

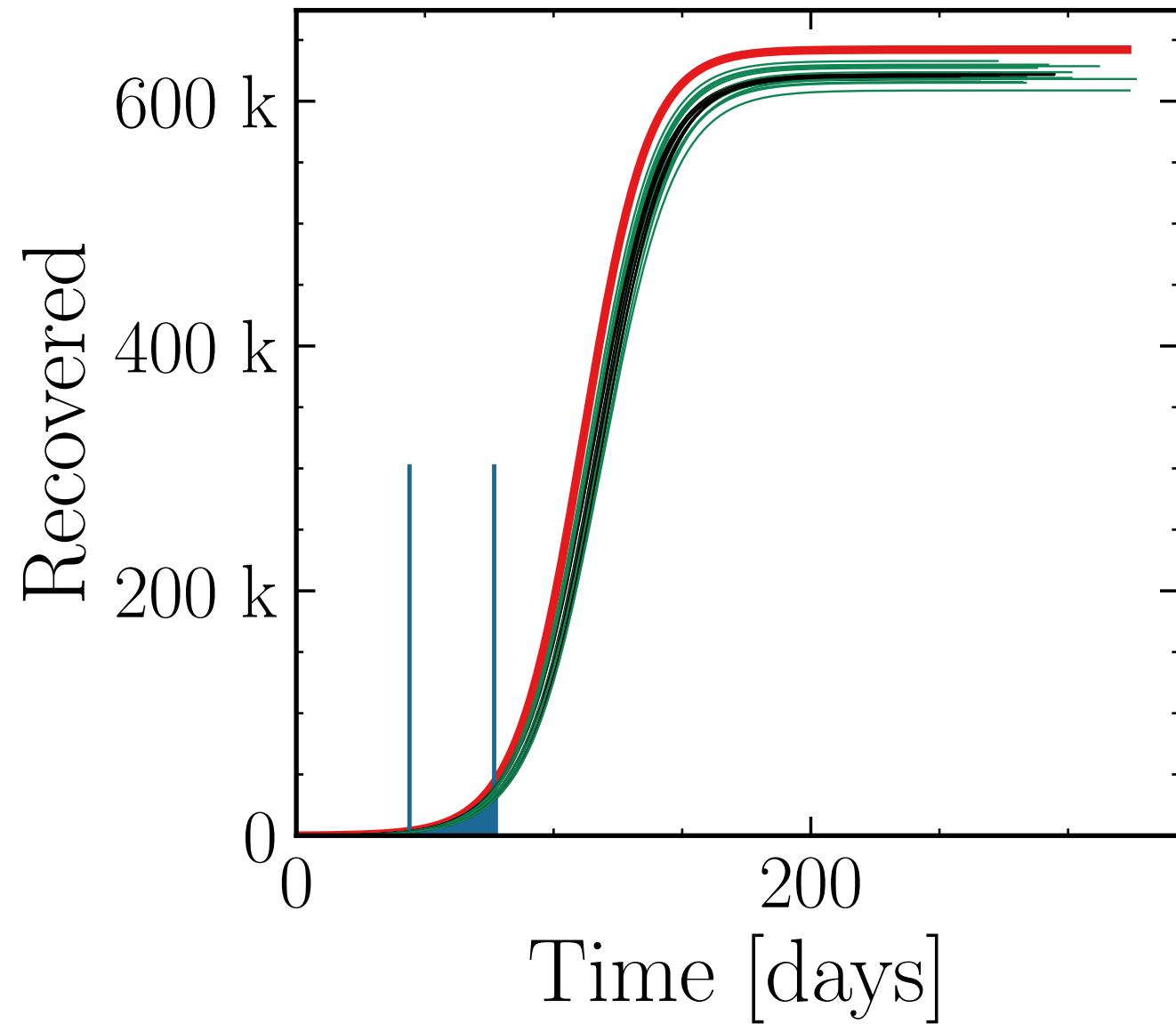
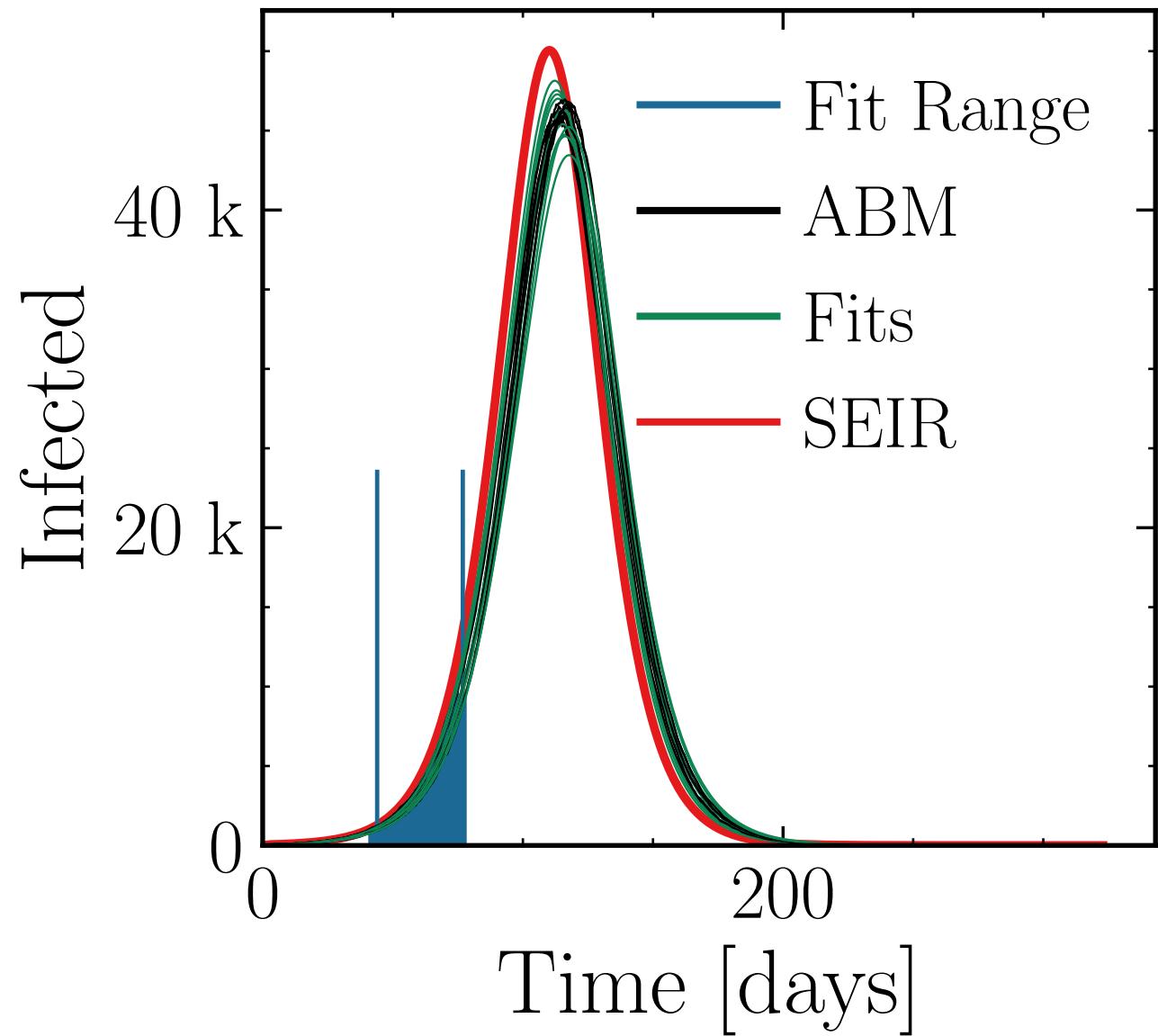
$N_{\text{tot}} = 1M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 46^{+1.7}_{-1.2} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.99 \pm 0.01$$

