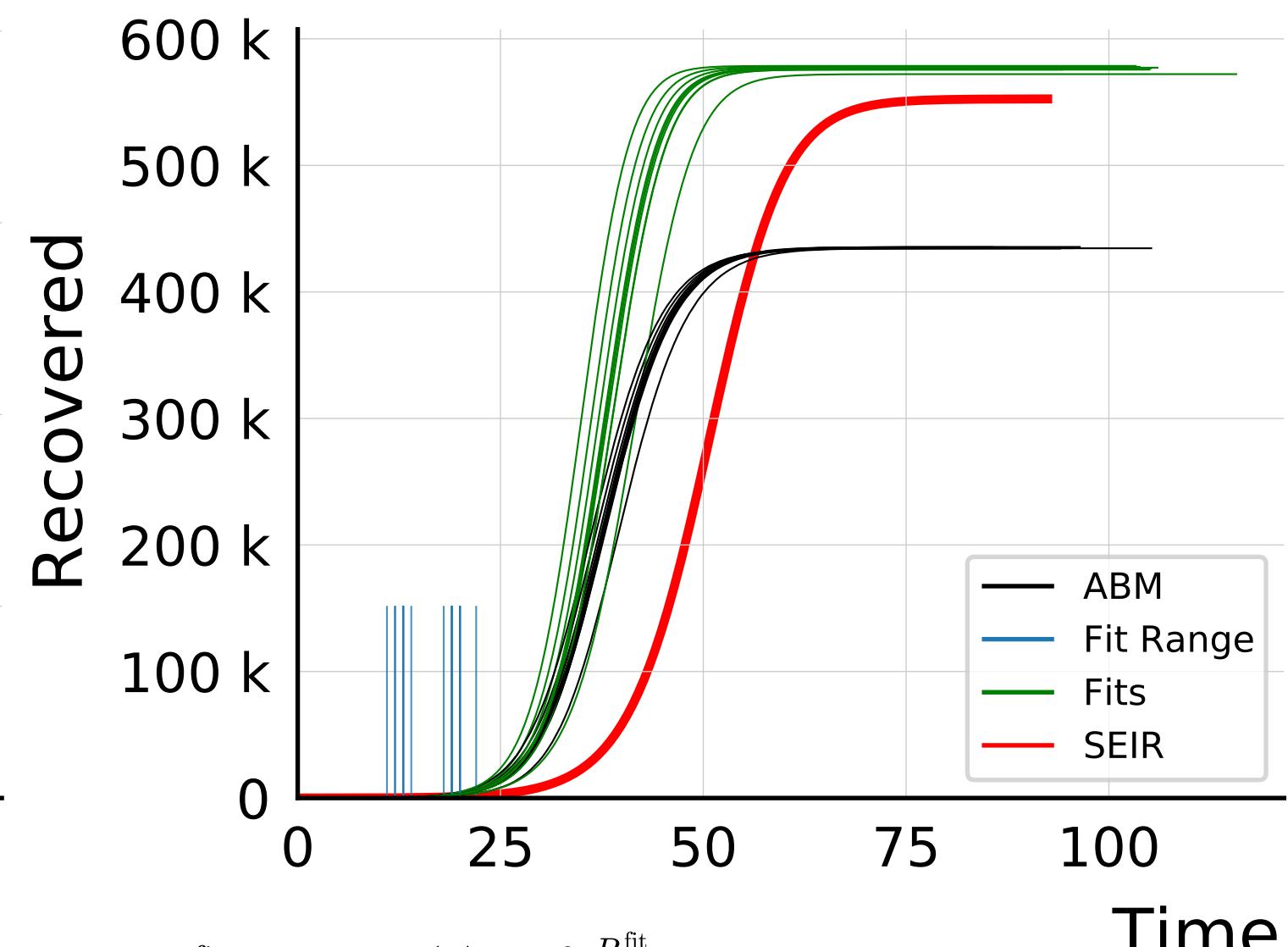


$$R_{\infty}^{\text{fit}} = 5770_{-9}^{+9} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.291 \pm 0.00080$$

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

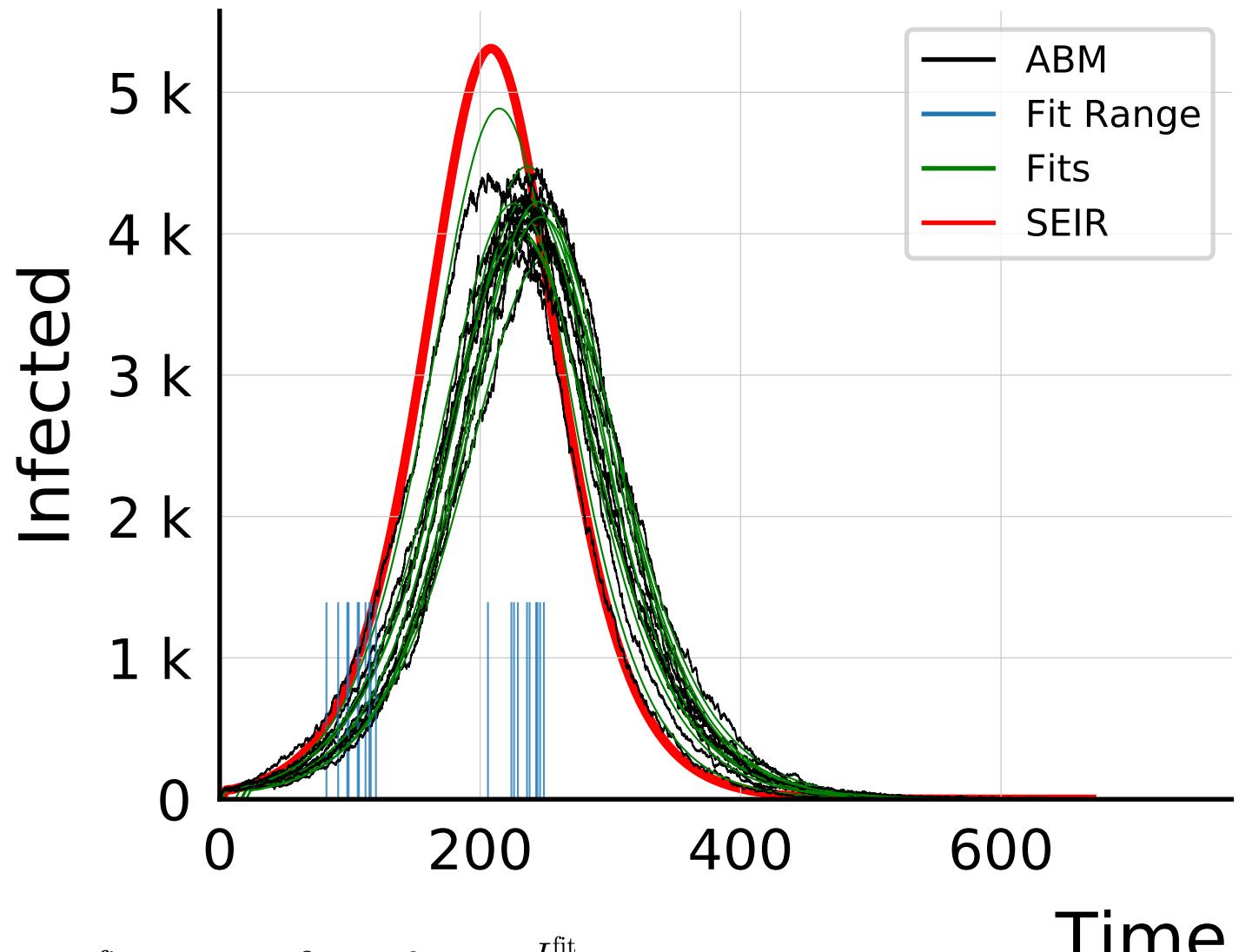


$$I_{\max}^{\text{fit}} = 173_{-5}^{+10} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.64 \pm 0.028$$



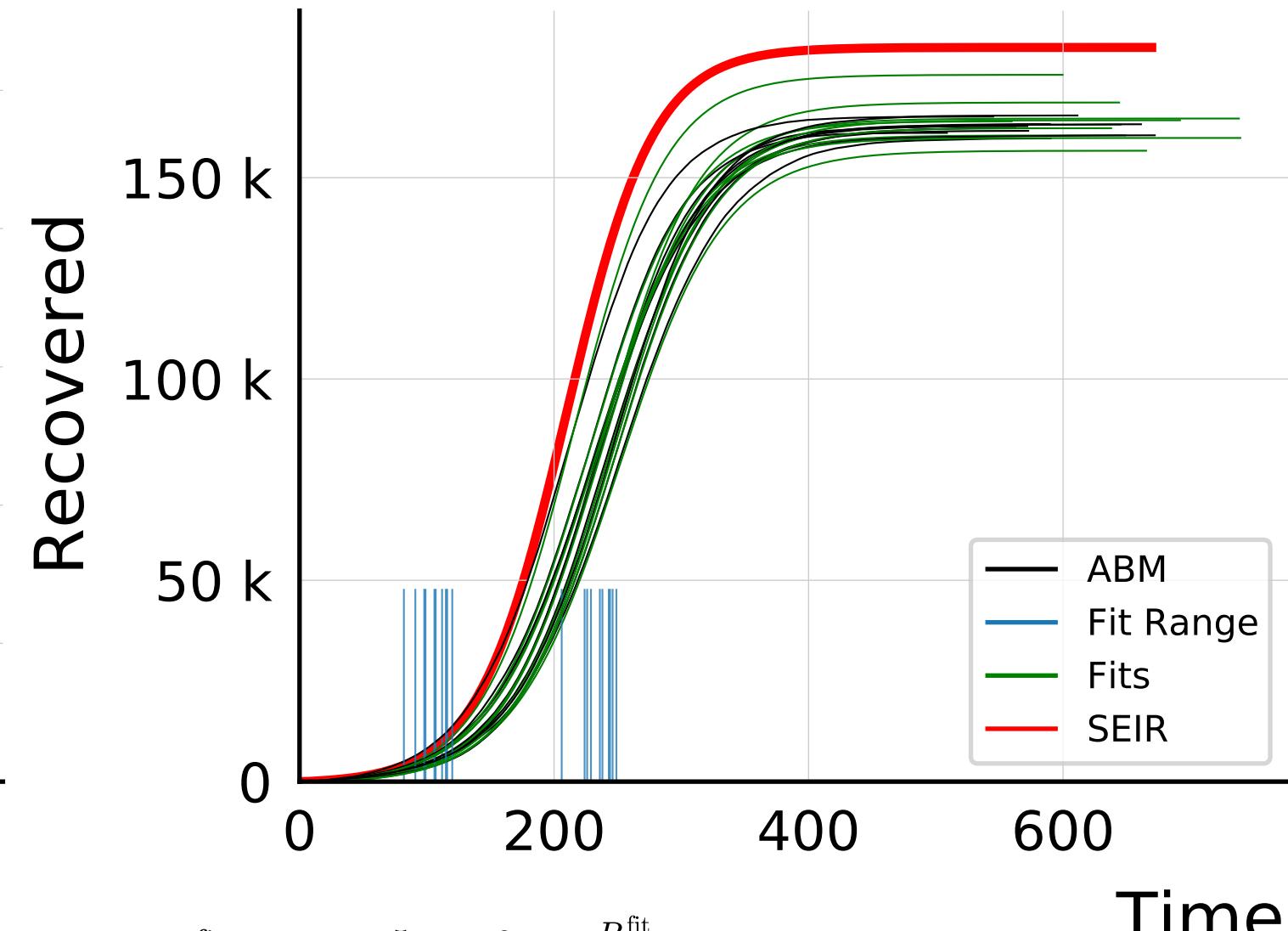
$$R_{\infty}^{\text{fit}} = 576.5_{-0.8}^{+1.4} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.325 \pm 0.0012$$

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



$$I_{\text{max}}^{\text{fit}} = 42_{-2}^{+3} \cdot 10^2$$

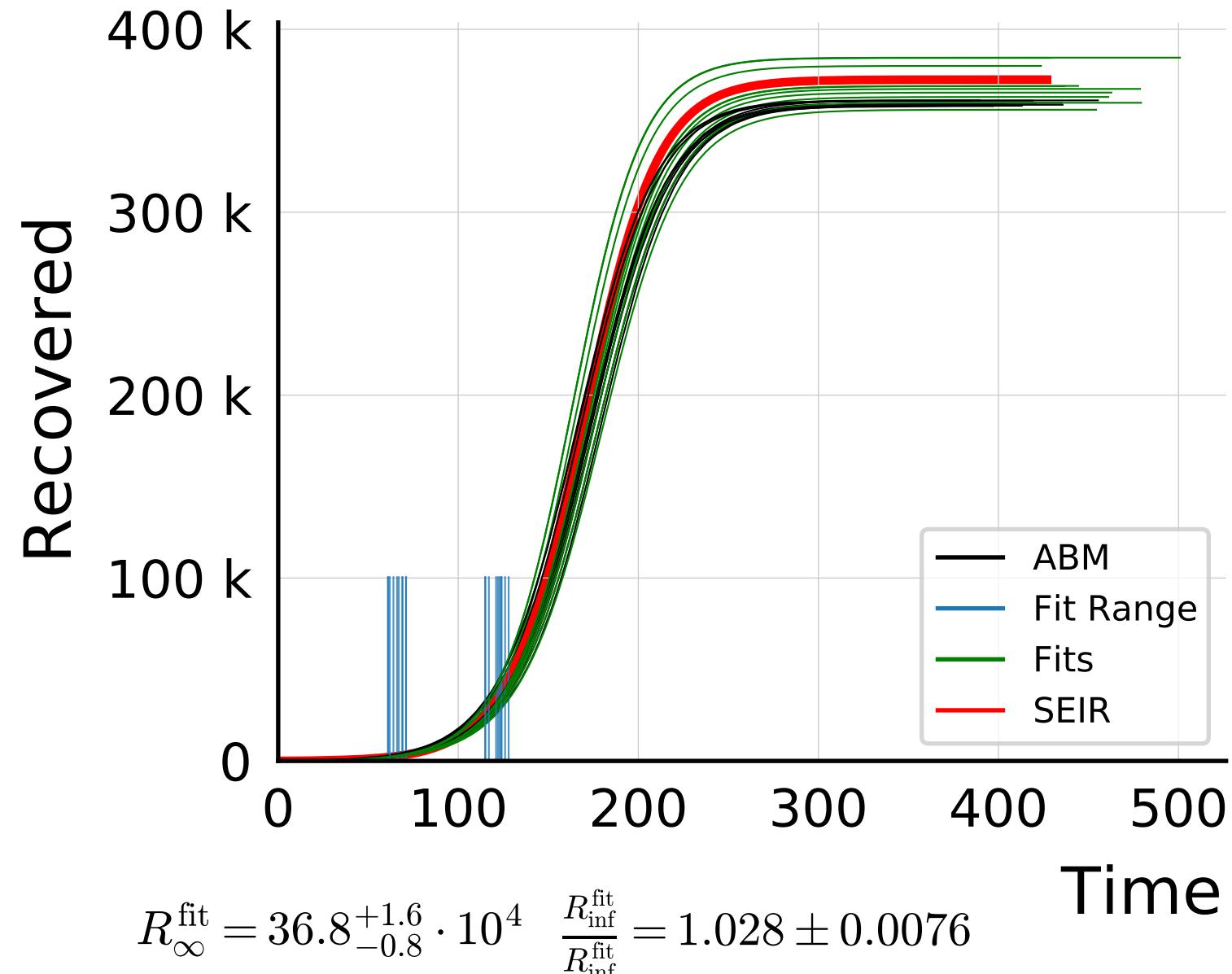
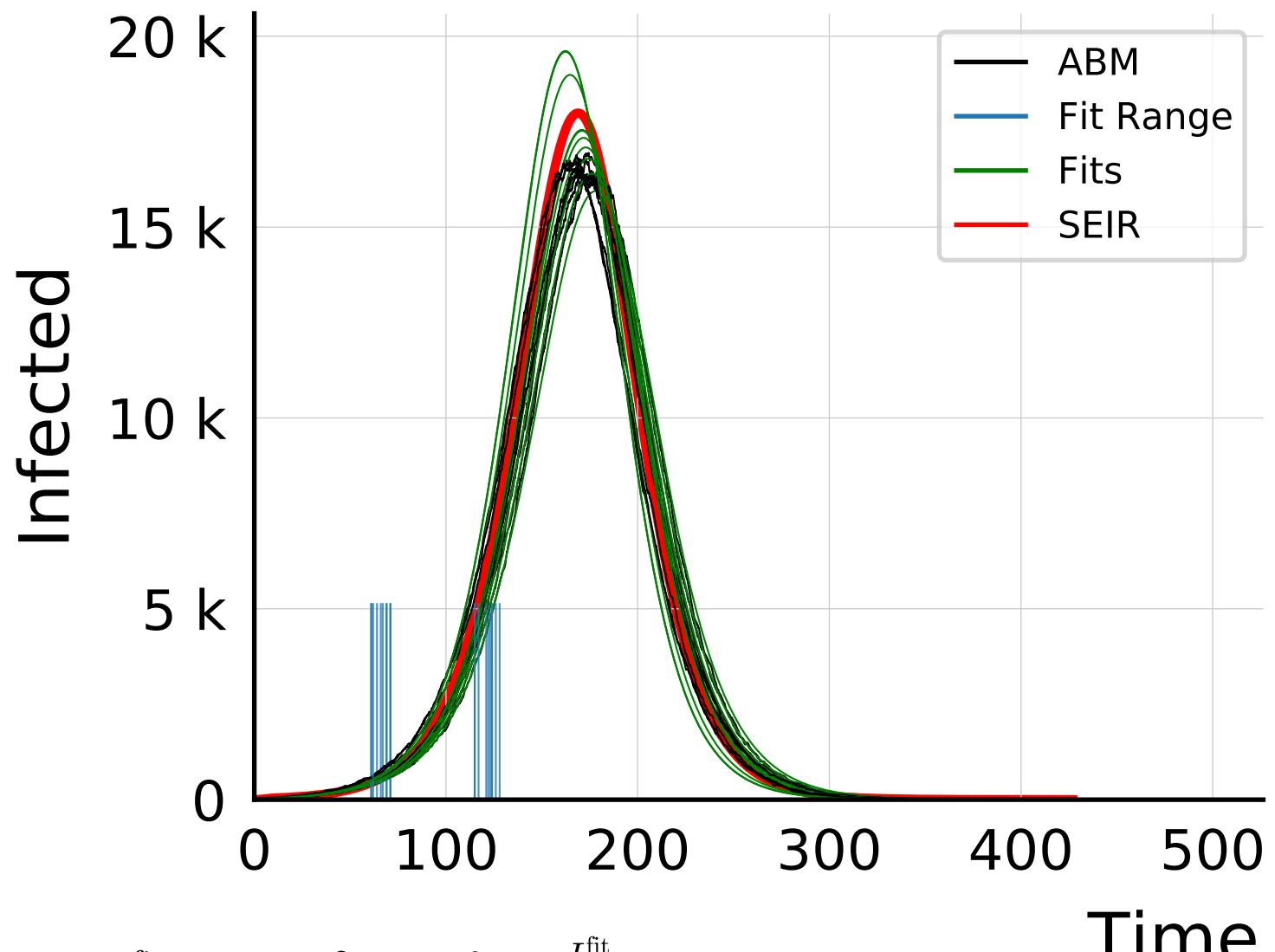
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 0.997 \pm 0.014$$



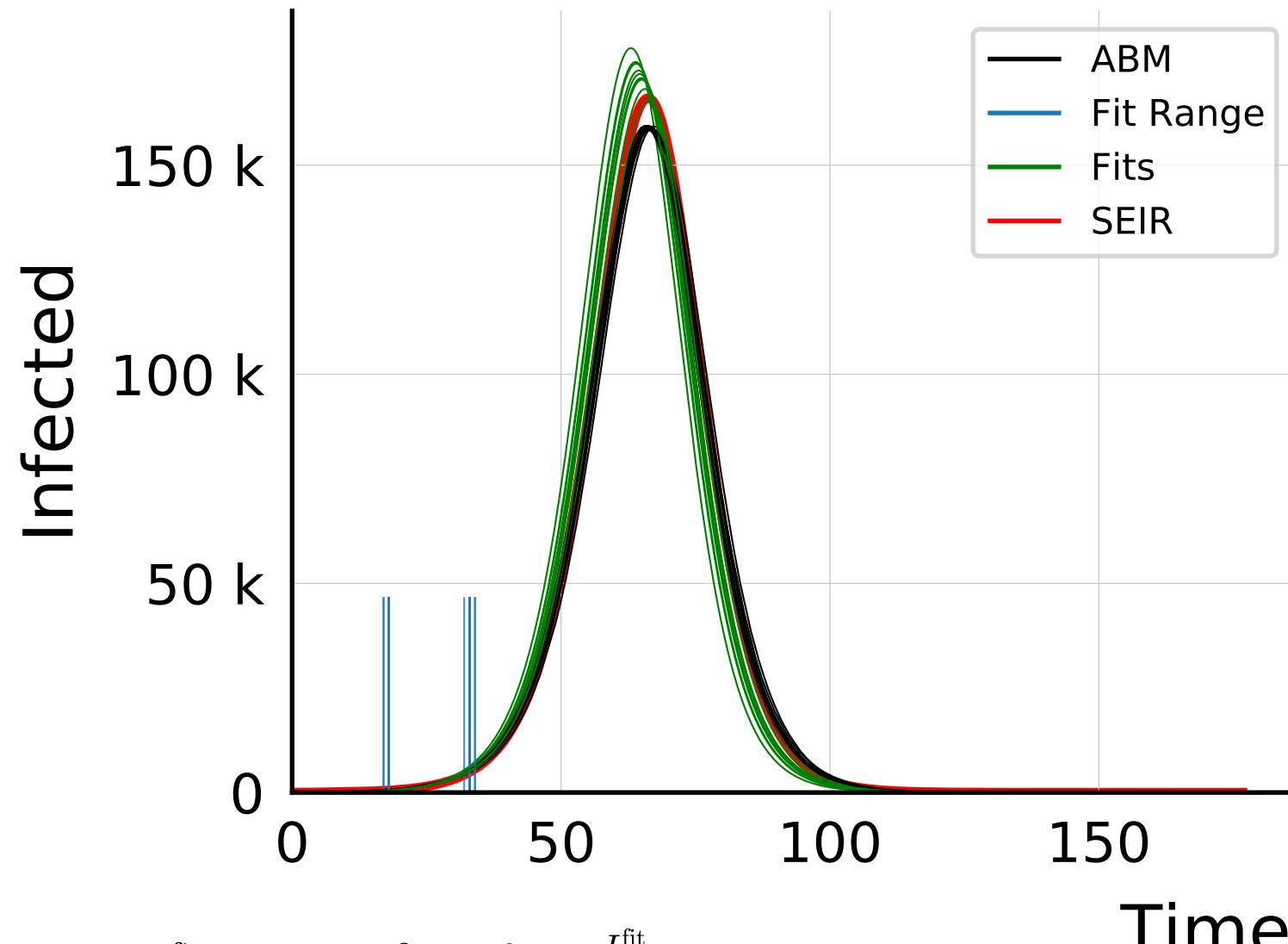
$$R_{\infty}^{\text{fit}} = 164_{-4}^{+5} \cdot 10^3$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.009 \pm 0.0076$$

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

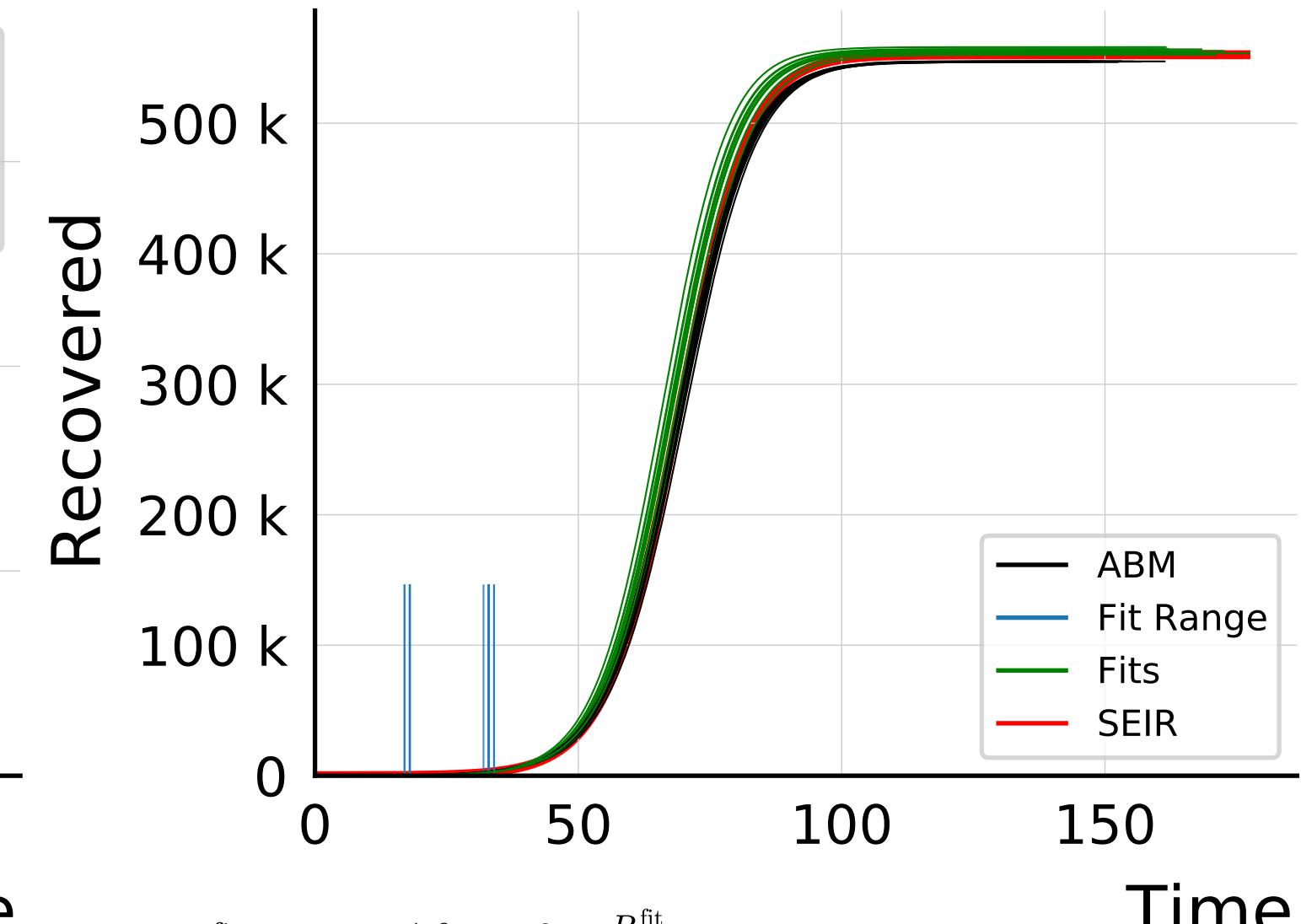


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 0.5$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 171^{+3}_{-3} \cdot 10^3$$

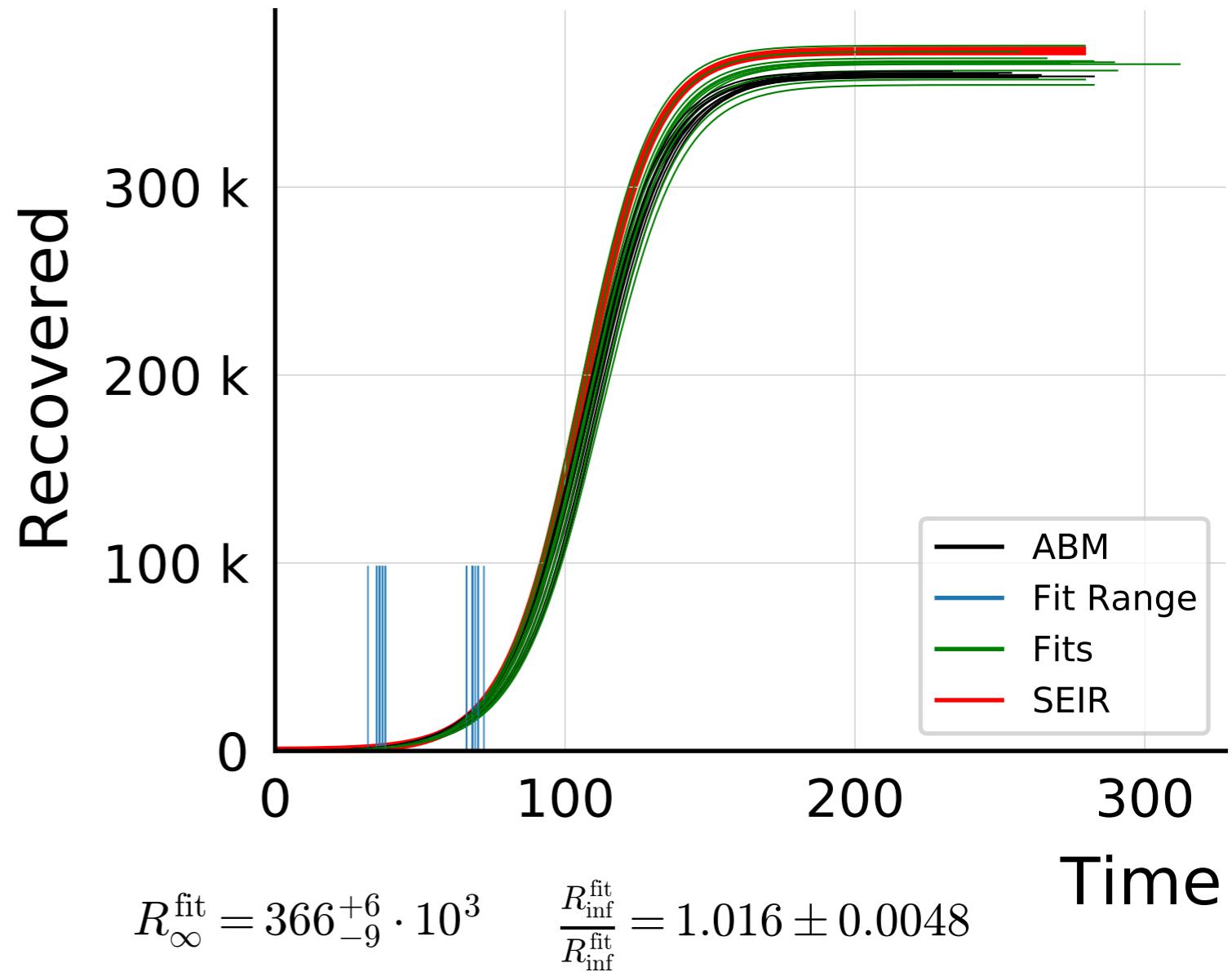
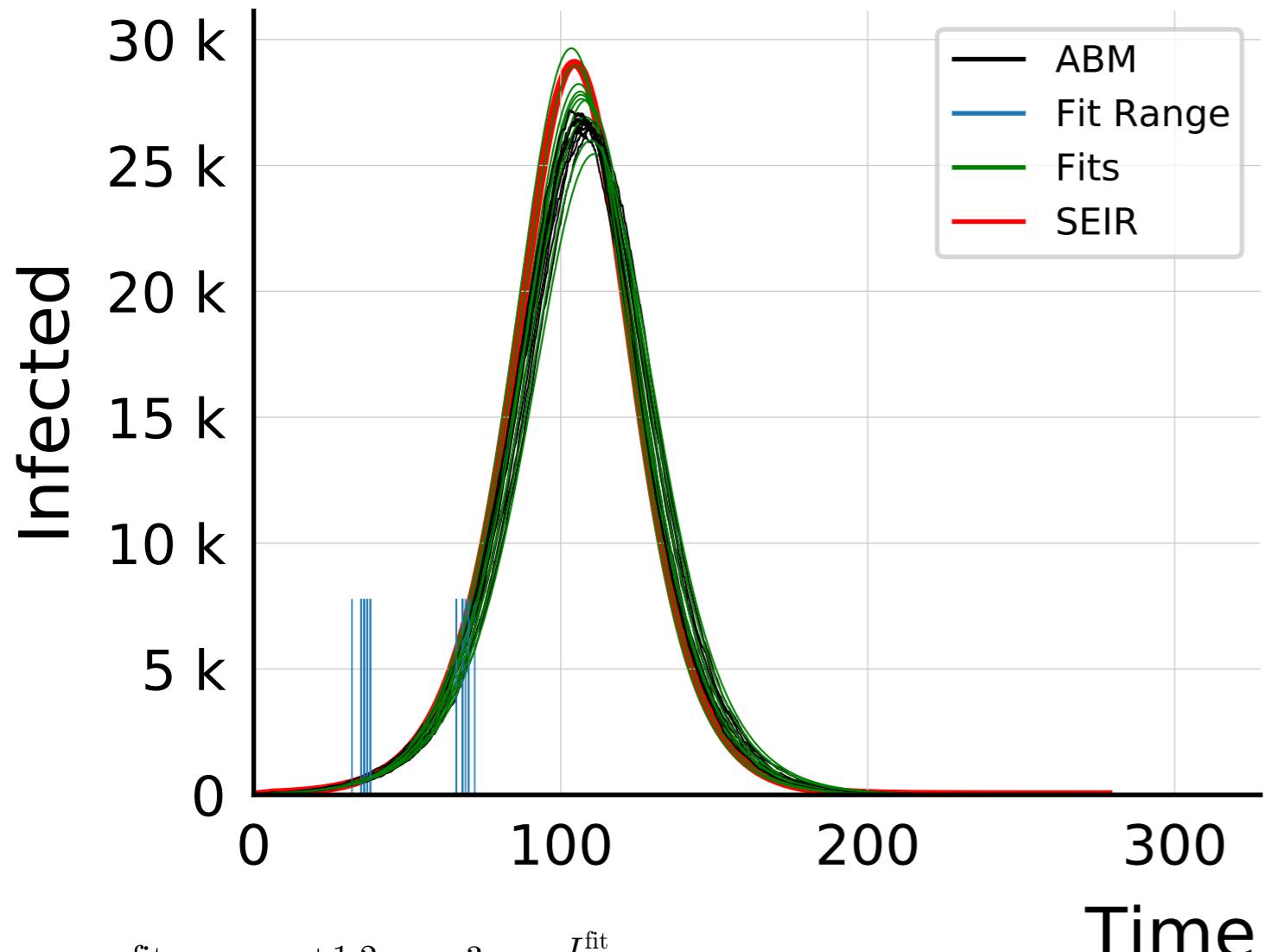
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.079 \pm 0.0066$$



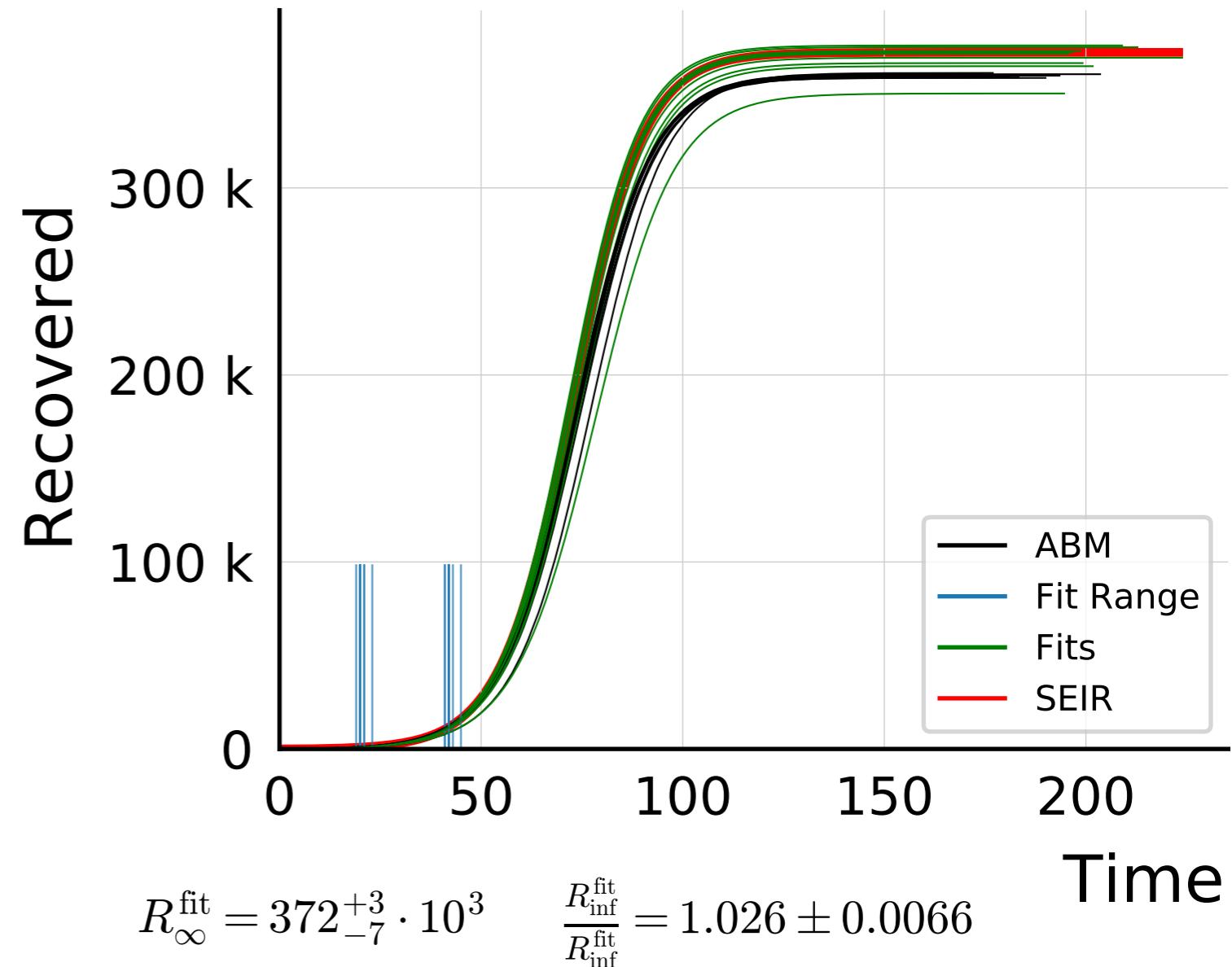
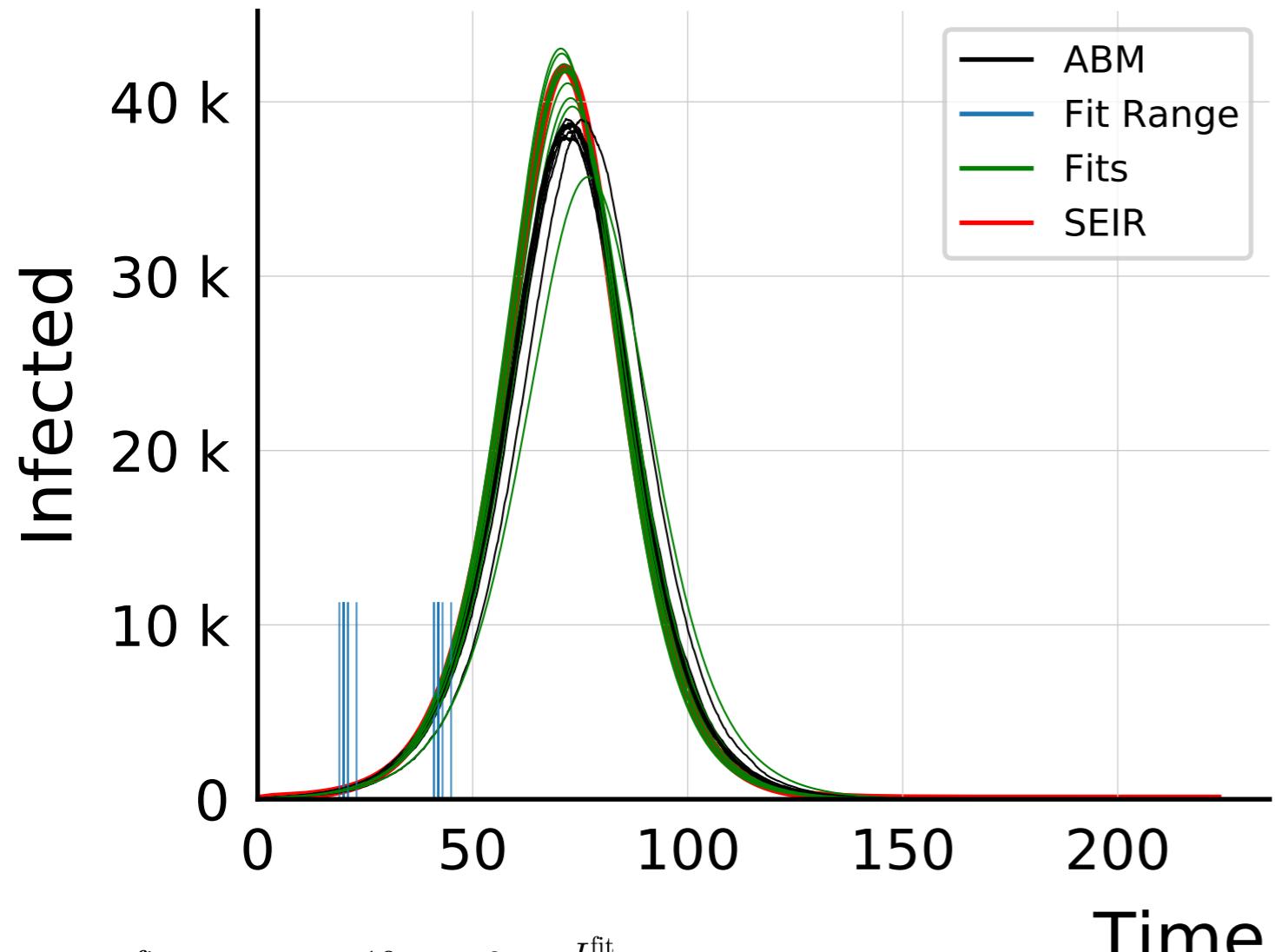
$$R_{\infty}^{\text{fit}} = 555^{+1.6}_{-1.6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.0148 \pm 0.00093$$

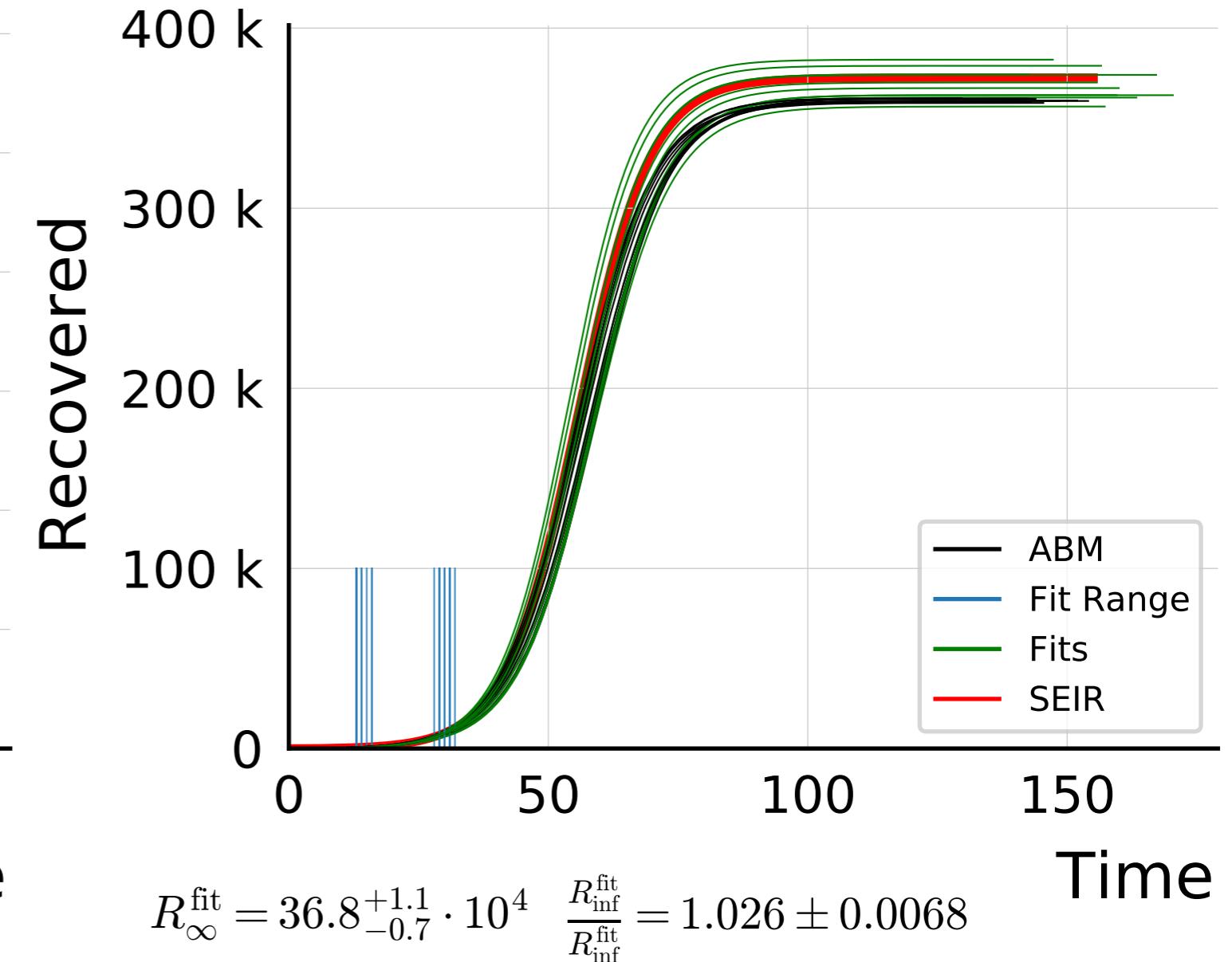
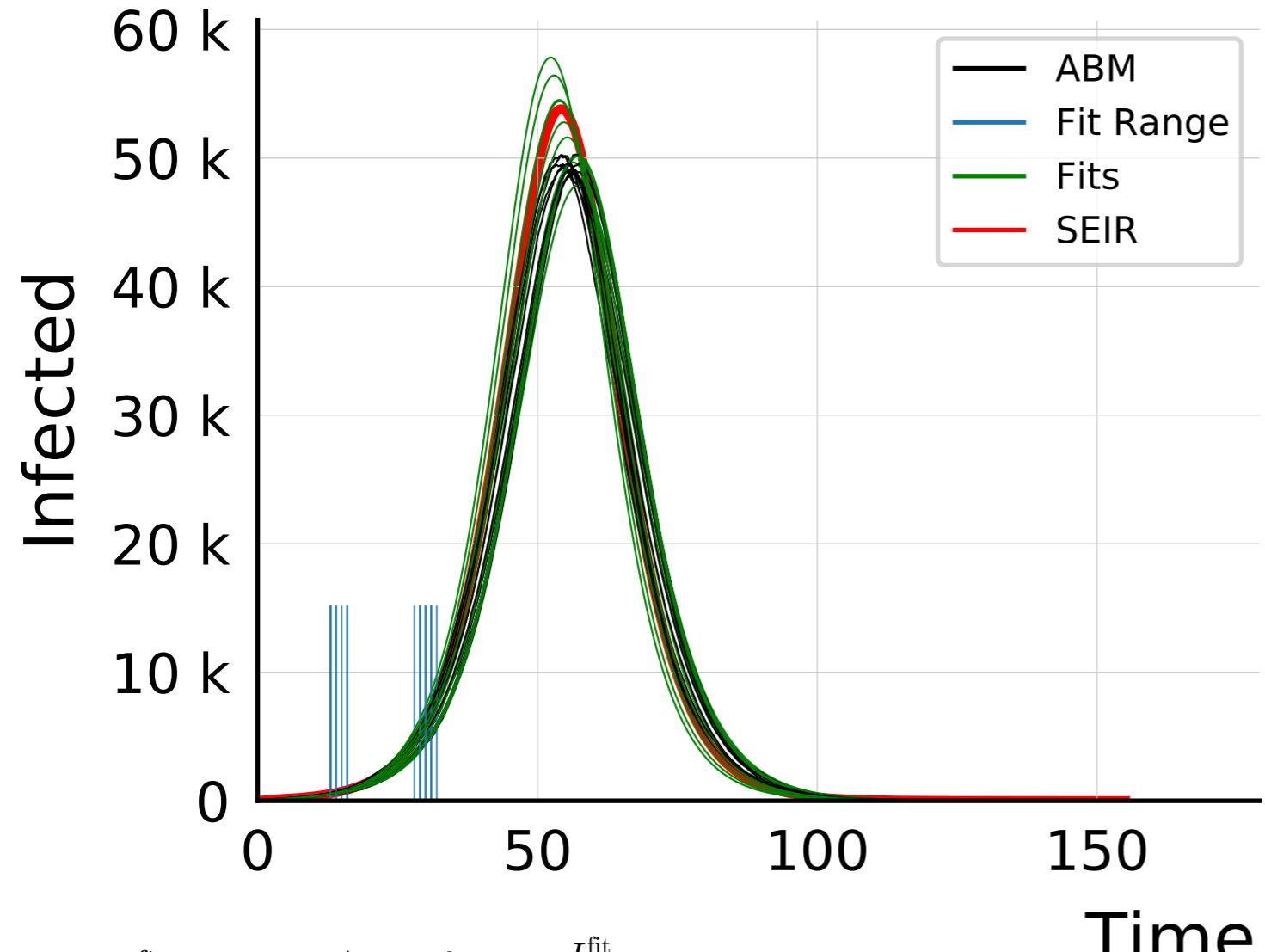
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



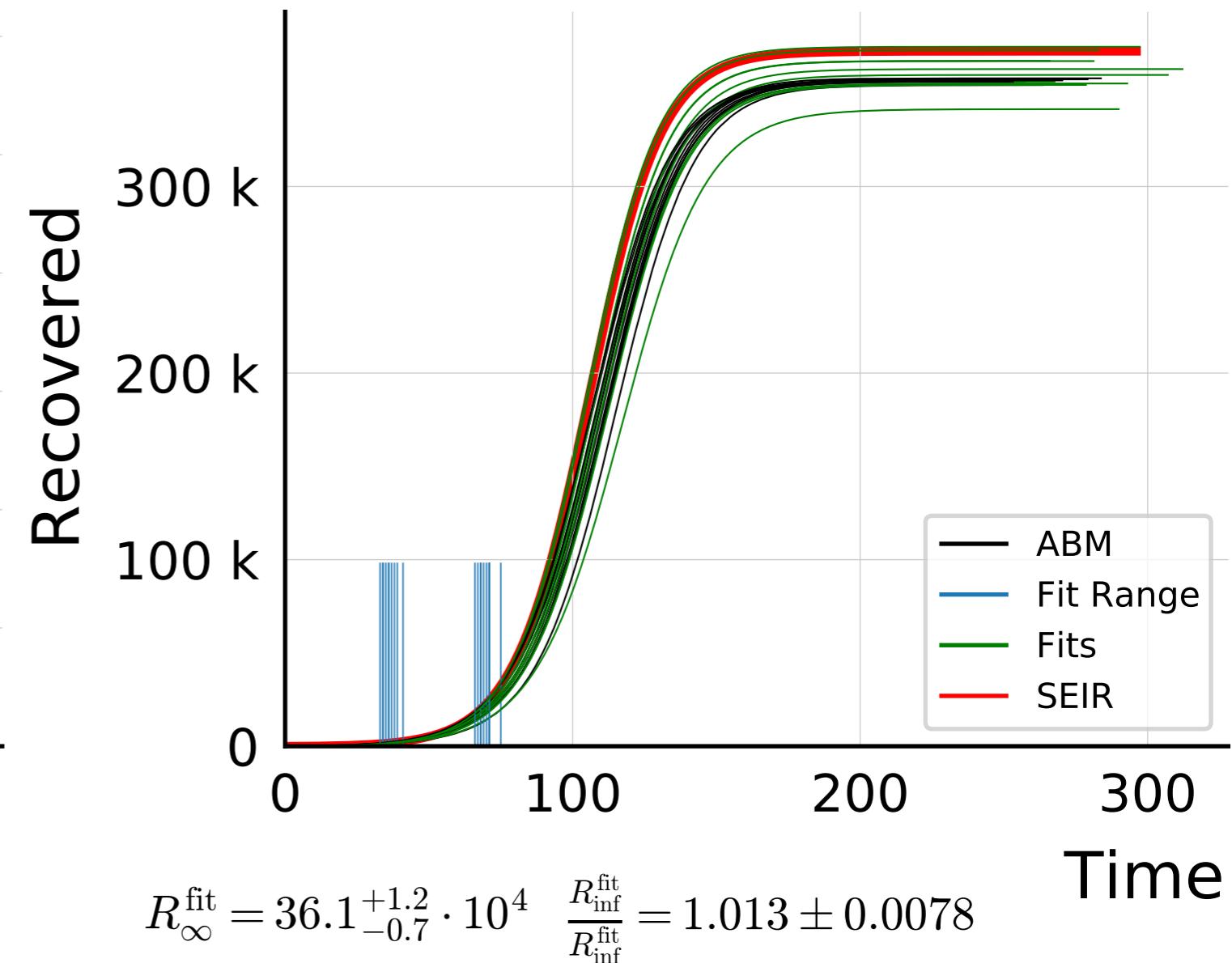
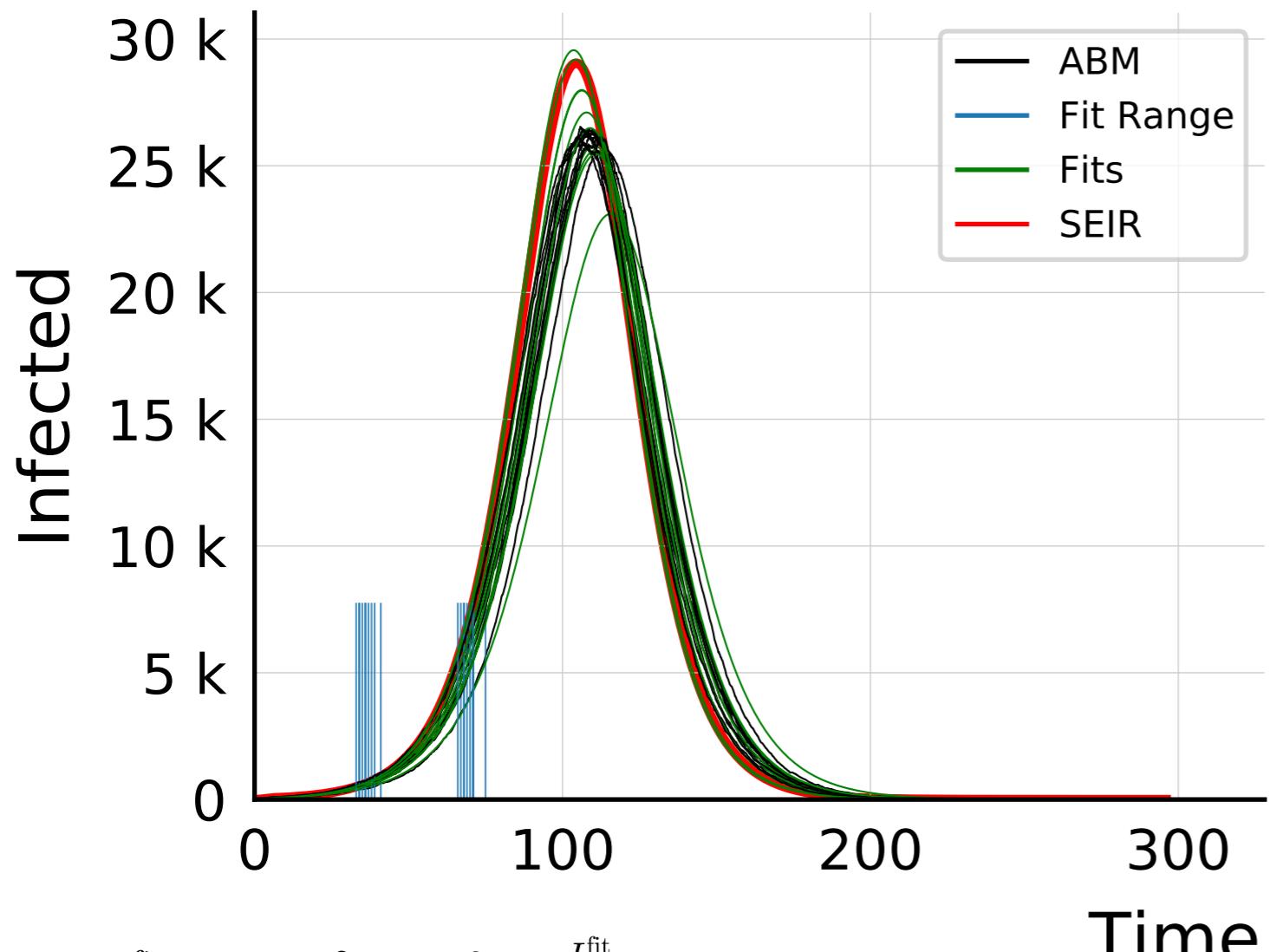
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 2.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



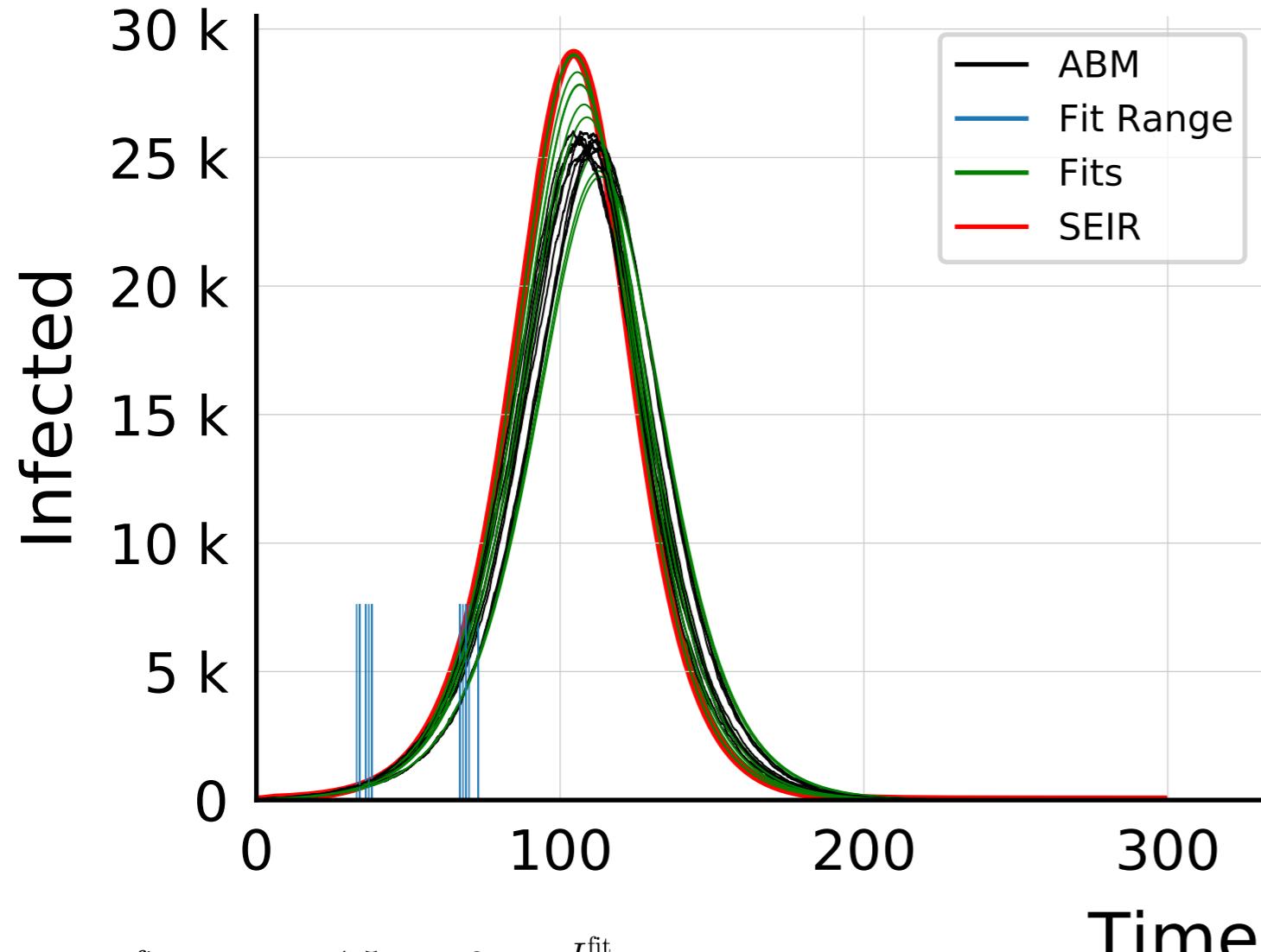
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 4.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



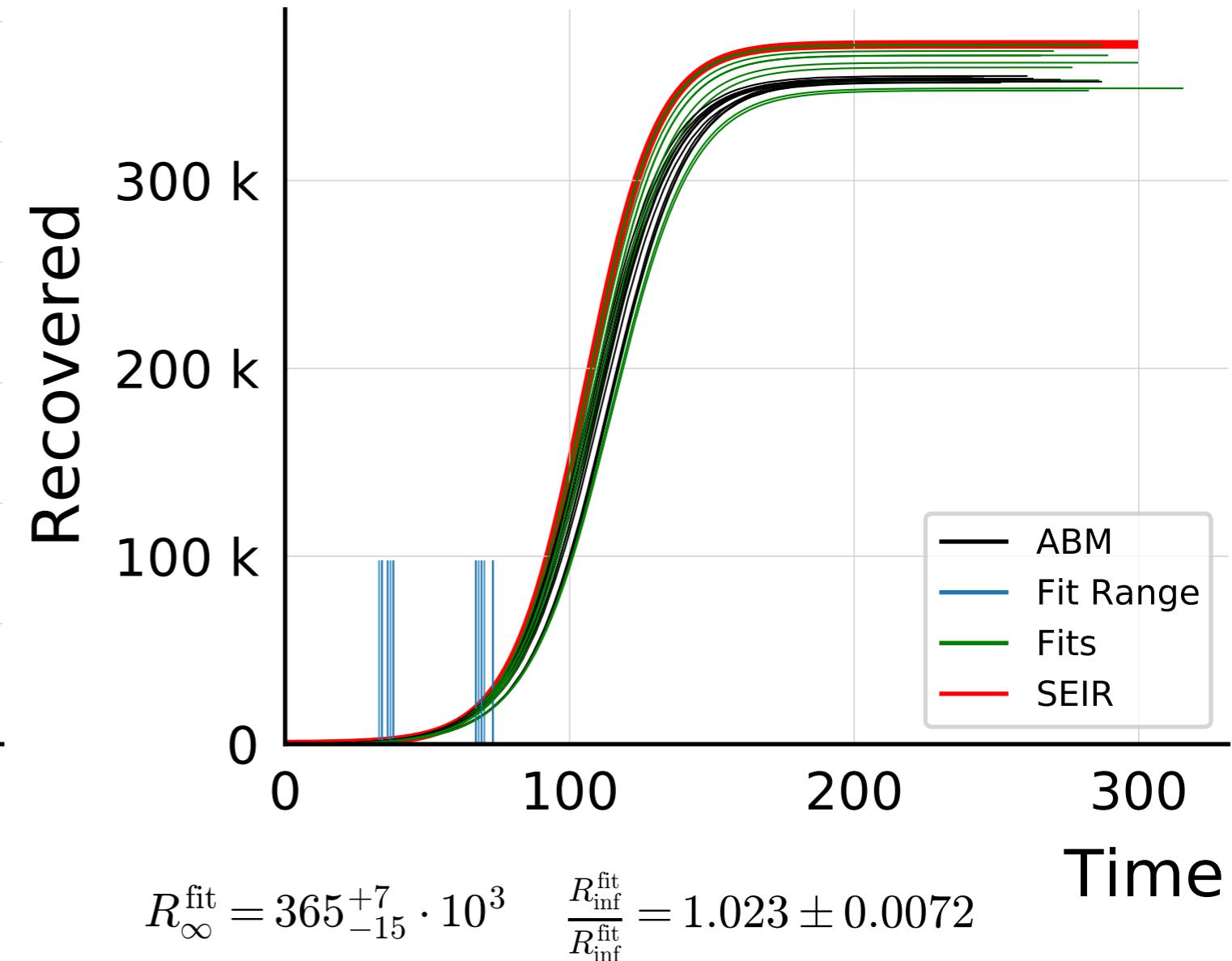
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

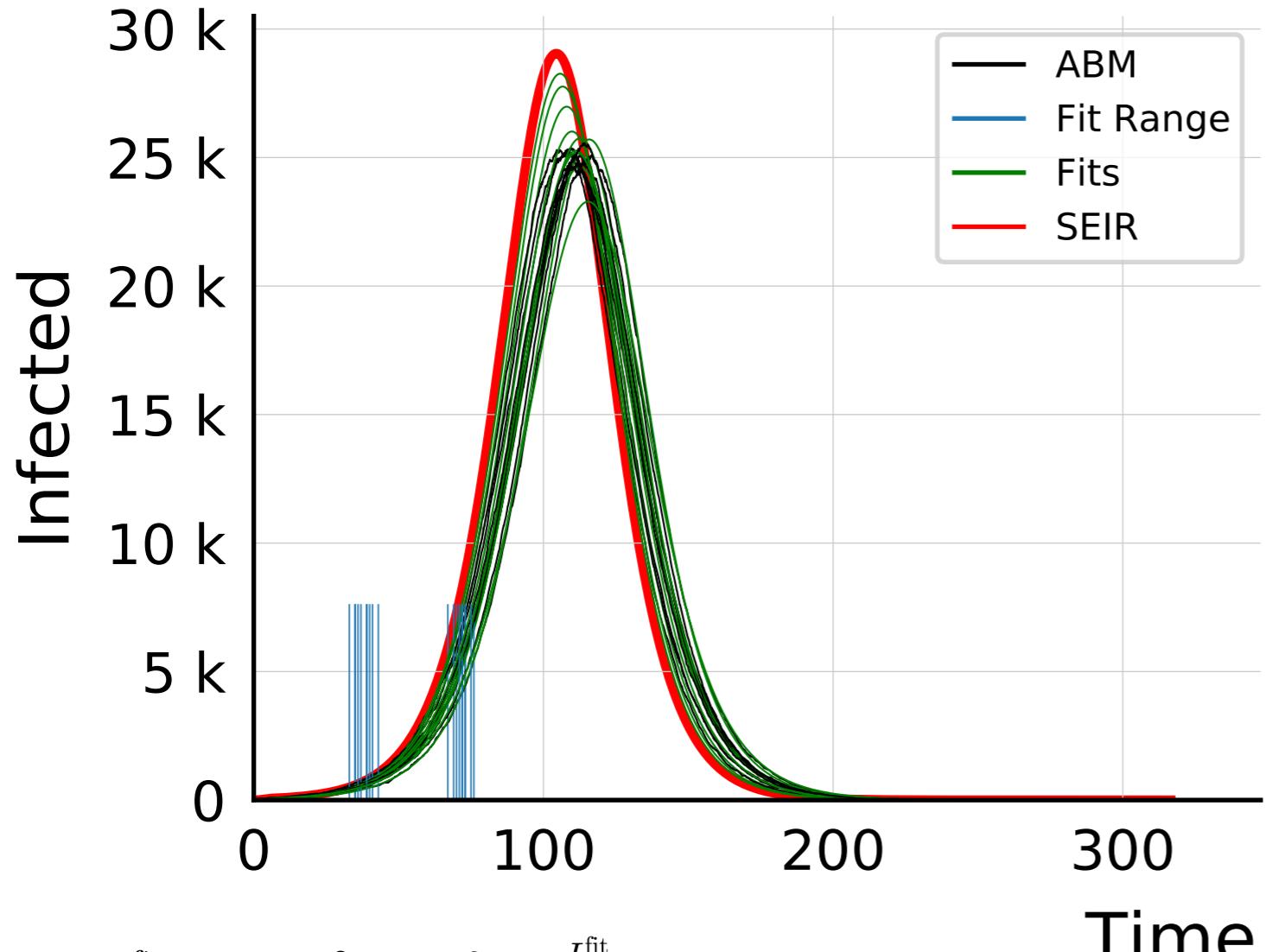


$$I_{\max}^{\text{fit}} = 27_{-3}^{+1.5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.05 \pm 0.020$$

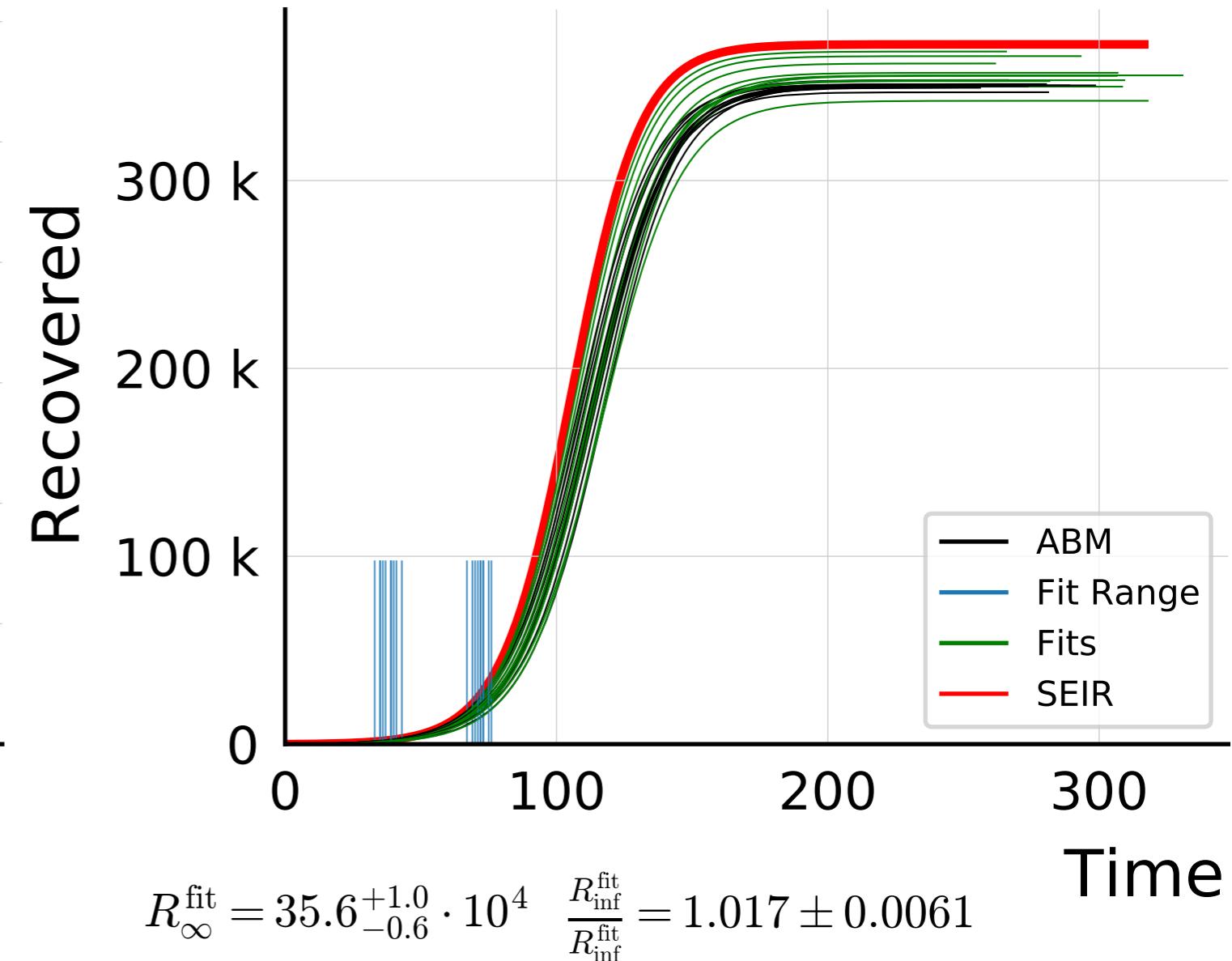


$$R_{\infty}^{\text{fit}} = 365_{-15}^{+7} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.023 \pm 0.0072$$

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

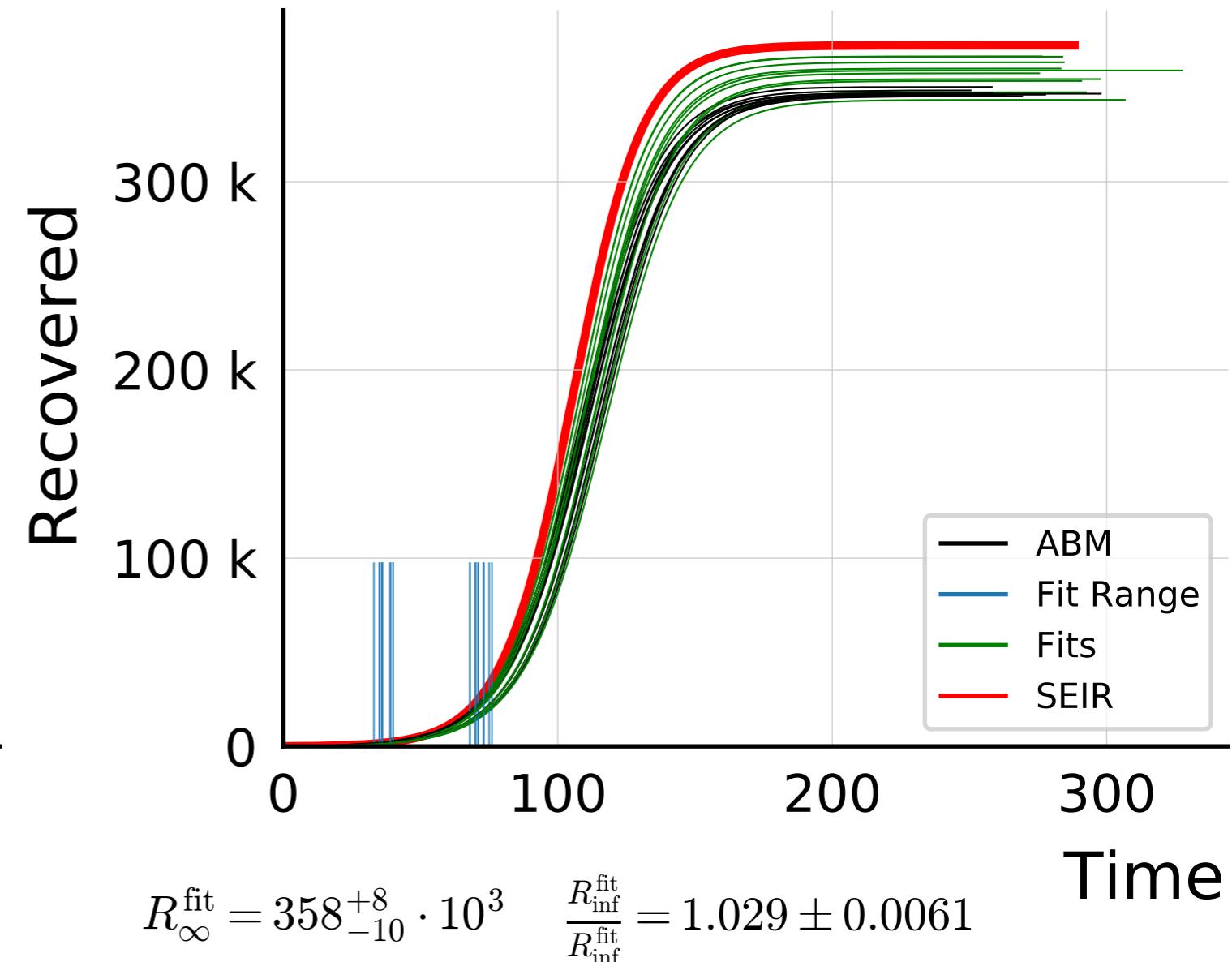
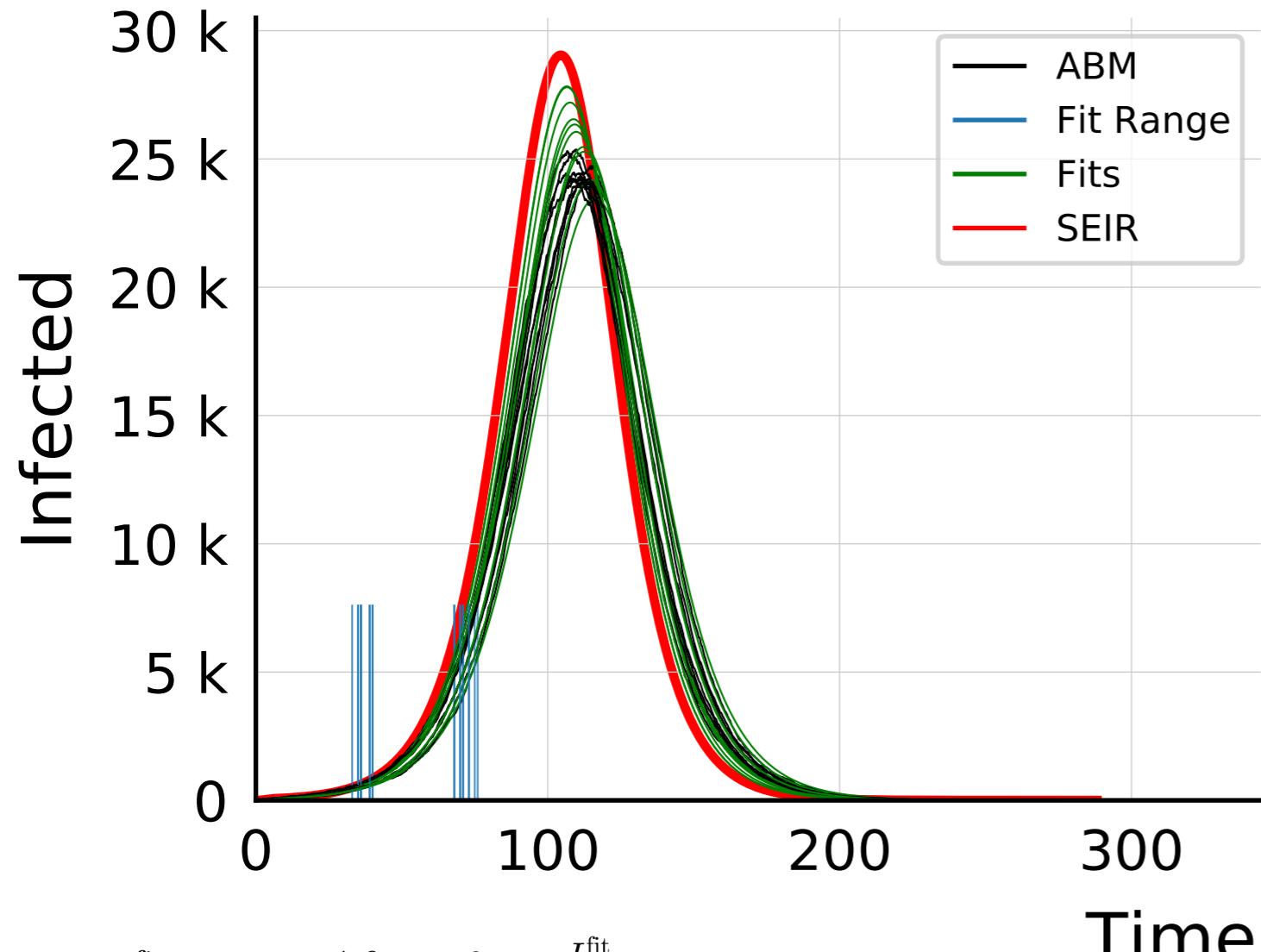


$$I_{\max}^{\text{fit}} = 26_{-1.1}^{+2} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.03 \pm 0.017$$

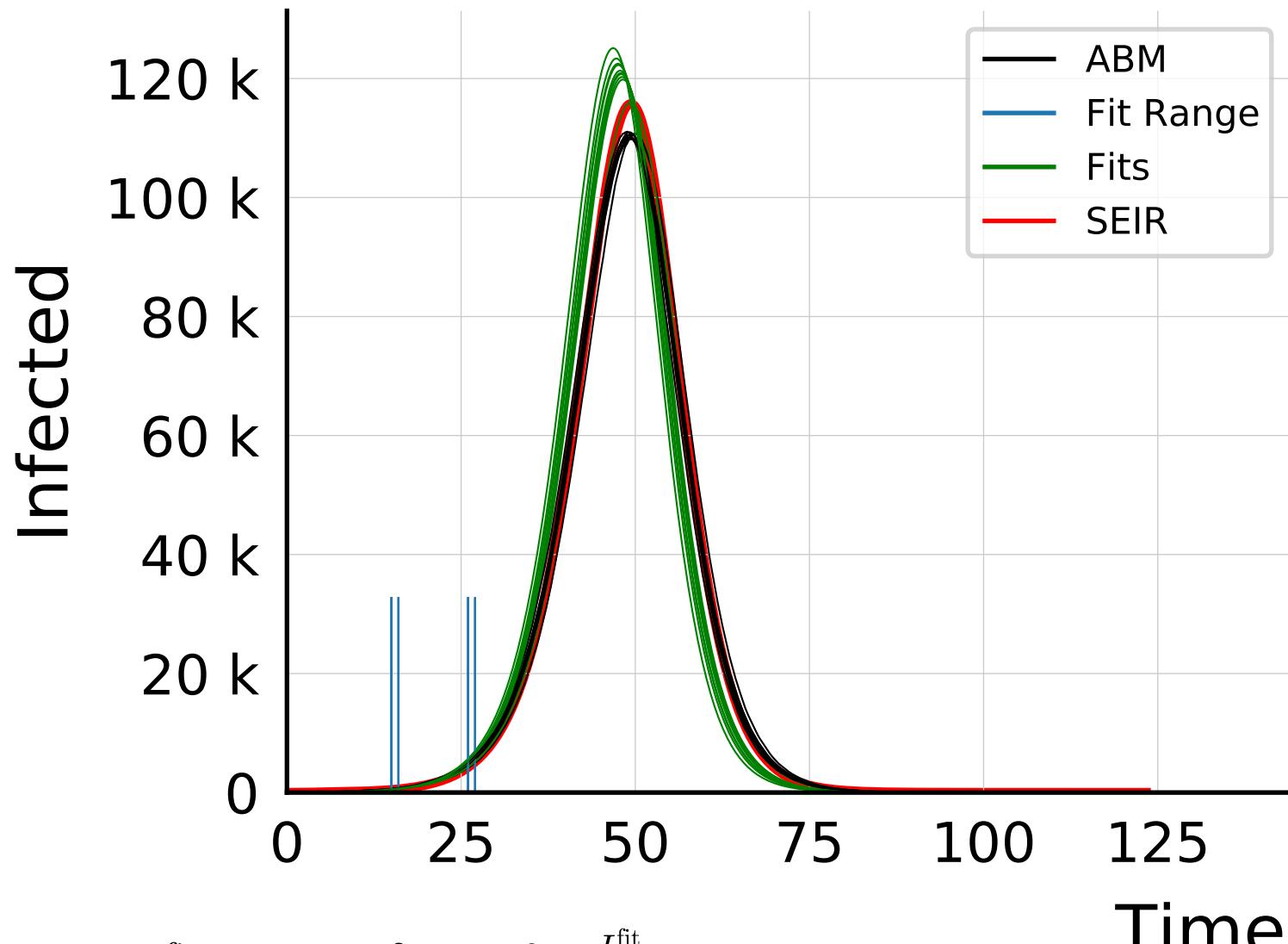


$$R_{\infty}^{\text{fit}} = 35.6_{-0.6}^{+1.0} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.017 \pm 0.0061$$

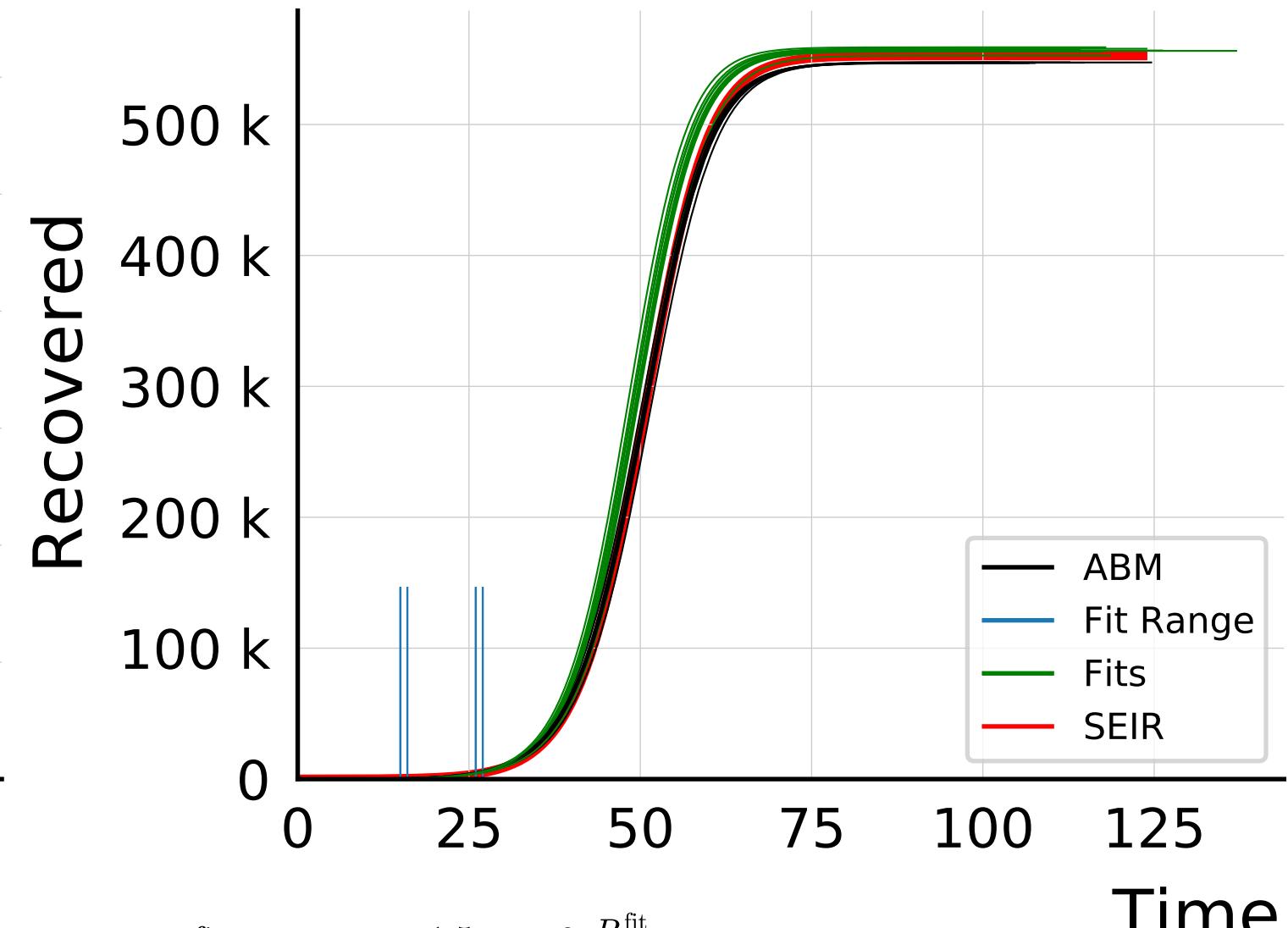
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

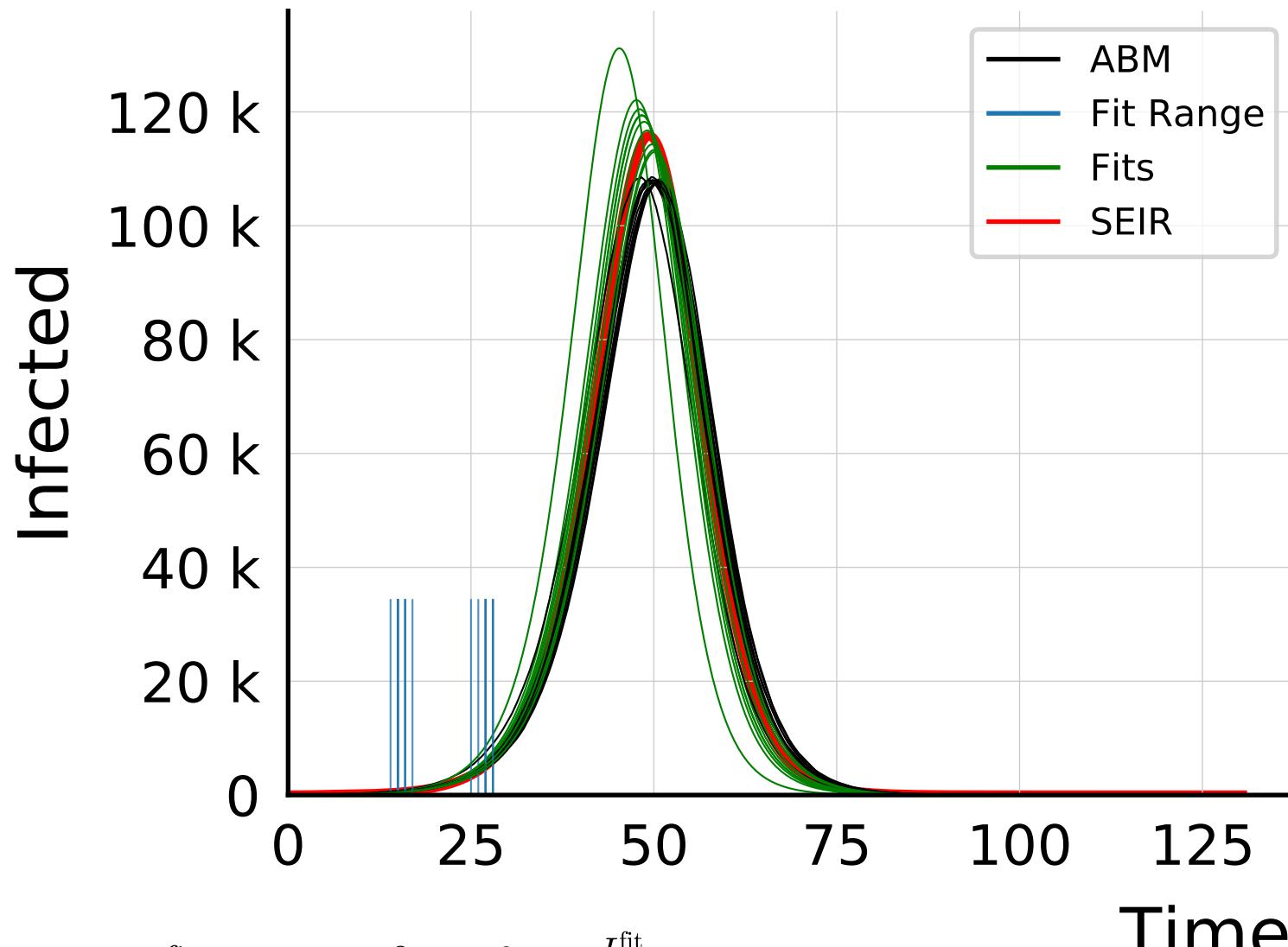


$$I_{\max}^{\text{fit}} = 121^{+2}_{-1.3} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.097 \pm 0.0065$$



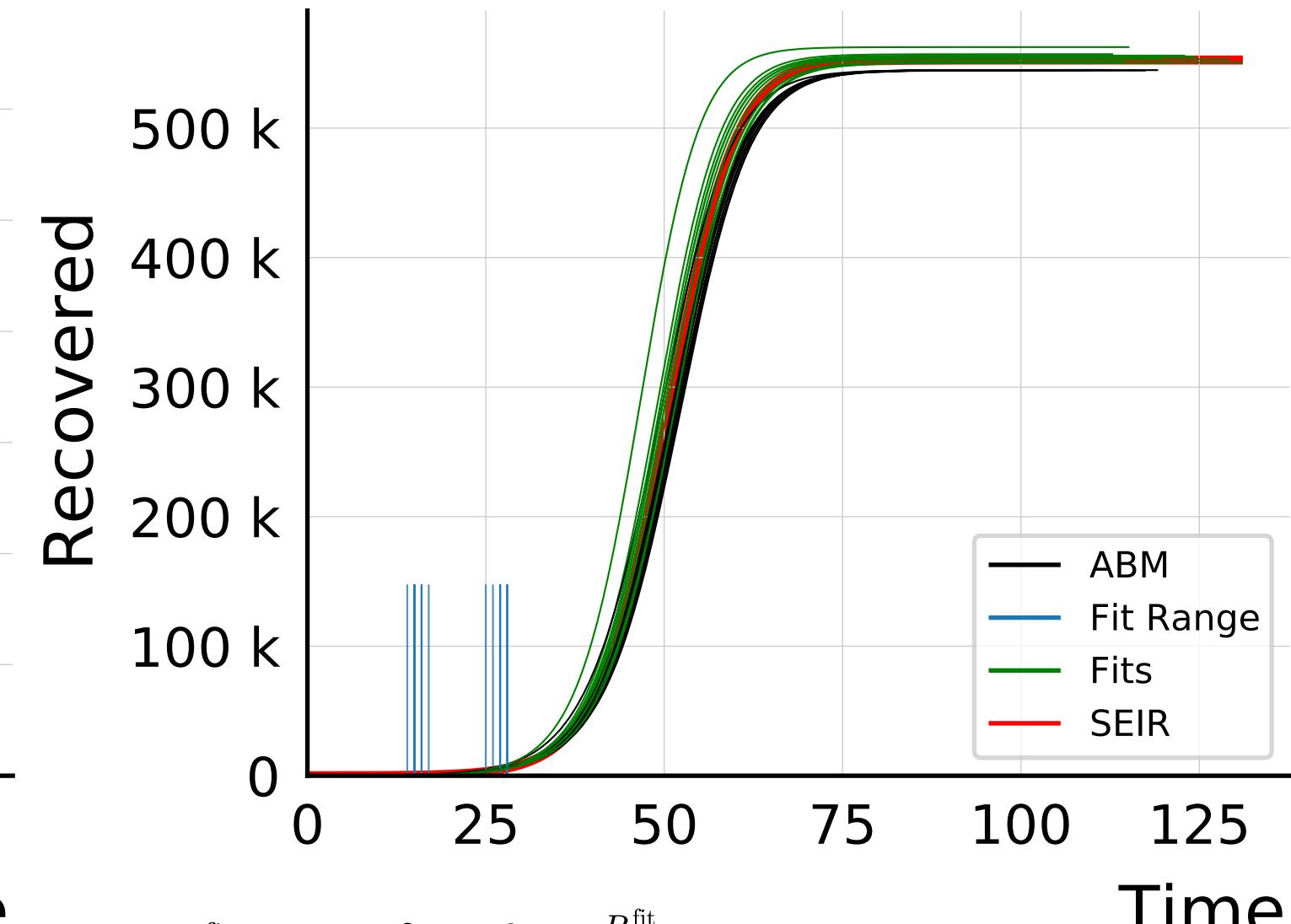
$$R_{\infty}^{\text{fit}} = 556.4^{+1.5}_{-0.9} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.0167 \pm 0.00089$$

$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 119^{+3}_{-5} \cdot 10^3$$

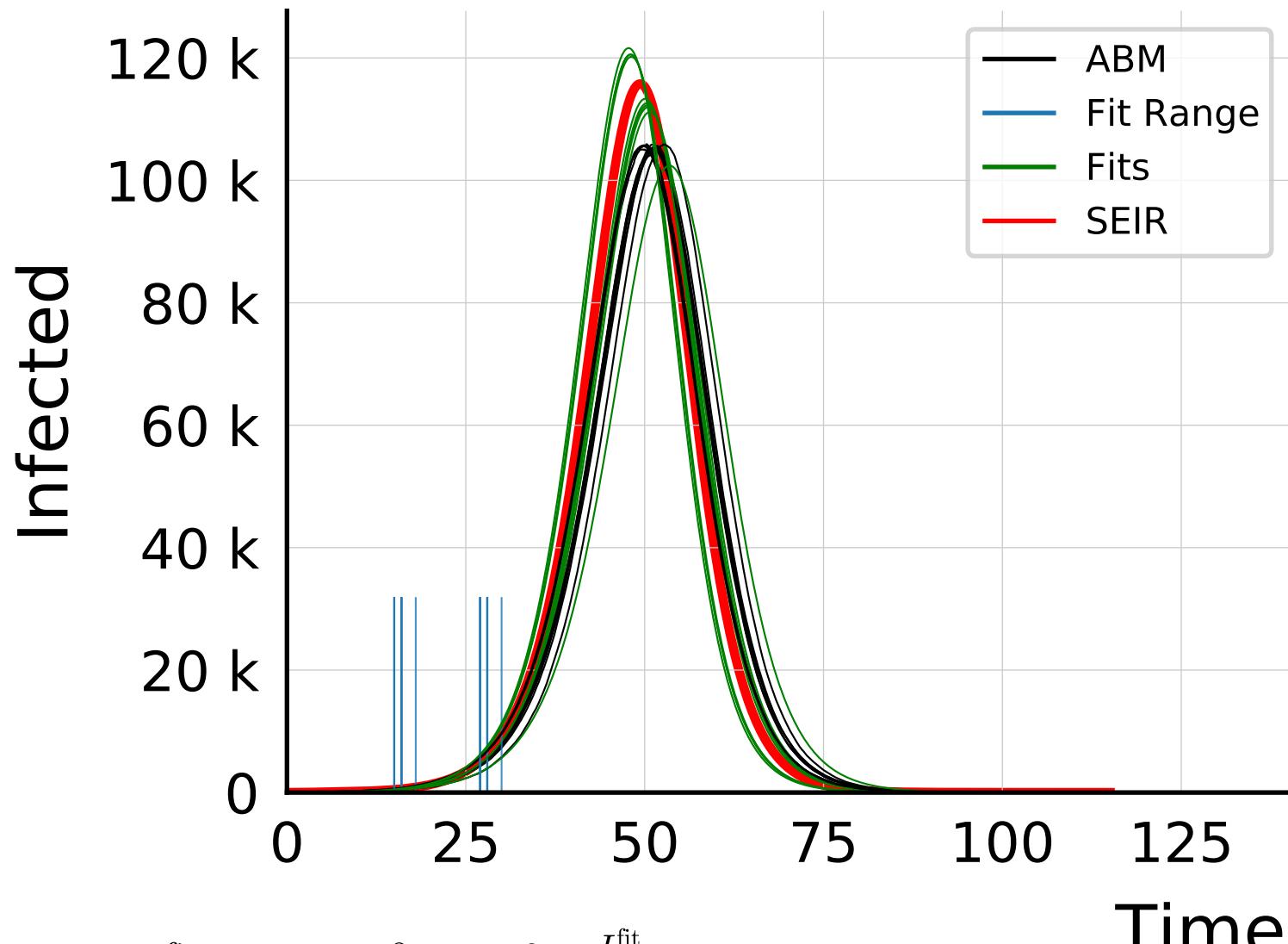
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.1 \pm 0.014$$



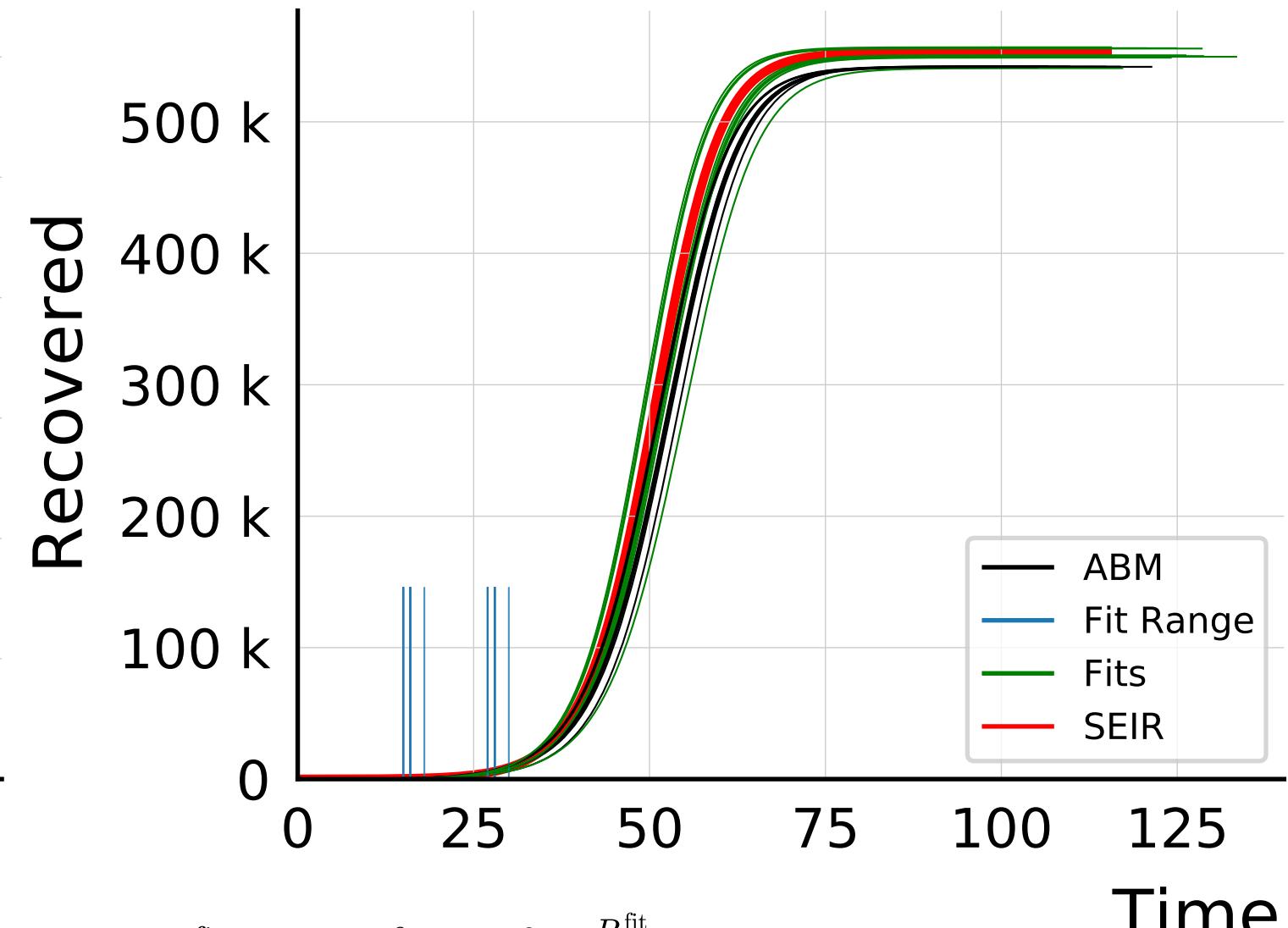
$$R_{\infty}^{\text{fit}} = 555^{+2}_{-4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.018 \pm 0.0020$$

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

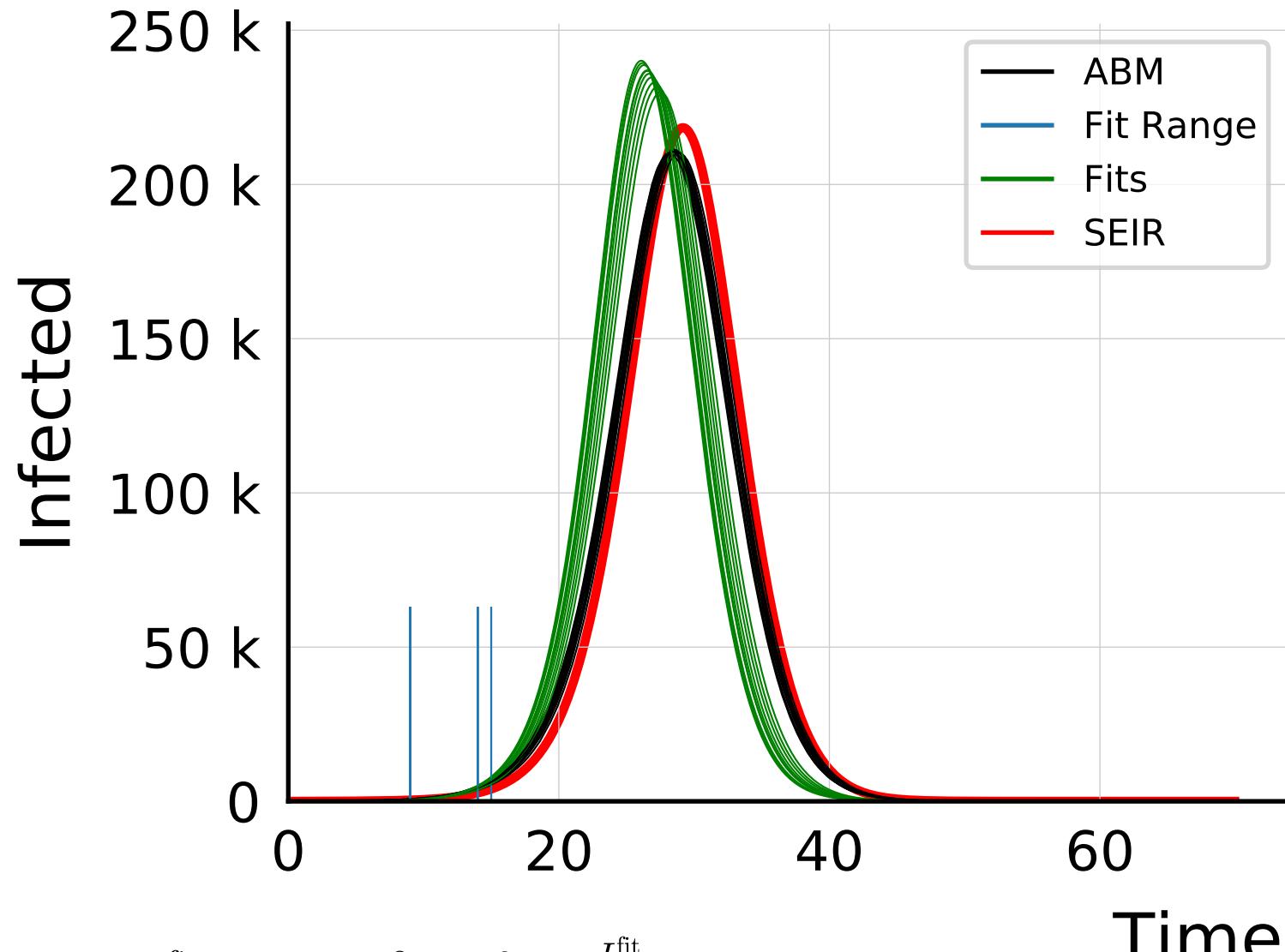


$$I_{\max}^{\text{fit}} = 113^{+8}_{-1.7} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.09 \pm 0.017$$