$$R_{\infty}^{\text{fit}} = 621^{+8}_{-6} \cdot 10^3$$

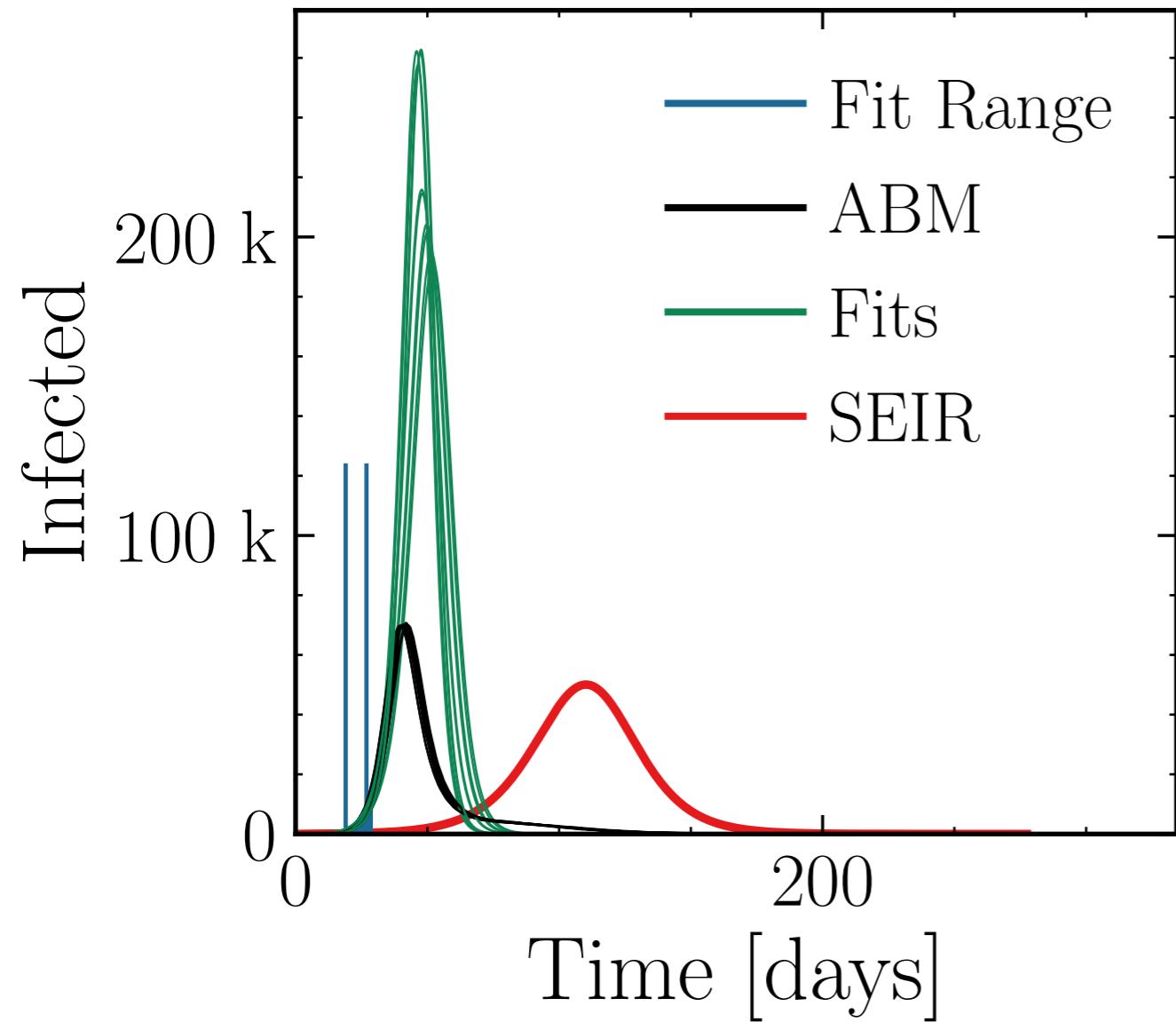
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.002 \pm 0.0040$$



$N_{\text{tot}} = 1M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

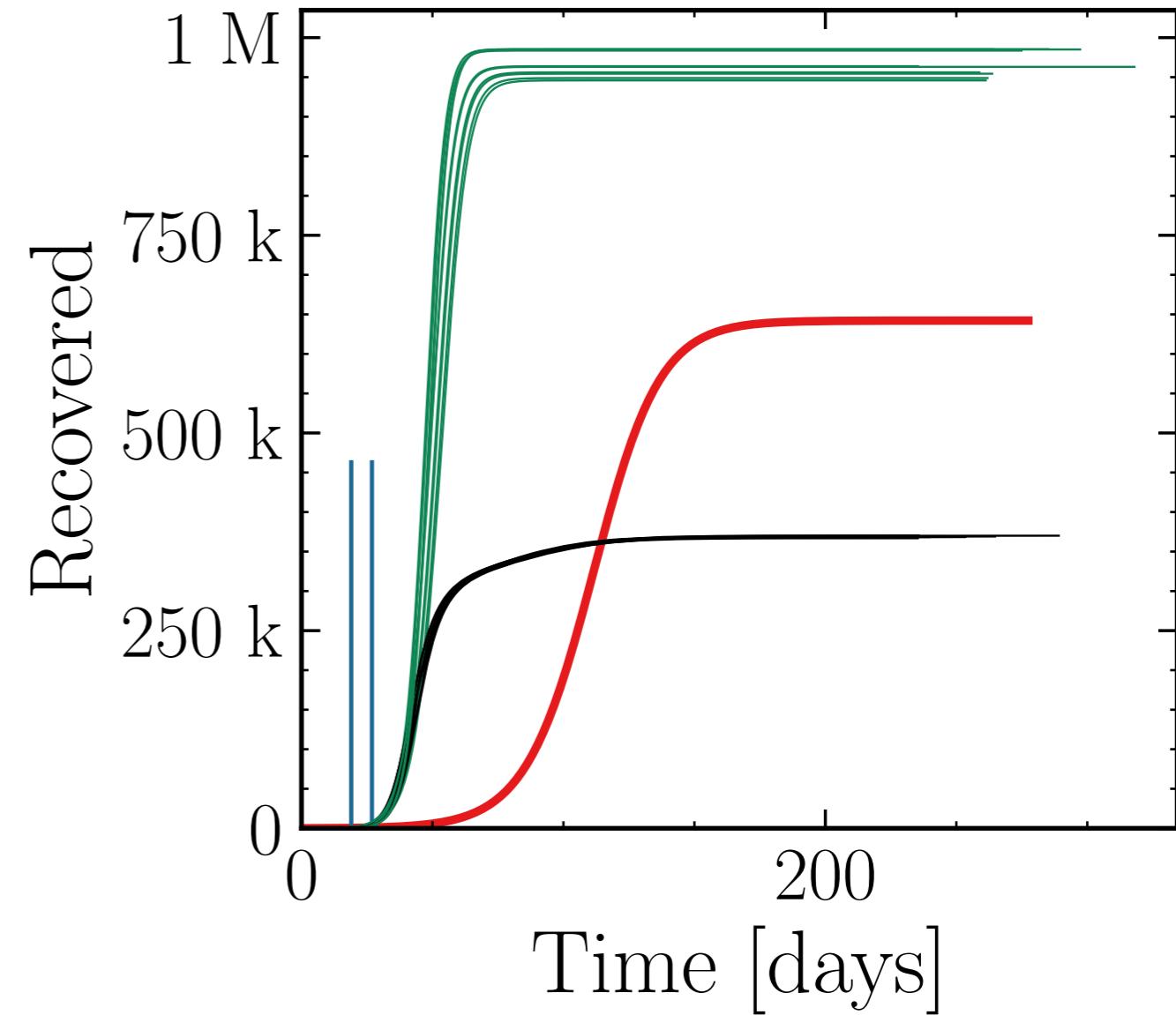
$$I_{\max}^{\text{fit}} = 22^{+5}_{-2} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 3.2 \pm 0.13$$



$$R_{\infty}^{\text{fit}} = 96^{+2}_{-1.5} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.62 \pm 0.013$$



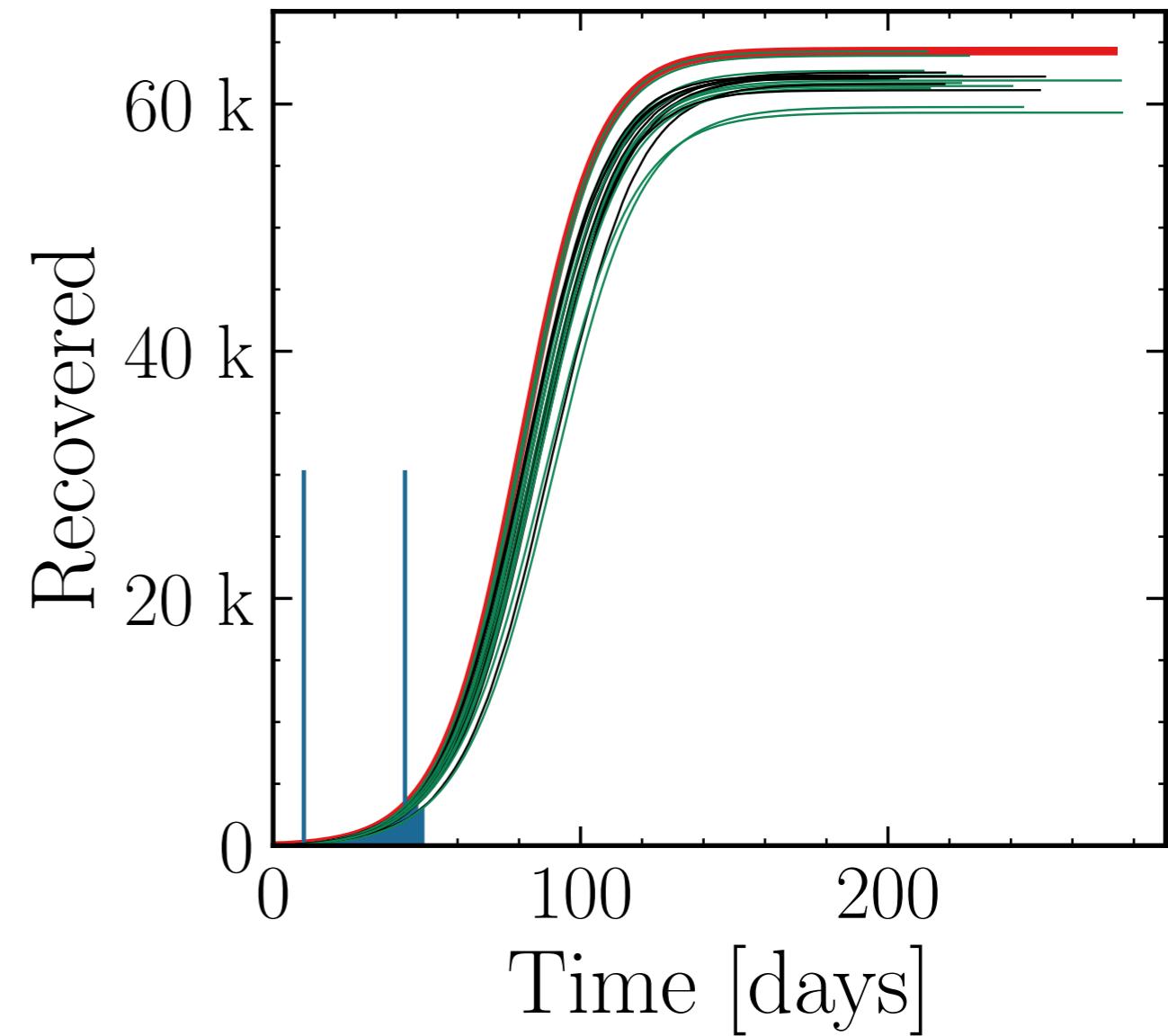
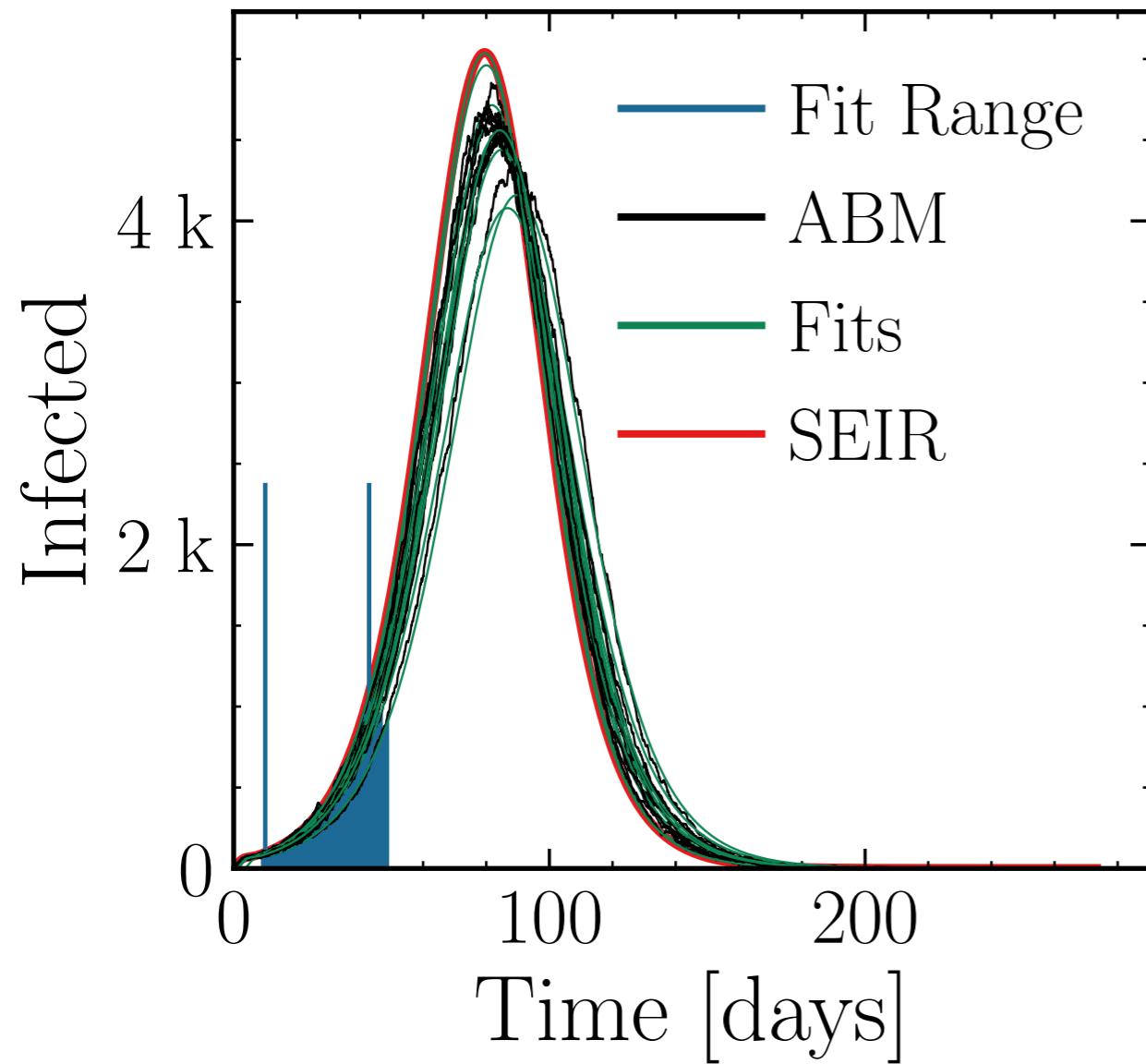
$N_{\text{tot}} = 100K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 45^{+4}_{-4} \cdot 10^2$$