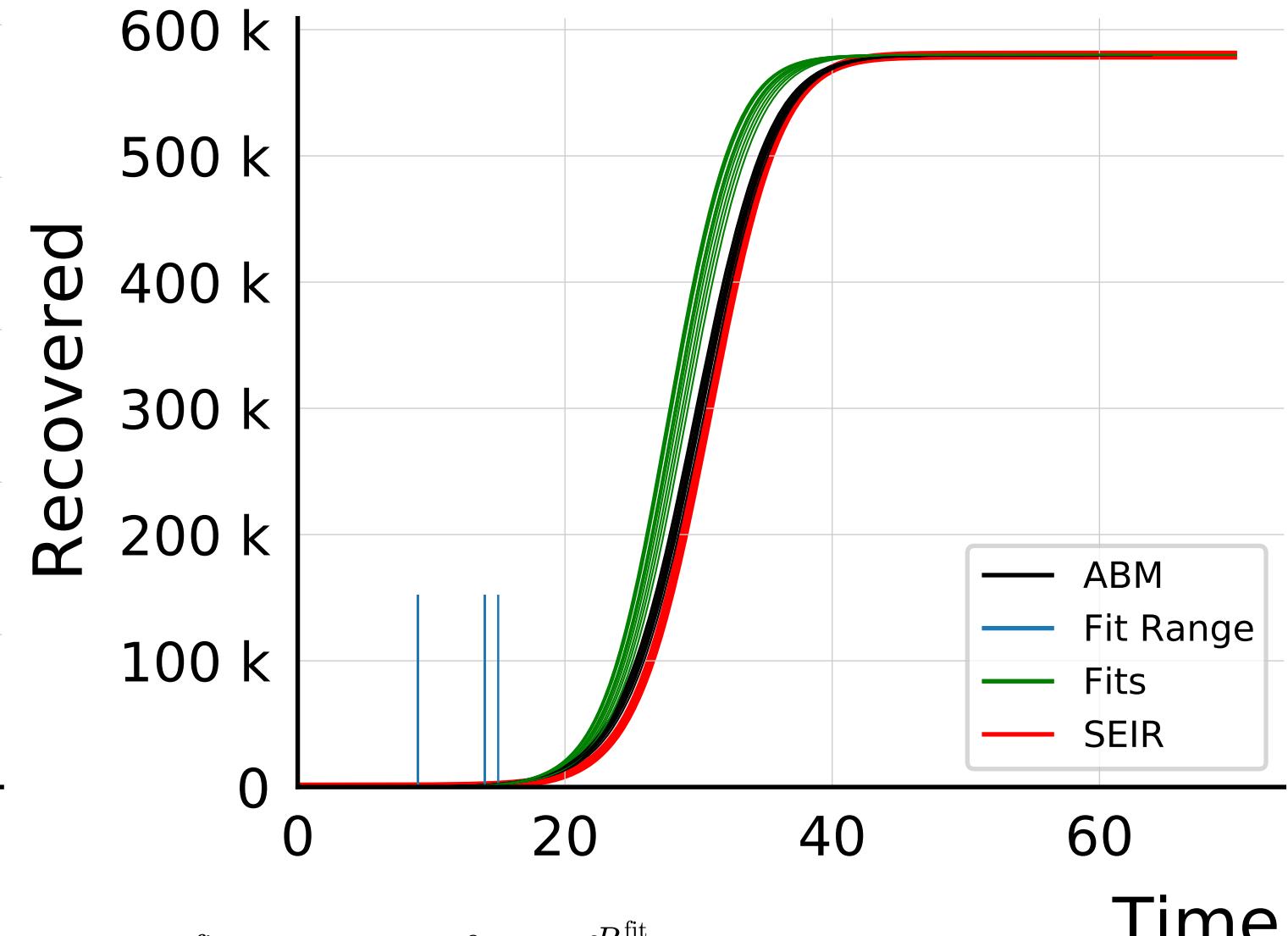
$$R_{\infty}^{\text{fit}} = 550^{+6}_{-1.4} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.018 \pm 0.0028$$

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



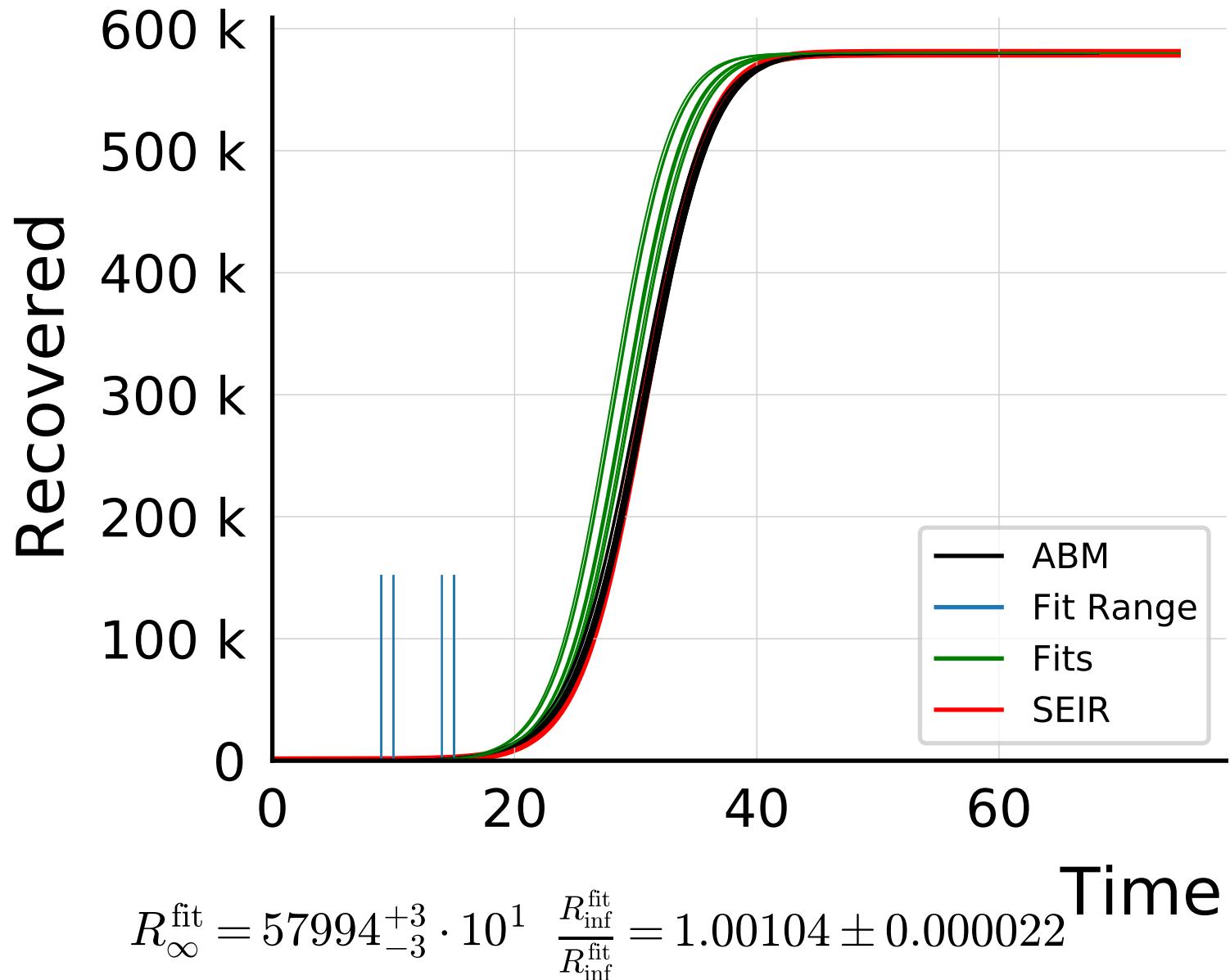
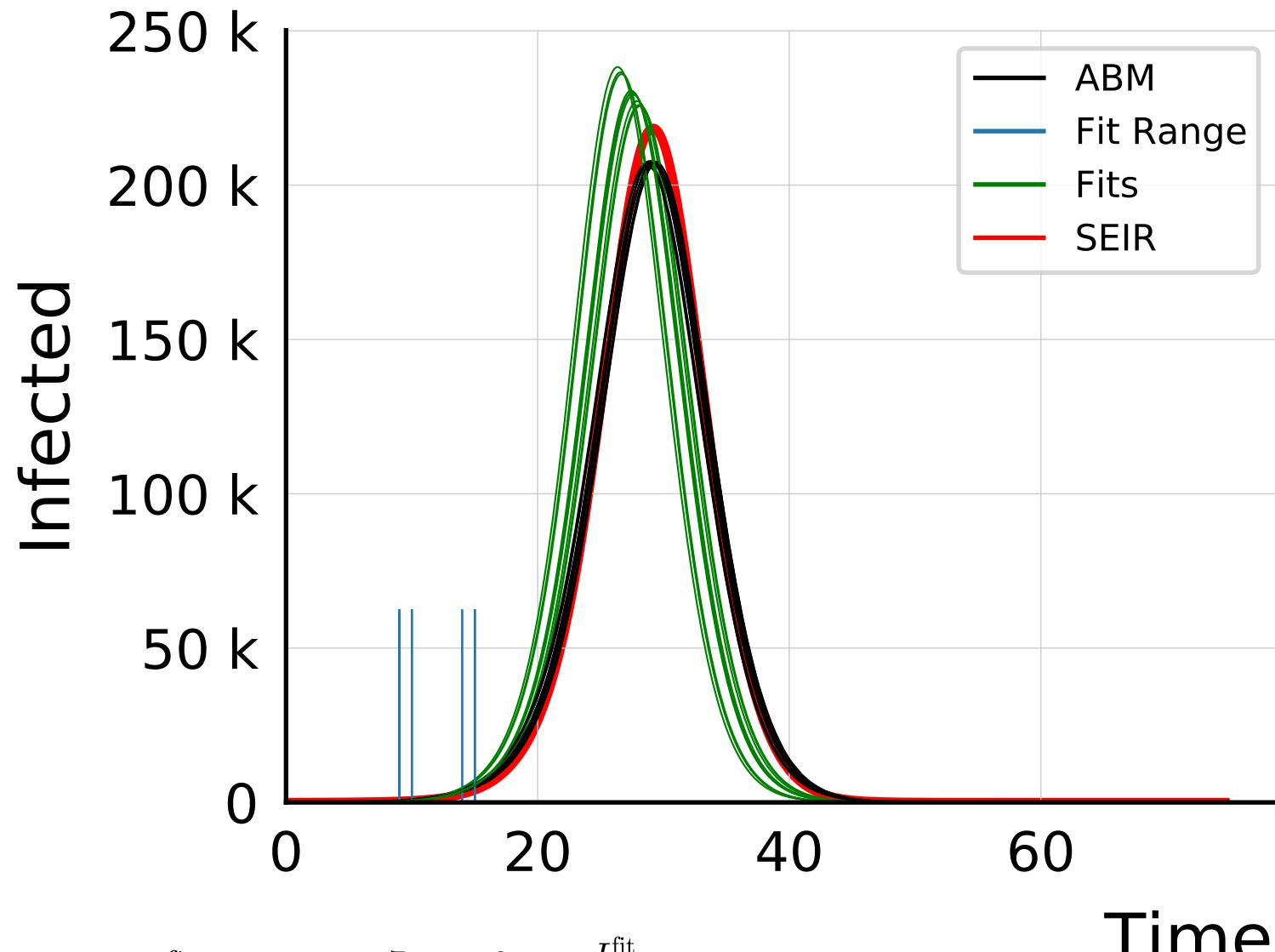
$$I_{\text{max}}^{\text{fit}} = 236_{-5}^{+3} \cdot 10^3$$

$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.118 \pm 0.0049$$

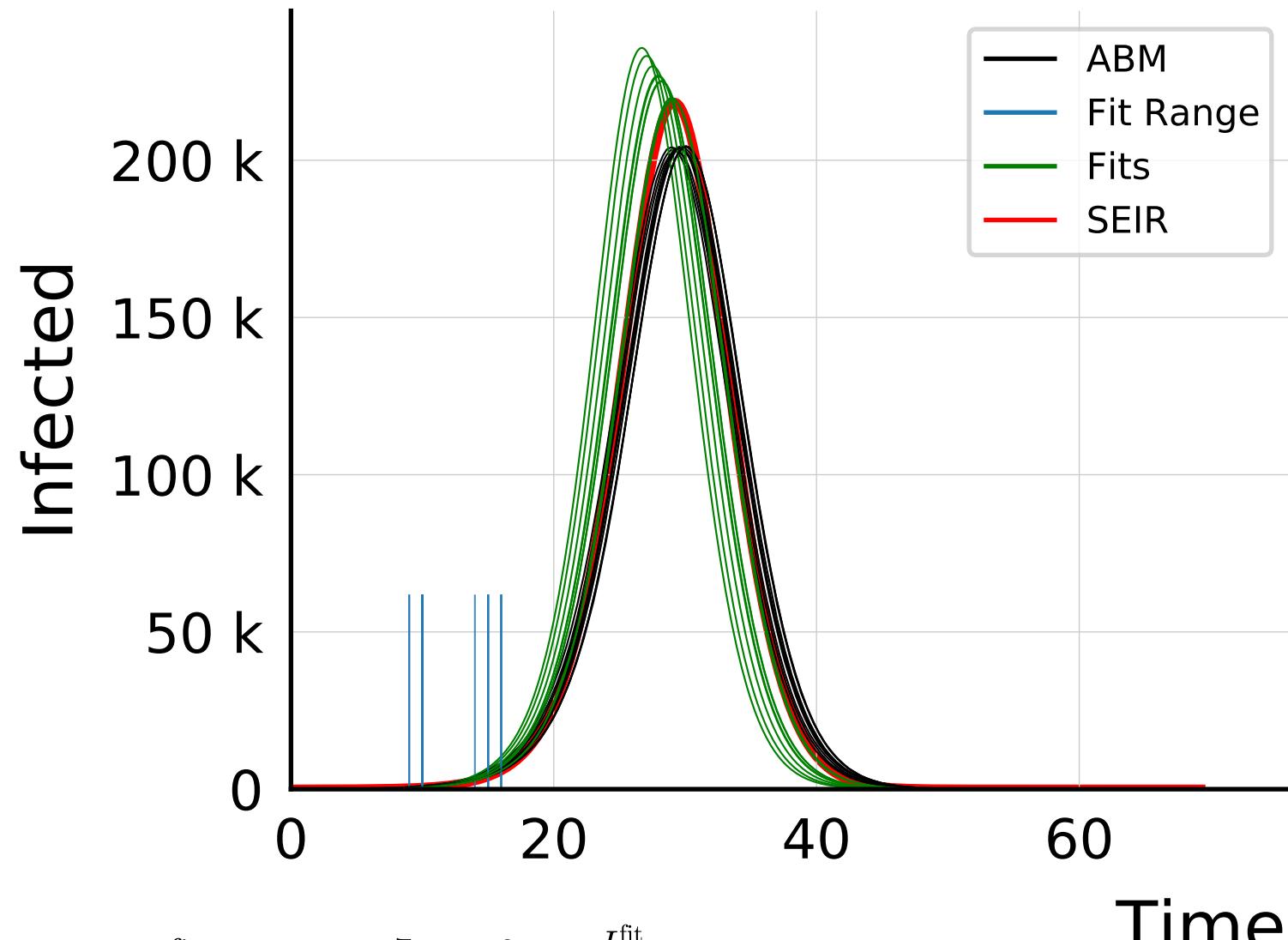


$$R_{\infty}^{\text{fit}} = 579972_{-20}^{+9} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.00077 \pm 0.000016$$

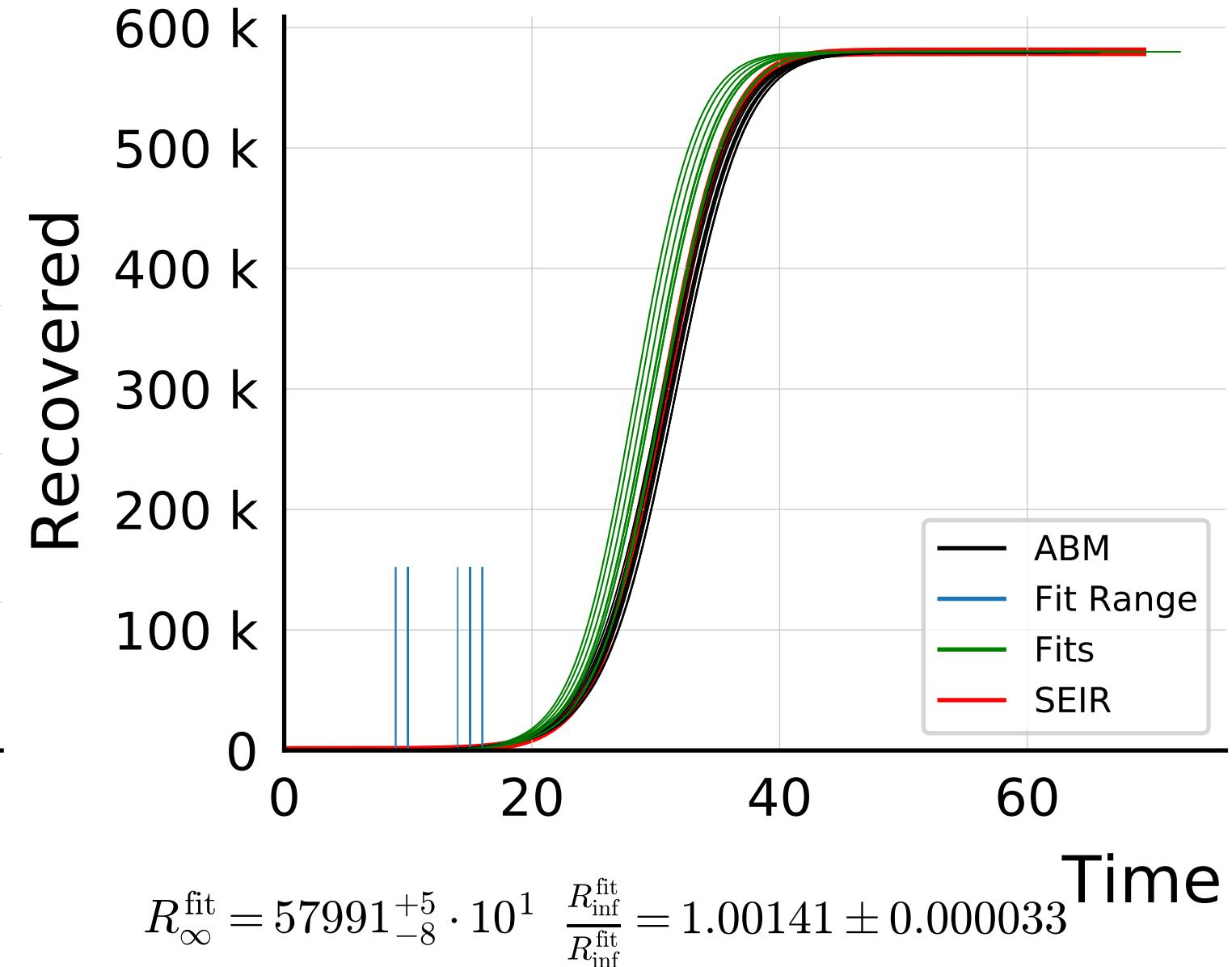
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.05$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

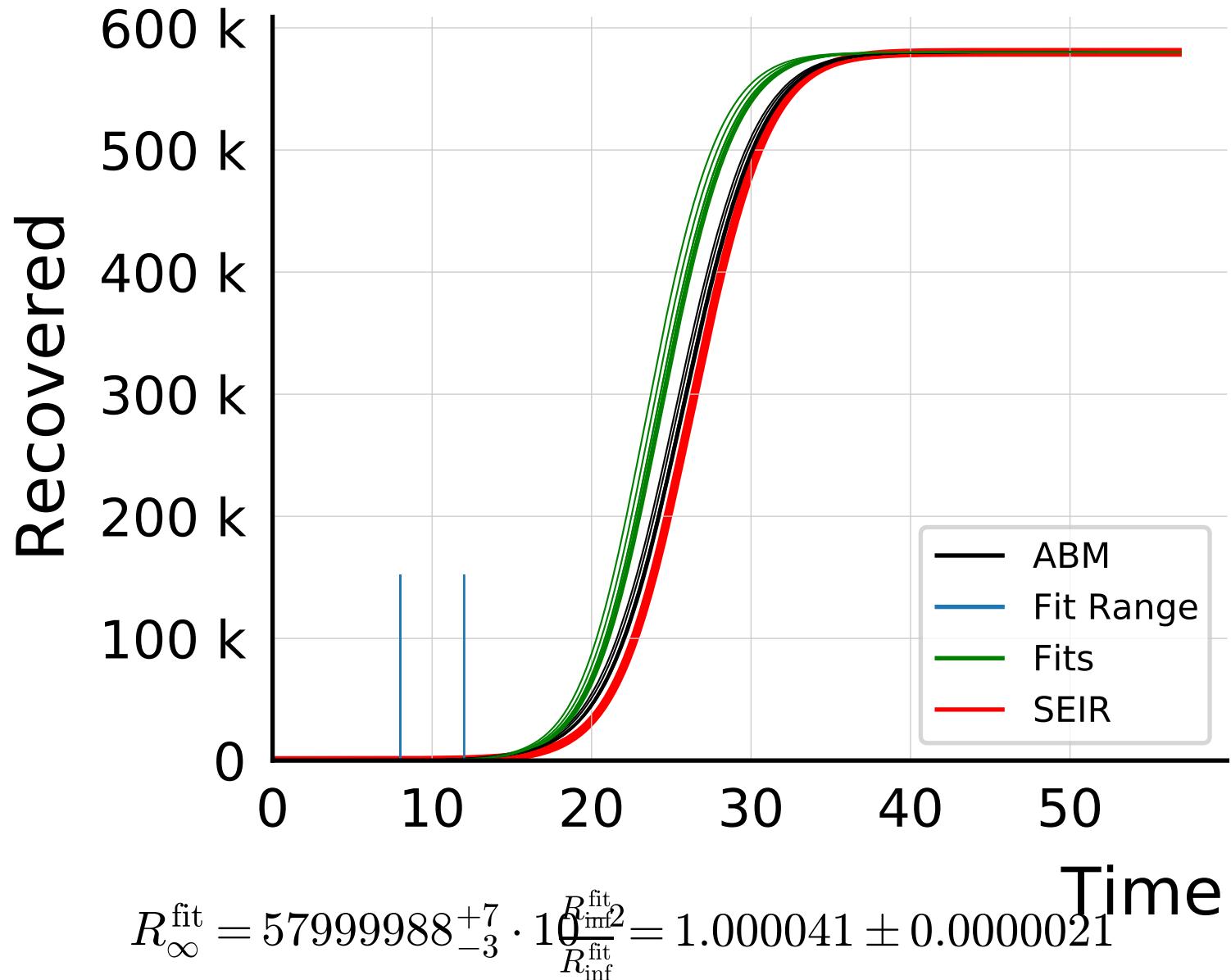
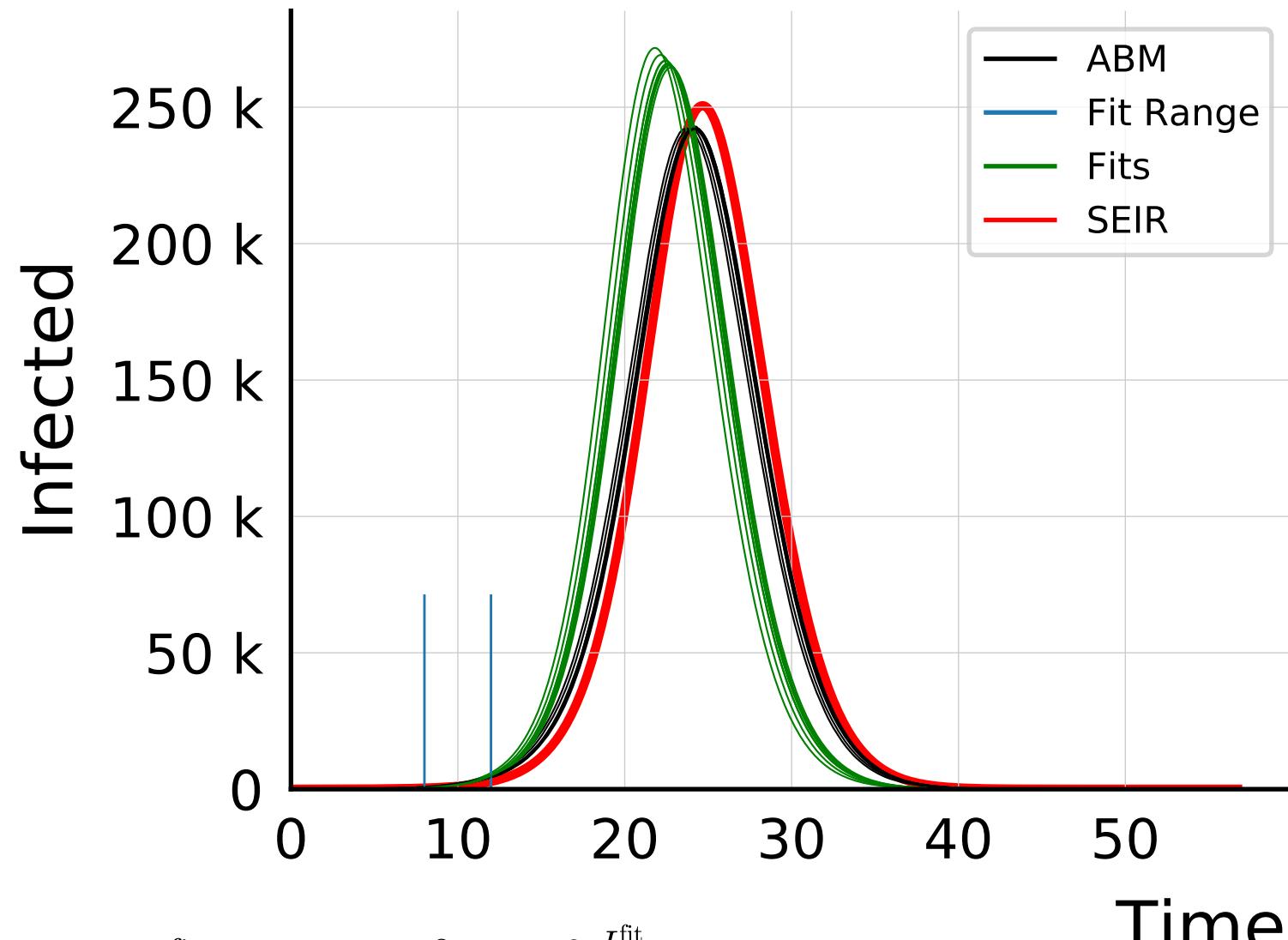


$$I_{\max}^{\text{fit}} = 226_{-7}^{+7} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.108 \pm 0.0088$$

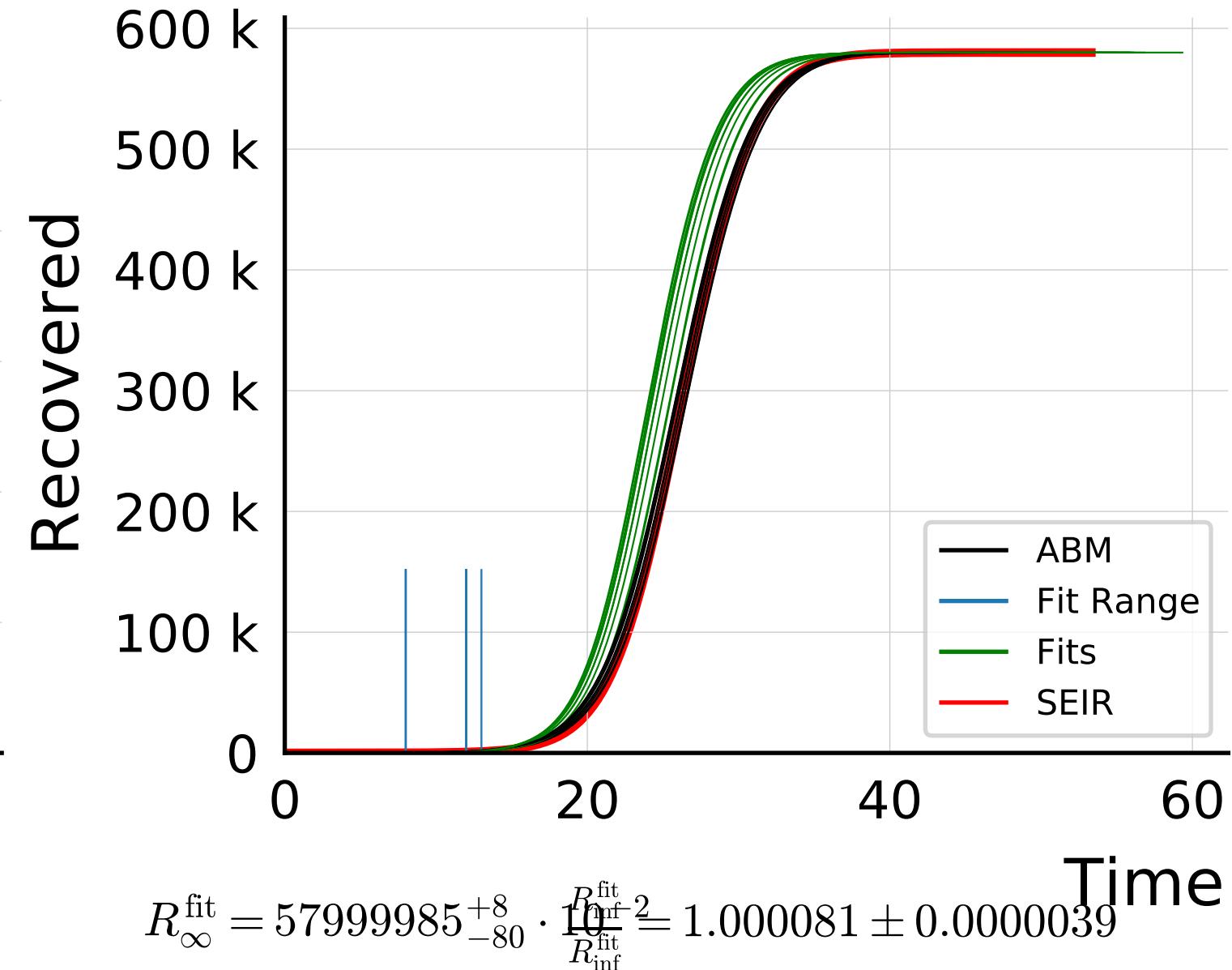
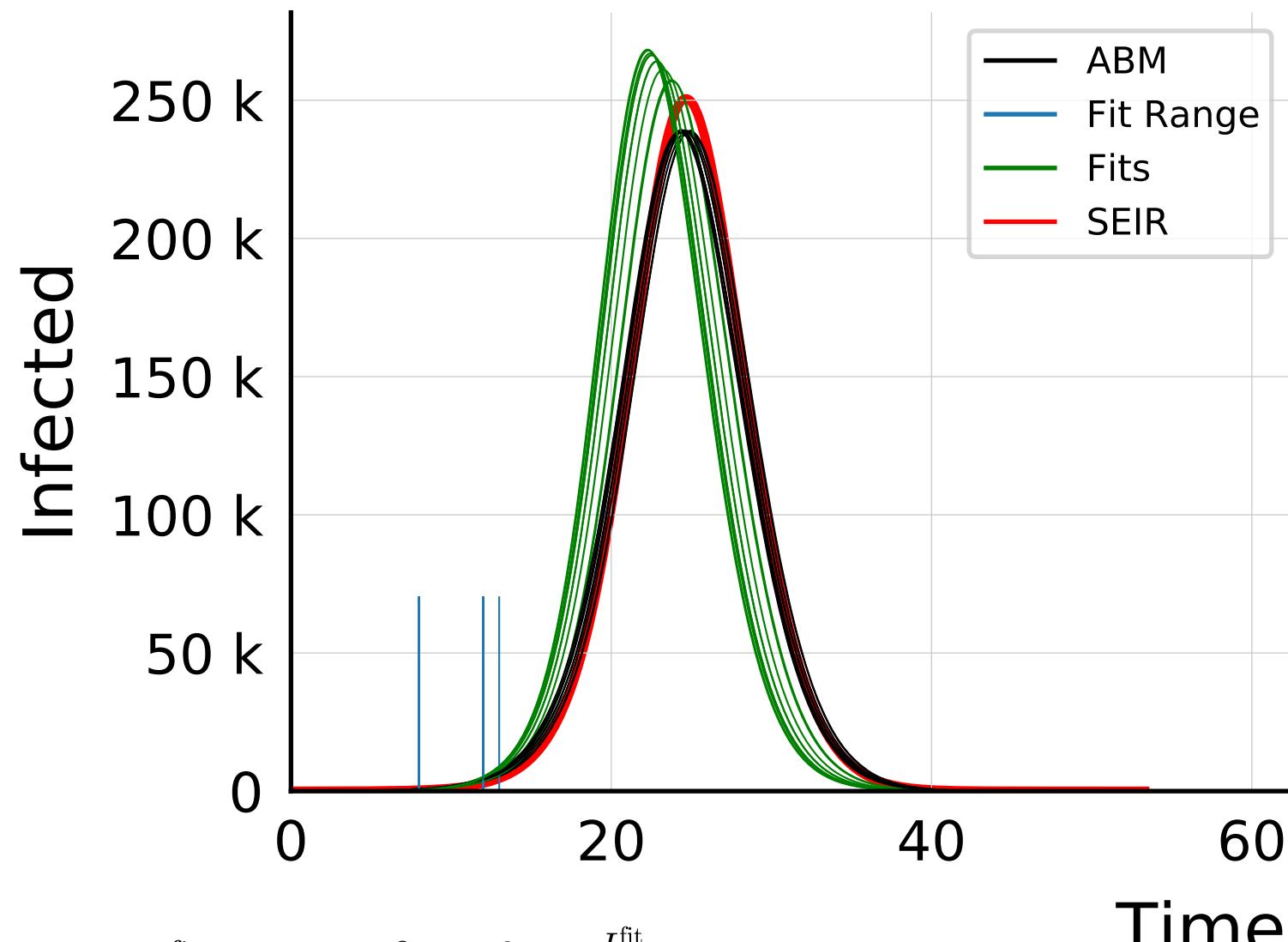


$$R_{\infty}^{\text{fit}} = 57991_{-8}^{+5} \cdot 10^1 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.00141 \pm 0.000033$$

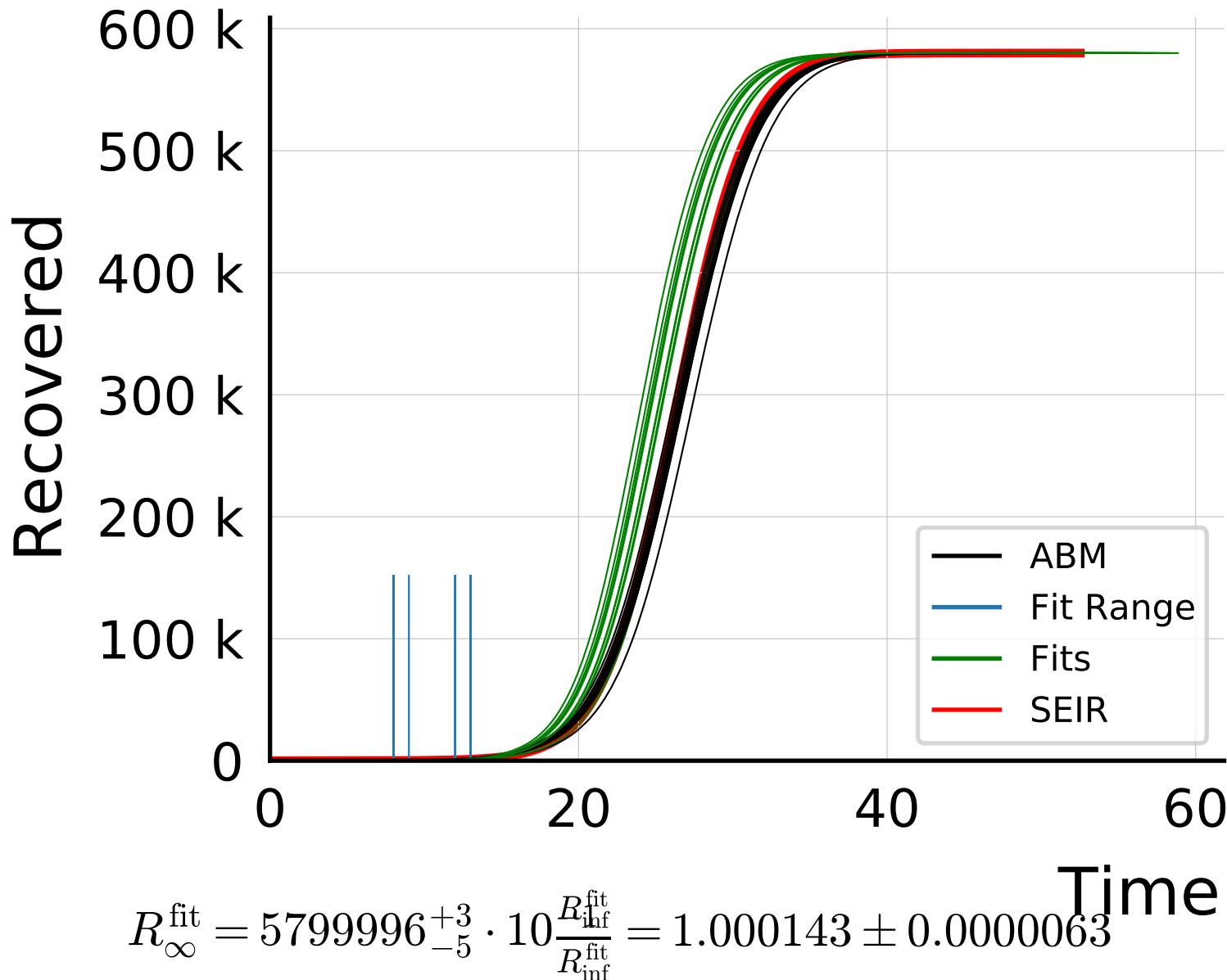
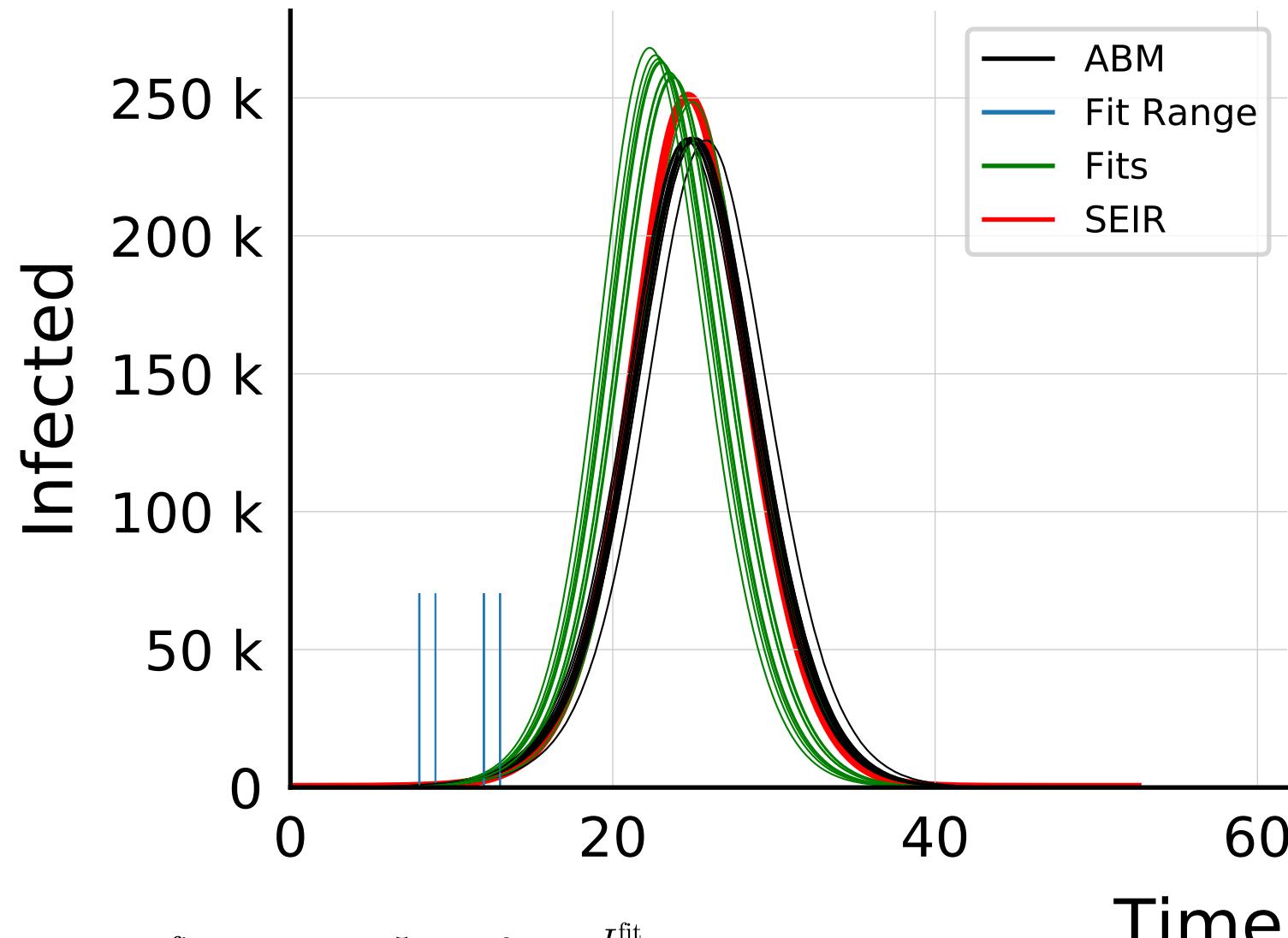
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.075$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



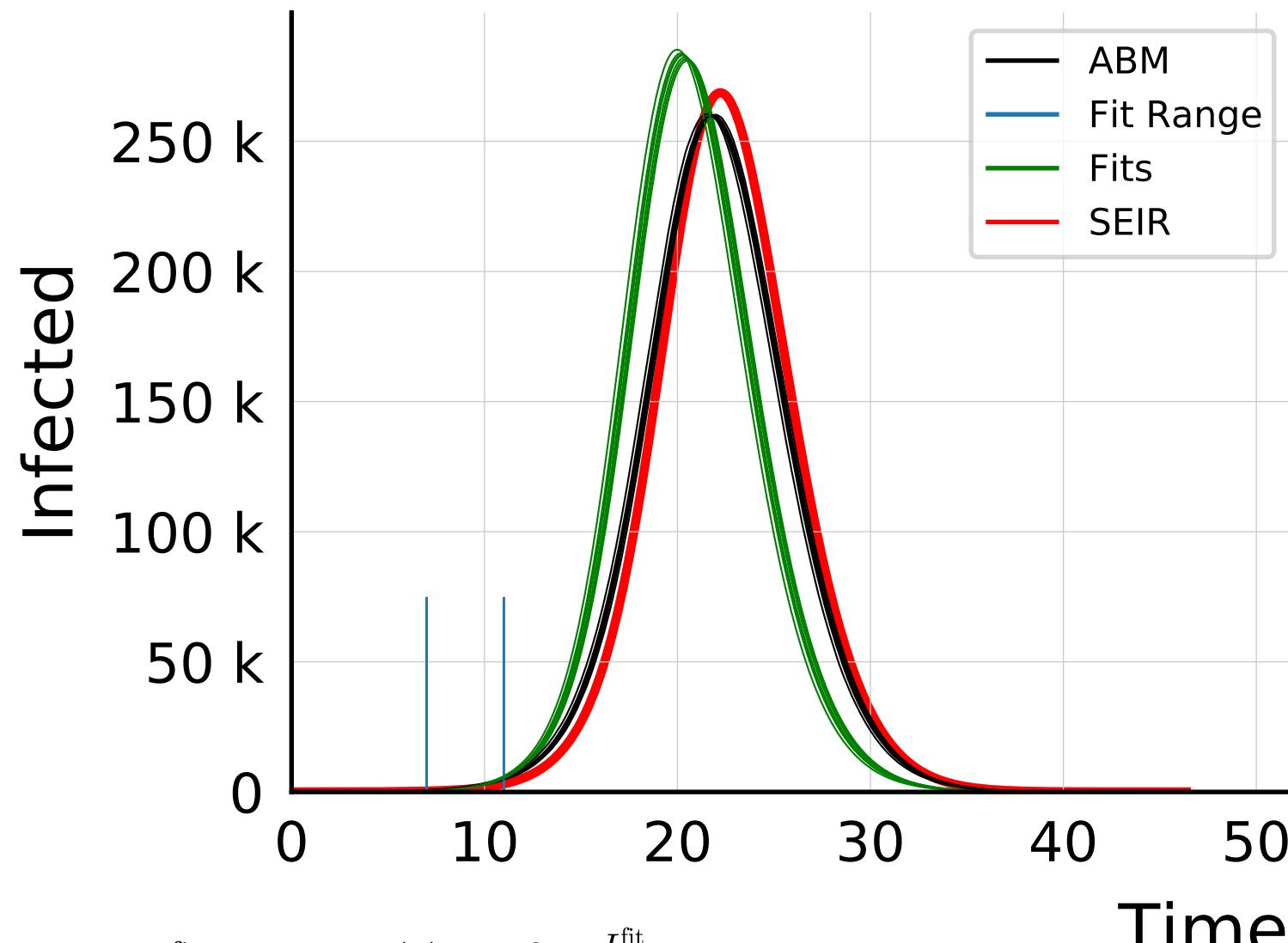
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.075$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



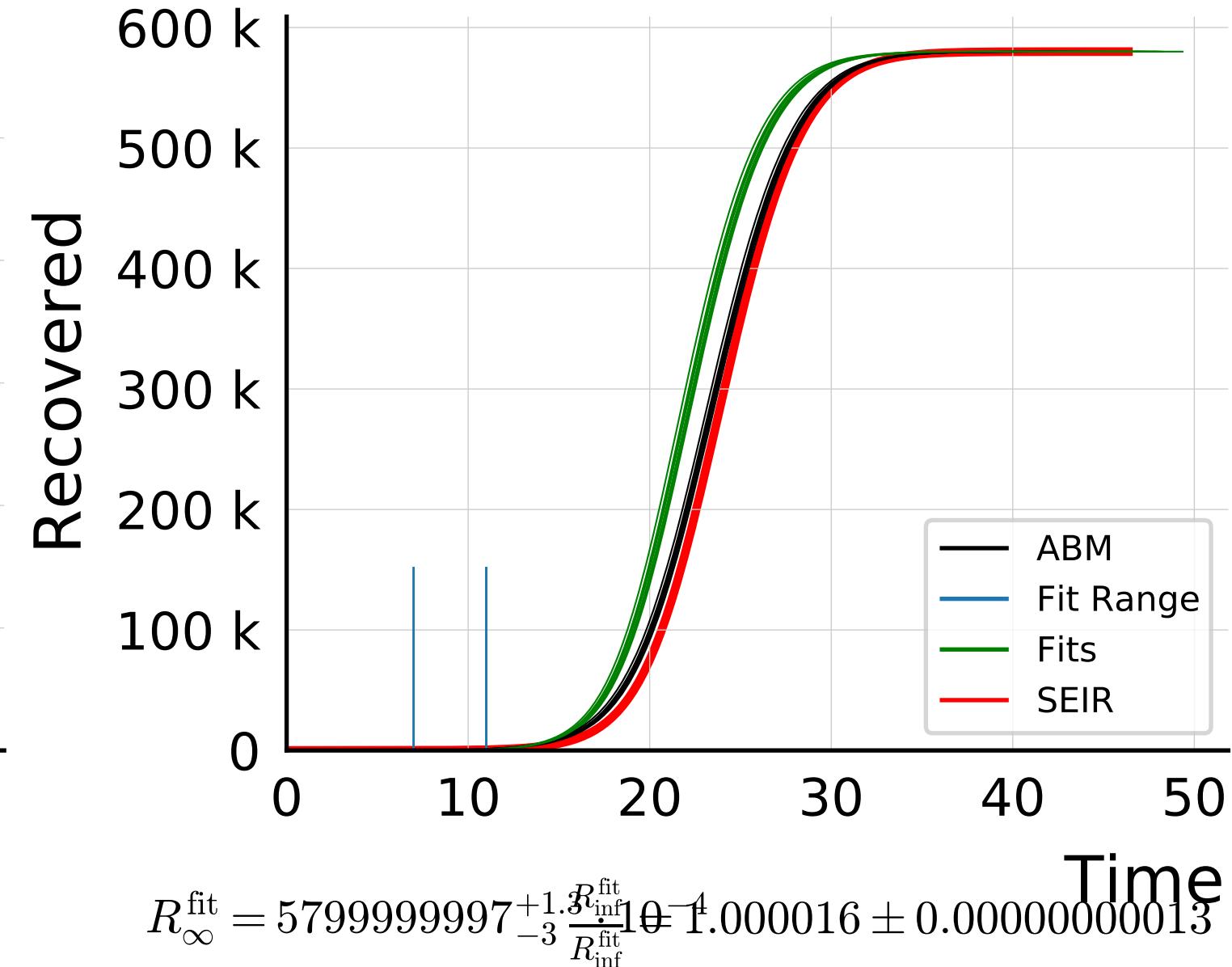
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.075$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.1$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #7

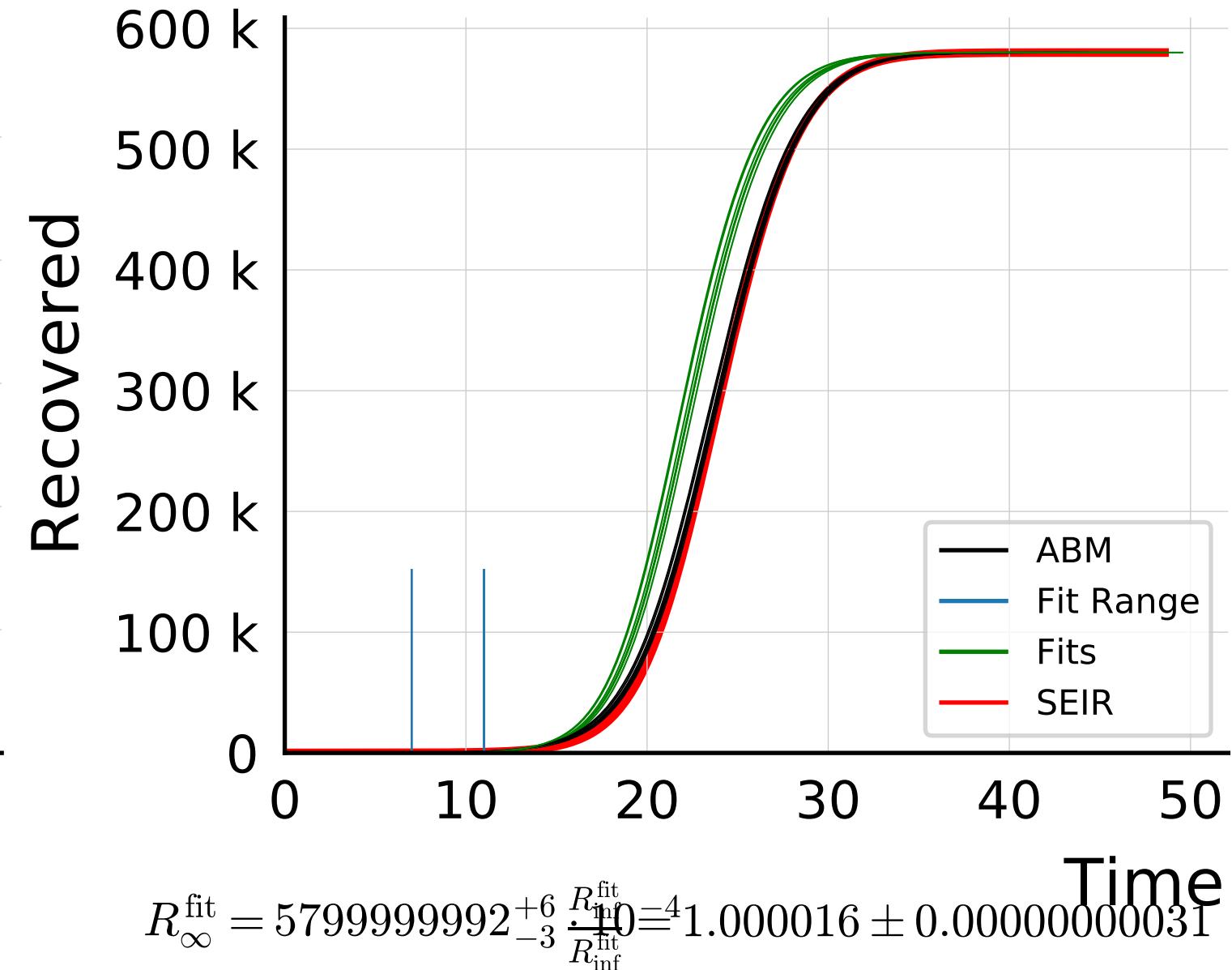
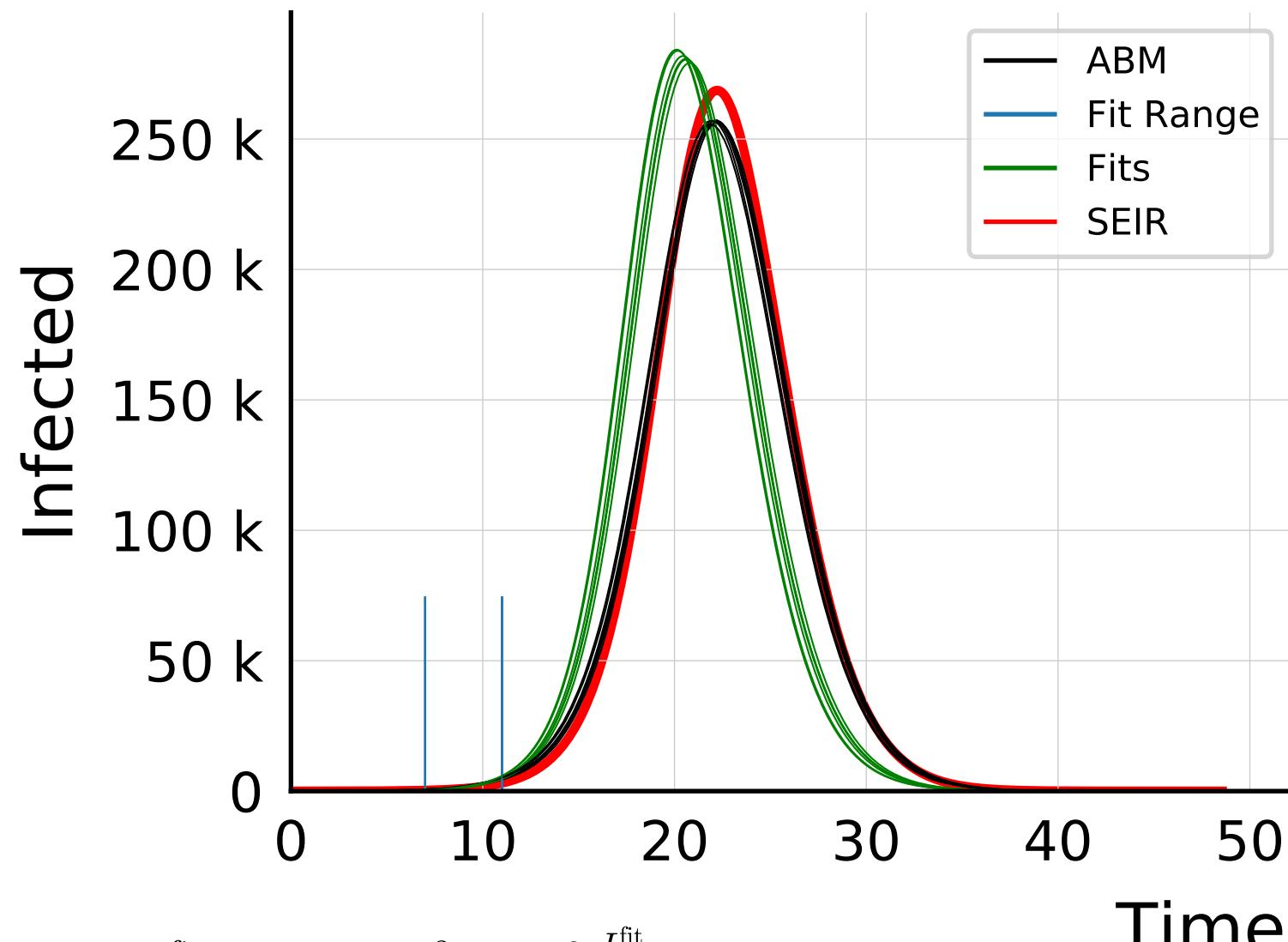


$$I_{\text{max}}^{\text{fit}} = 283^{+1.1}_{-1.5} \cdot 10^3 \quad \frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.088 \pm 0.0018$$

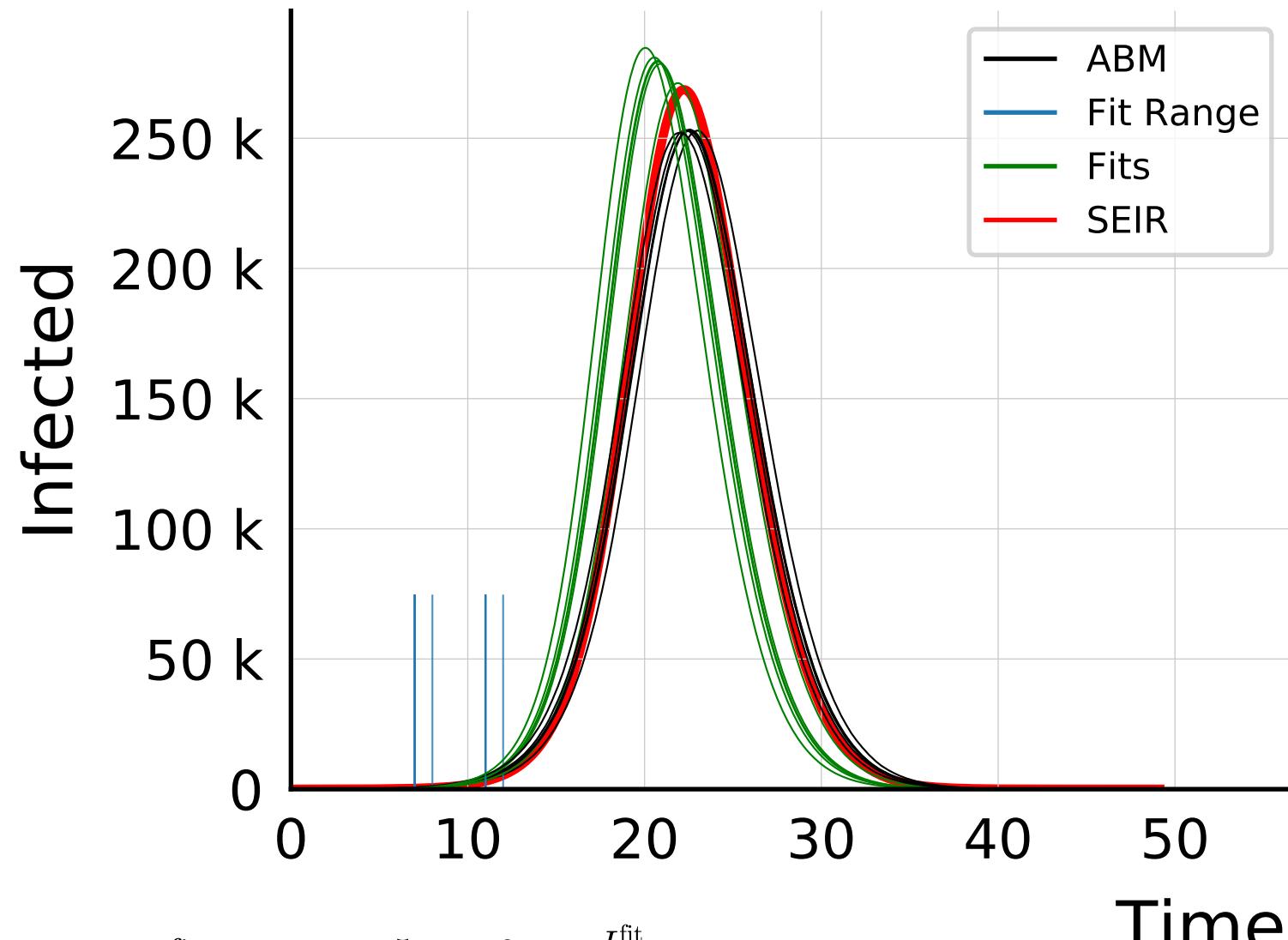


$$R_{\infty}^{\text{fit}} = 5799999997^{+1.3}_{-3} \cdot 10^{-4} \cdot 1.000016 \pm 0.00000000013$$

$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.1$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #7

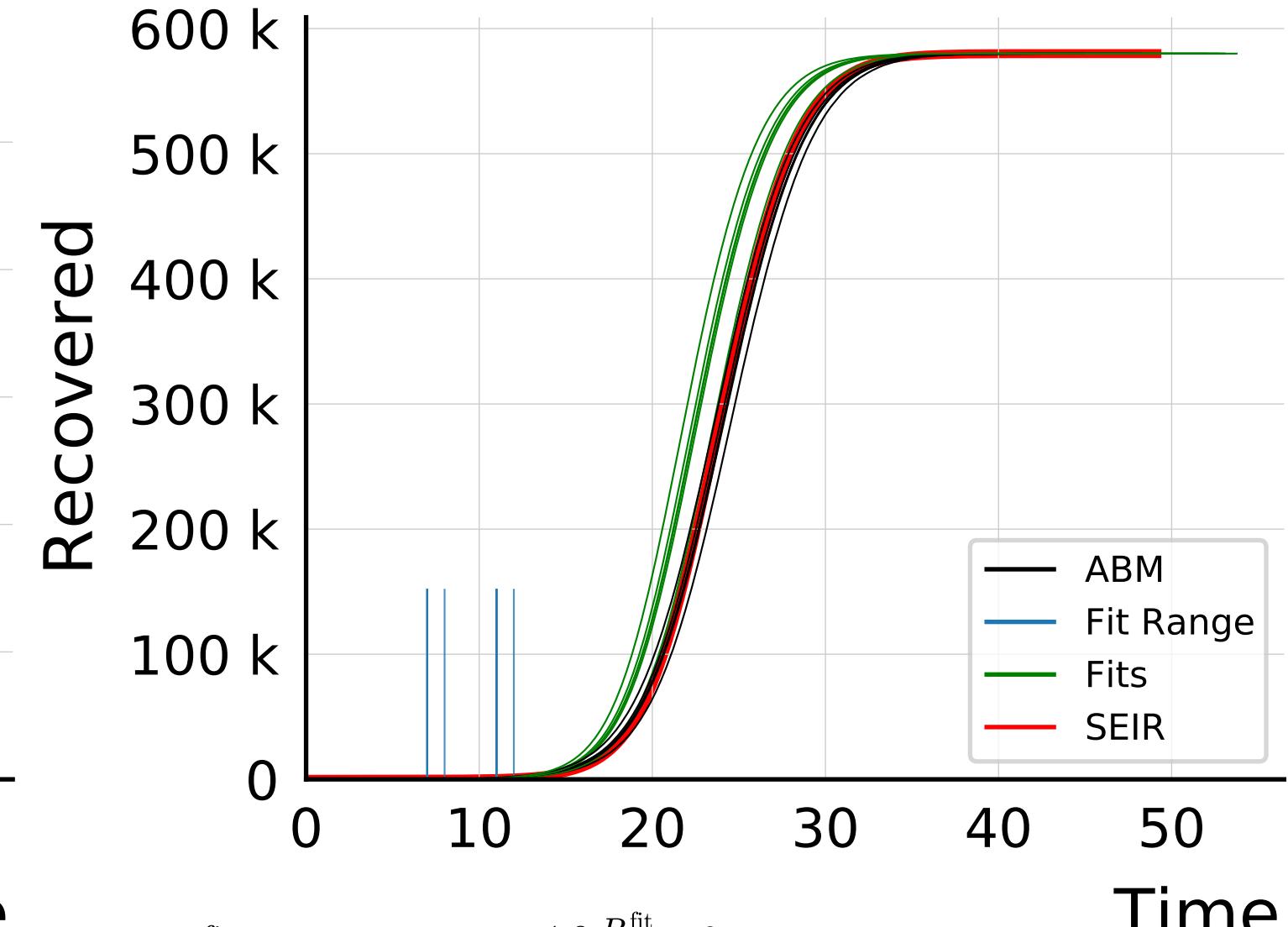


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.1$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #6



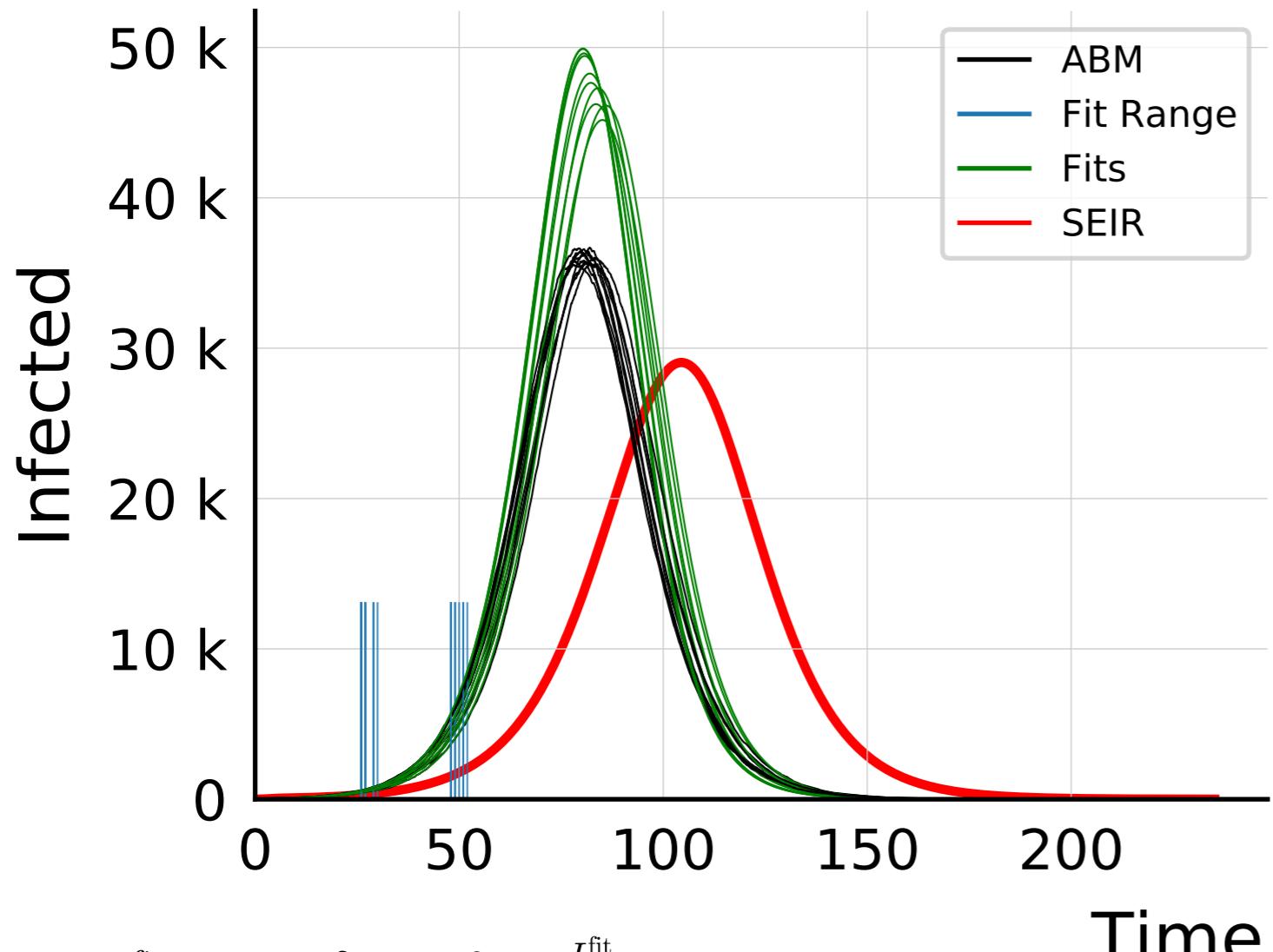
$$I_{\max}^{\text{fit}} = 280^{+5}_{-8} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.104 \pm 0.0069$$



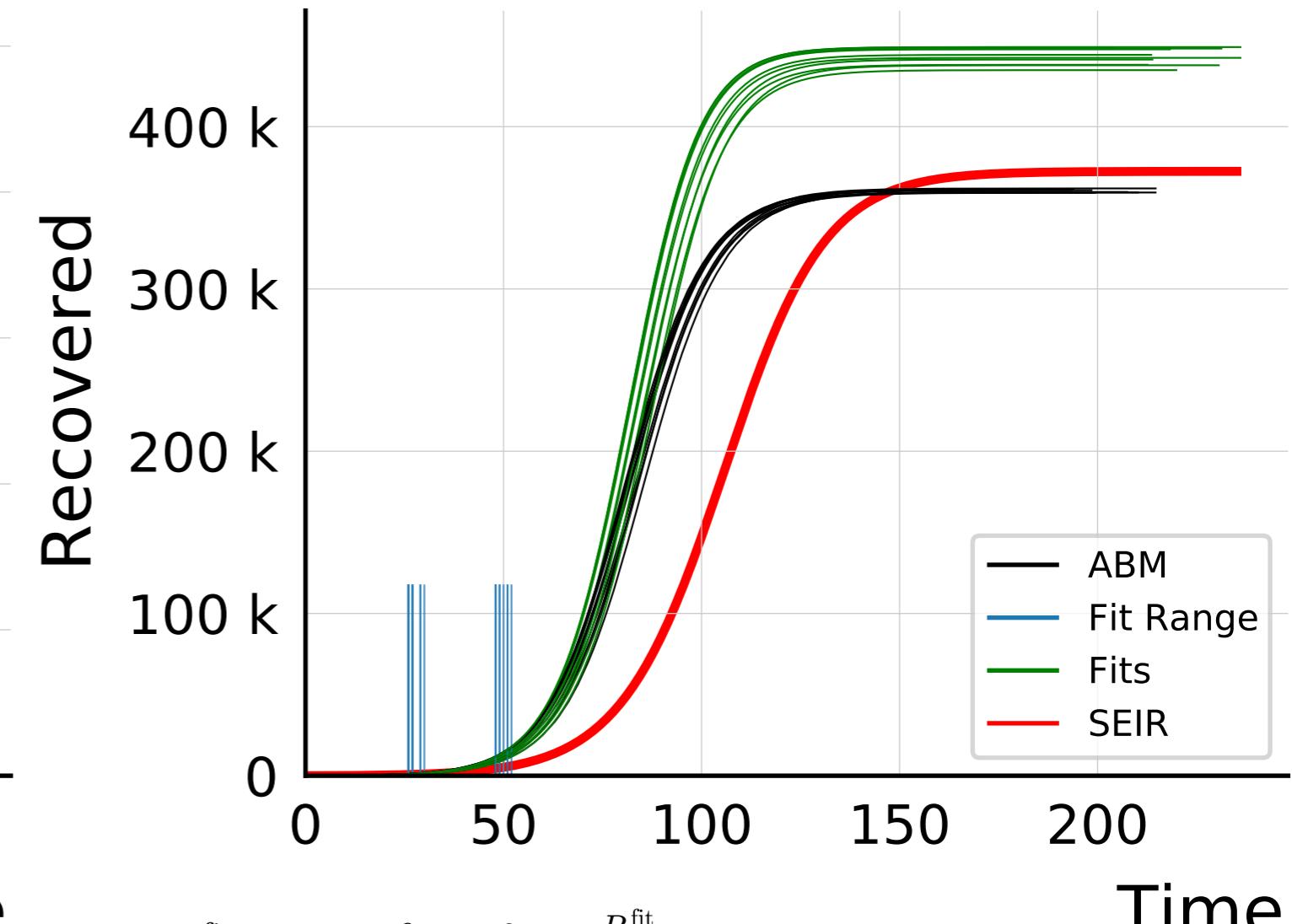
$$R_{\infty}^{\text{fit}} = 579999999^{+1.3}_{-20} \cdot 10^{-3} = 1.00002 \pm 0.0000015$$

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



$$I_{\max}^{\text{fit}} = 48^{+2}_{-1.6} \cdot 10^3$$

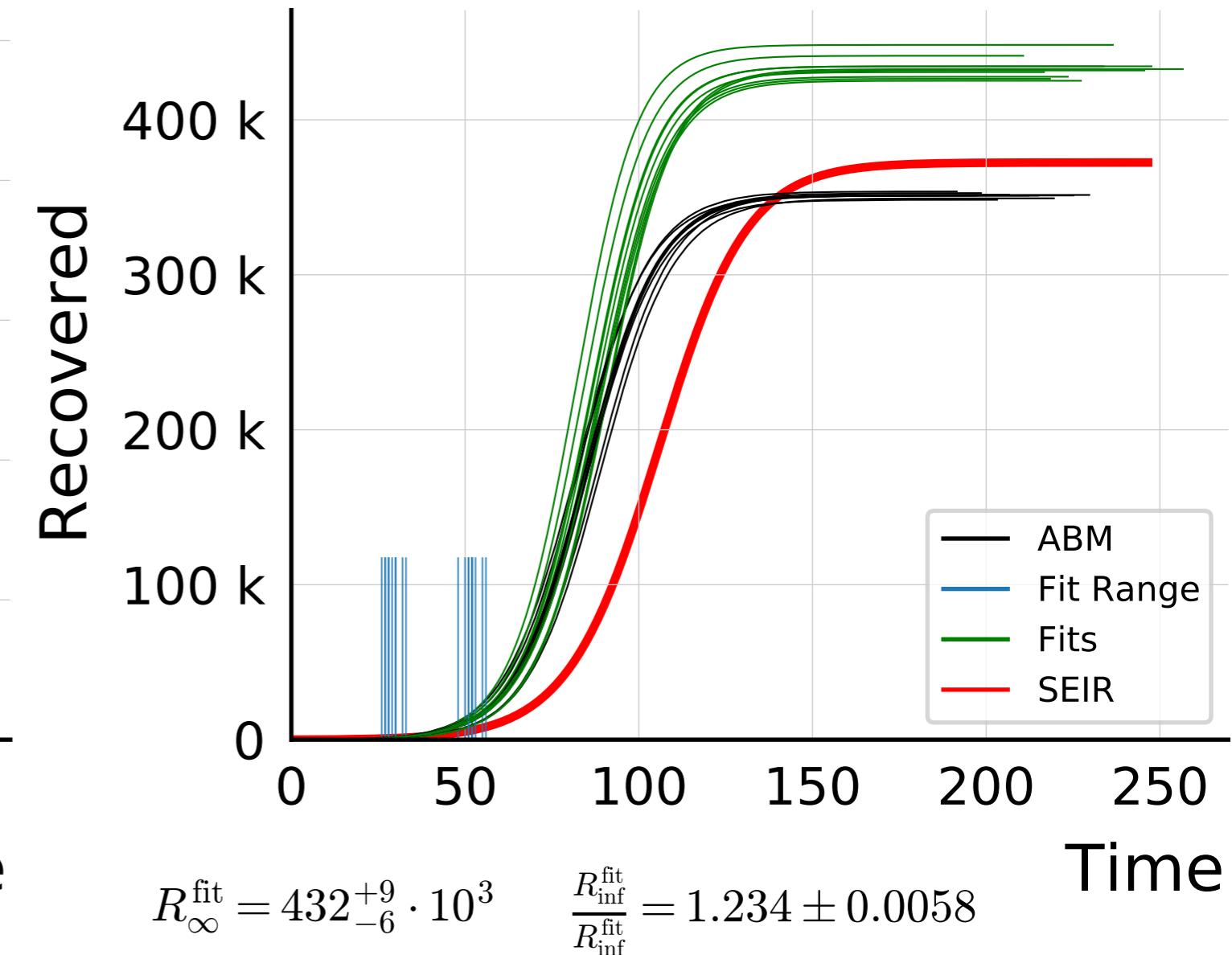
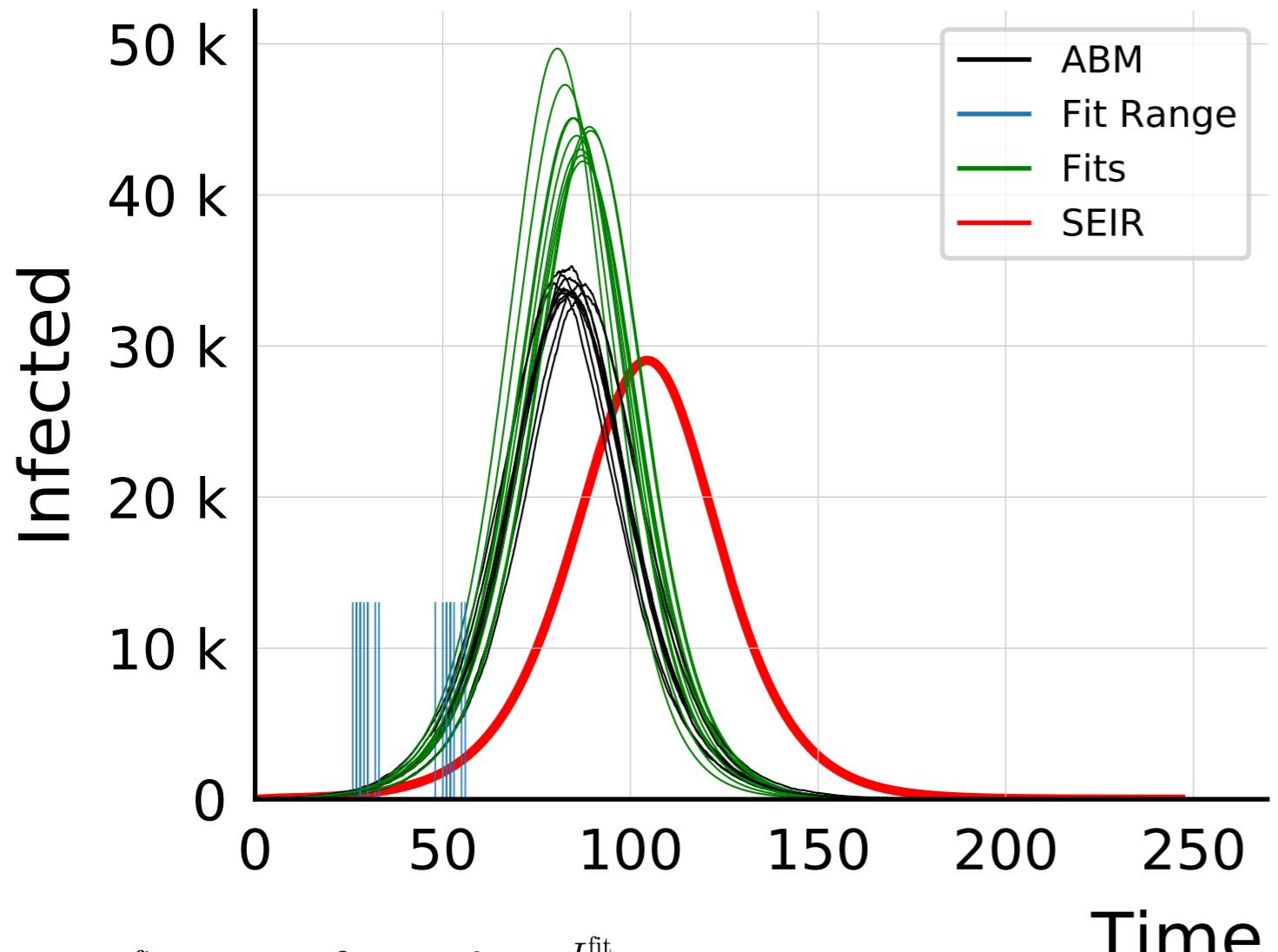
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.33 \pm 0.016$$



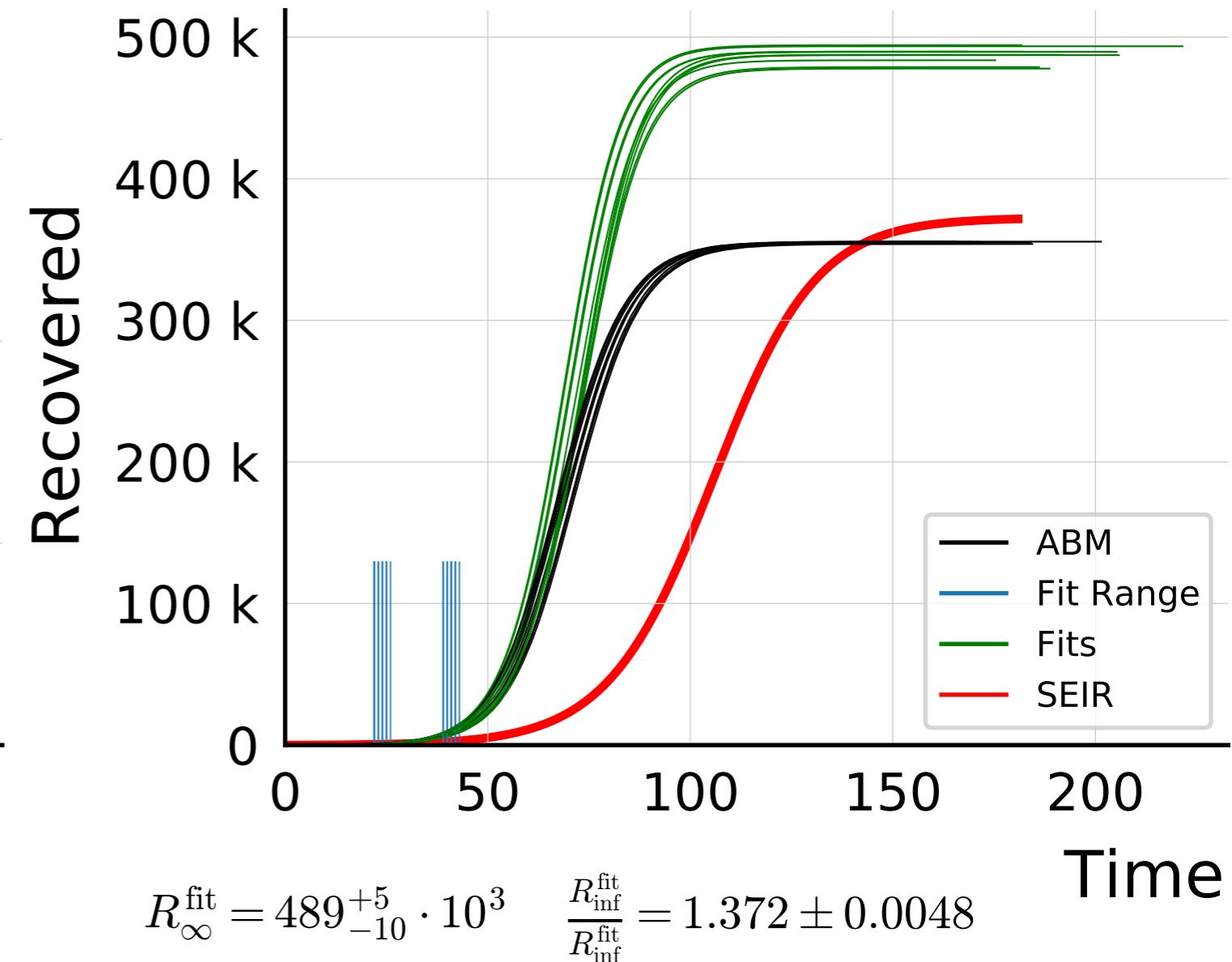
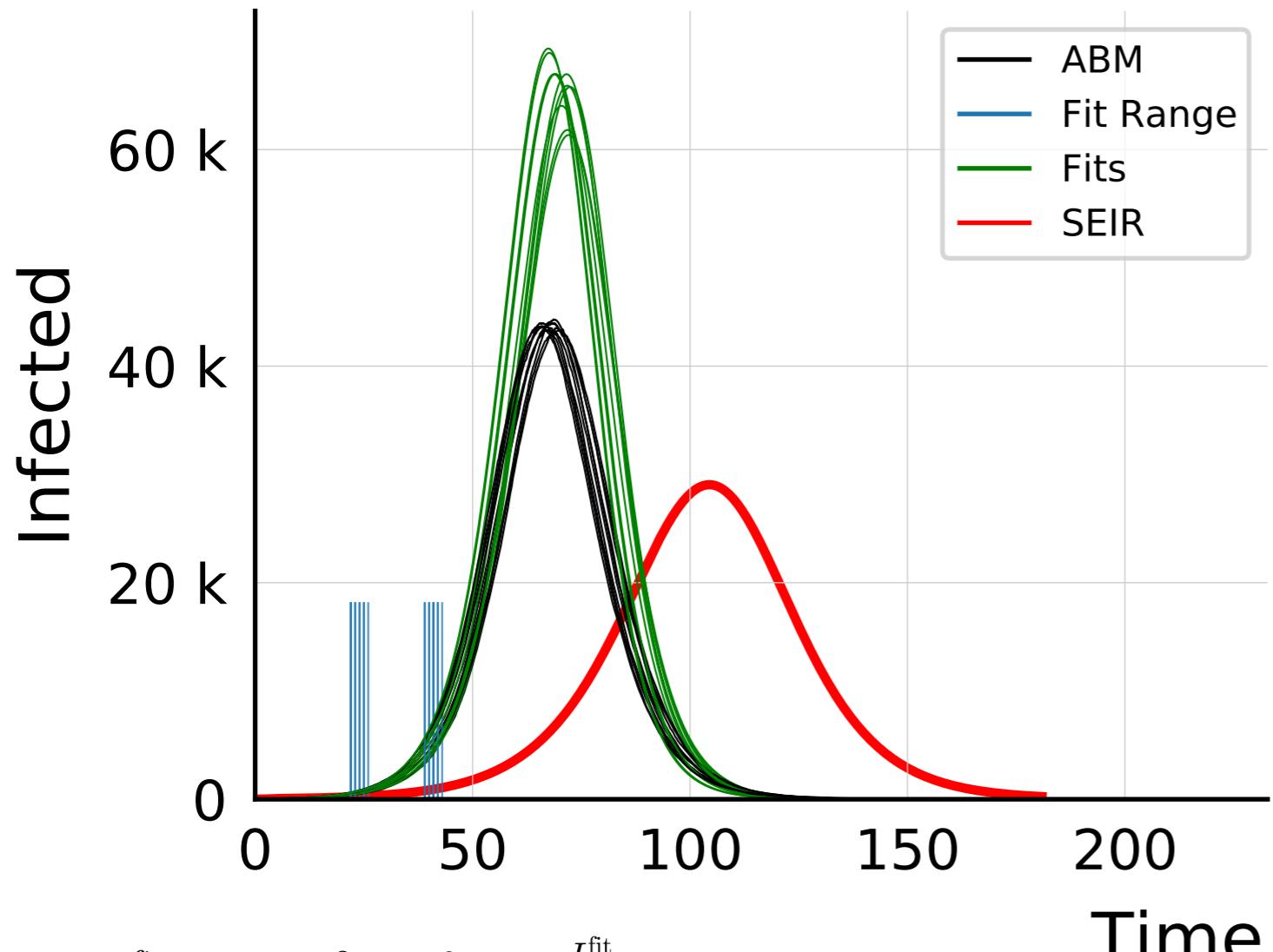
$$R_{\infty}^{\text{fit}} = 443^{+6}_{-5} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.23 \pm 0.0043$$

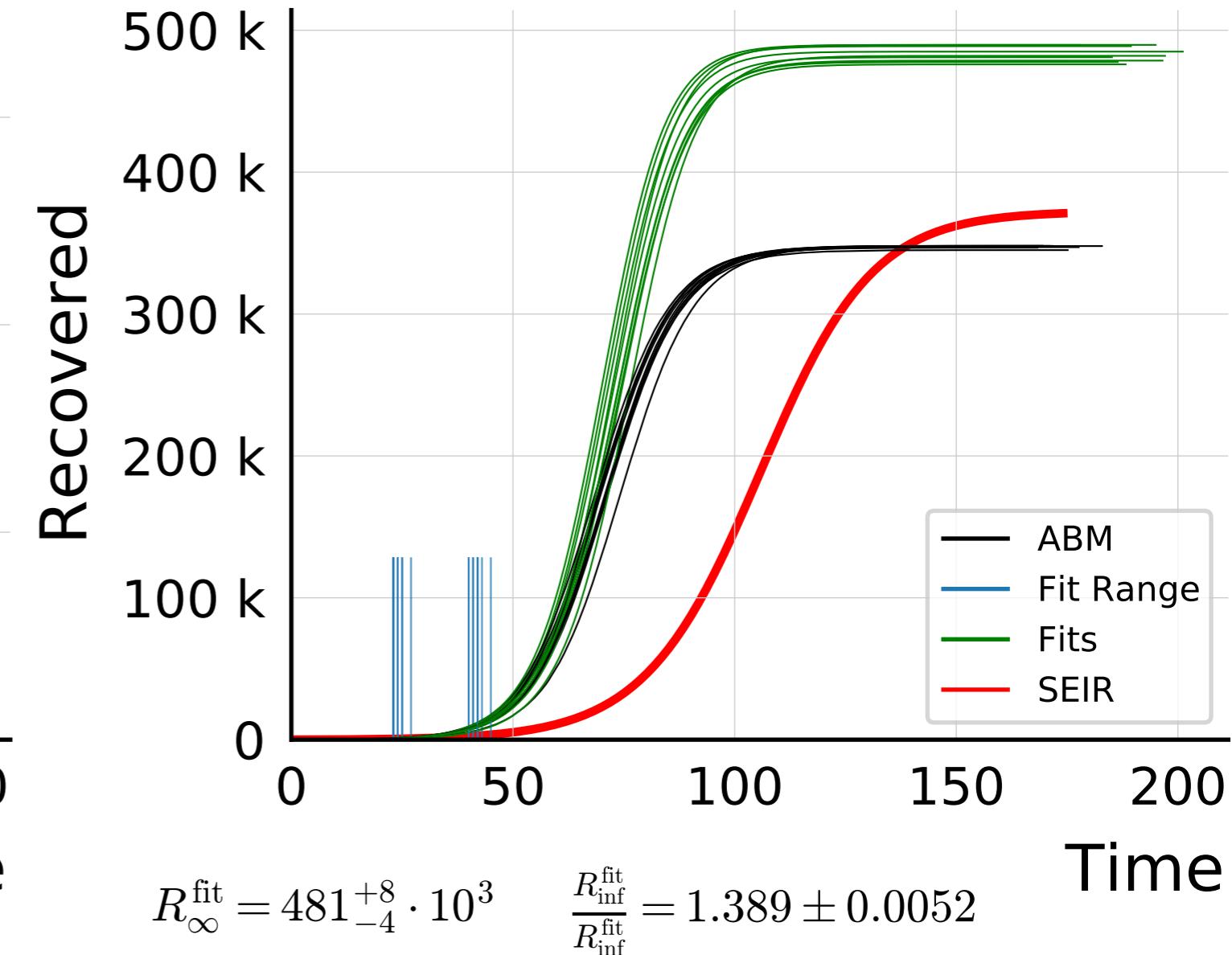
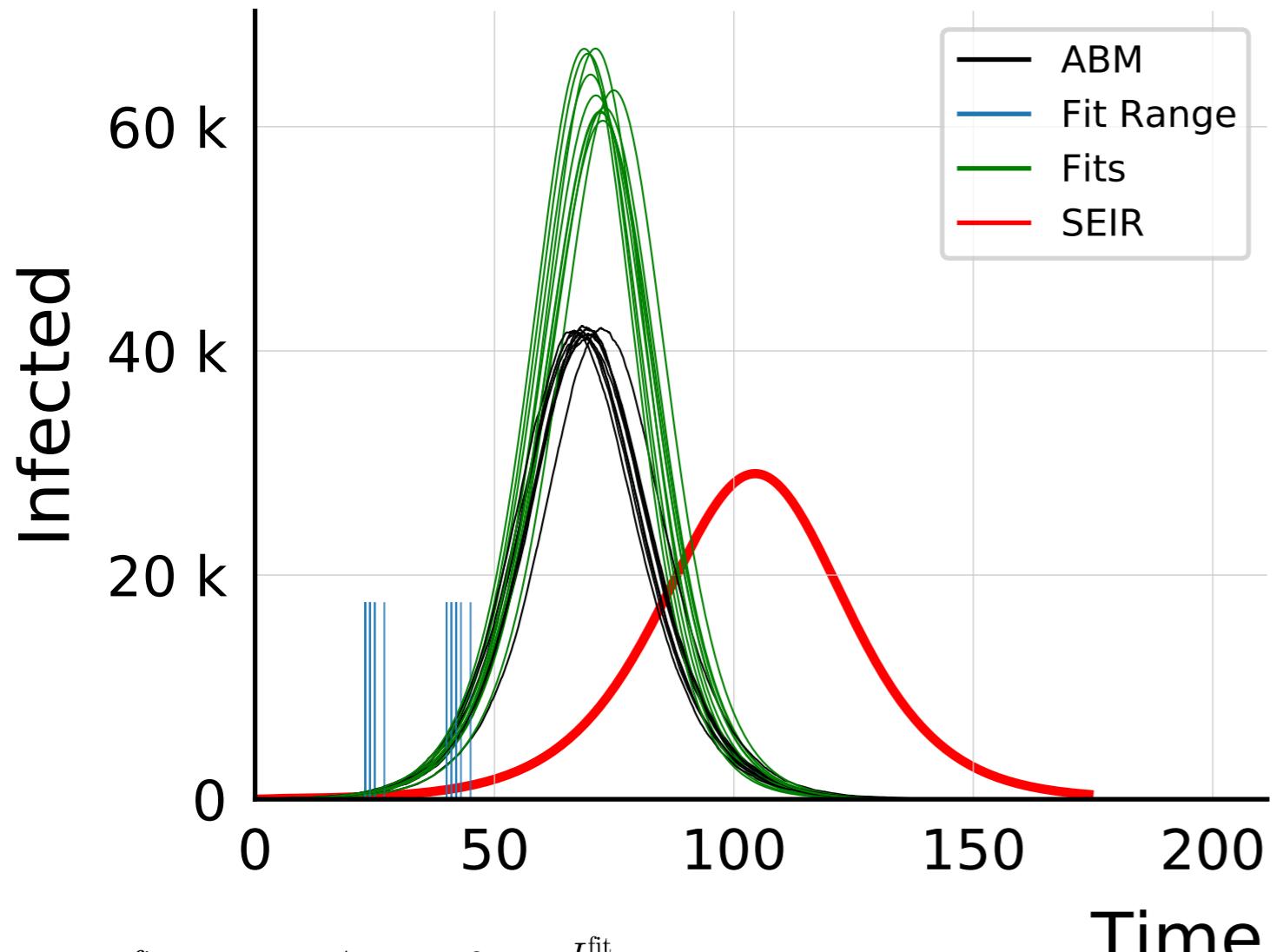
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



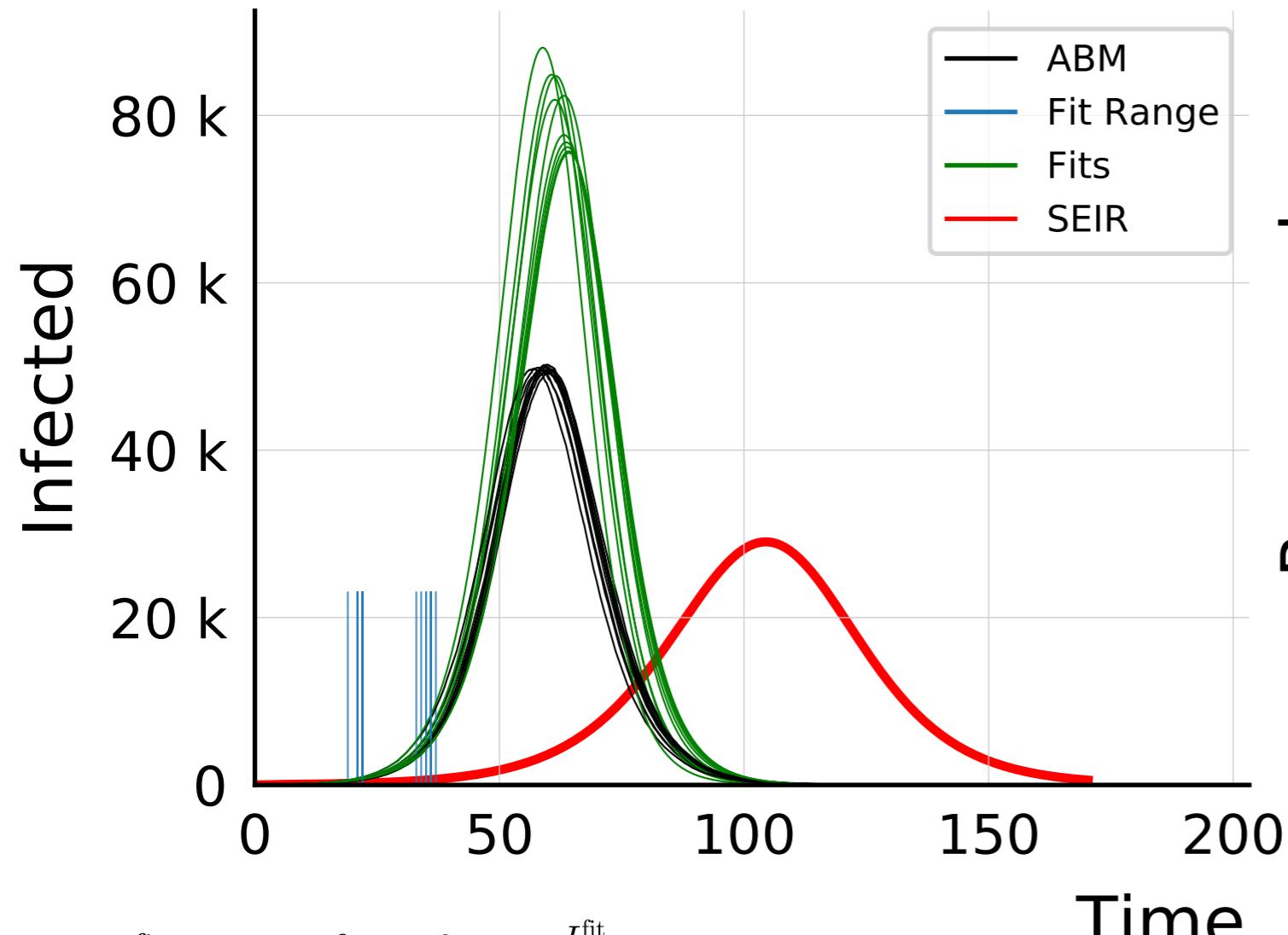
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

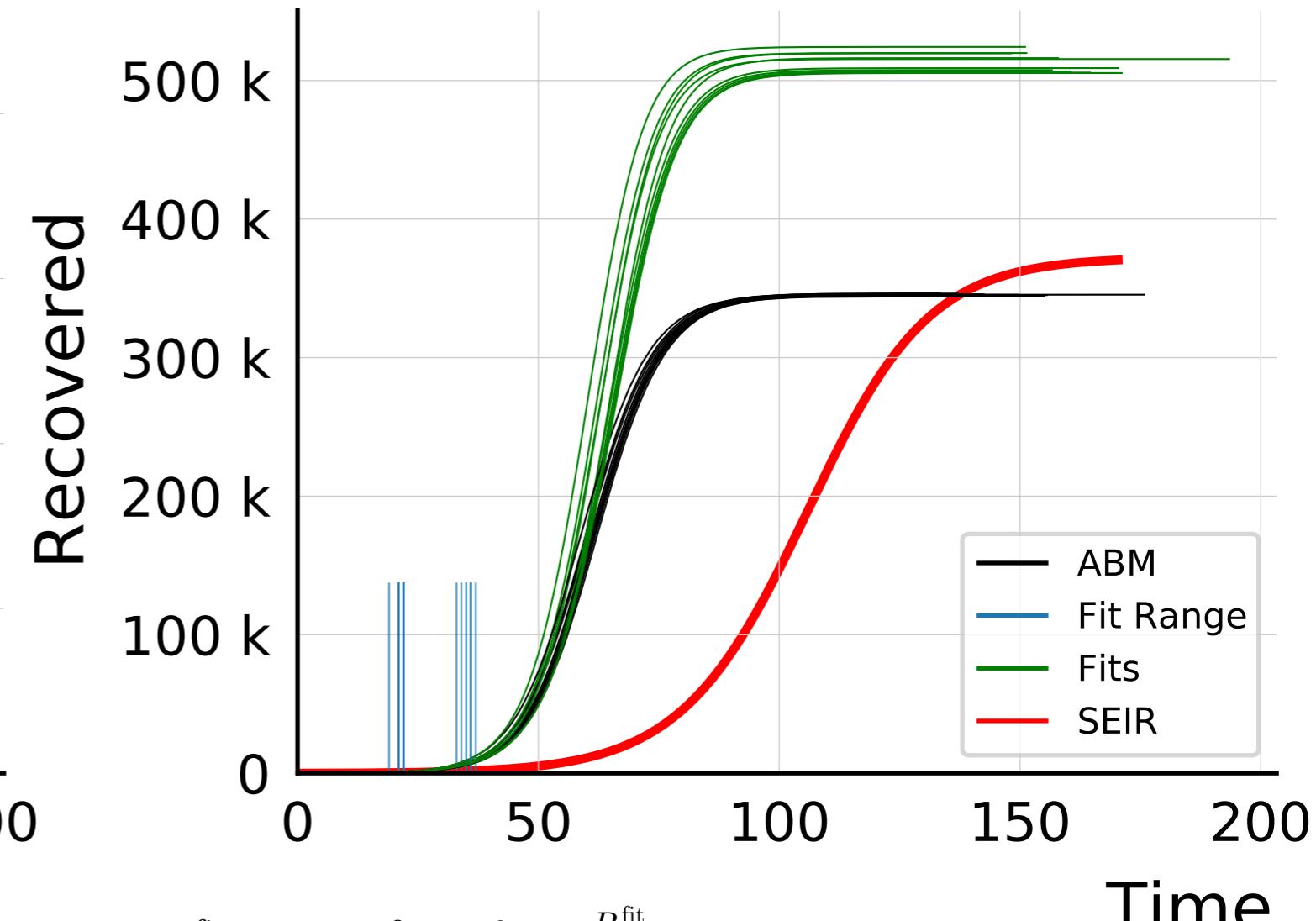


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 79_{-3}^{+6} \cdot 10^3$$

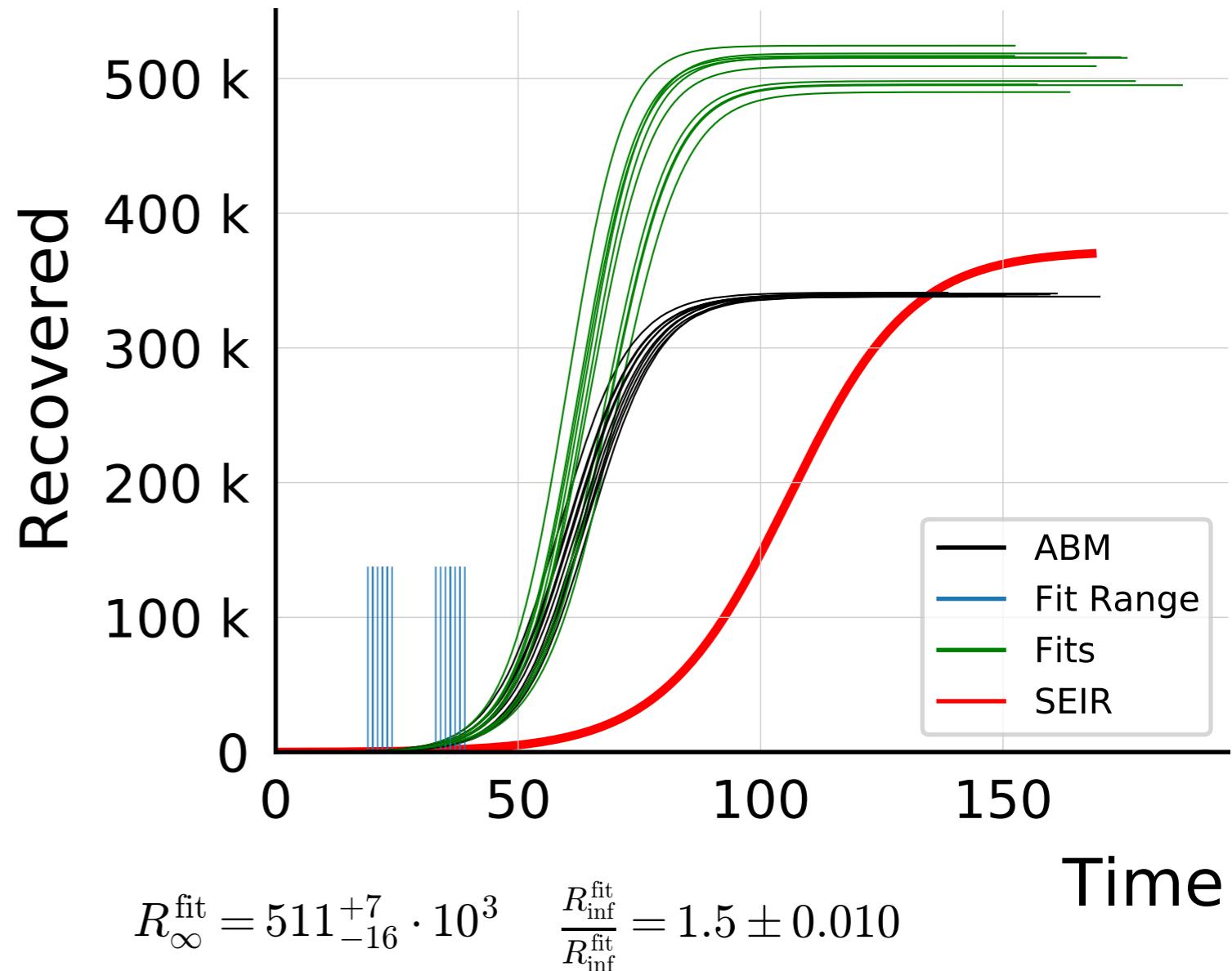
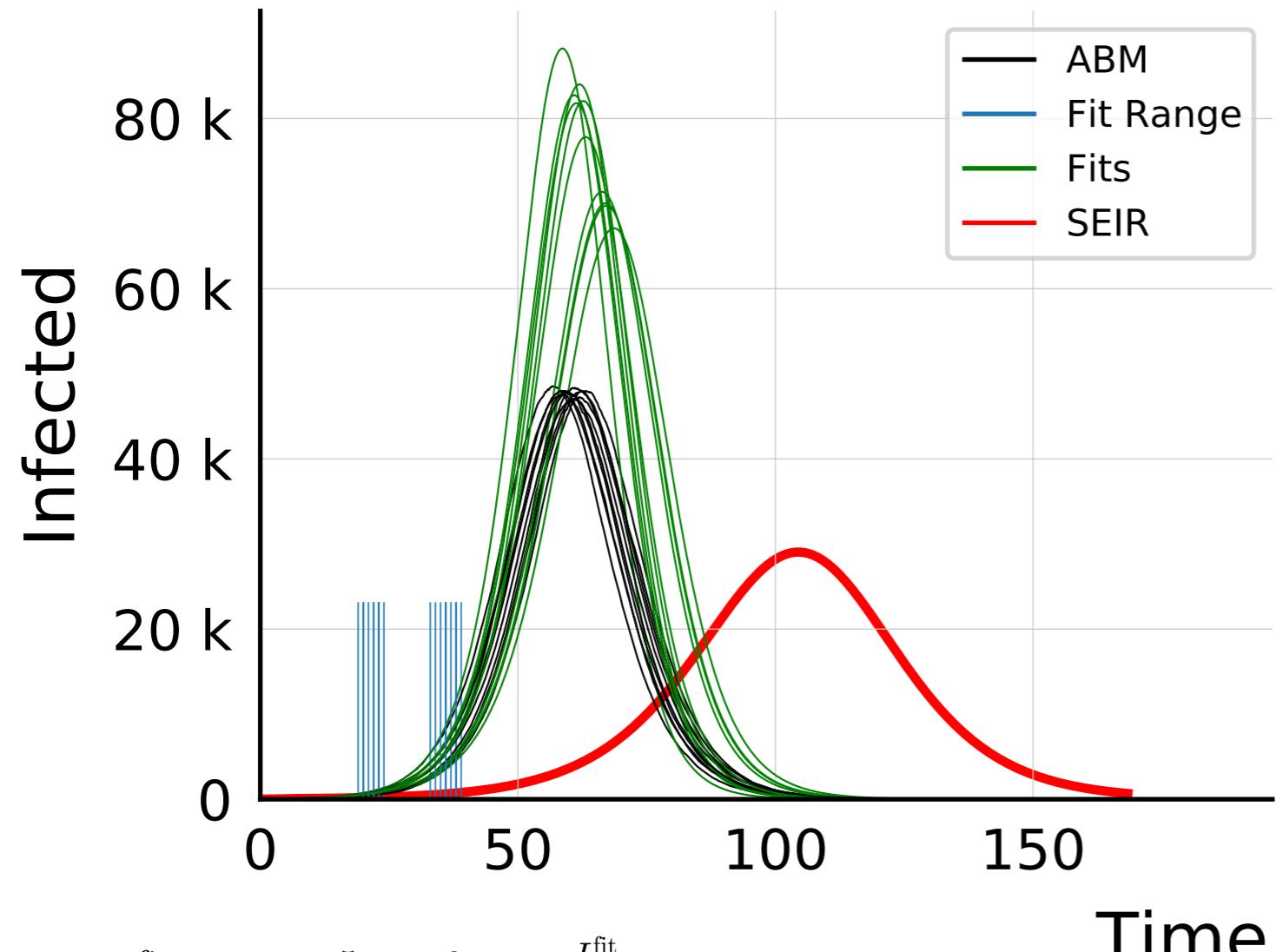
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.62 \pm 0.028$$



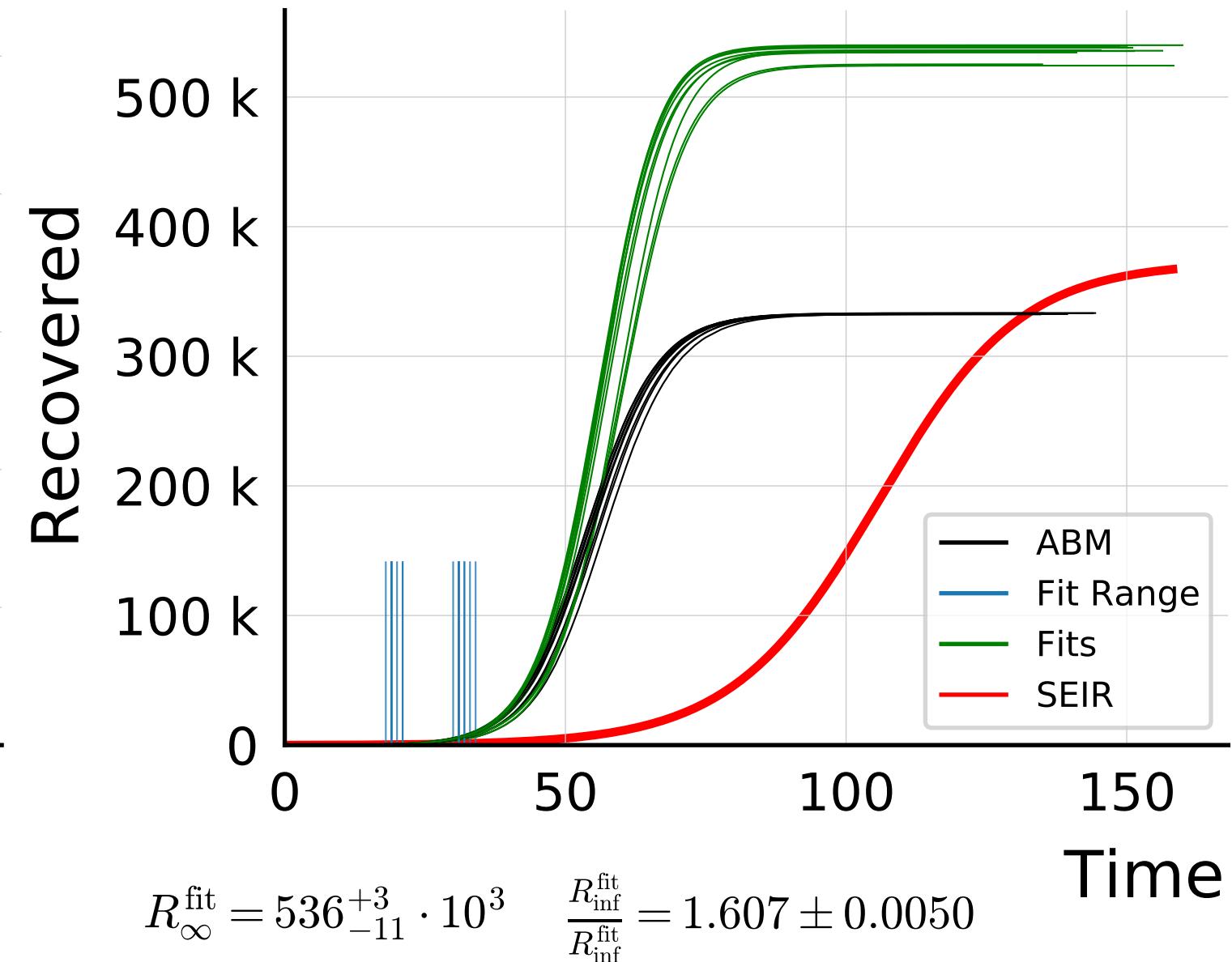
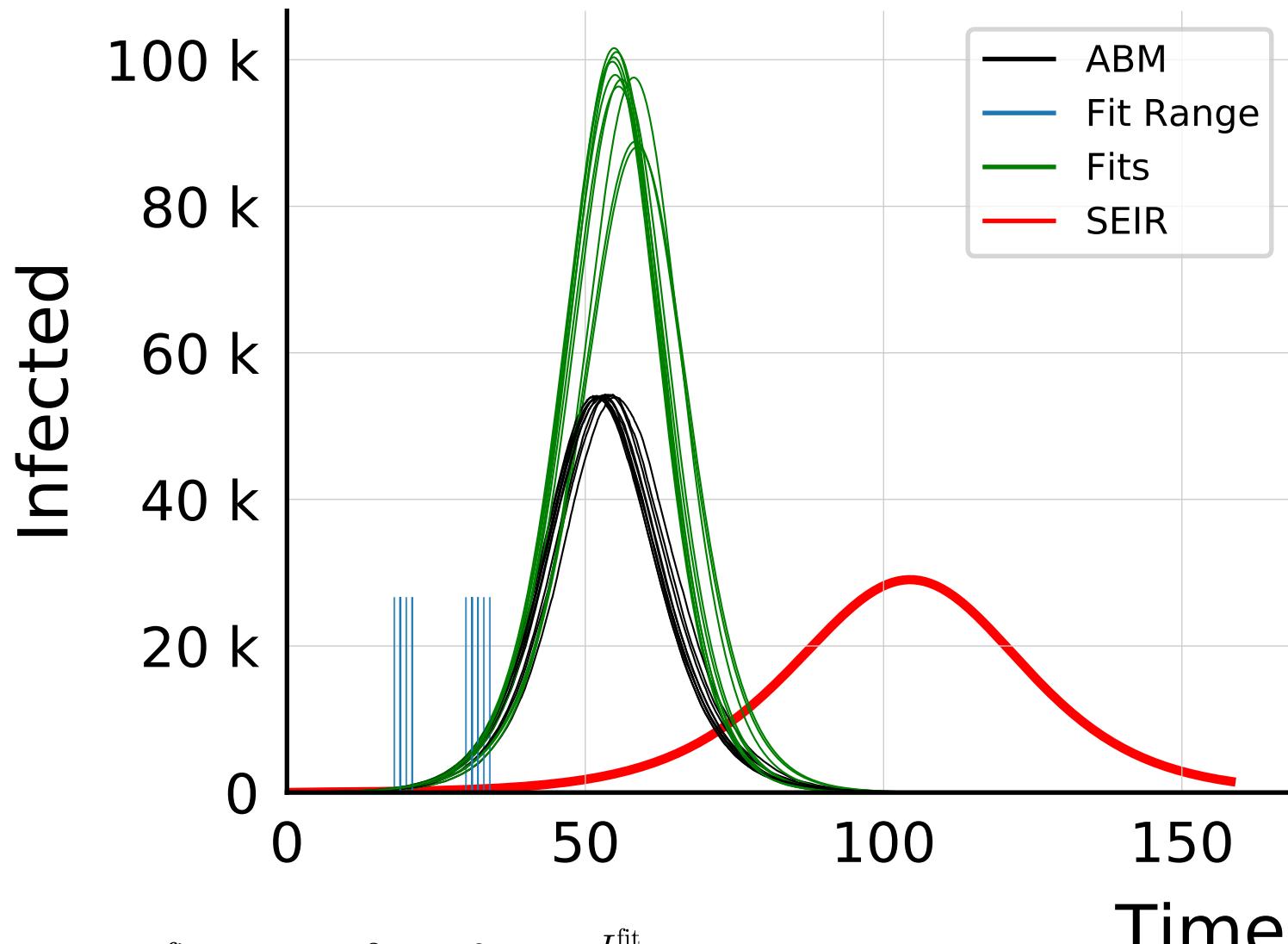
$$R_{\infty}^{\text{fit}} = 511_{-5}^{+9} \cdot 10^3$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}^{\text{ABM}}} = 1.485 \pm 0.0056$$

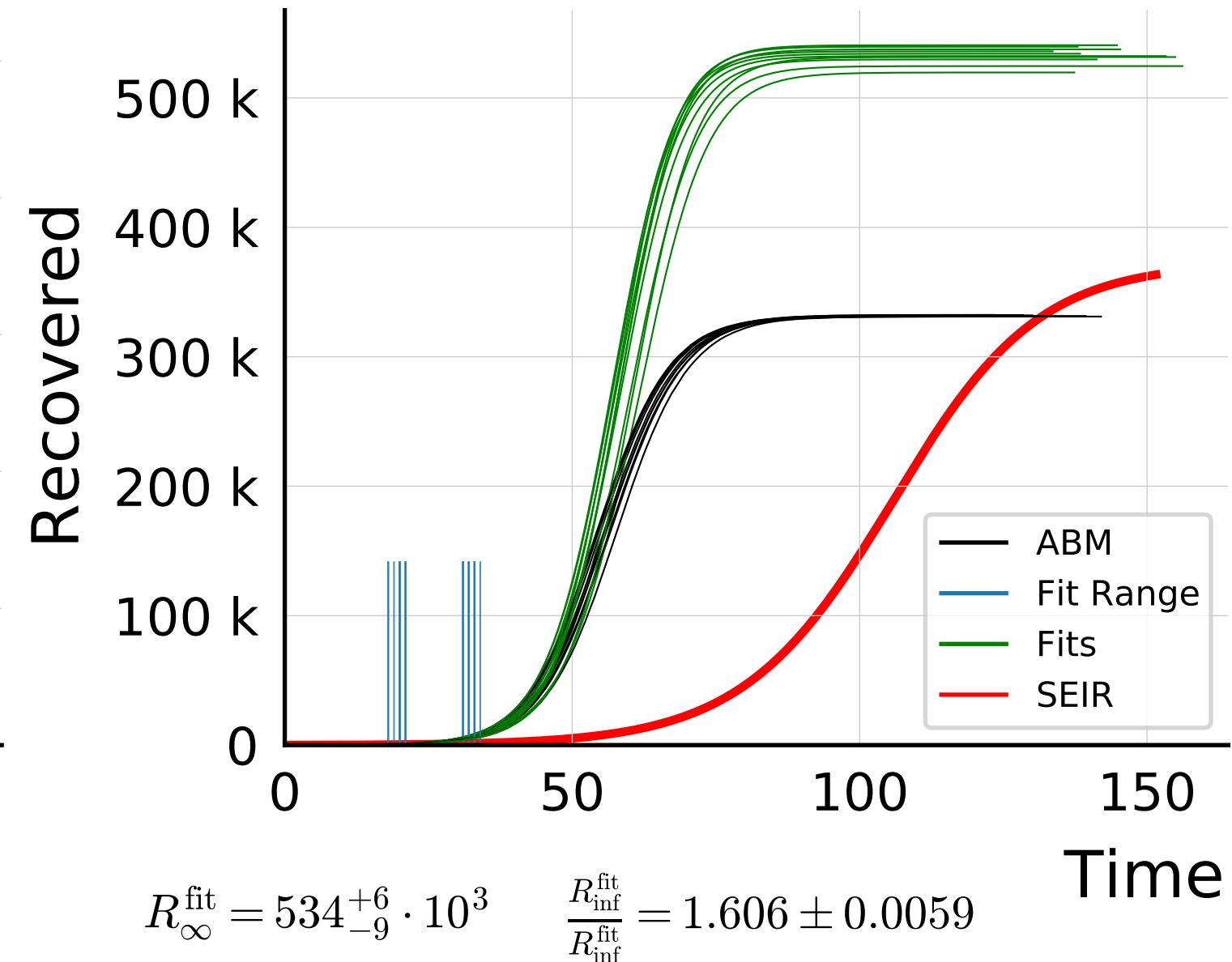
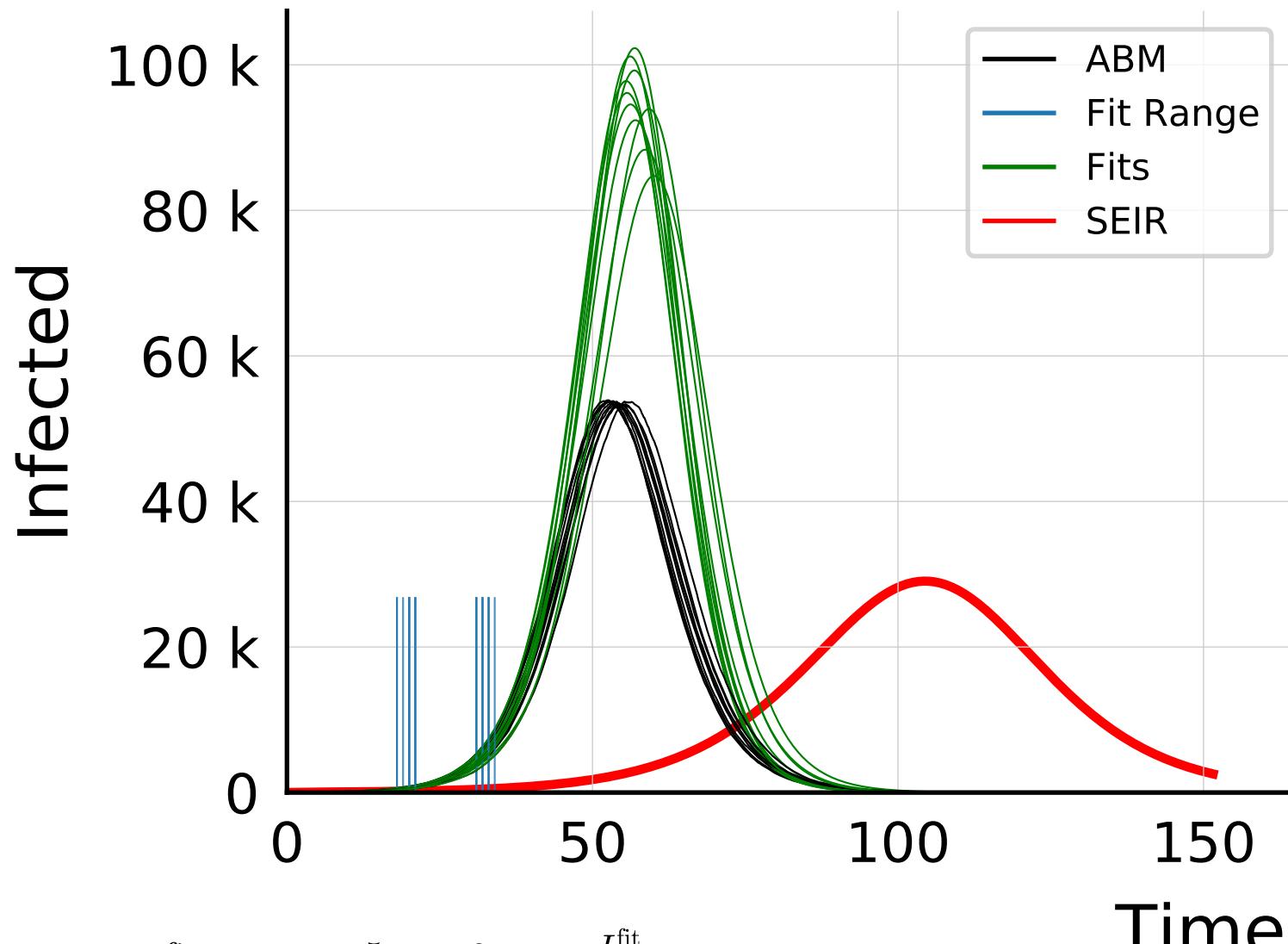
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



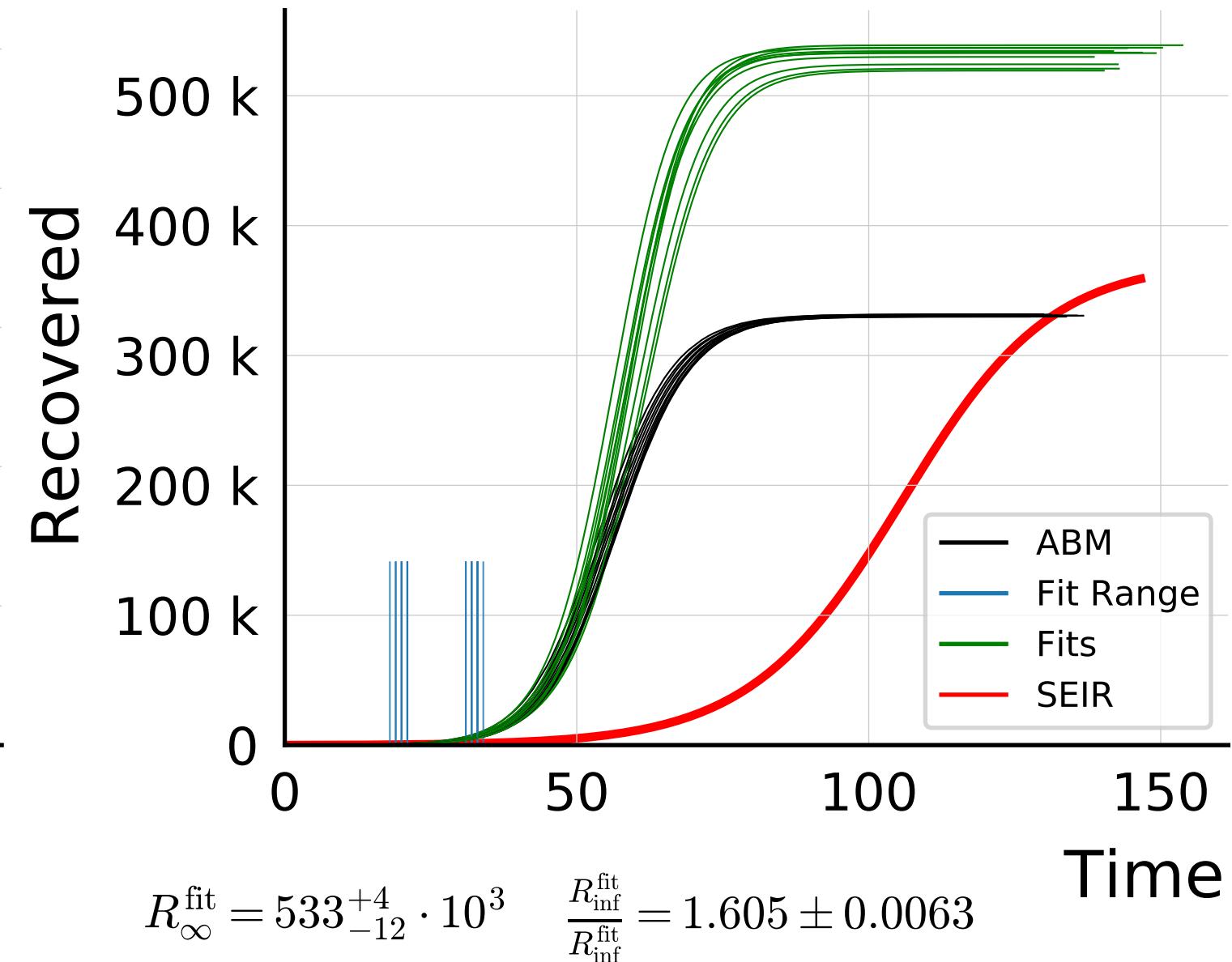
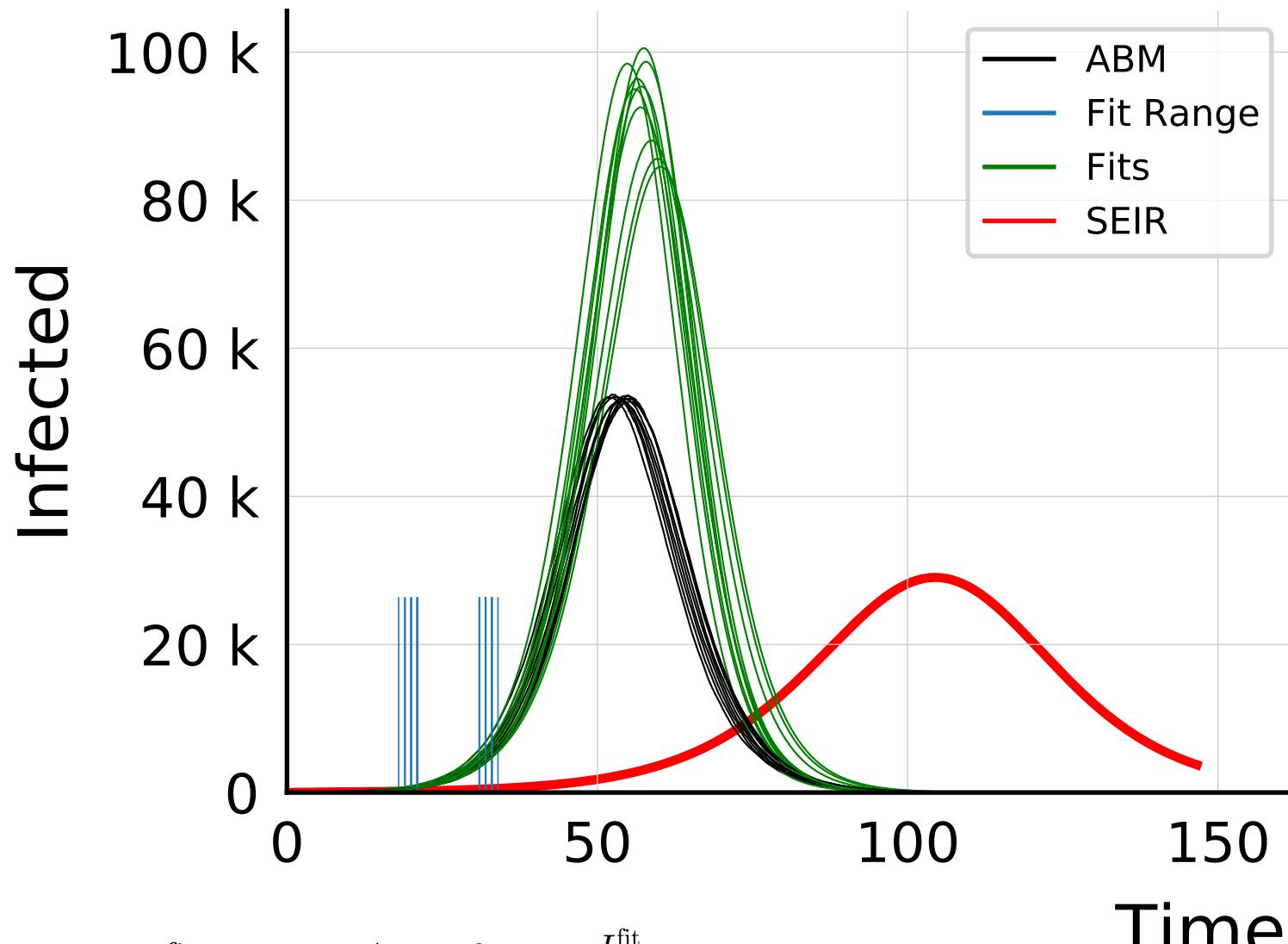
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



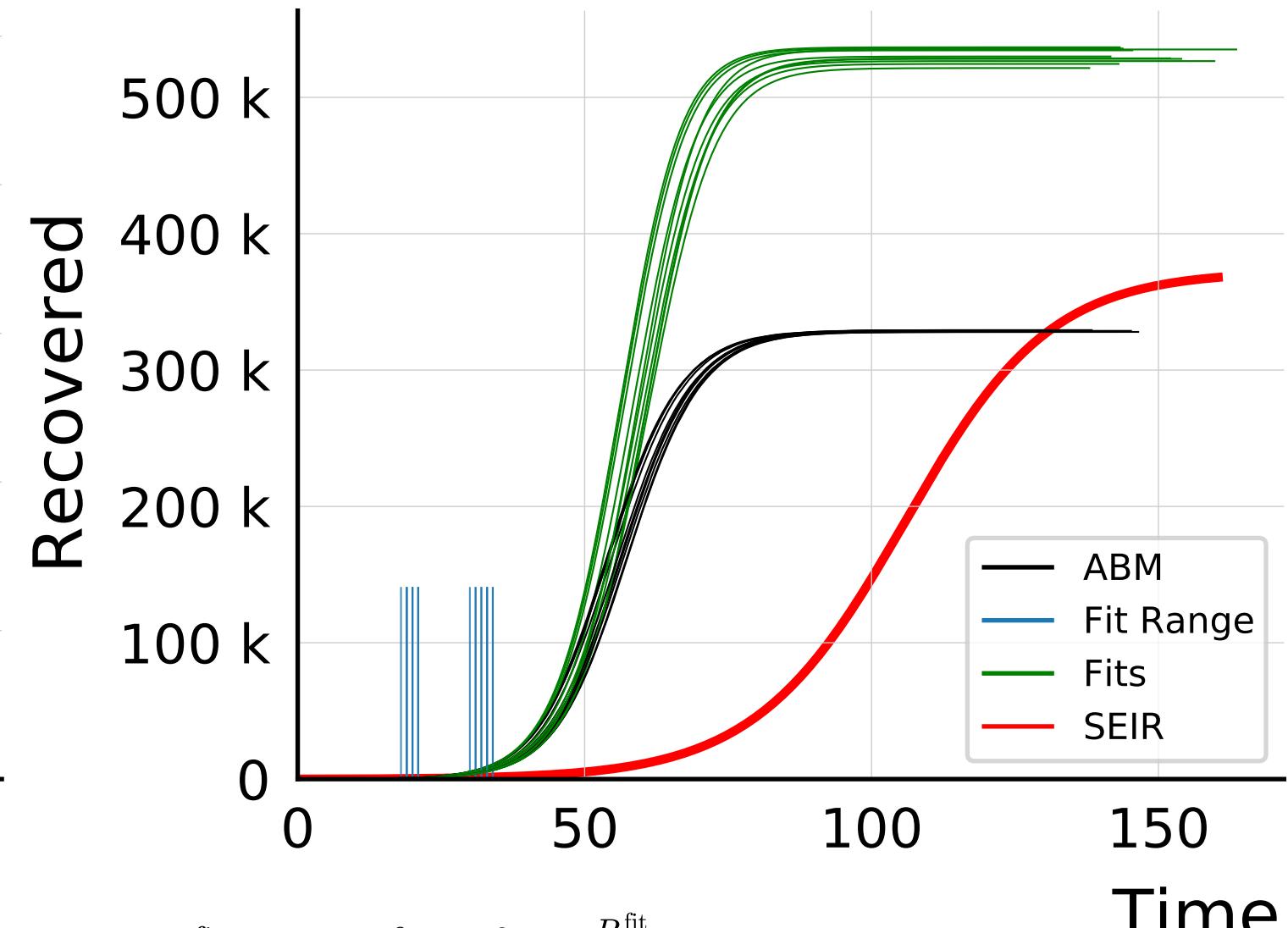
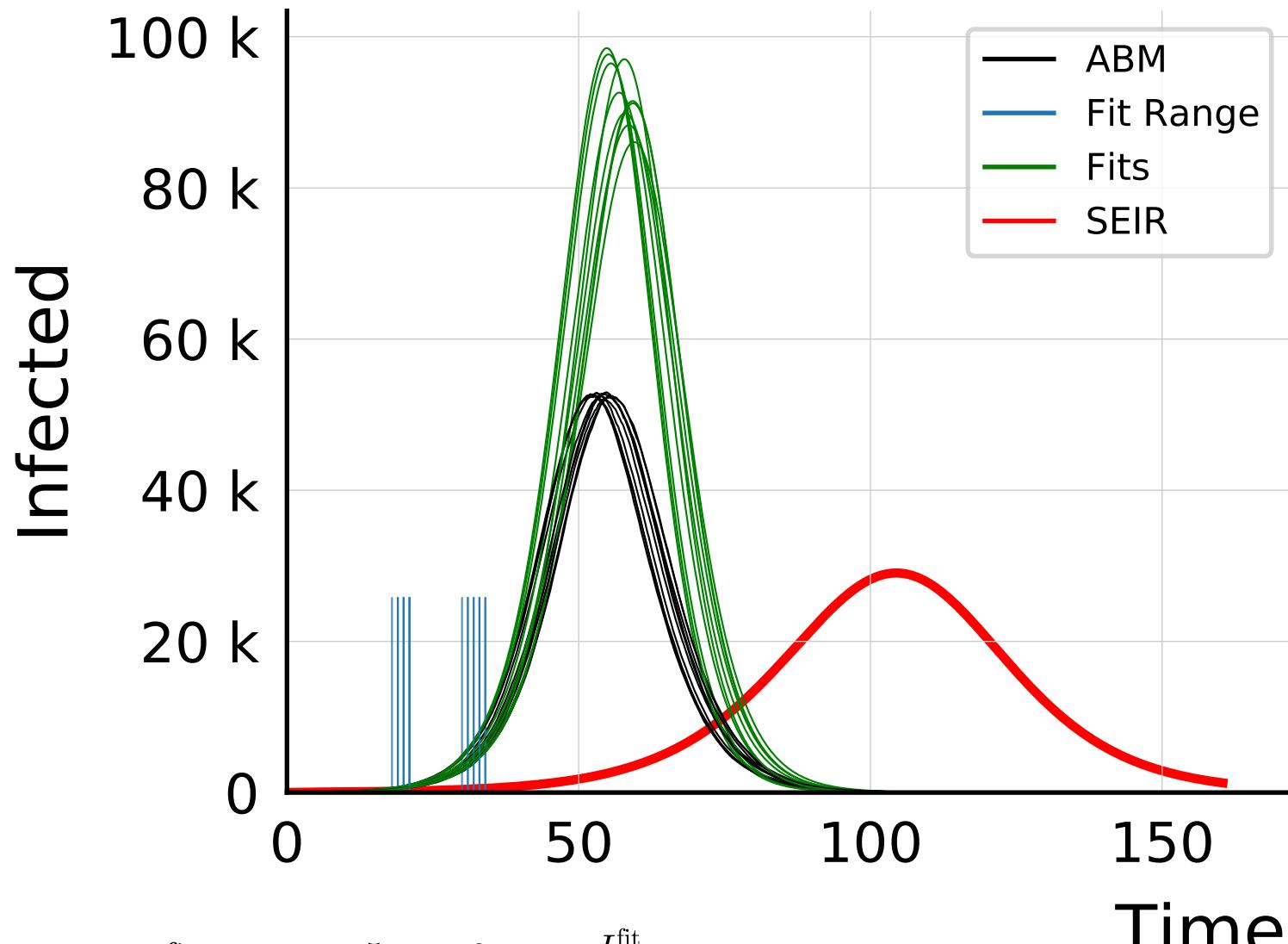
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



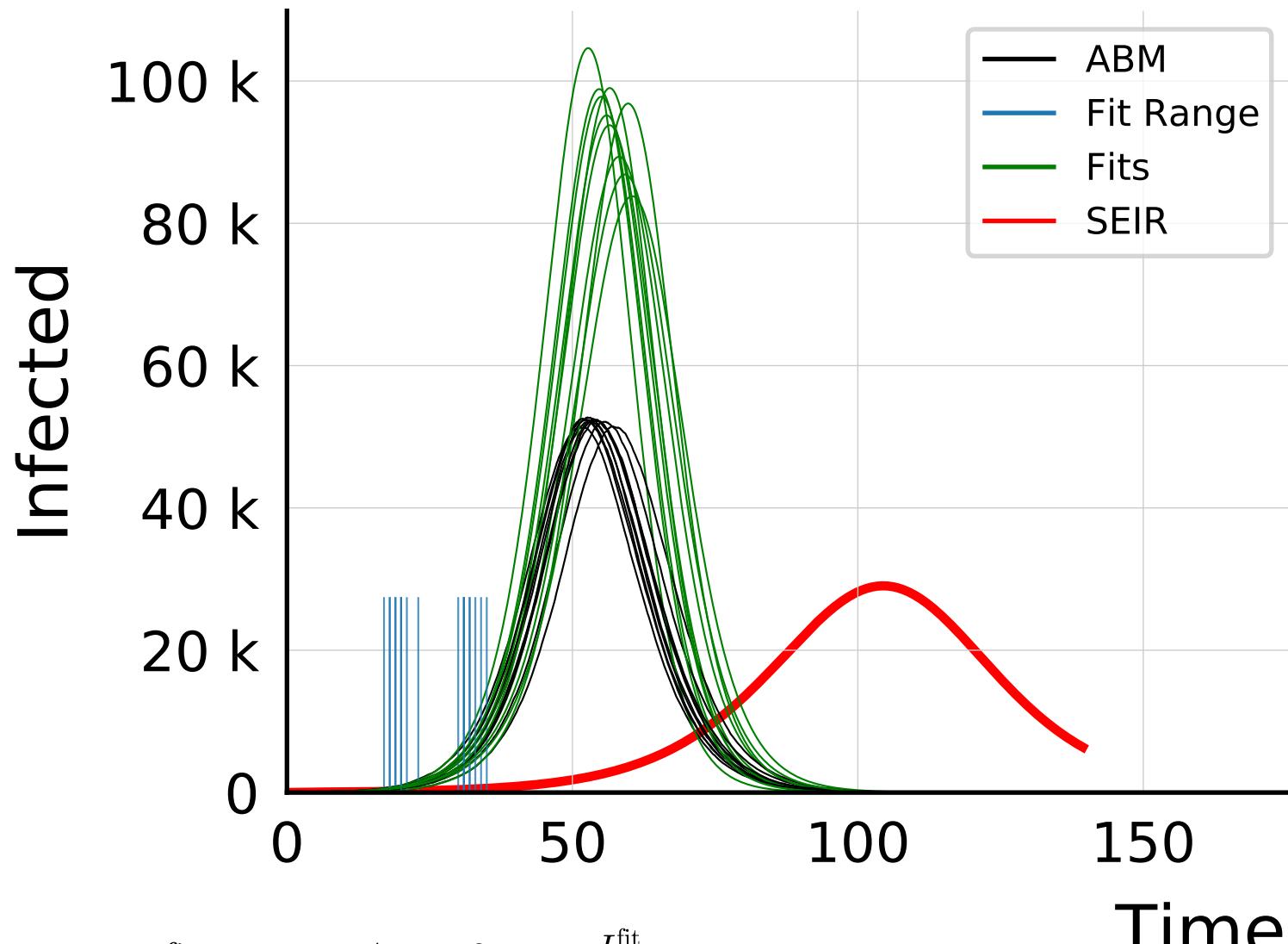
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

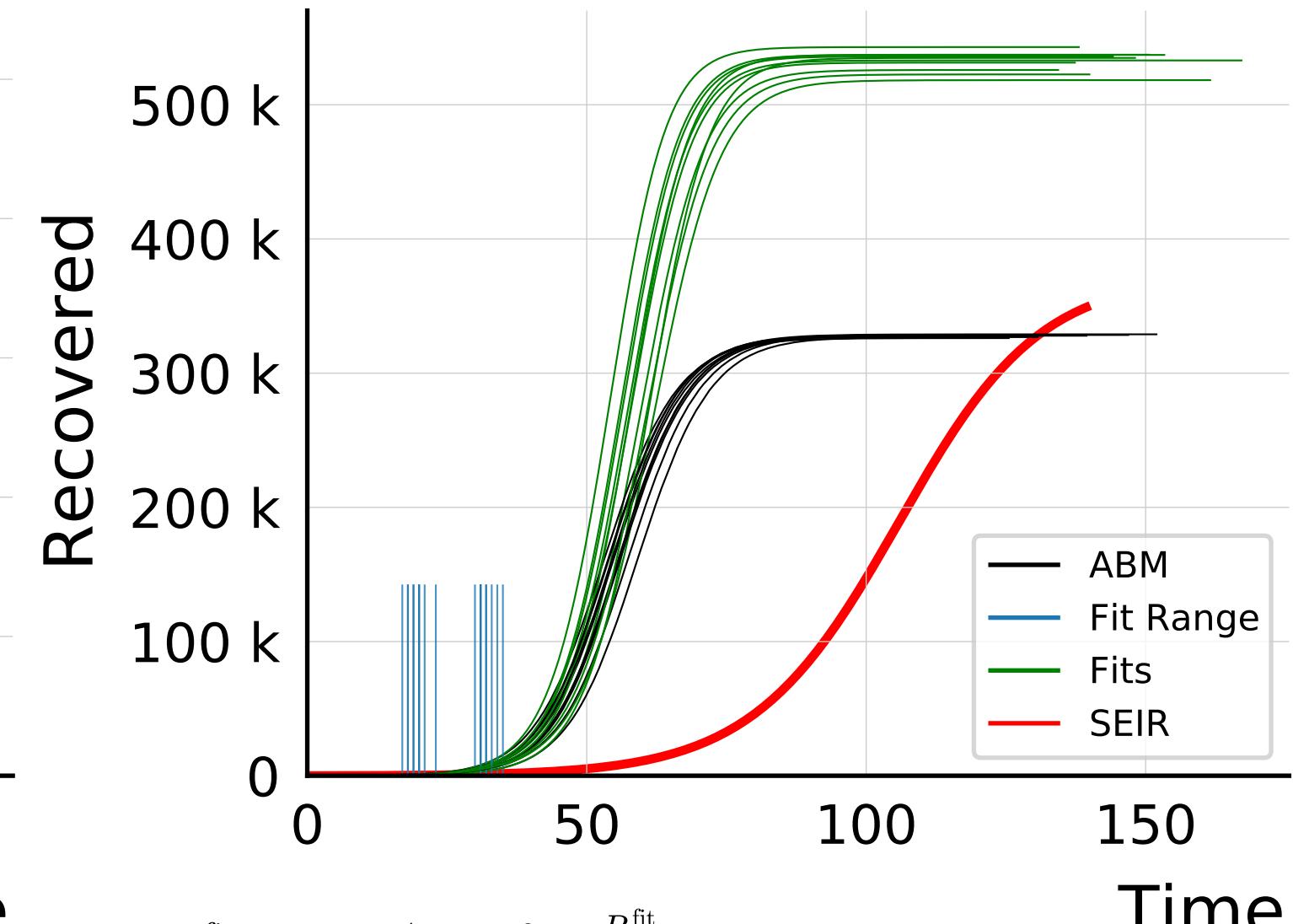


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 95_{-9}^{+4} \cdot 10^3$$

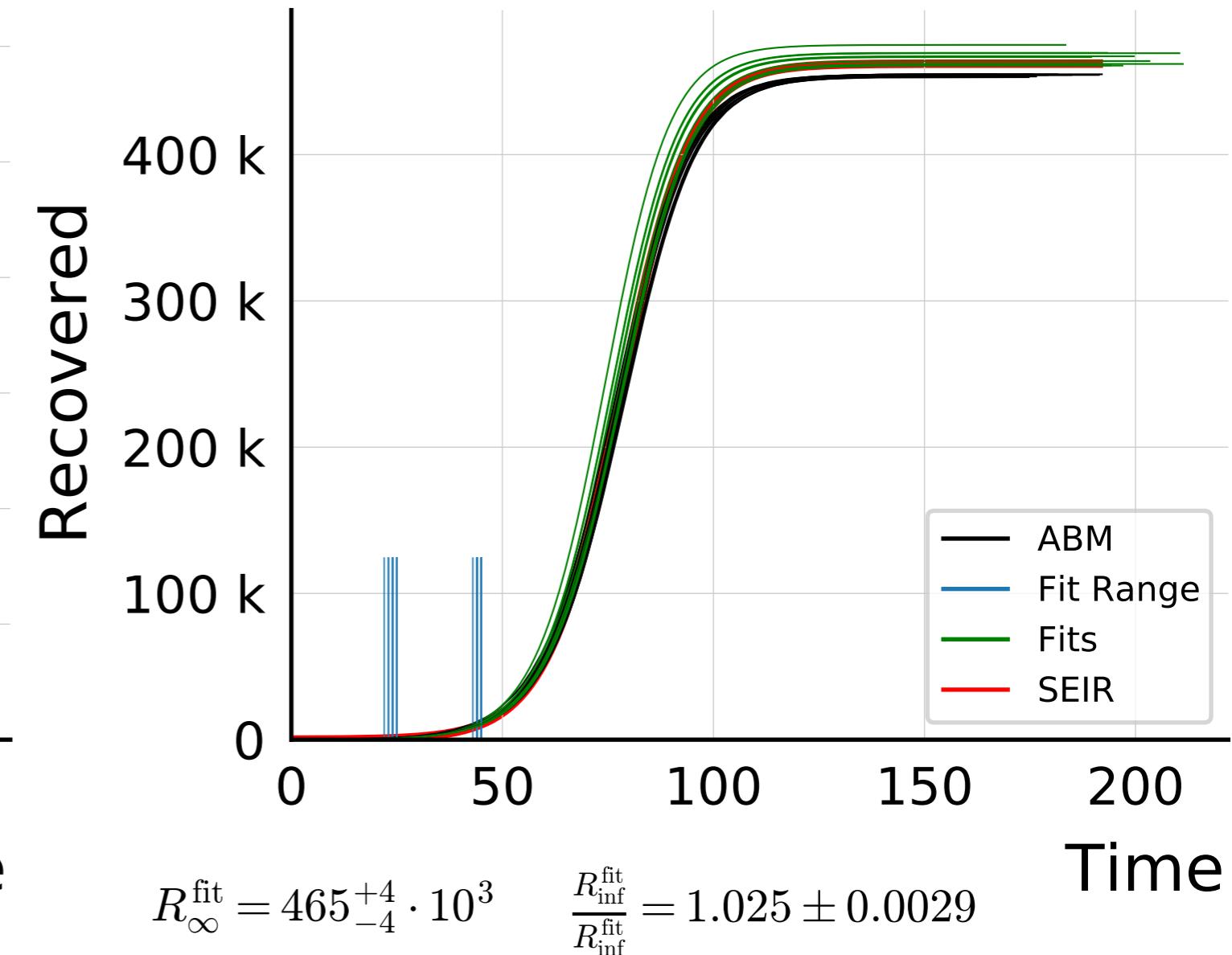
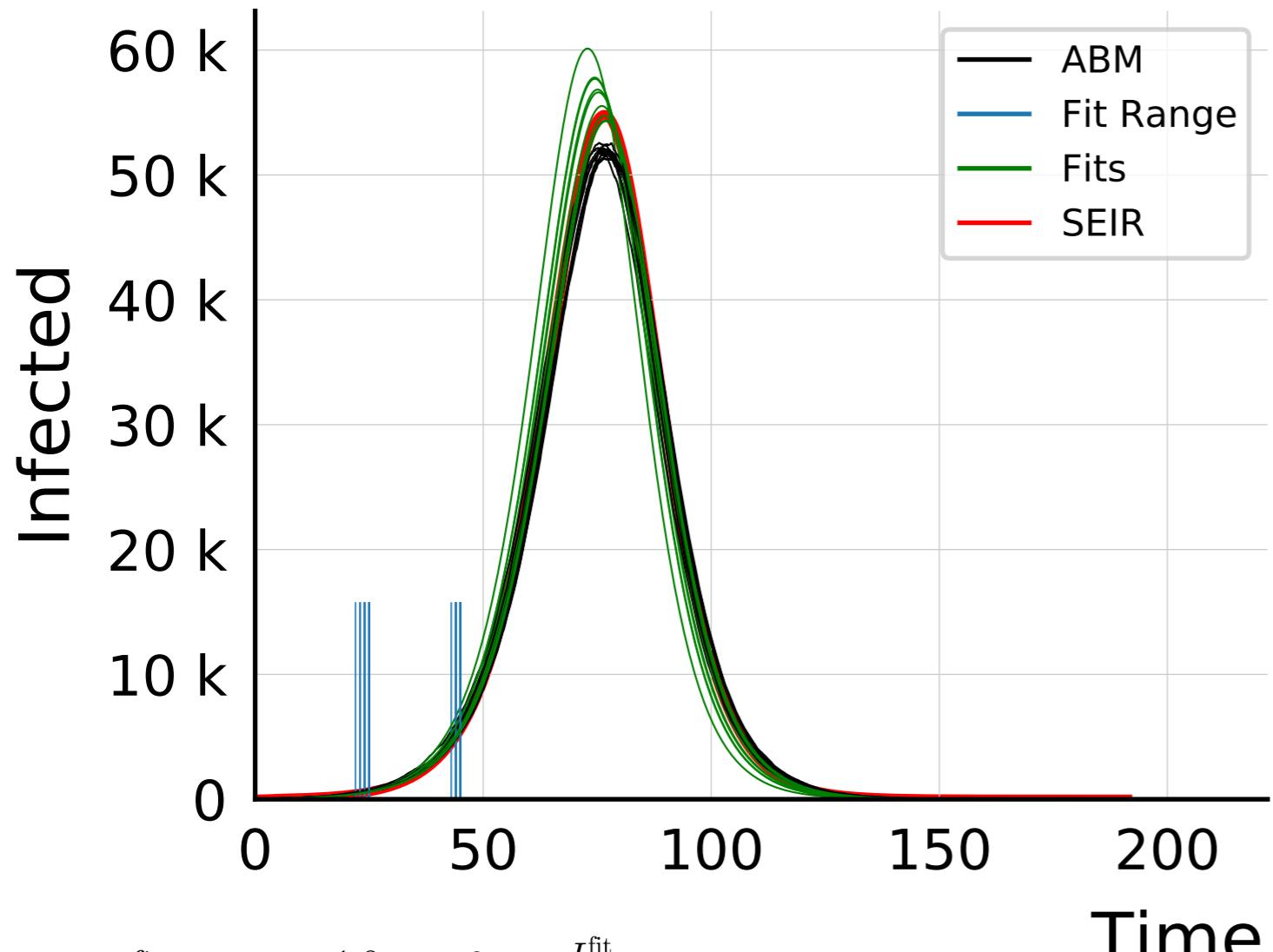
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.81 \pm 0.038$$



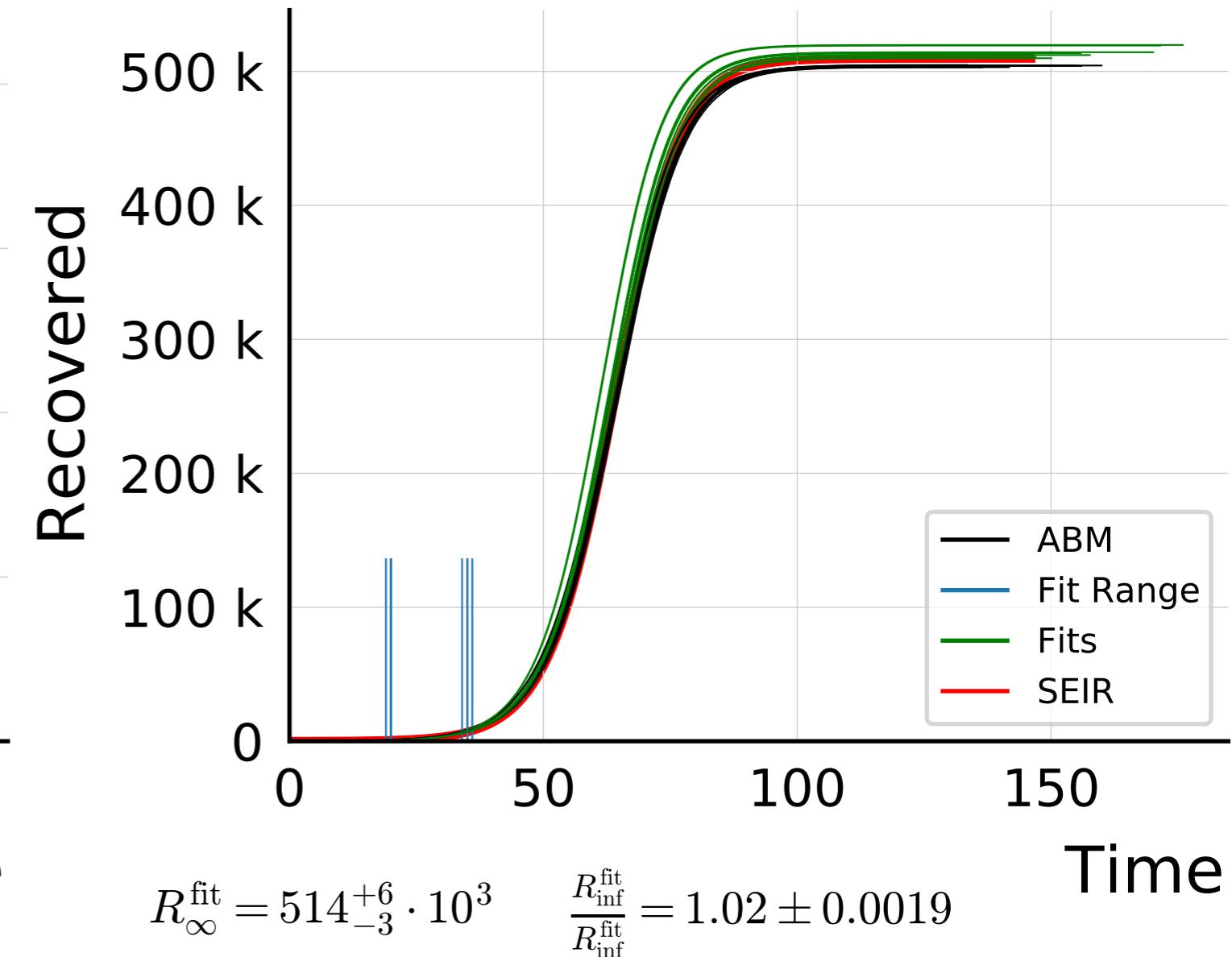
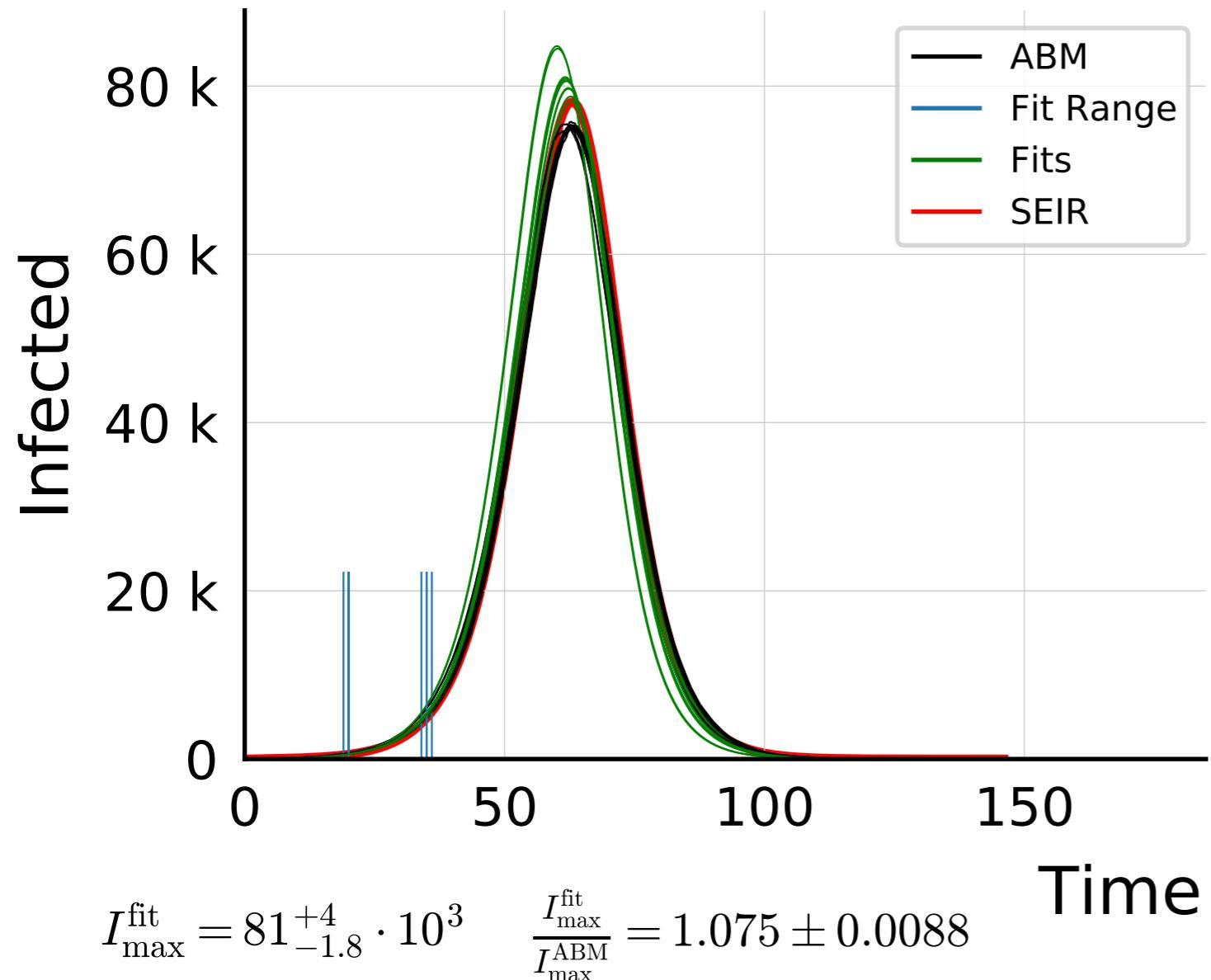
$$R_{\infty}^{\text{fit}} = 533_{-11}^{+4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.623 \pm 0.0076$$

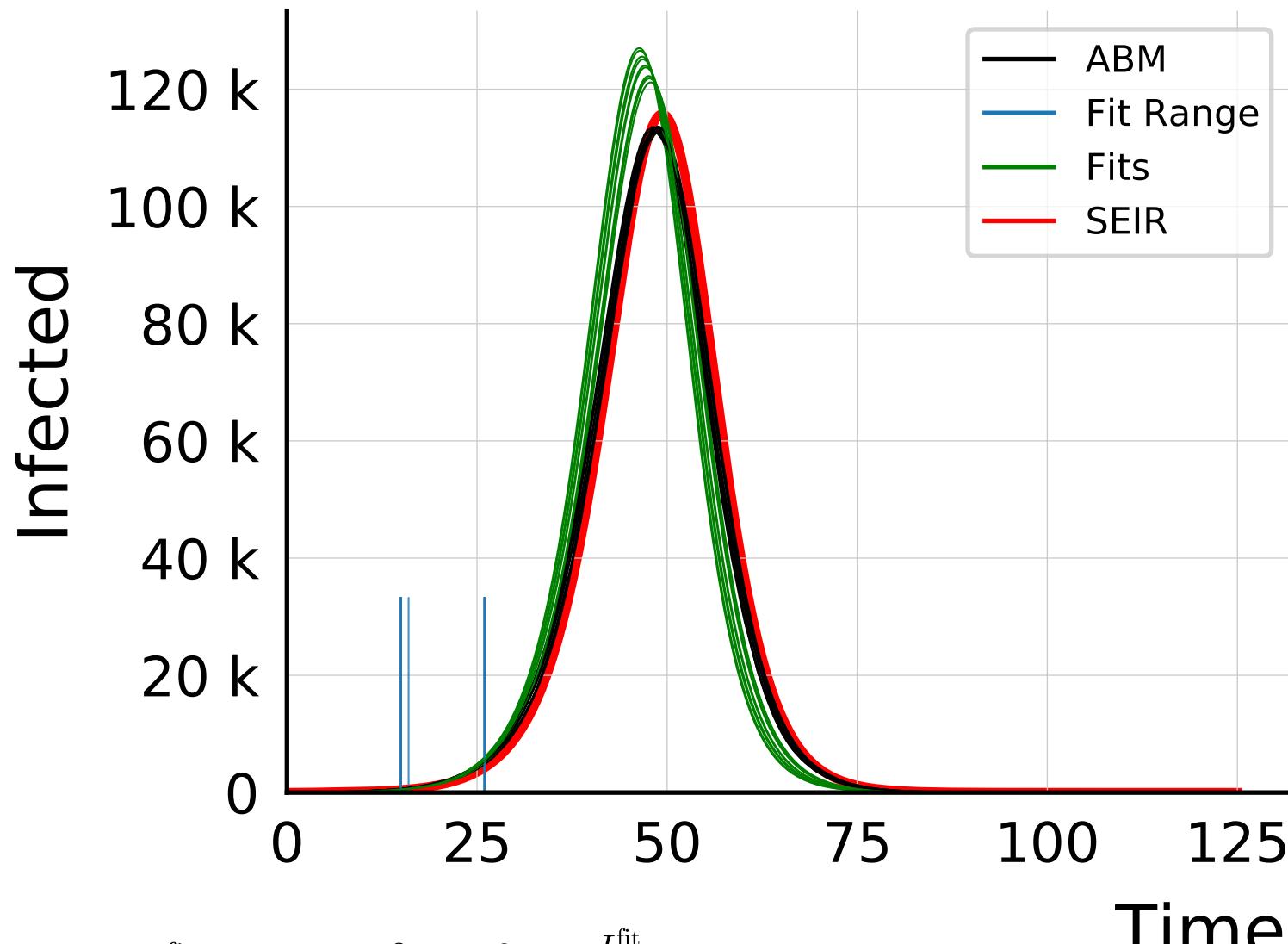
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

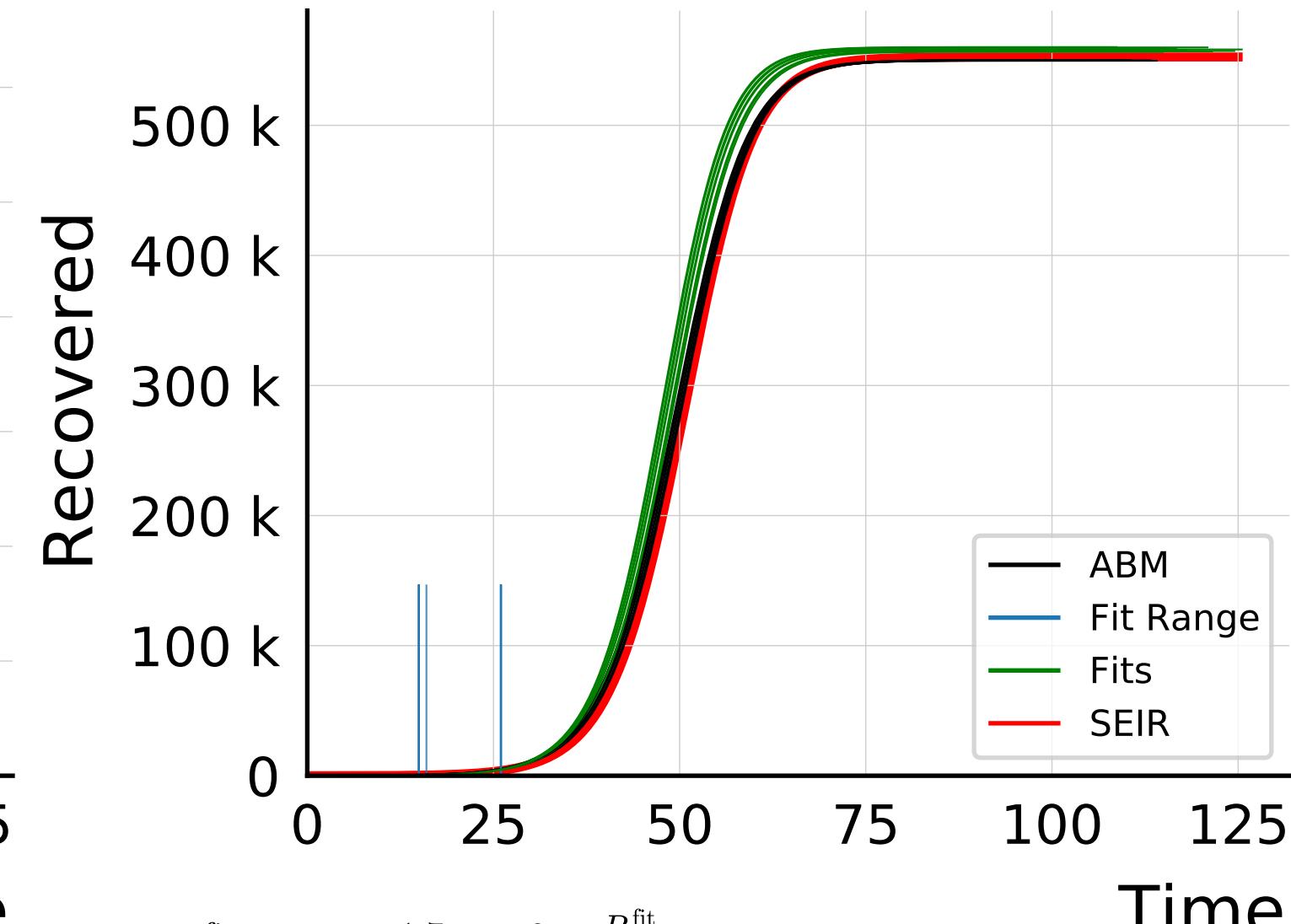


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 124_{-2}^{+3} \cdot 10^3$$

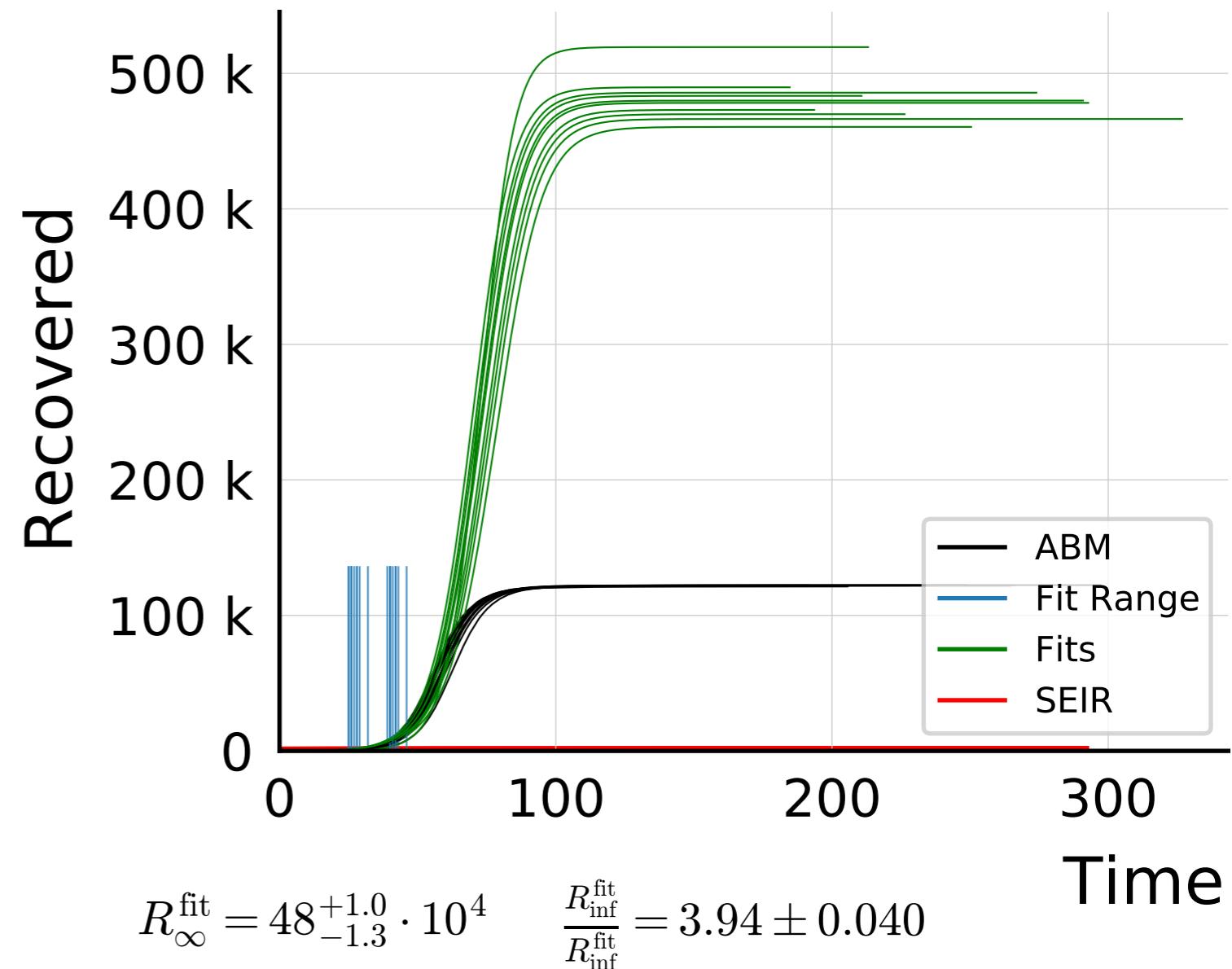
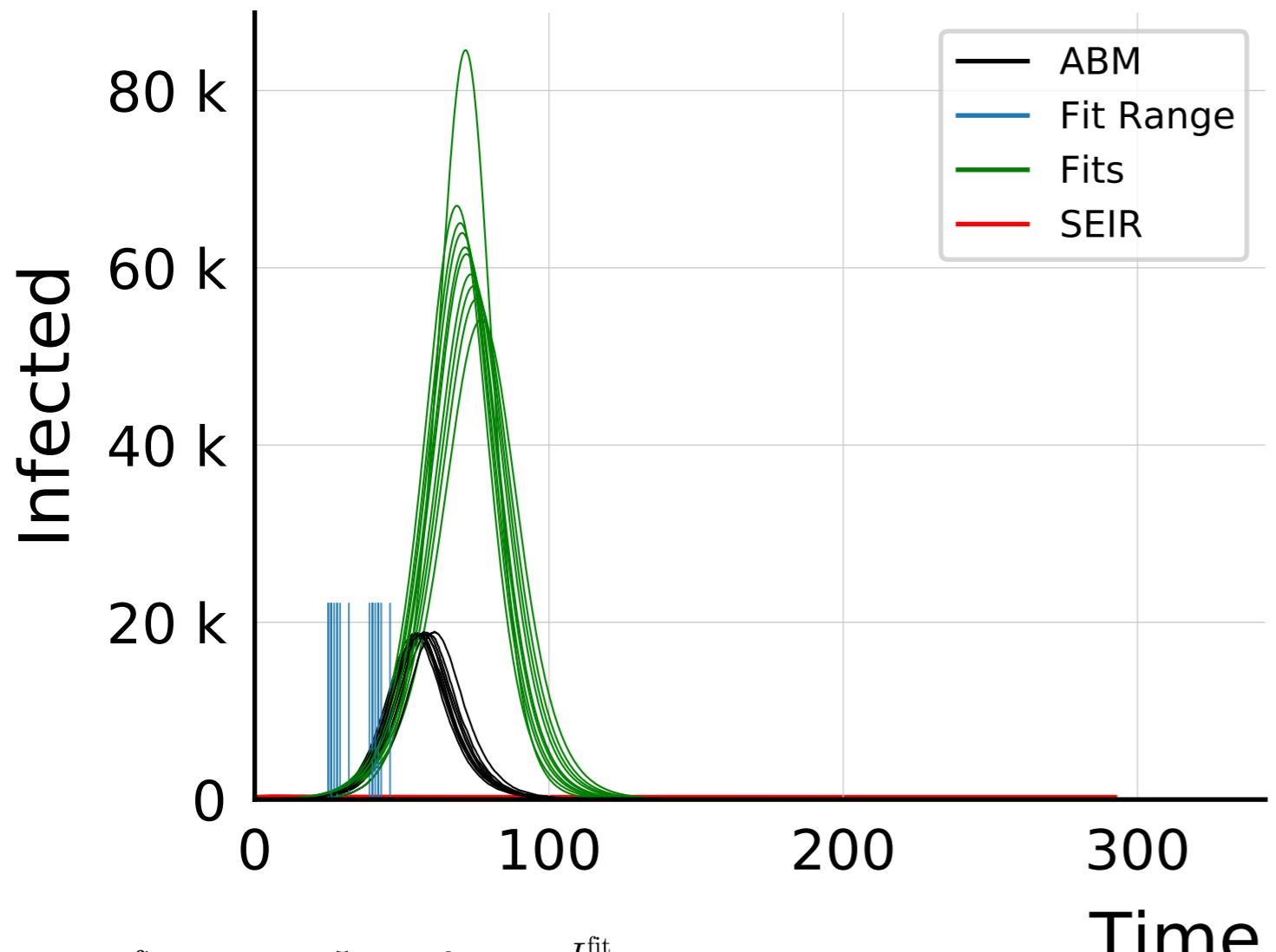
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.095 \pm 0.0057$$



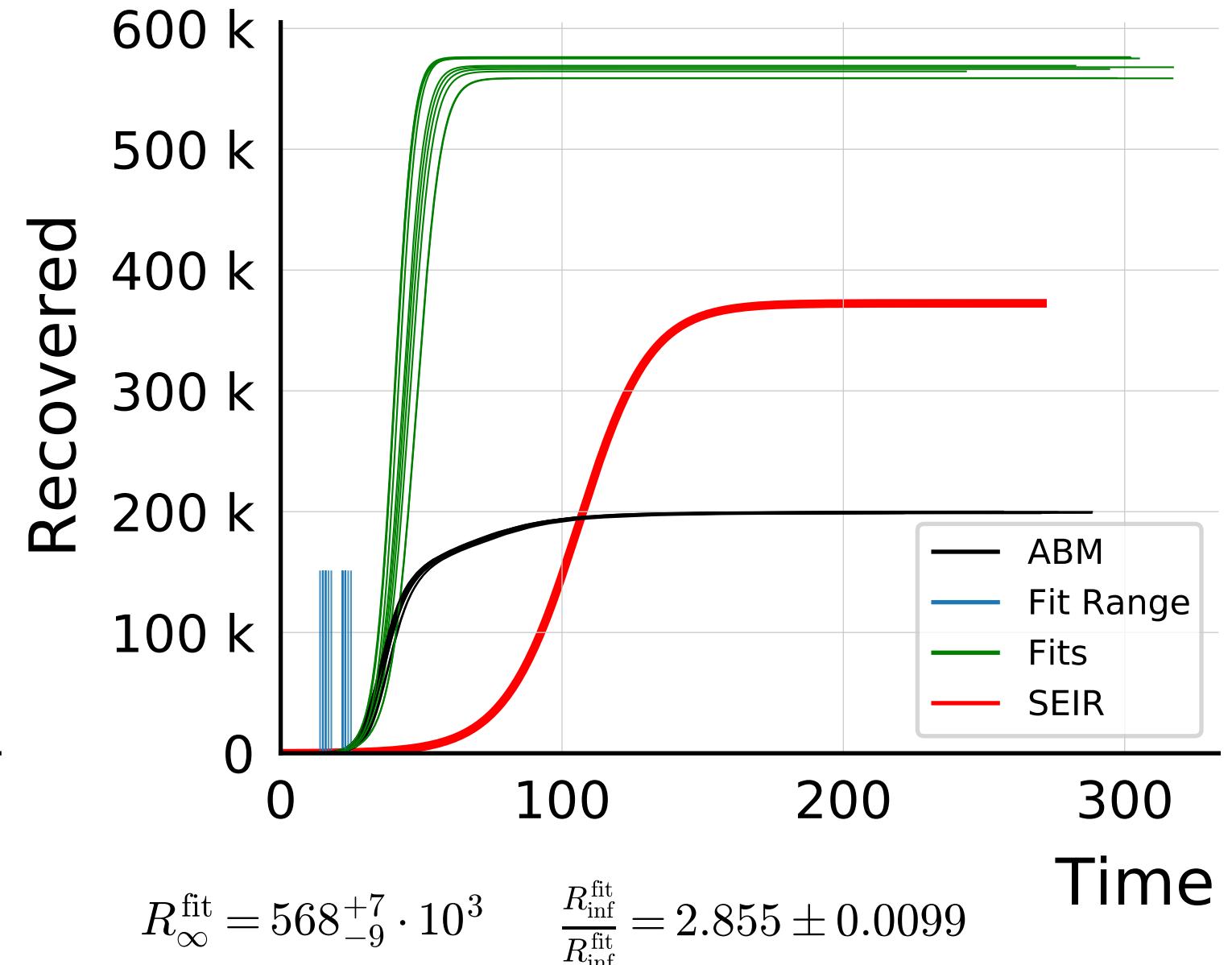
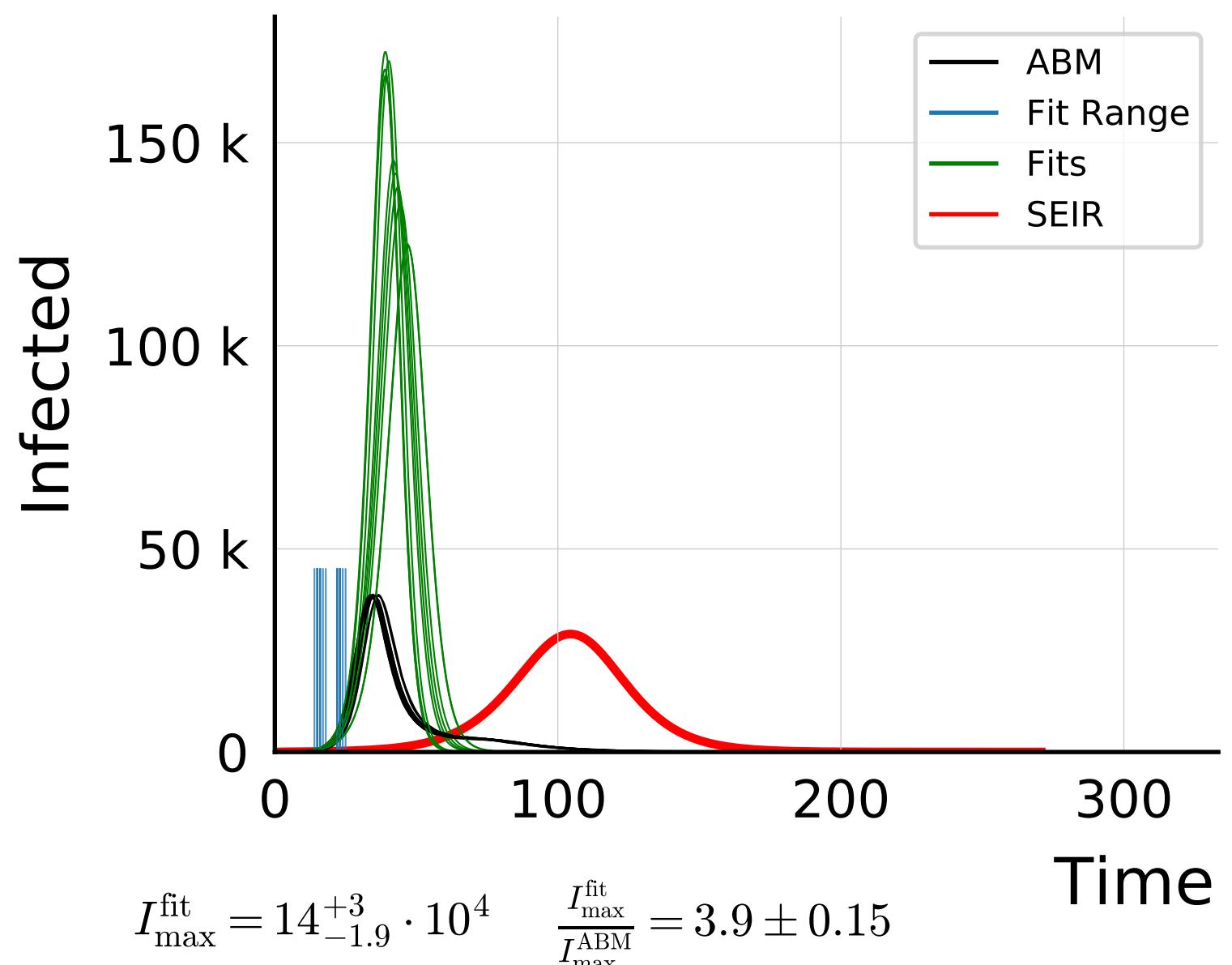
$$R_{\infty}^{\text{fit}} = 558_{-1.4}^{+1.7} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.015 \pm 0.00074$$

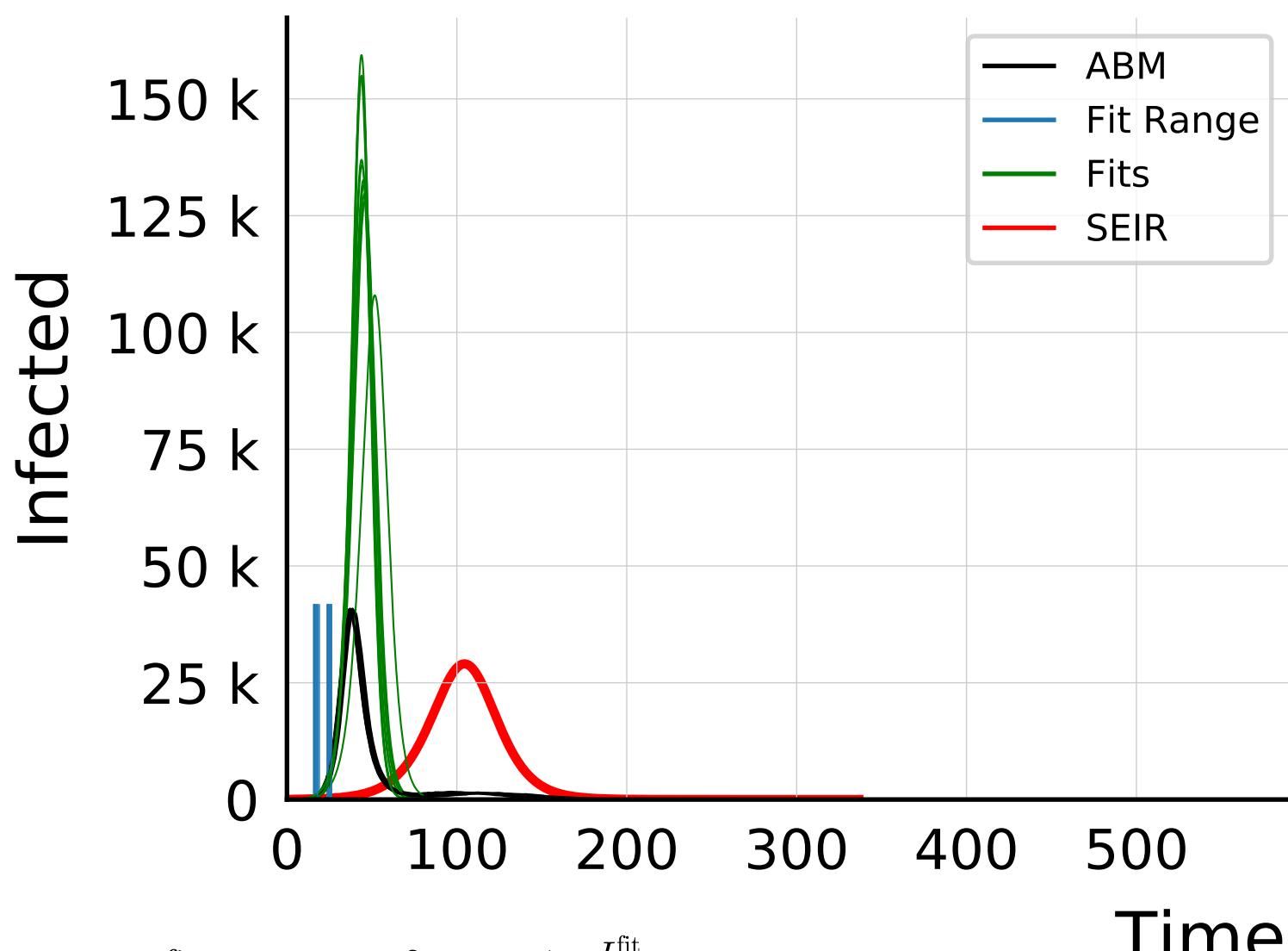
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



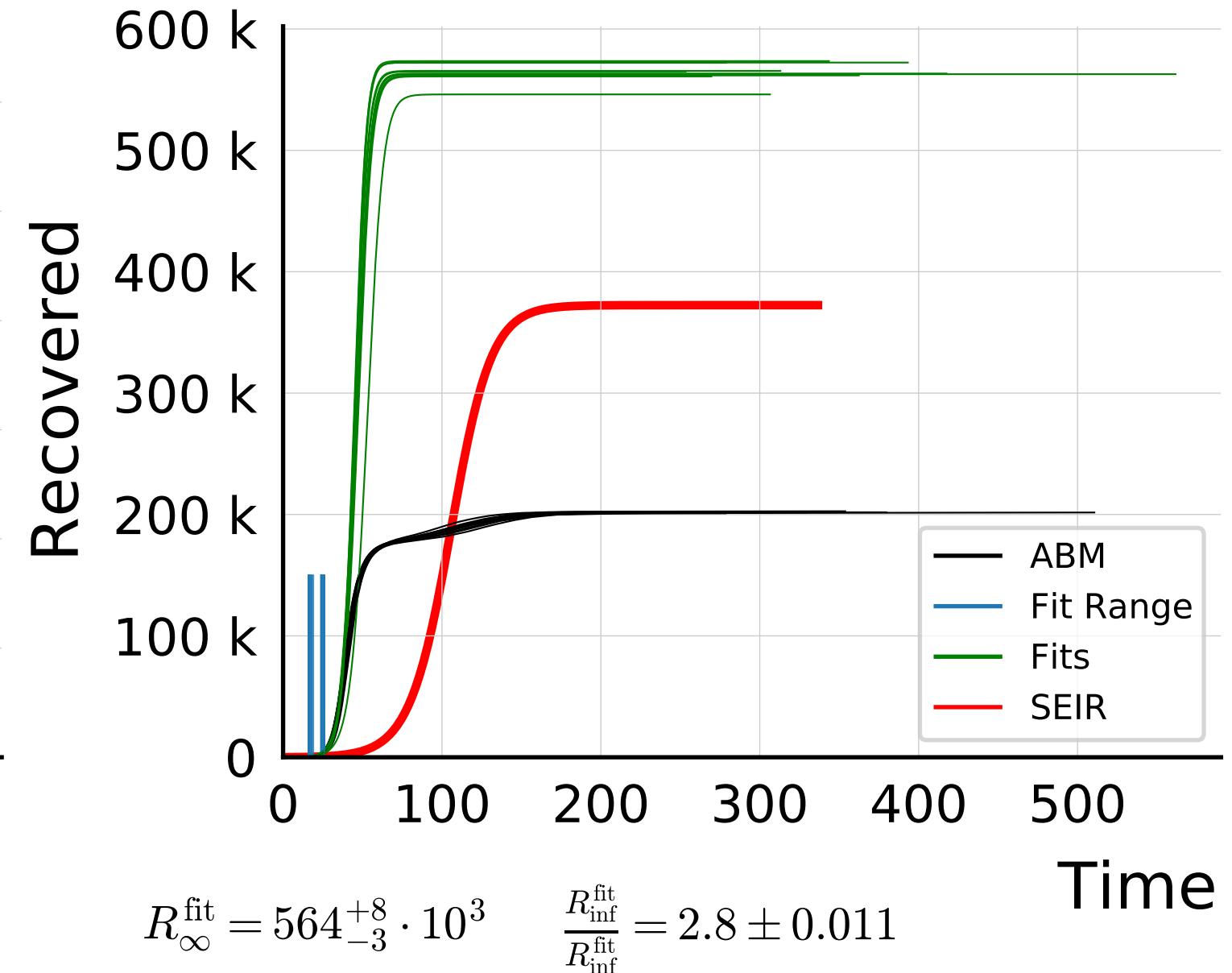
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

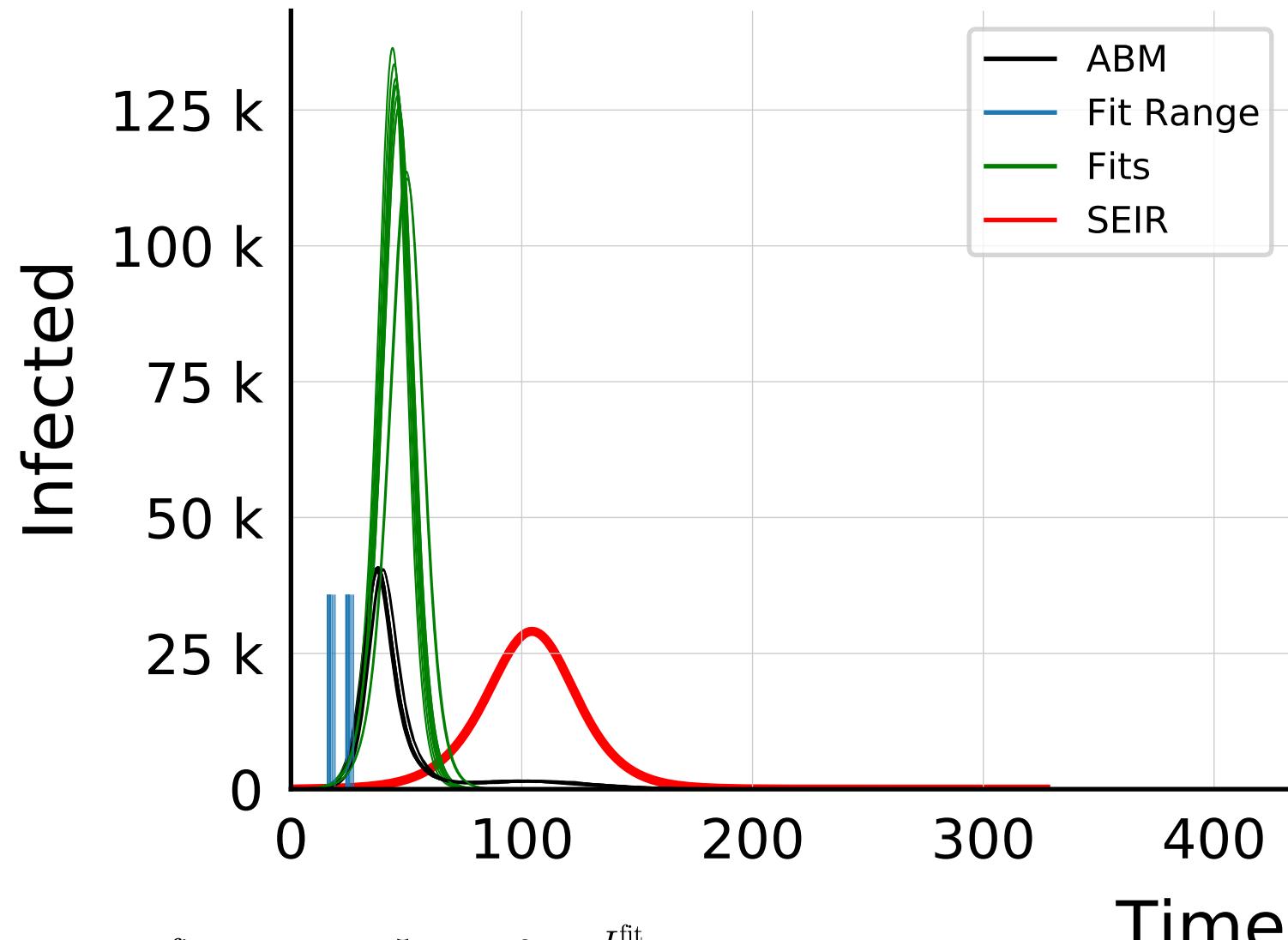


$$I_{\max}^{\text{fit}} = 13.4^{+2}_{-0.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.4 \pm 0.11$$

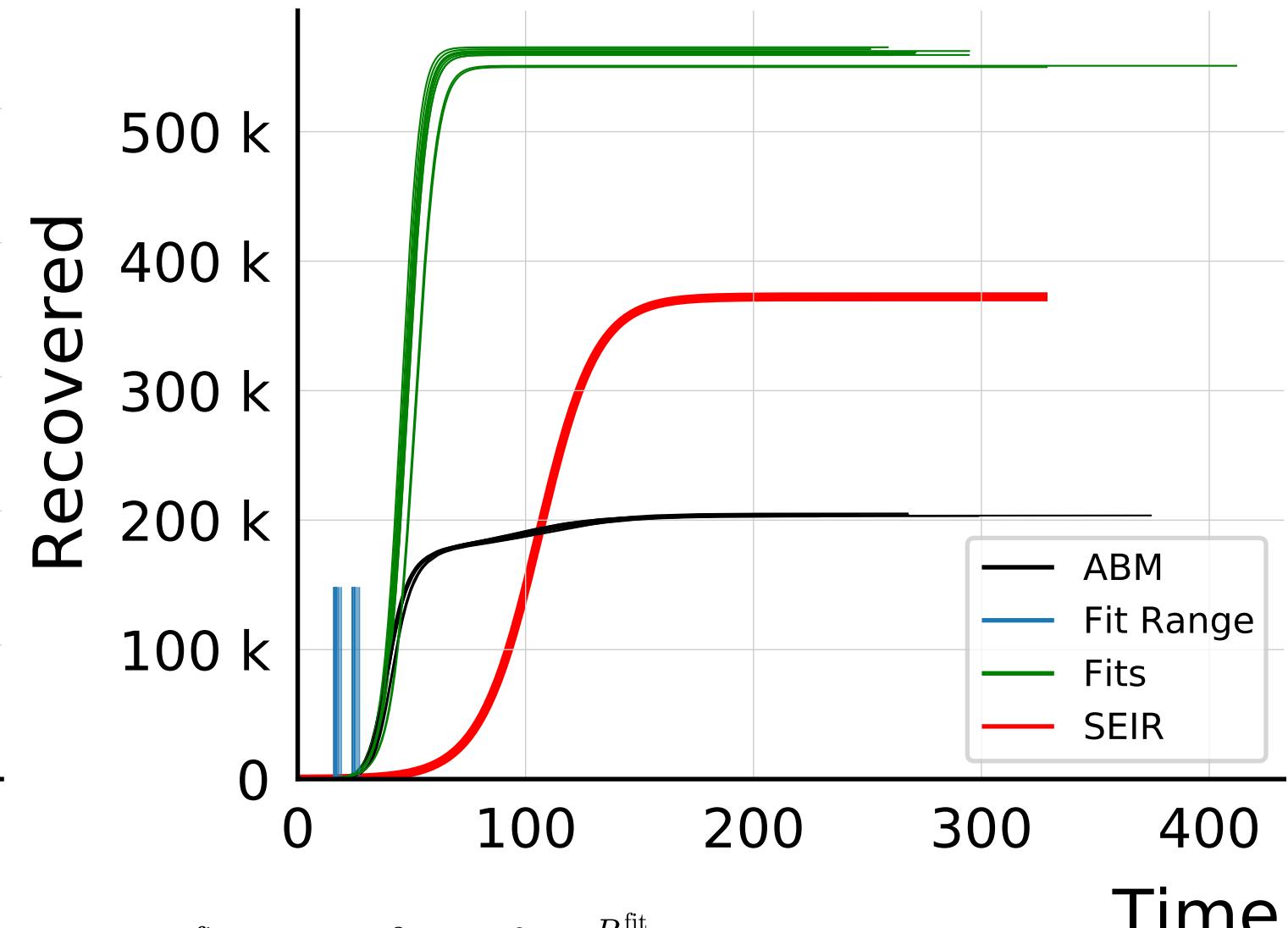


$$R_{\infty}^{\text{fit}} = 564^{+8}_{-3} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.8 \pm 0.011$$

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

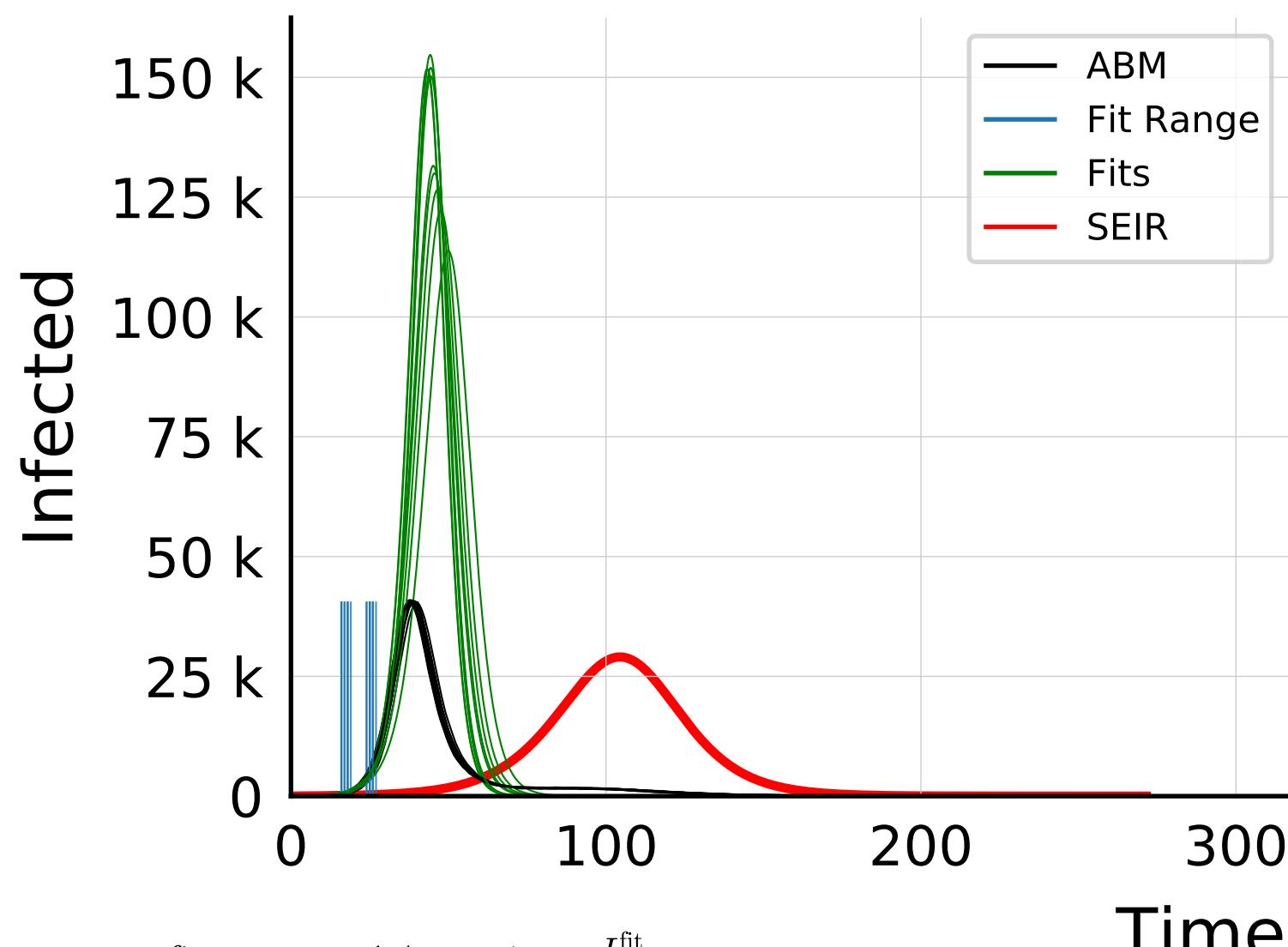


$$I_{\max}^{\text{fit}} = 129^{+5}_{-15} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.11 \pm 0.057$$

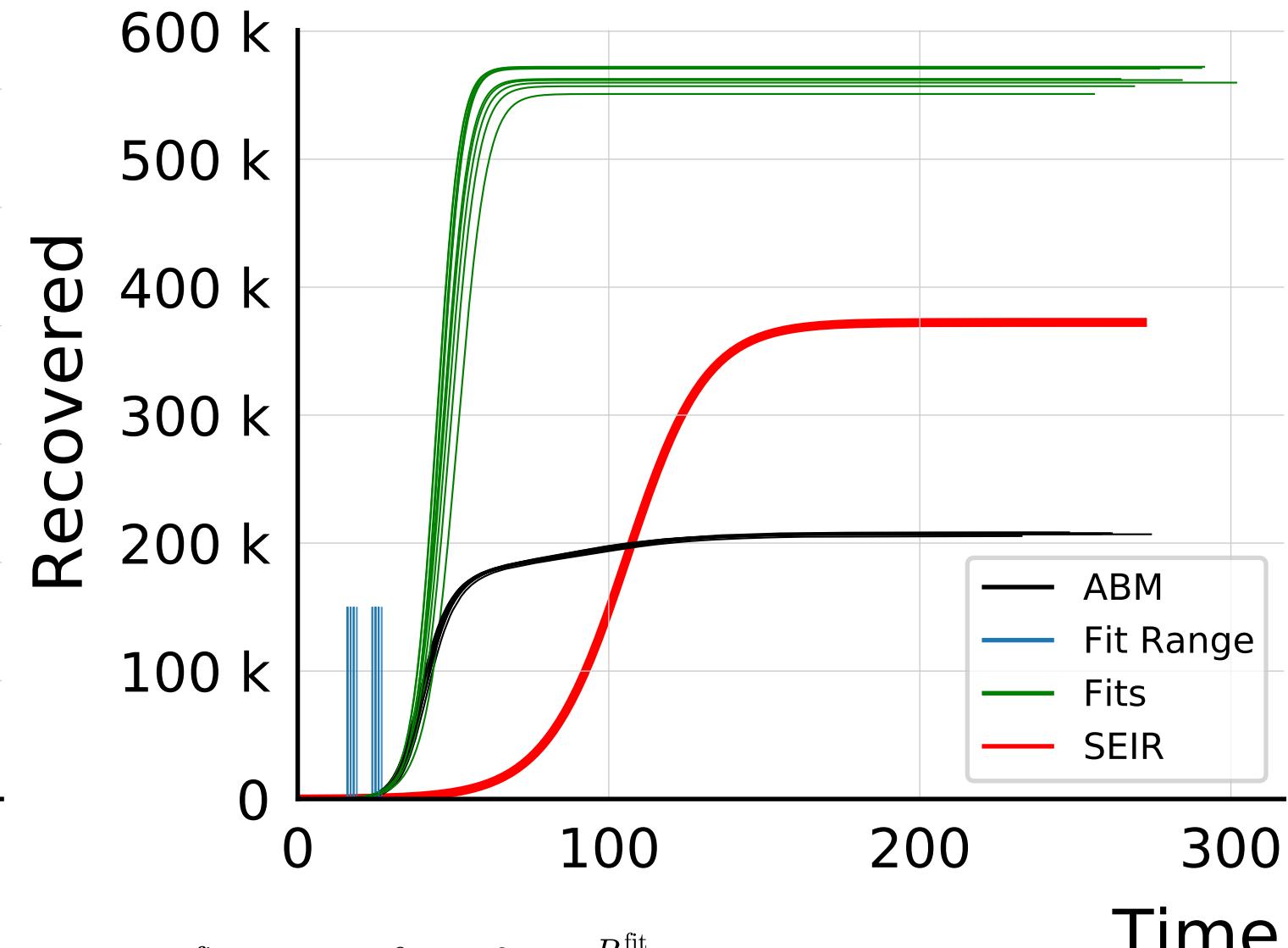


$$R_{\infty}^{\text{fit}} = 561^{+3}_{-10} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.746 \pm 0.0079$$

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

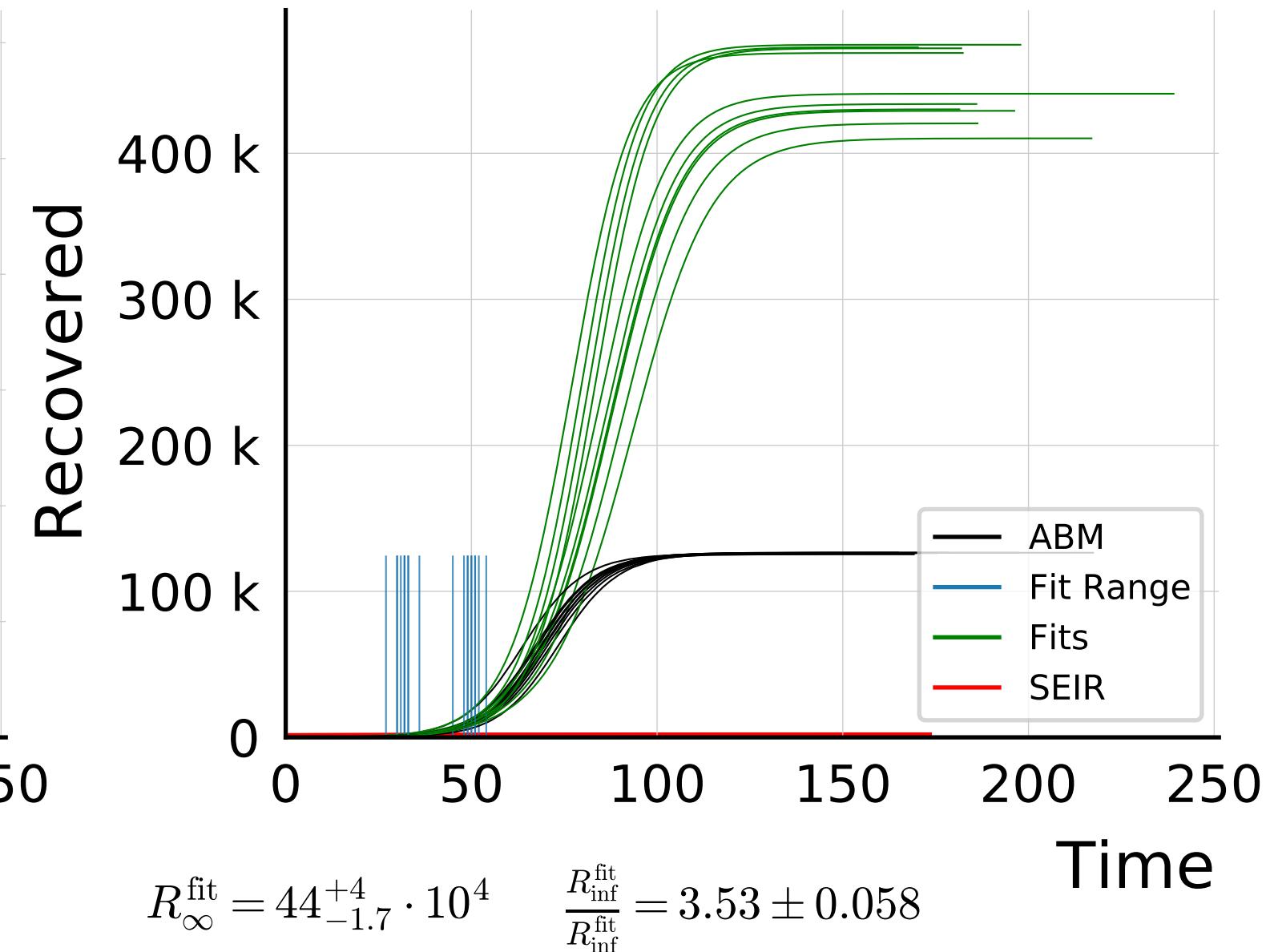
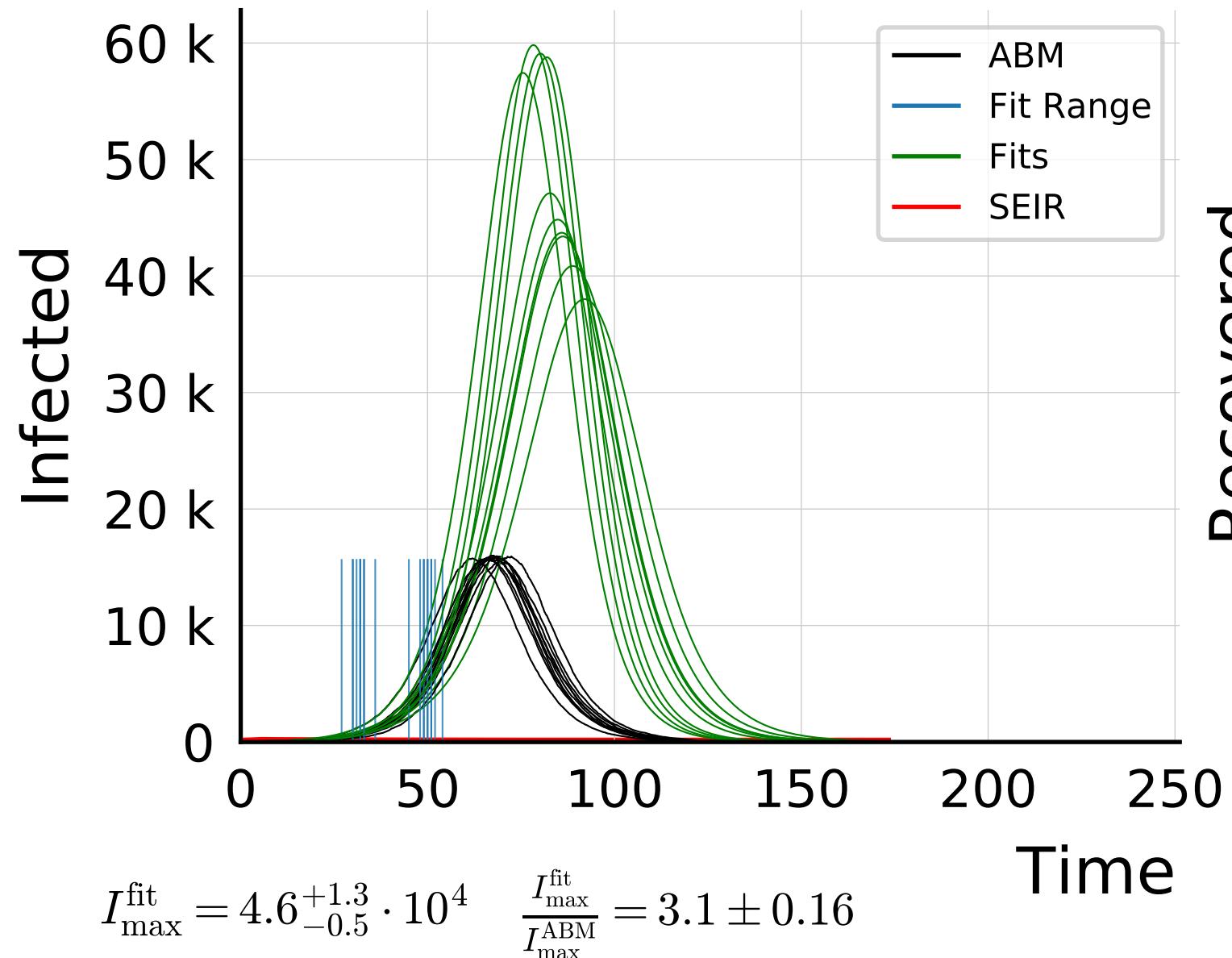


$$I_{\max}^{\text{fit}} = 14^{+1.4}_{-1.7} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.4 \pm 0.11$$