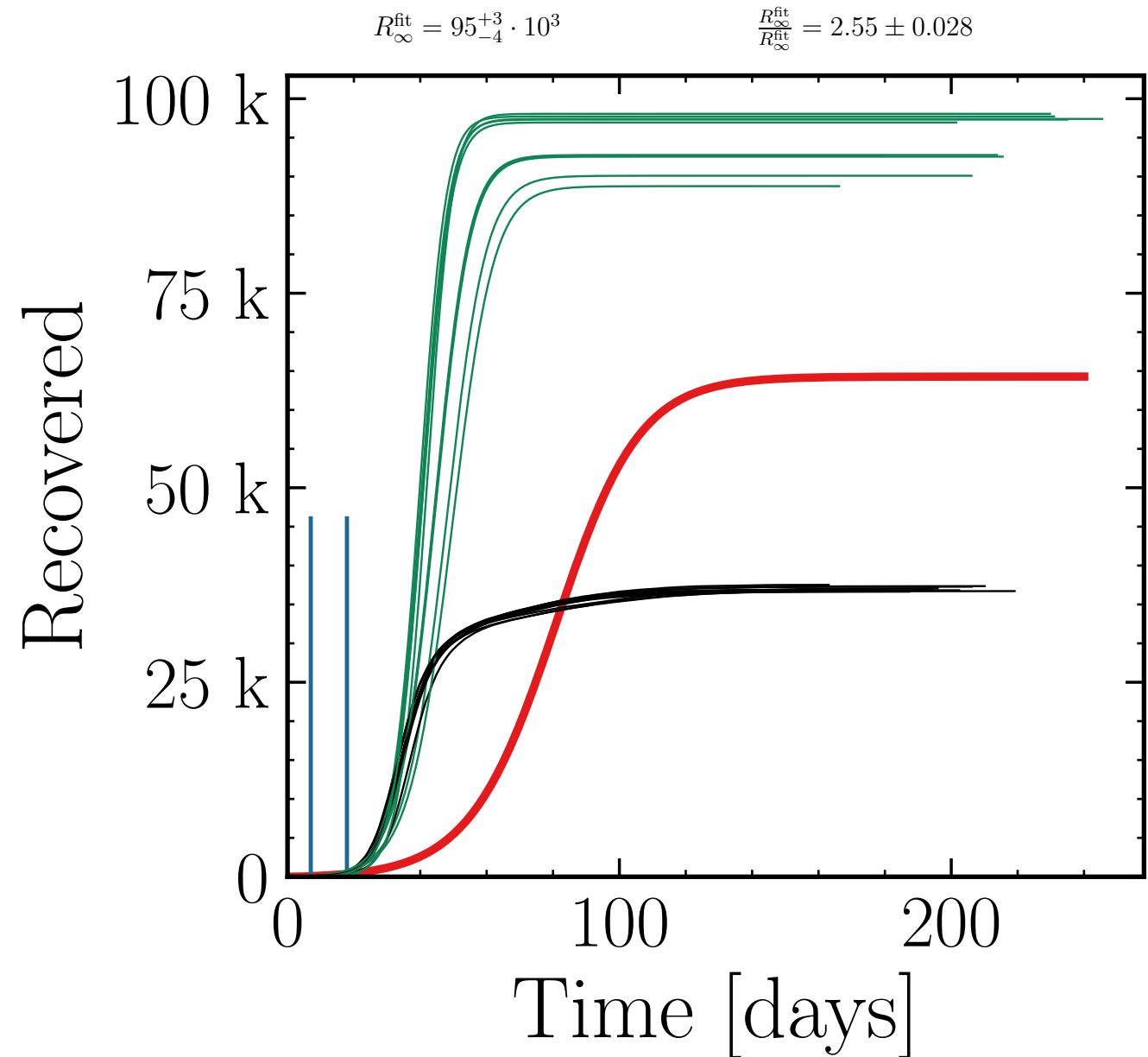
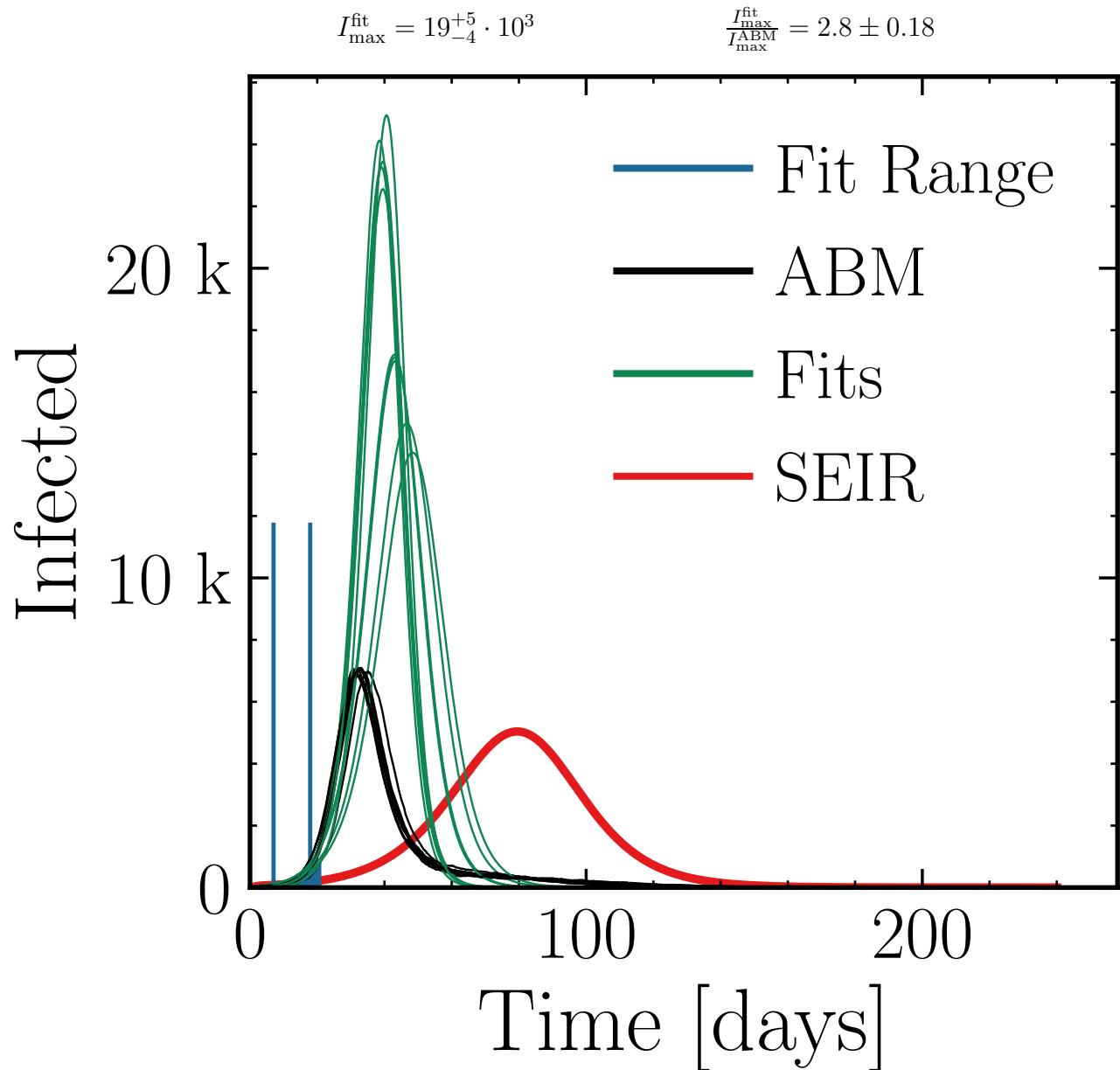
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.99 \pm 0.02$$