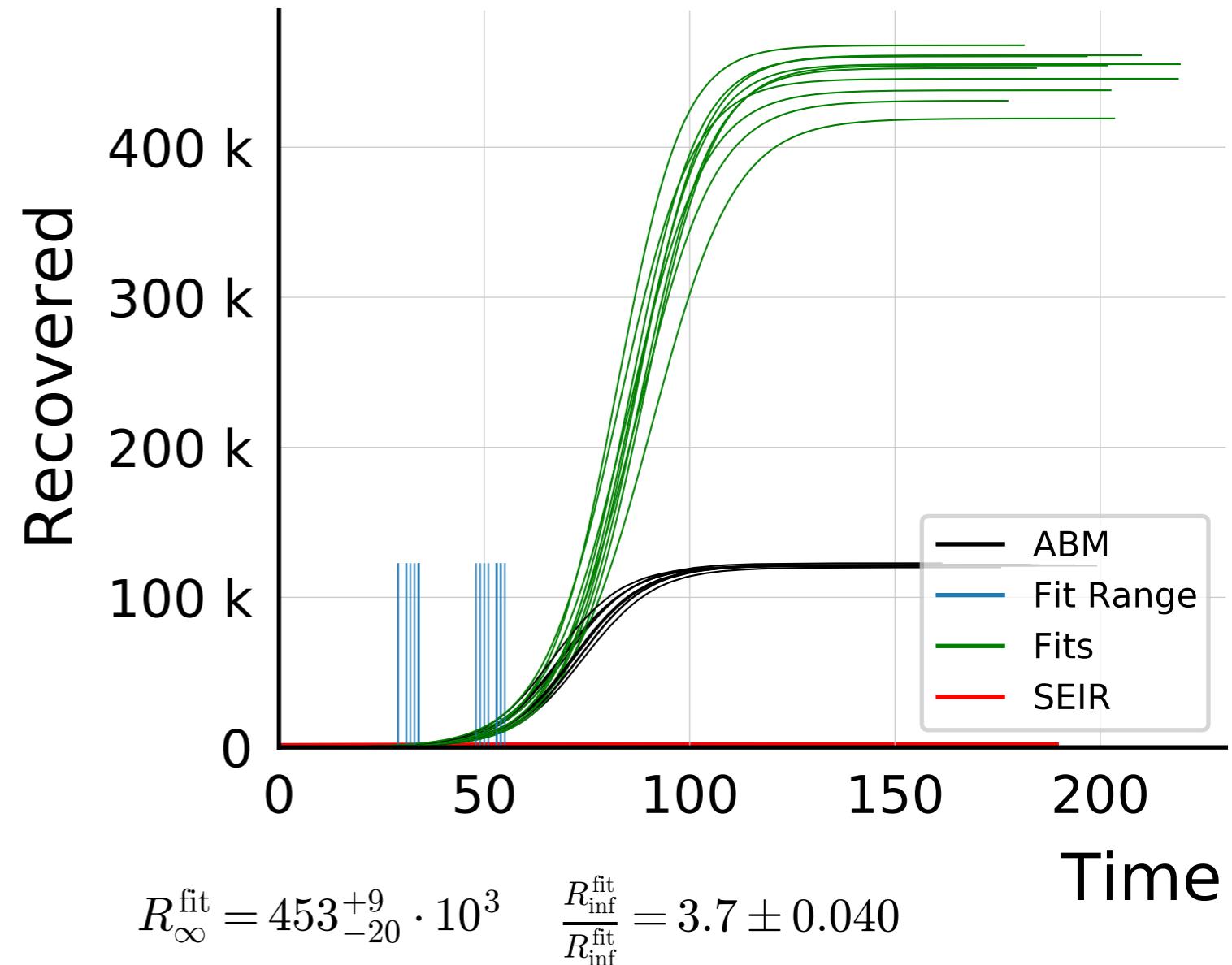
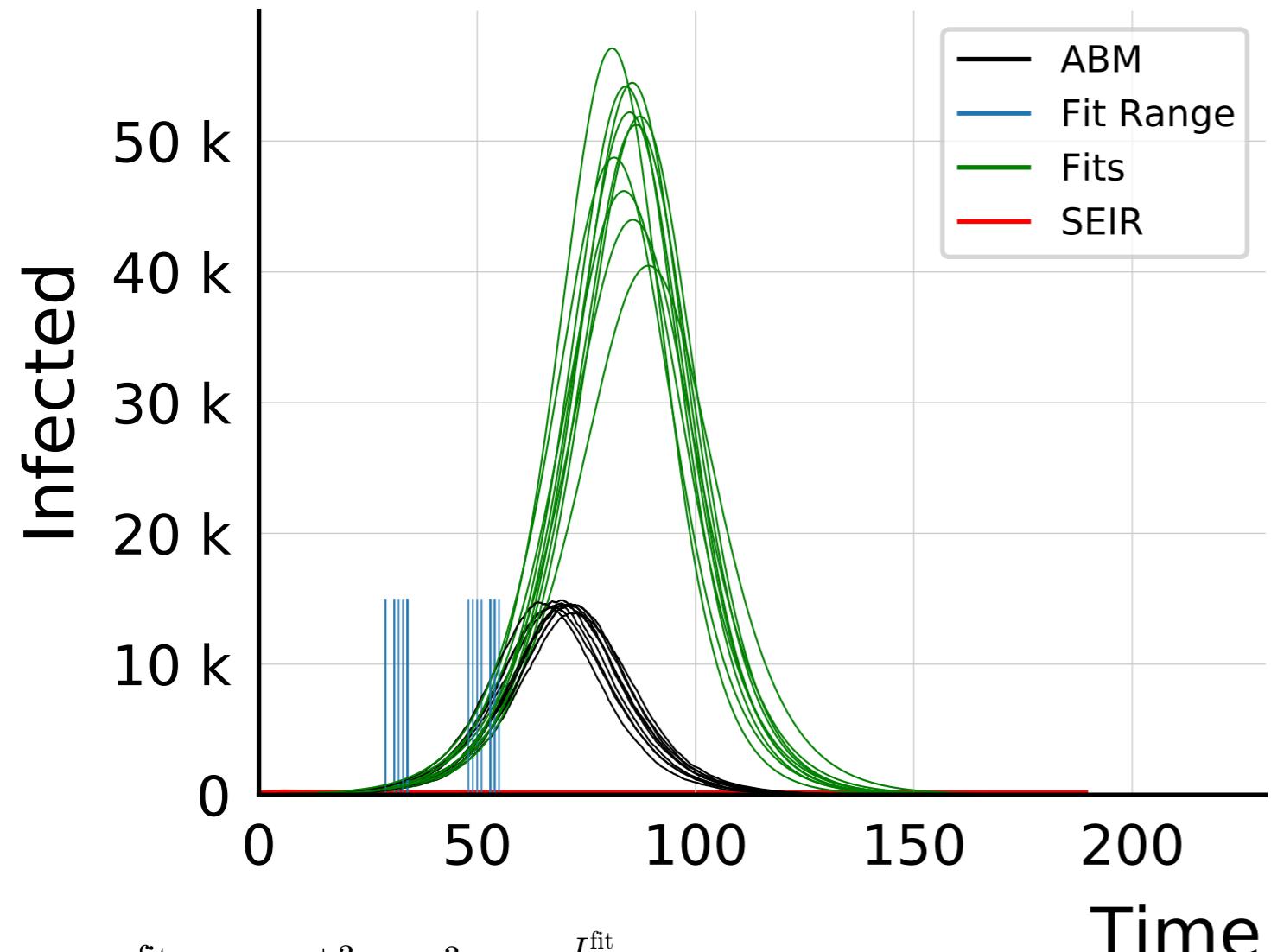


$$R_{\infty}^{\text{fit}} = 566^{+6}_{-9} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 2.725 \pm 0.0086$$

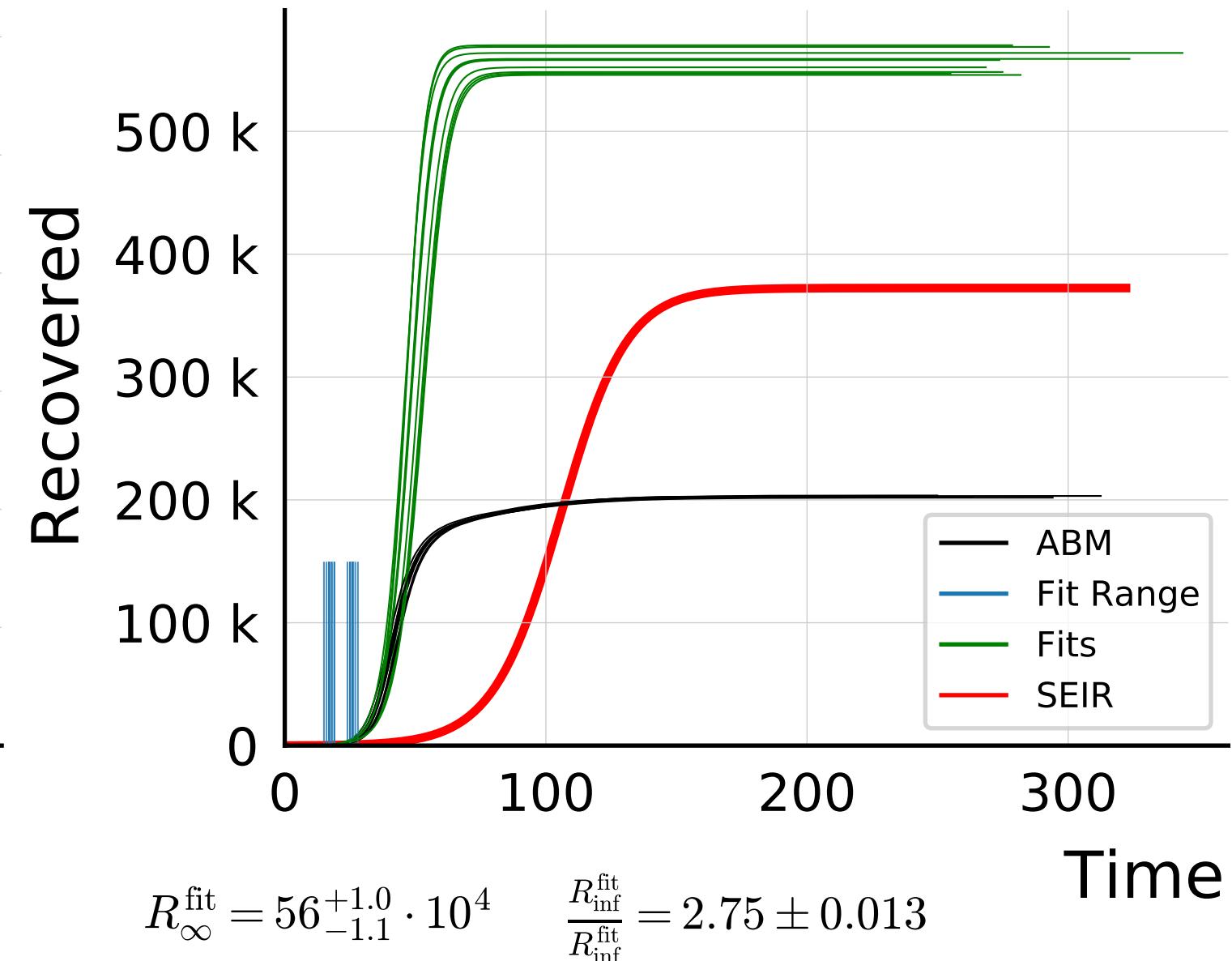
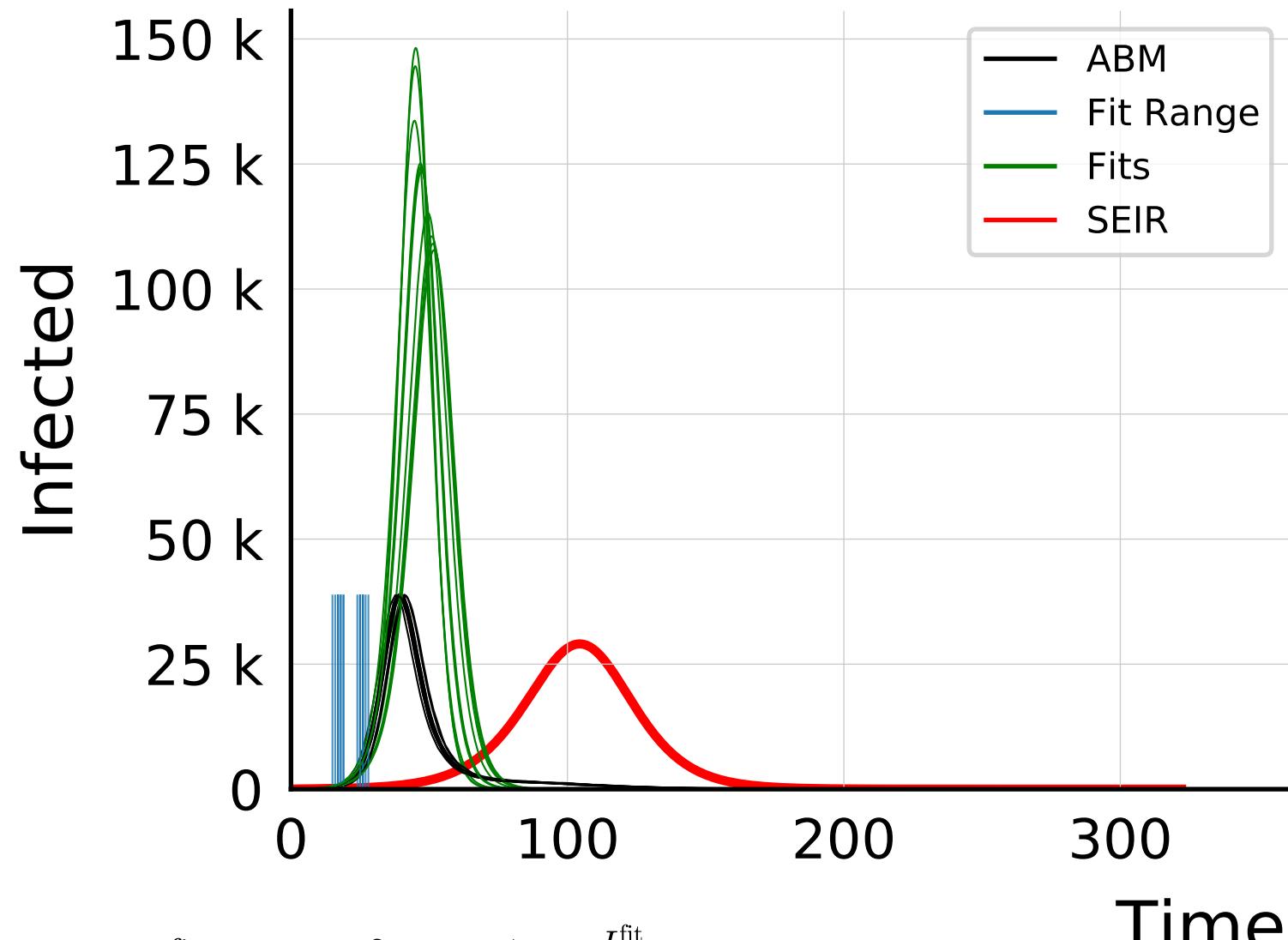
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



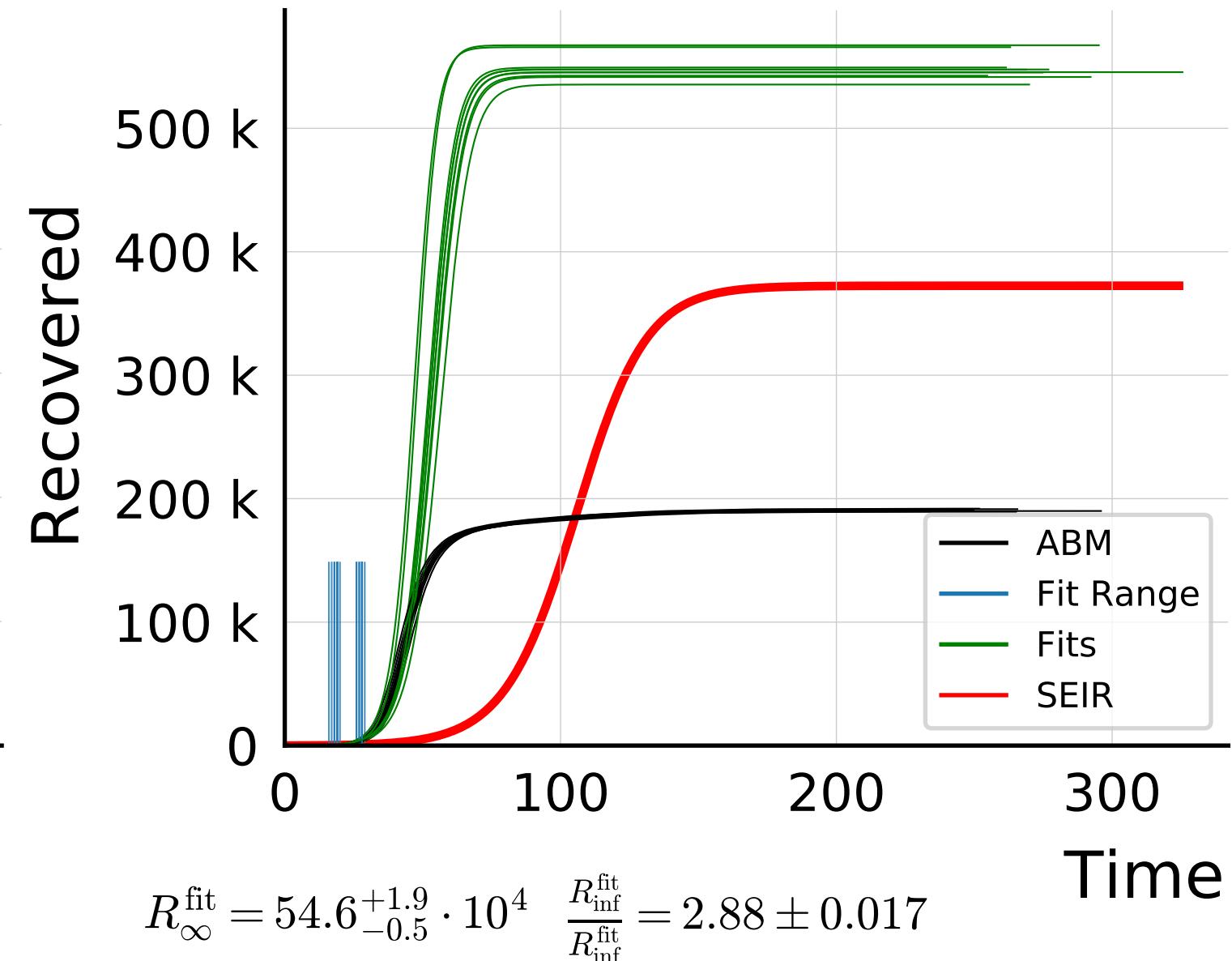
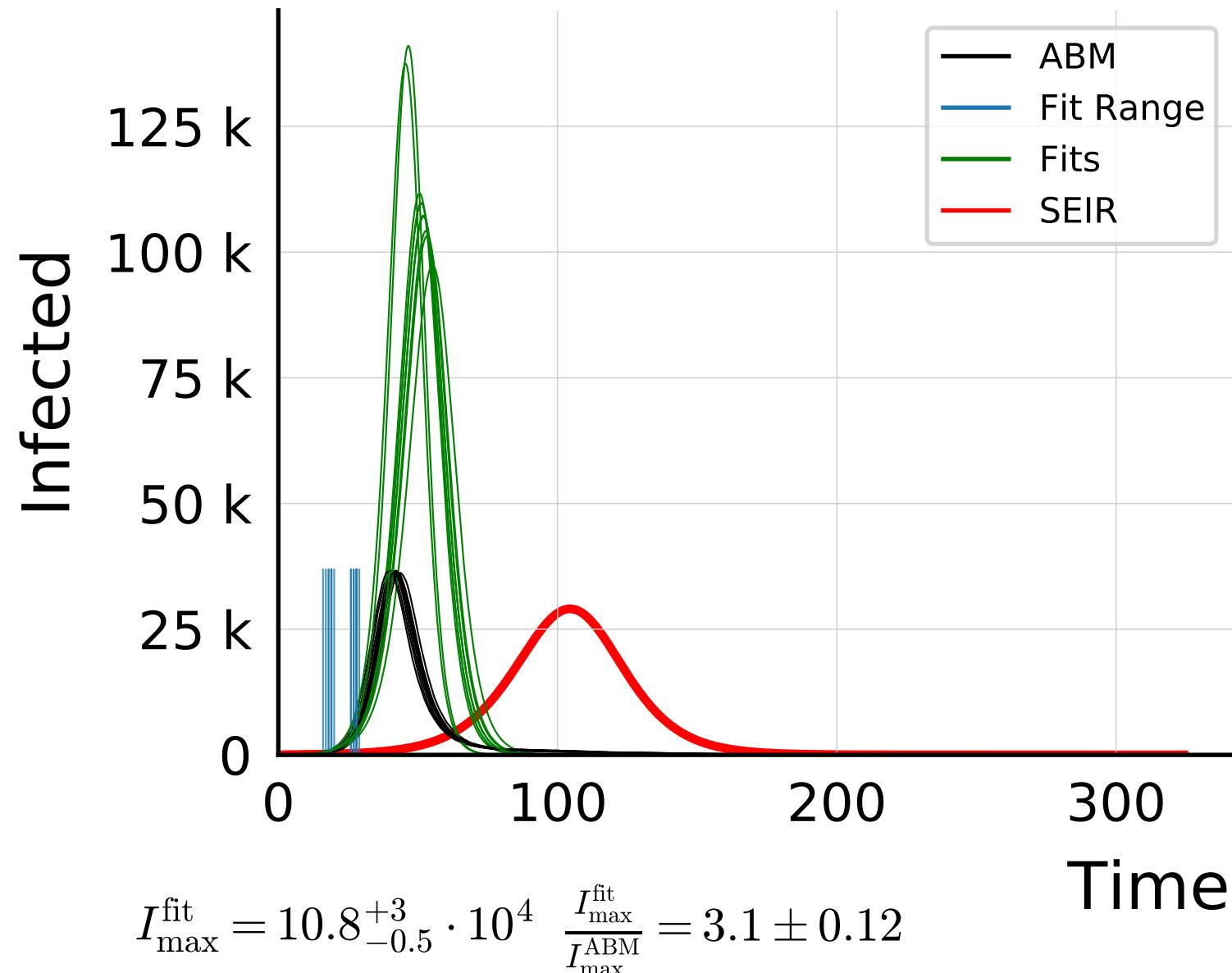
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



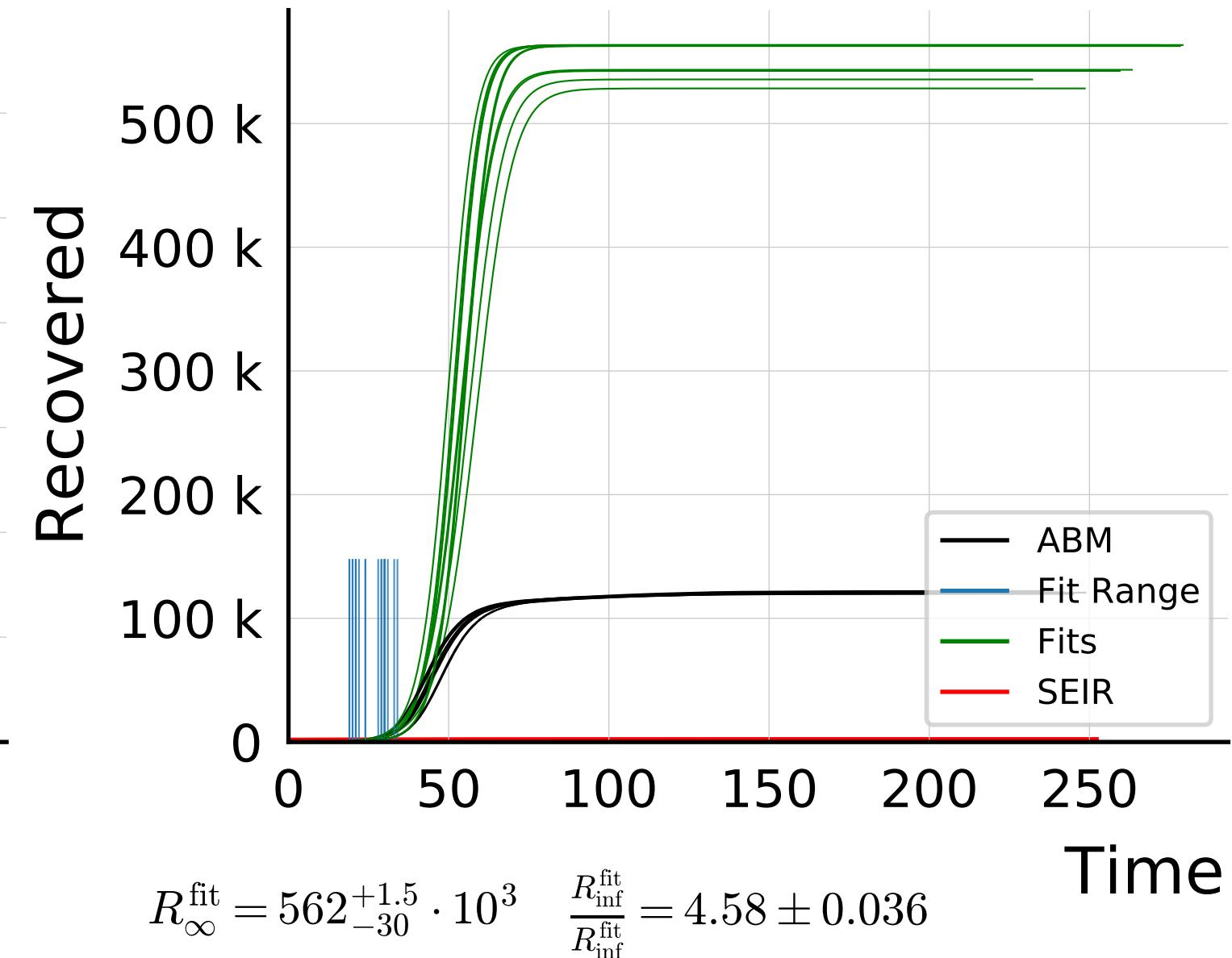
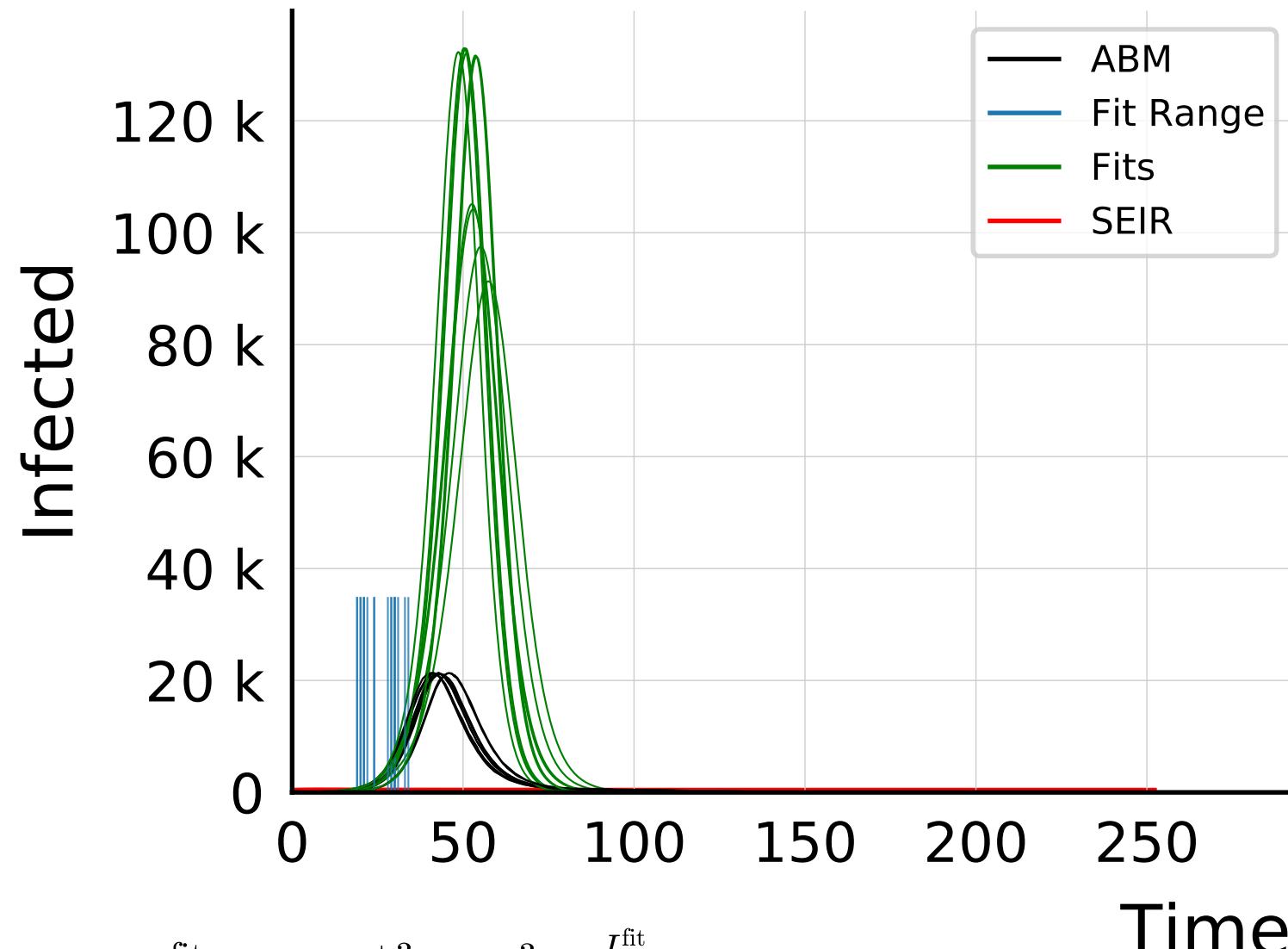
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



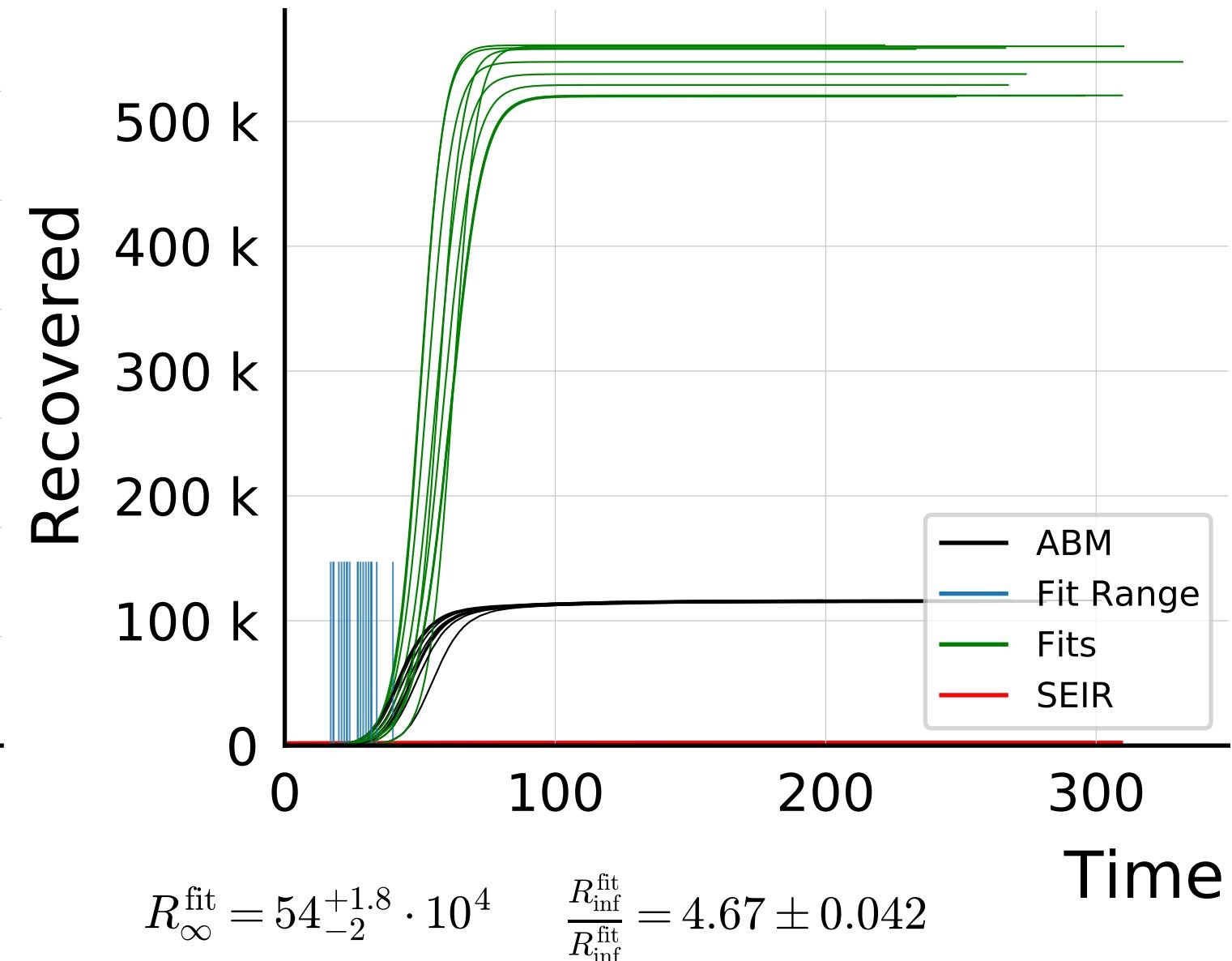
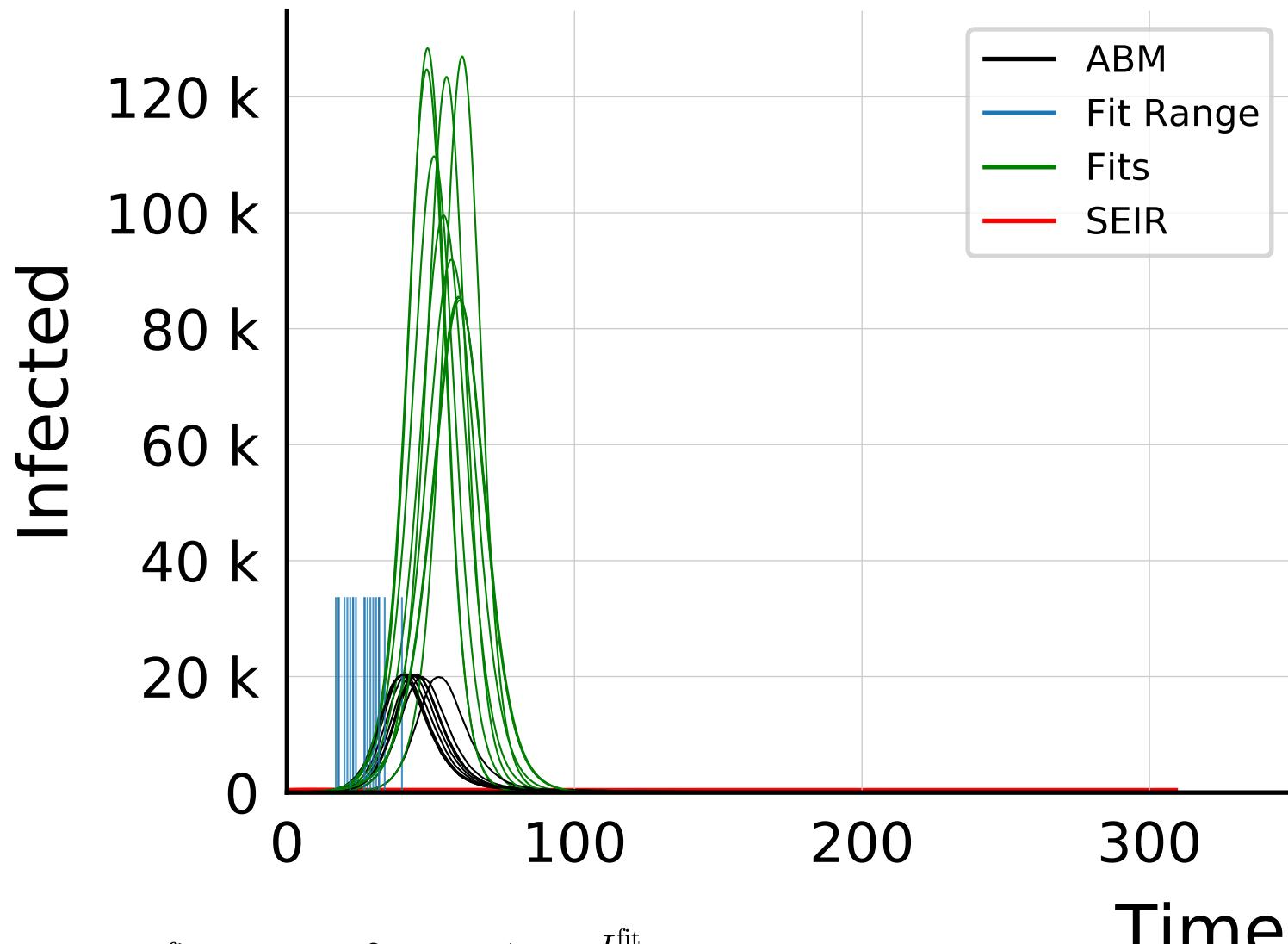
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



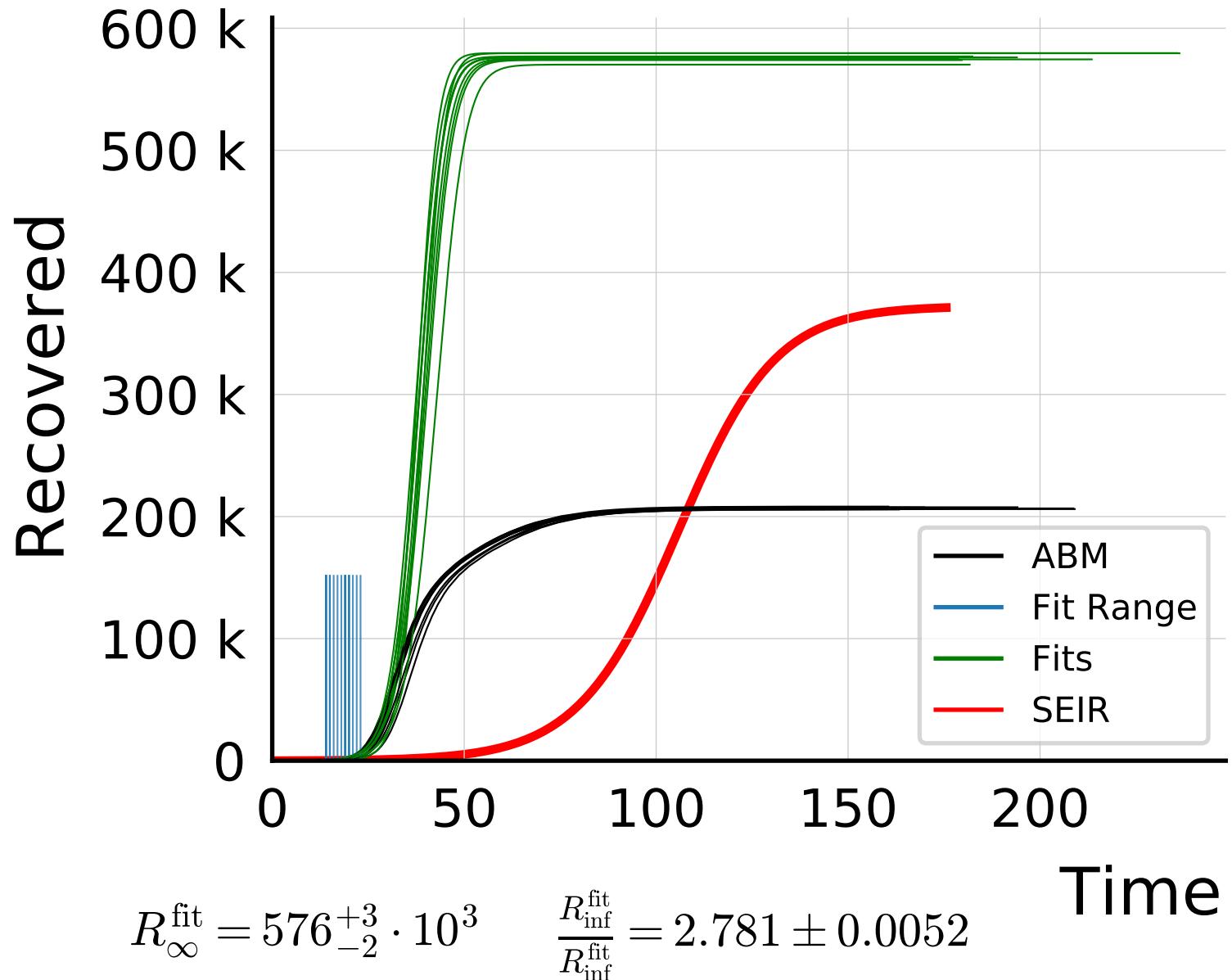
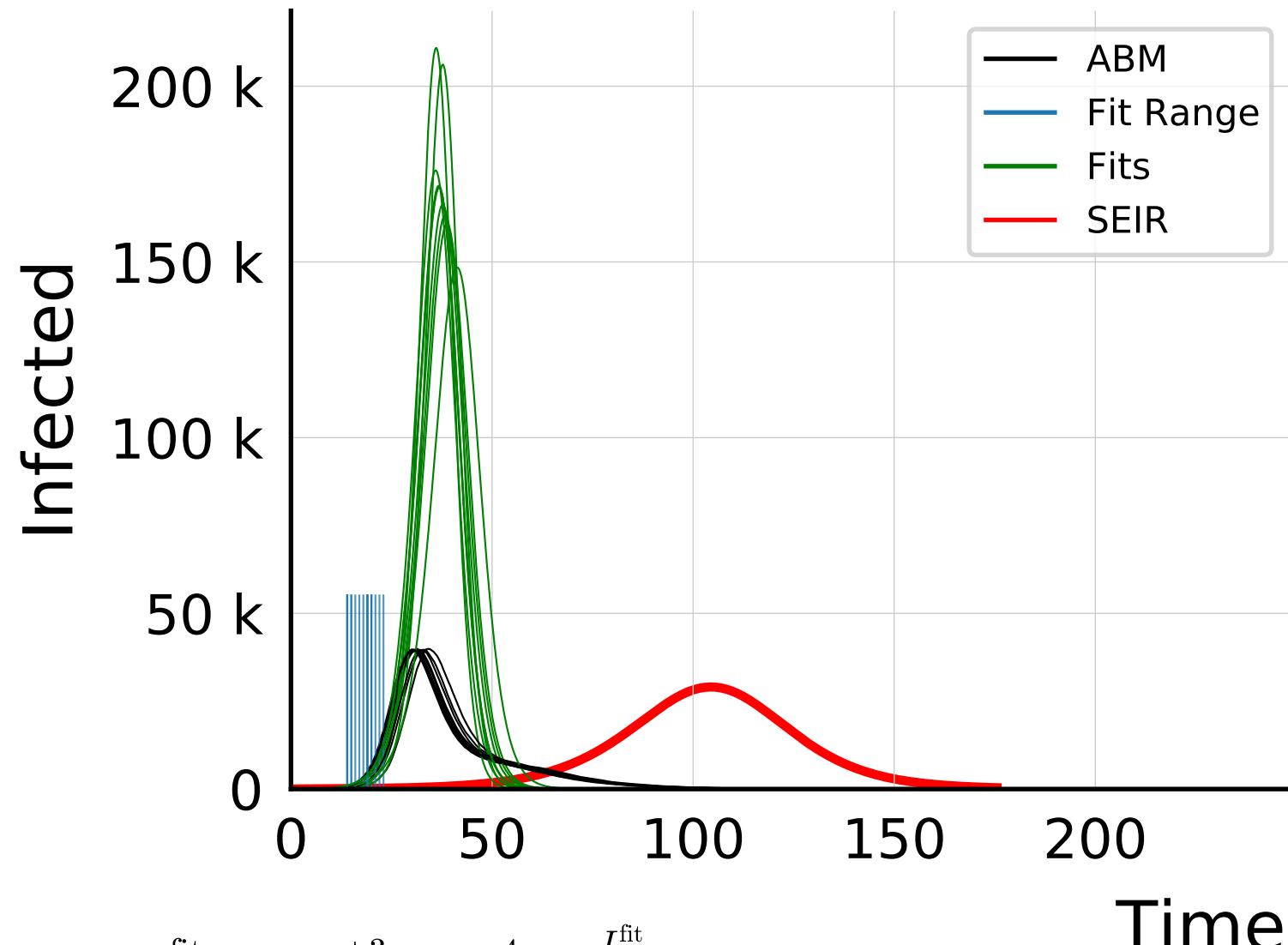
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



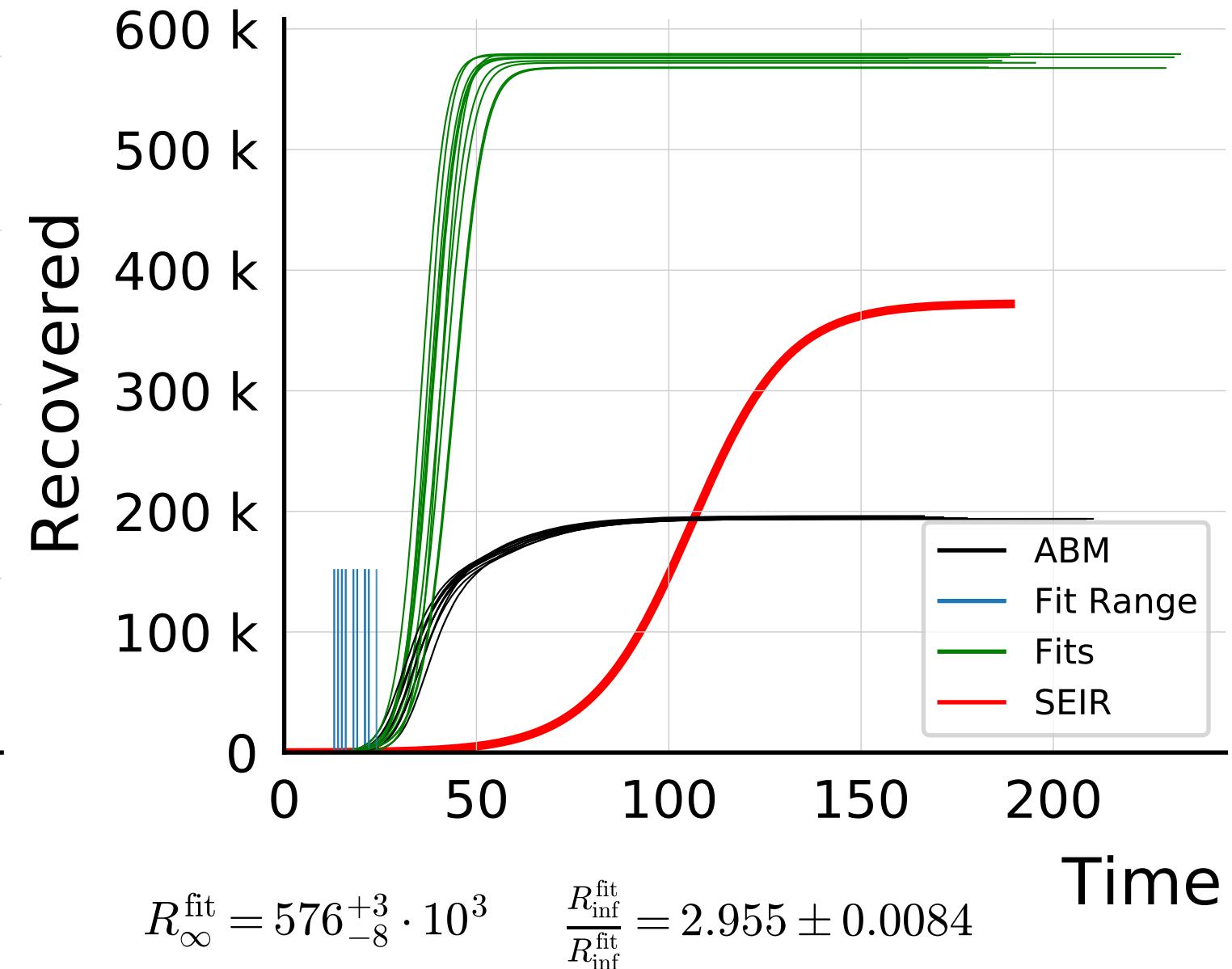
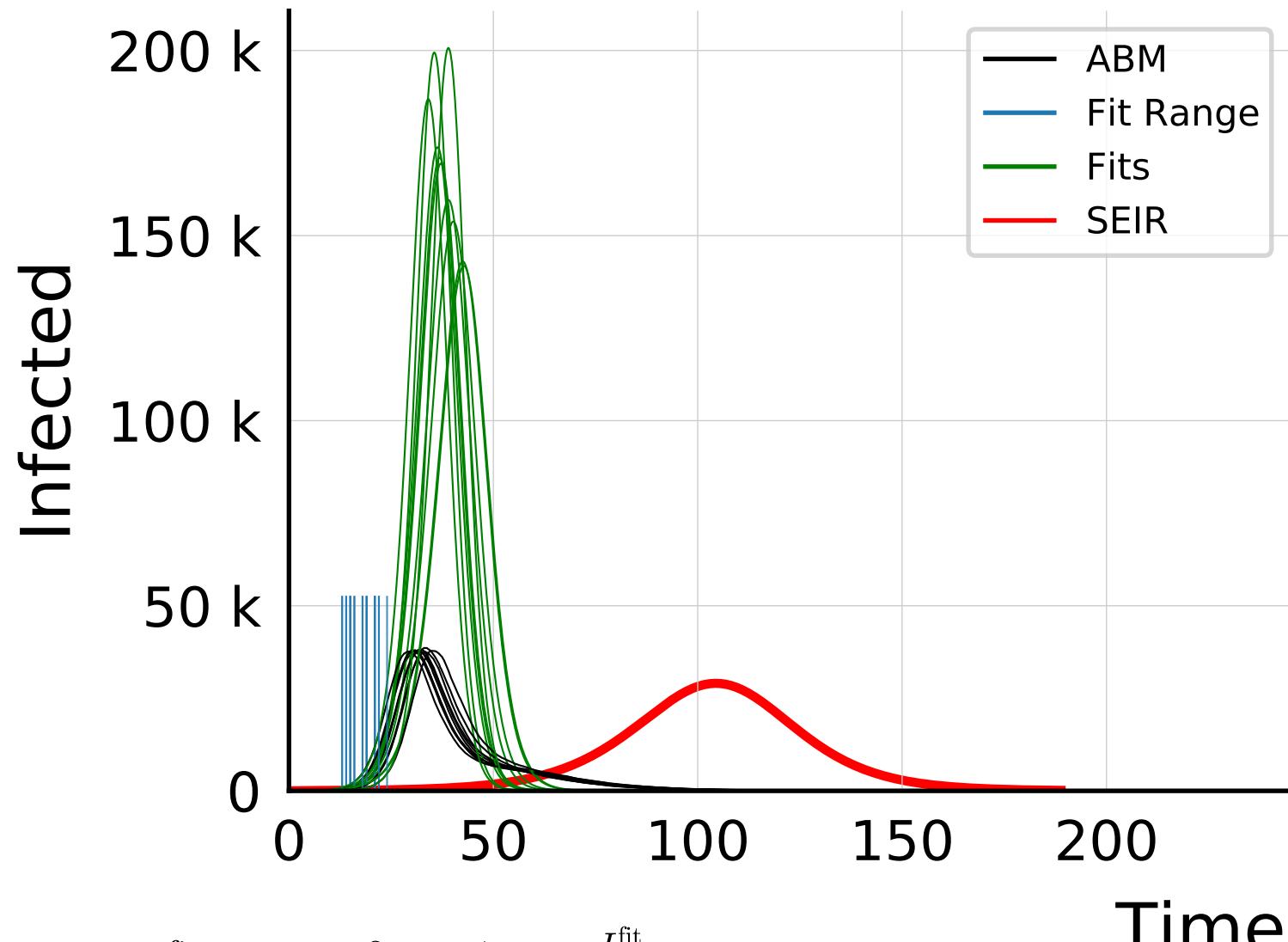
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



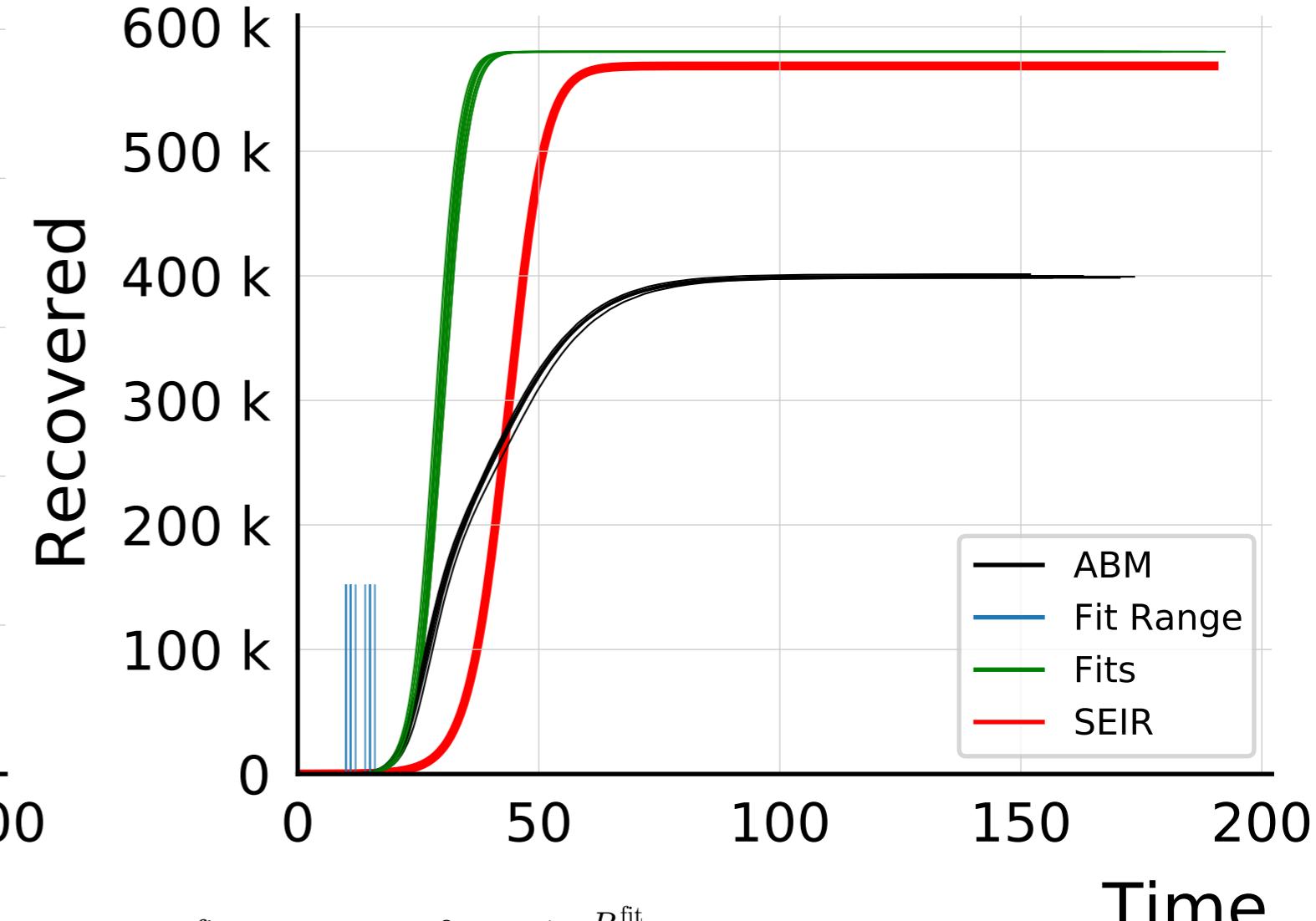
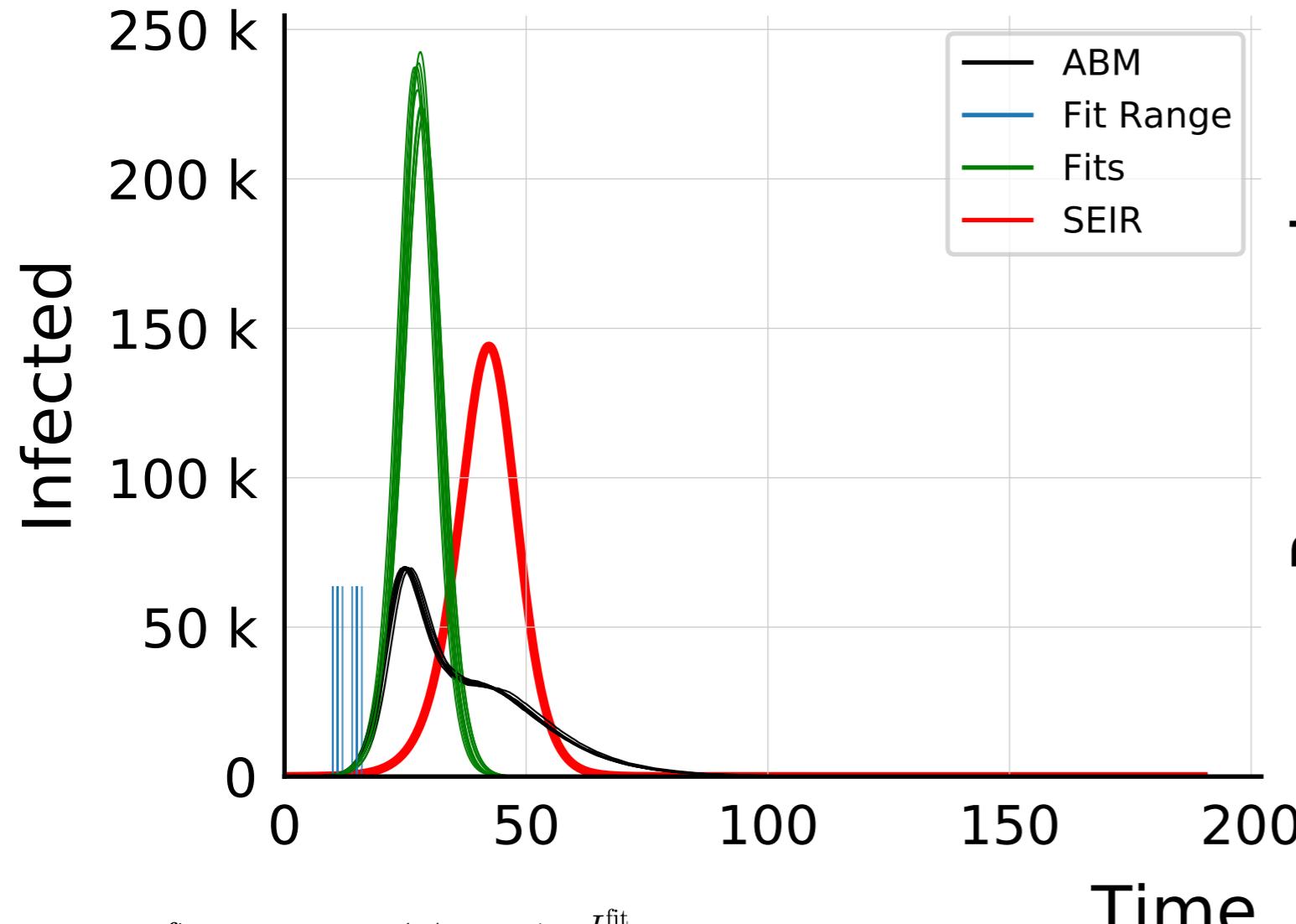
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



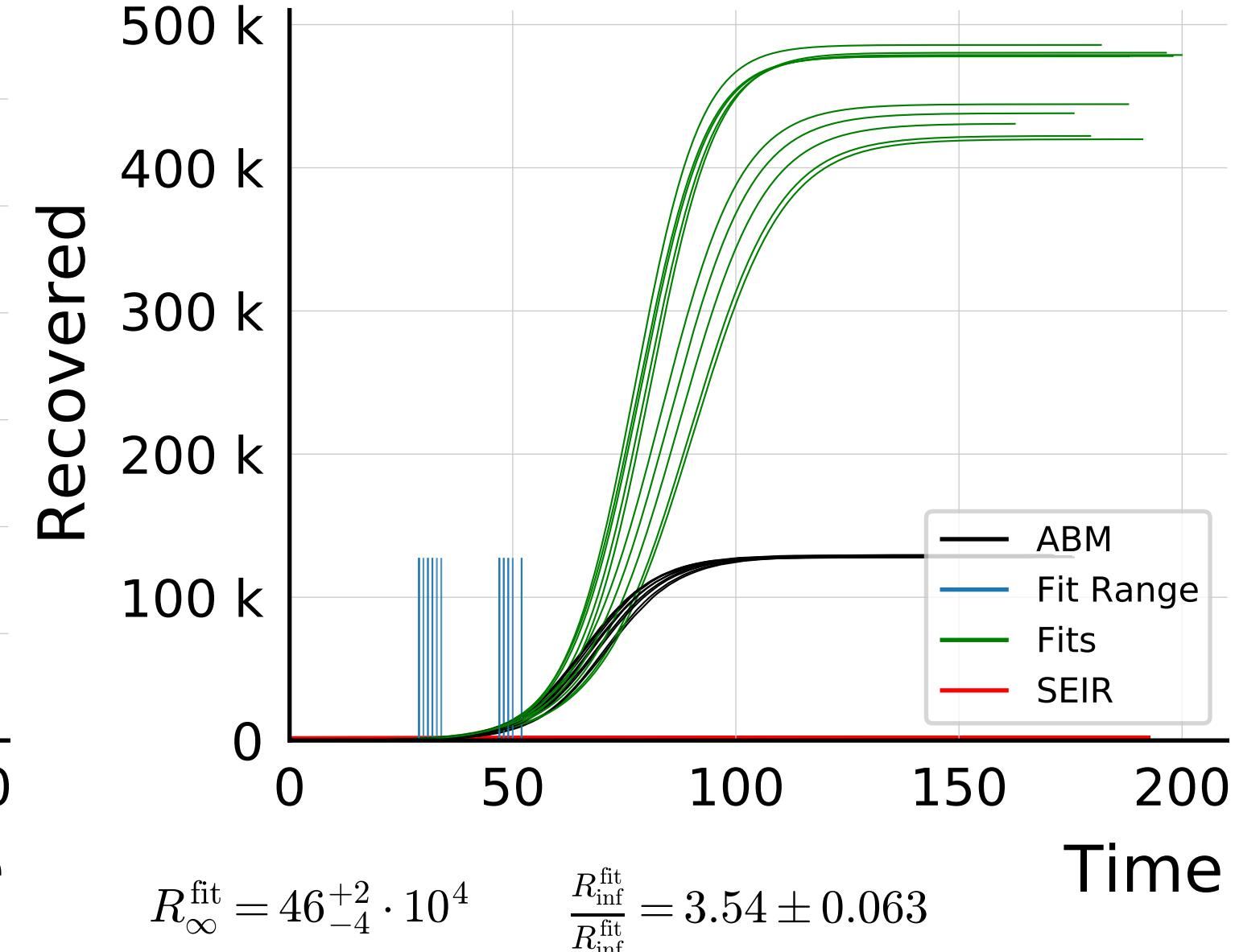
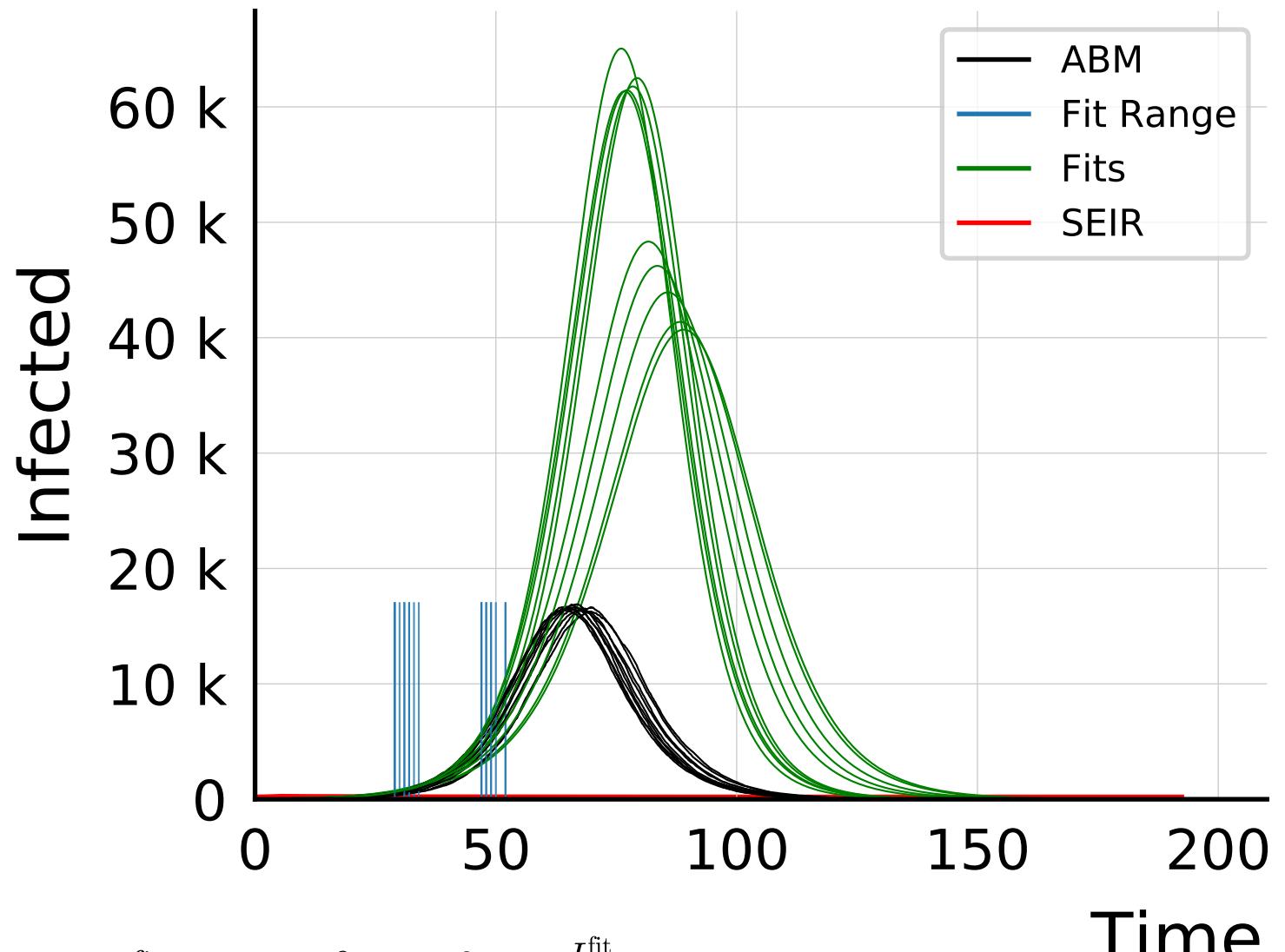
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



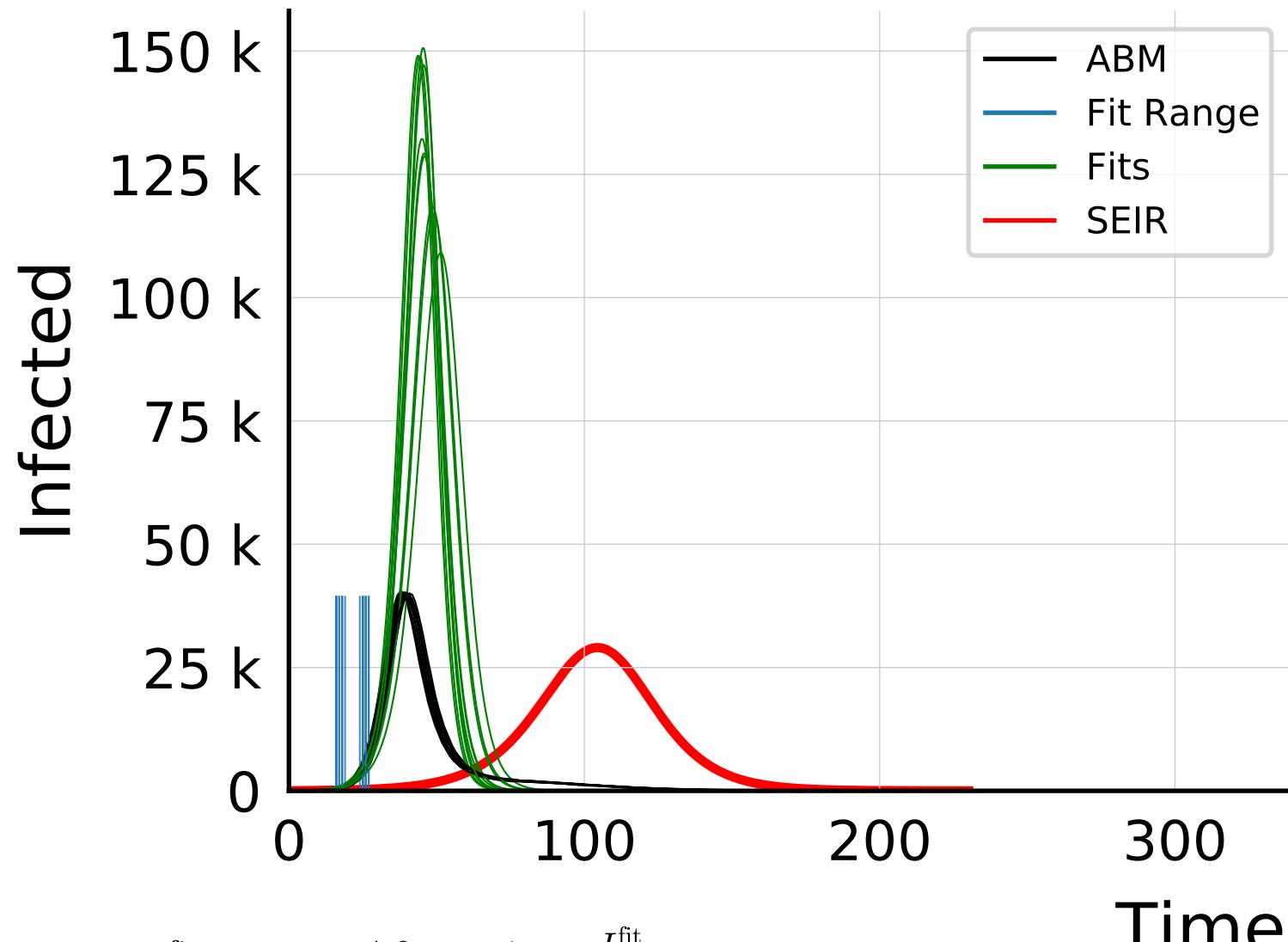
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 100.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



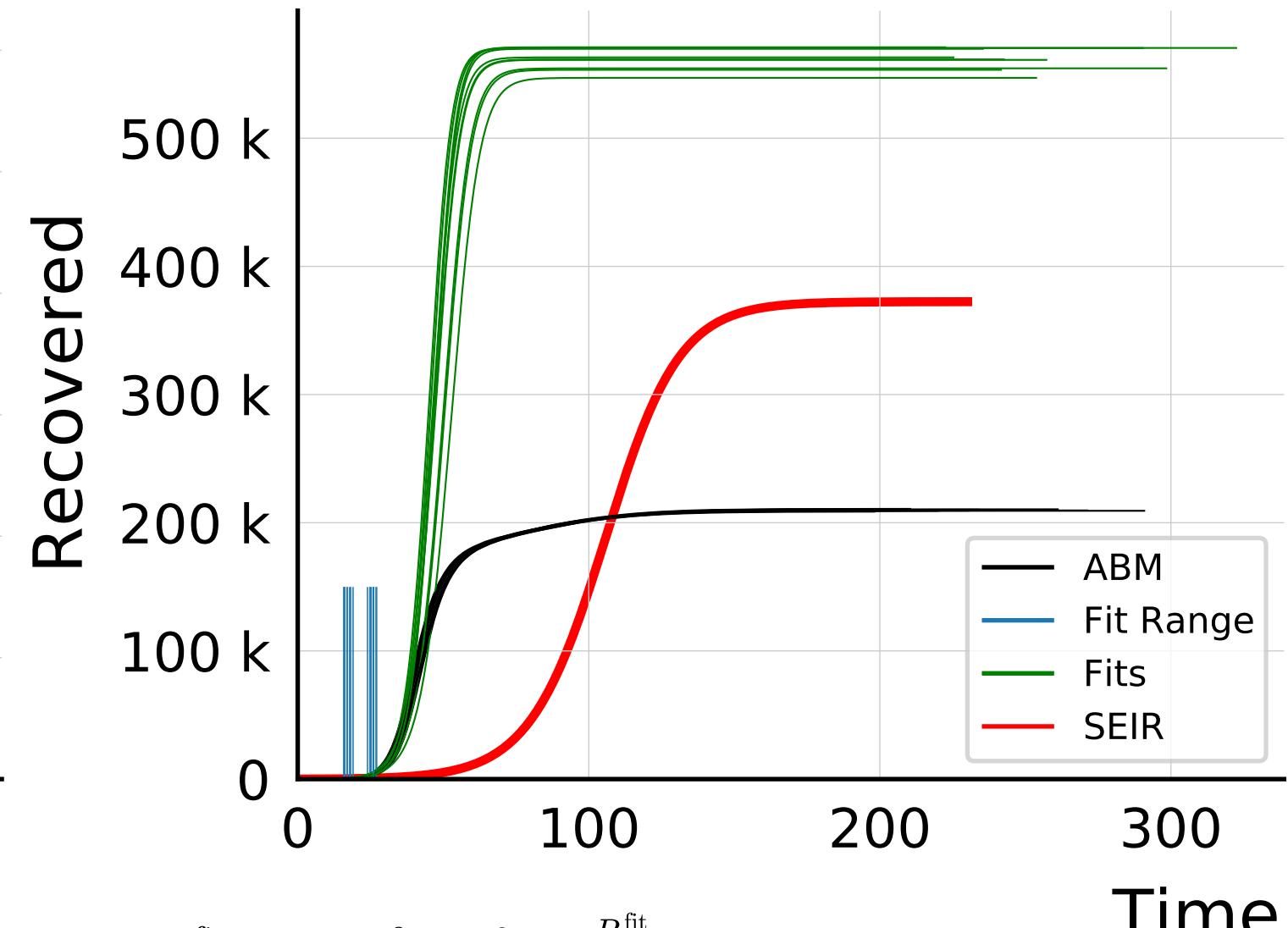
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

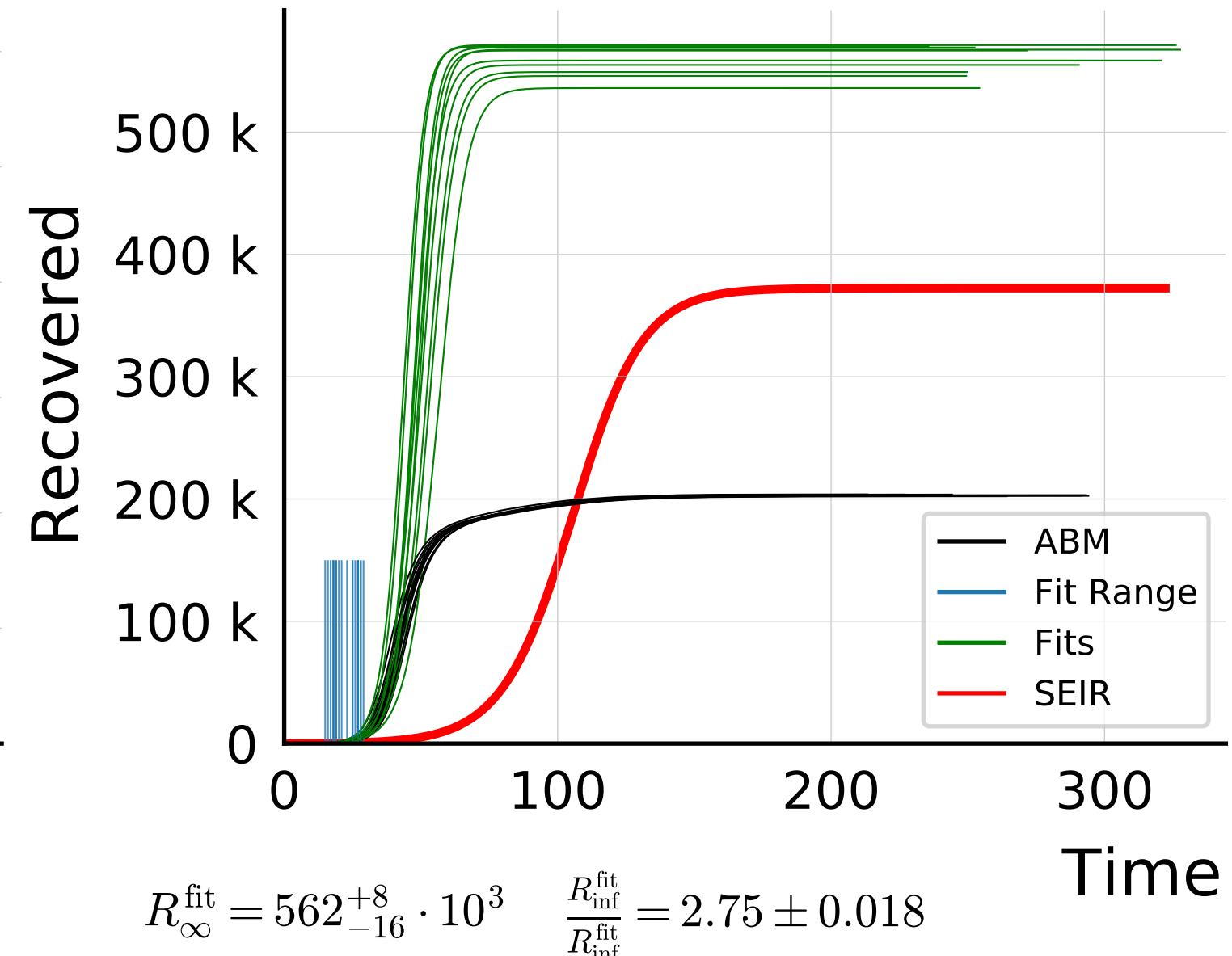
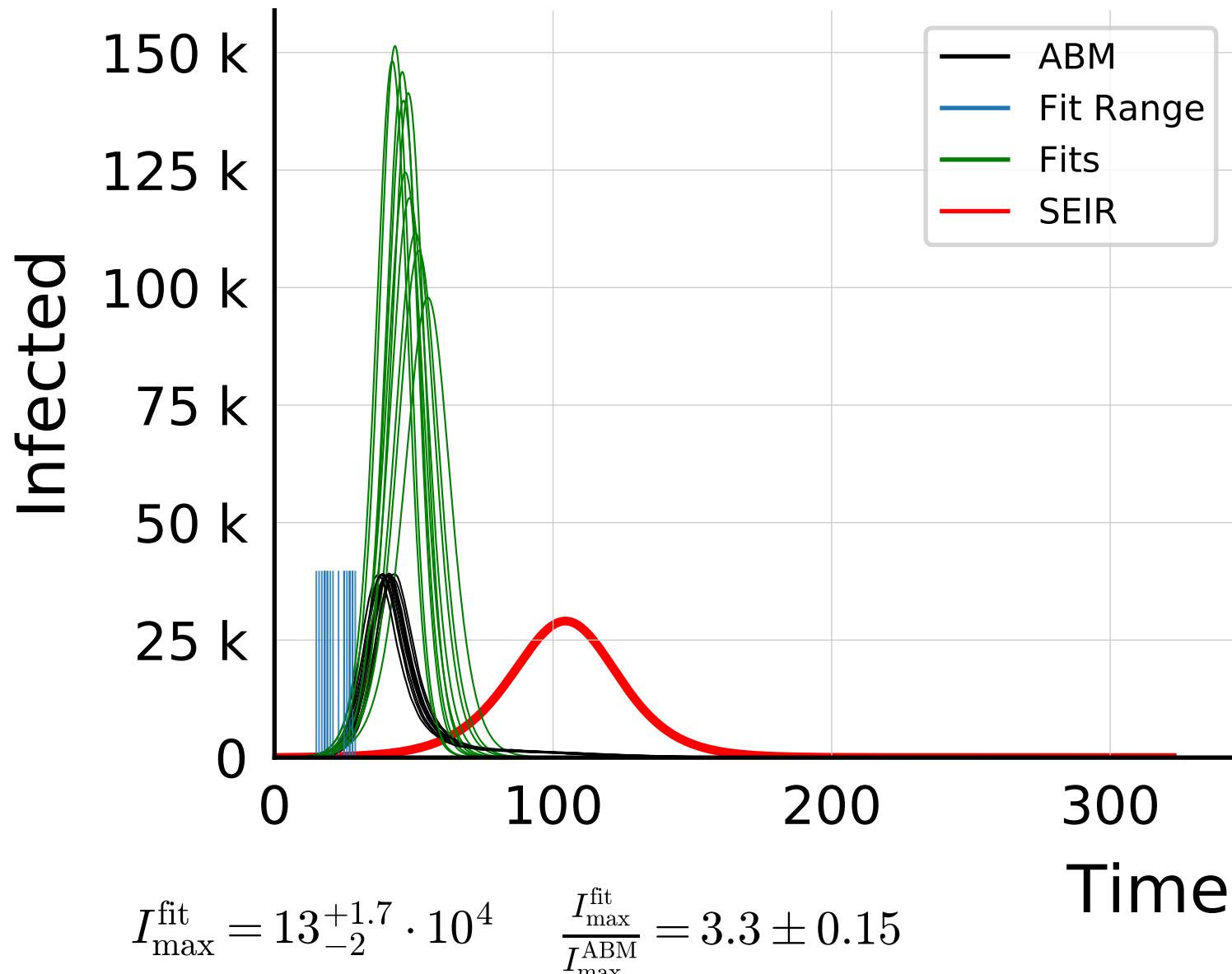


$$I_{\max}^{\text{fit}} = 13_{-1.4}^{+1.9} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.12$$

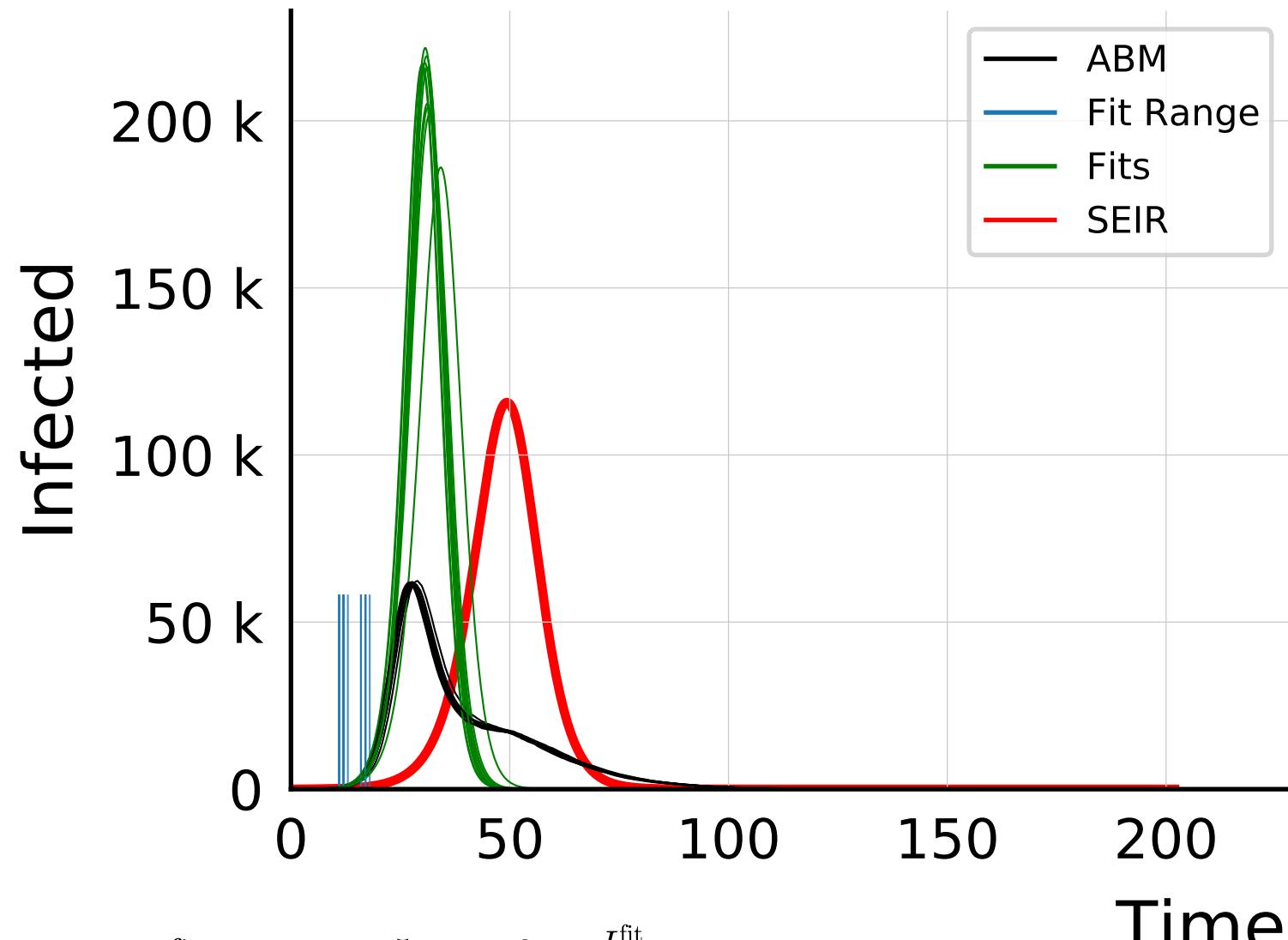


$$R_{\infty}^{\text{fit}} = 562_{-9}^{+8} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\infty}^{\text{fit}}} = 2.68 \pm 0.012$$

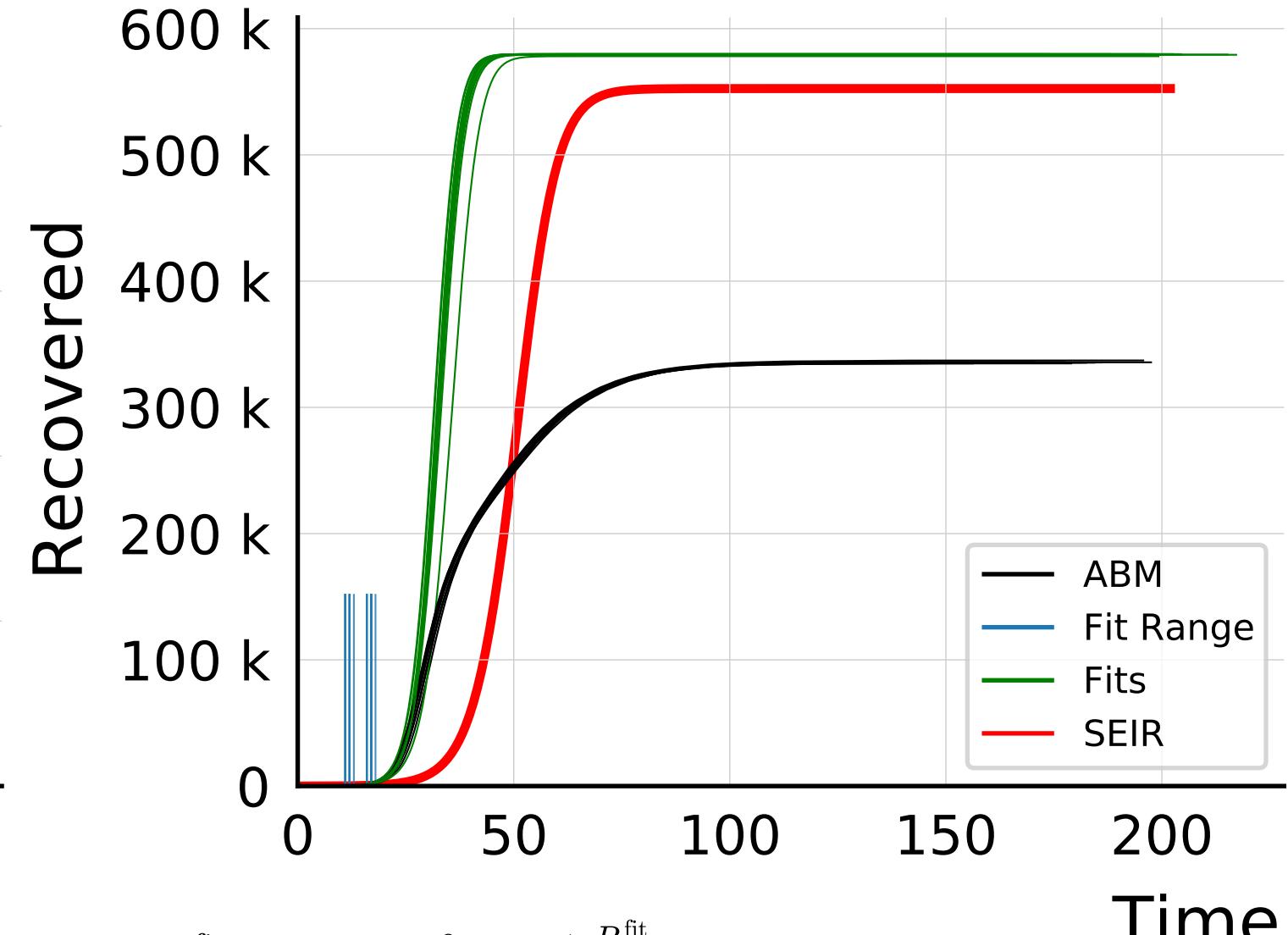
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

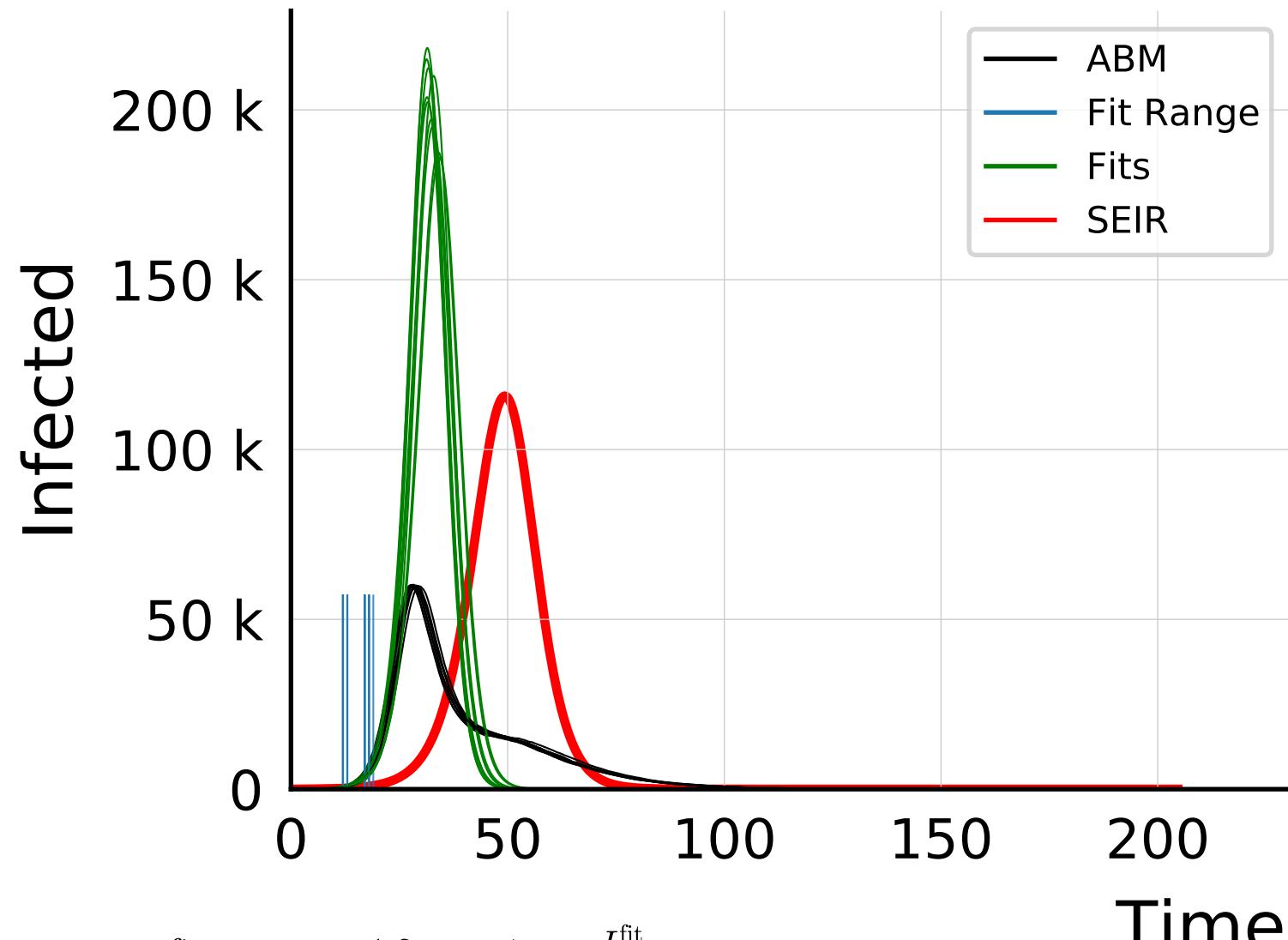


$$I_{\max}^{\text{fit}} = 215_{-13}^{+5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.41 \pm 0.056$$

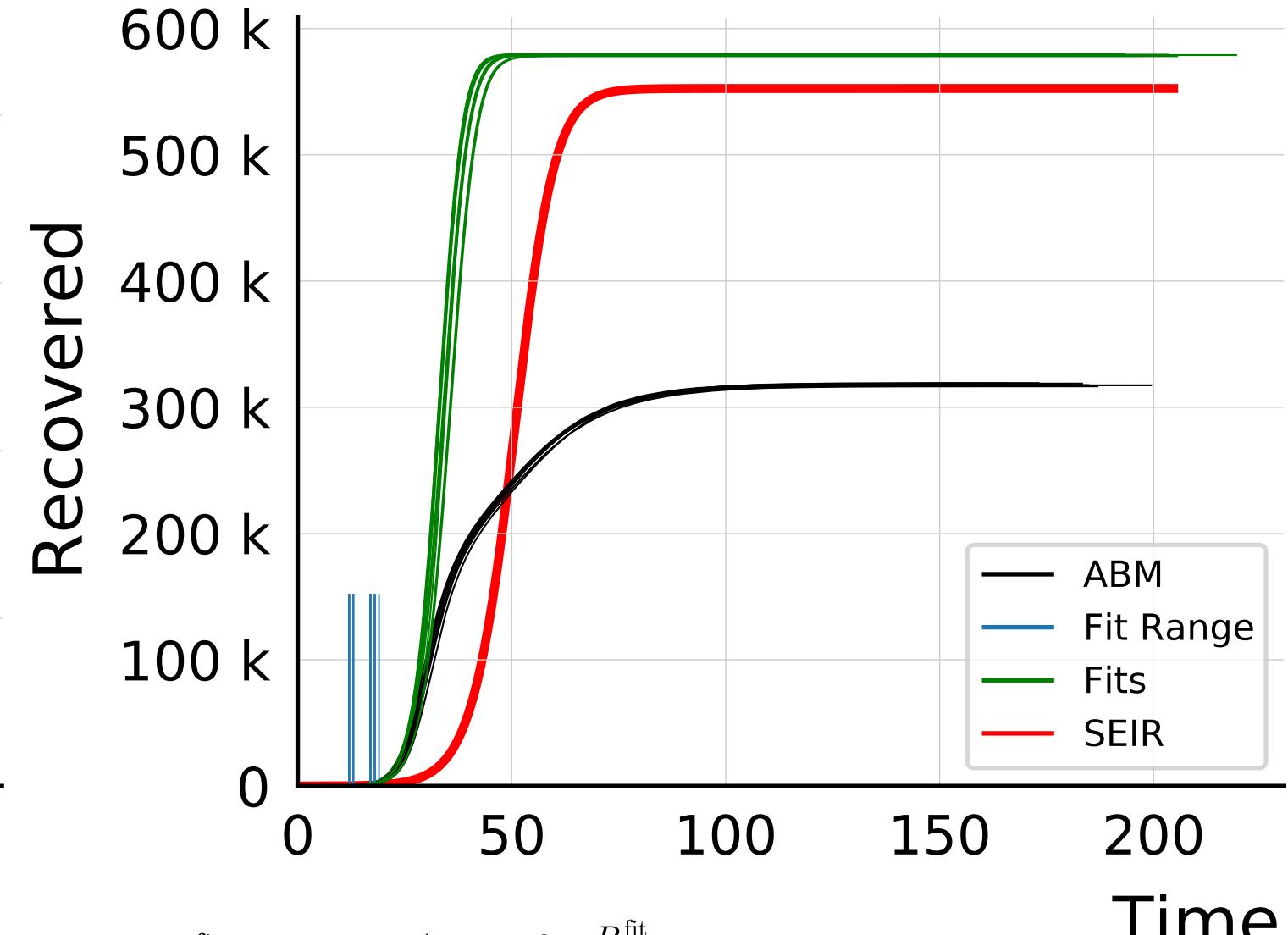


$$R_{\infty}^{\text{fit}} = 57975_{-40}^{+9} \cdot 10^1 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.727 \pm 0.0012$$

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

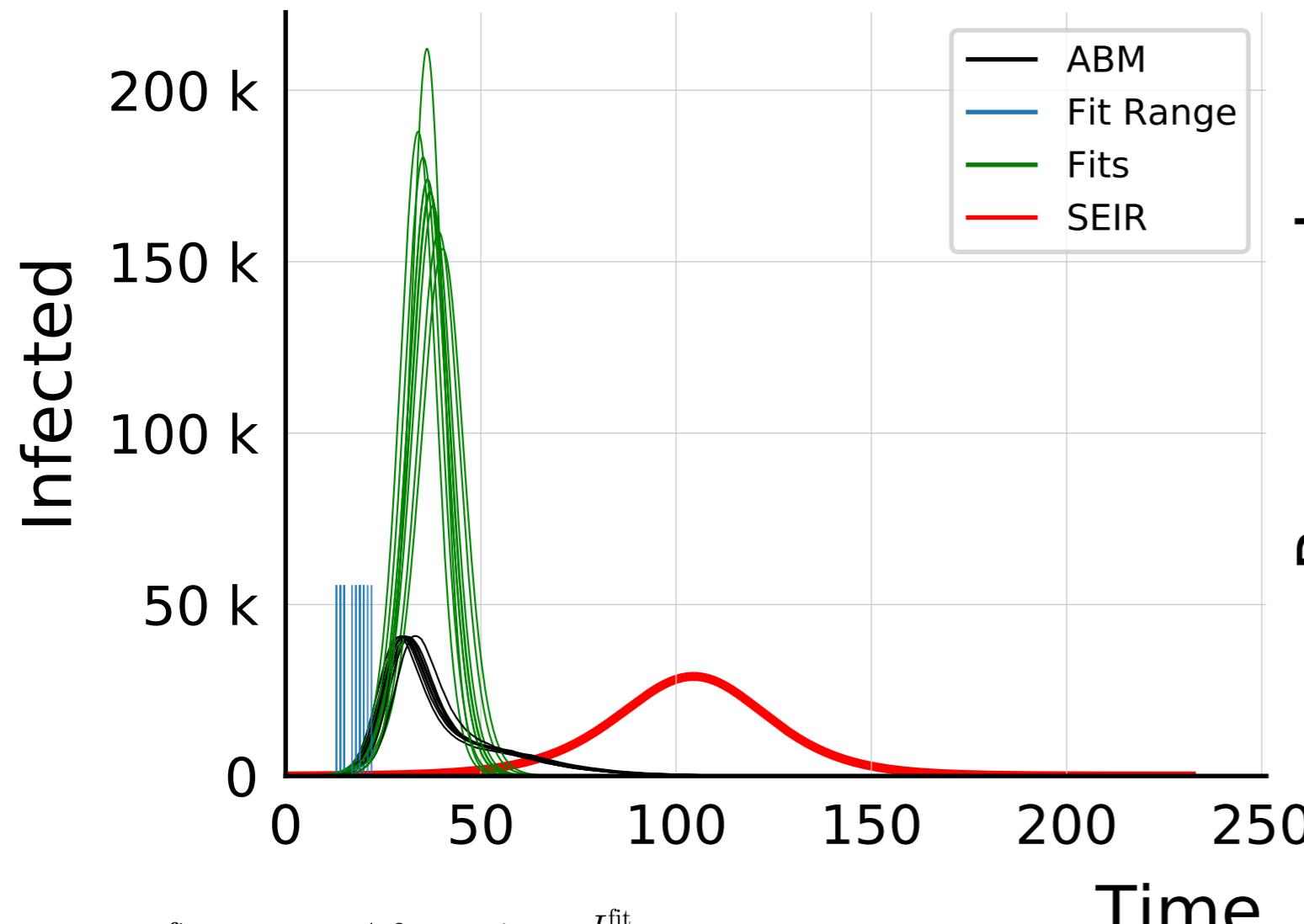


$$I_{\max}^{\text{fit}} = 20^{+1.2}_{-1.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.38 \pm 0.057$$

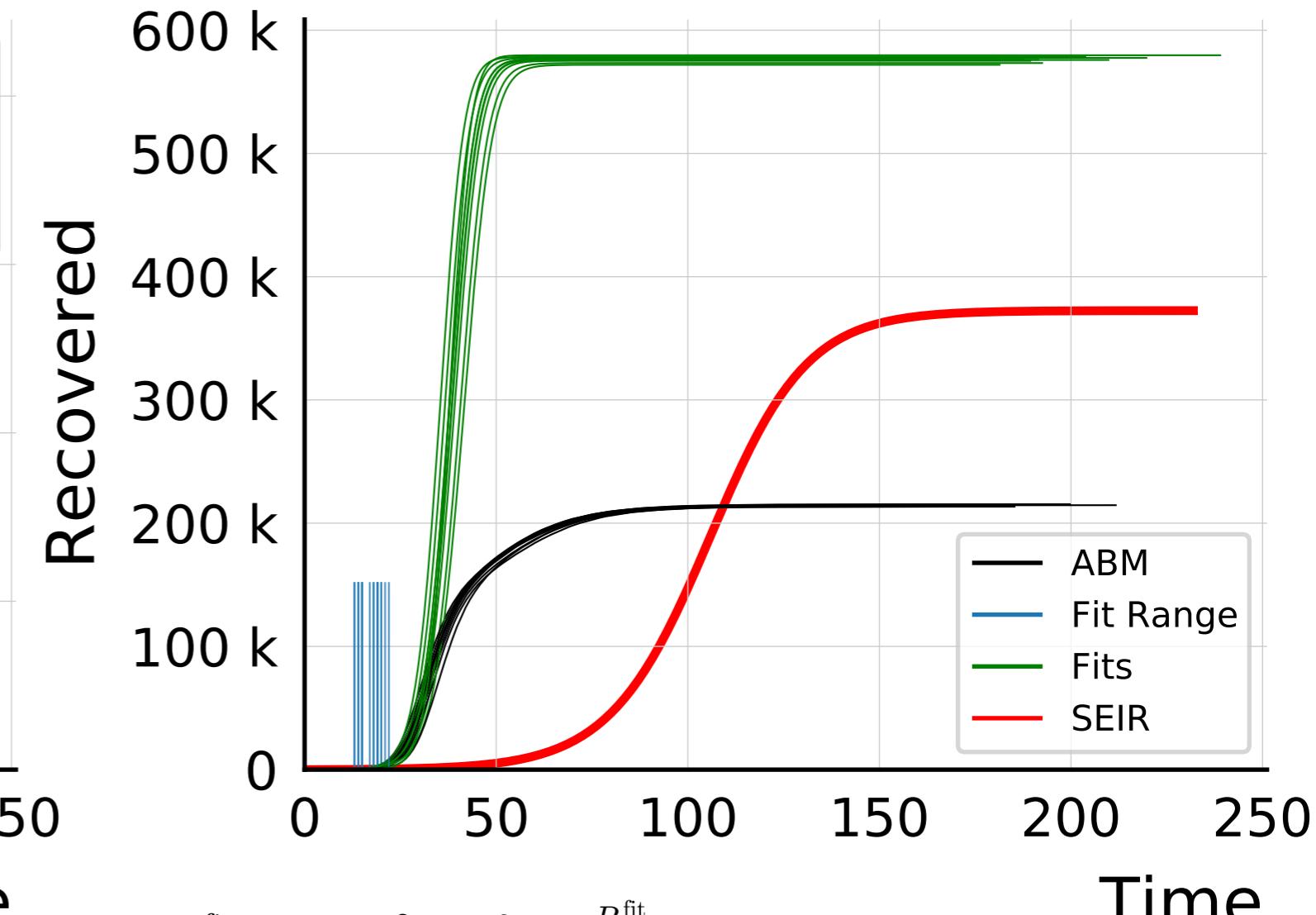


$$R_{\infty}^{\text{fit}} = 5794^{+4}_{-11} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.821 \pm 0.0014$$