$$R_{\infty}^{\text{fit}} = 62^{+2}_{-2.0} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 0.996 \pm 0.007$$



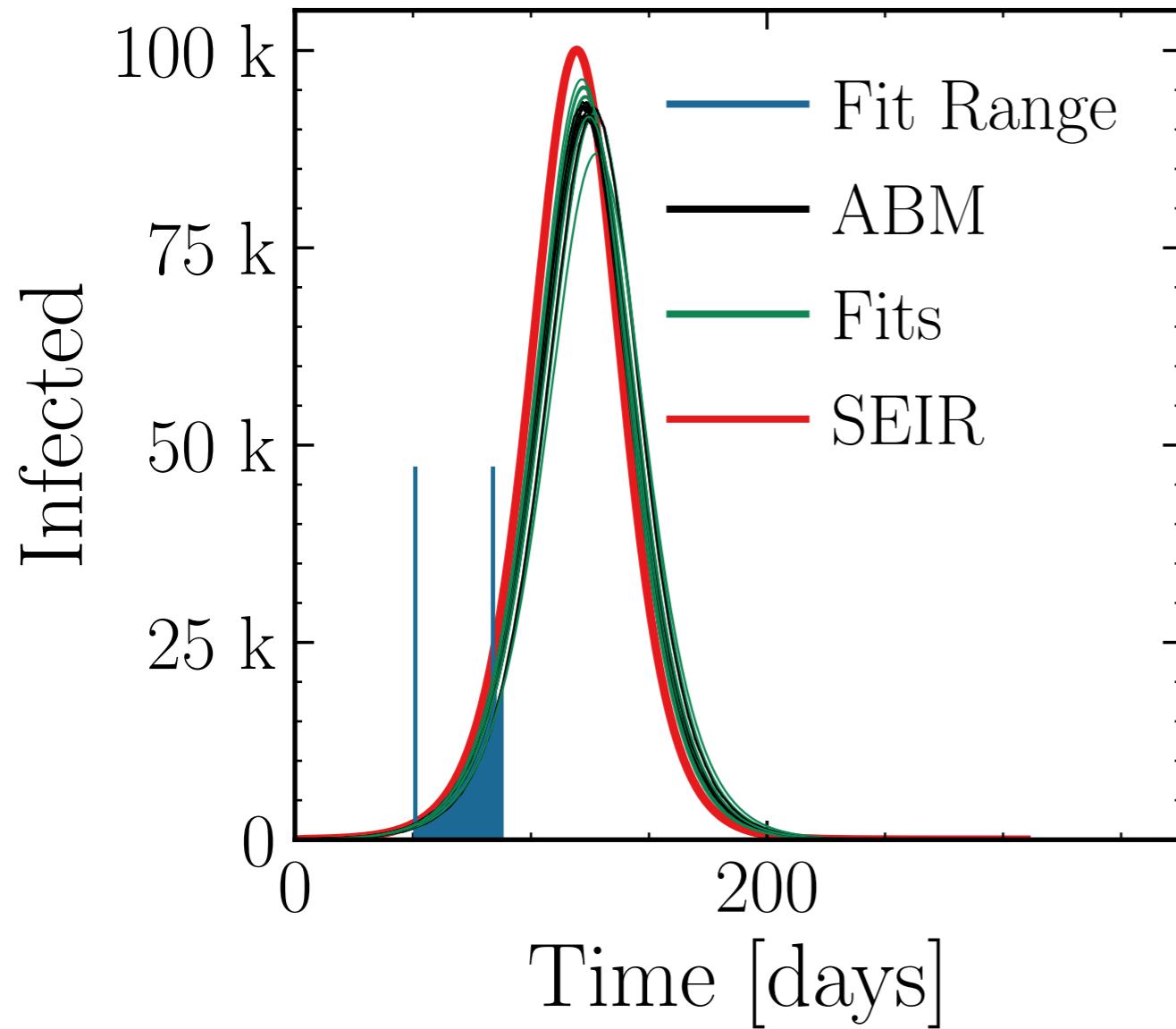
$N_{\text{tot}} = 100K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 2M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

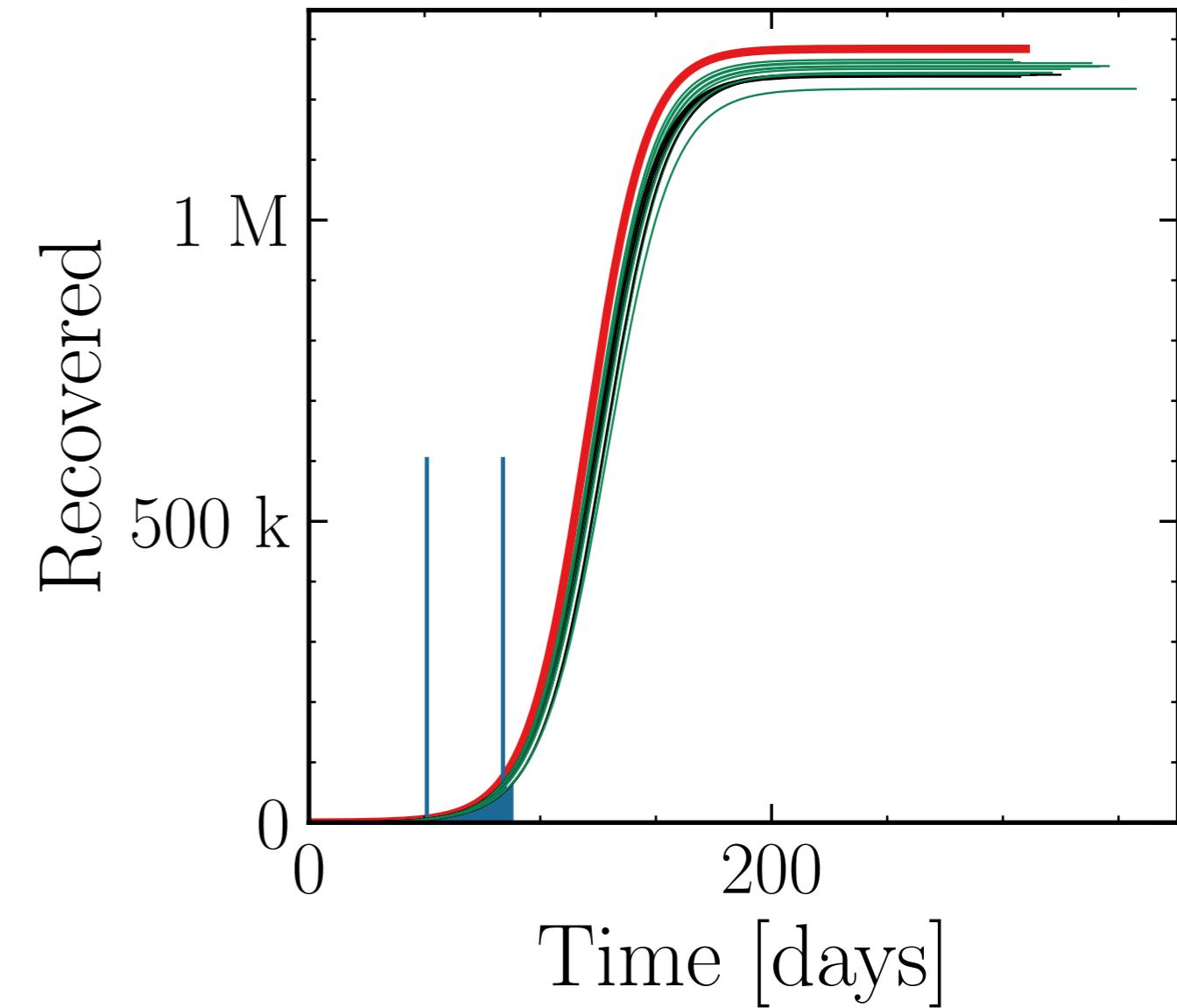
$$I_{\max}^{\text{fit}} = 94^{+1.5}_{-2} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 1.004 \pm 0.0087$$