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

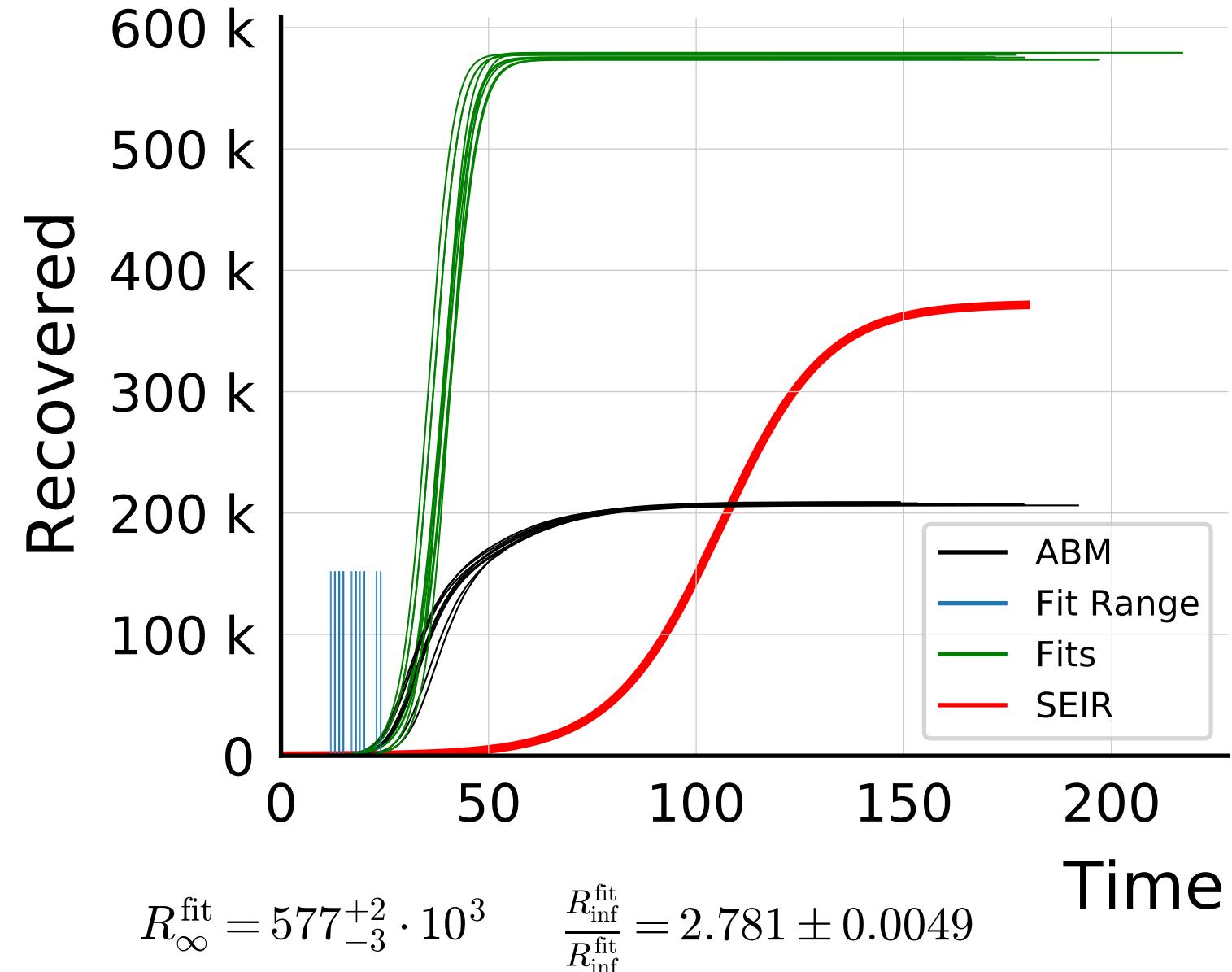
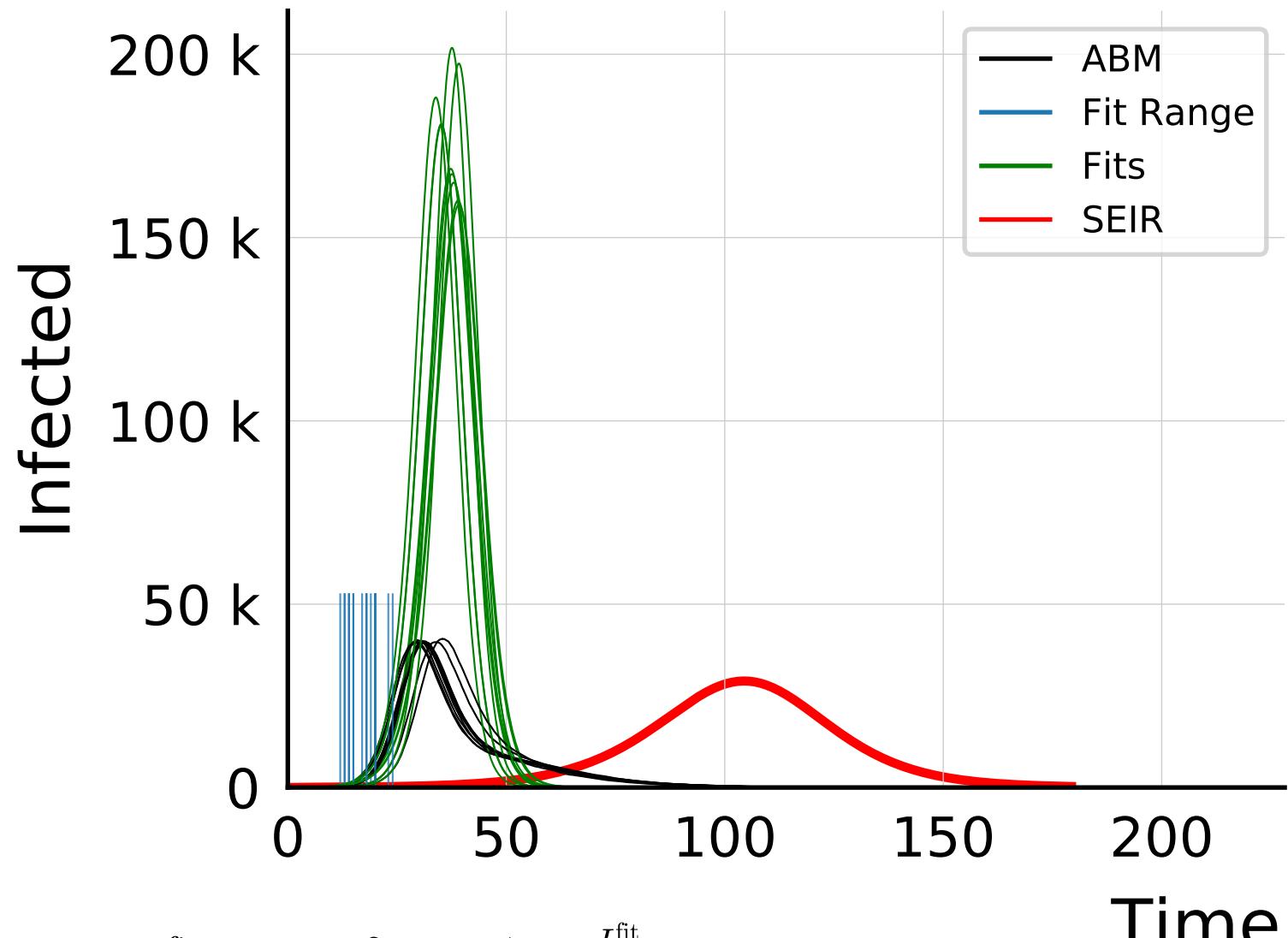


$$I_{\max}^{\text{fit}} = 17^{+1.6}_{-1.3} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.3 \pm 0.12$$

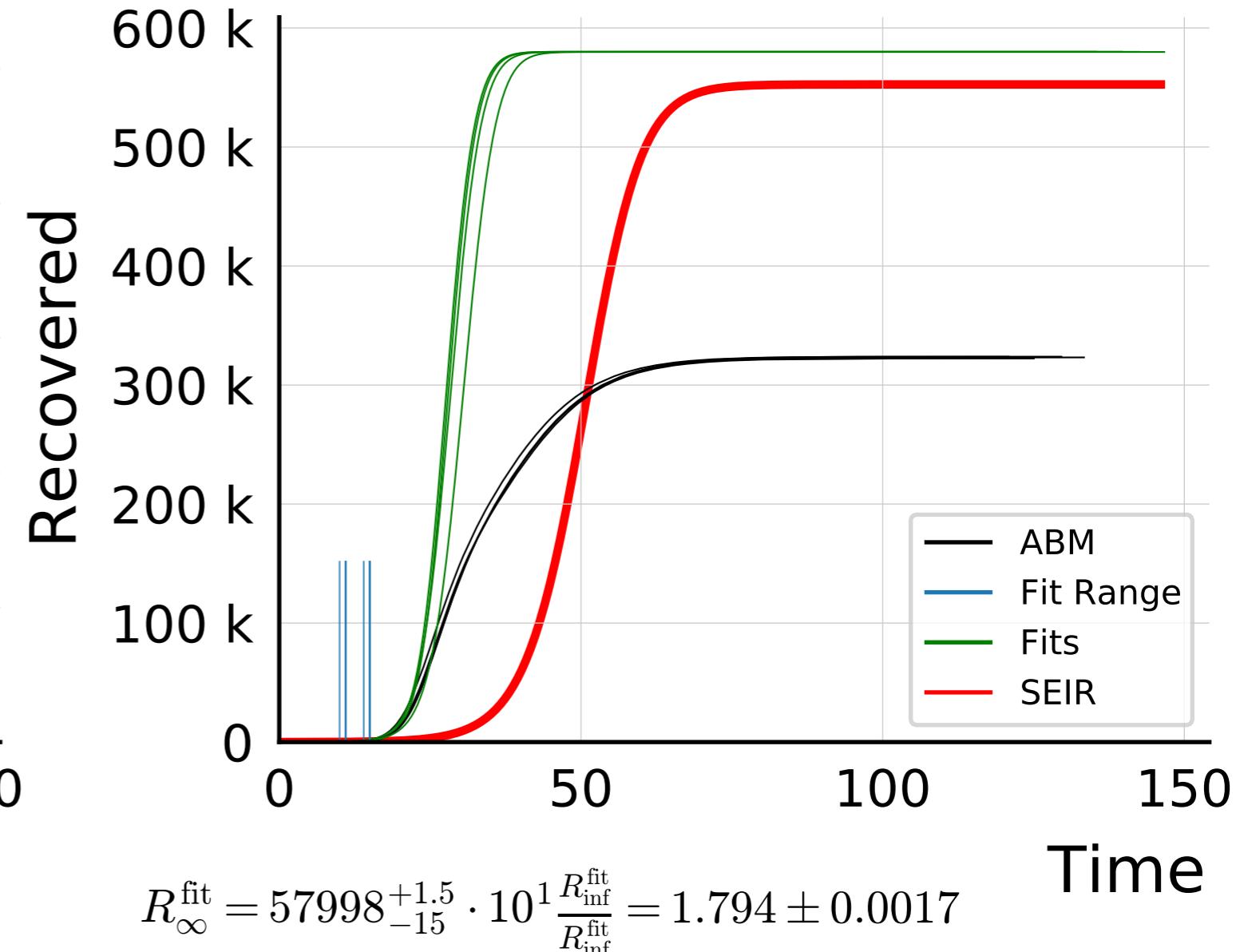
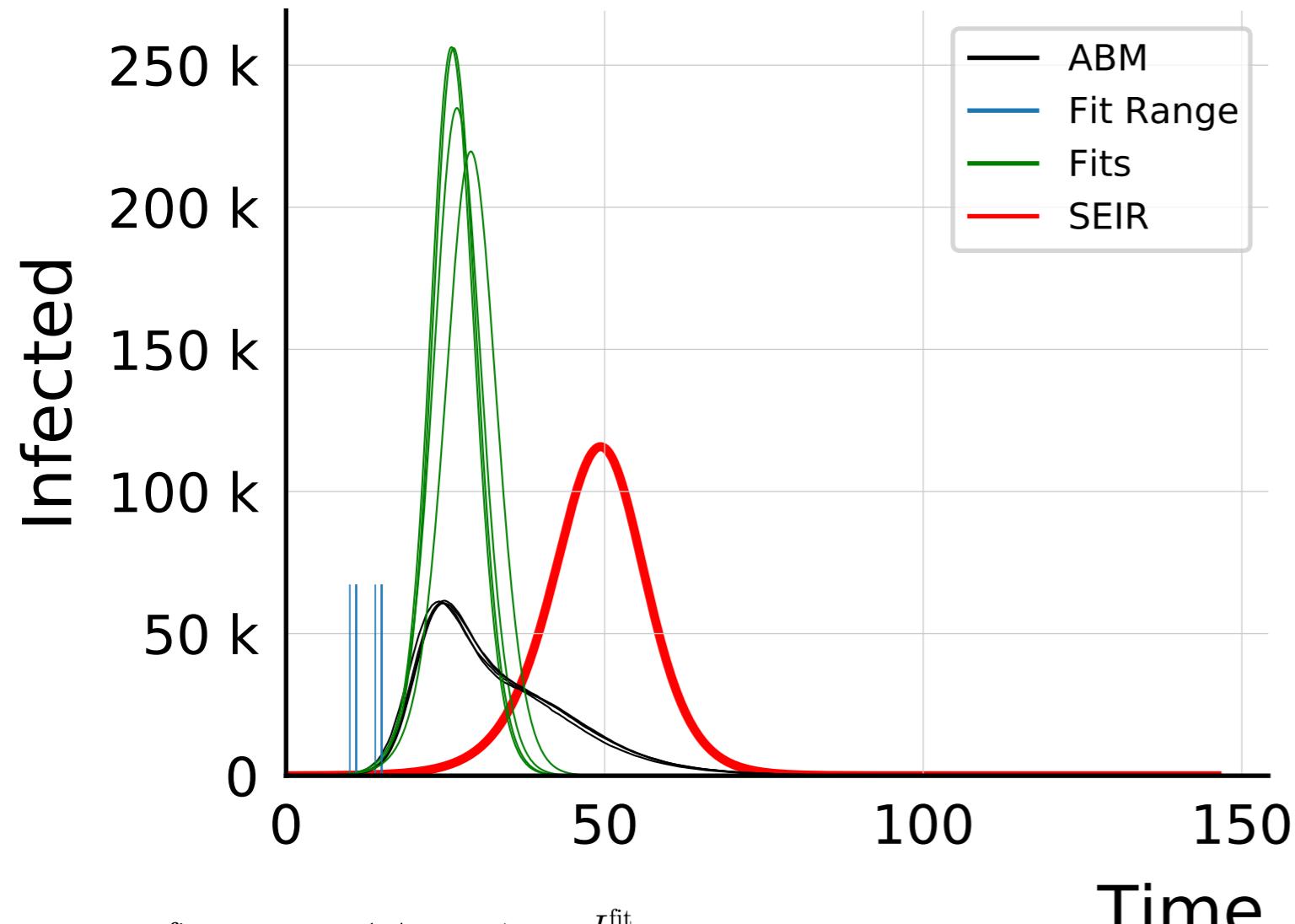


$$R_{\infty}^{\text{fit}} = 576^{+2}_{-3} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.688 \pm 0.0032$$

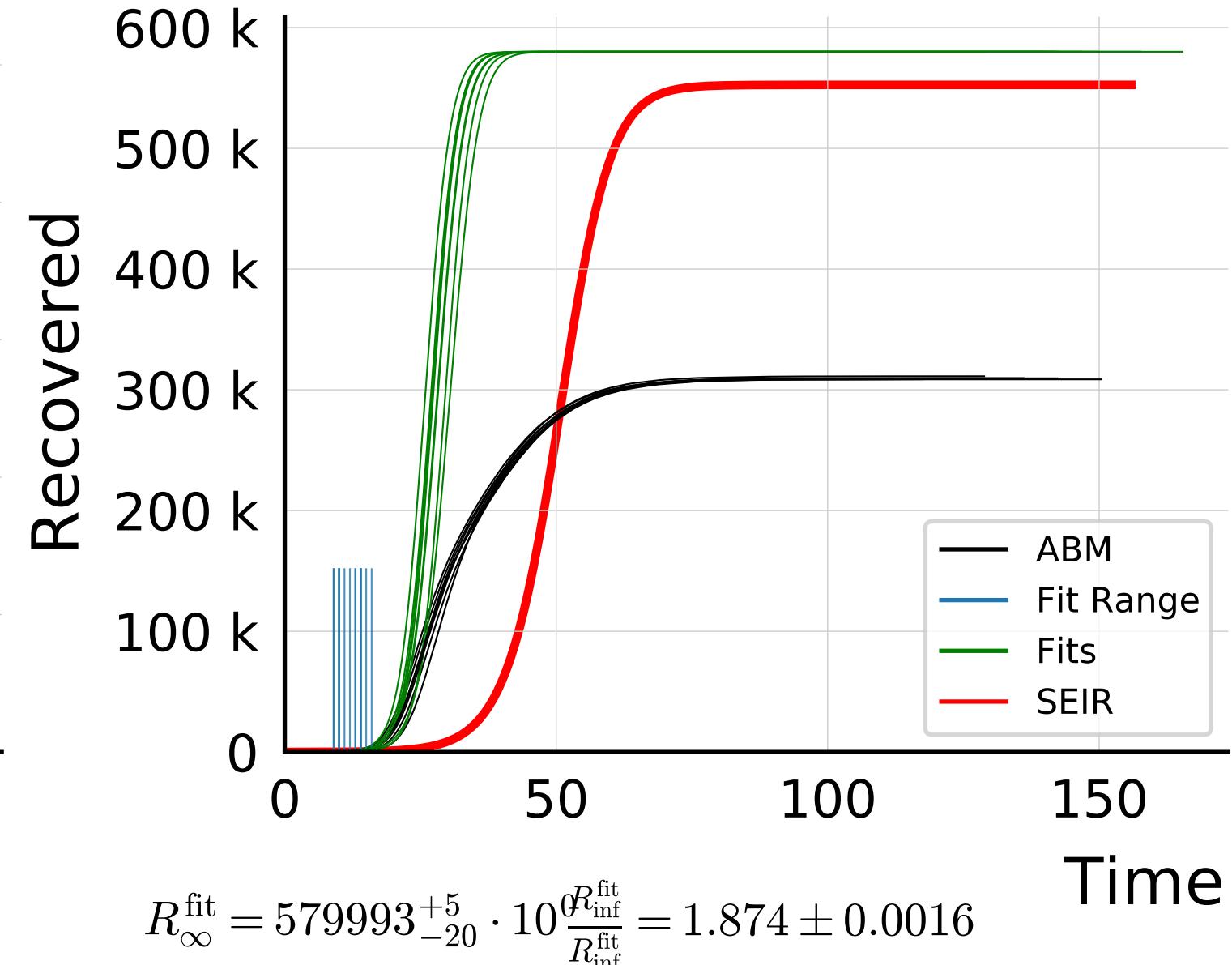
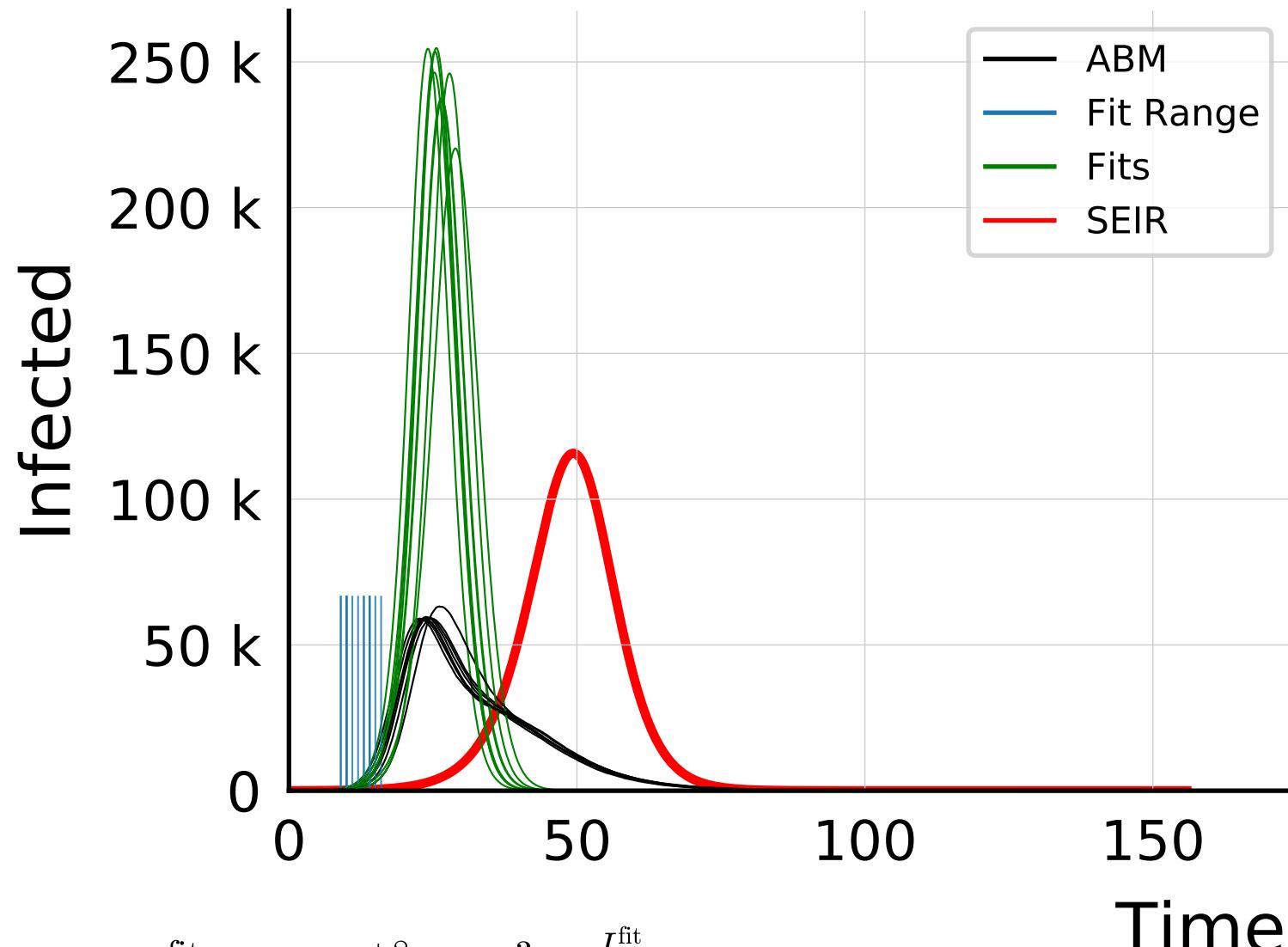
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



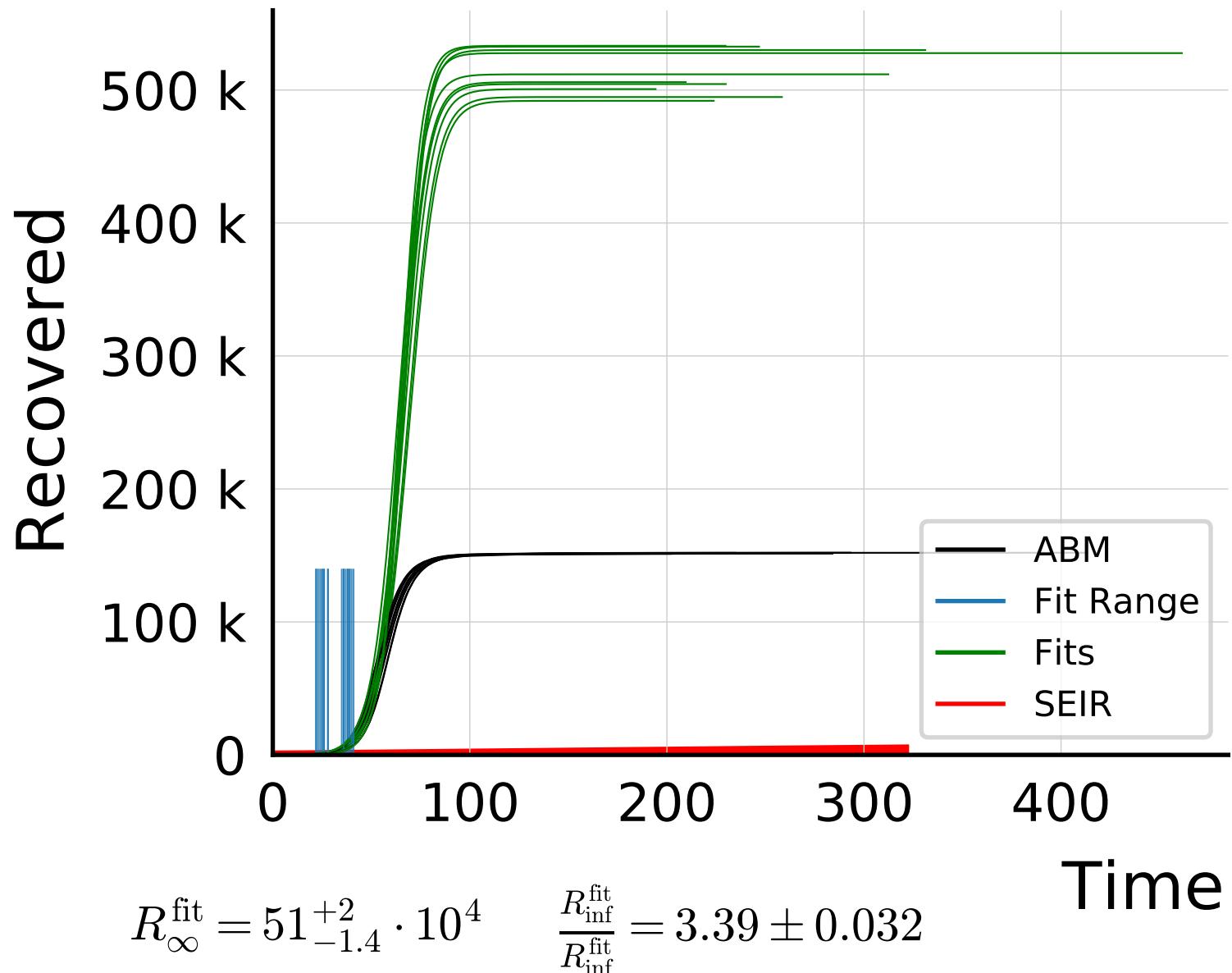
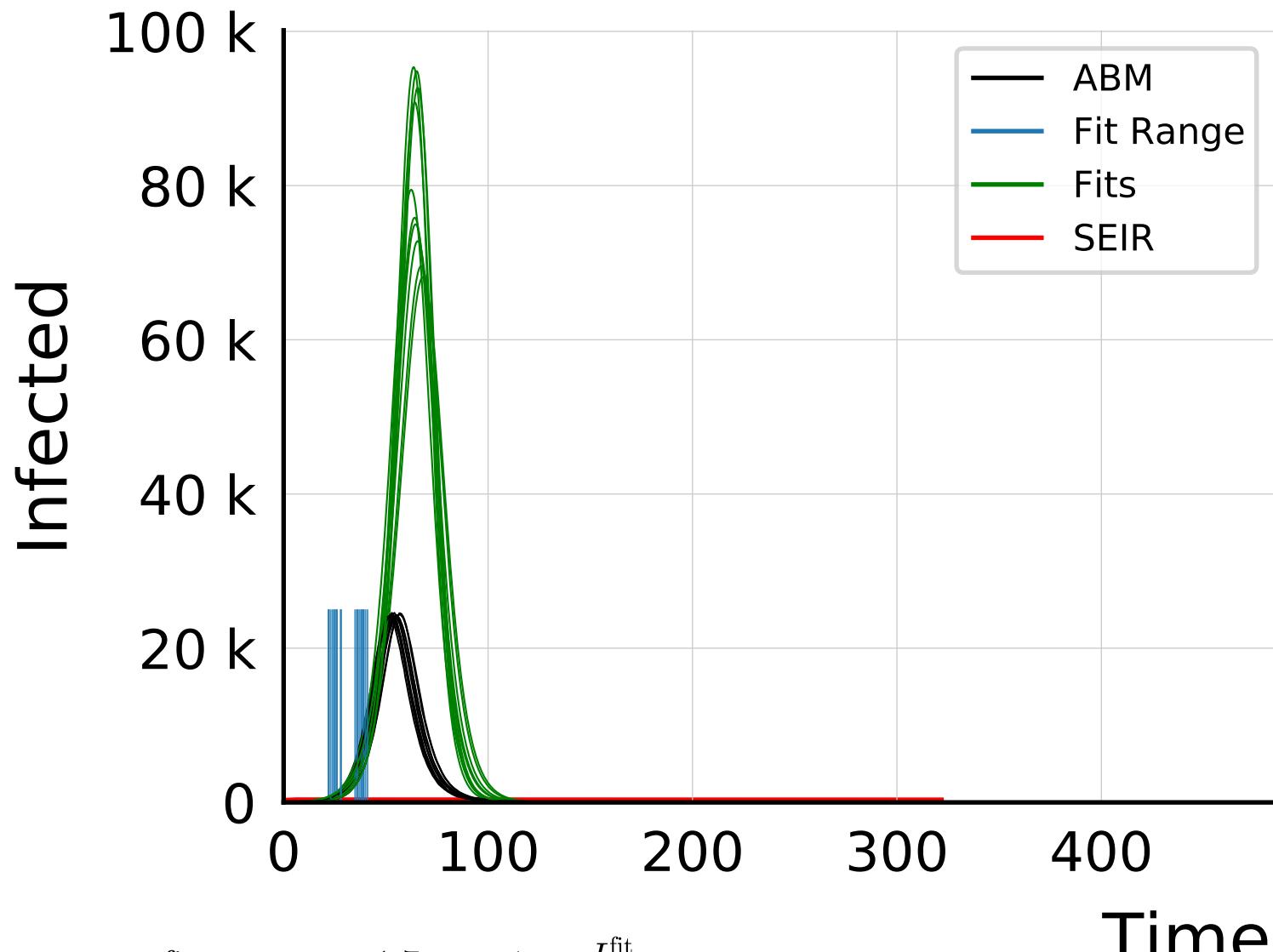
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #4



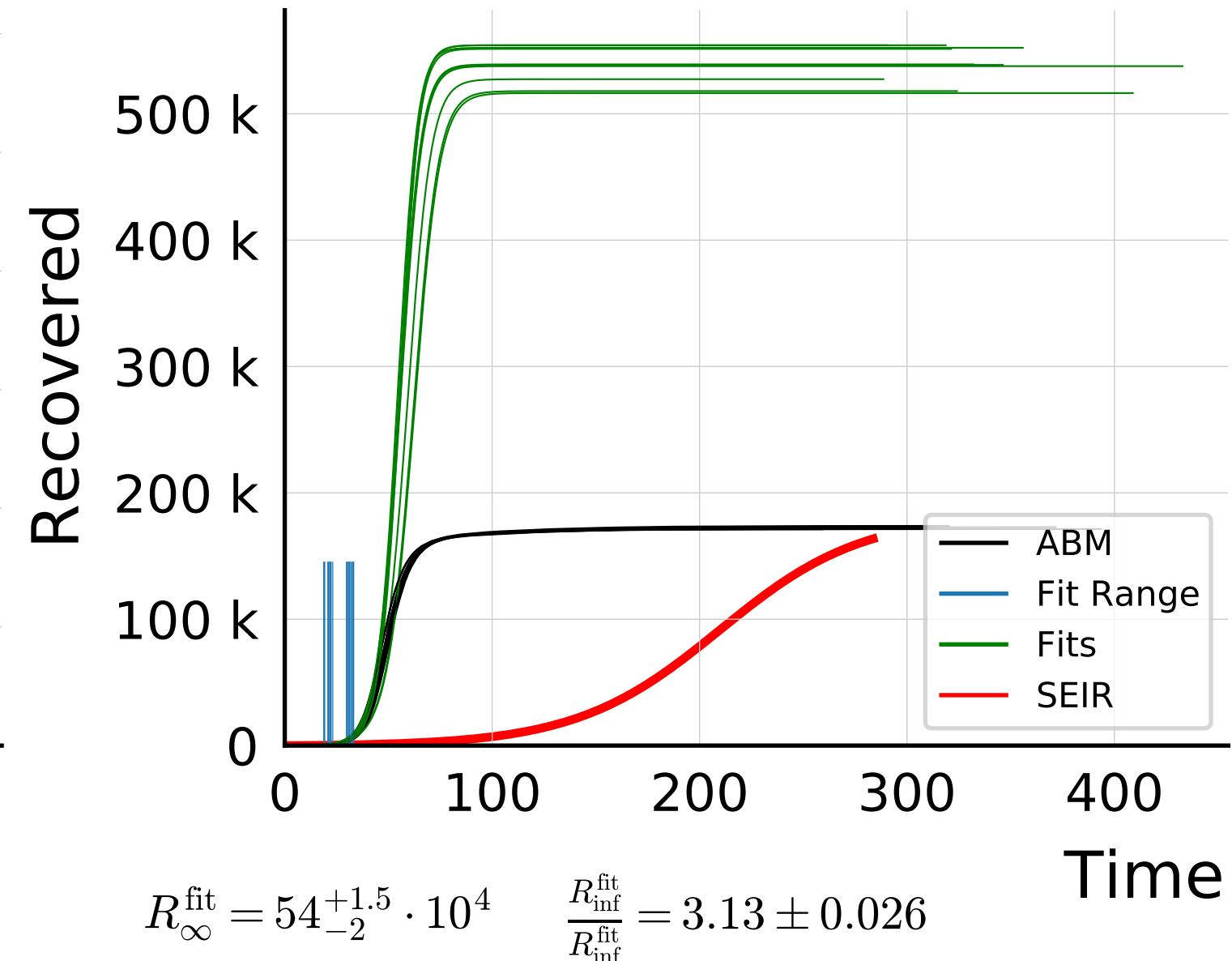
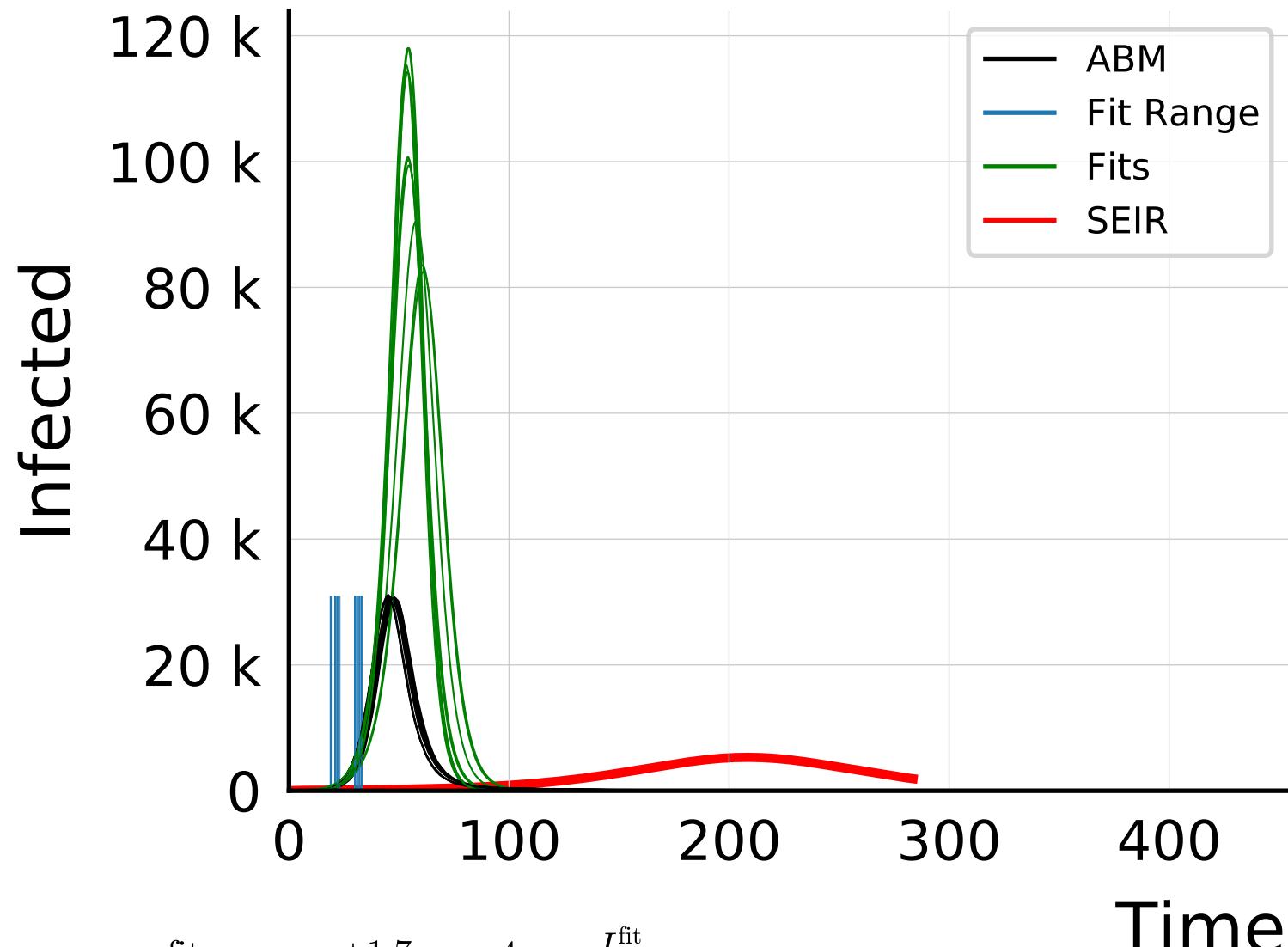
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #8



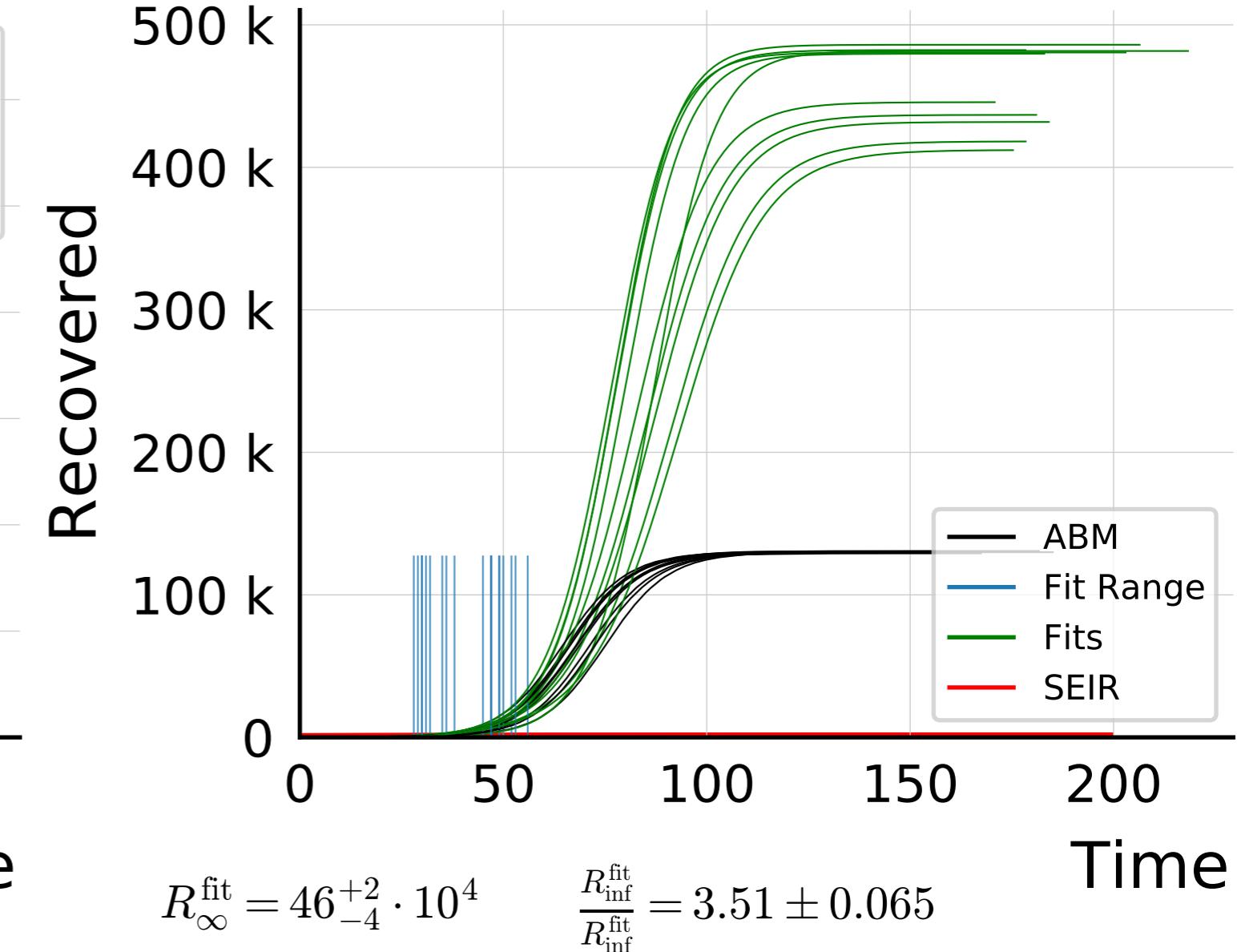
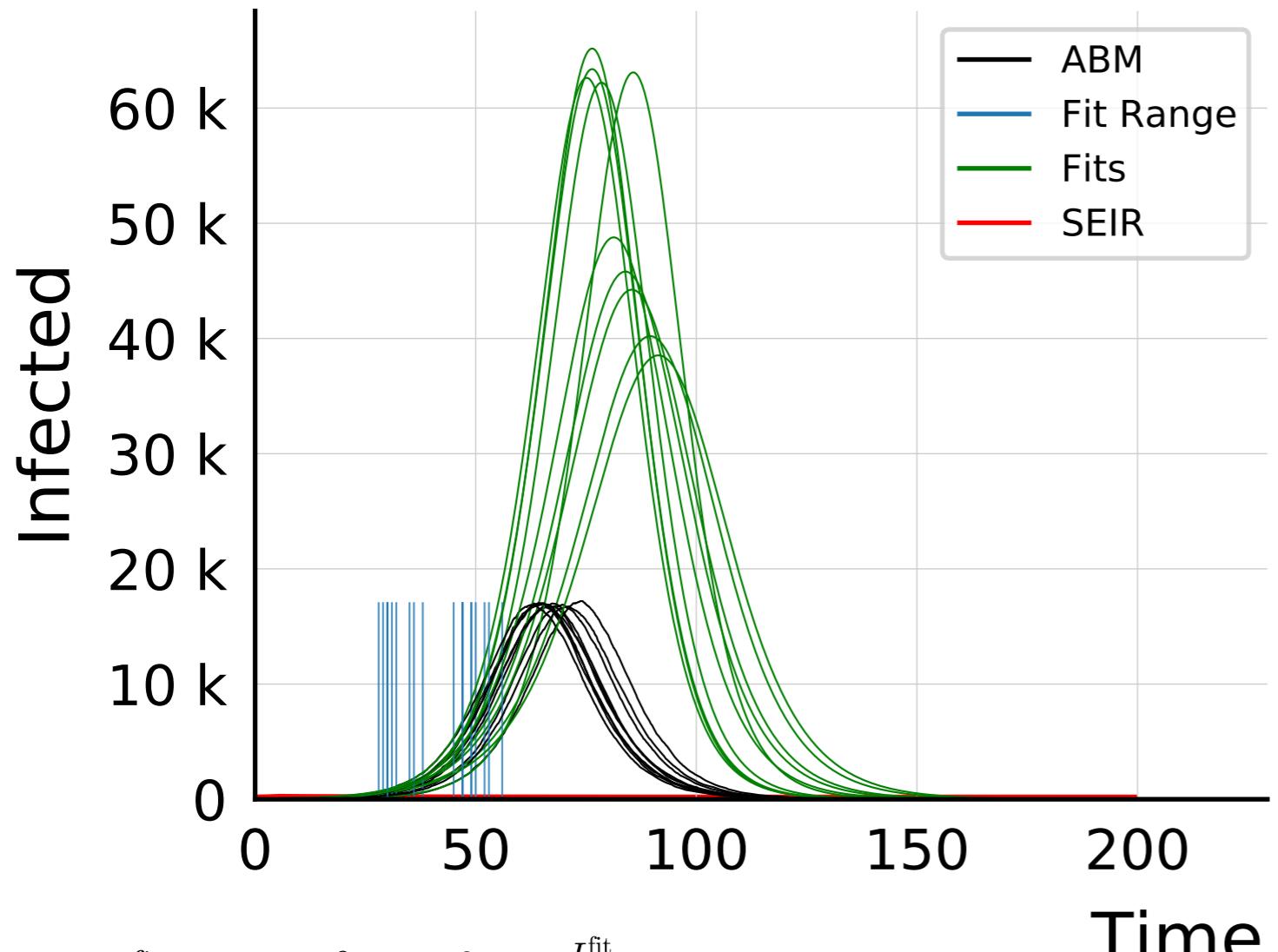
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 25.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



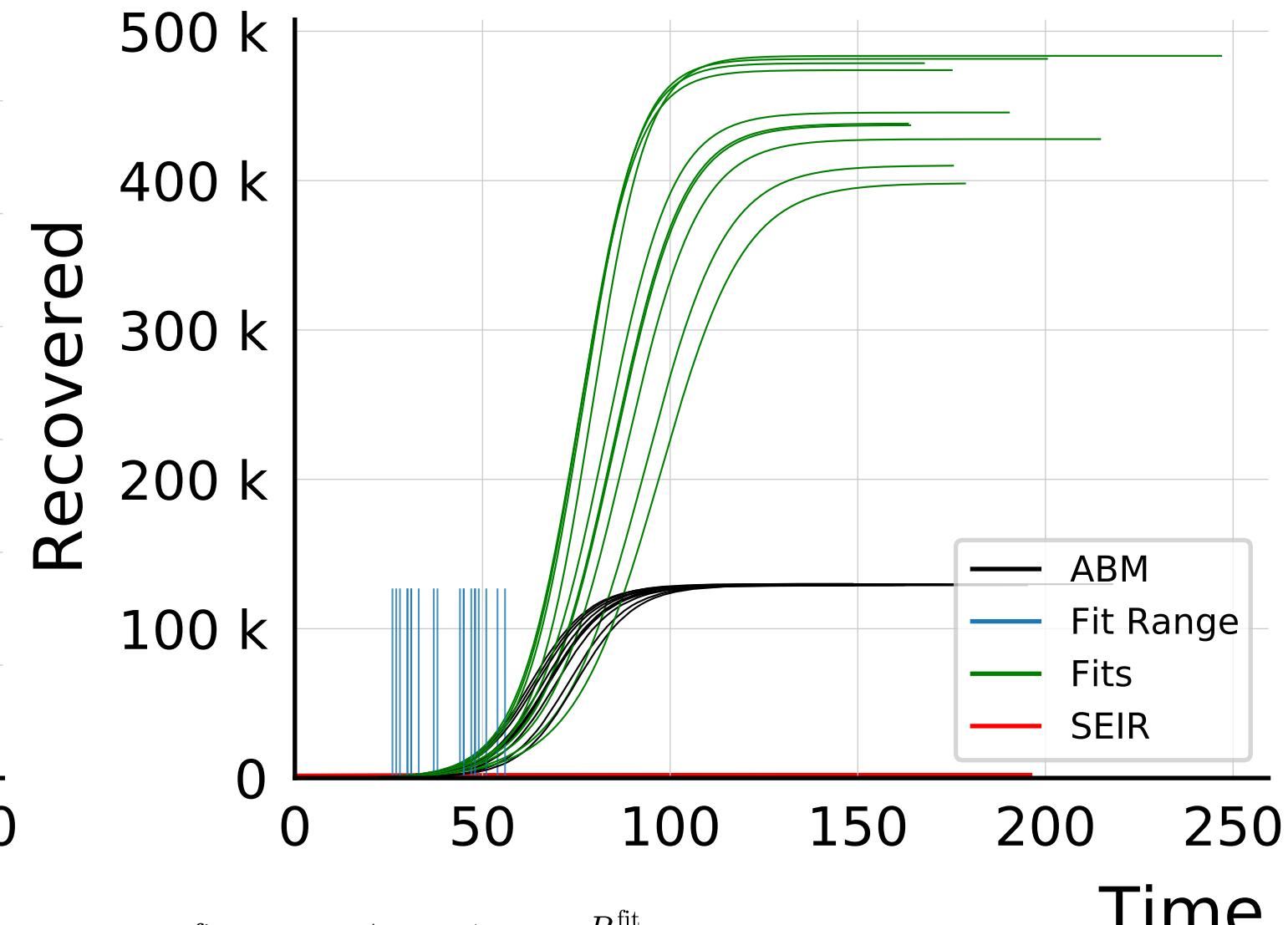
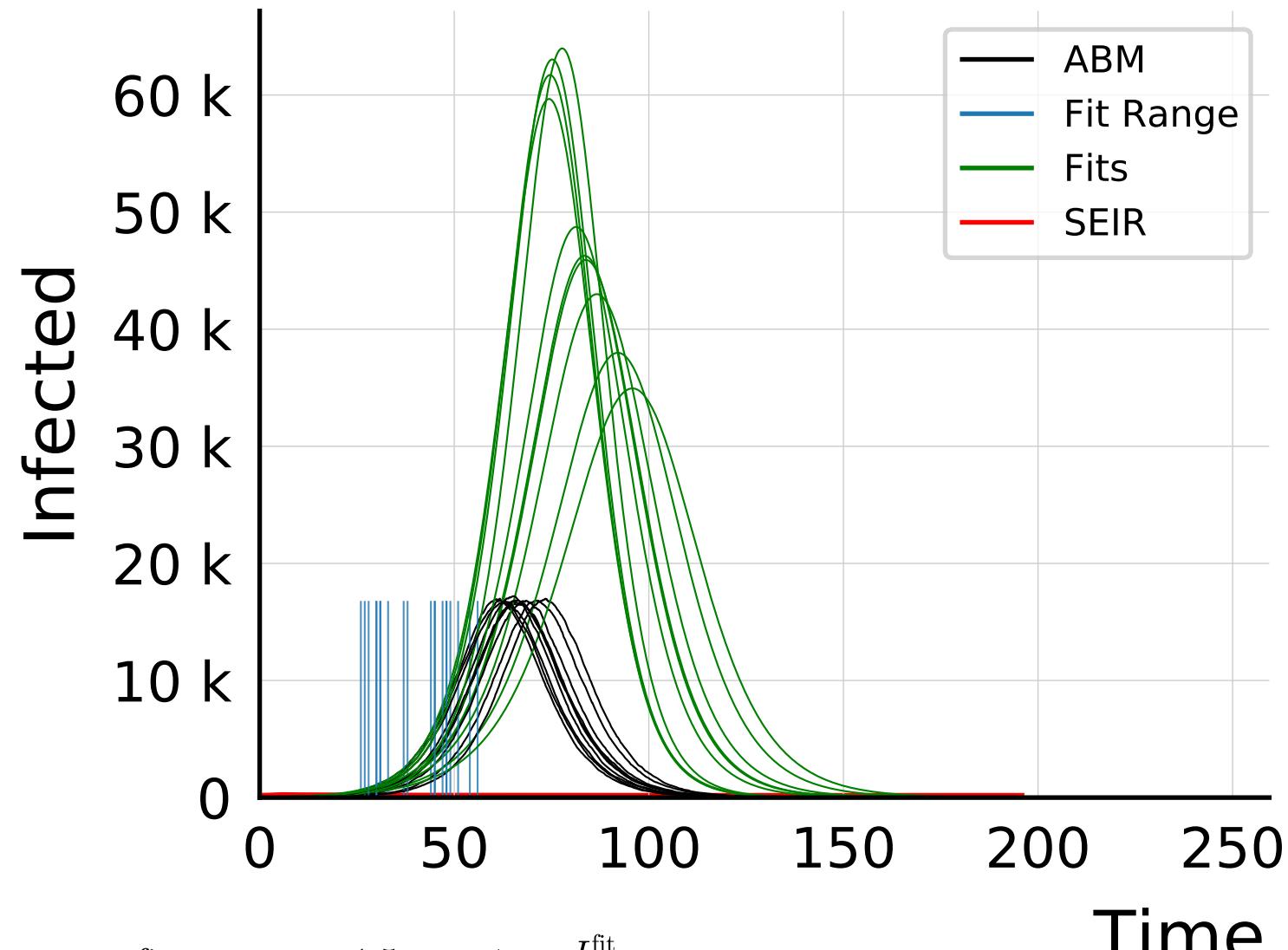
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



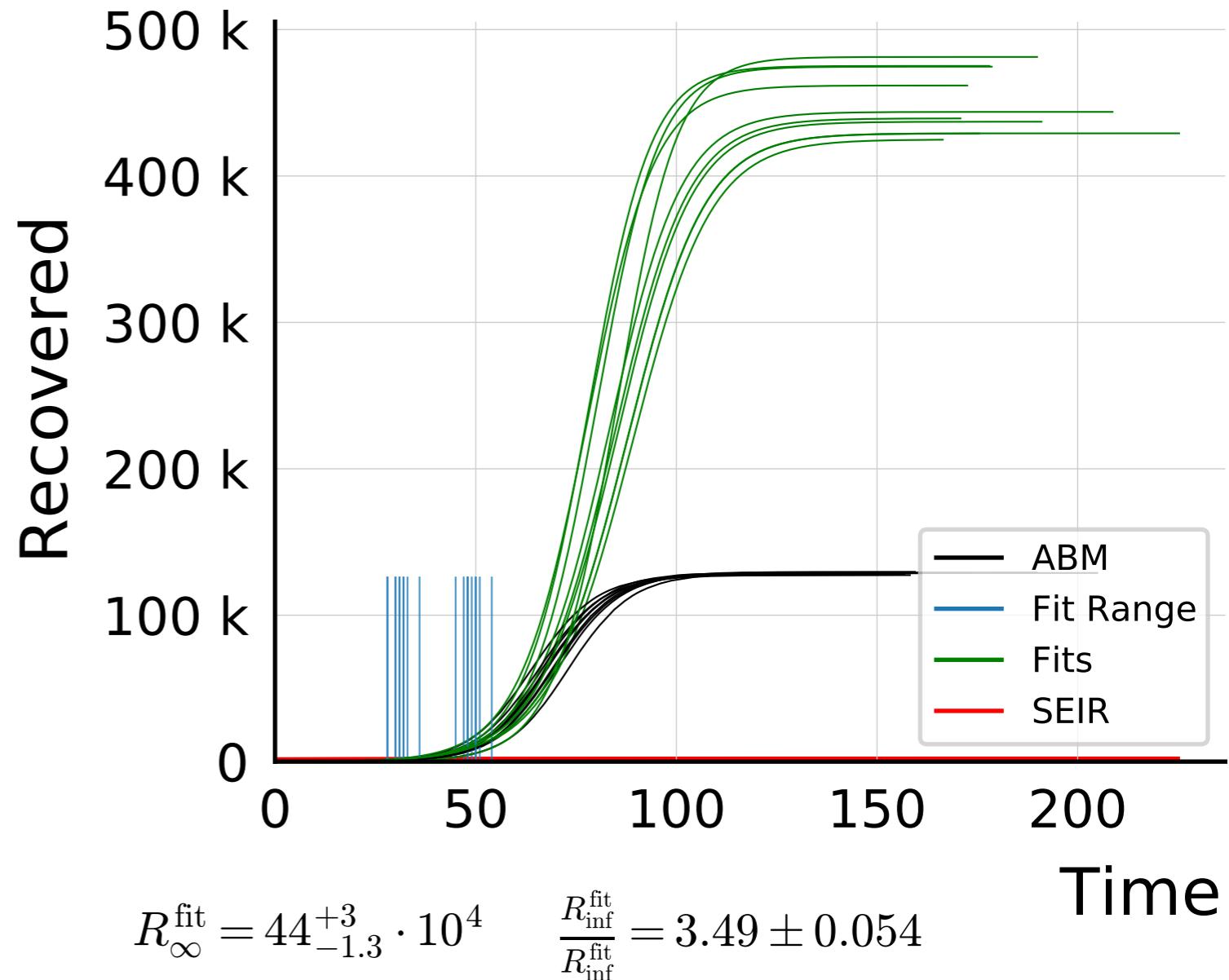
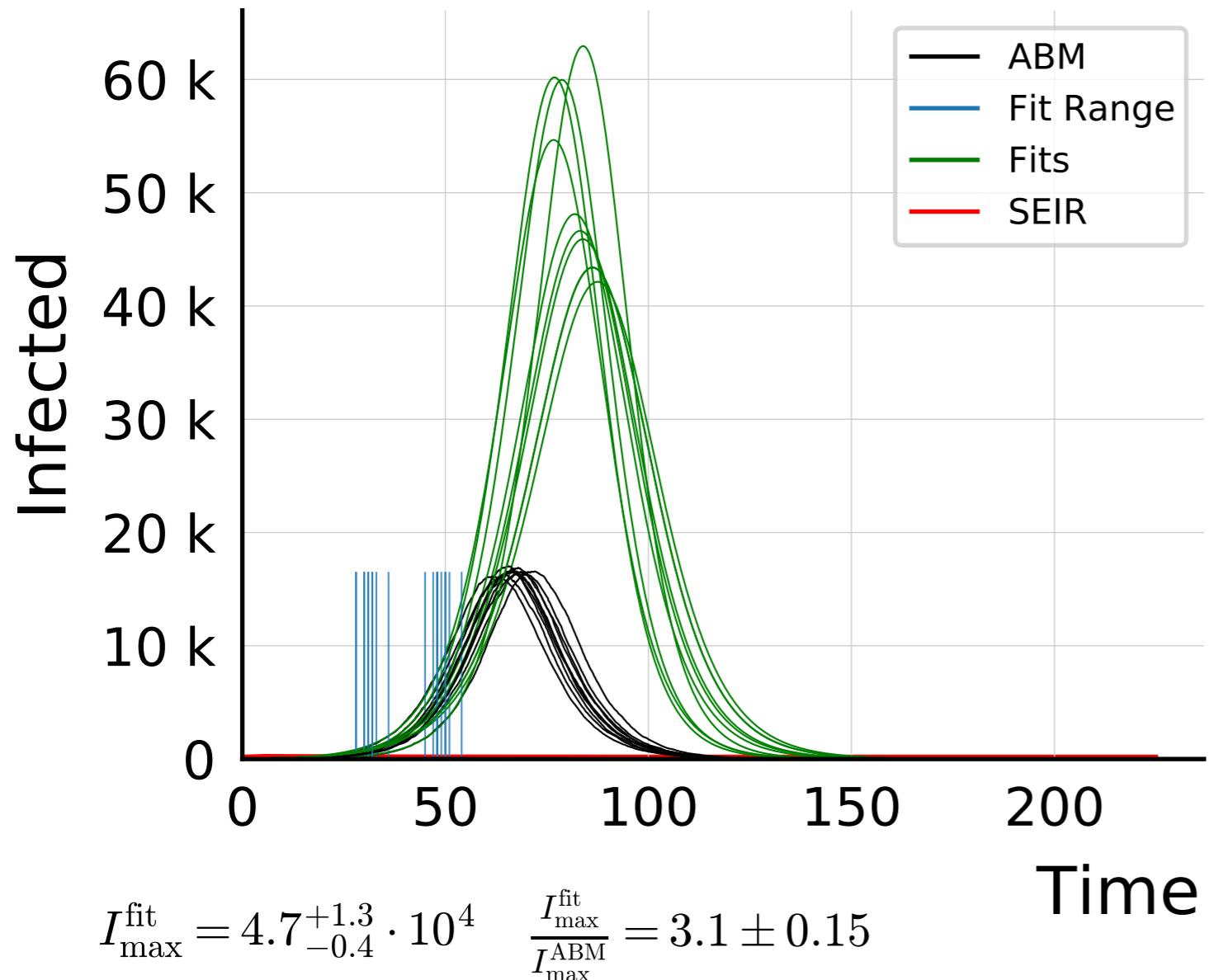
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



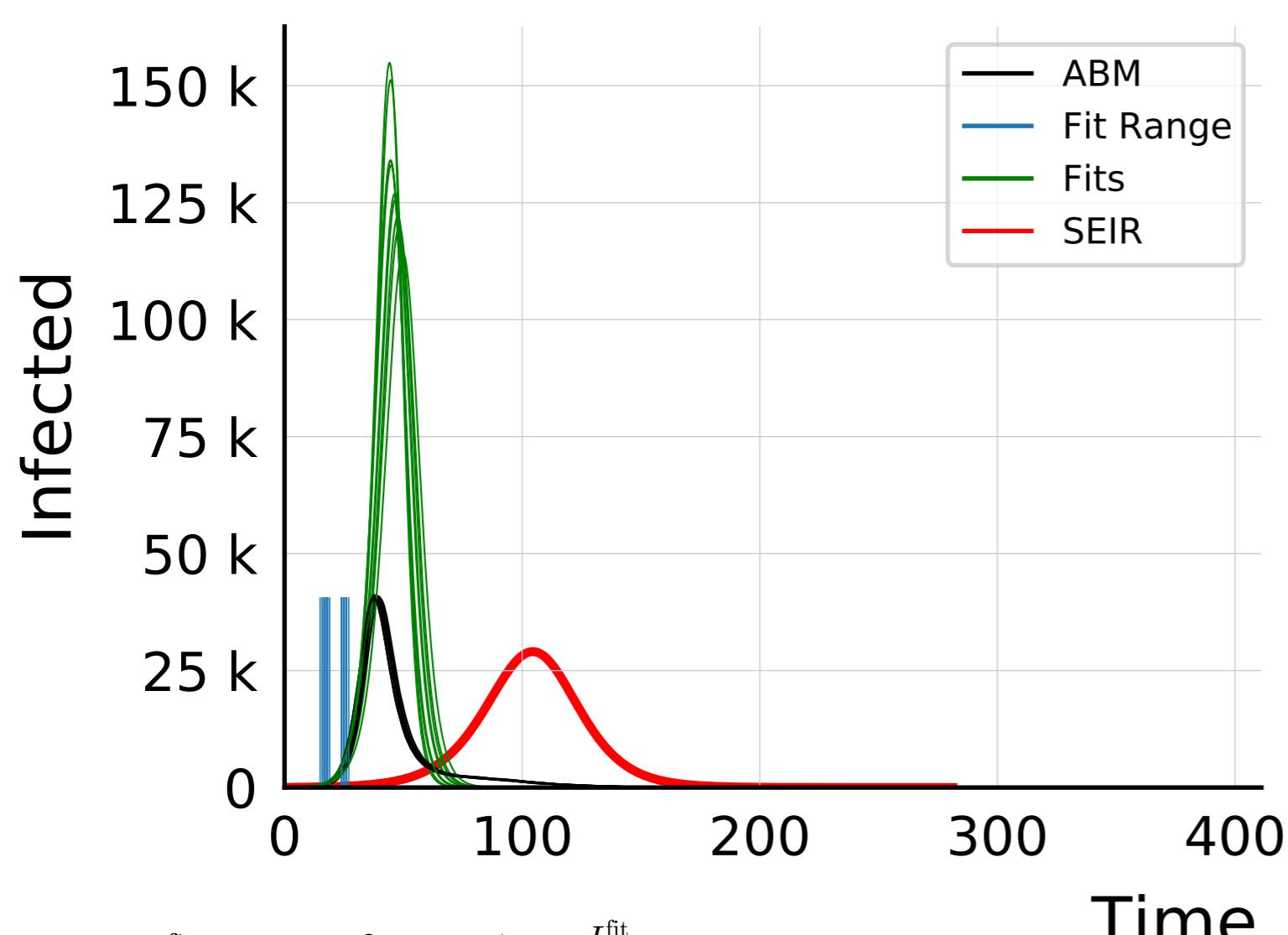
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



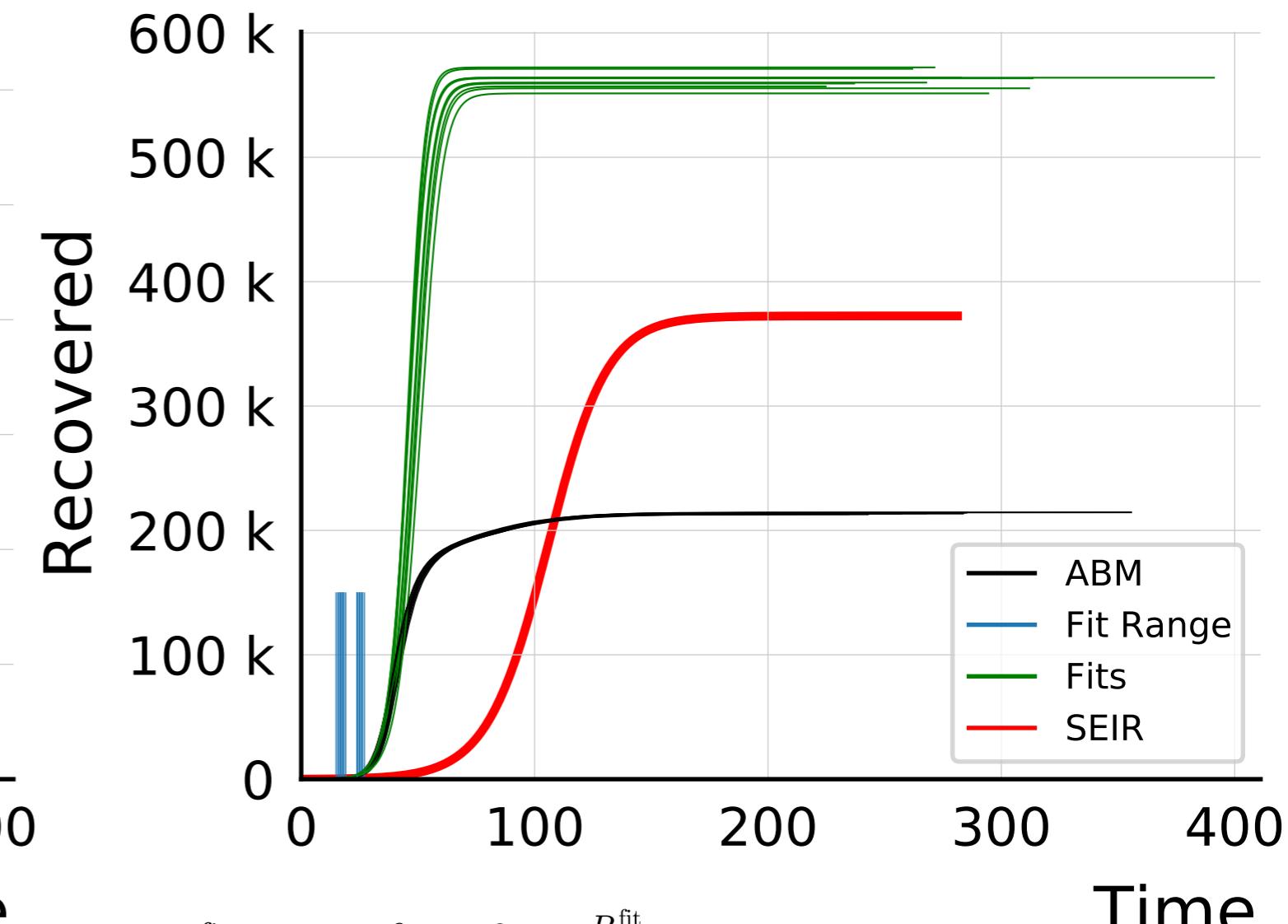
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

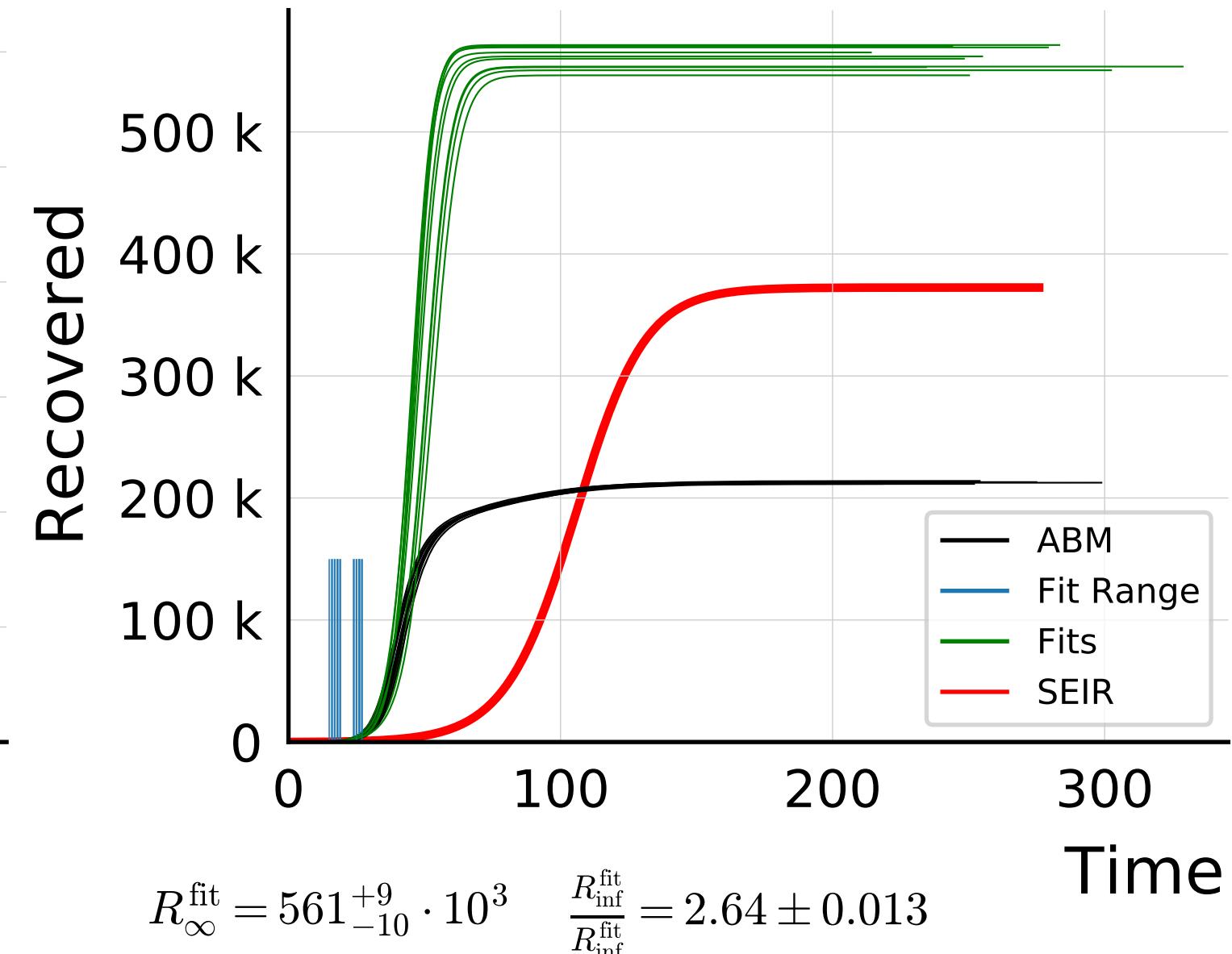
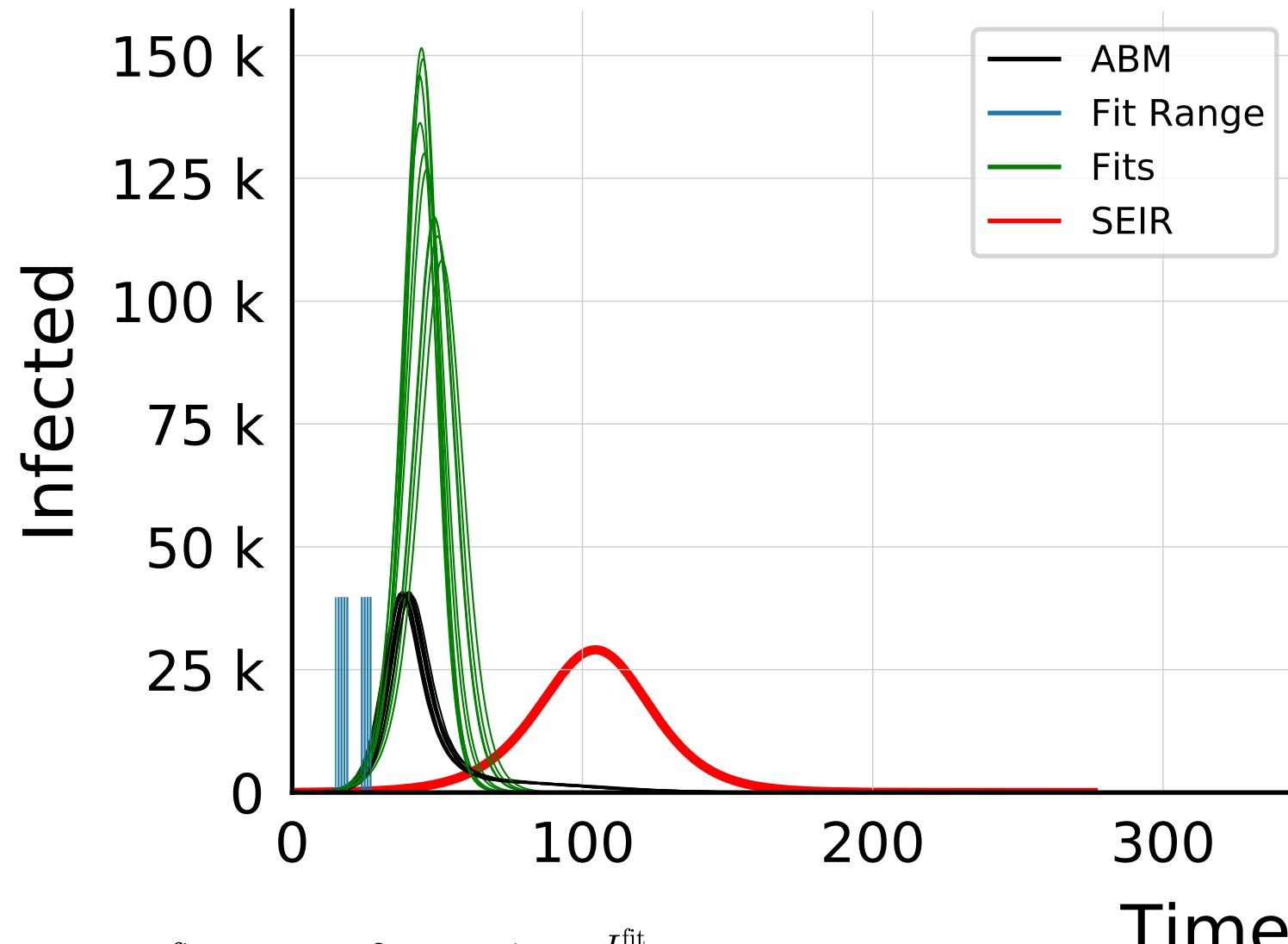


$$I_{\max}^{\text{fit}} = 13_{-1.0}^{+2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.23 \pm 0.094$$

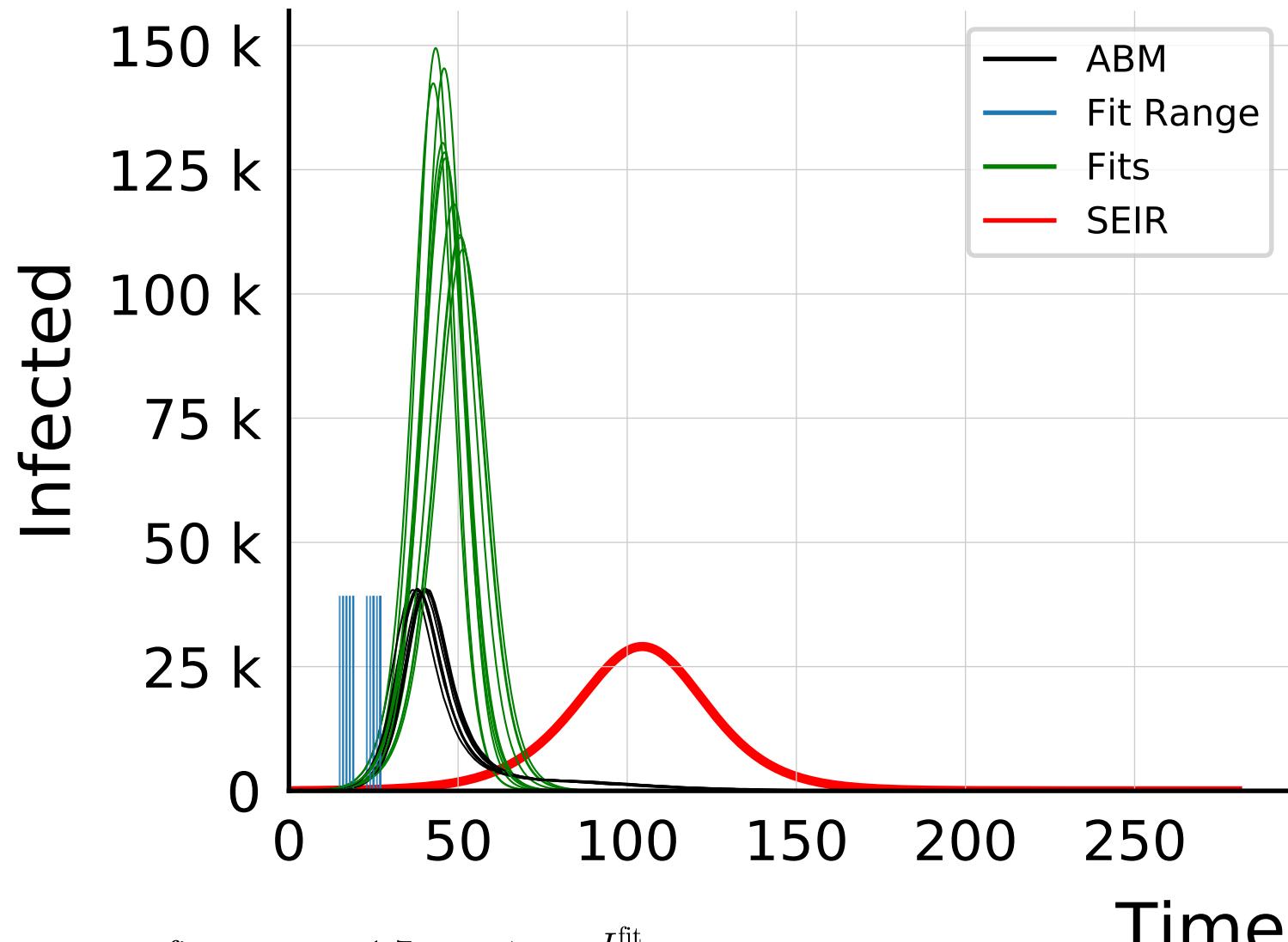


$$R_{\infty}^{\text{fit}} = 562_{-6}^{+9} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.63 \pm 0.010$$

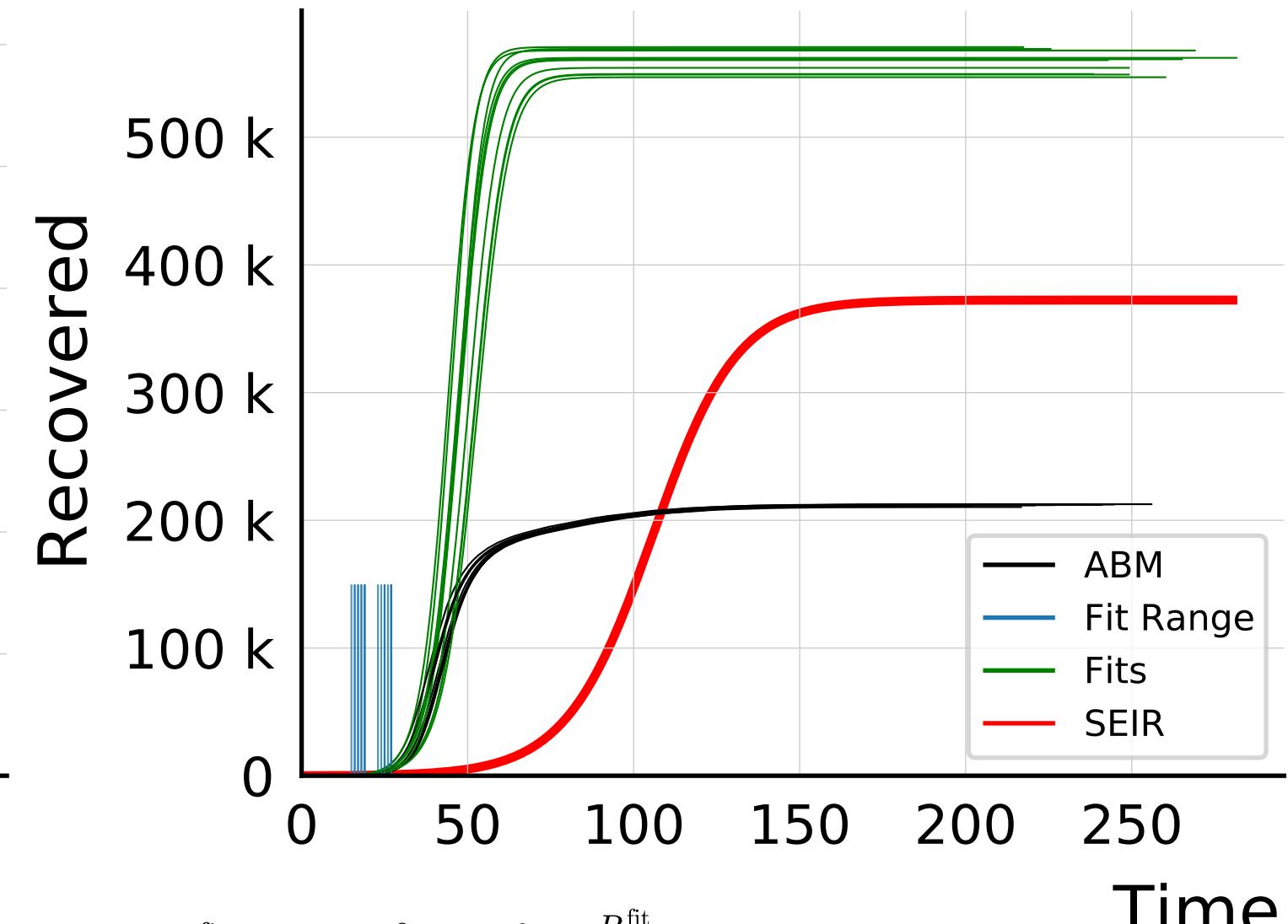
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

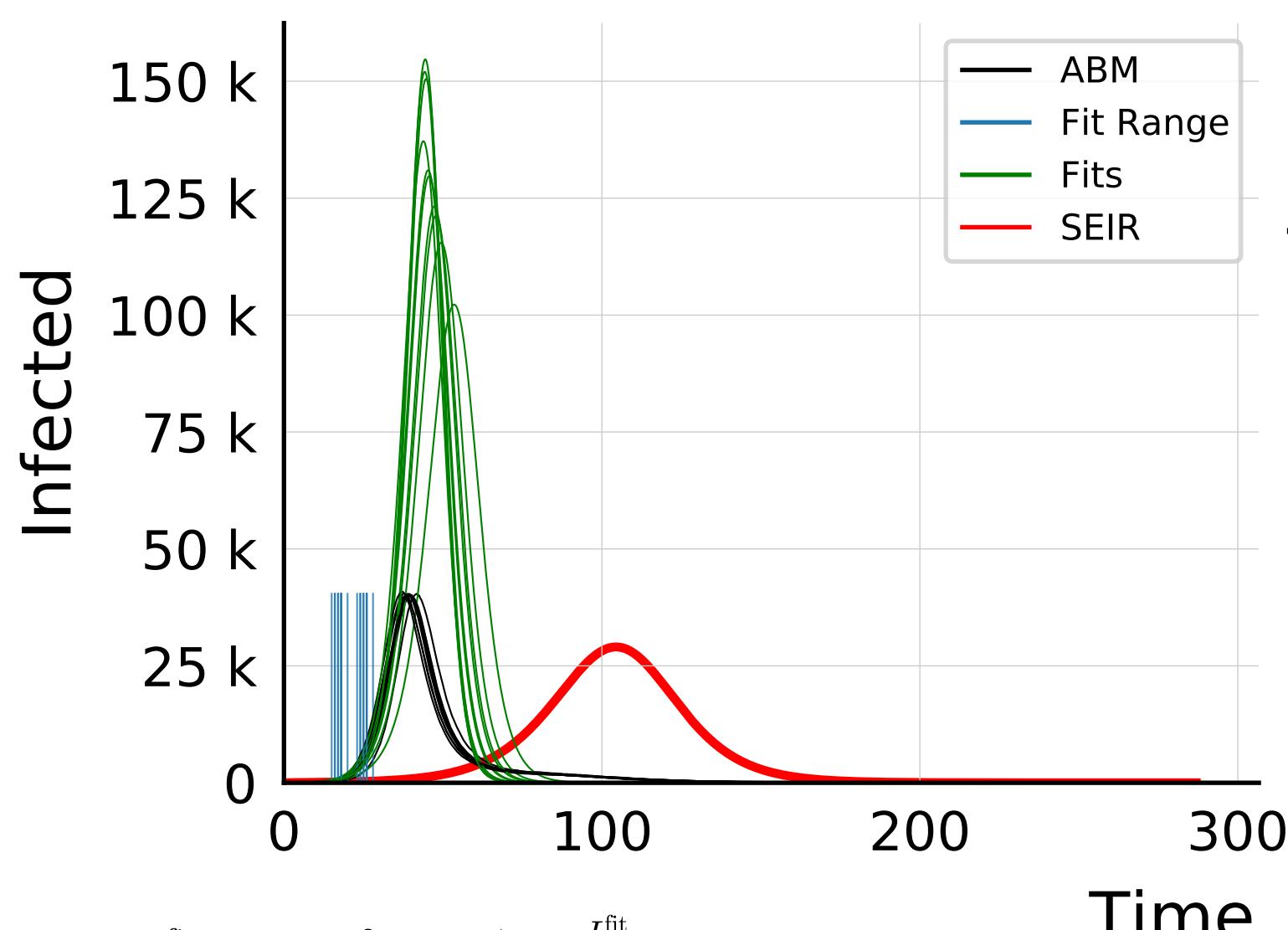


$$I_{\max}^{\text{fit}} = 13^{+1.7}_{-1.7} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.1 \pm 0.11$$

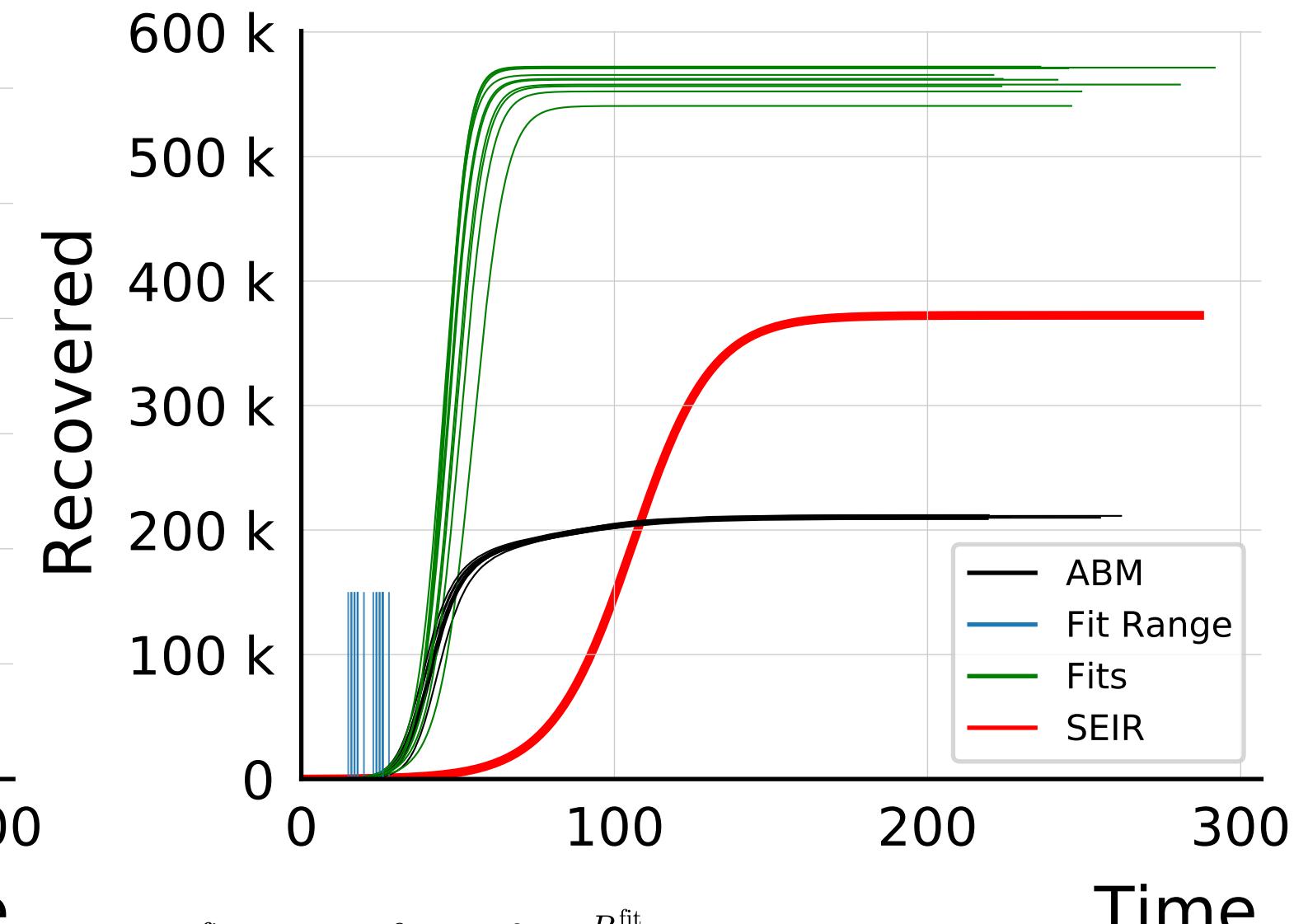


$$R_{\infty}^{\text{fit}} = 561^{+8}_{-12} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.64 \pm 0.012$$

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

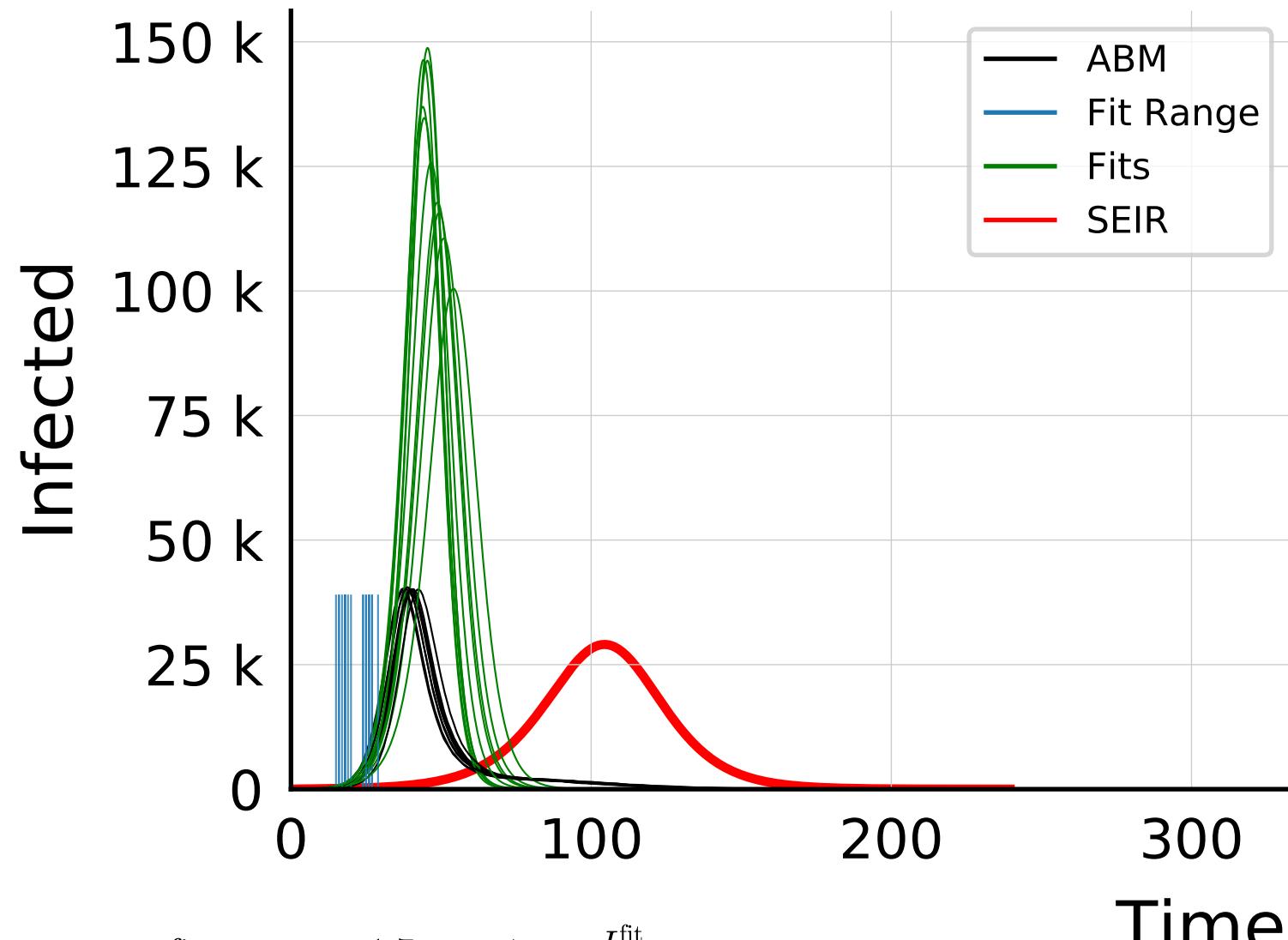


$$I_{\max}^{\text{fit}} = 13_{-1.5}^{+2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.13$$

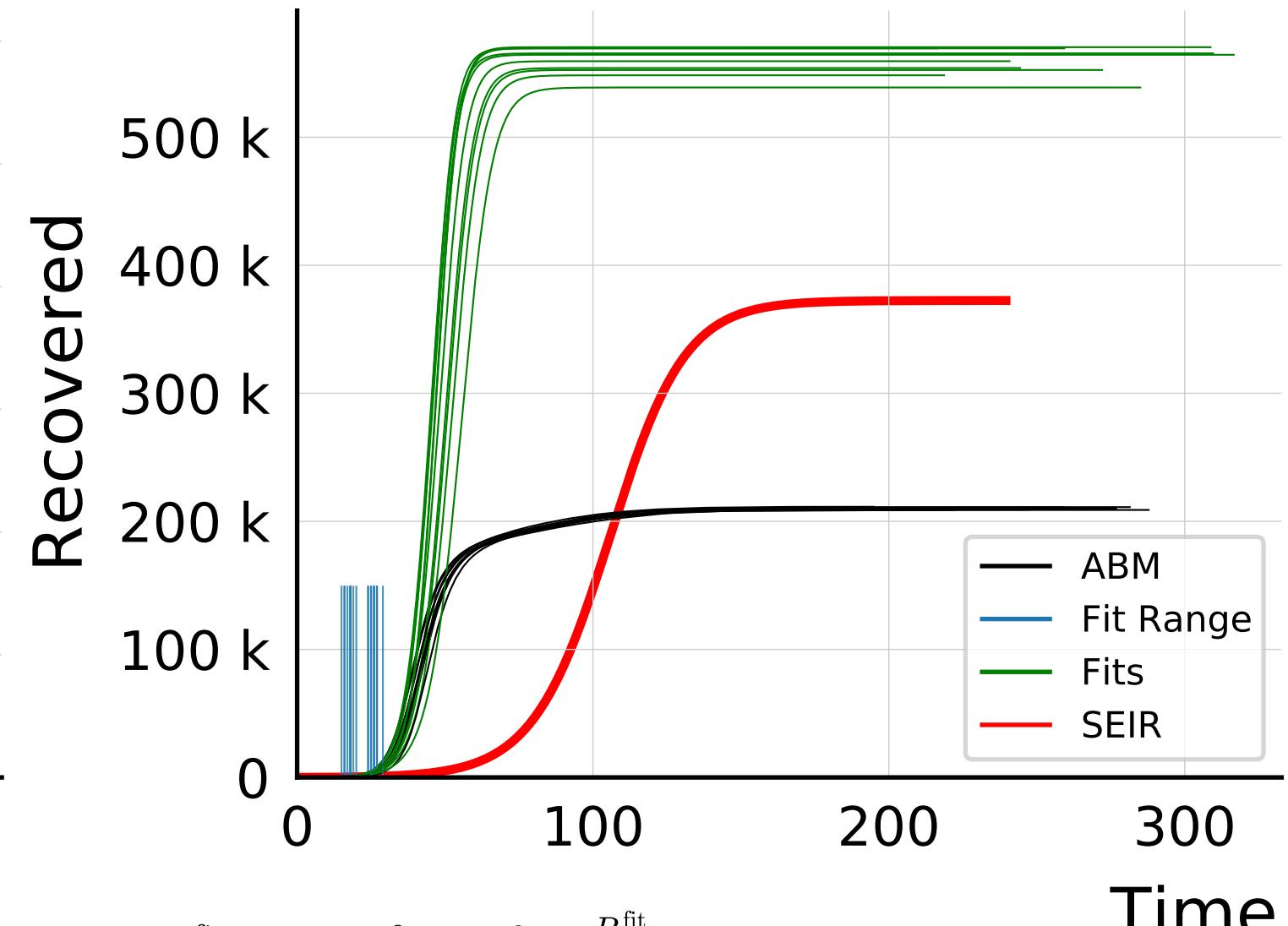


$$R_{\infty}^{\text{fit}} = 562_{-10}^{+9} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.66 \pm 0.014$$

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

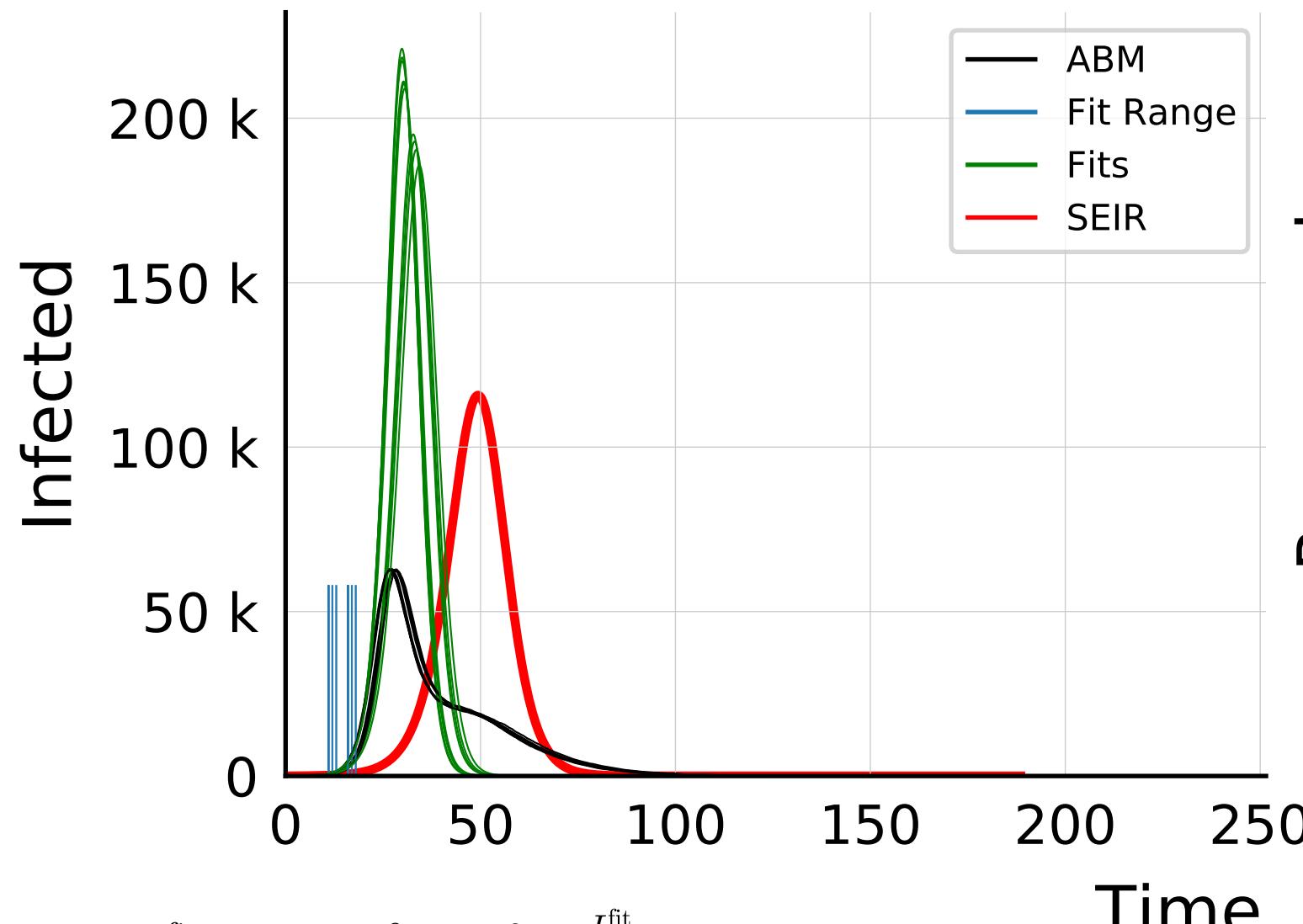


$$I_{\max}^{\text{fit}} = 13^{+1.7}_{-2.0} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.2 \pm 0.12$$

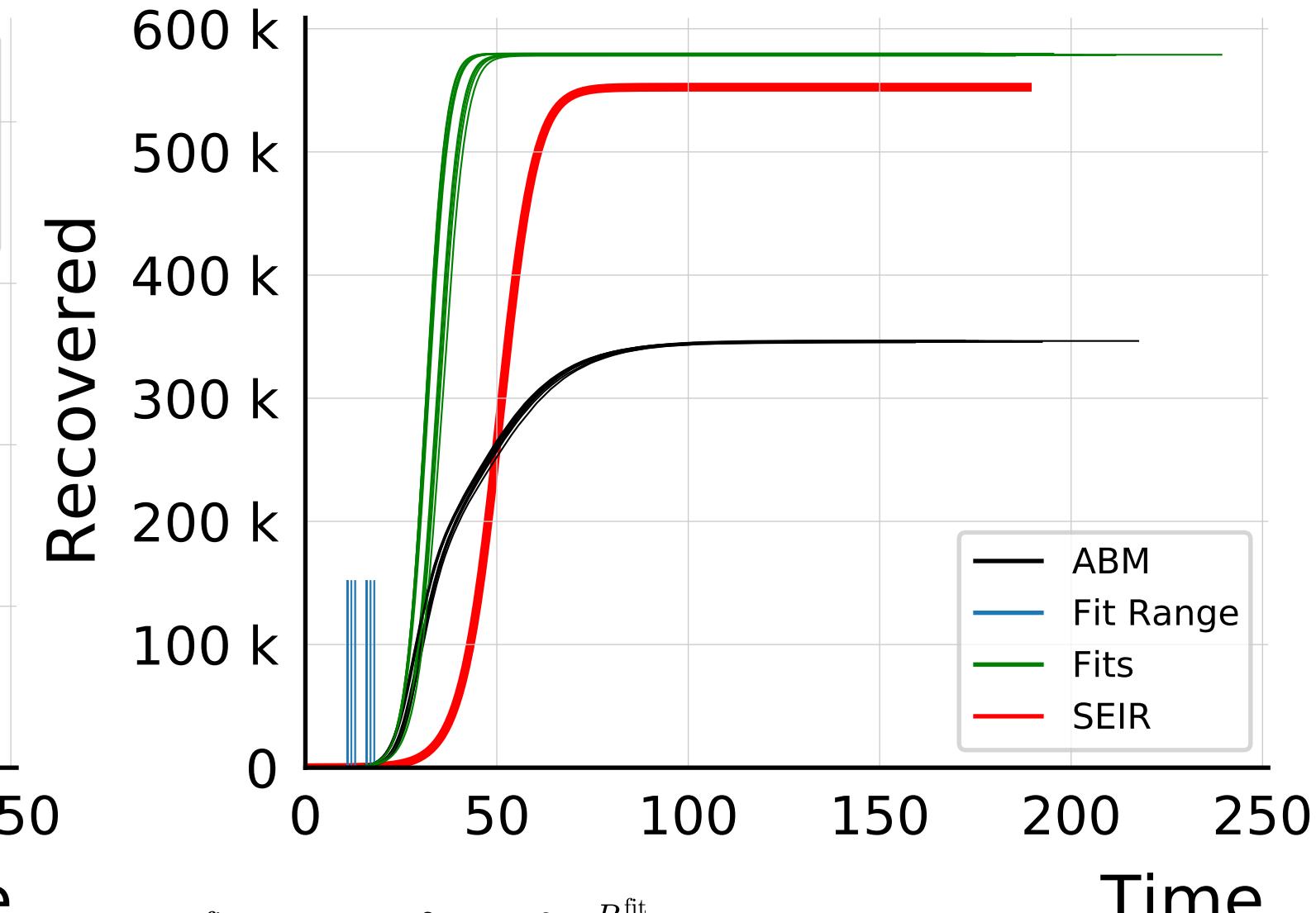


$$R_{\infty}^{\text{fit}} = 562^{+8}_{-13} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 2.66 \pm 0.016$$

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

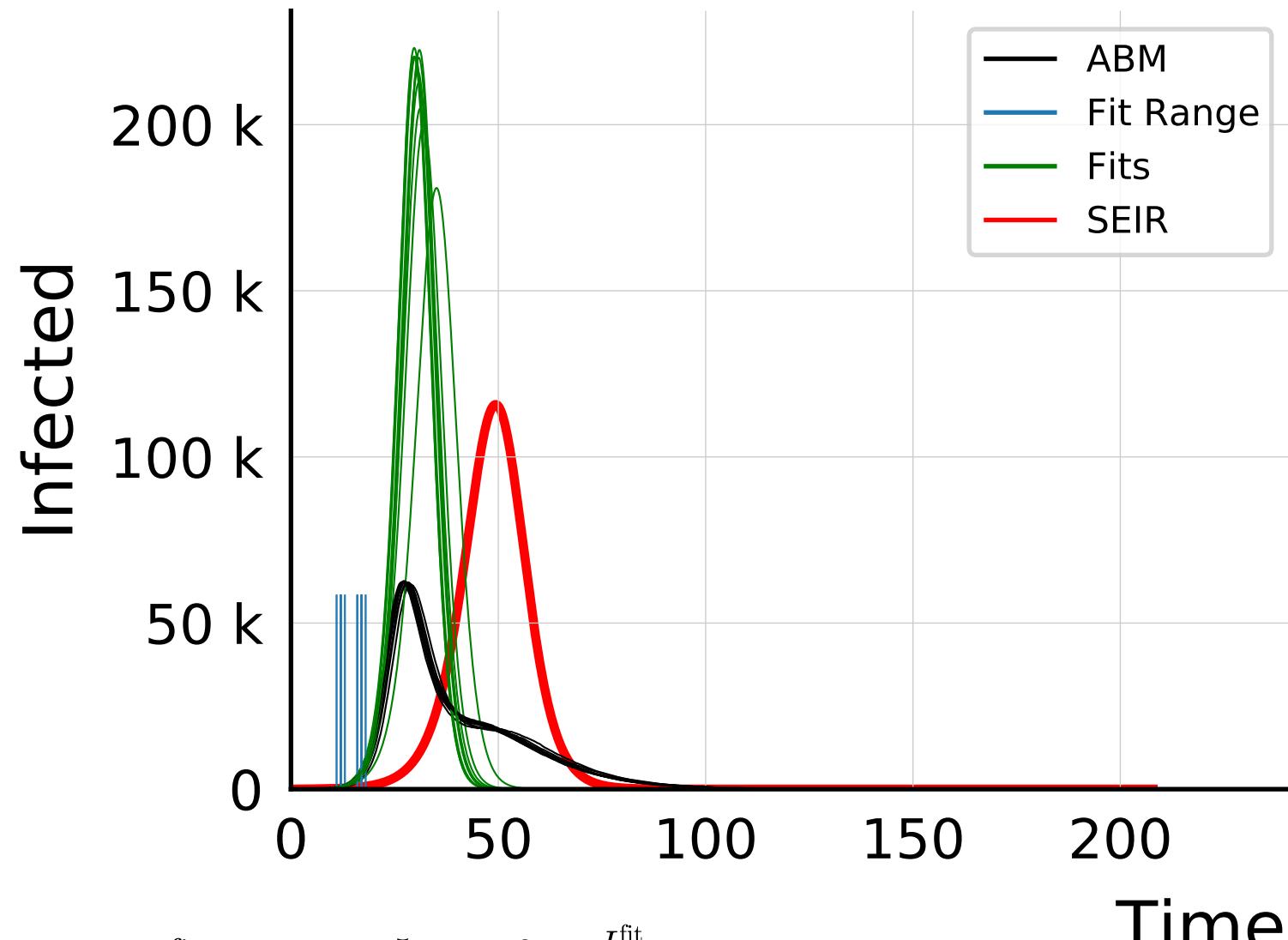


$$I_{\max}^{\text{fit}} = 210_{-19}^{+9} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.27 \pm 0.061$$