$$R_{\infty}^{\text{fit}} = 1254^{+7}_{-12} \cdot 10^3$$

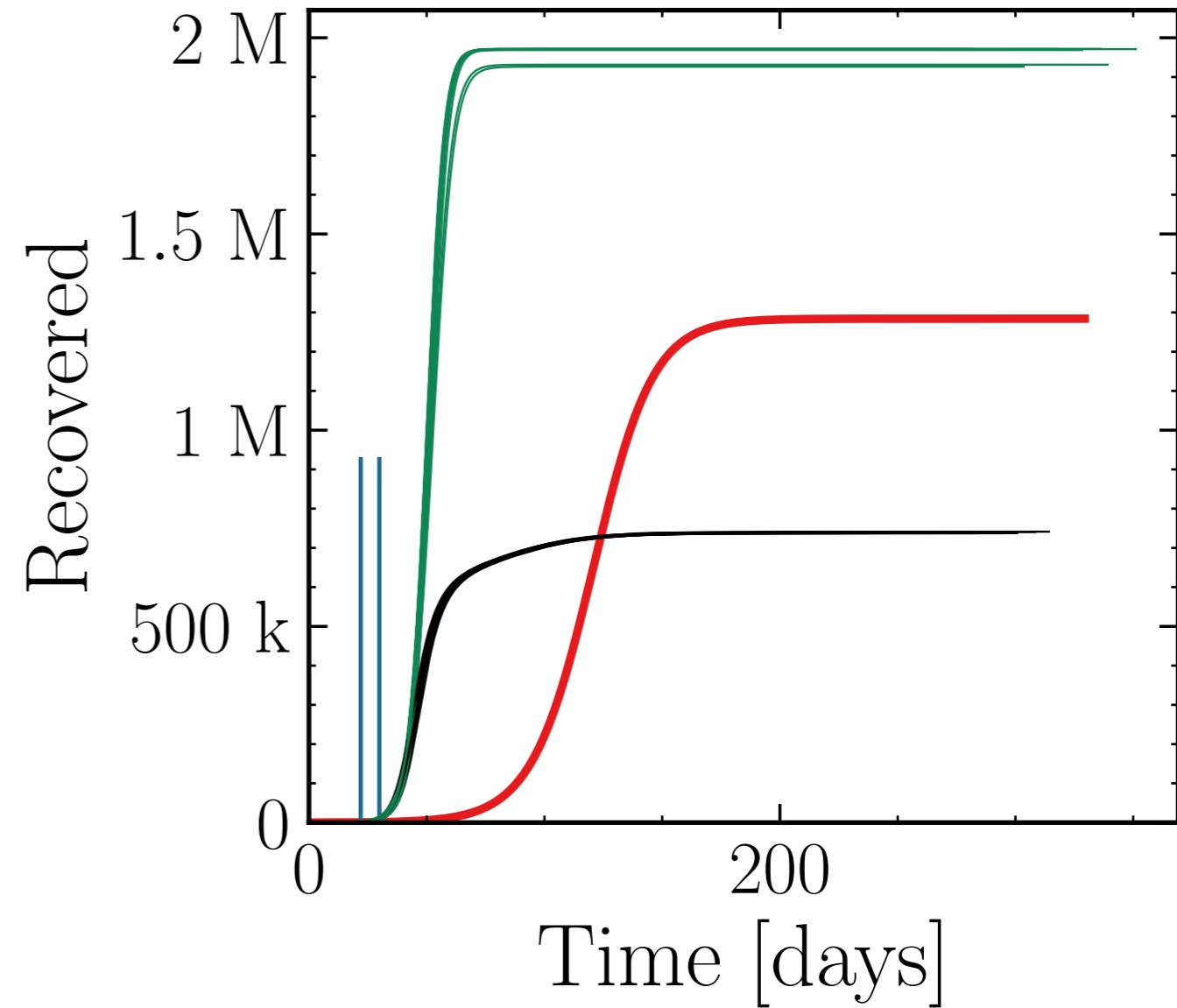
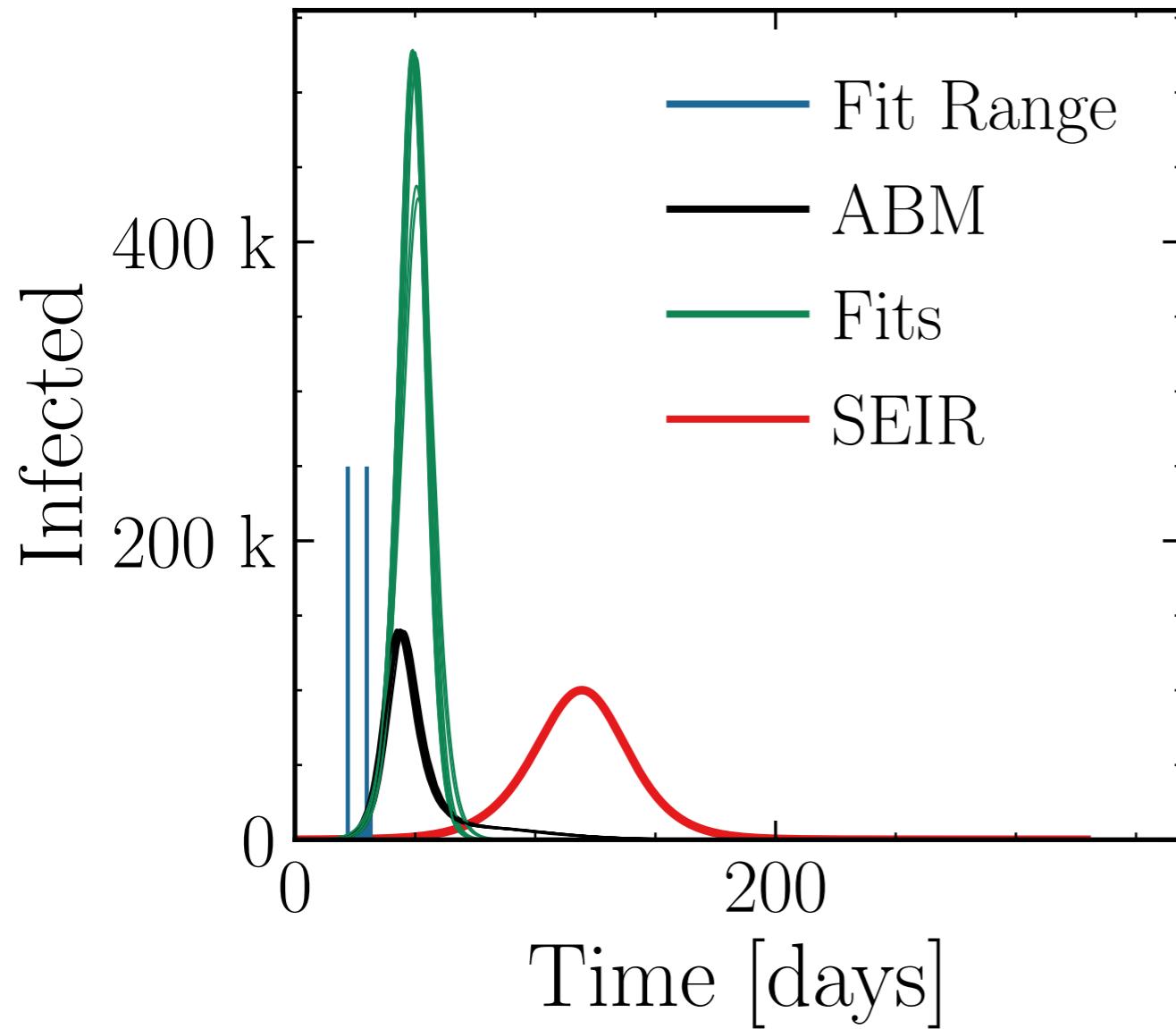
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.007 \pm 0.0034$$