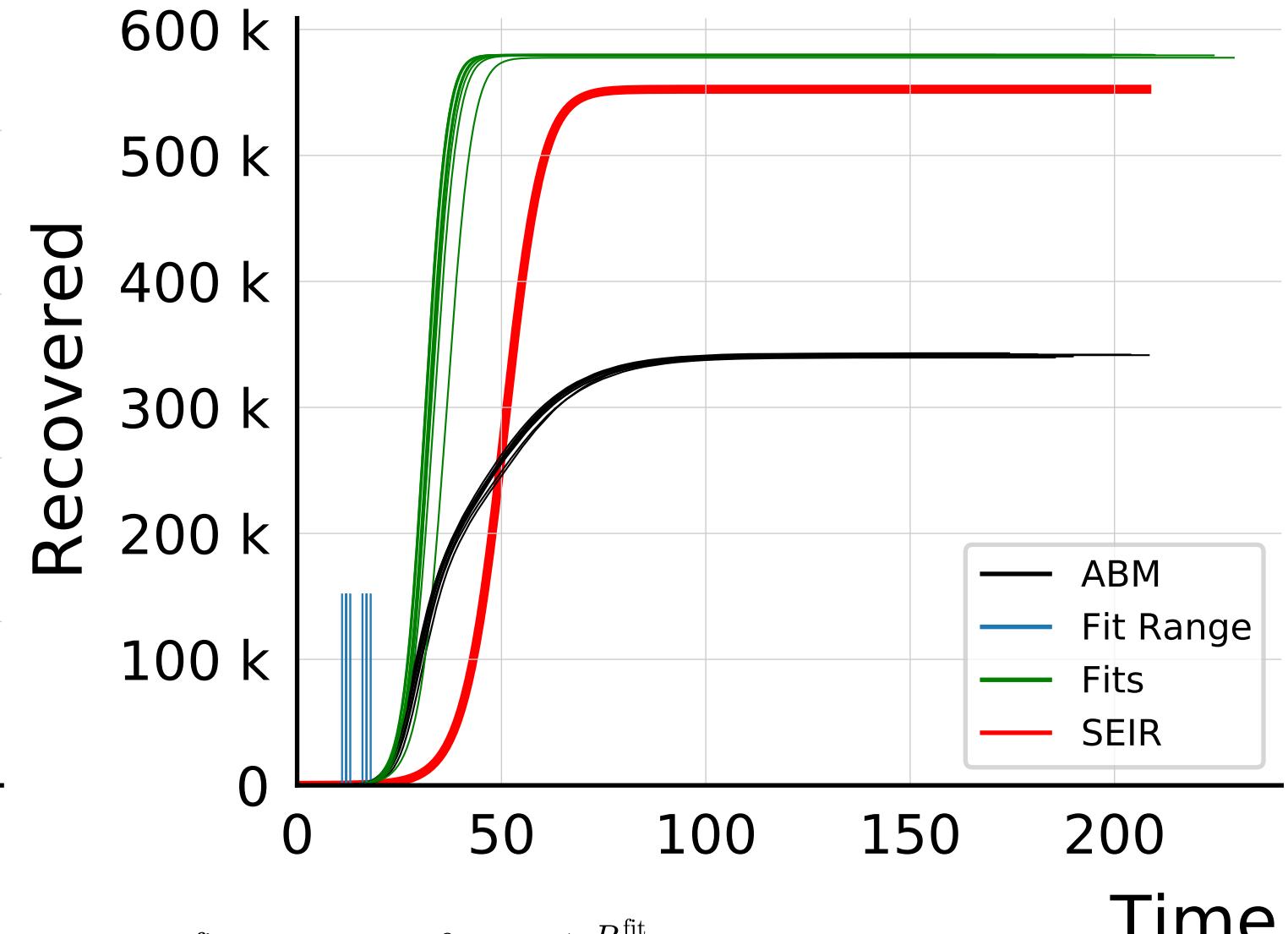


$$R_{\infty}^{\text{fit}} = 5796_{-11}^{+2} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.6735 \pm 0.00089$$

$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10

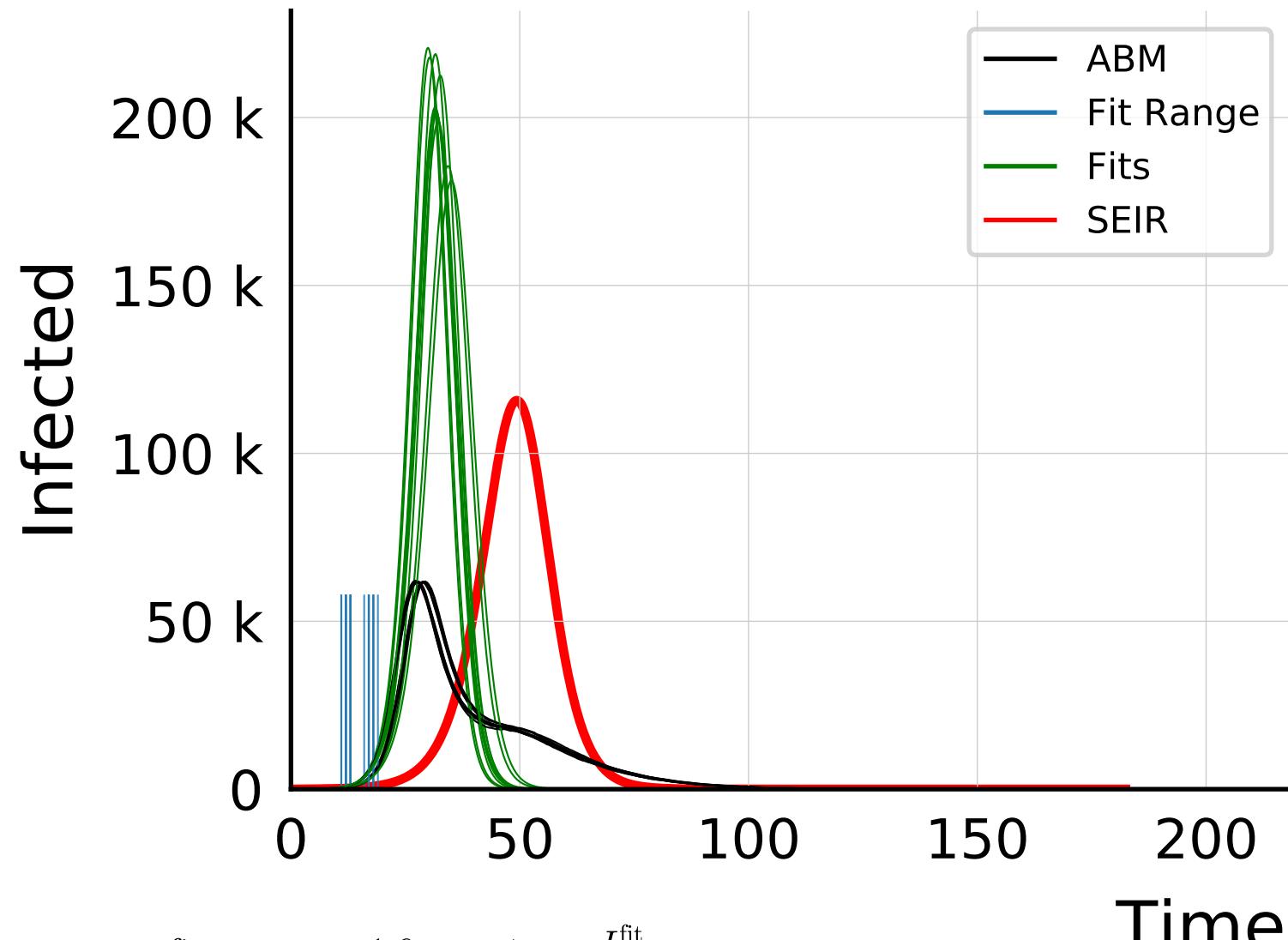


$$I_{\max}^{\text{fit}} = 217_{-17}^{+5} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.4 \pm 0.062$$



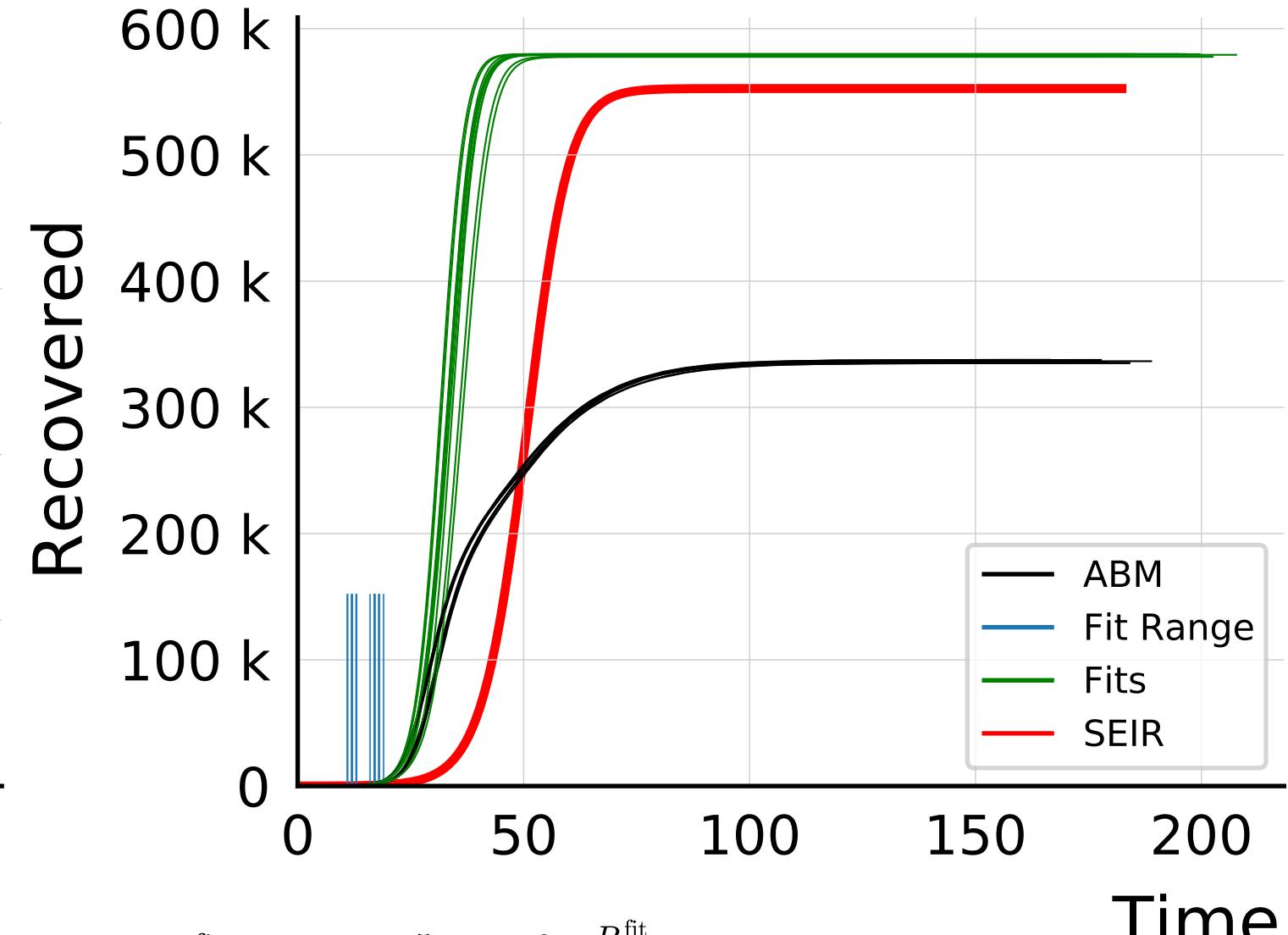
$$R_{\infty}^{\text{fit}} = 57978_{-60}^{+9} \cdot 10^1 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.697 \pm 0.0018$$

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



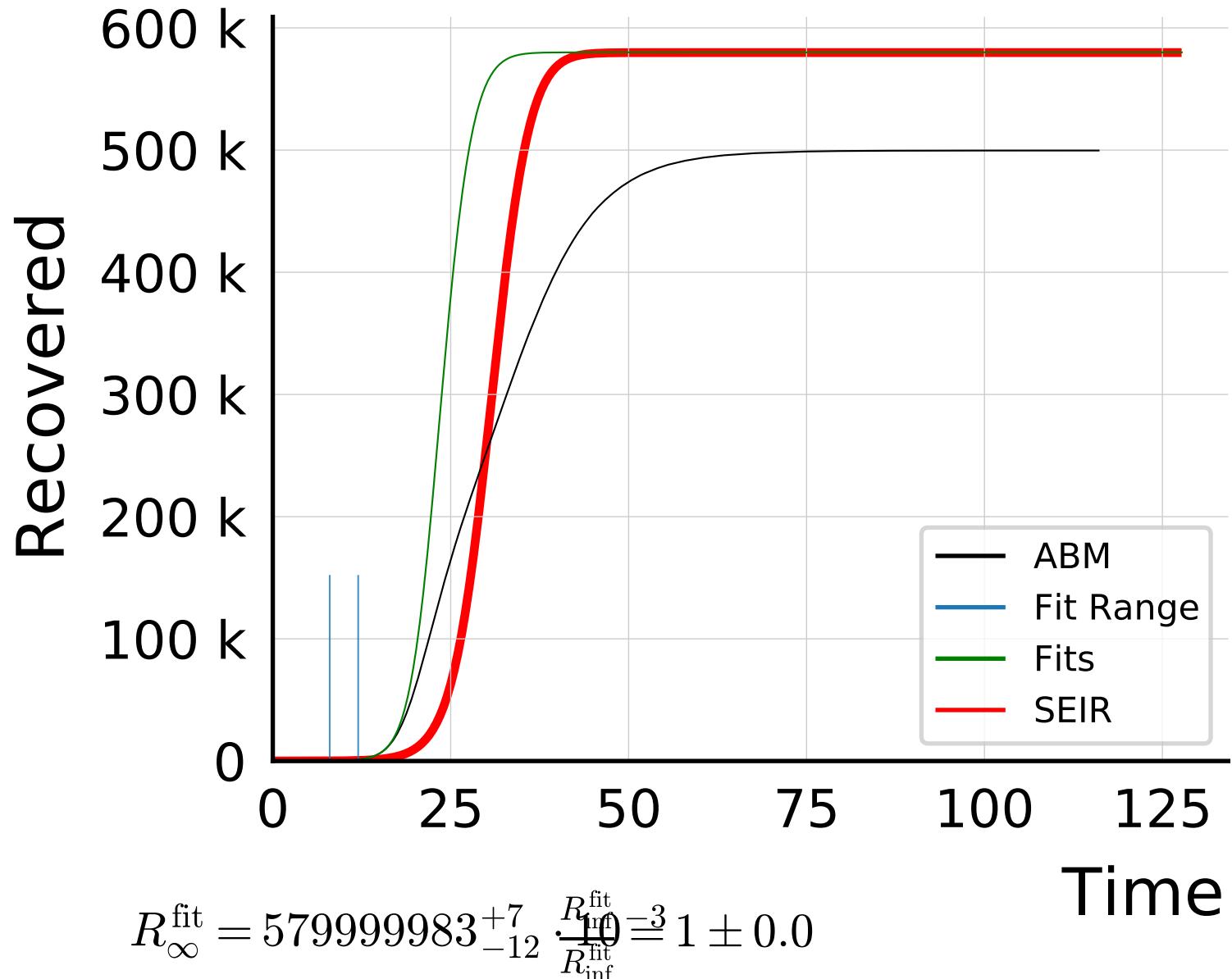
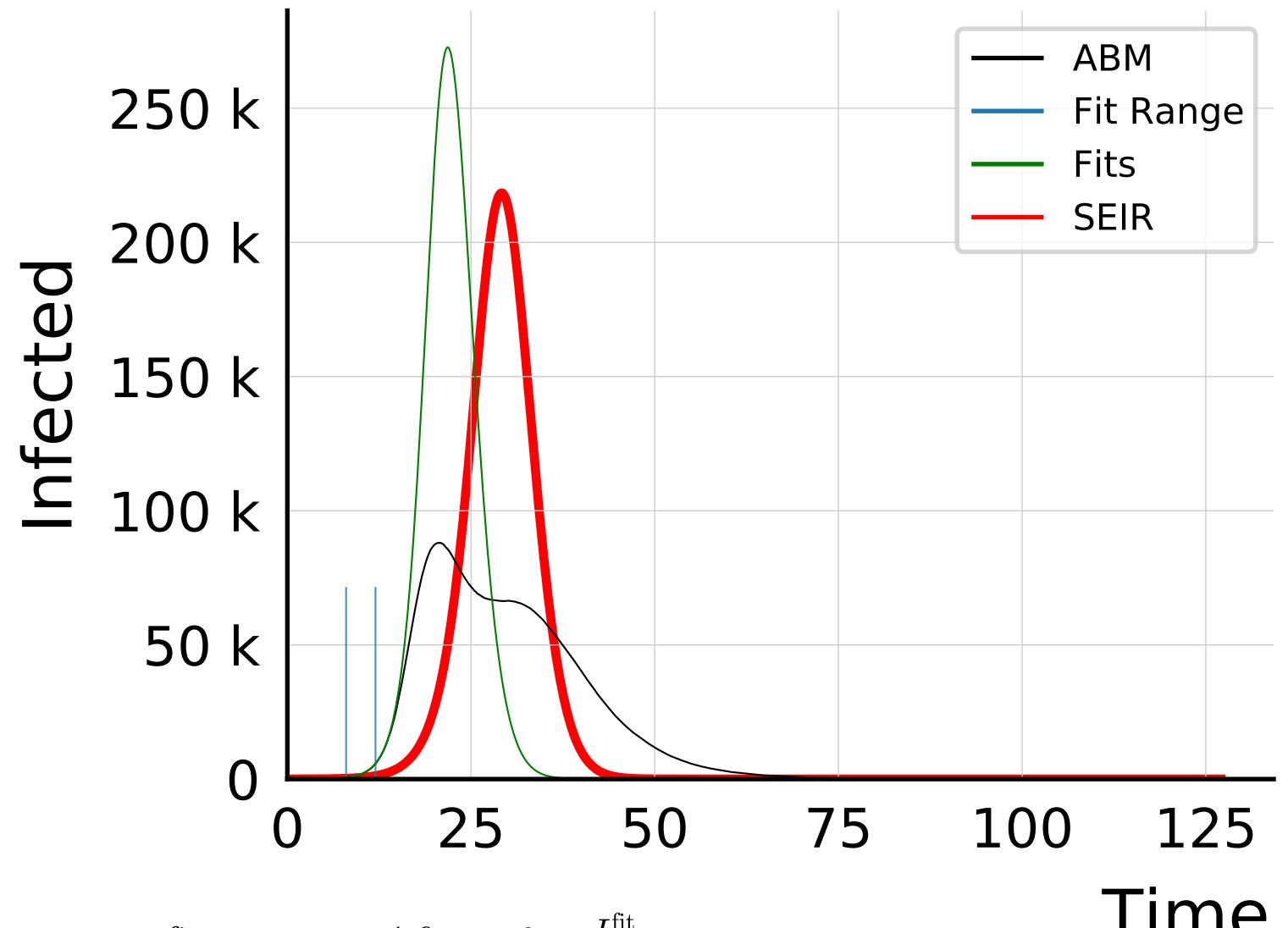
$$I_{\max}^{\text{fit}} = 20^{+1.6}_{-1.7} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.31 \pm 0.066$$

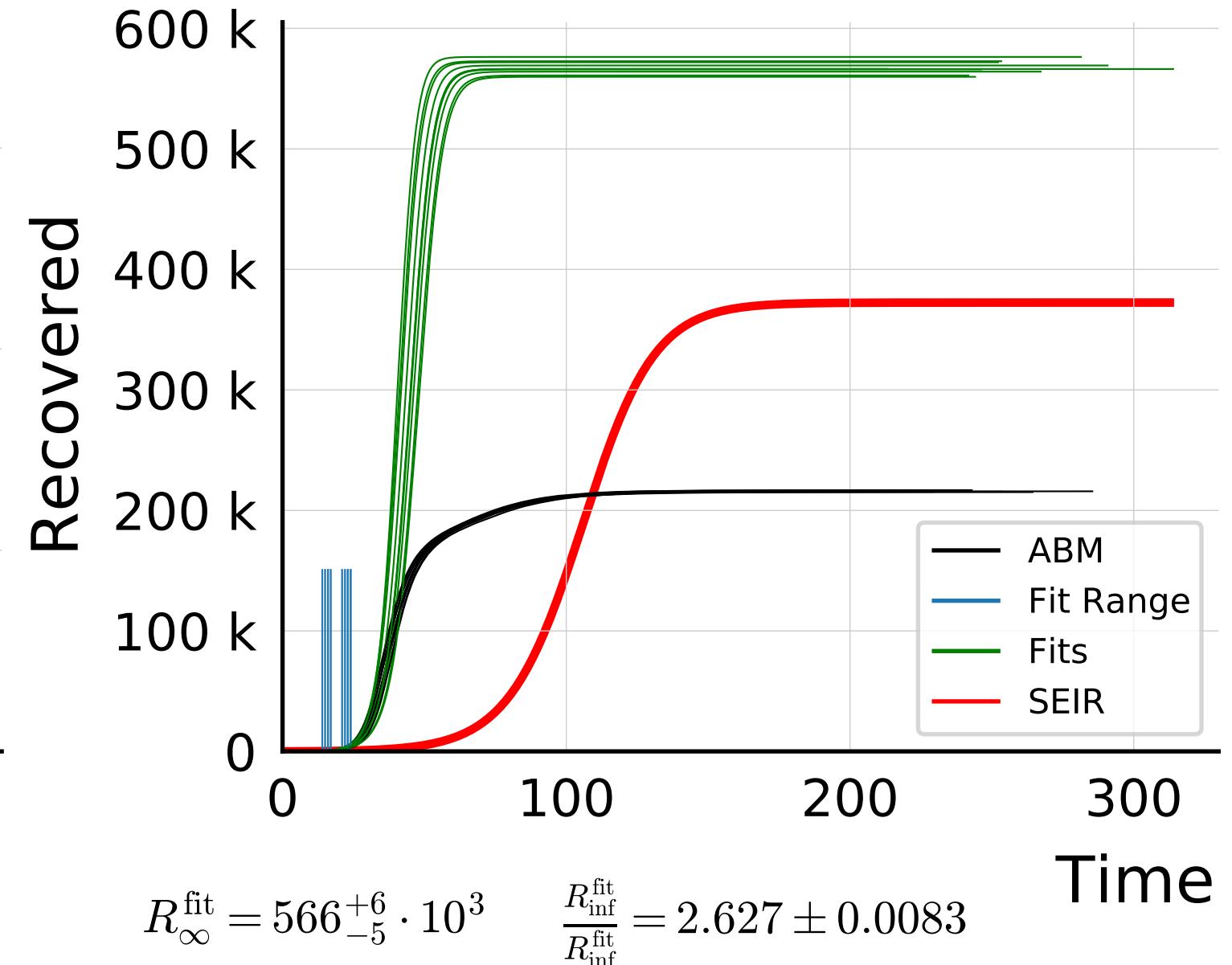
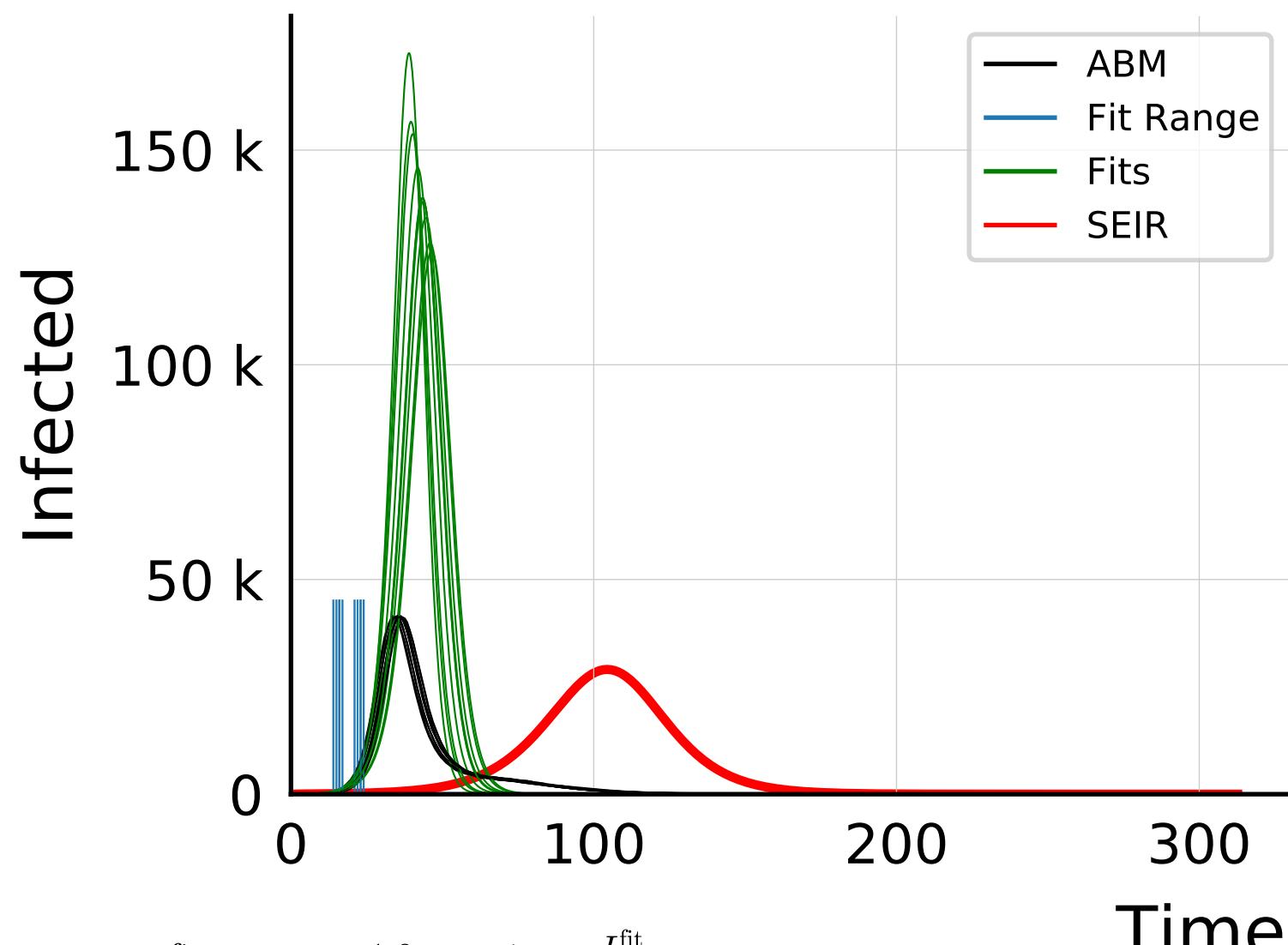


$$R_{\infty}^{\text{fit}} = 5793^{+5}_{-12} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.722 \pm 0.0010$$

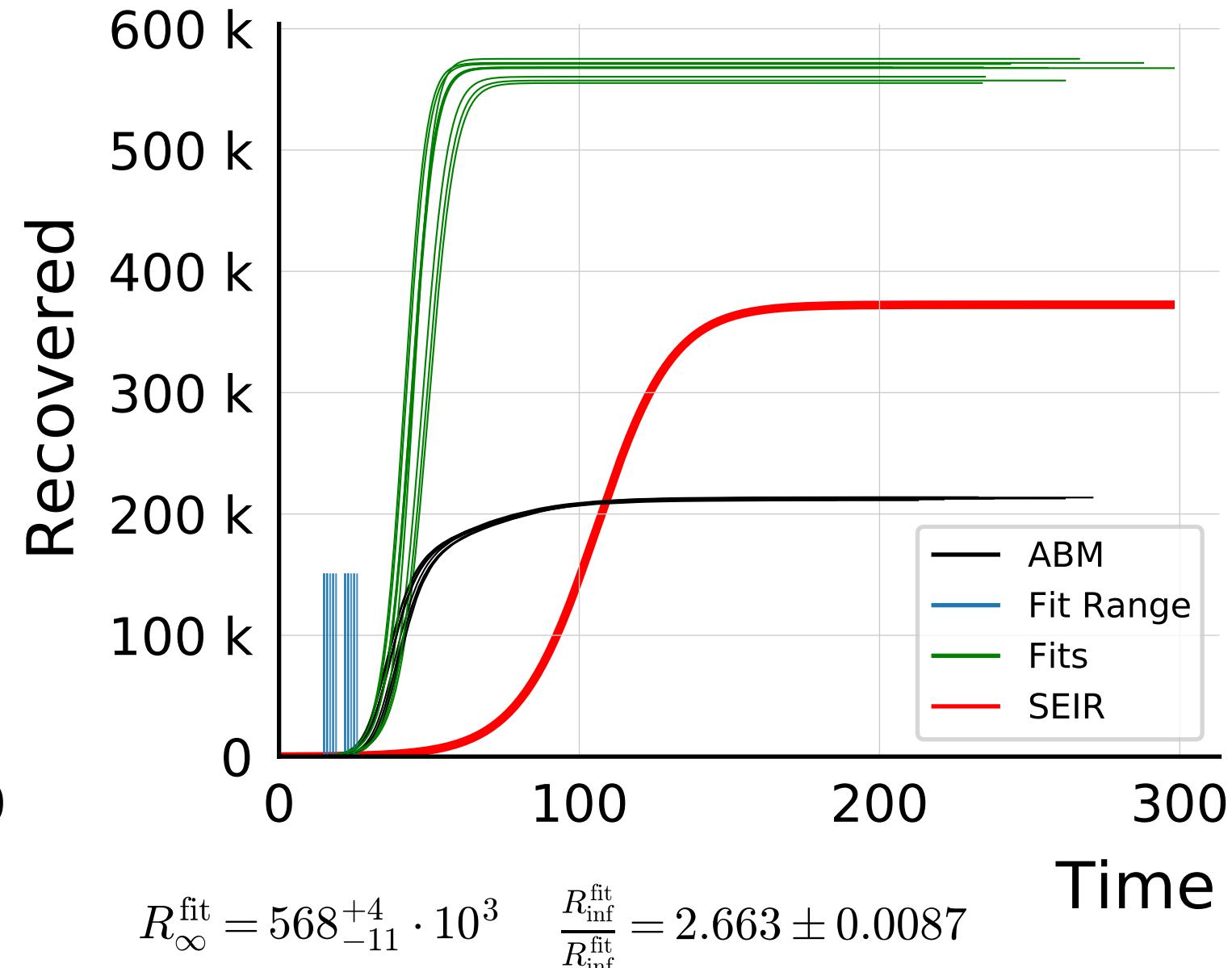
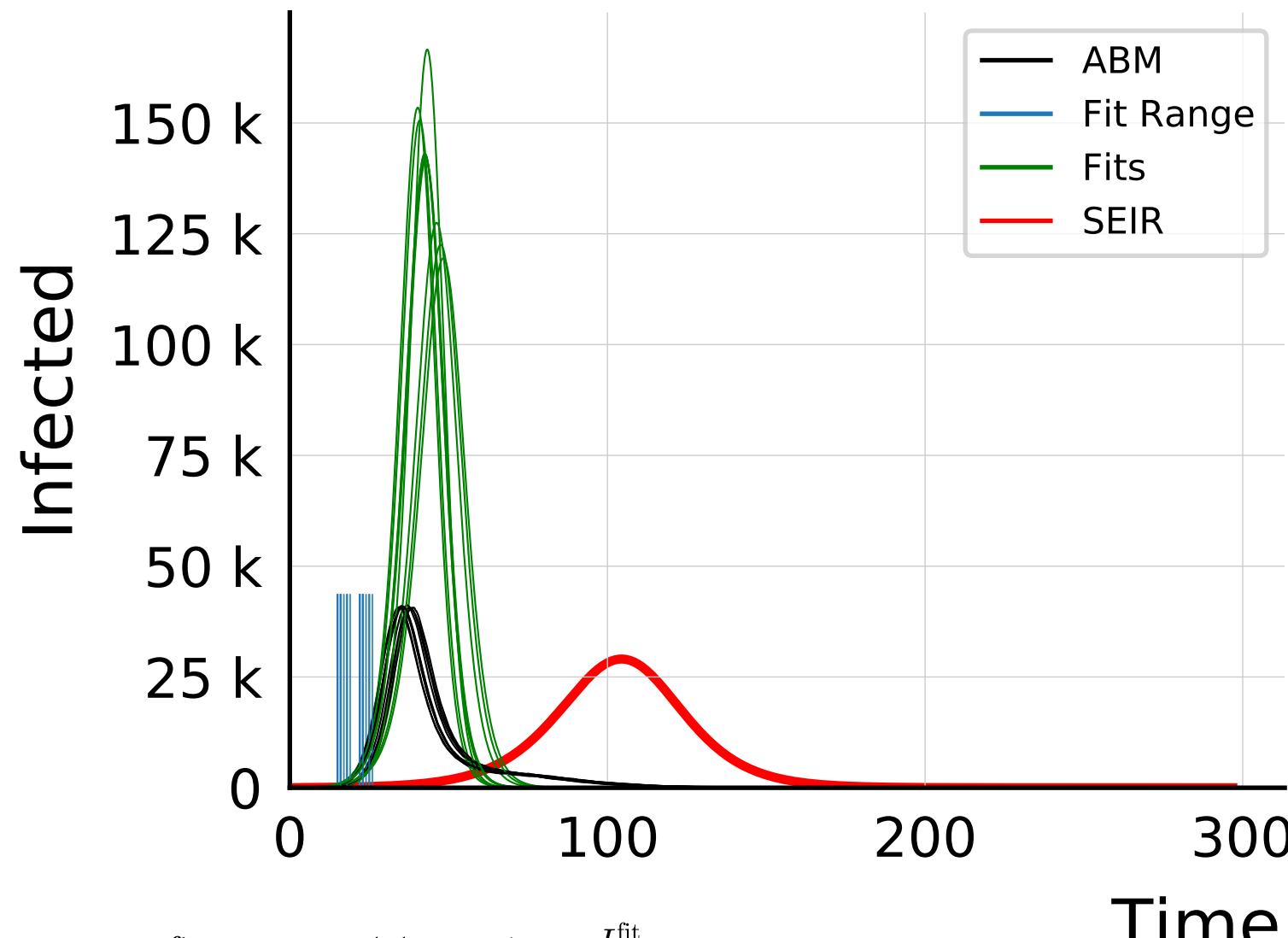
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.05$ ,  $\sigma_\beta = 0.5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #1



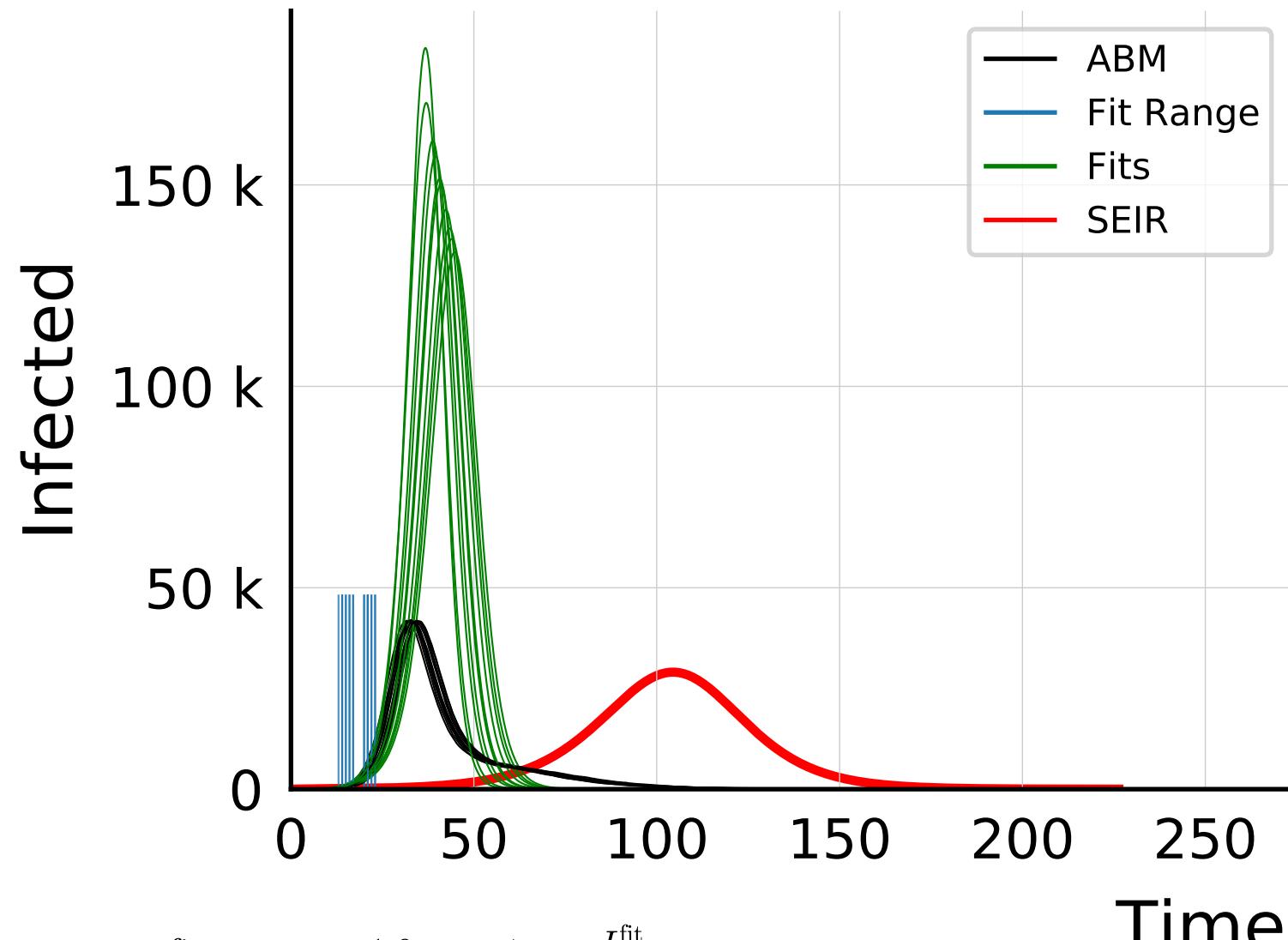
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



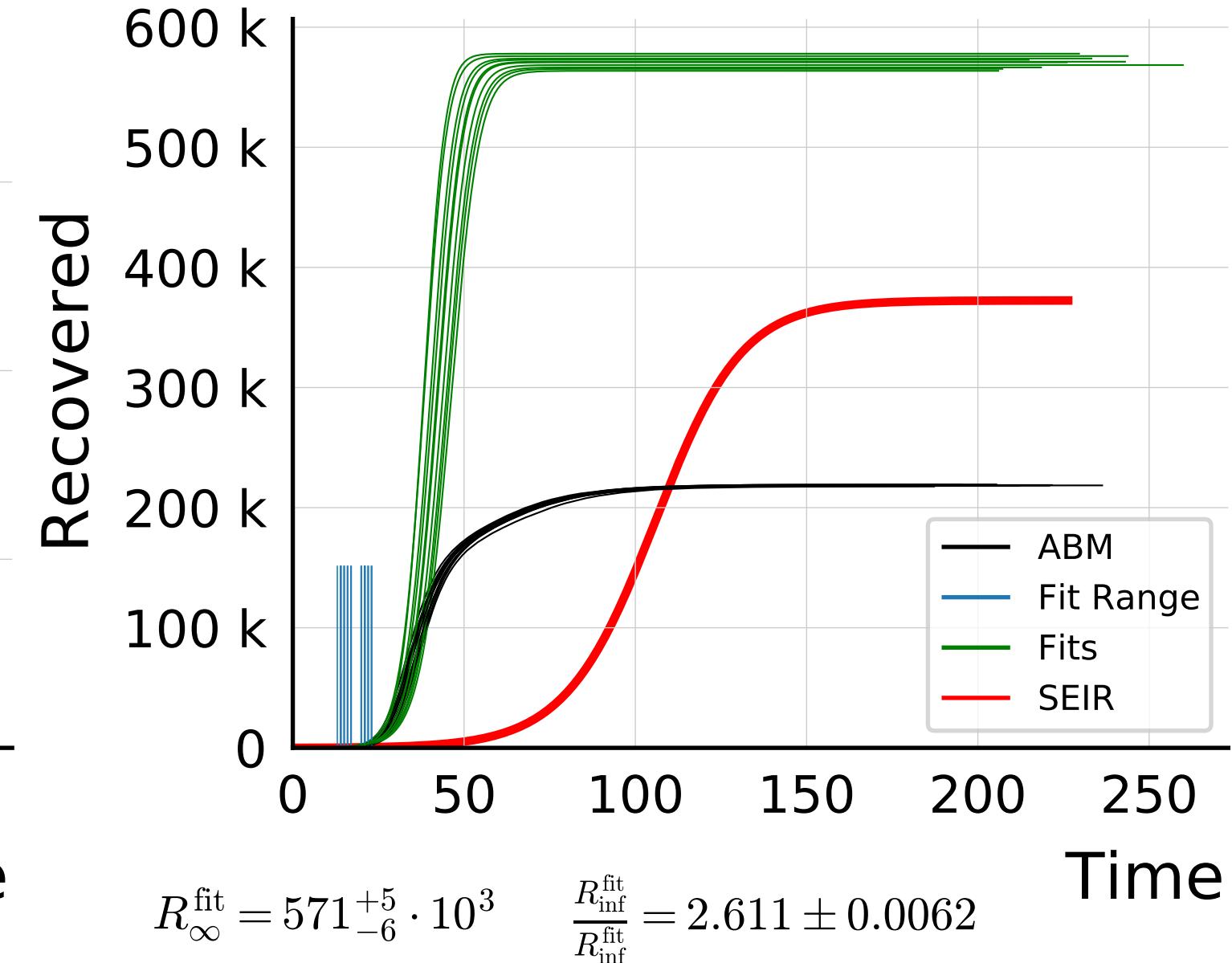
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

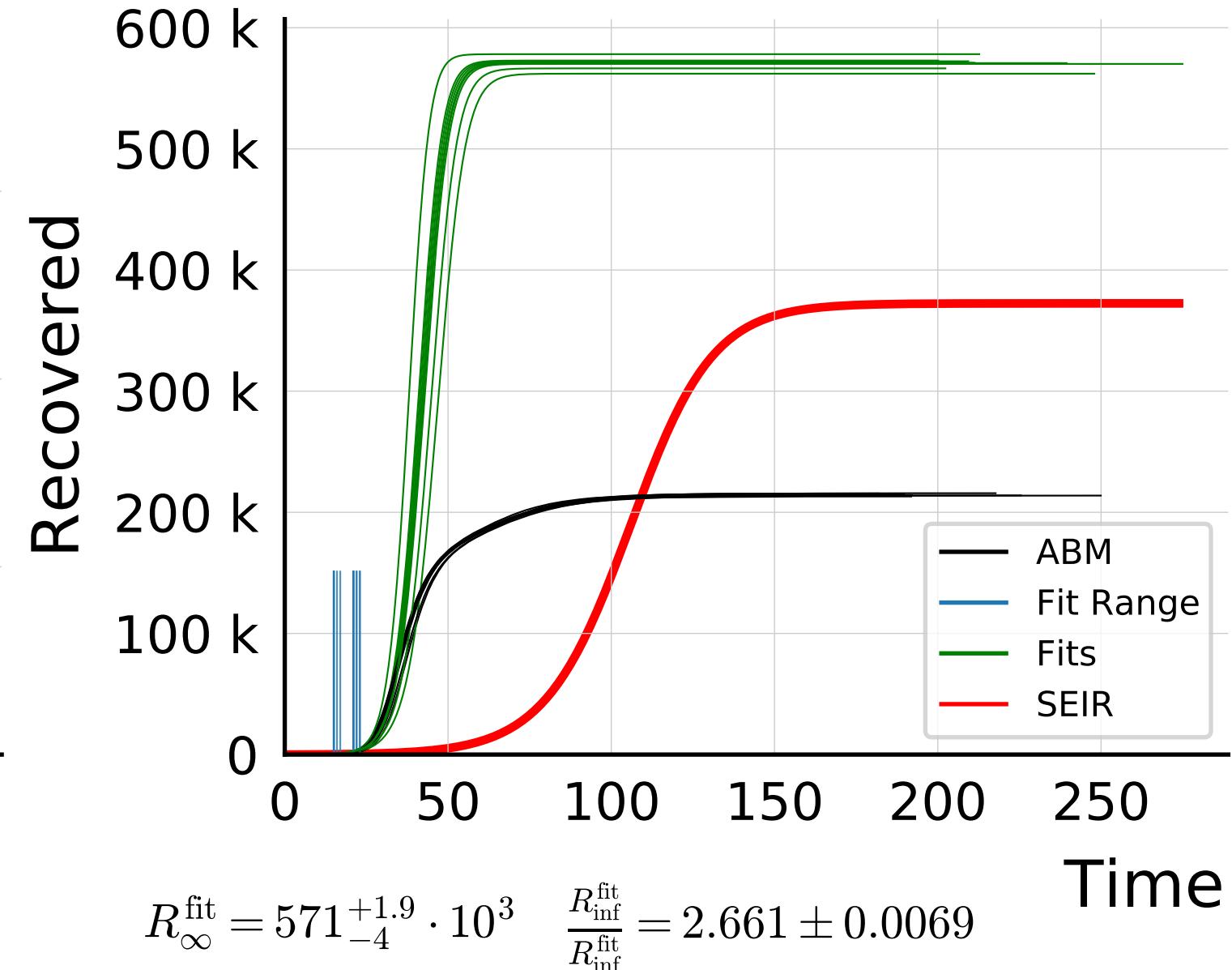
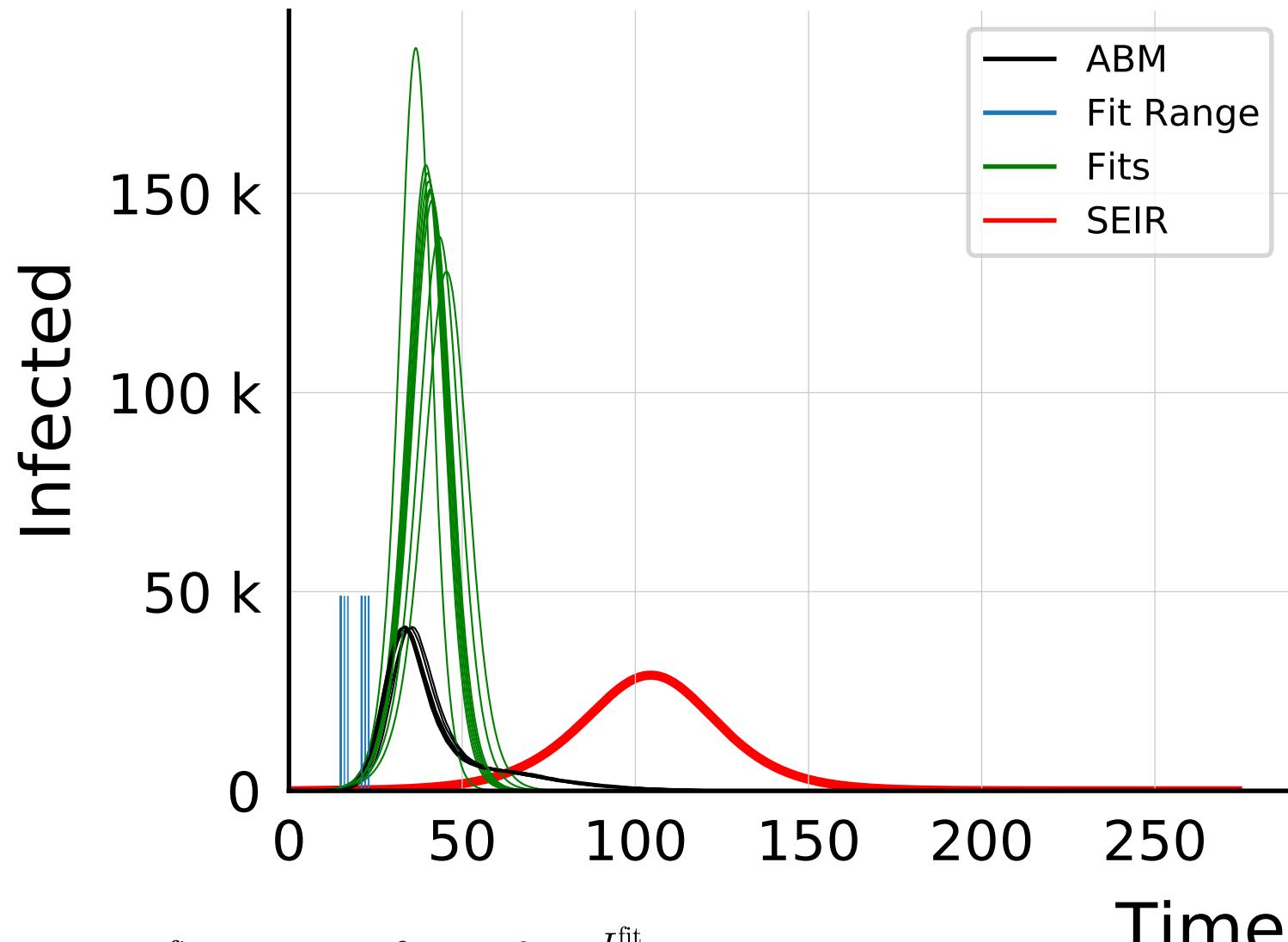


$$I_{\max}^{\text{fit}} = 15^{+1.9}_{-1.4} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.7 \pm 0.11$$

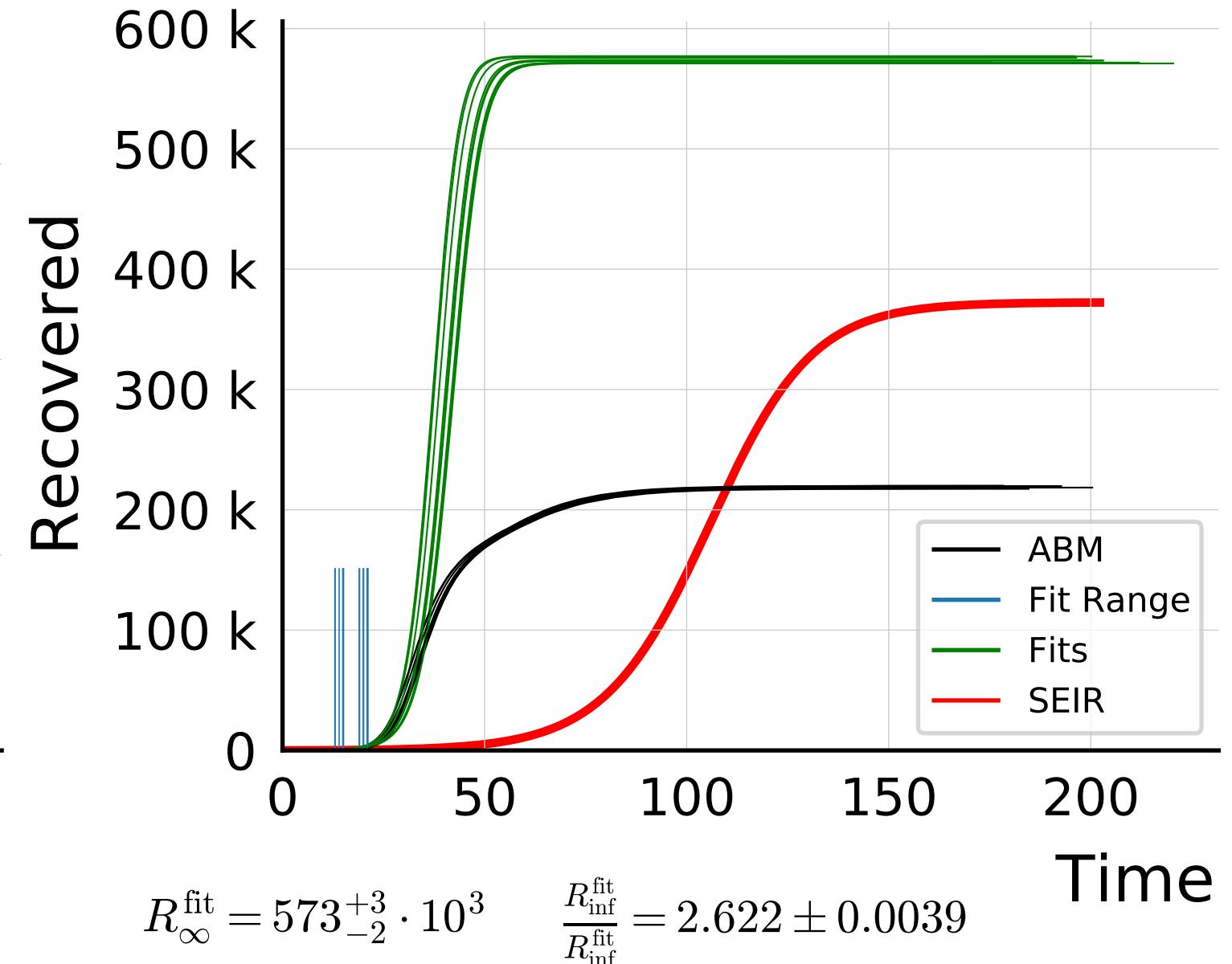
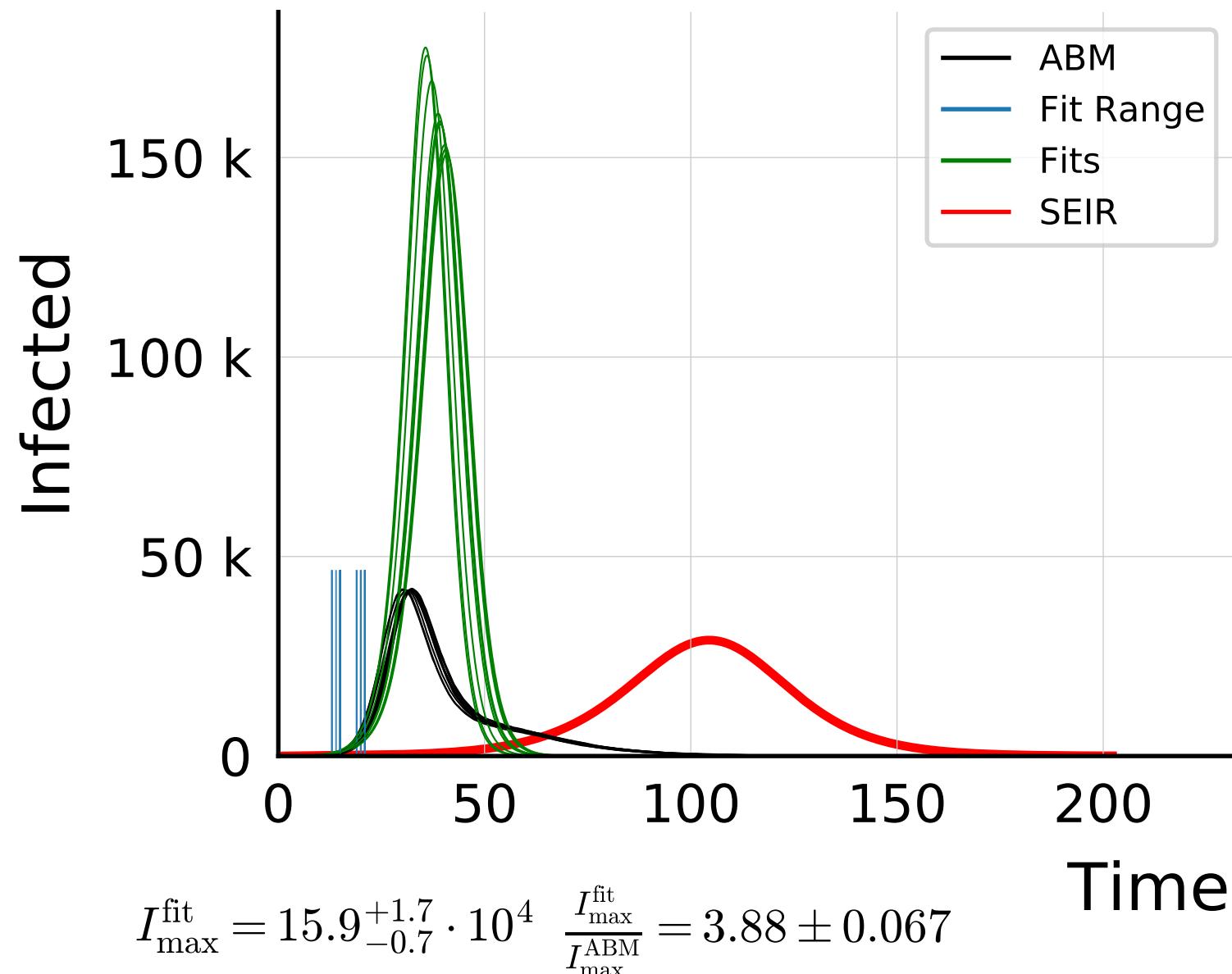


$$R_{\infty}^{\text{fit}} = 571^{+5}_{-6} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 2.611 \pm 0.0062$$

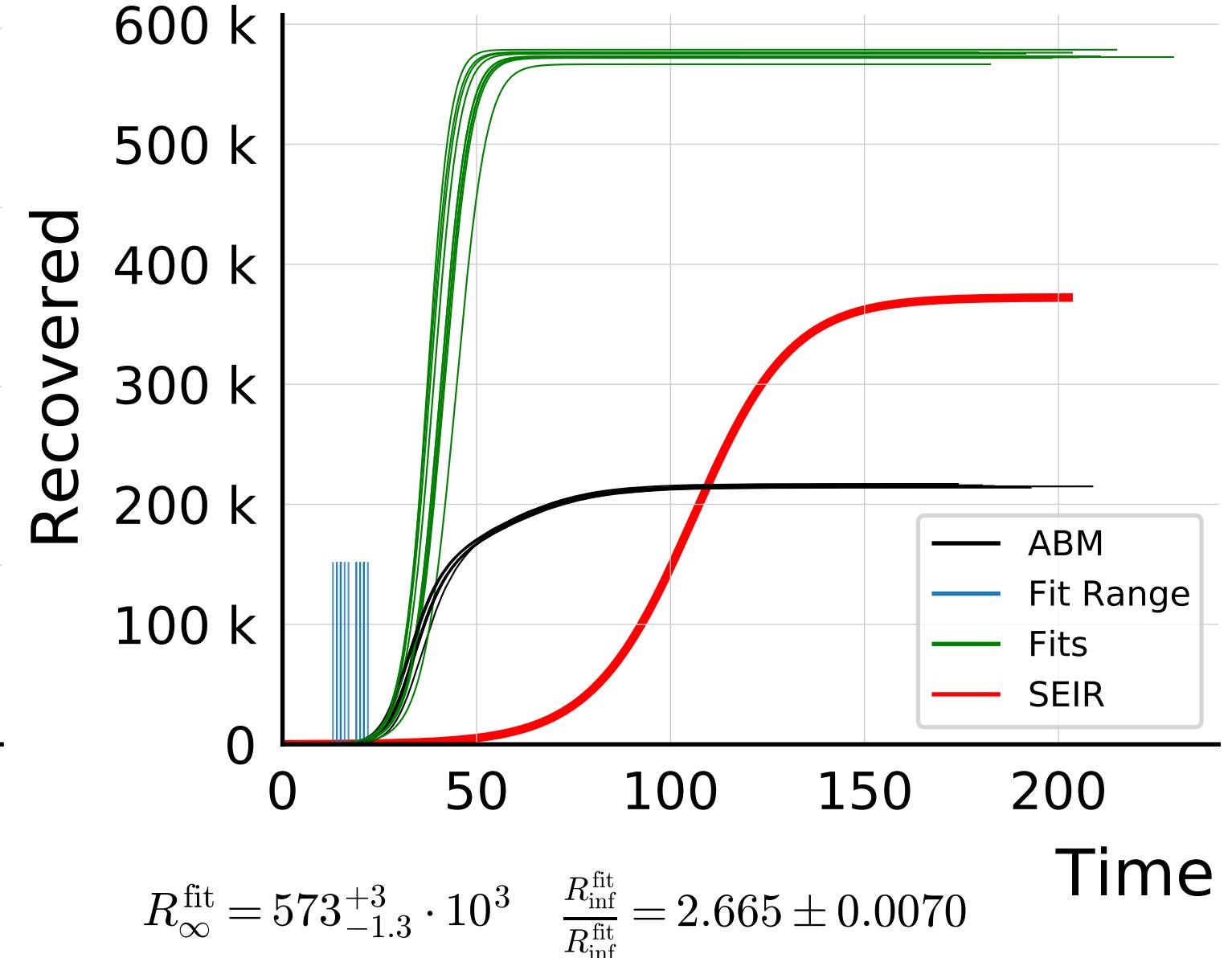
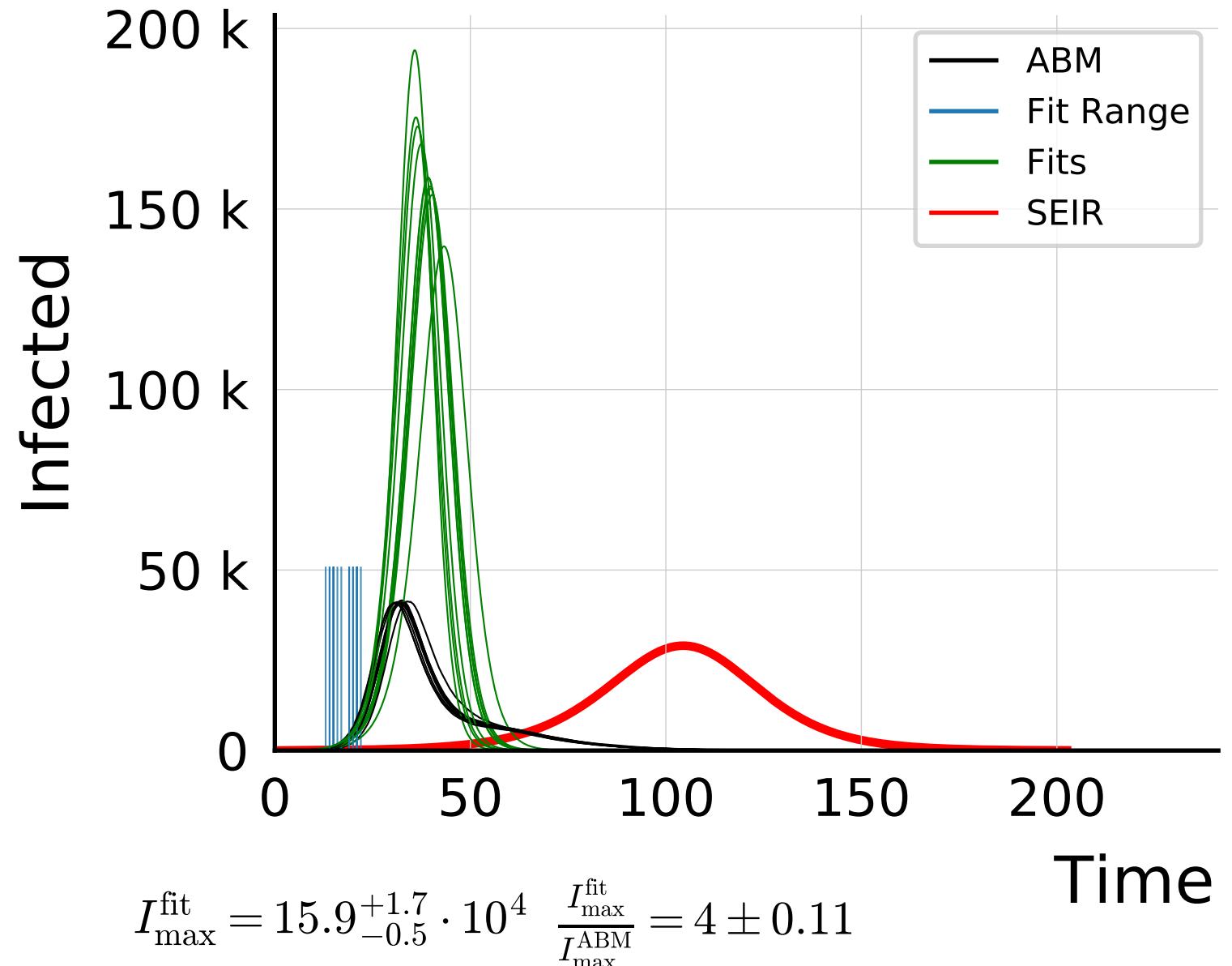
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



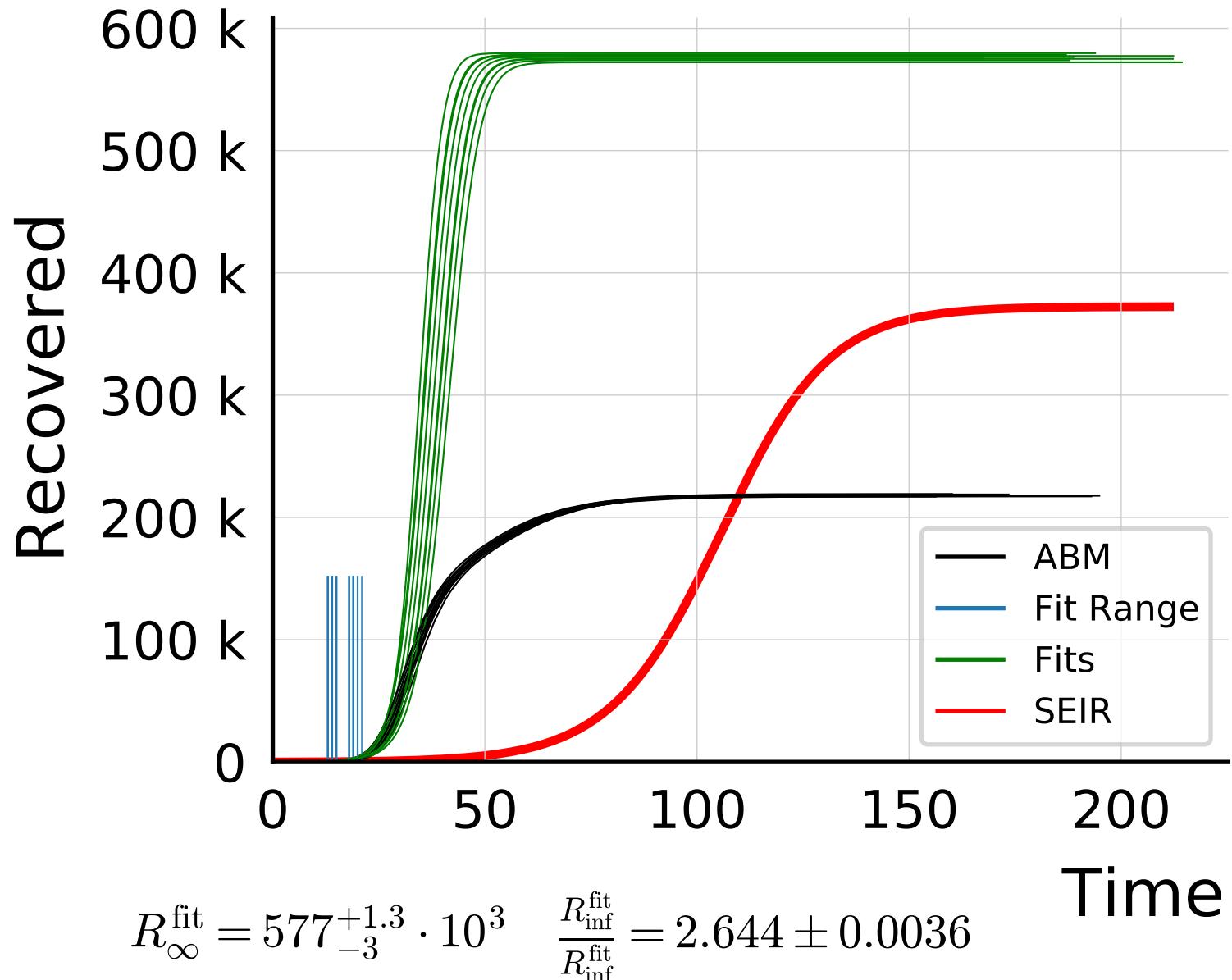
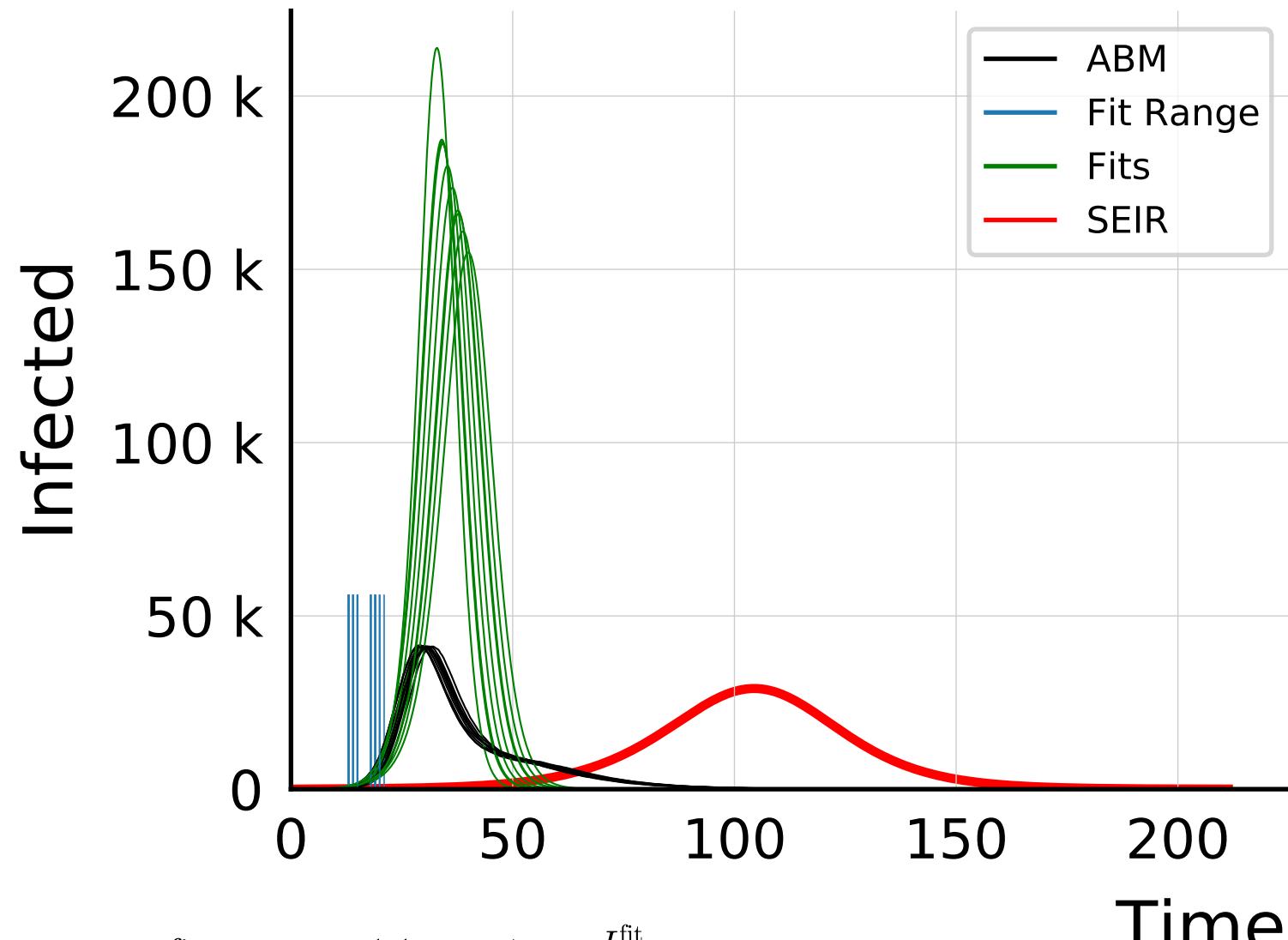
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



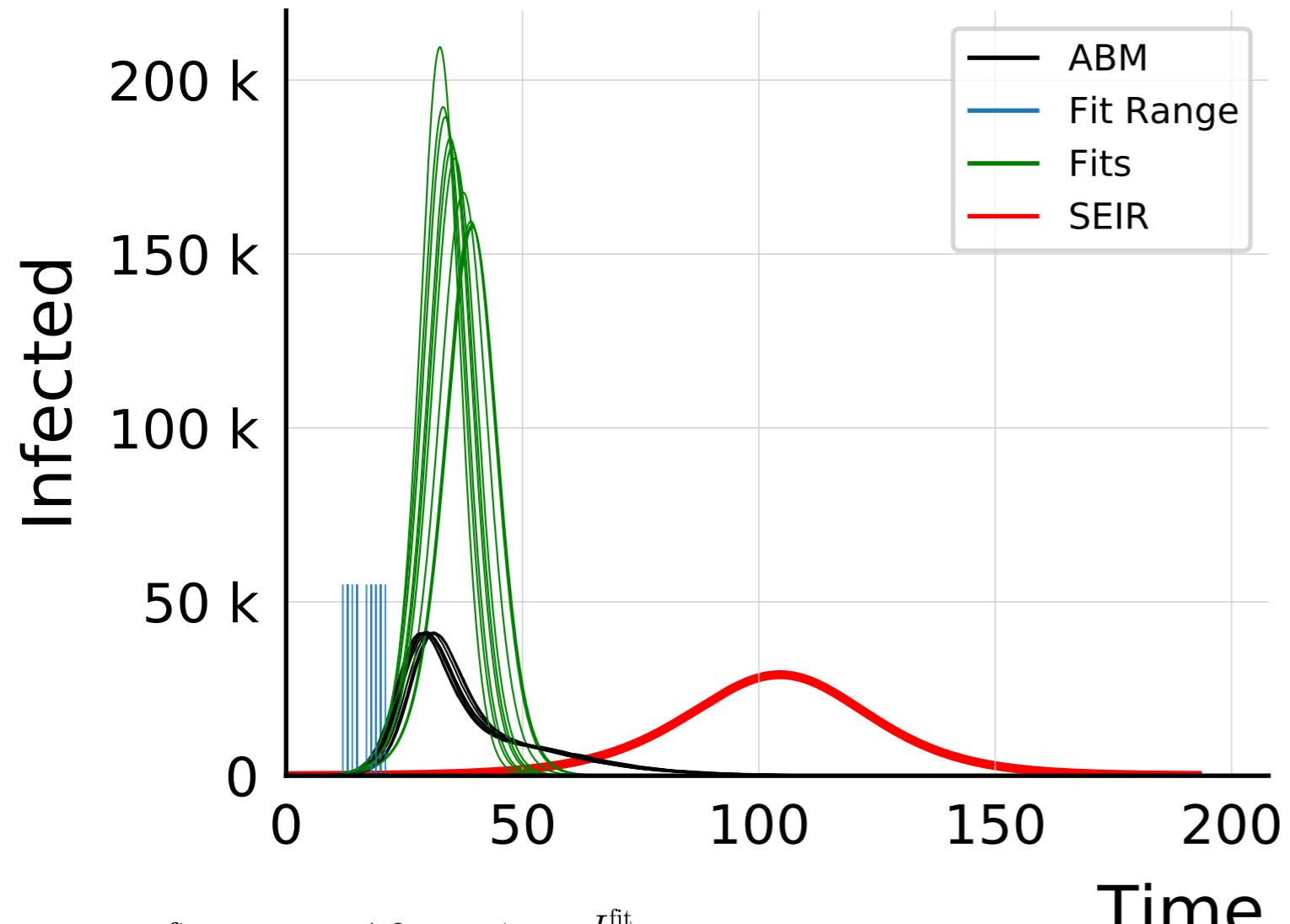
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



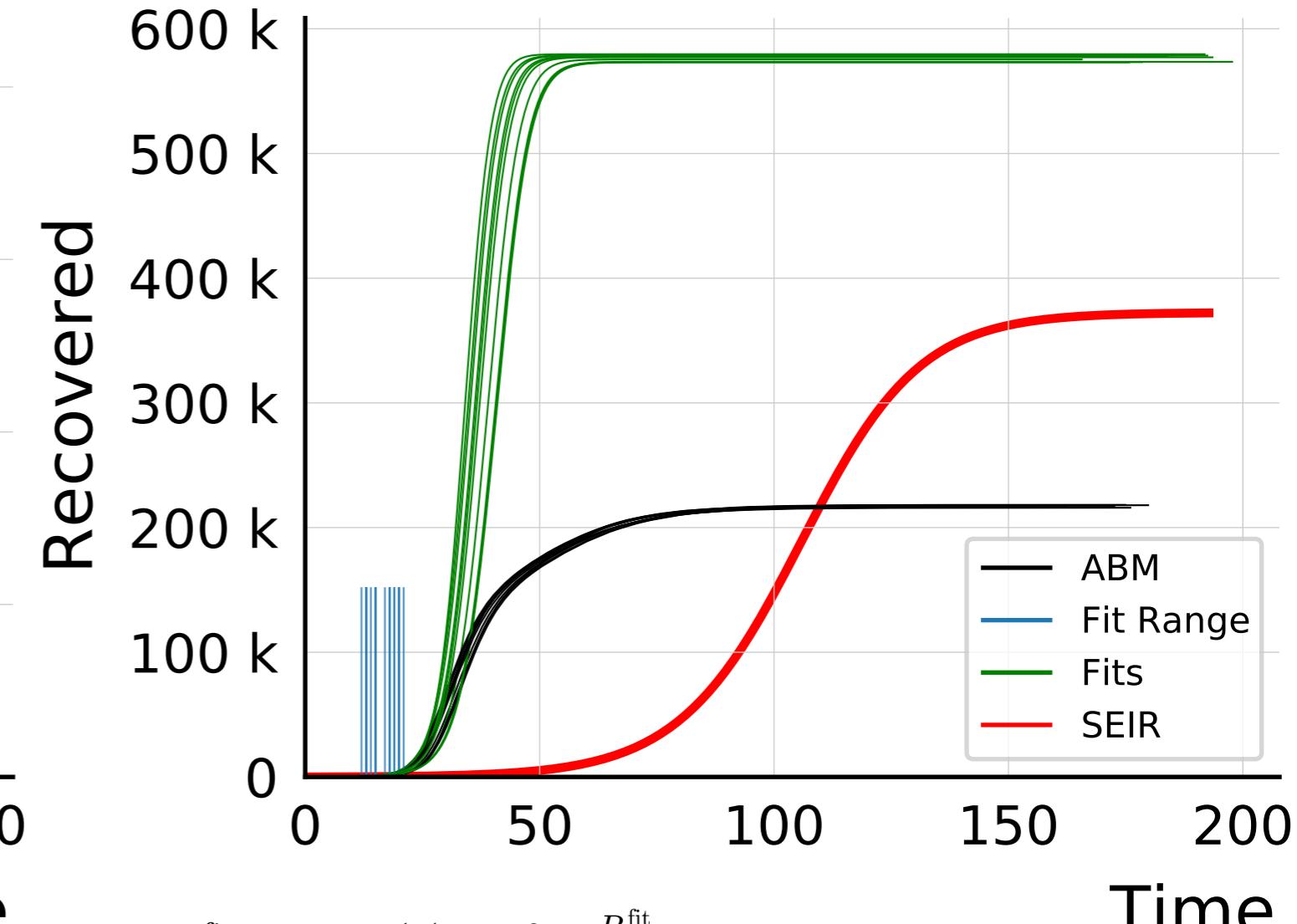
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

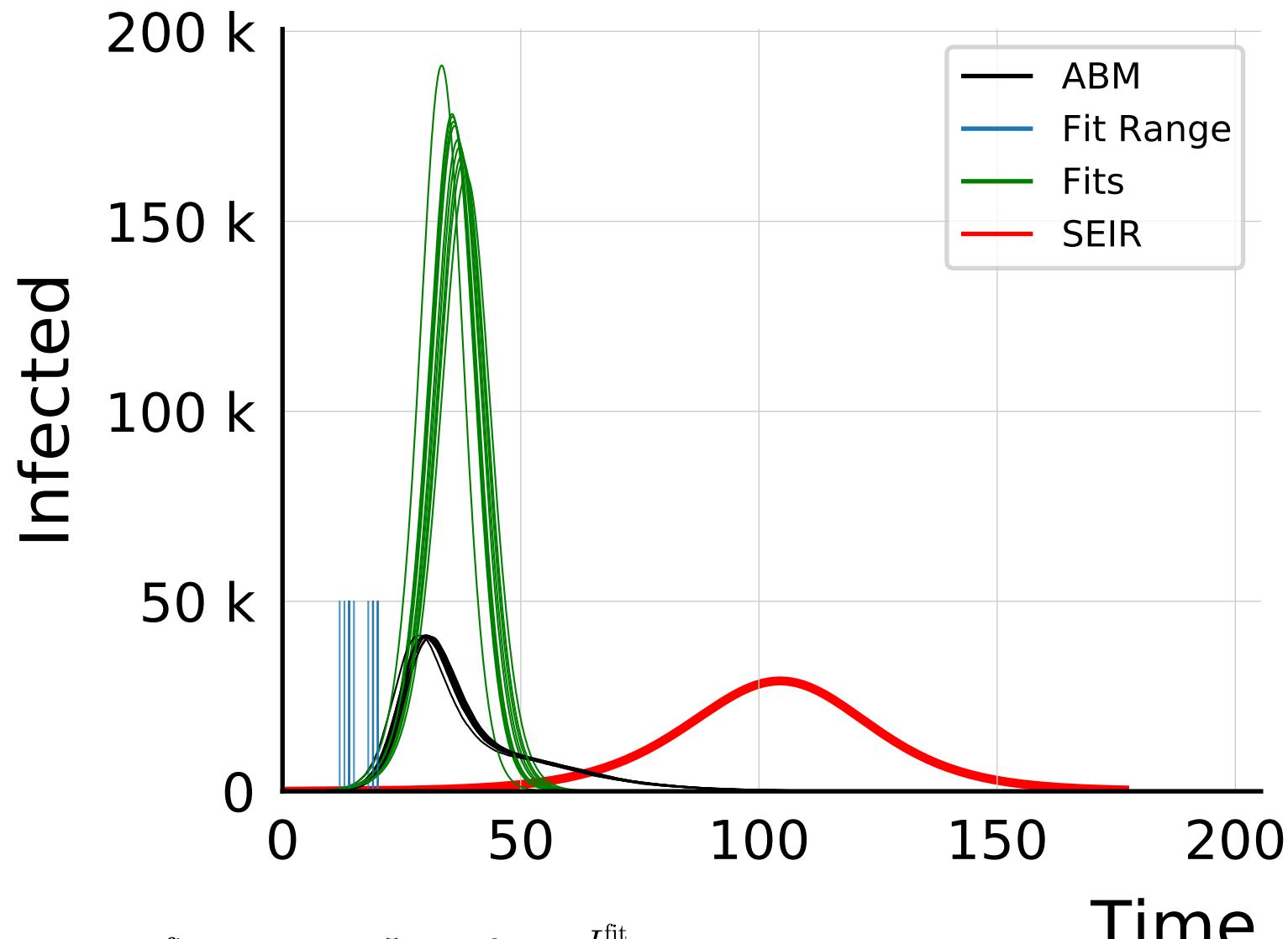


$$I_{\max}^{\text{fit}} = 18_{-2}^{+1.3} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.3 \pm 0.13$$

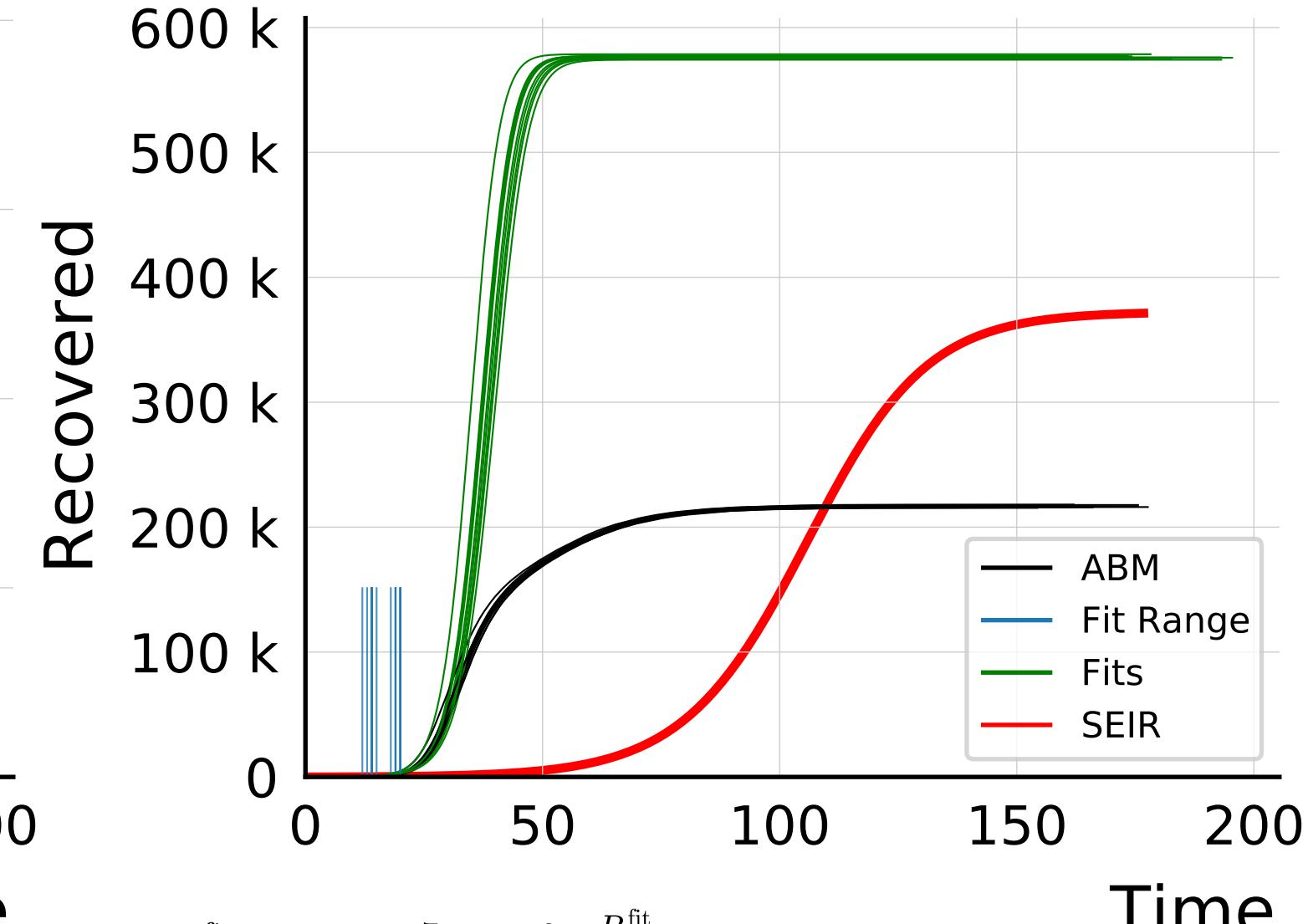


$$R_{\infty}^{\text{fit}} = 577_{-4}^{+1.4} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.654 \pm 0.0037$$

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

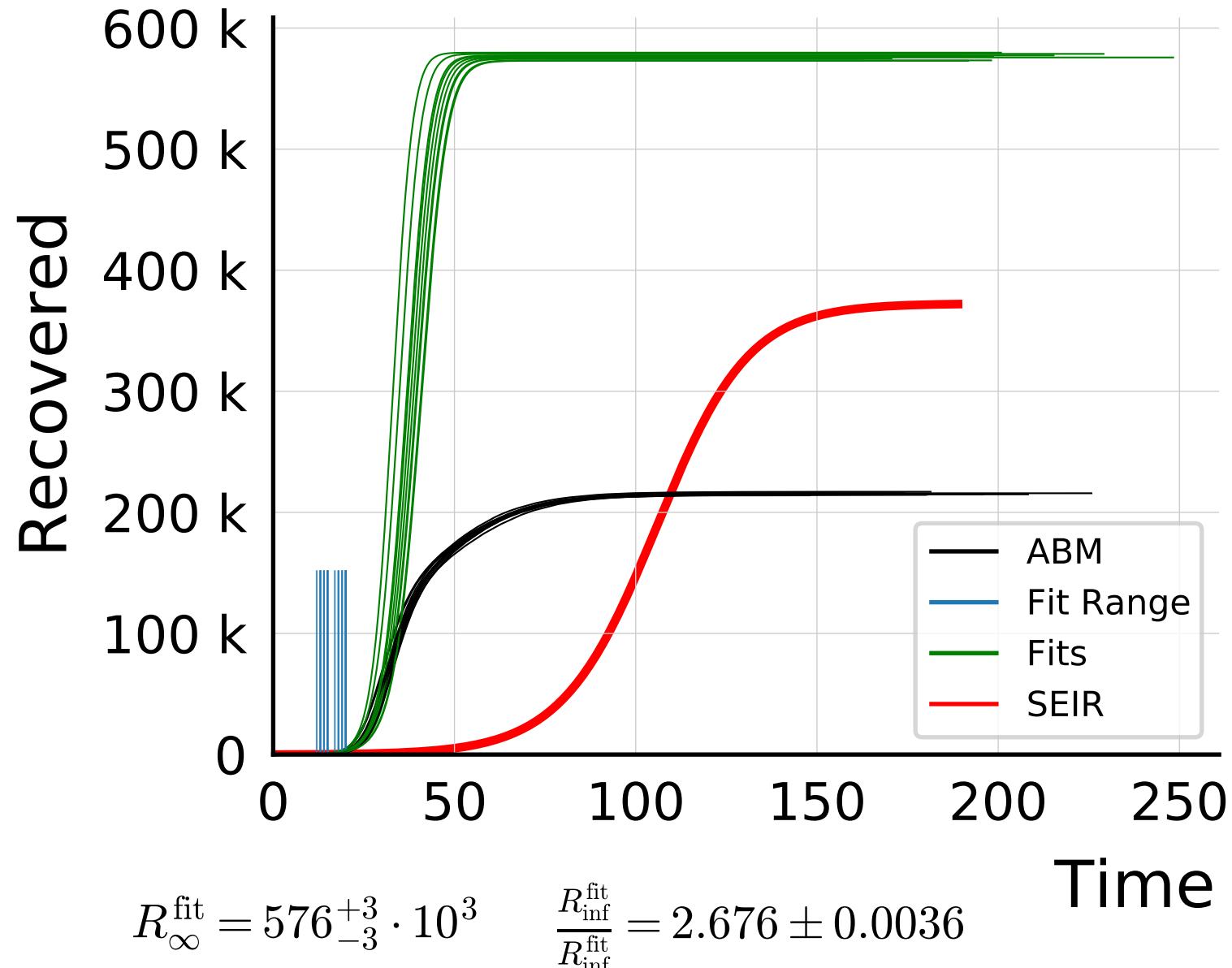
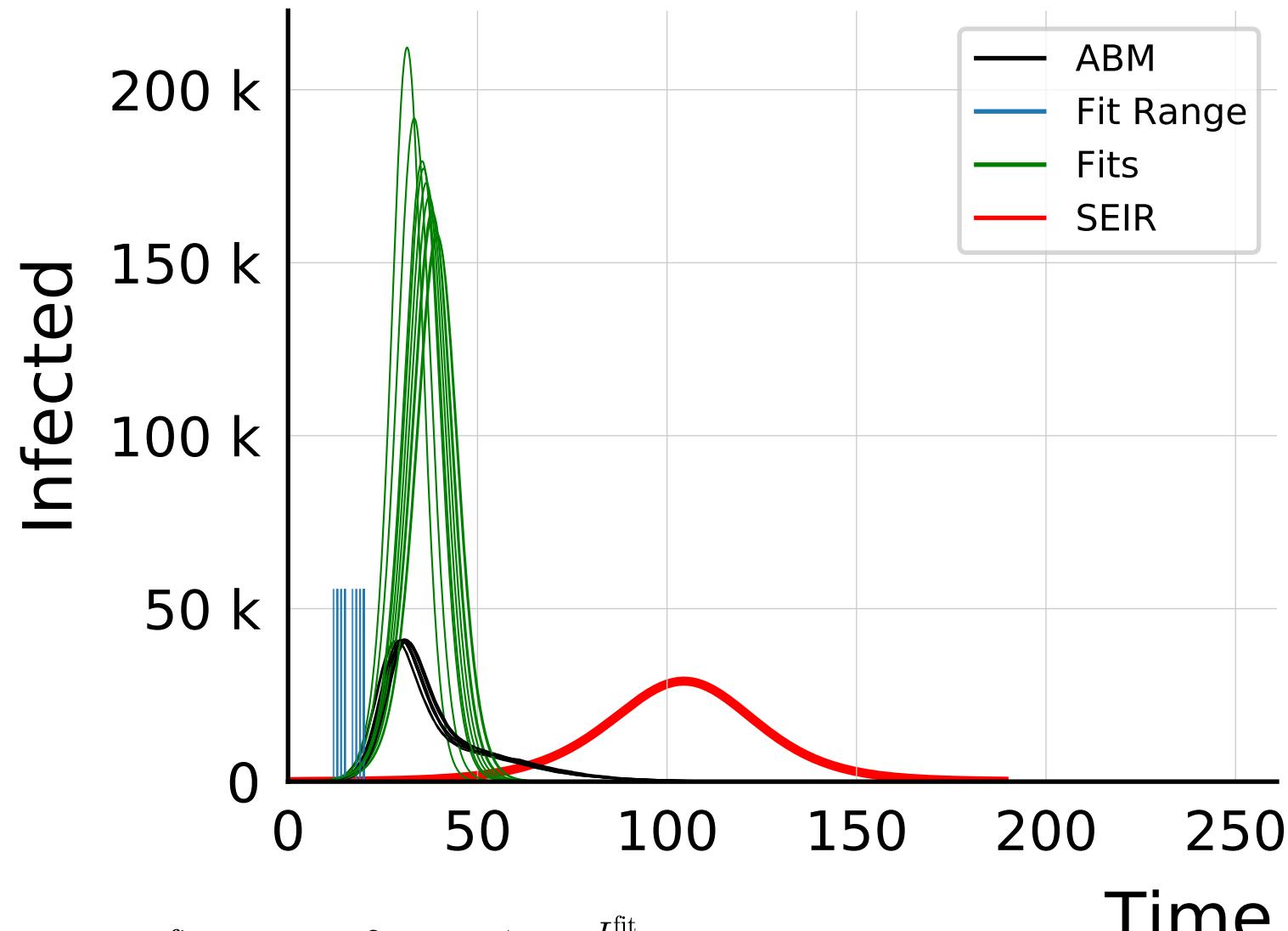


$$I_{\max}^{\text{fit}} = 174^{+5}_{-8} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.24 \pm 0.058$$

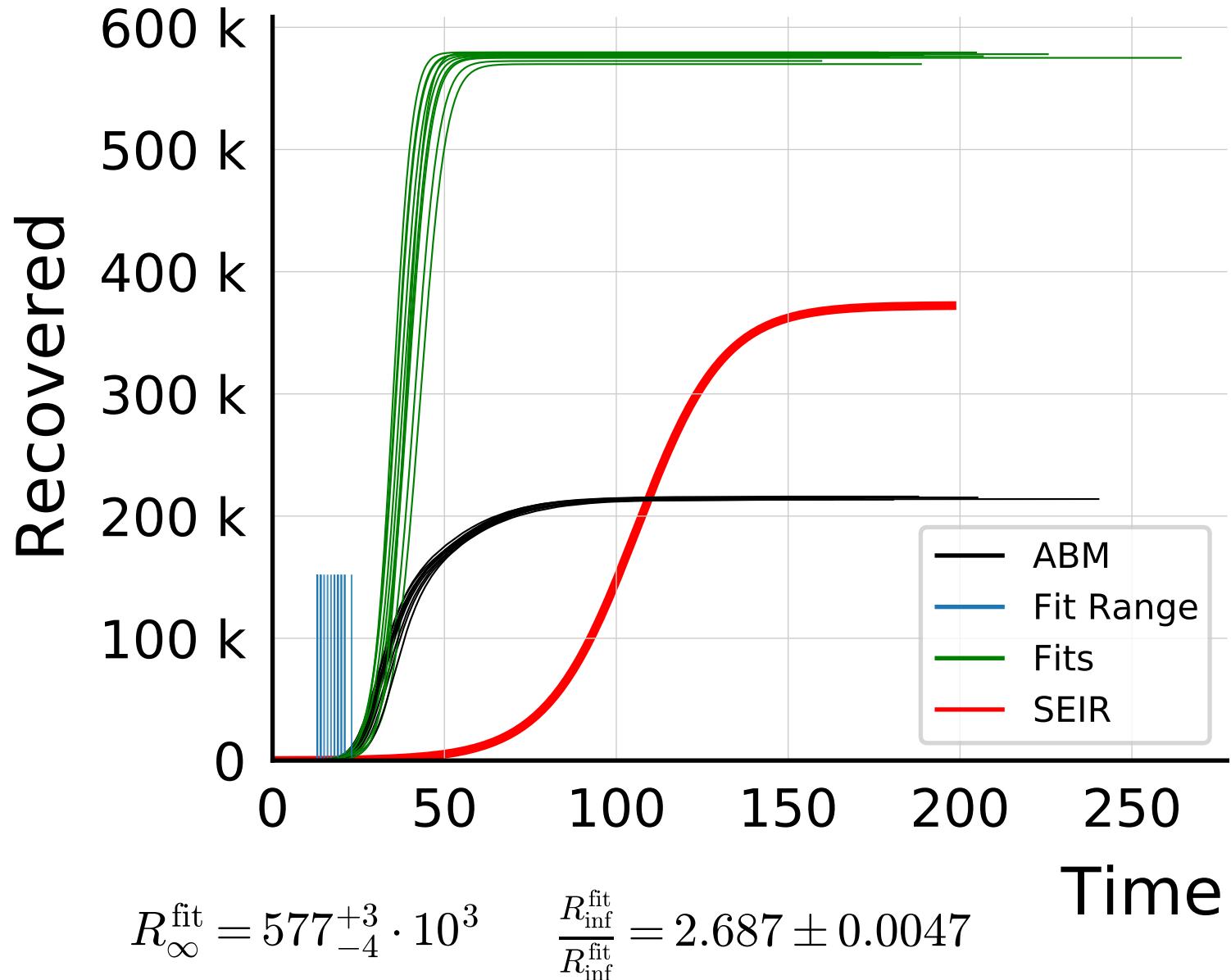
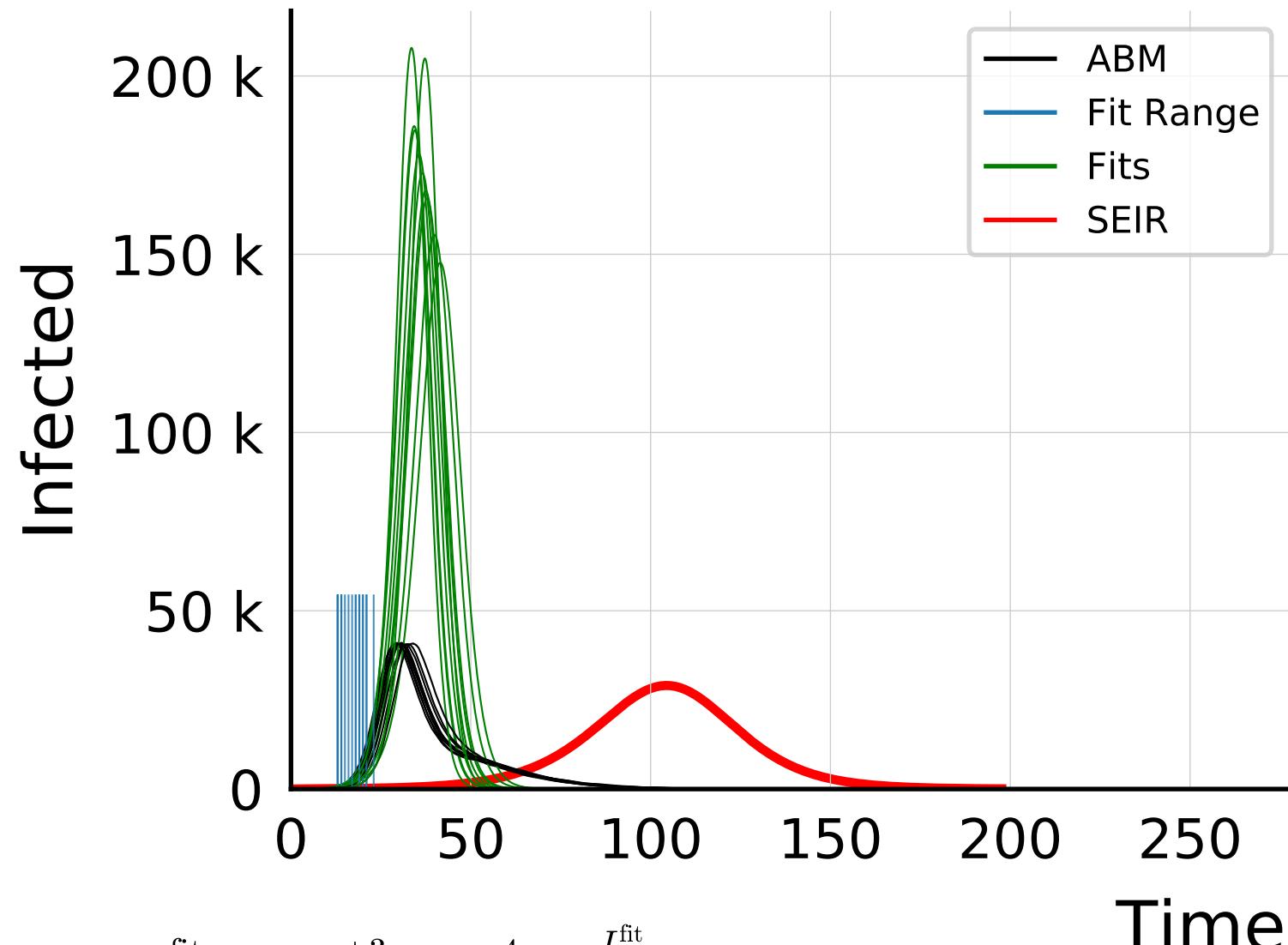


$$R_{\infty}^{\text{fit}} = 5765^{+7}_{-15} \cdot 10^2 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 2.661 \pm 0.0026$$

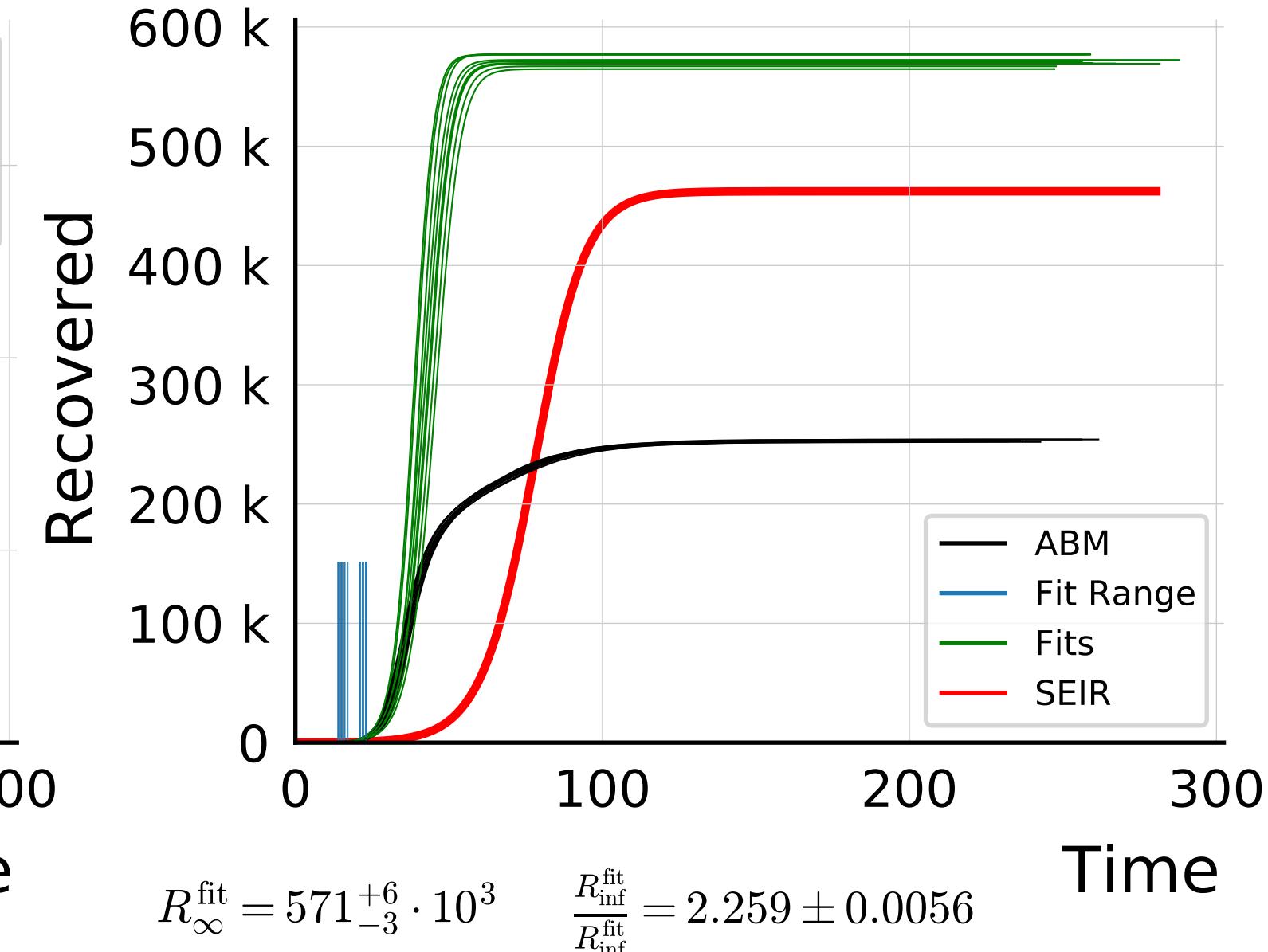
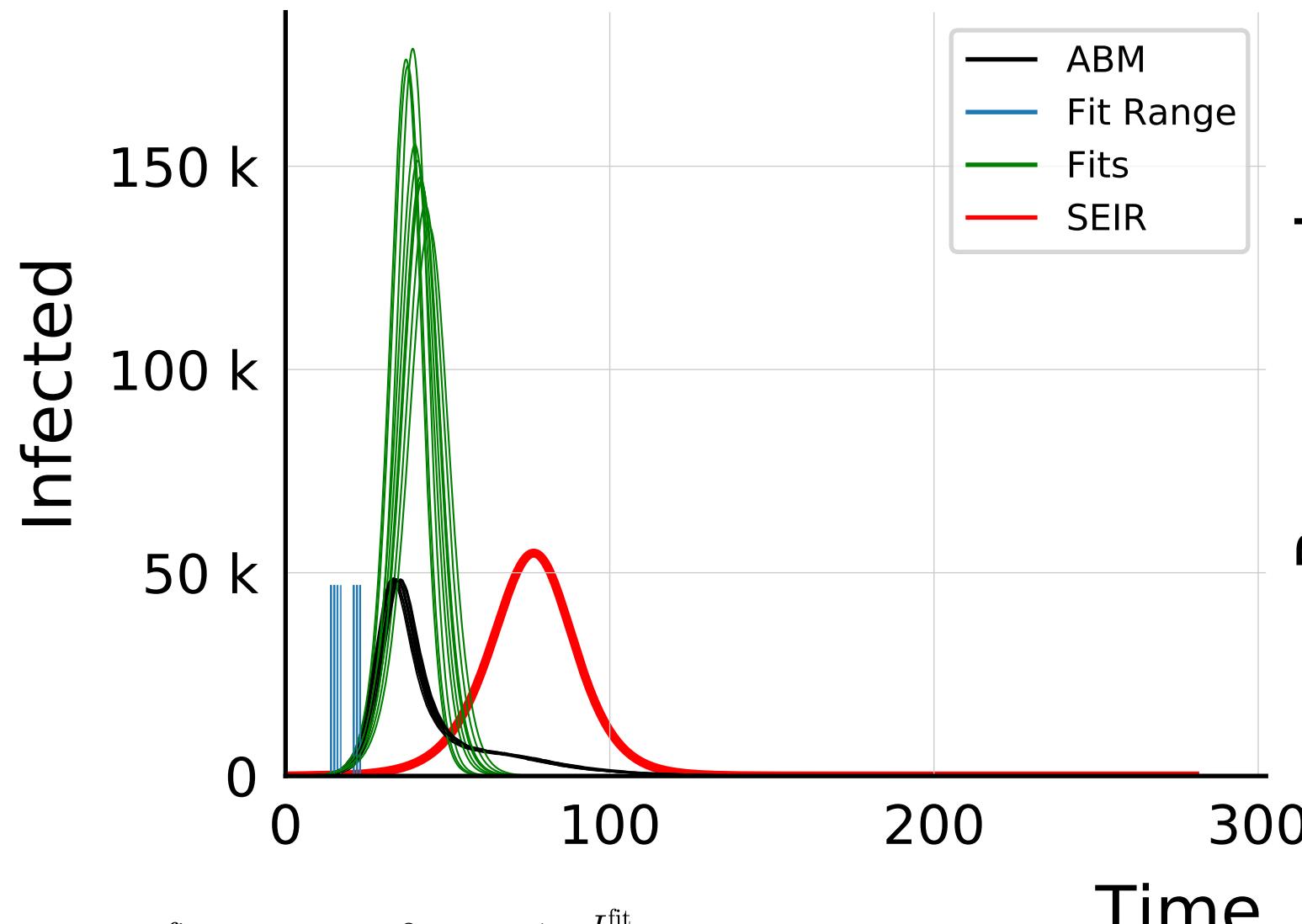
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



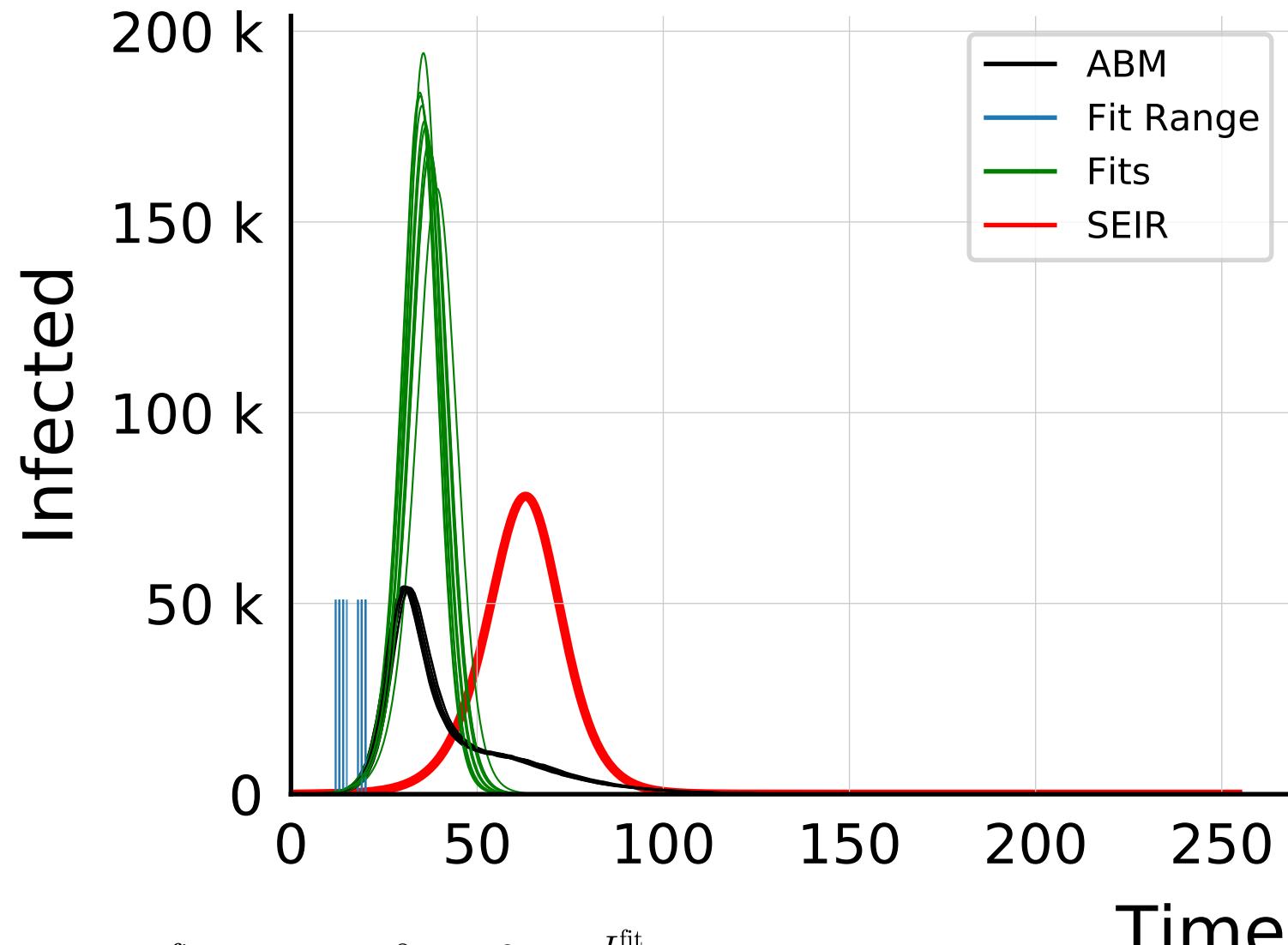
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

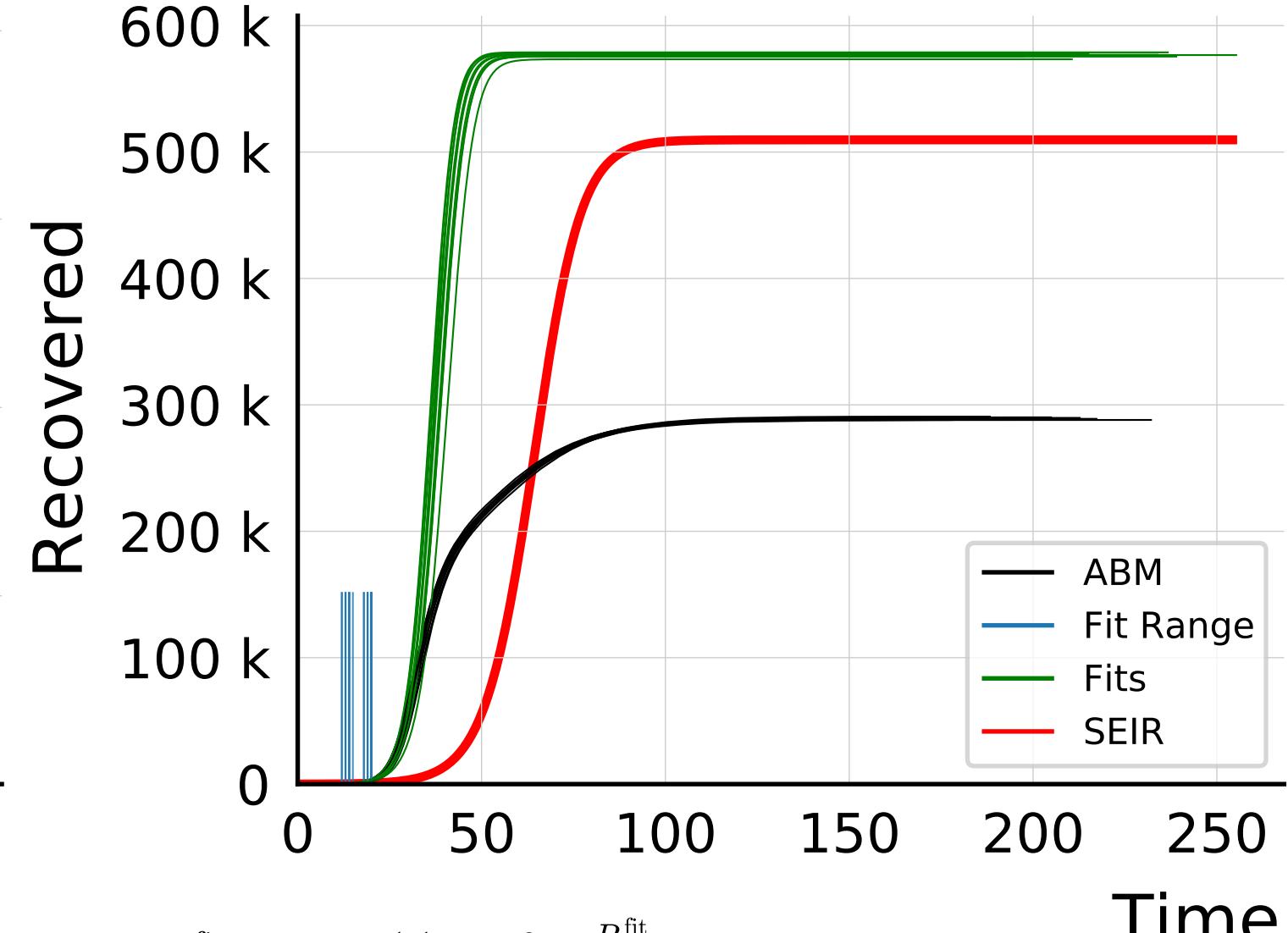


$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



$$I_{\max}^{\text{fit}} = 176_{-7}^{+8} \cdot 10^3$$

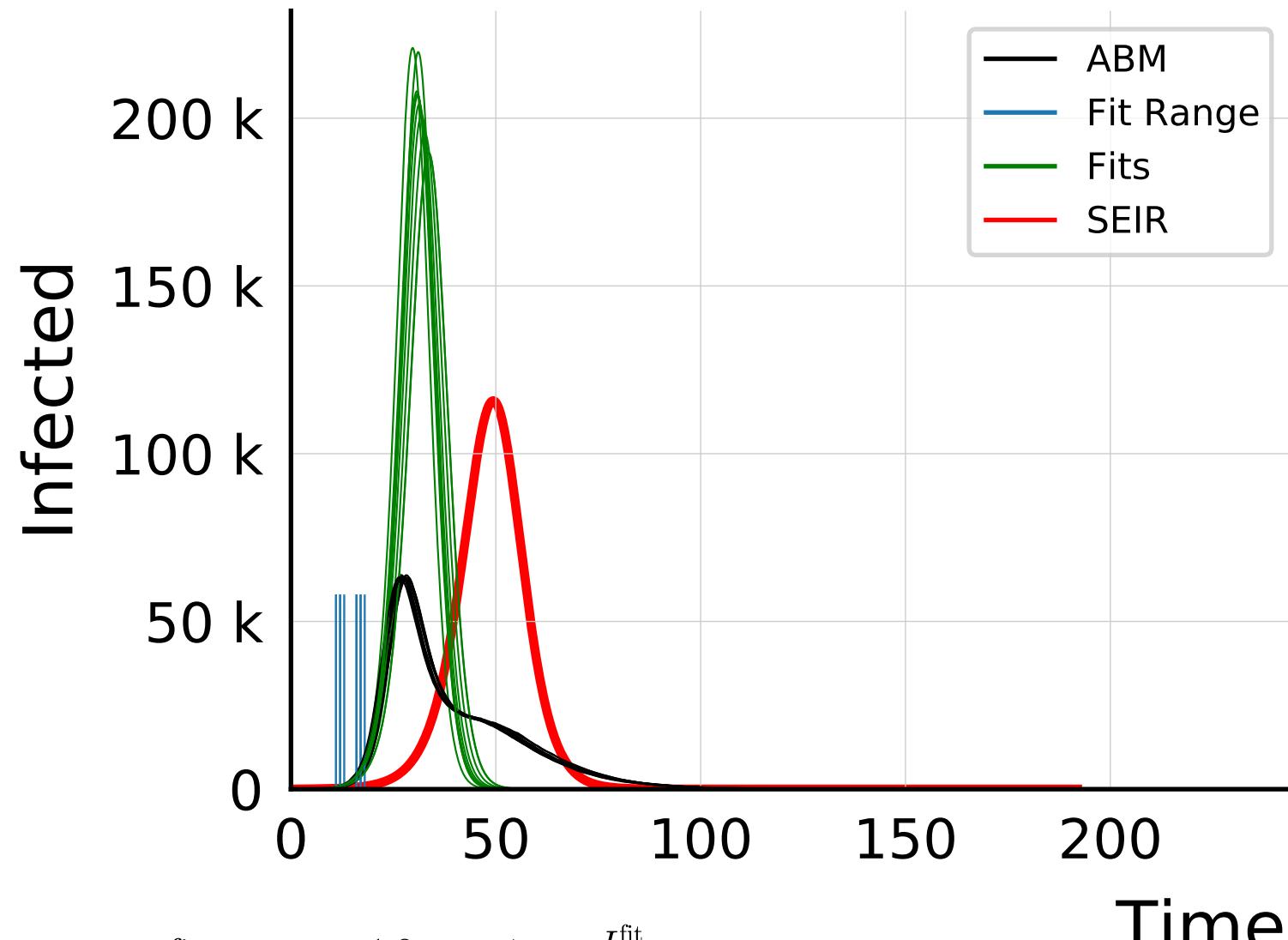
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.24 \pm 0.054$$



$$R_{\infty}^{\text{fit}} = 577_{-1.3}^{+1.1} \cdot 10^3$$

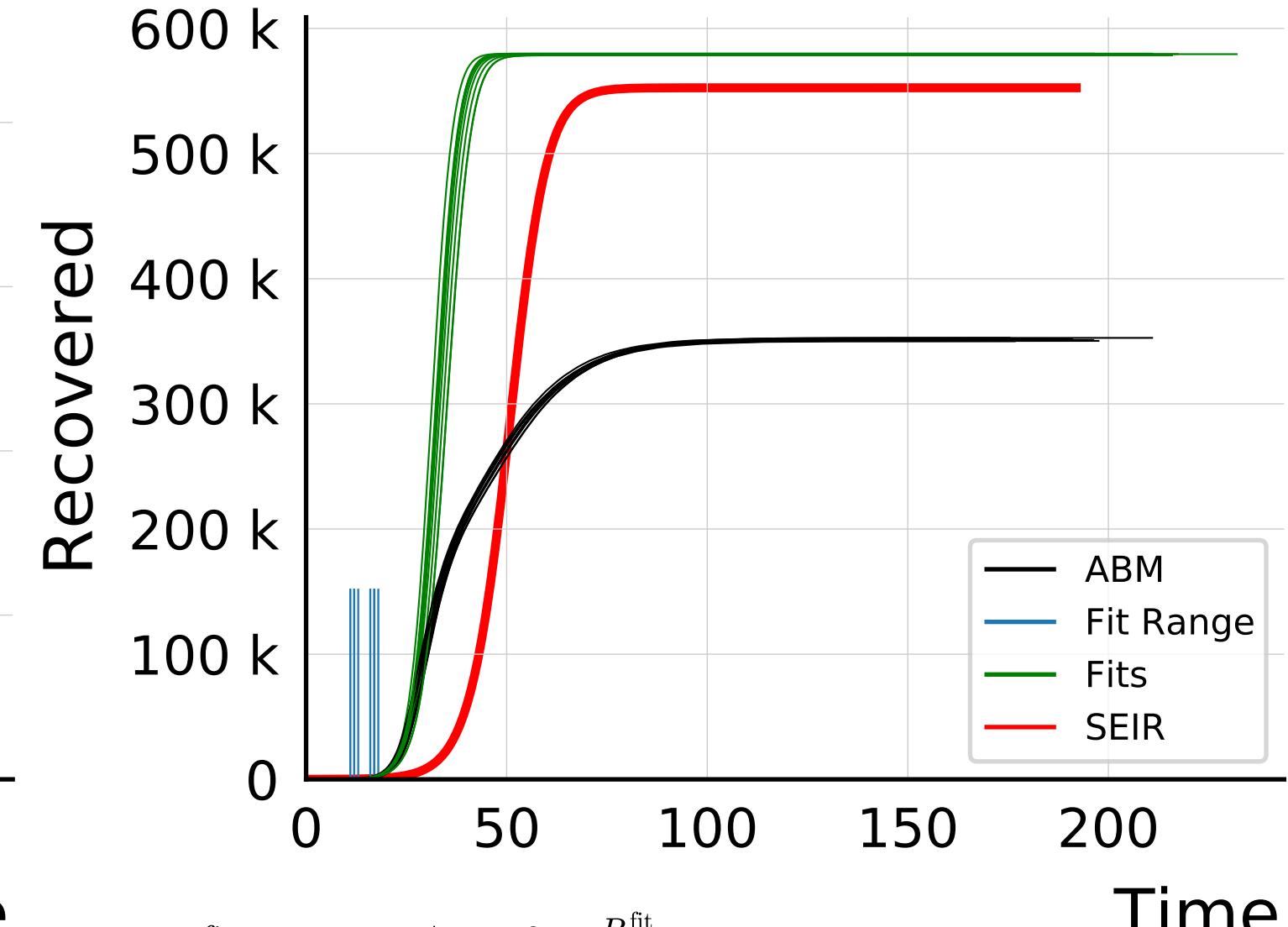
$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.992 \pm 0.0026$$

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



$$I_{\max}^{\text{fit}} = 20^{+1.3}_{-1.5} \cdot 10^4$$

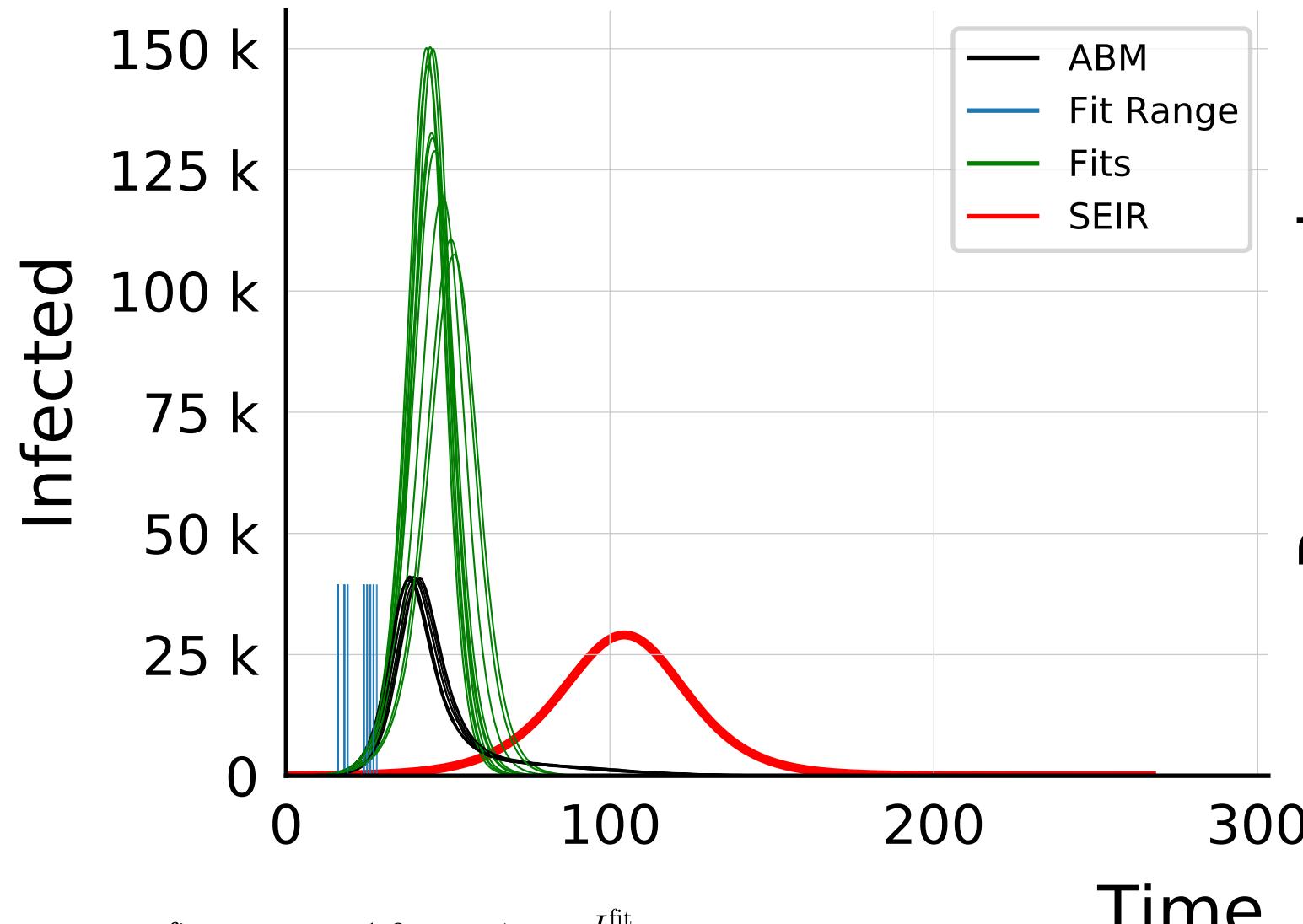
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.22 \pm 0.047$$



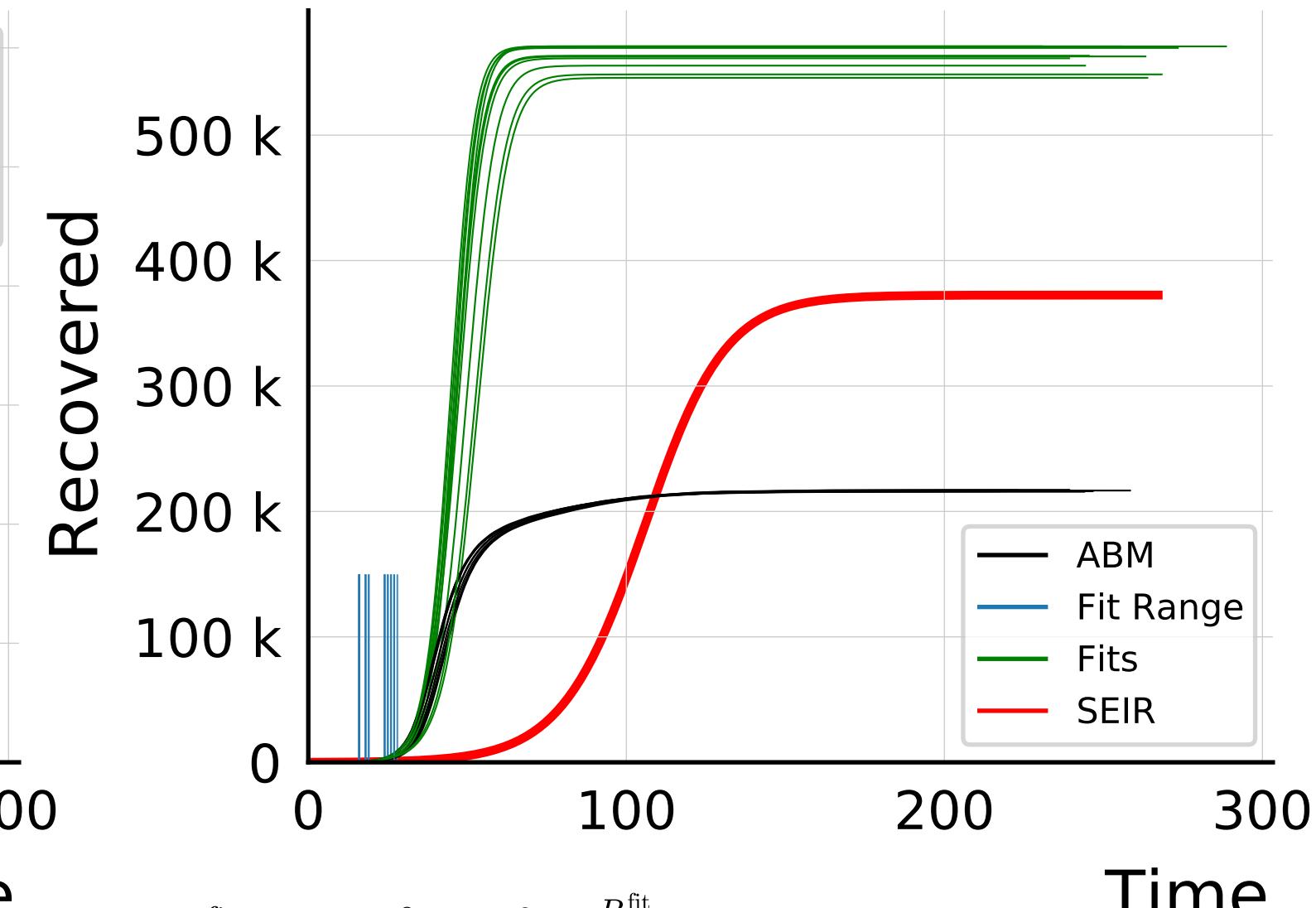
$$R_{\infty}^{\text{fit}} = 5794^{+4}_{-9} \cdot 10^2$$

$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.649 \pm 0.0013$$

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

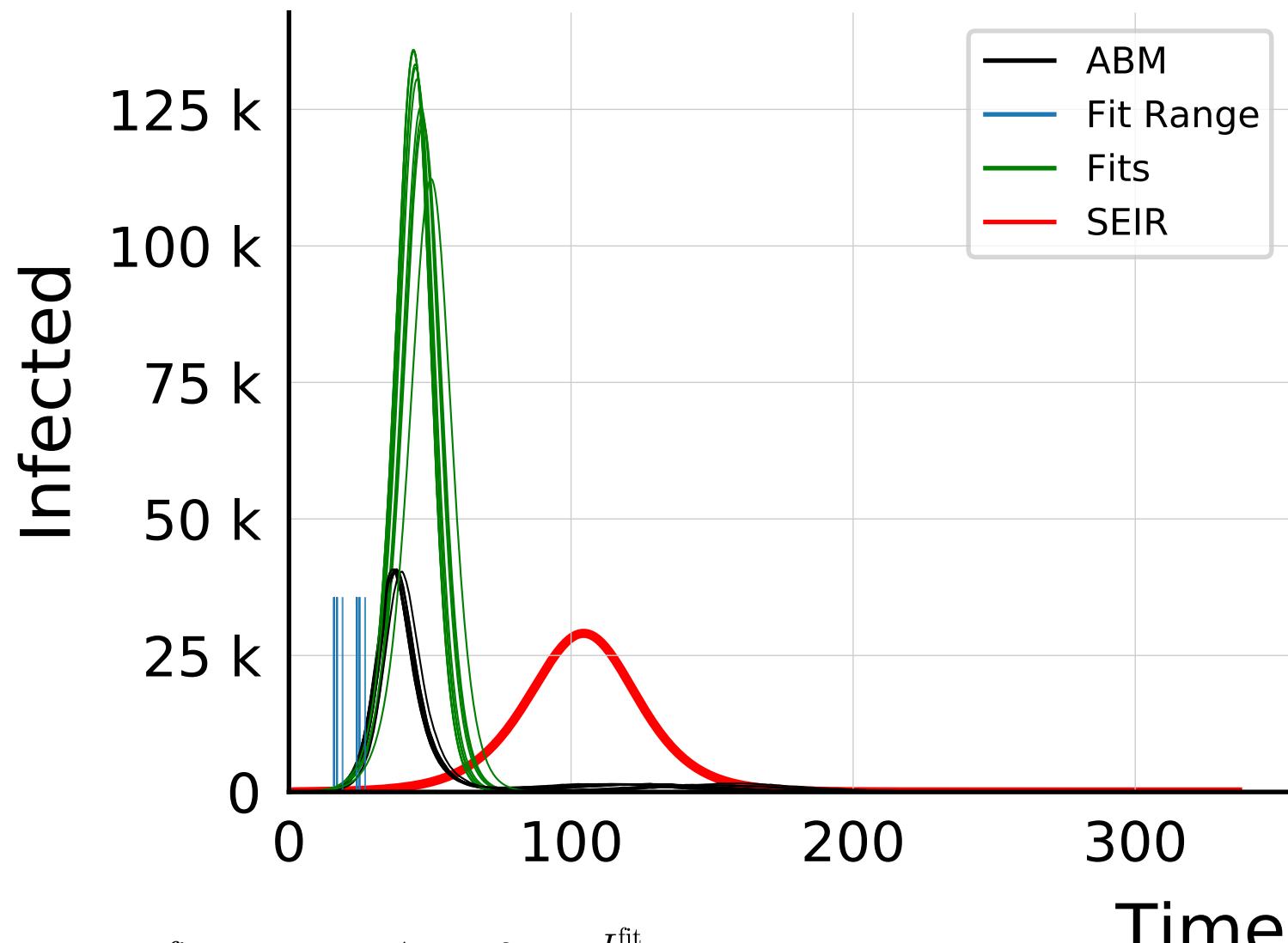


$$I_{\max}^{\text{fit}} = 13_{-2}^{+1.8} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.12$$

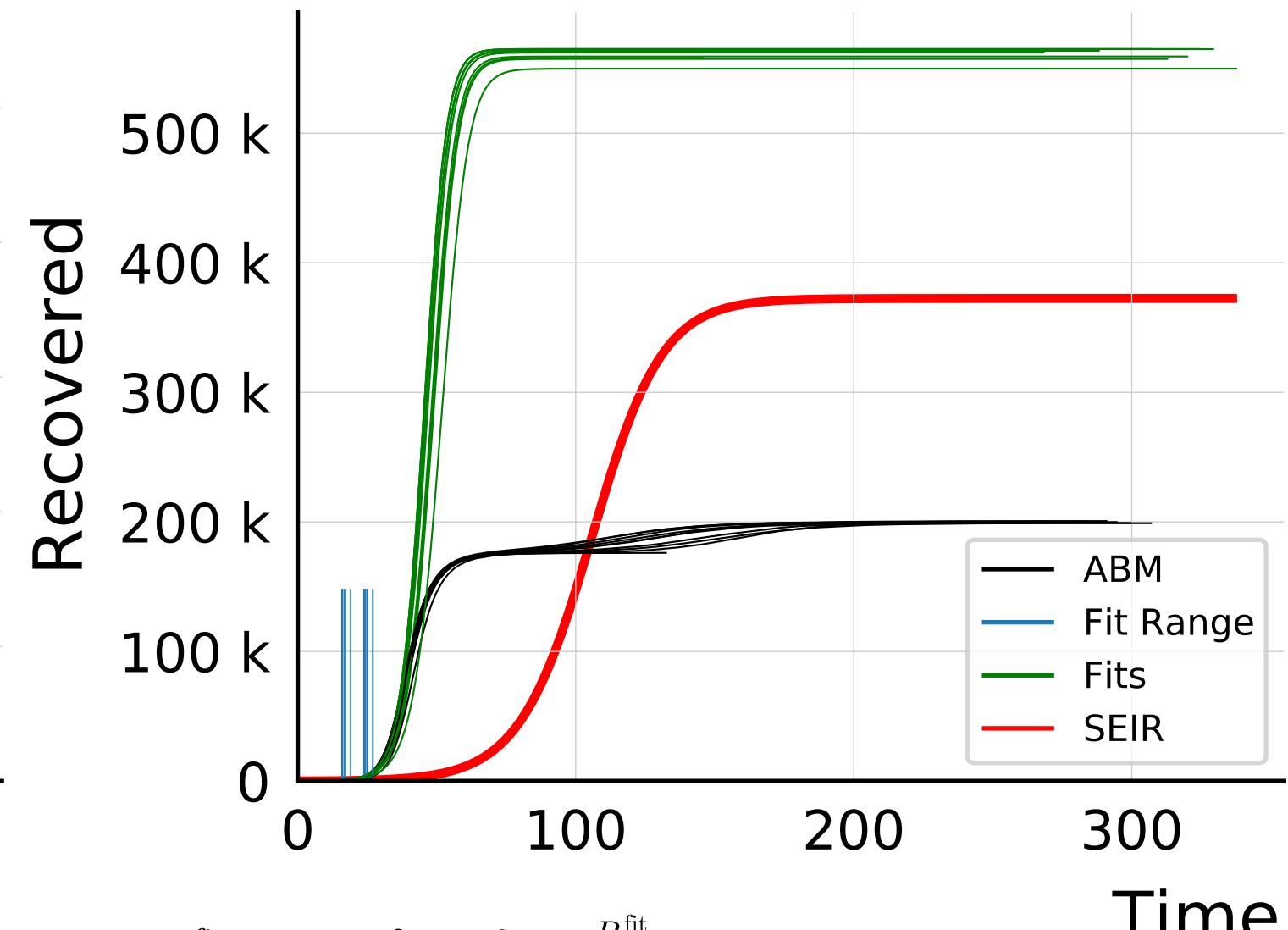


$$R_{\infty}^{\text{fit}} = 563_{-15}^{+8} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.6 \pm 0.013$$

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

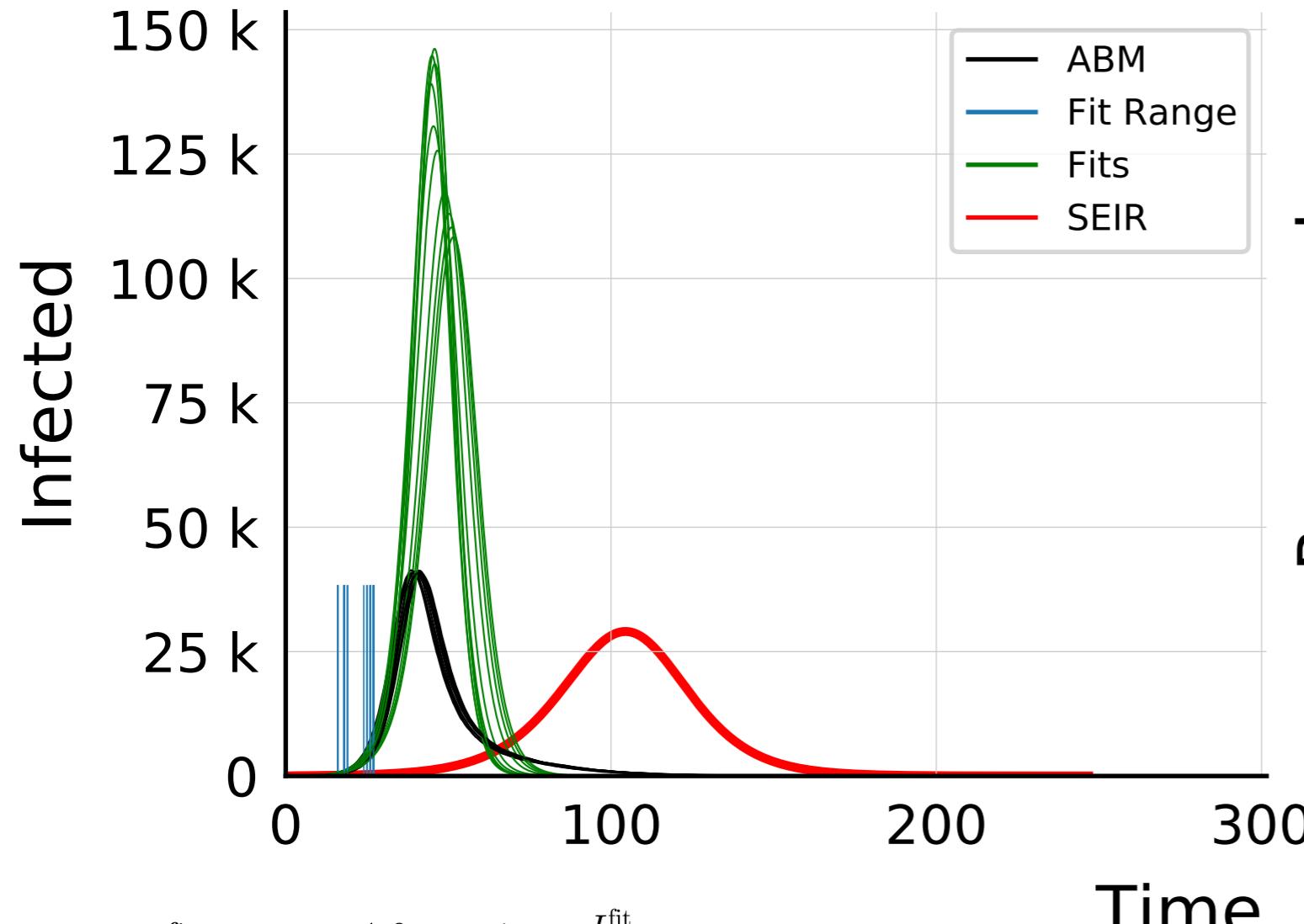


$$I_{\max}^{\text{fit}} = 132_{-9}^{+4} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.17 \pm 0.056$$

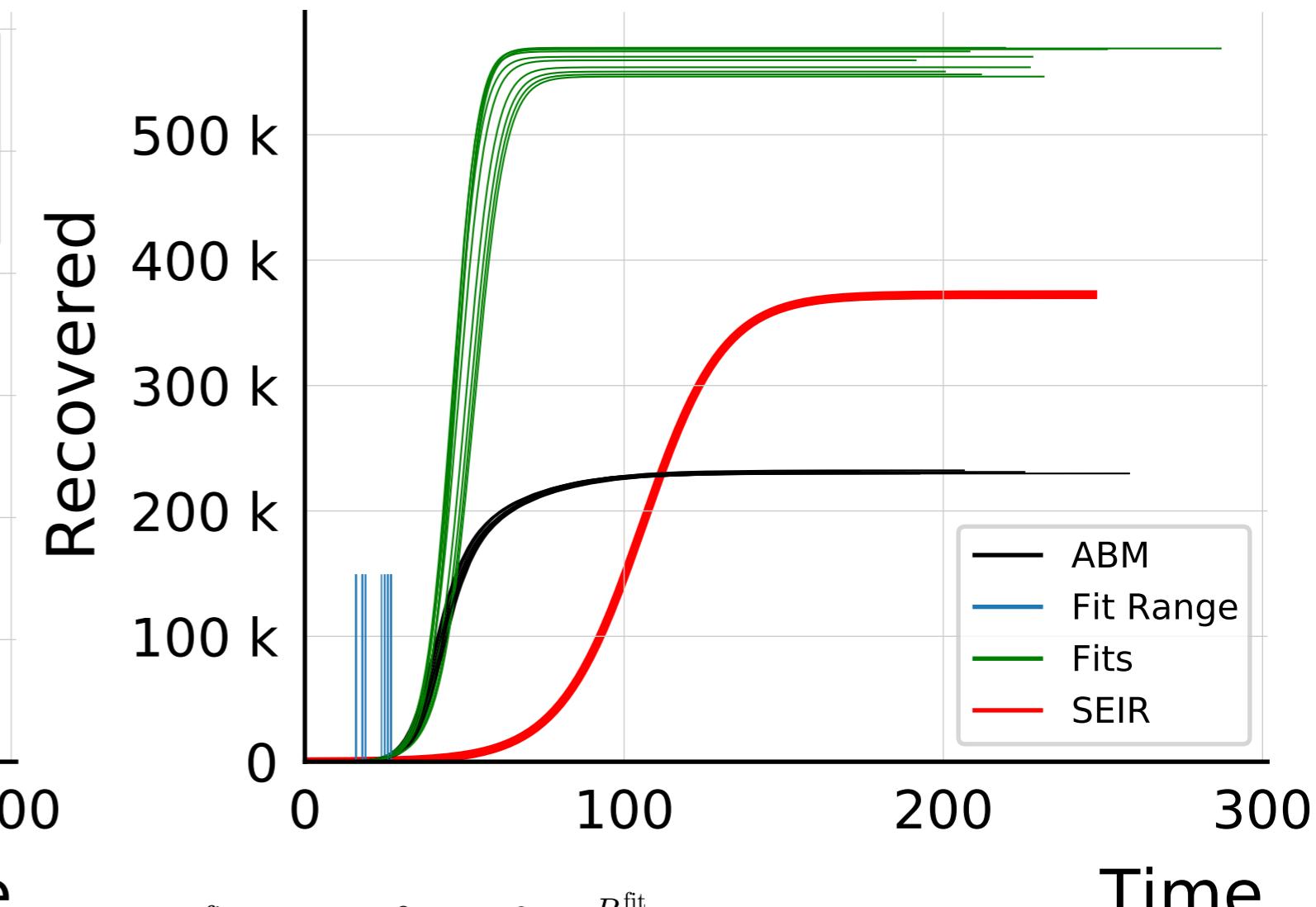


$$R_{\infty}^{\text{fit}} = 563_{-5}^{+2} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.85 \pm 0.035$$

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

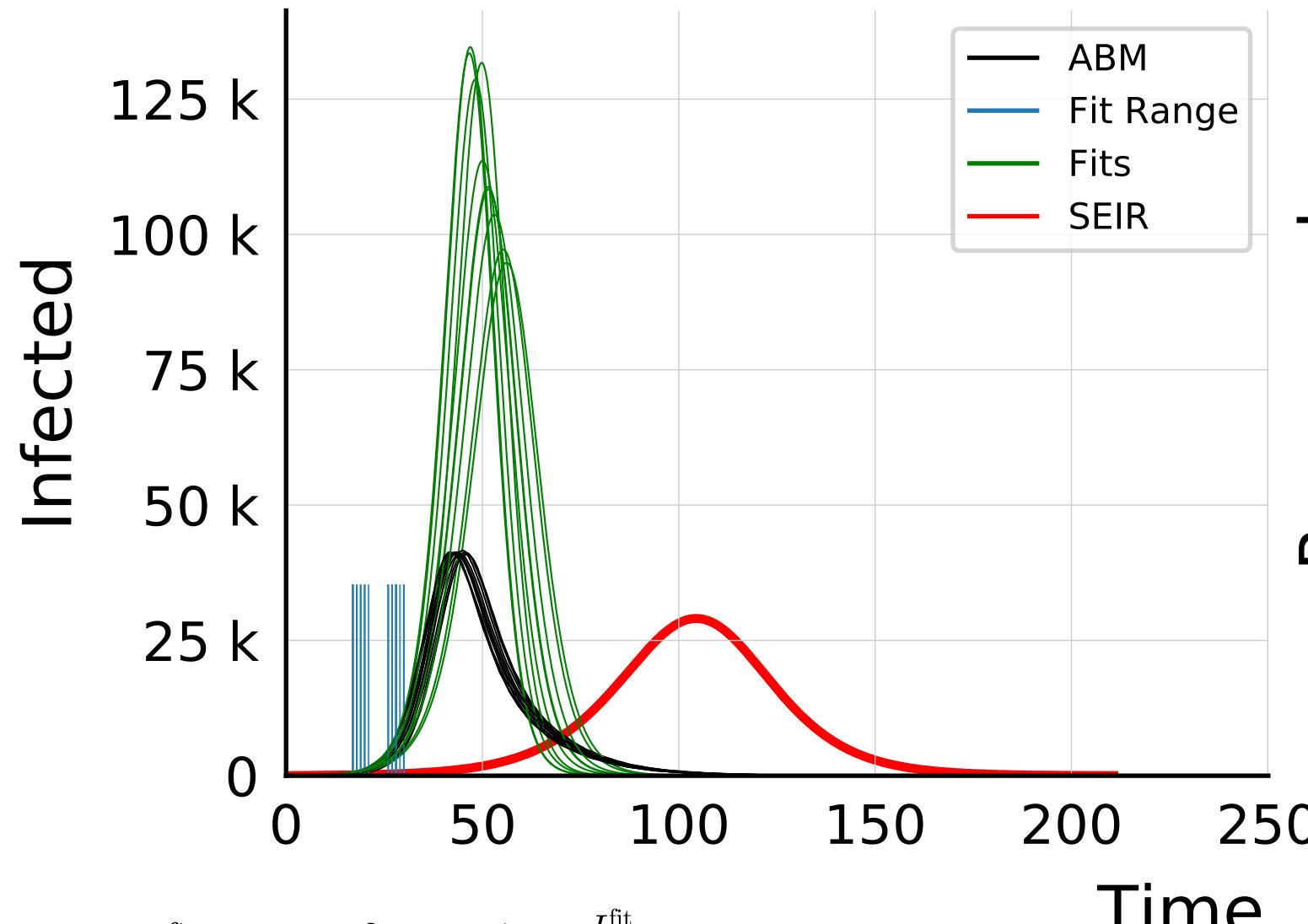


$$I_{\max}^{\text{fit}} = 13_{-1.8}^{+1.6} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.1 \pm 0.11$$

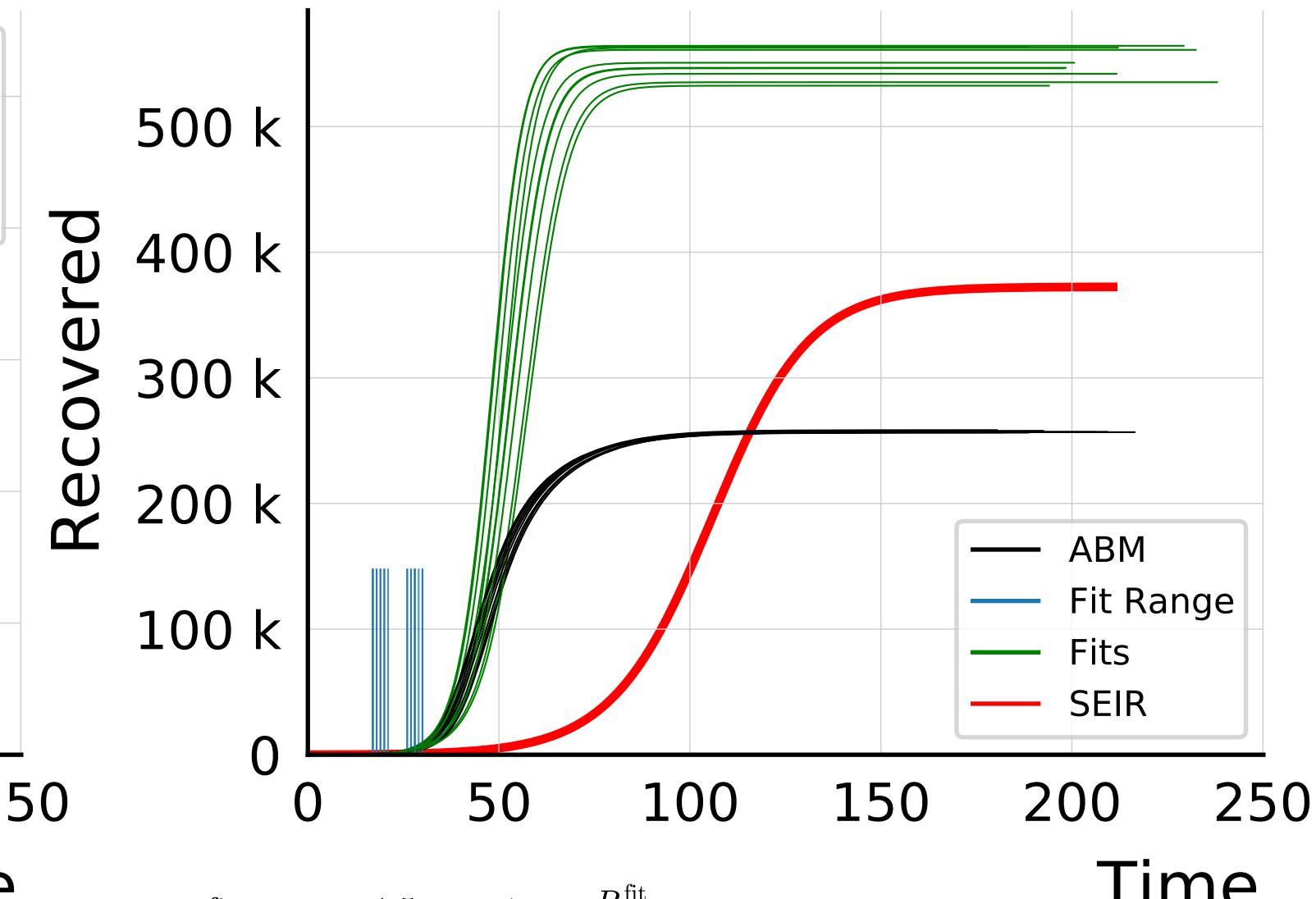


$$R_{\infty}^{\text{fit}} = 561_{-13}^{+8} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.42 \pm 0.012$$

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

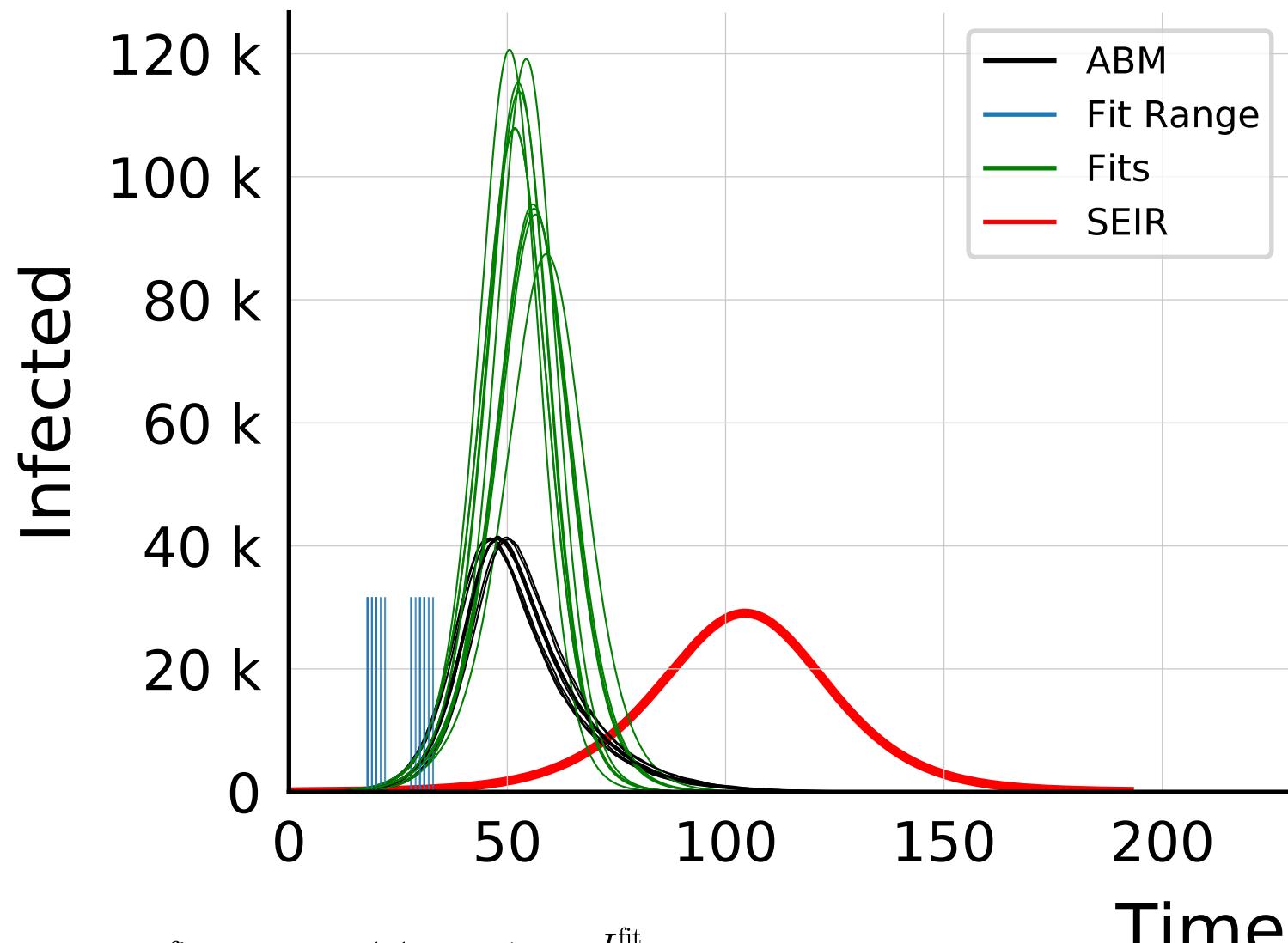


$$I_{\max}^{\text{fit}} = 11_{-1.3}^{+2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.8 \pm 0.11$$

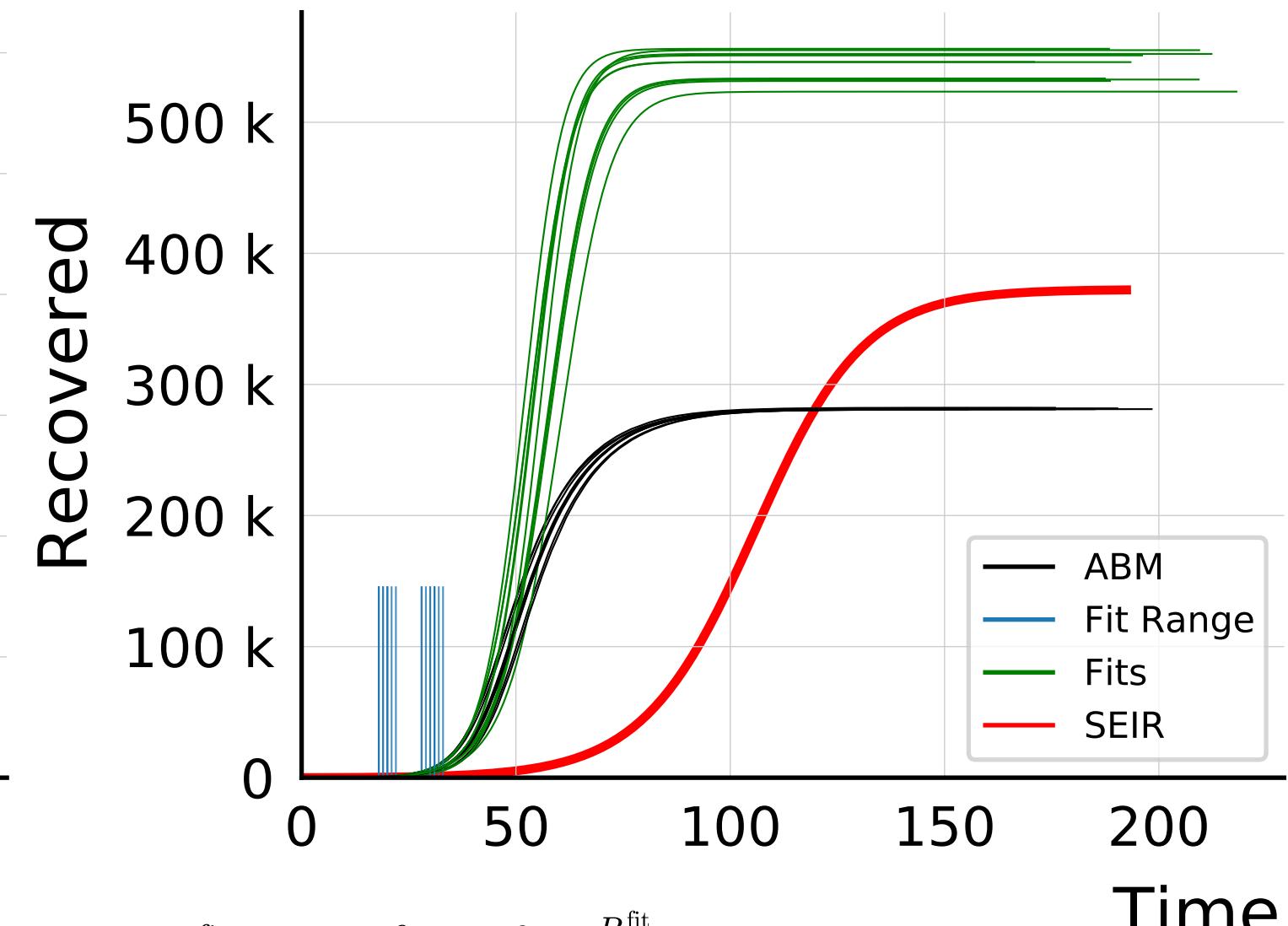


$$R_{\infty}^{\text{fit}} = 55_{-1.3}^{+1.5} \cdot 10^4 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 2.14 \pm 0.014$$

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

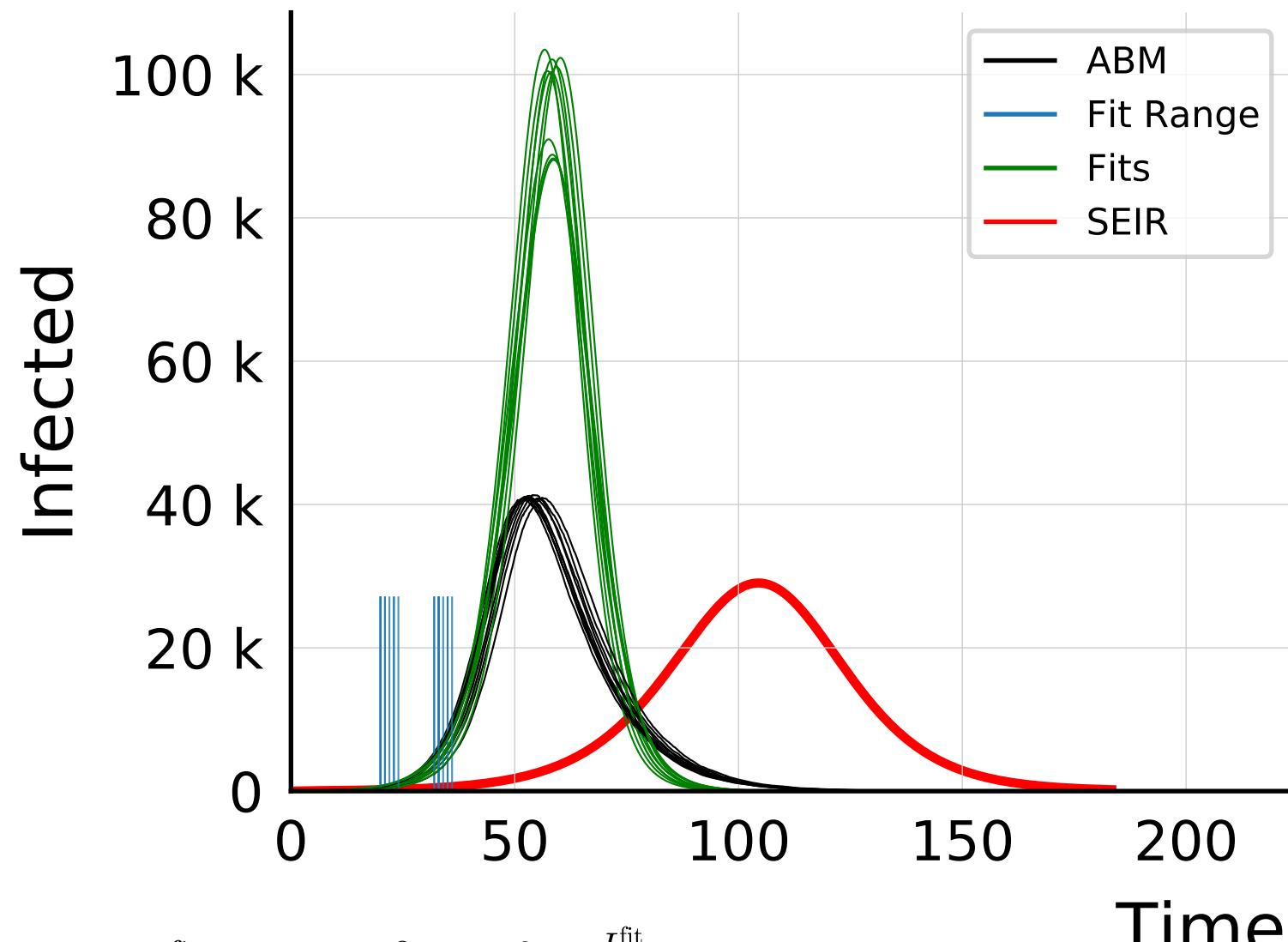


$$I_{\max}^{\text{fit}} = 11^{+1.1}_{-1.4} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.56 \pm 0.088$$

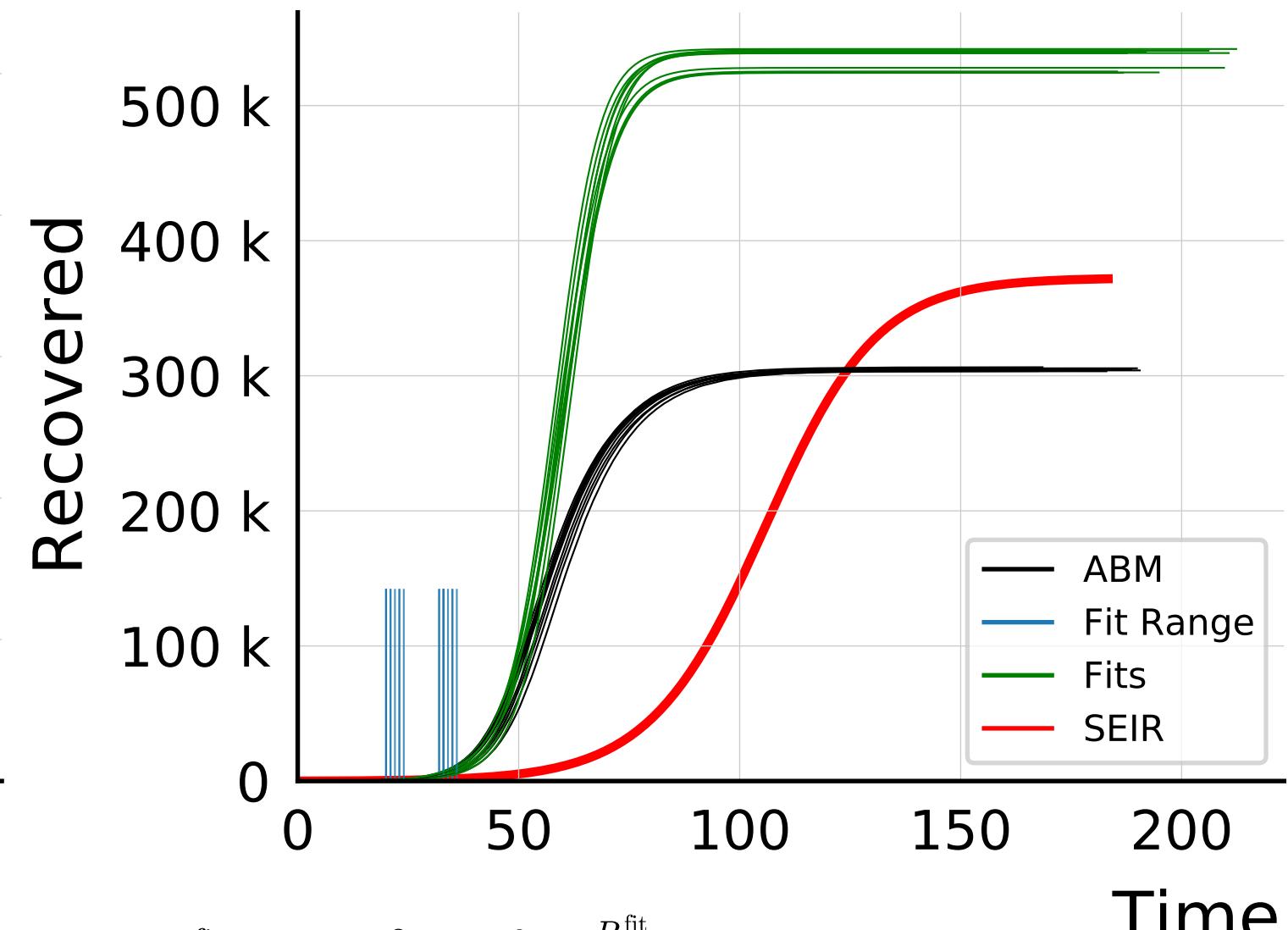


$$R_{\infty}^{\text{fit}} = 546^{+9}_{-14} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.93 \pm 0.012$$

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

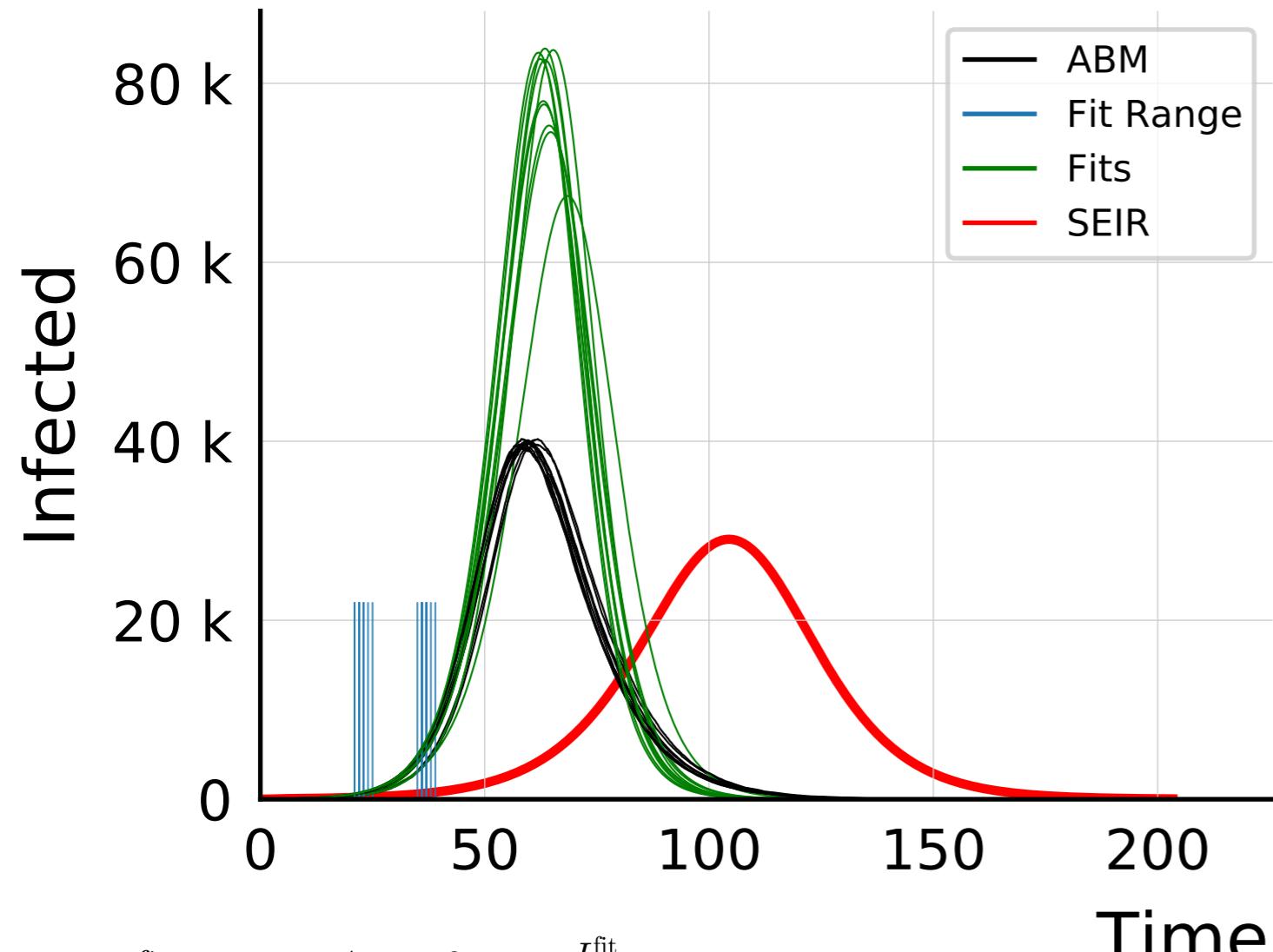


$$I_{\max}^{\text{fit}} = 100_{-12}^{+3} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.36 \pm 0.048$$



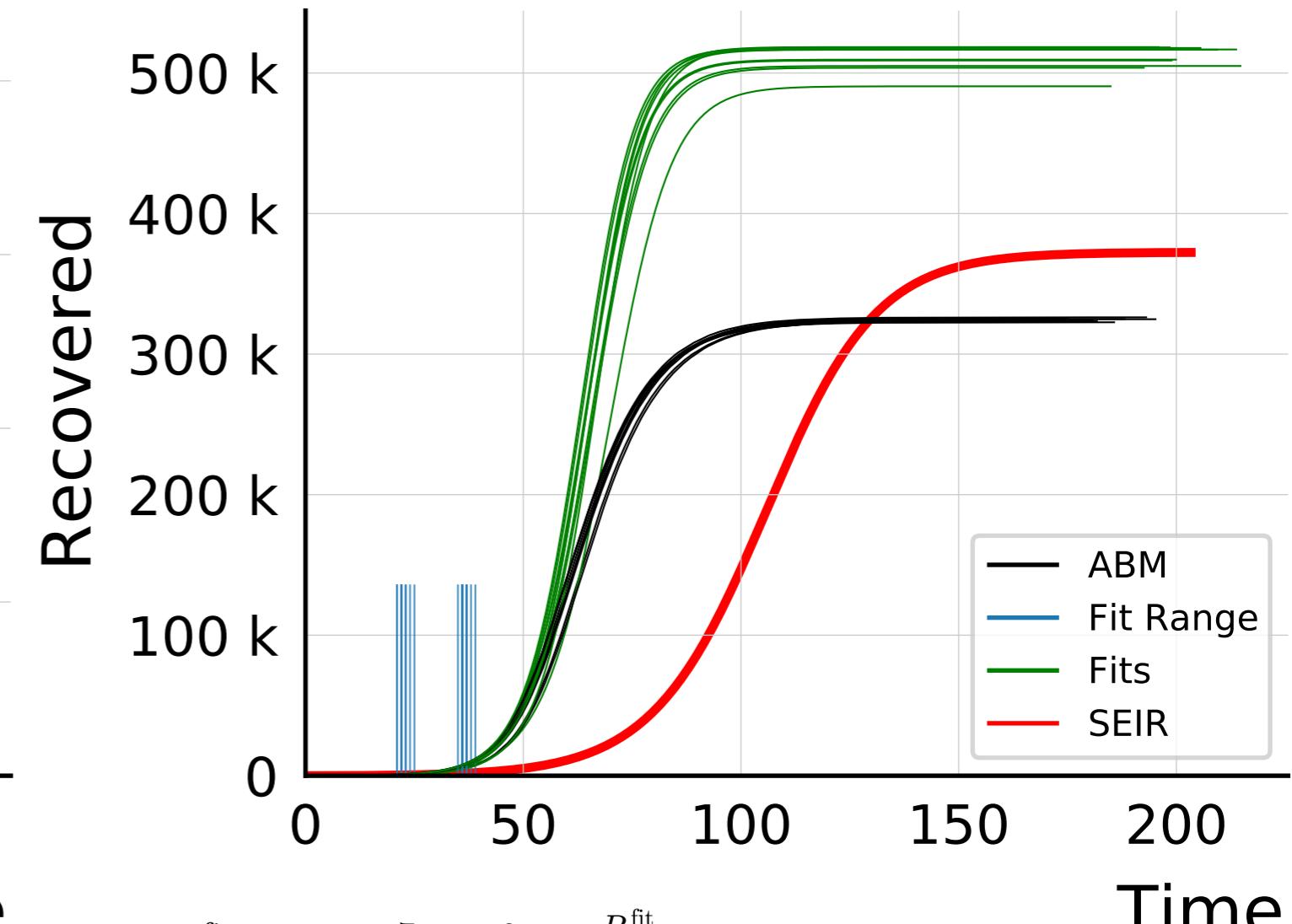
$$R_{\infty}^{\text{fit}} = 538_{-14}^{+3} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.754 \pm 0.0082$$

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



$$I_{\max}^{\text{fit}} = 79^{+4}_{-5} \cdot 10^3$$

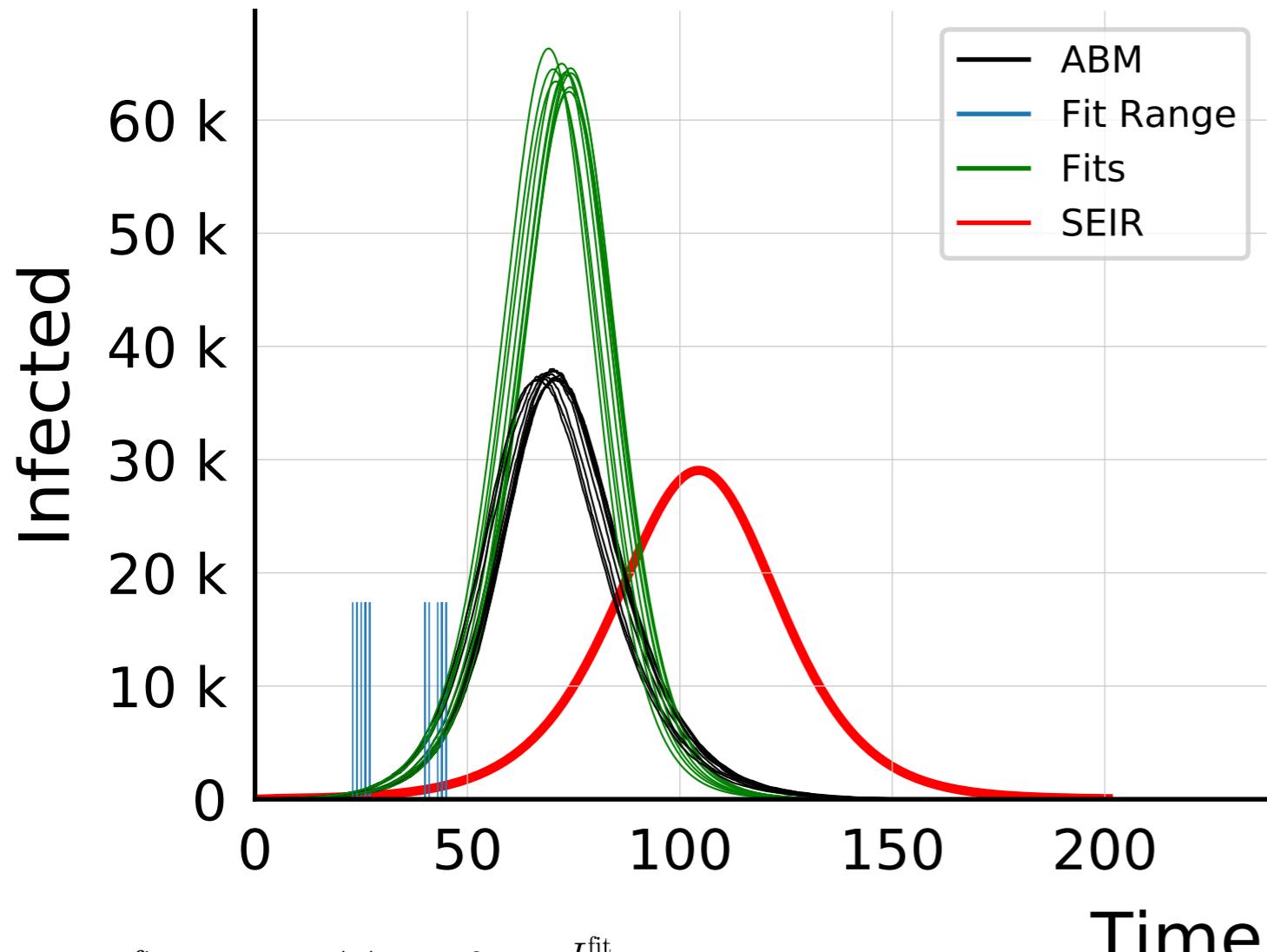
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.98 \pm 0.043$$



$$R_{\infty}^{\text{fit}} = 512^{+7}_{-8} \cdot 10^3$$

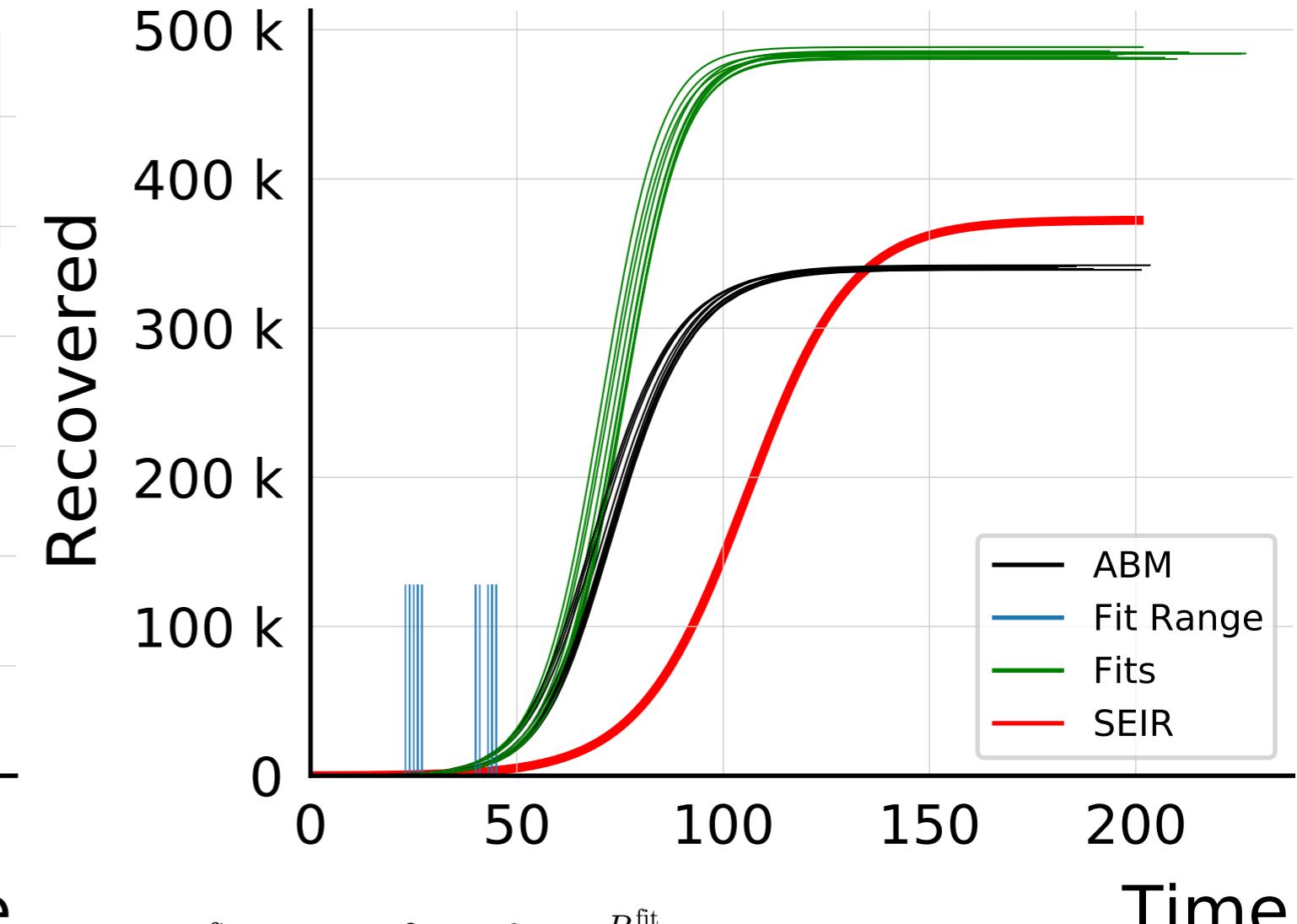
$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.575 \pm 0.0082$$

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



$$I_{\max}^{\text{fit}} = 64^{+1.1}_{-1.1} \cdot 10^3$$

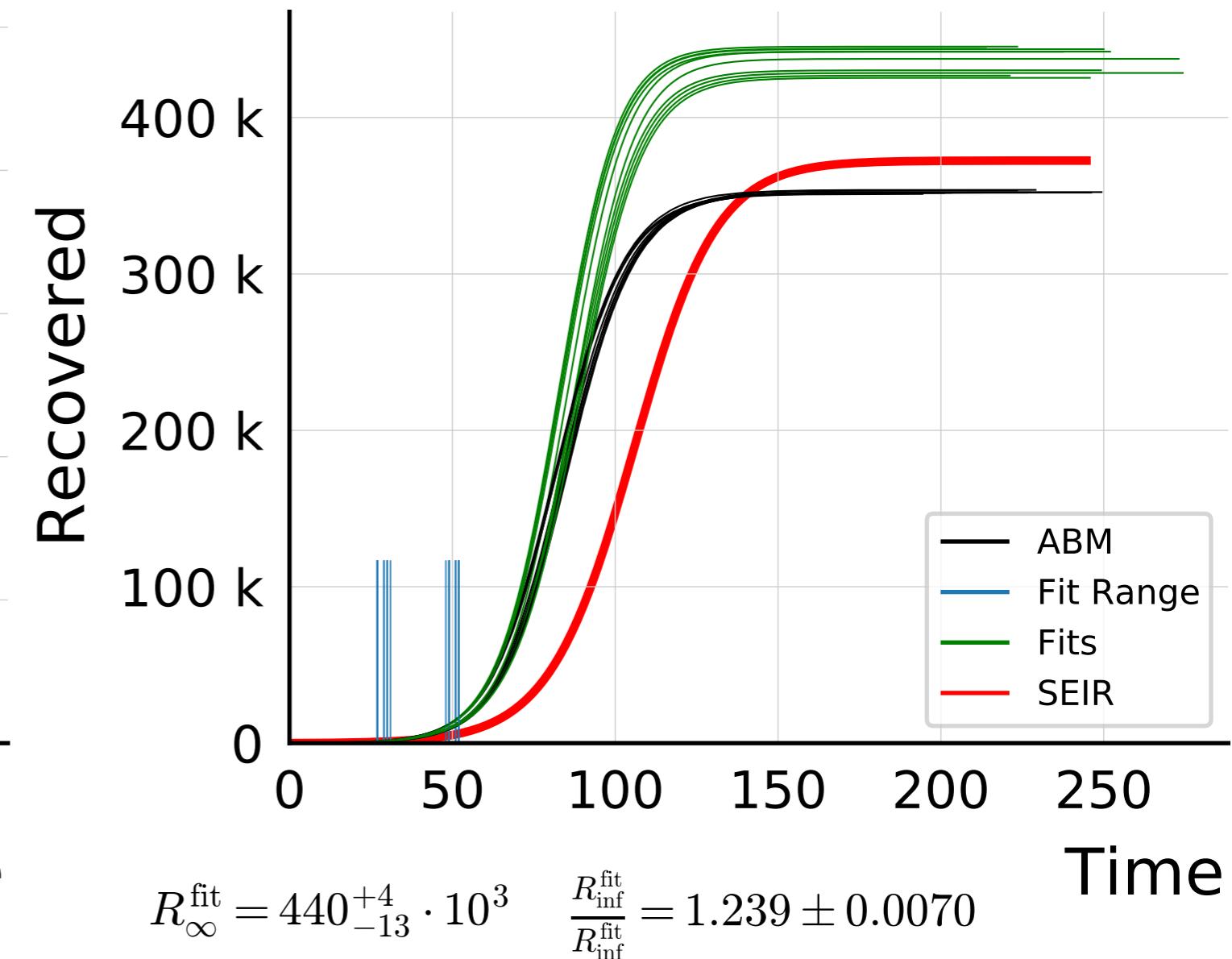
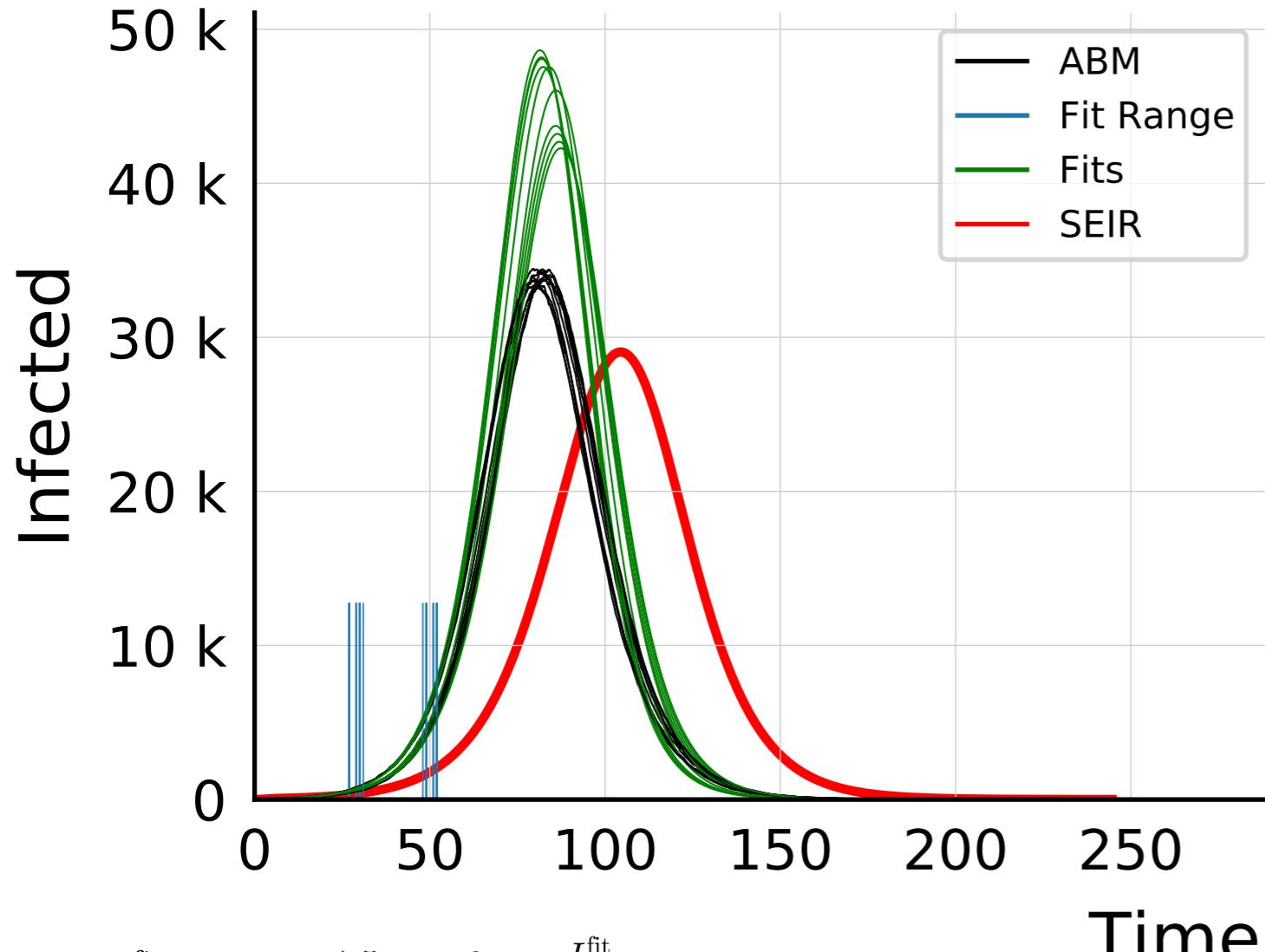
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.71 \pm 0.011$$



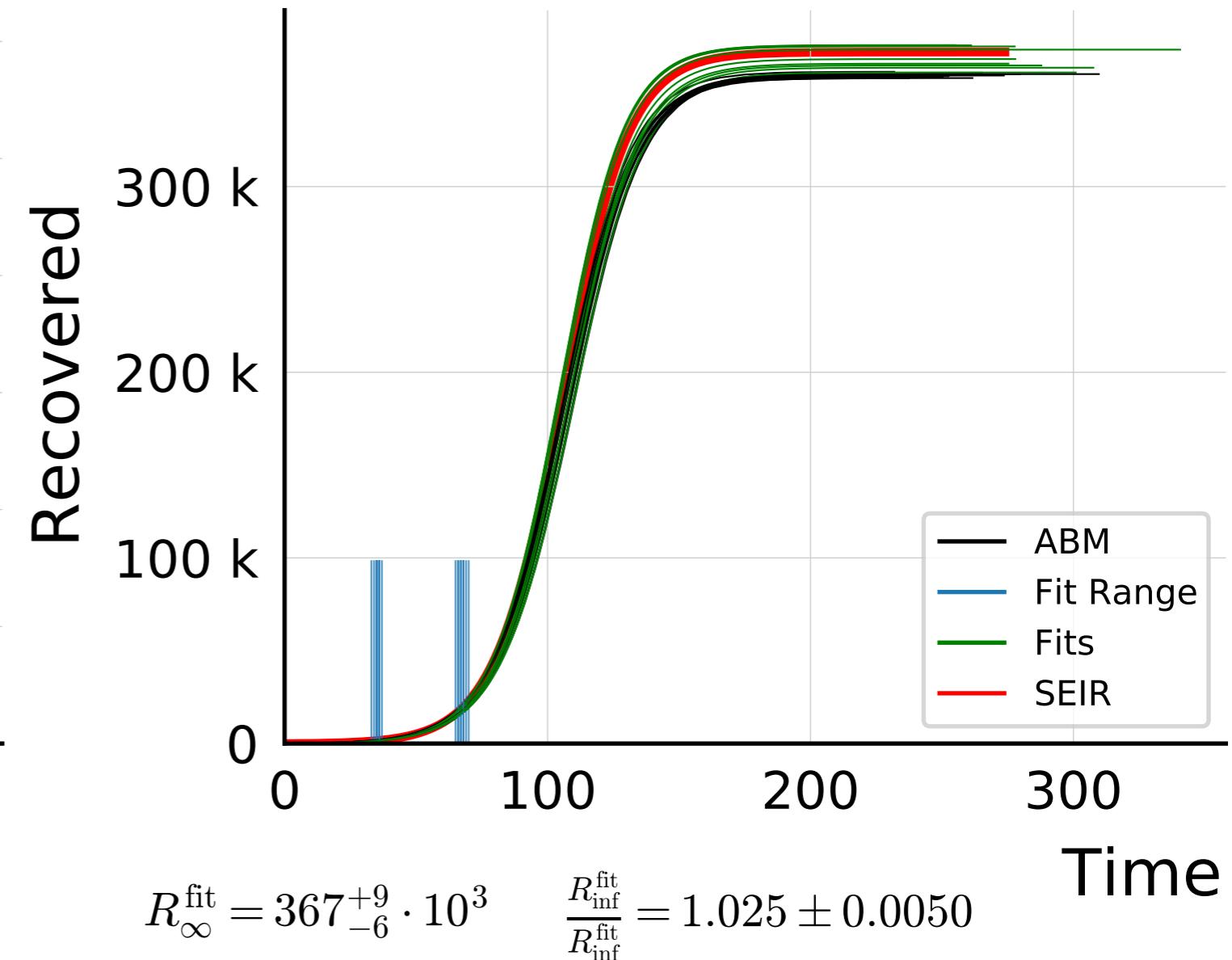
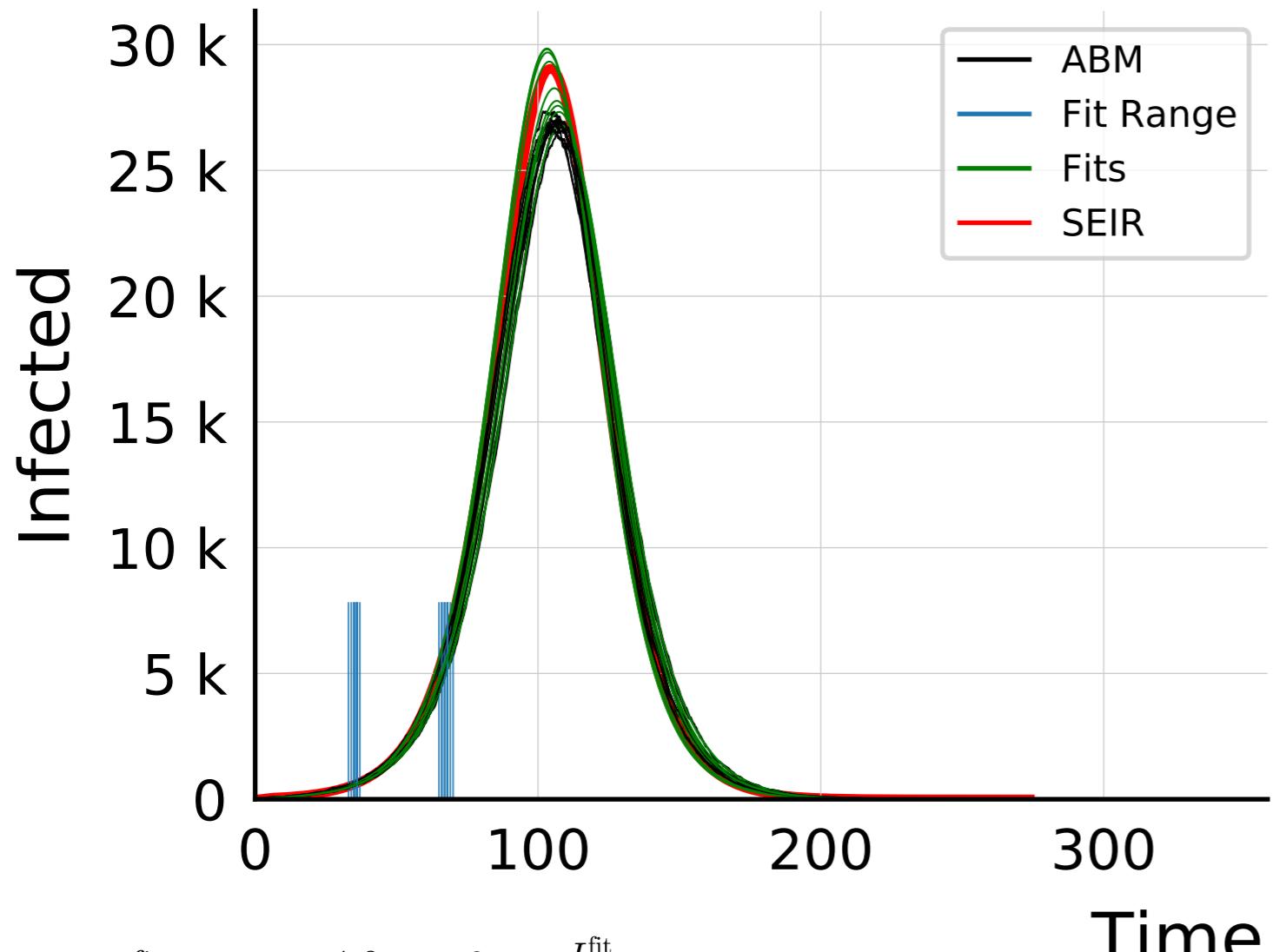
$$R_{\infty}^{\text{fit}} = 484^{+2}_{-2} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 1.422 \pm 0.0025$$

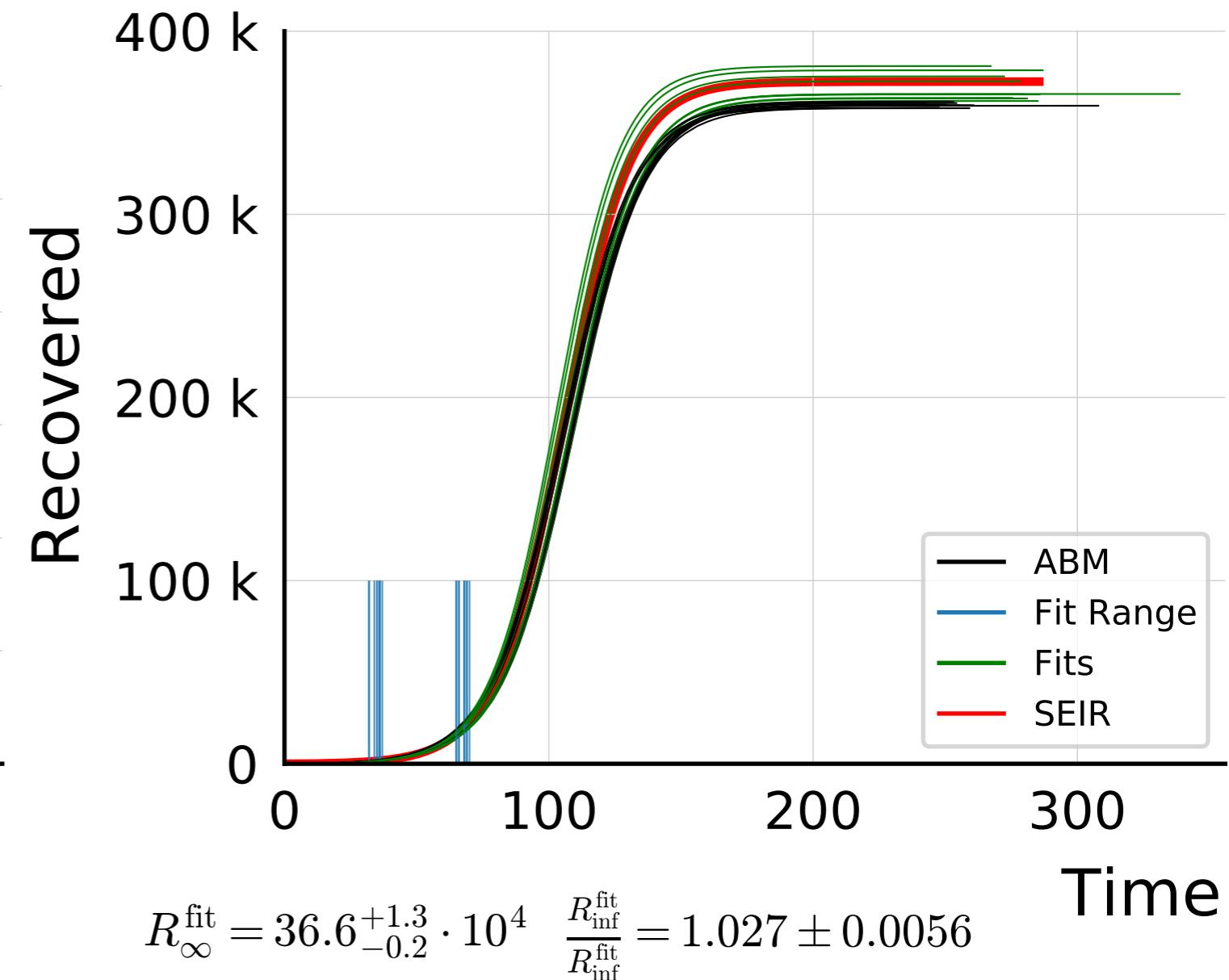
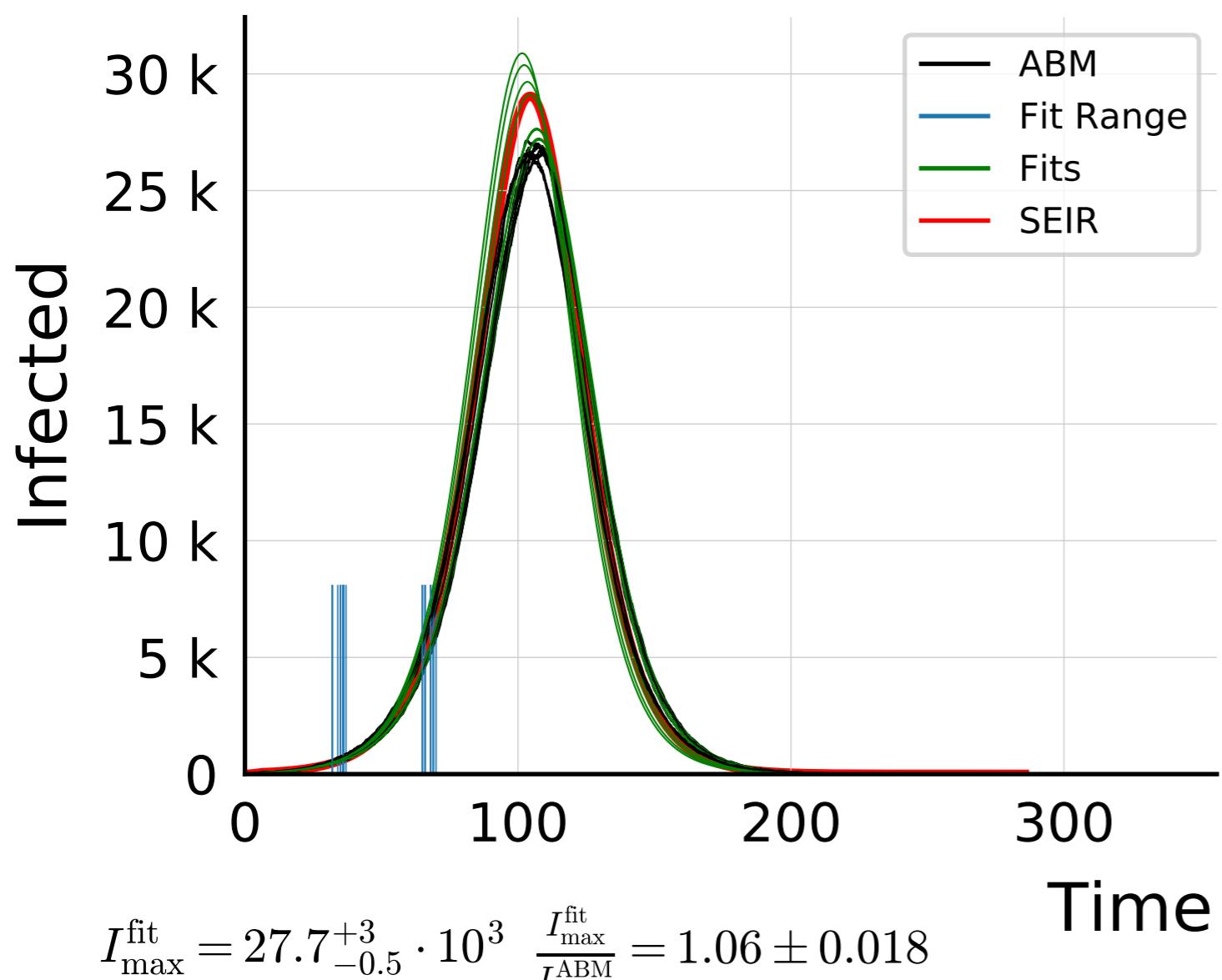
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.7$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



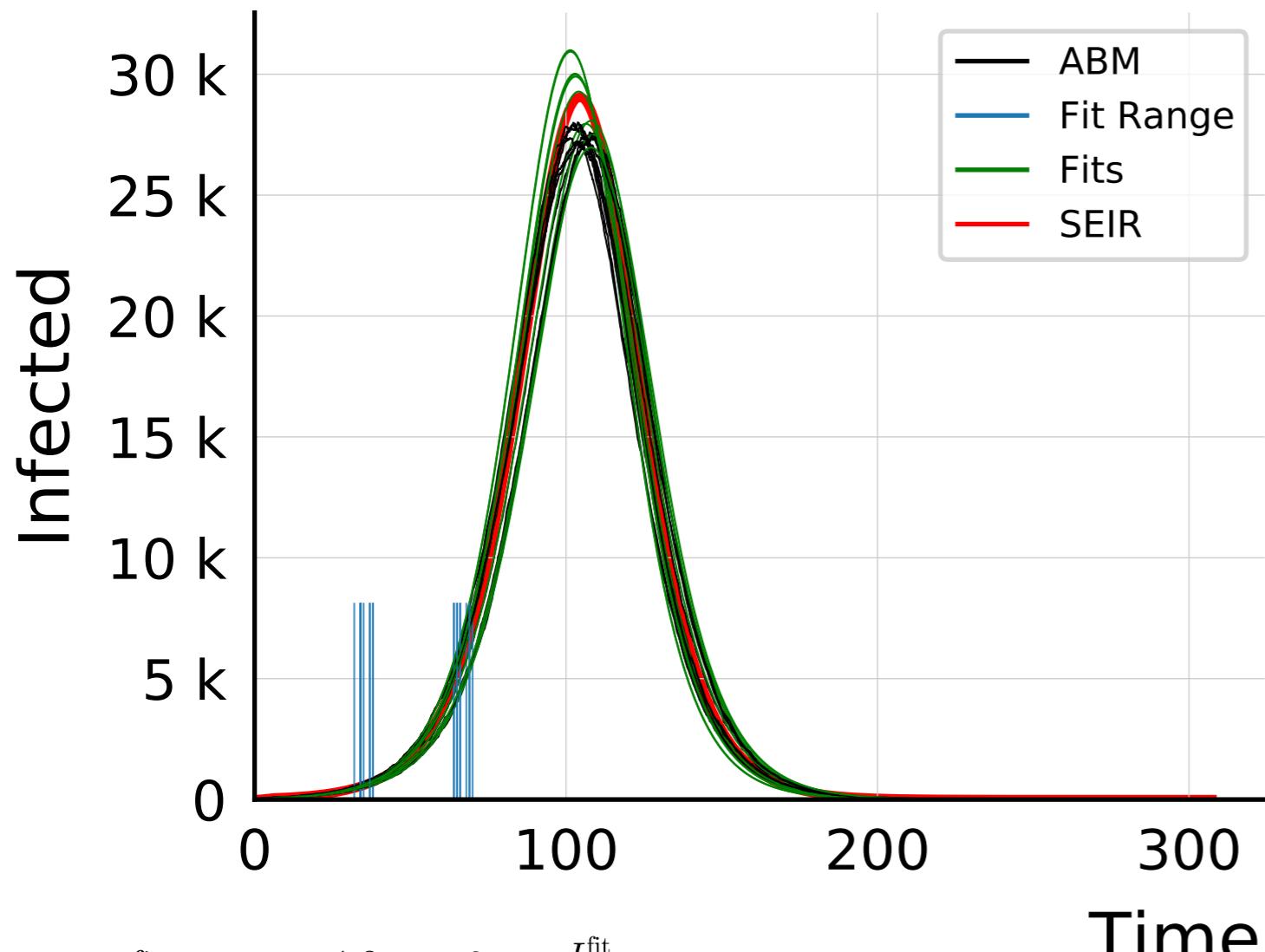
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.95$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



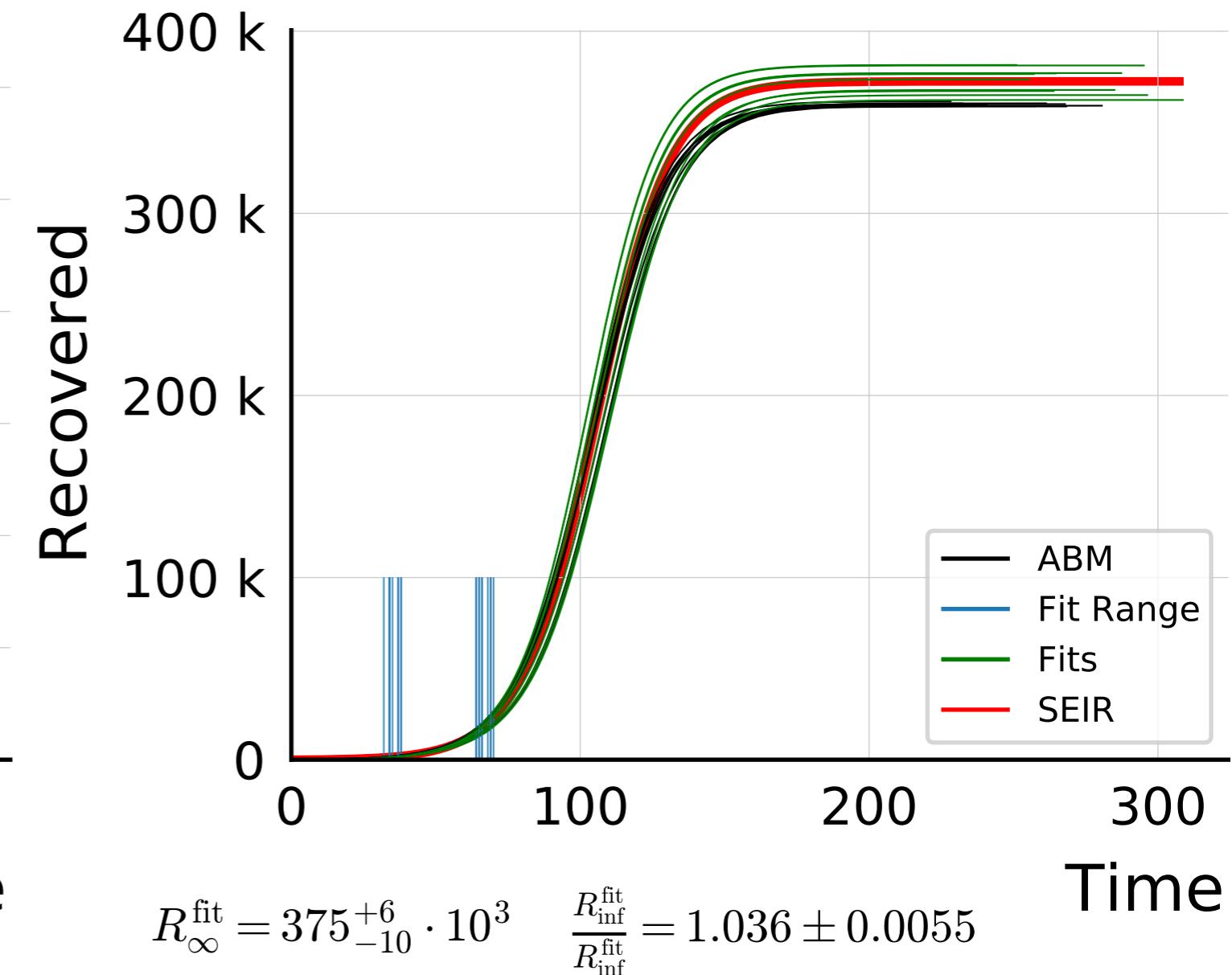
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.99$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

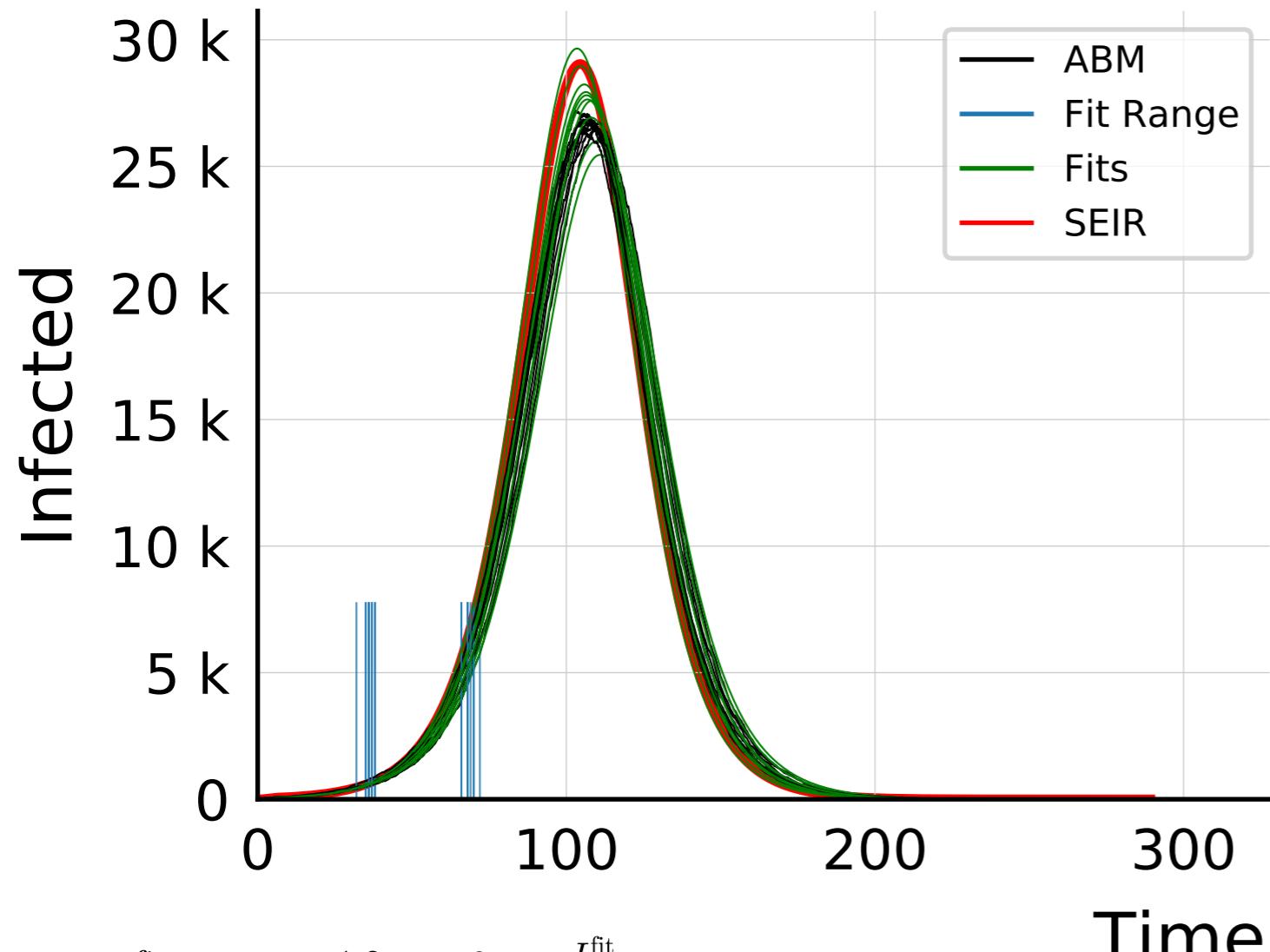


$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.06 \pm 0.016$$

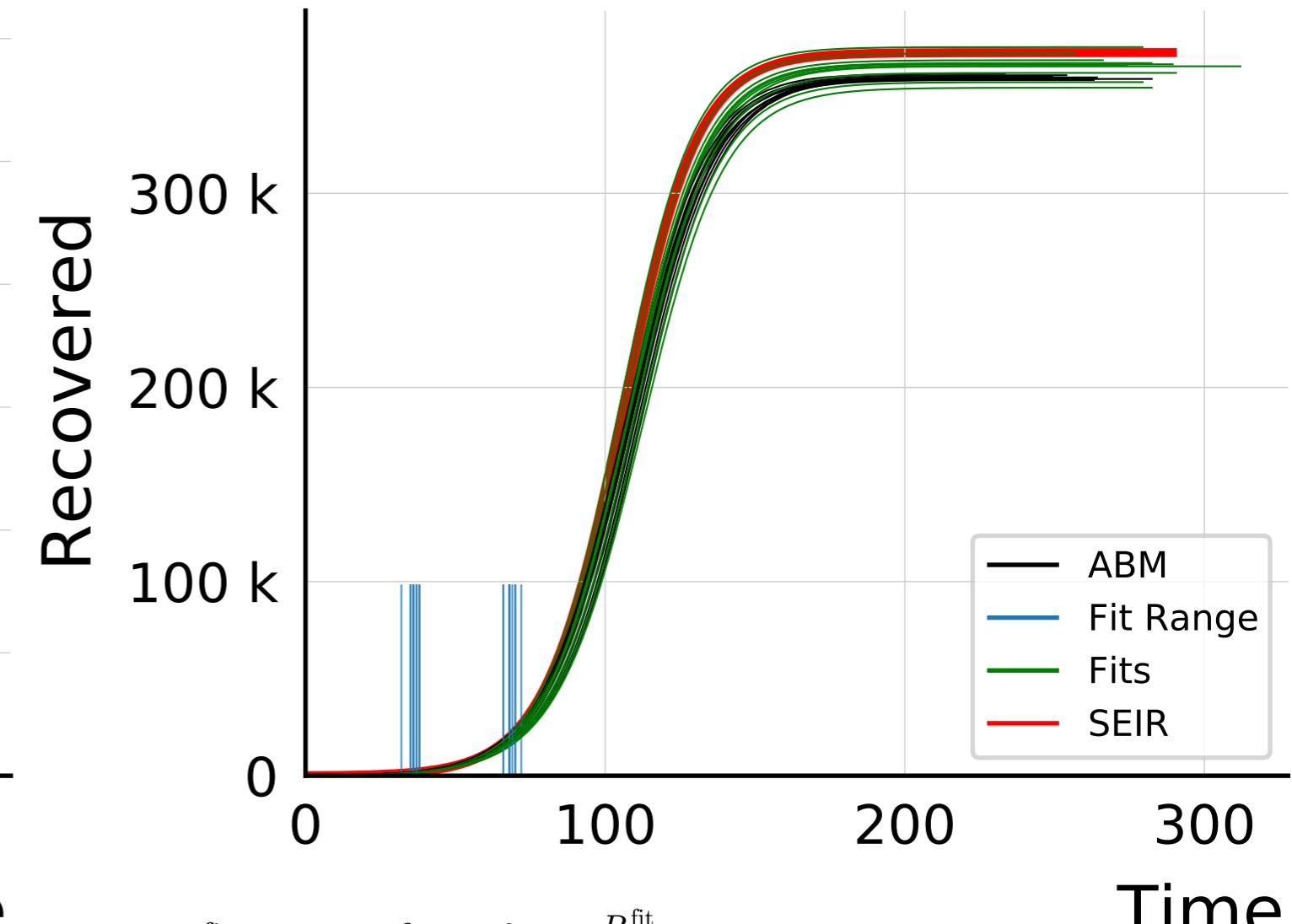


$$\frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}^{\text{ABM}}} = 1.036 \pm 0.0055$$

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

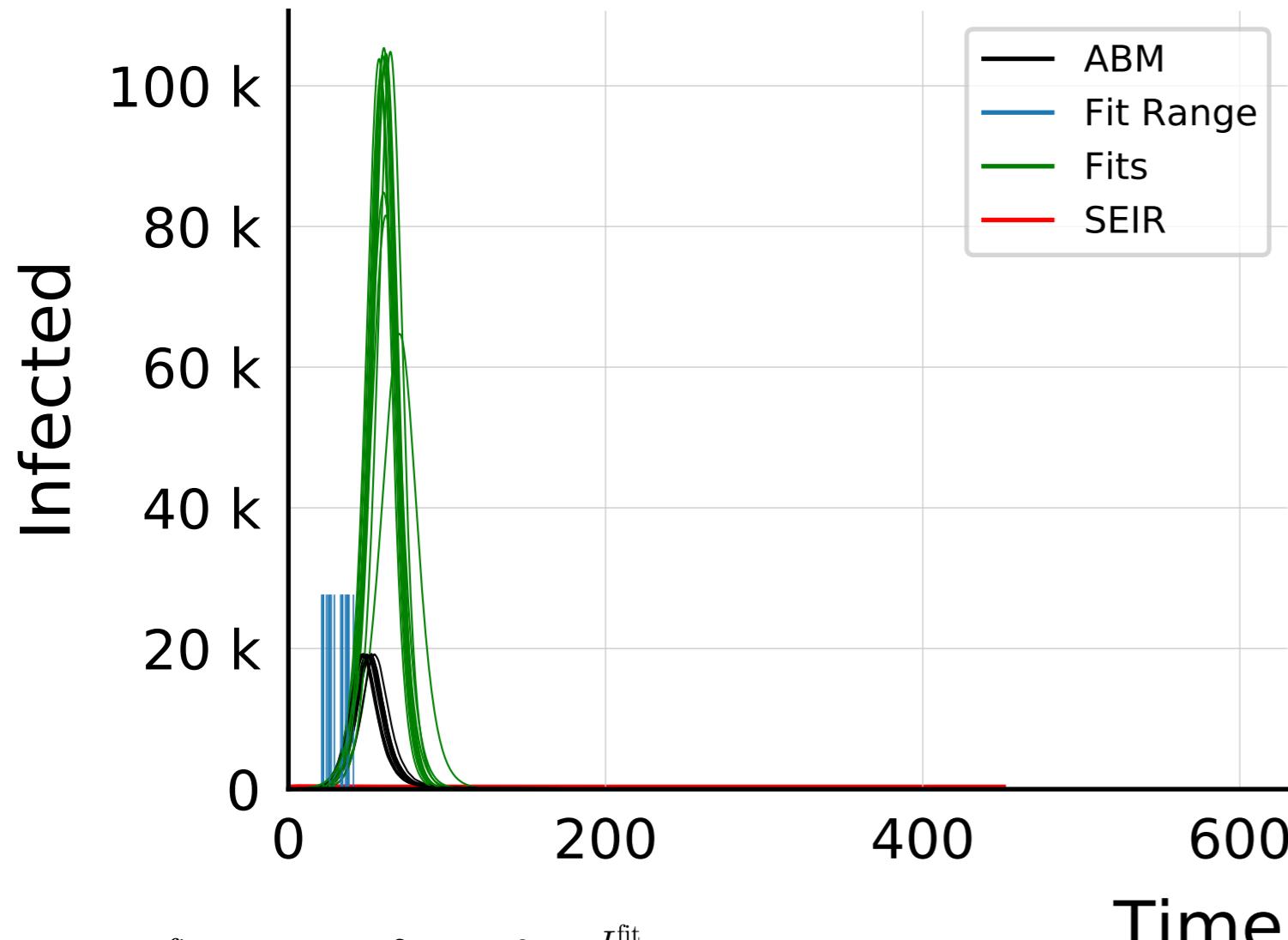


$$I_{\max}^{\text{fit}} = 28_{-1.8}^{+1.2} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.03 \pm 0.014$$

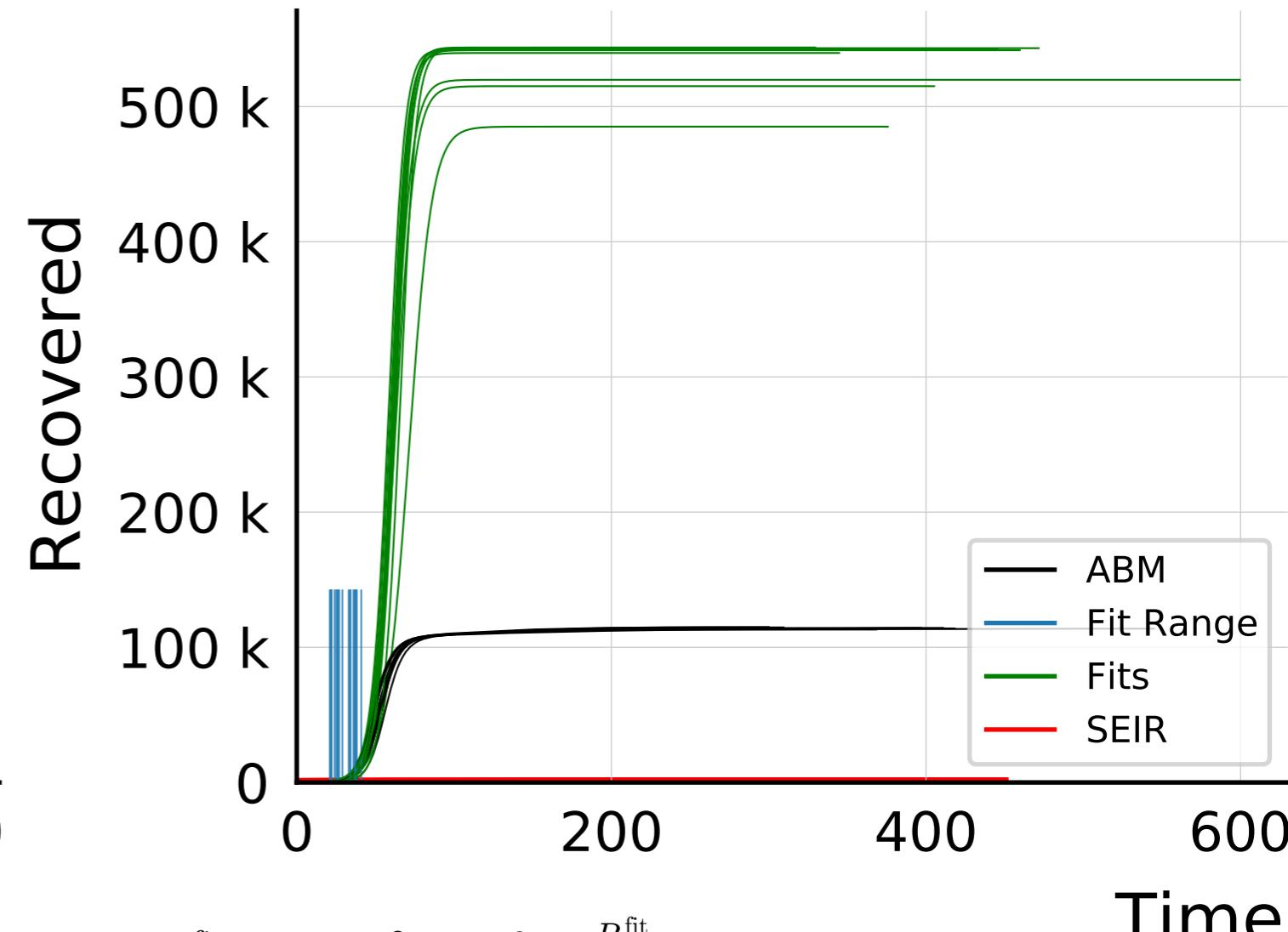


$$R_{\infty}^{\text{fit}} = 366_{-9}^{+6} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 1.016 \pm 0.0048$$

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

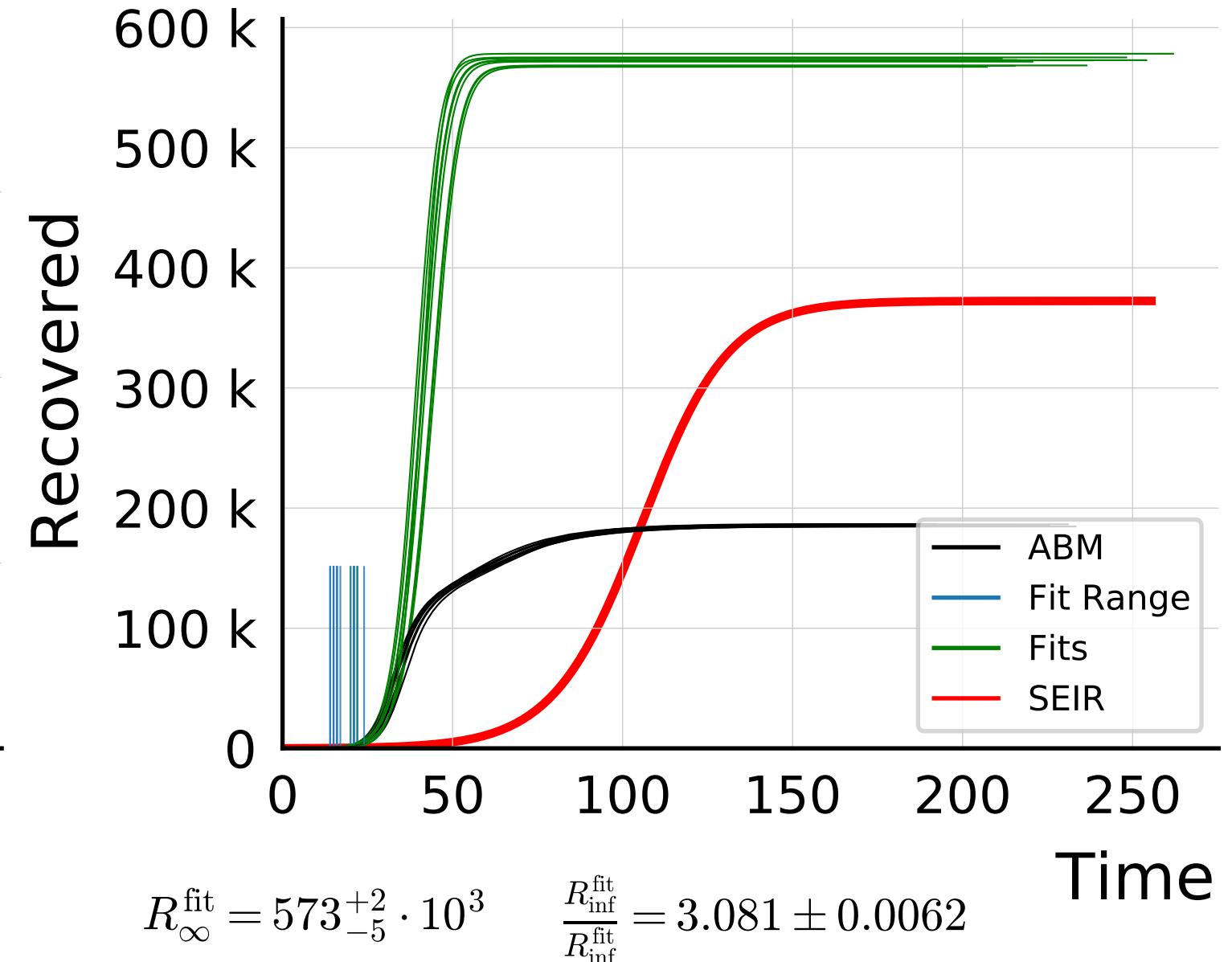
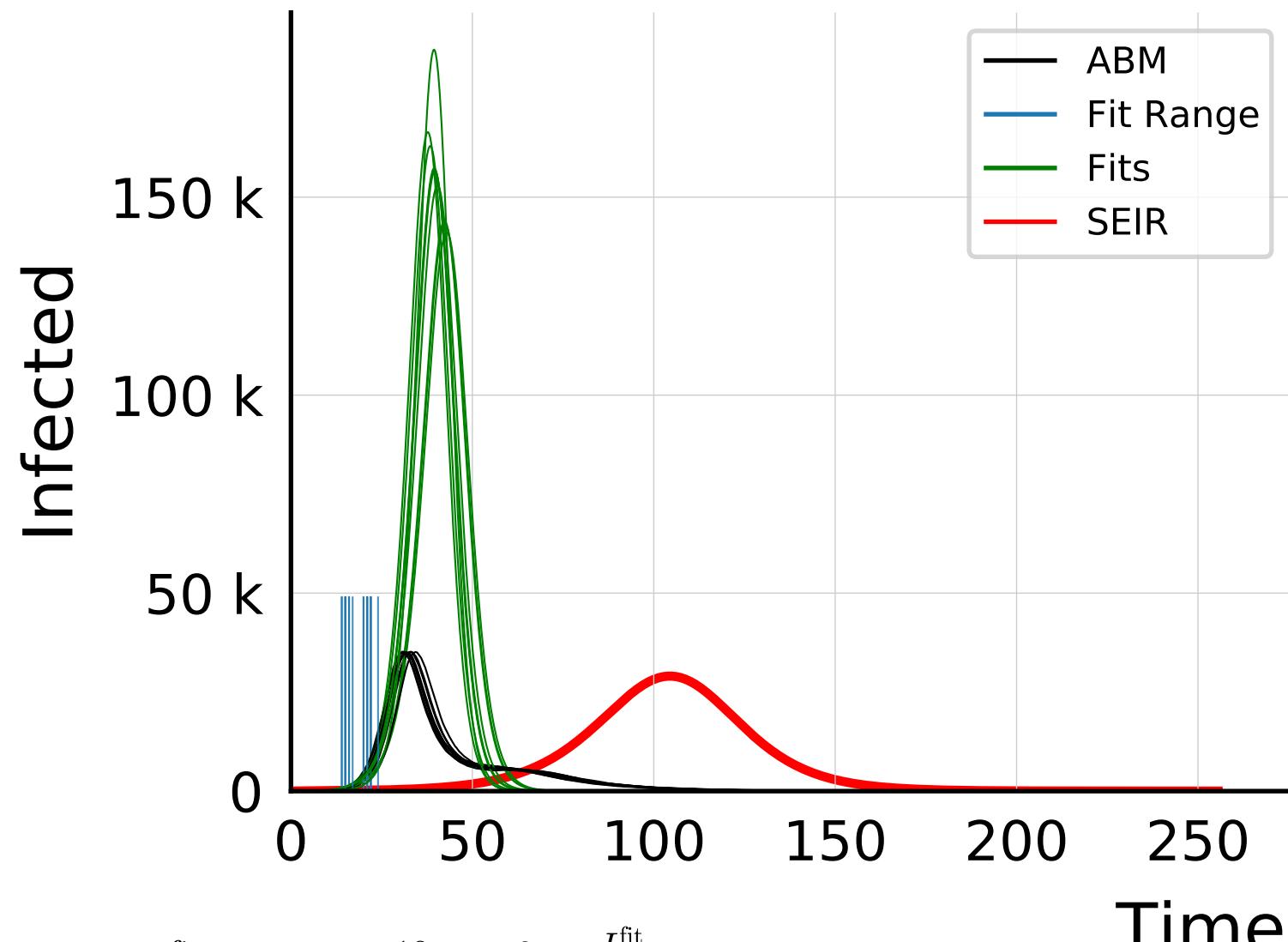


$$I_{\max}^{\text{fit}} = 103^{+2}_{-20} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 5 \pm 0.22$$

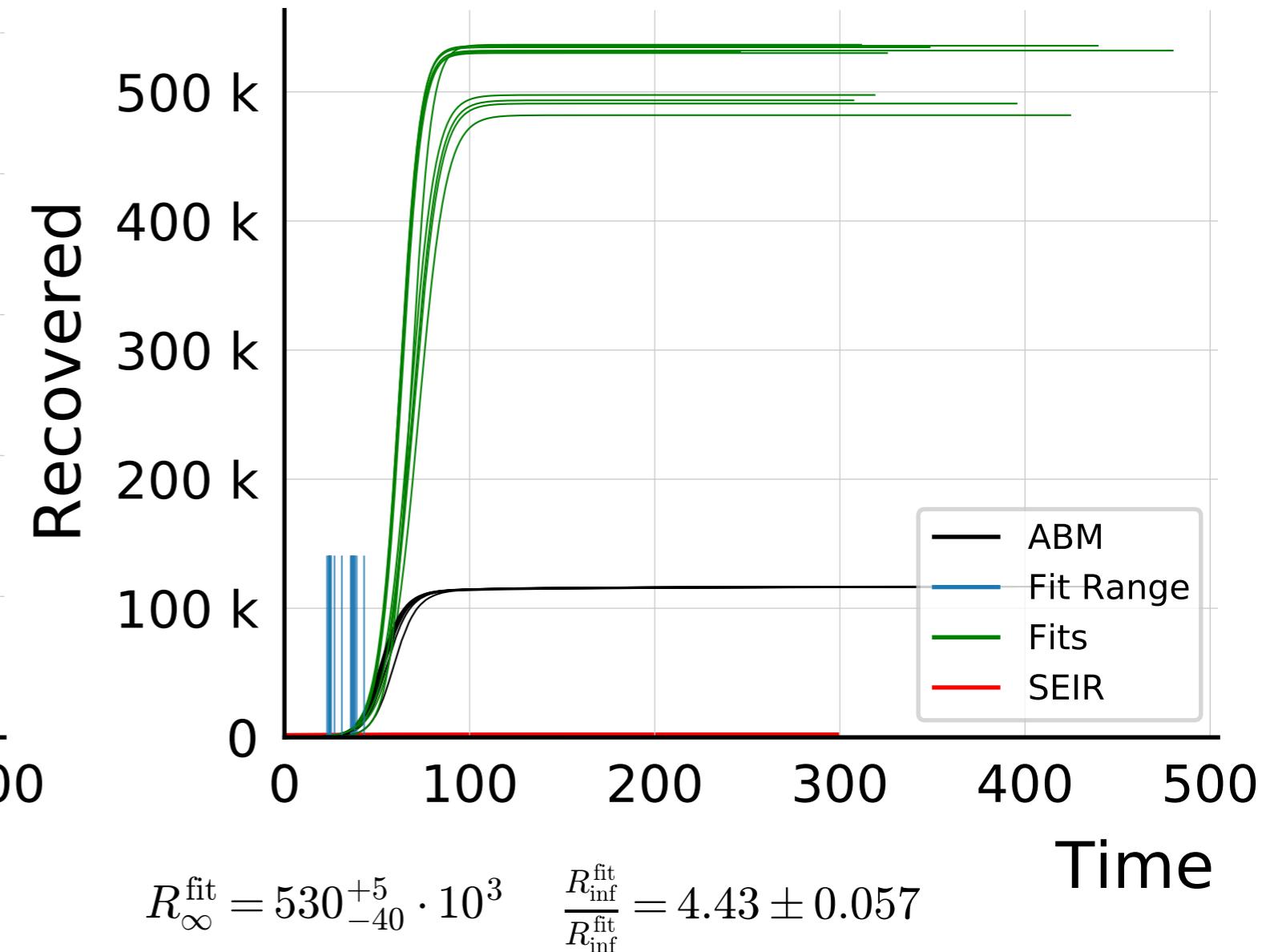
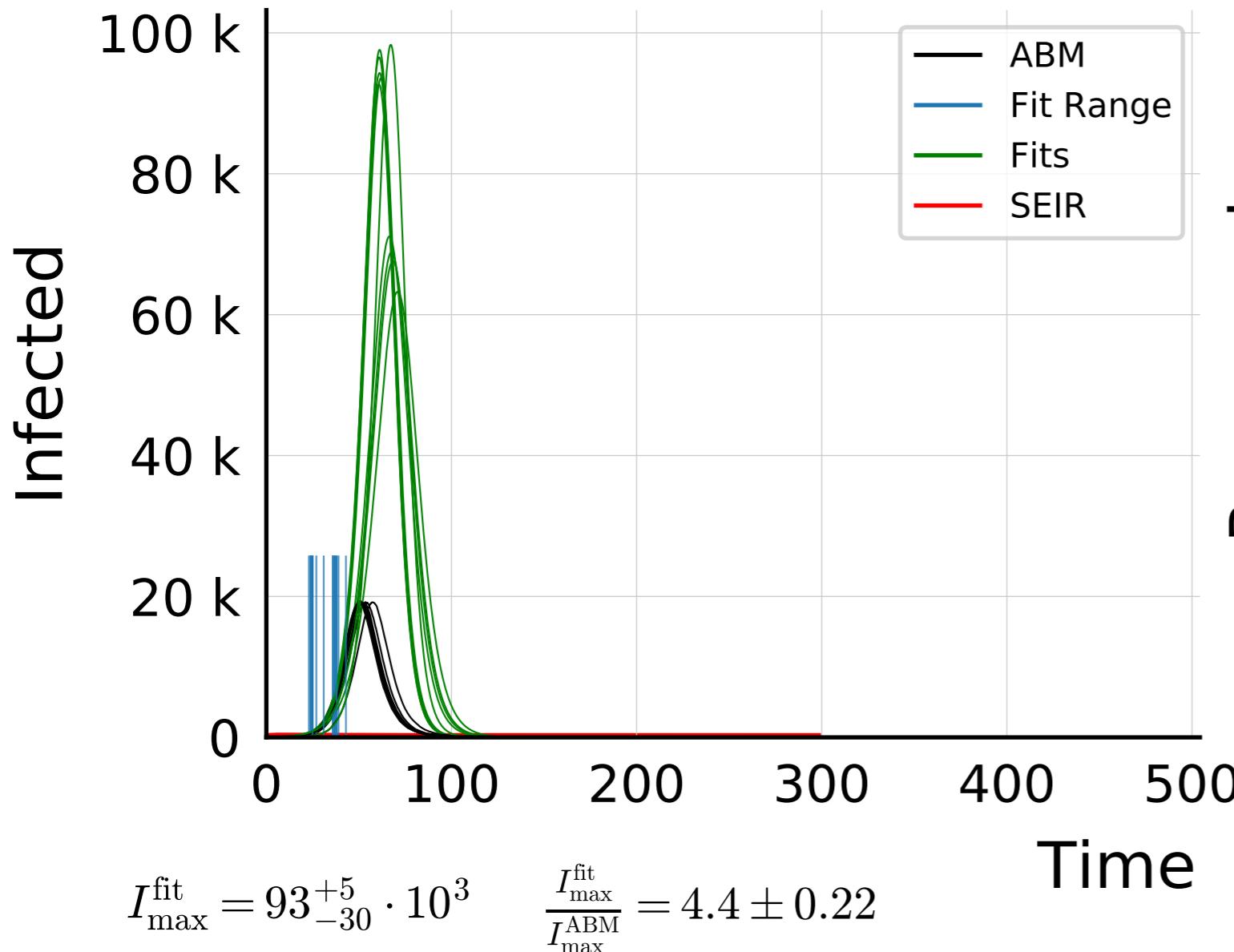


$$R_{\infty}^{\text{fit}} = 541^{+2}_{-30} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 4.66 \pm 0.048$$

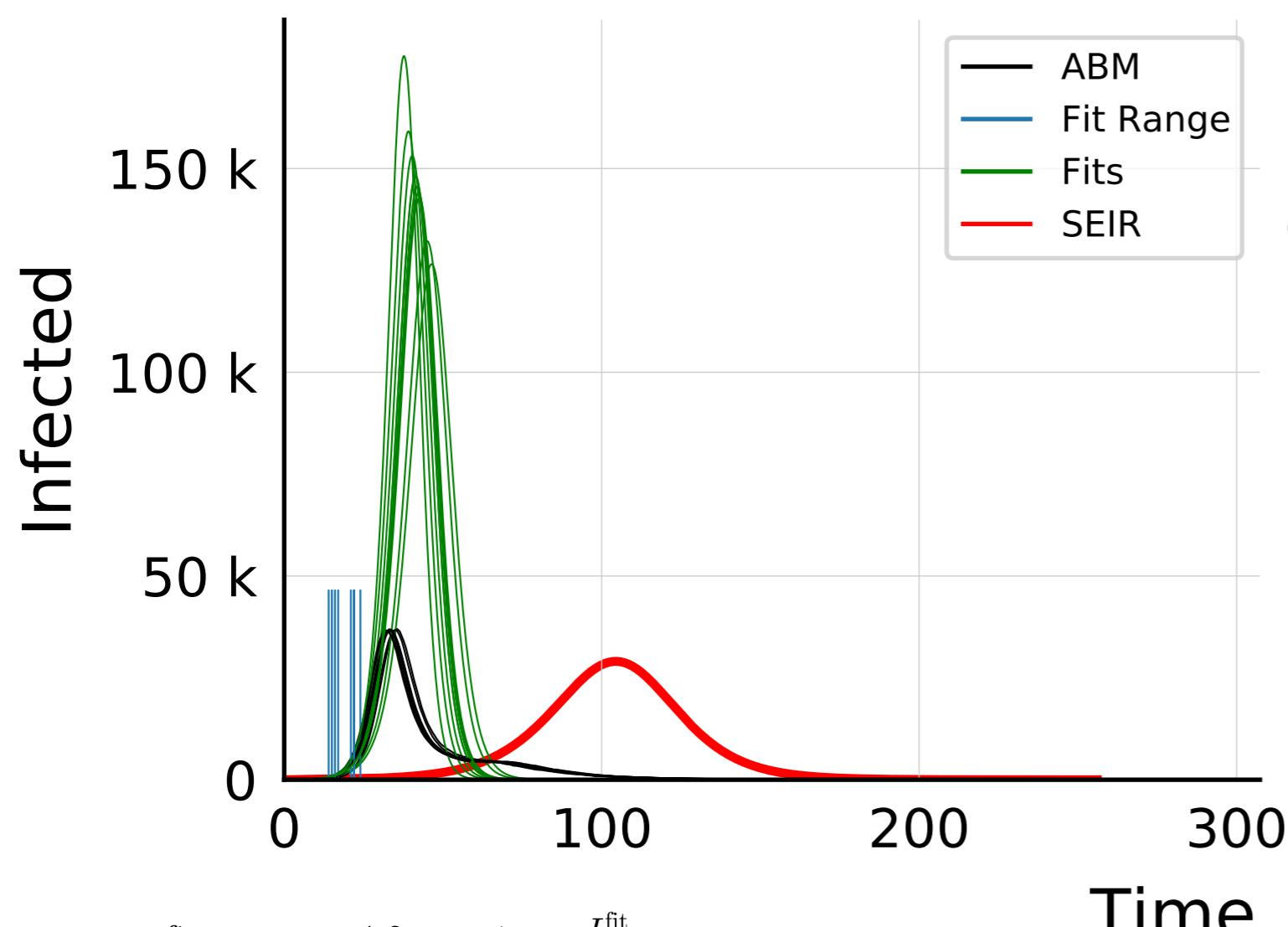
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



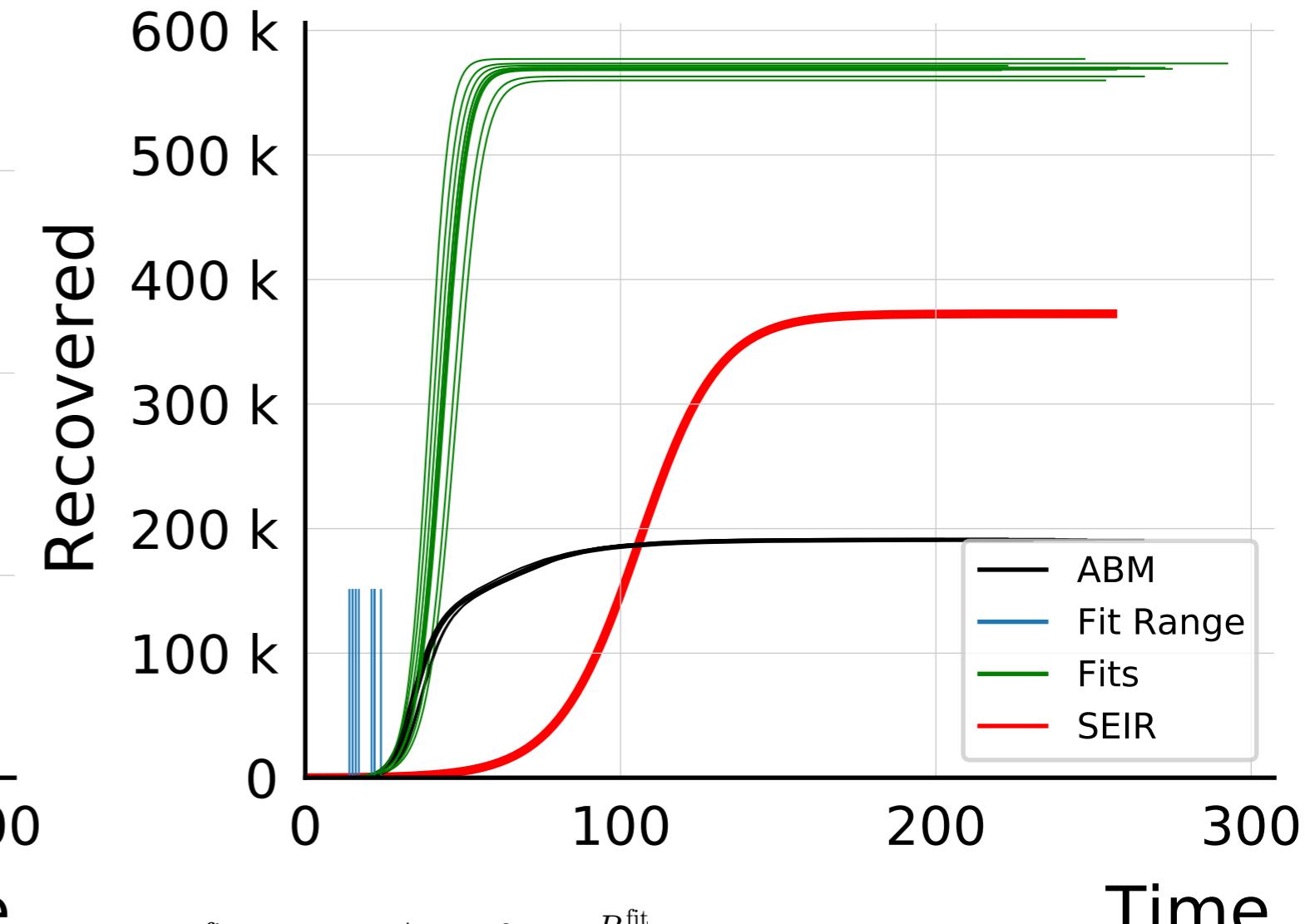
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

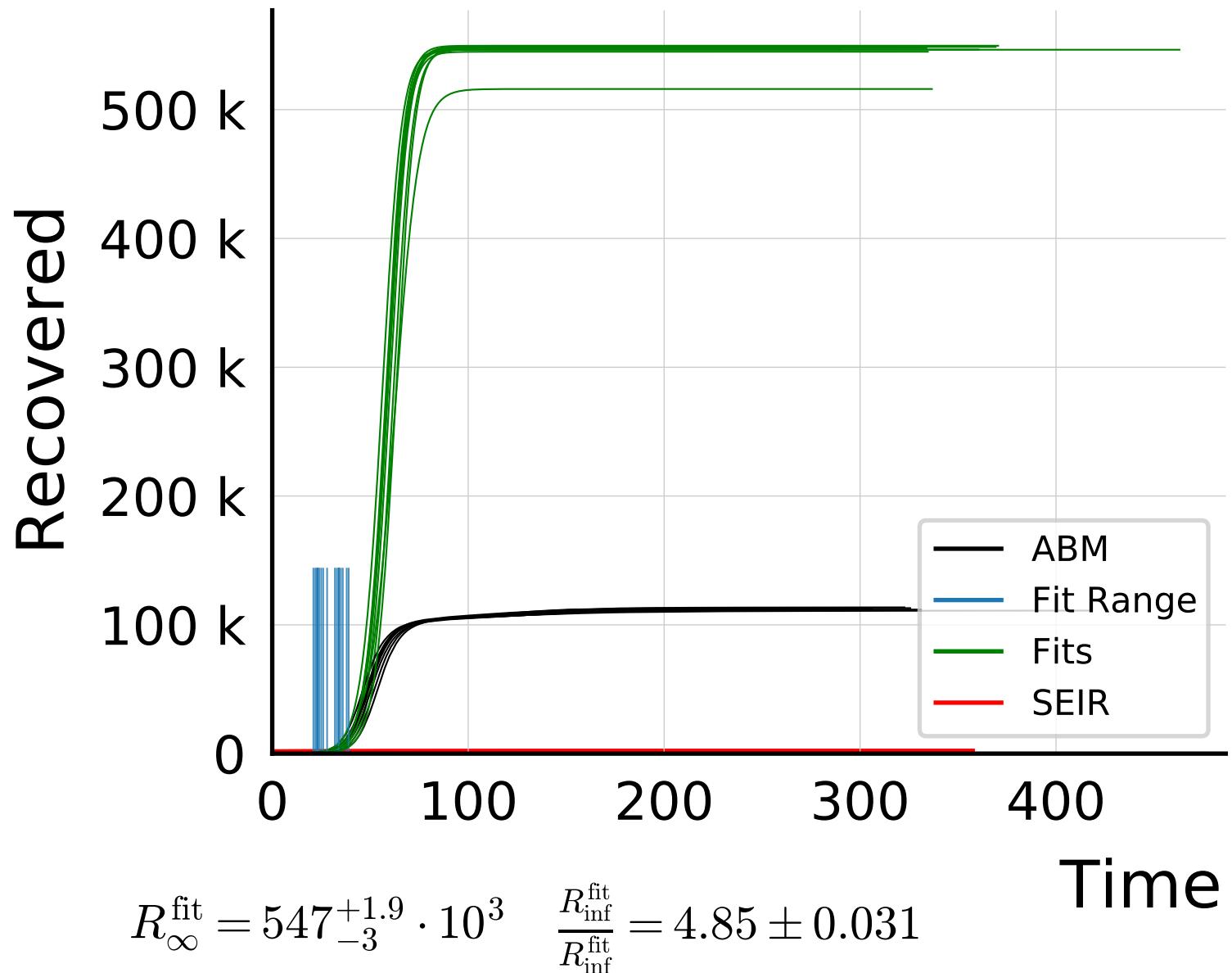
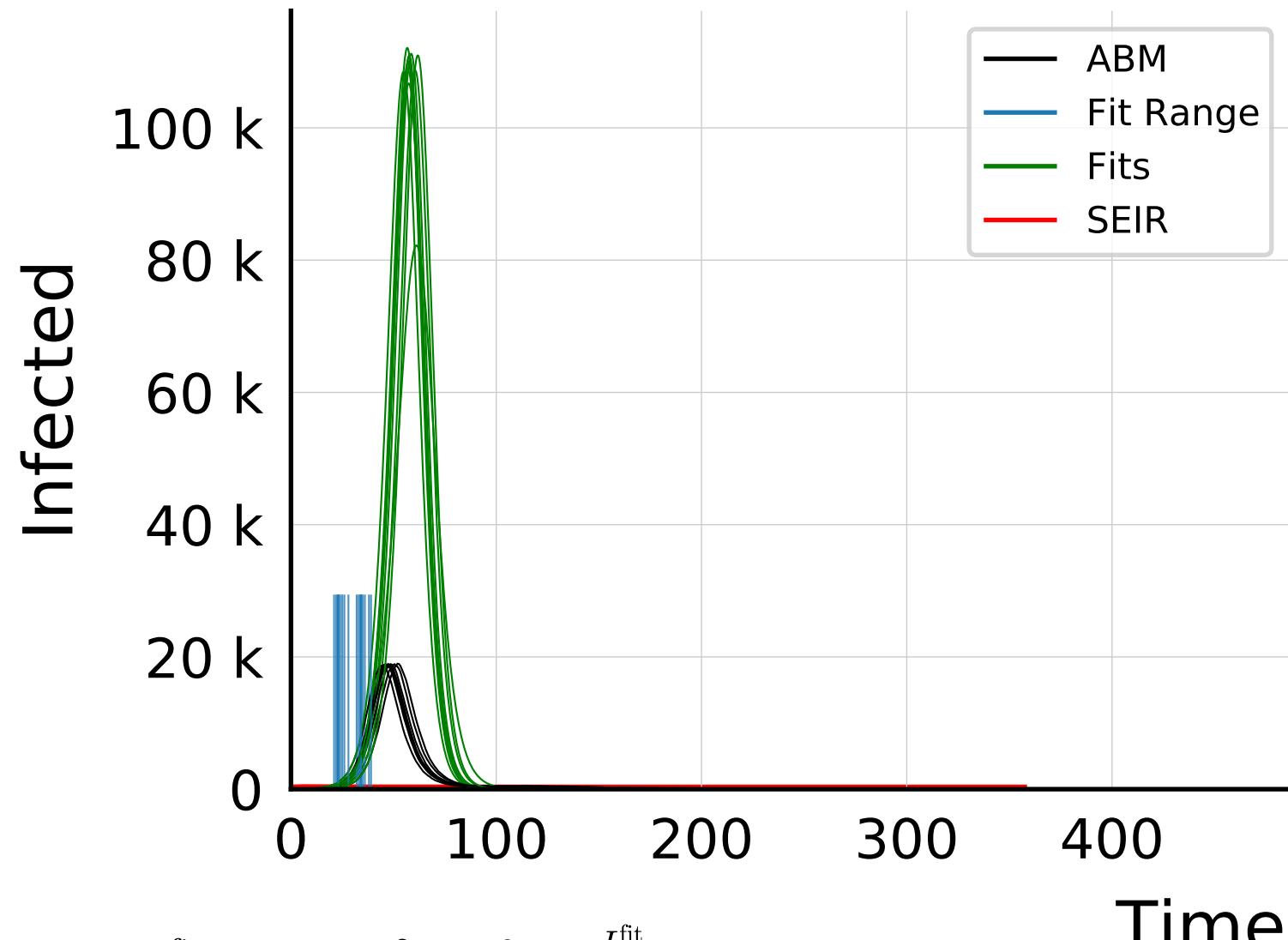


$$I_{\max}^{\text{fit}} = 15^{+1.2}_{-1.5} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4 \pm 0.12$$

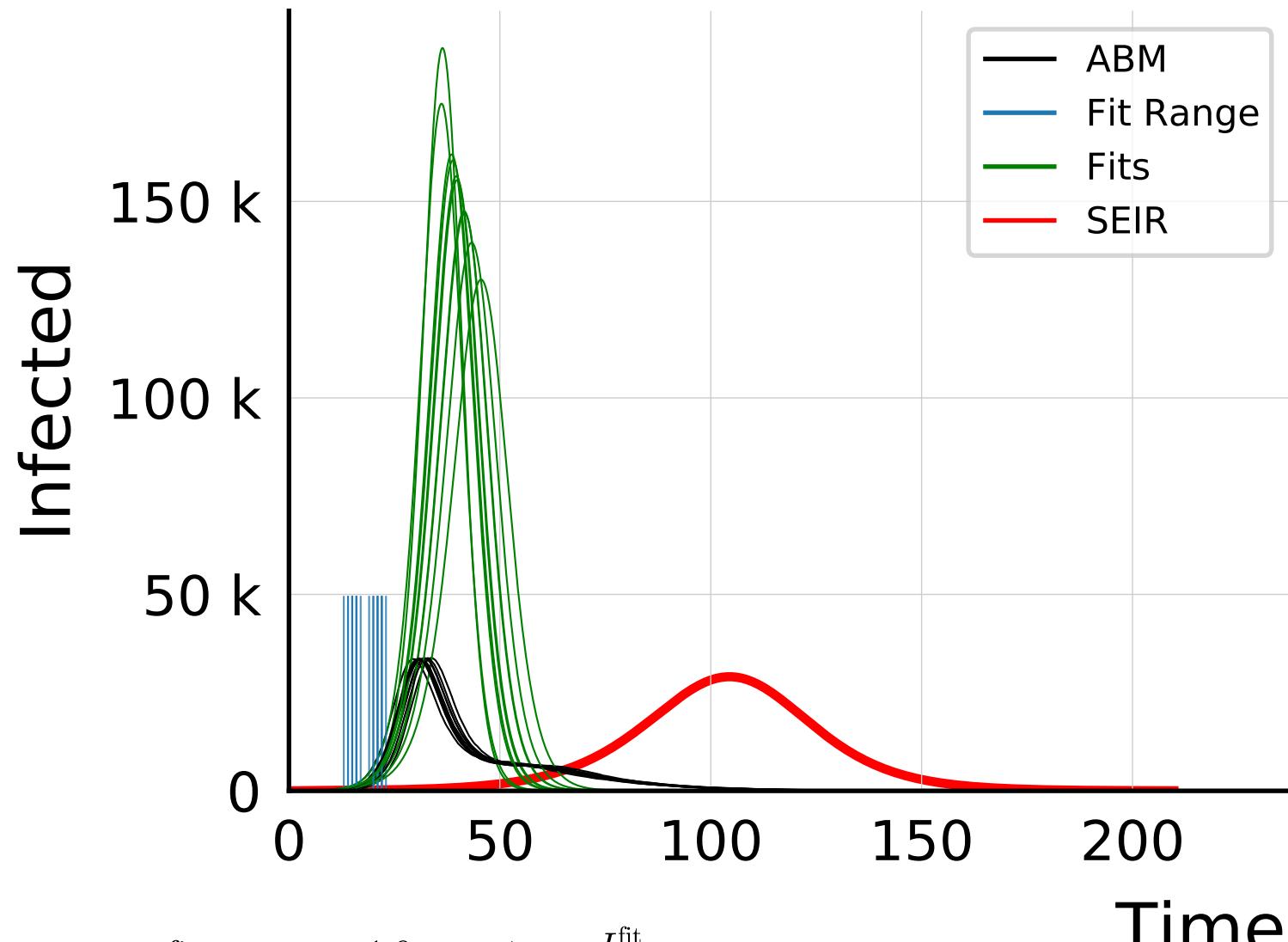


$$R_{\infty}^{\text{fit}} = 570^{+4}_{-7} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{inf}}} = 2.976 \pm 0.0061$$

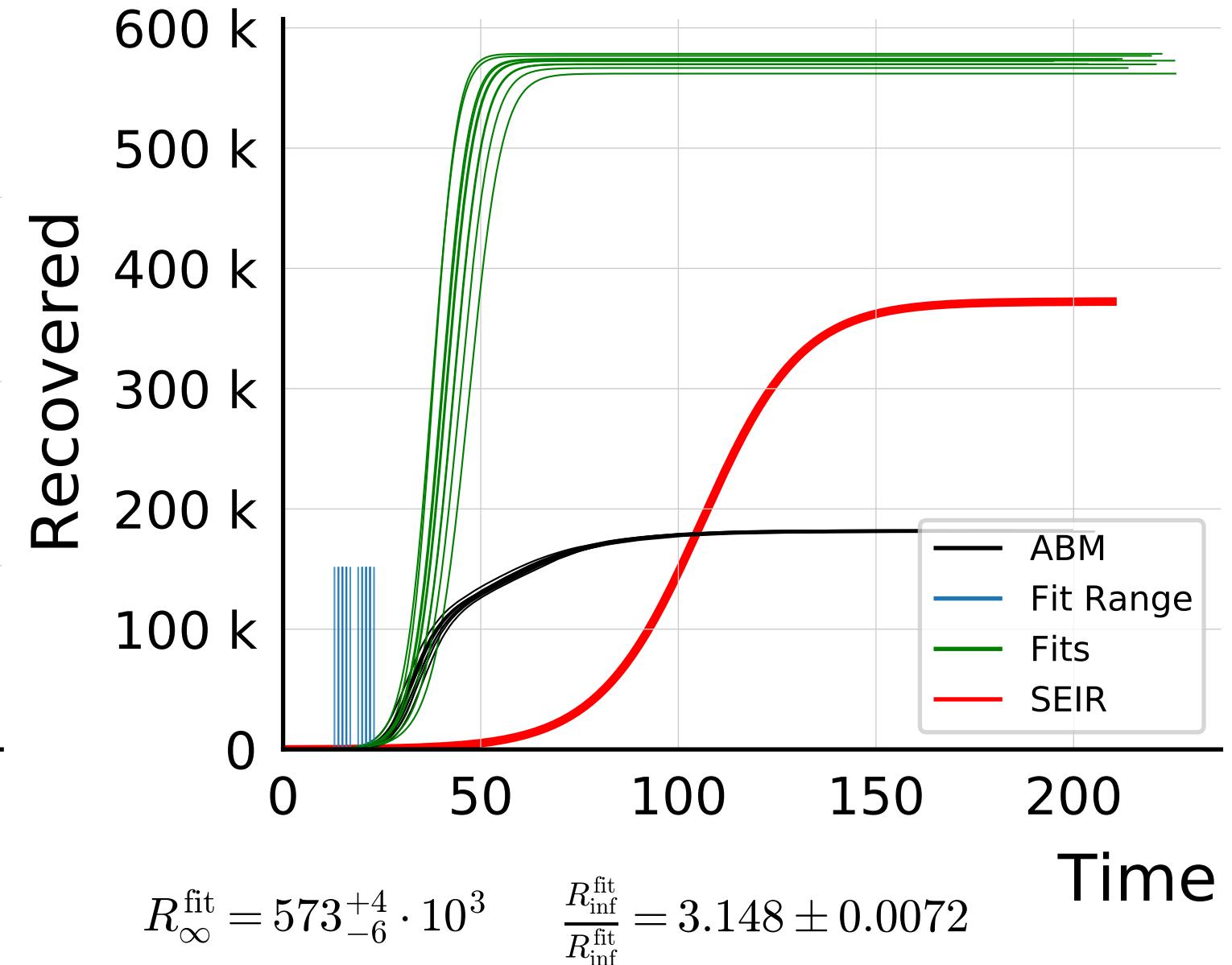
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

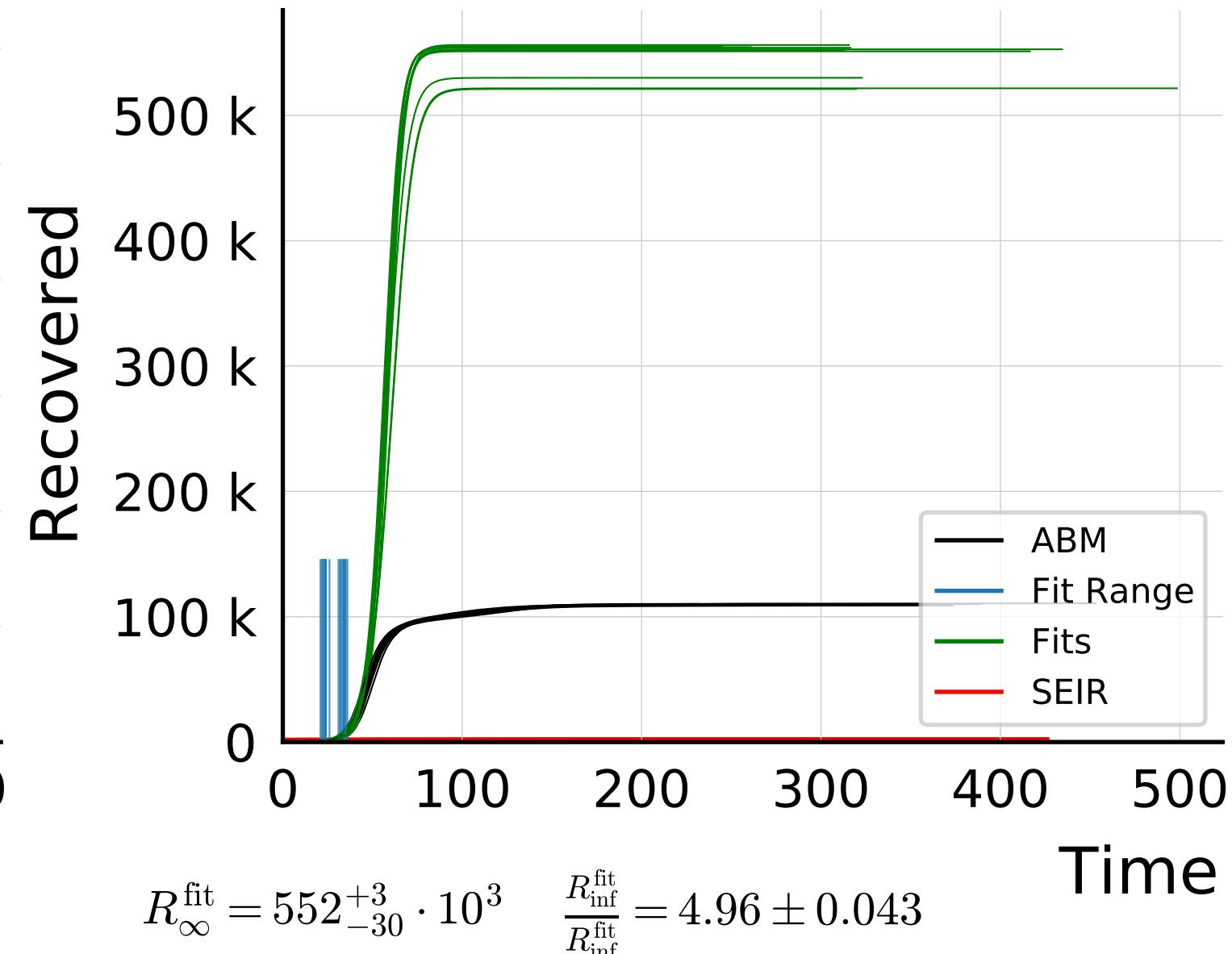
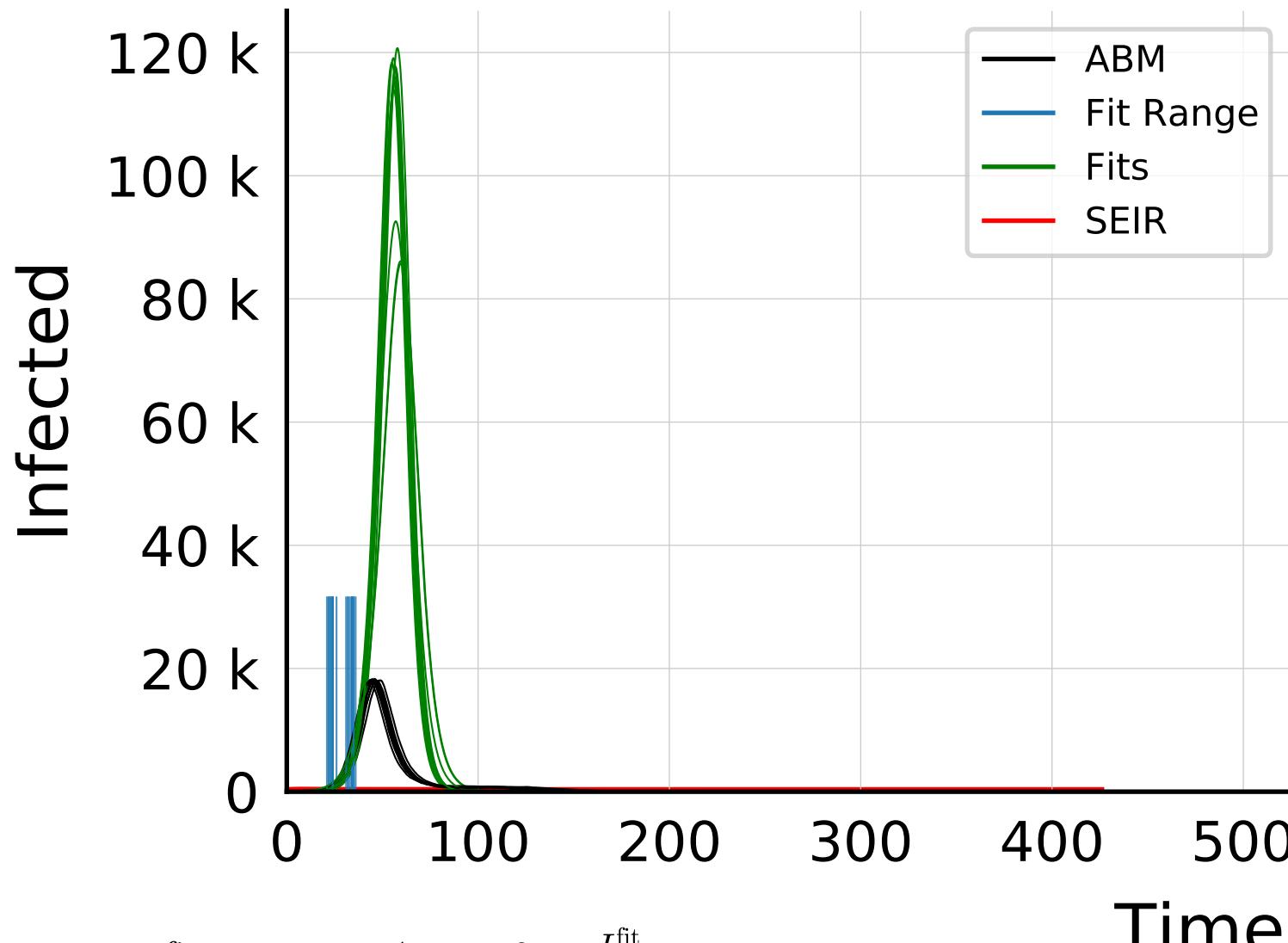


$$I_{\max}^{\text{fit}} = 16_{-1.7}^{+1.9} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.6 \pm 0.16$$

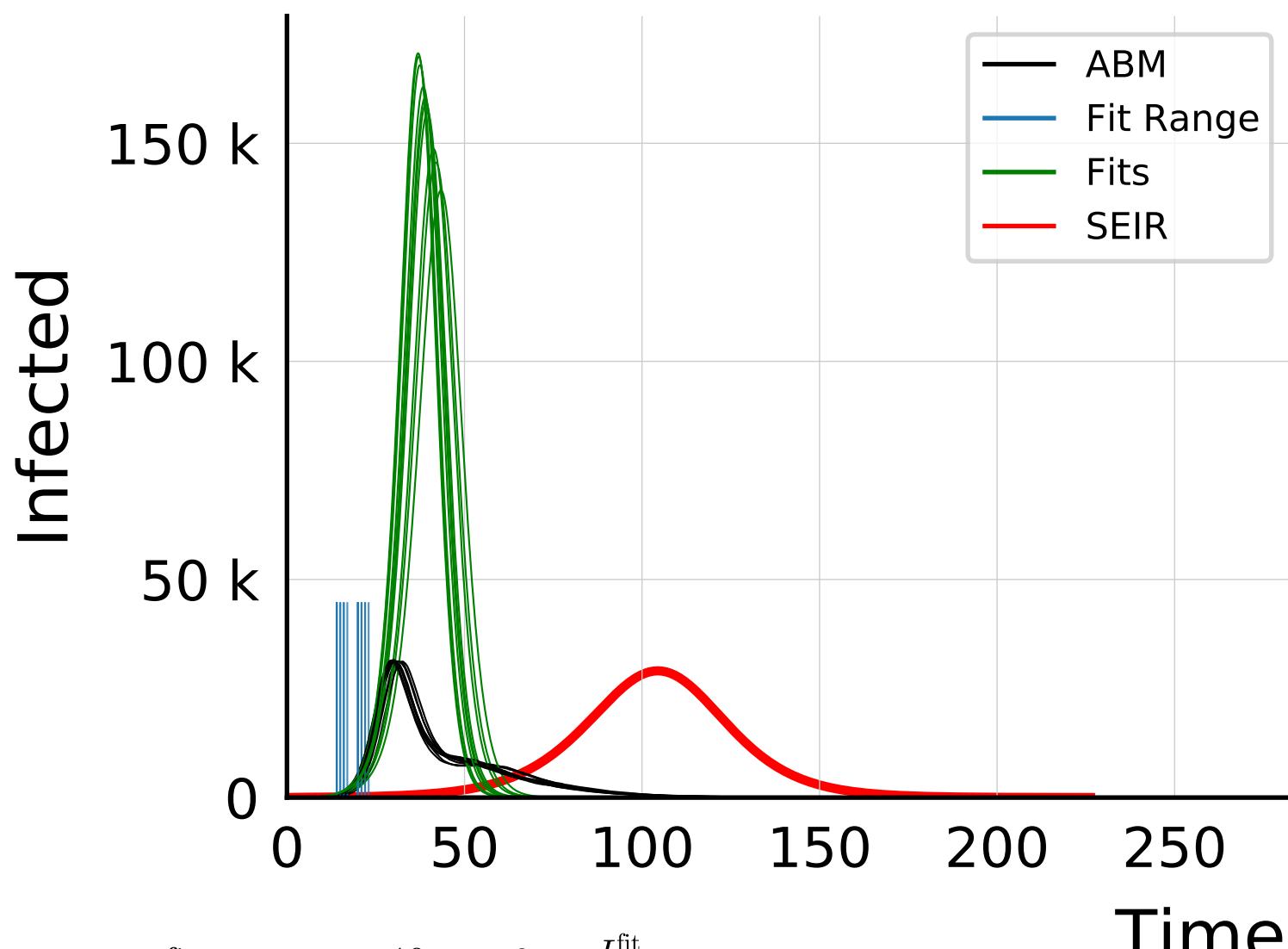


$$R_{\infty}^{\text{fit}} = 573_{-6}^{+4} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 3.148 \pm 0.0072$$

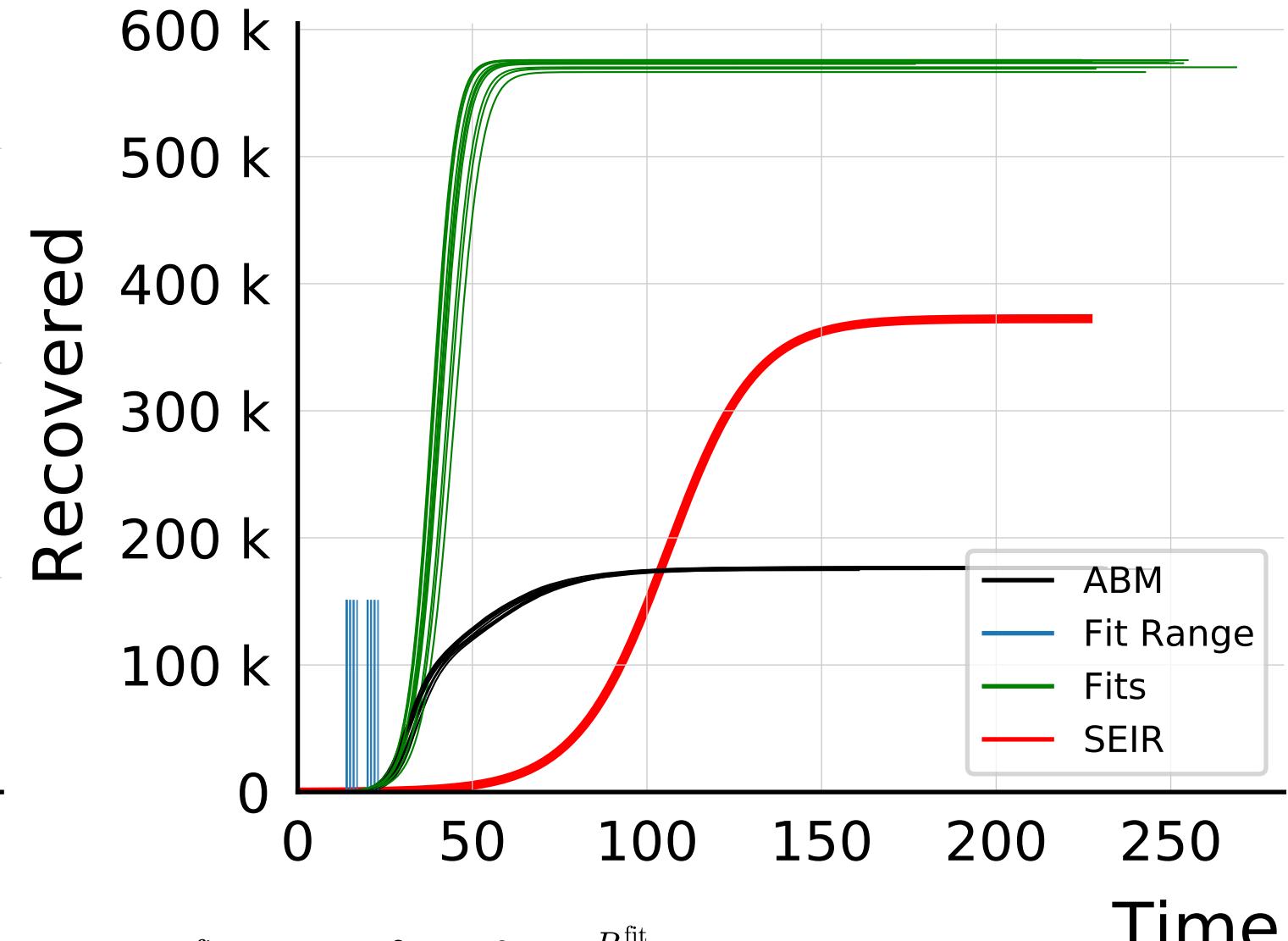
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

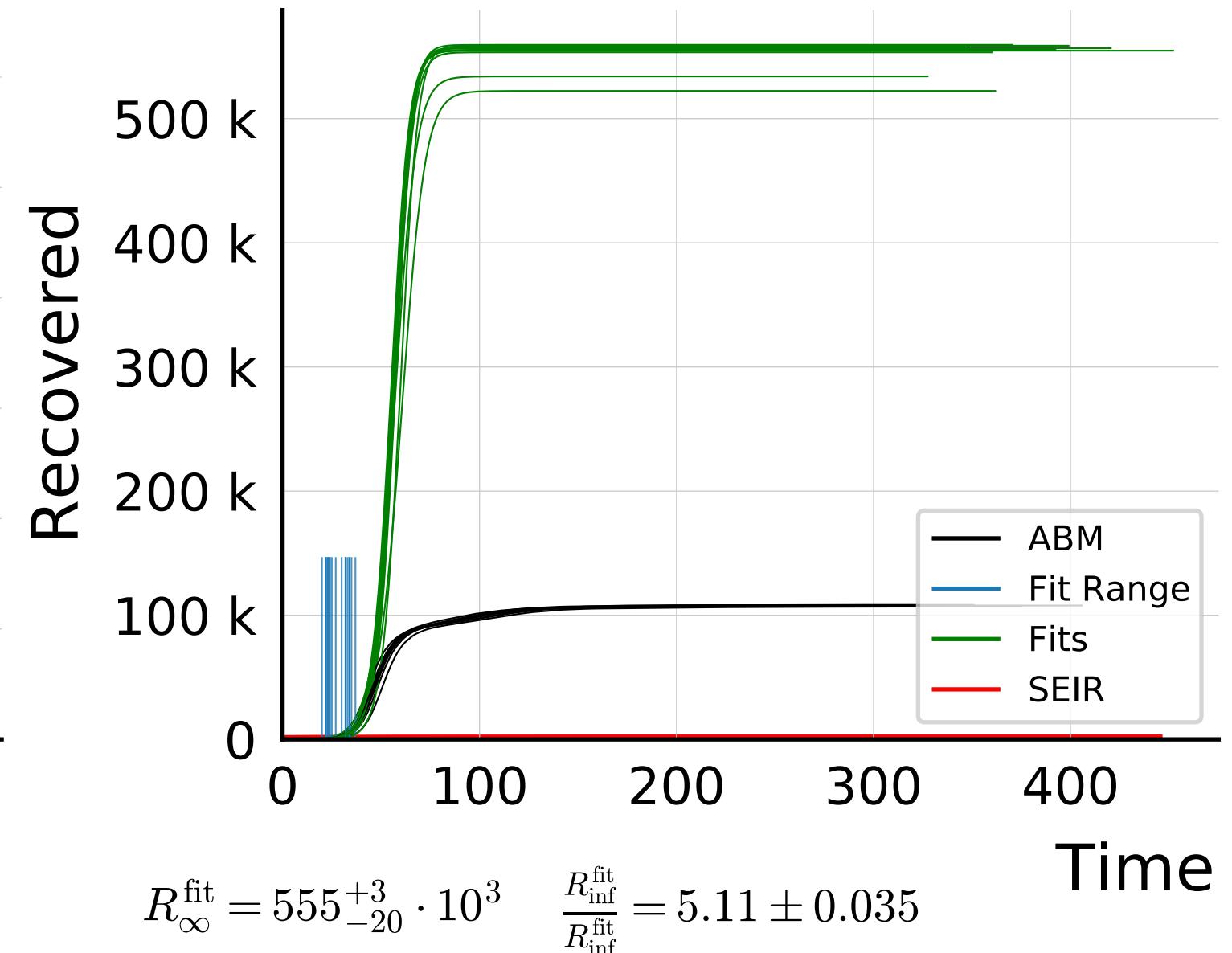
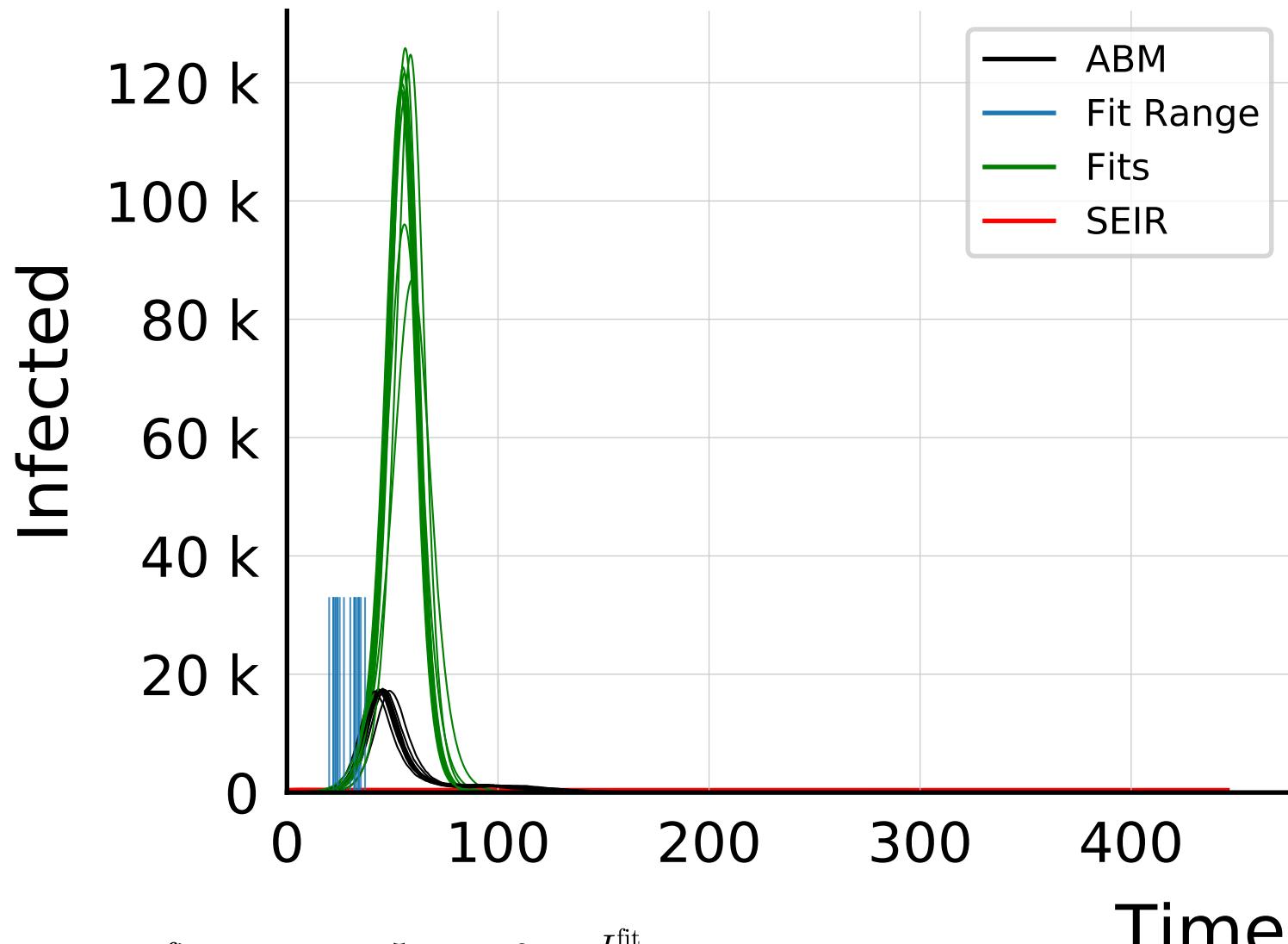


$$I_{\max}^{\text{fit}} = 160_{-14}^{+10} \cdot 10^3 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 5.1 \pm 0.10$$

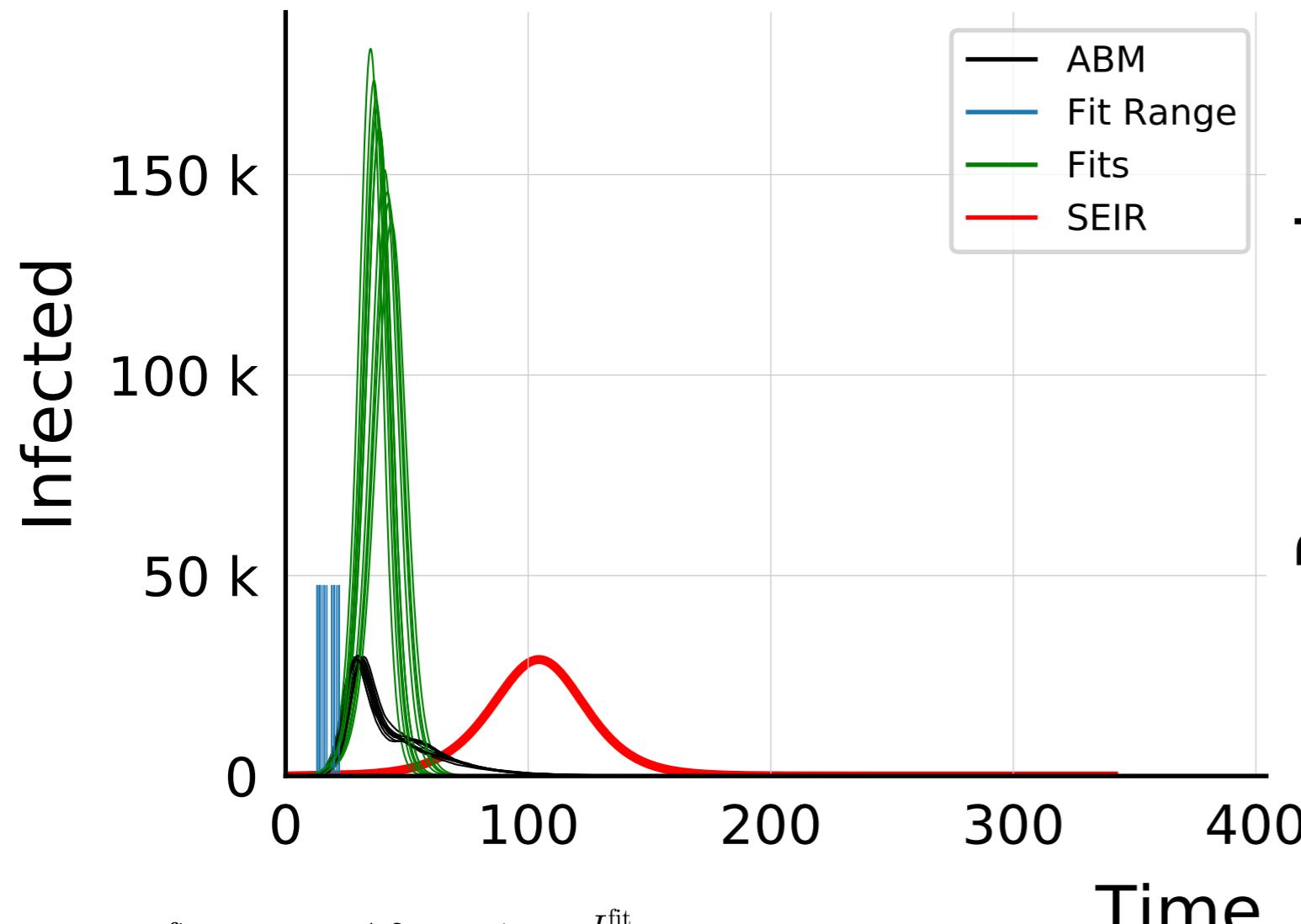


$$R_{\infty}^{\text{fit}} = 574_{-4}^{+2} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\text{inf}}^{\text{fit}}} = 3.246 \pm 0.0070$$

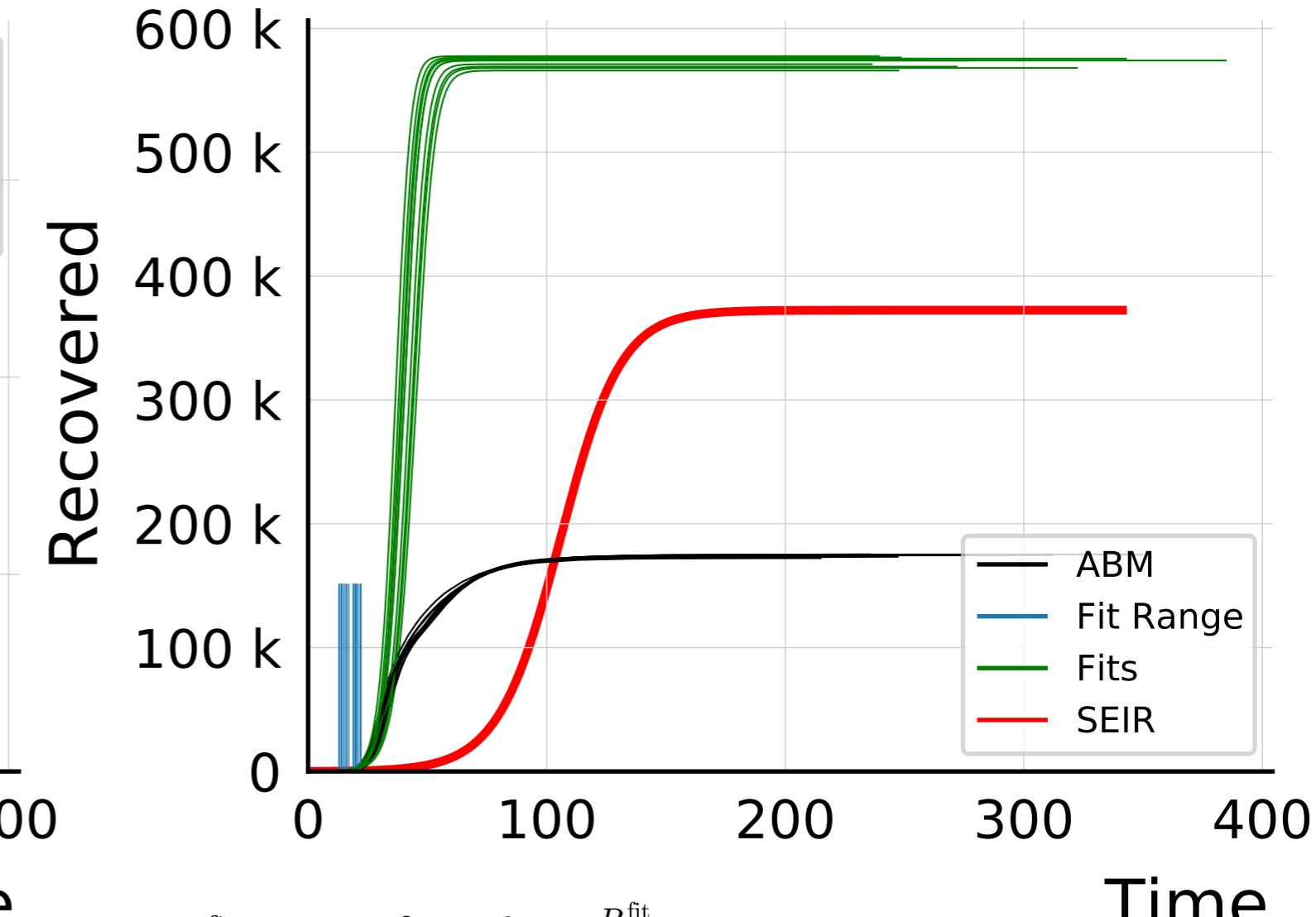
$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 100$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #10



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

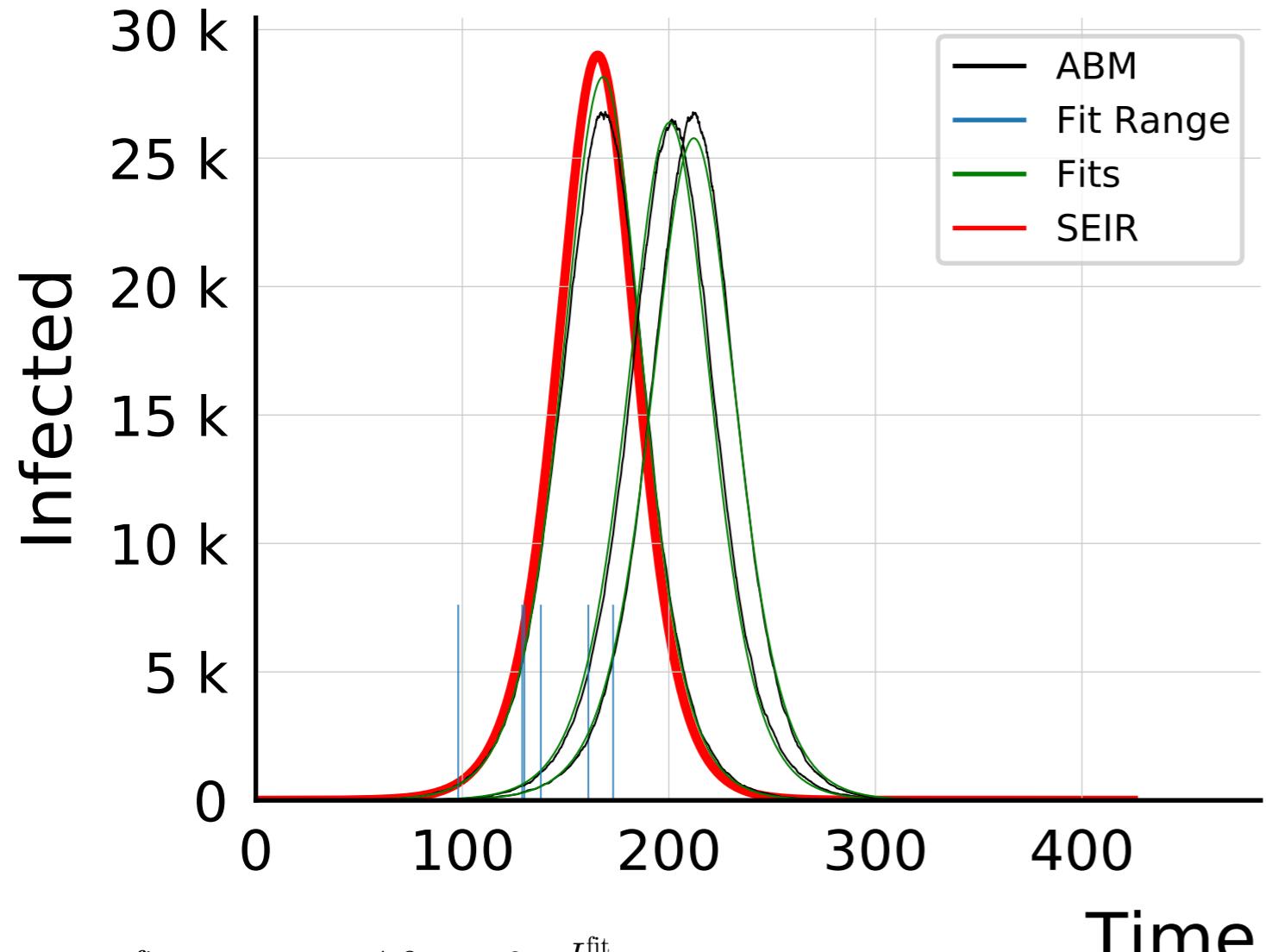


$$I_{\max}^{\text{fit}} = 16_{-1.9}^{+1.2} \cdot 10^4 \quad \frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 5.4 \pm 0.15$$

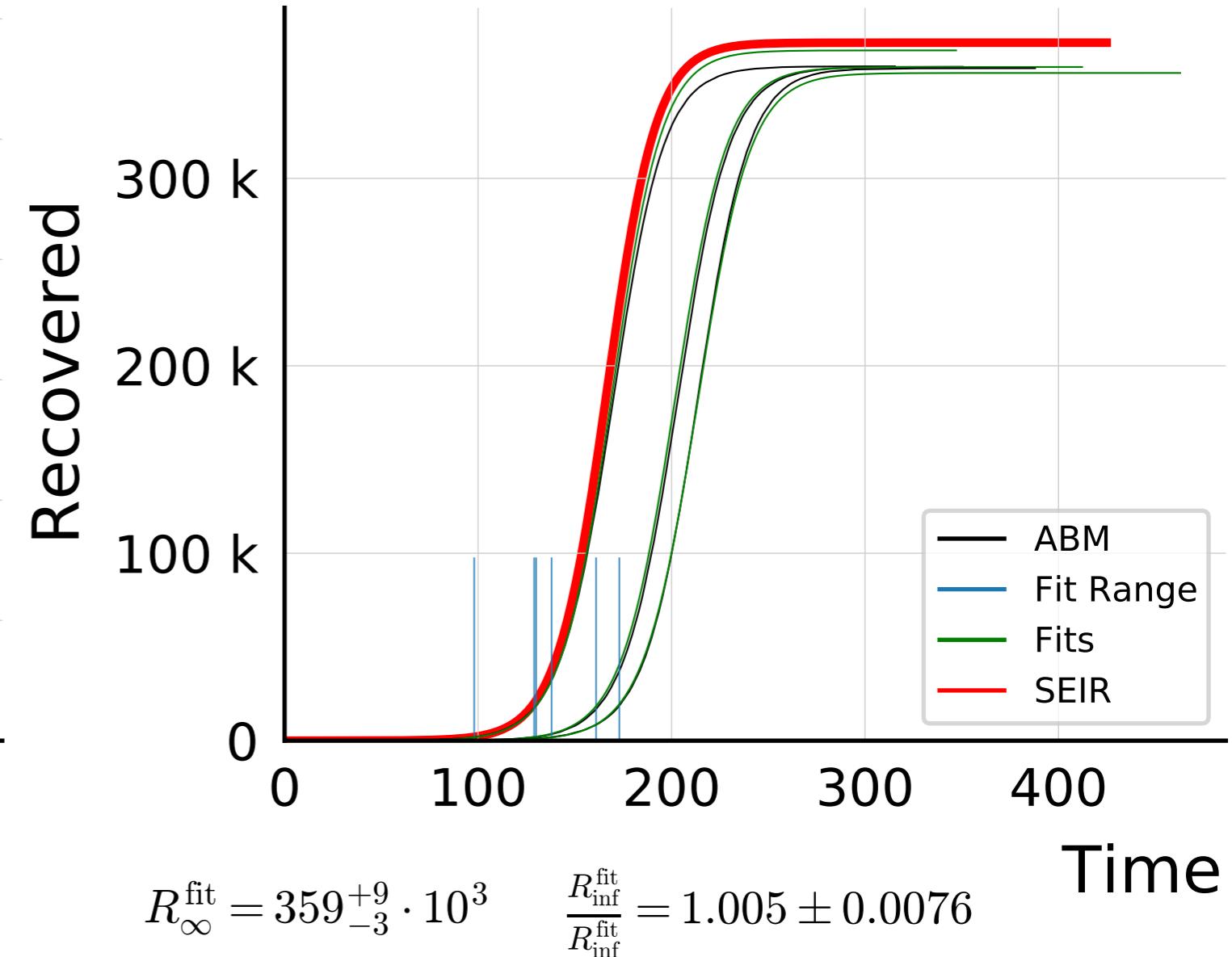


$$R_{\infty}^{\text{fit}} = 574_{-6}^{+2} \cdot 10^3 \quad \frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.286 \pm 0.0073$$

$N_{\text{tot}} = 580K$ ,  $N_{\text{init}} = 1$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , algo = 2, #3

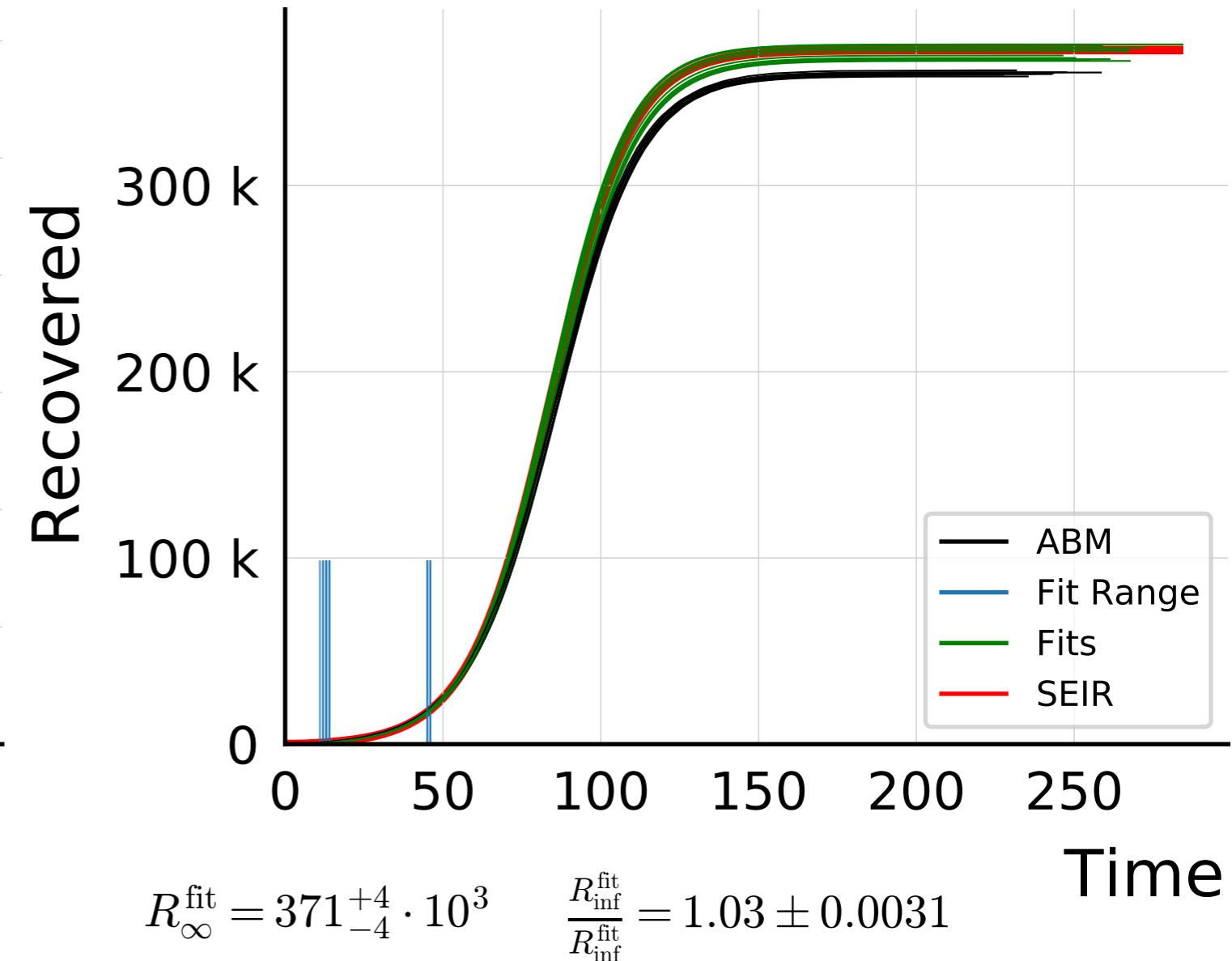
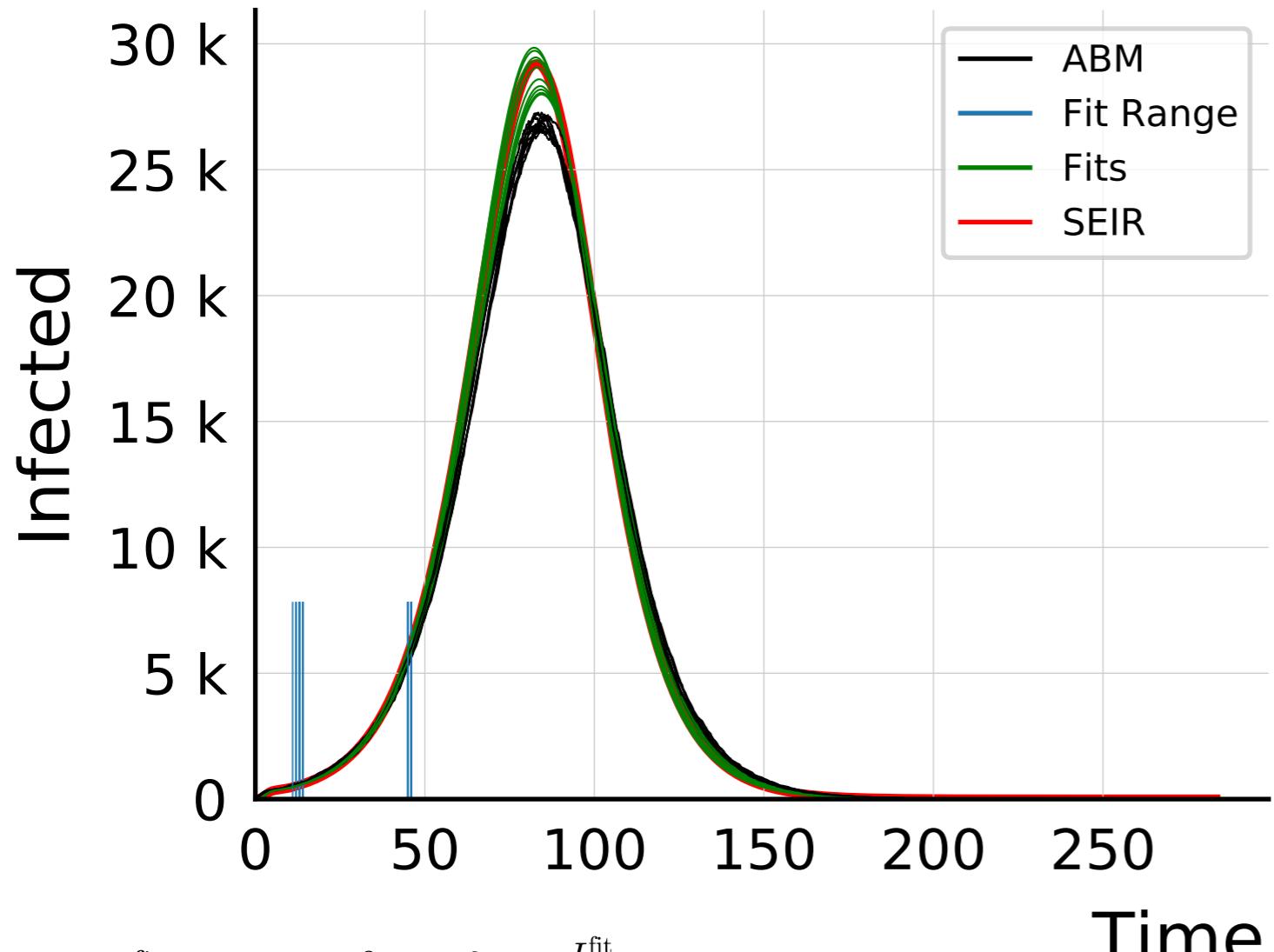


$$I_{\text{max}}^{\text{fit}} = 26.4_{-0.6}^{+1.8} \cdot 10^3 \quad \frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1 \pm 0.021$$

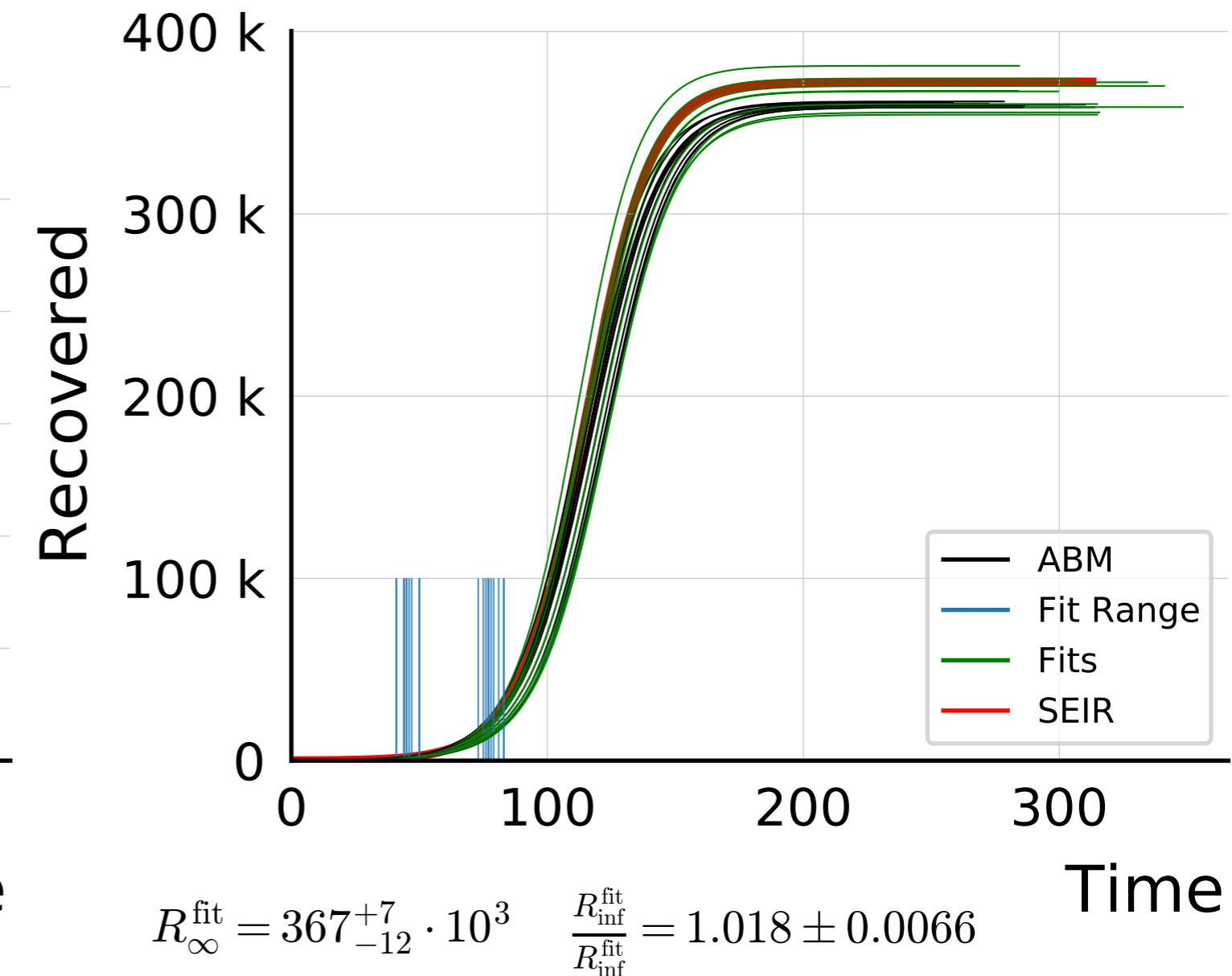
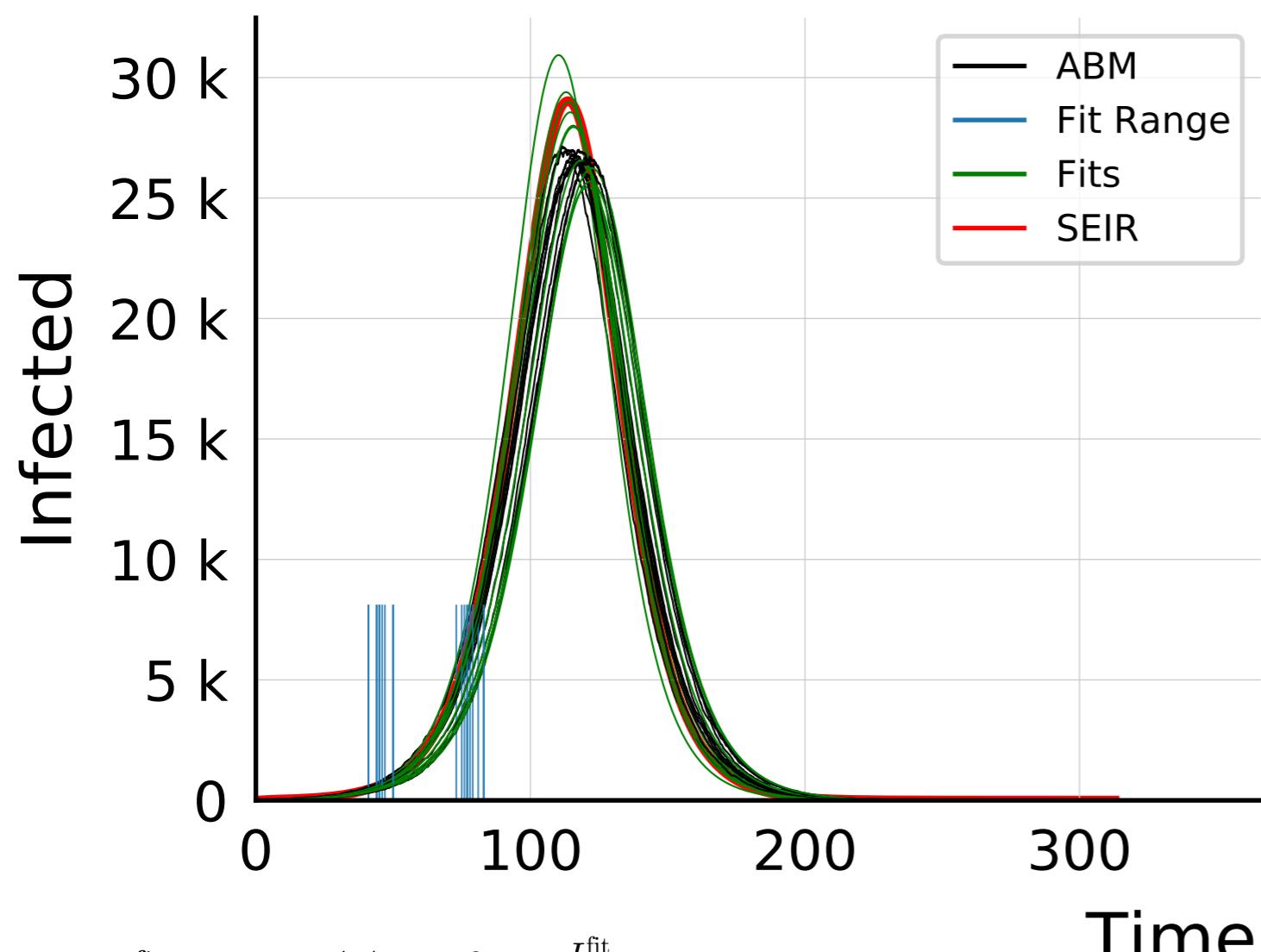


$$R_{\infty}^{\text{fit}} = 359_{-3}^{+9} \cdot 10^3 \quad \frac{R_{\text{inf}}^{\text{fit}}}{R_{\text{inf}}} = 1.005 \pm 0.0076$$

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



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



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