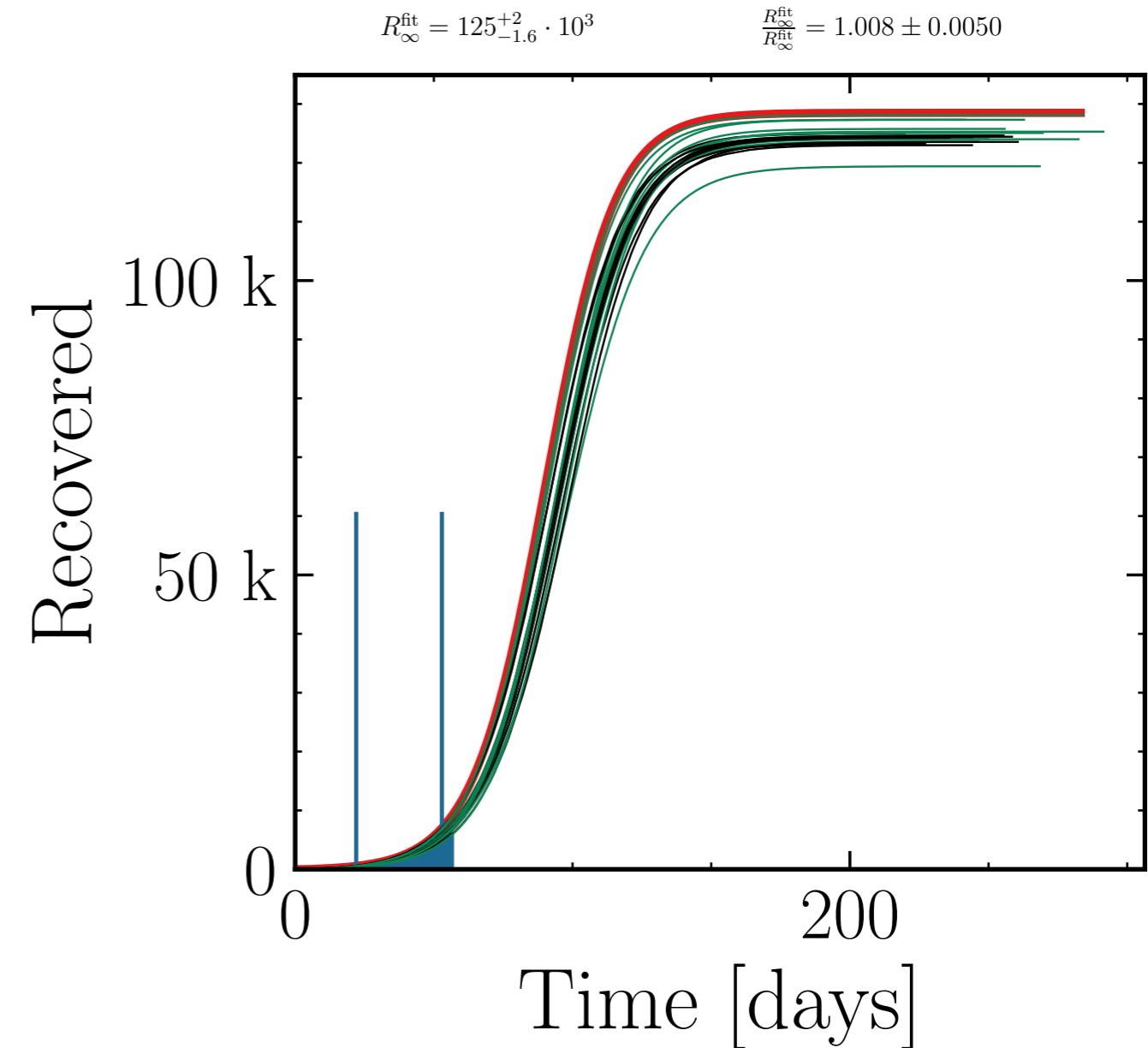
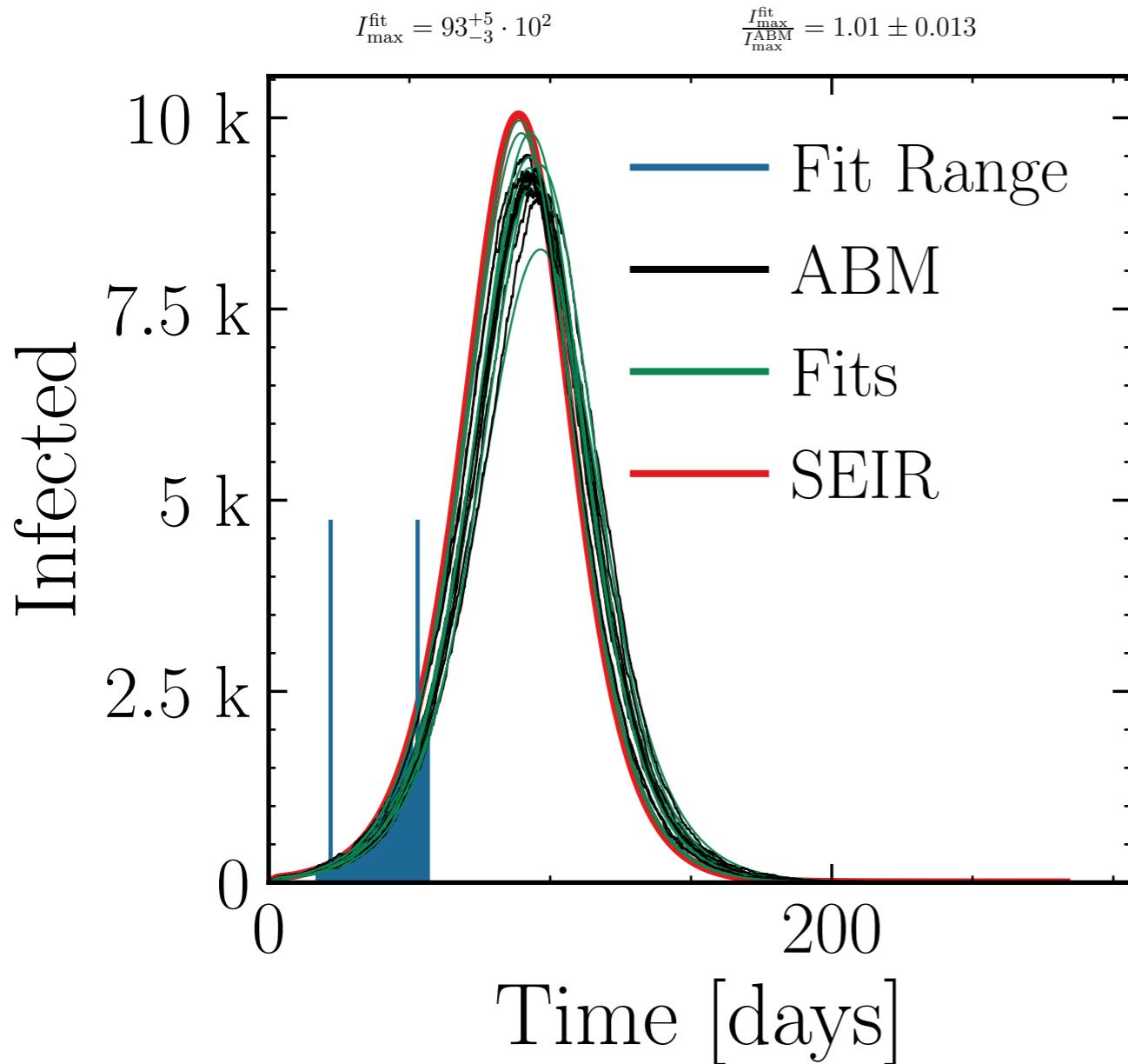
$N_{\text{tot}} = 2M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 523^{+5}_{-90} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 3.62 \pm 0.084$$



$N_{\text{tot}} = 200K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



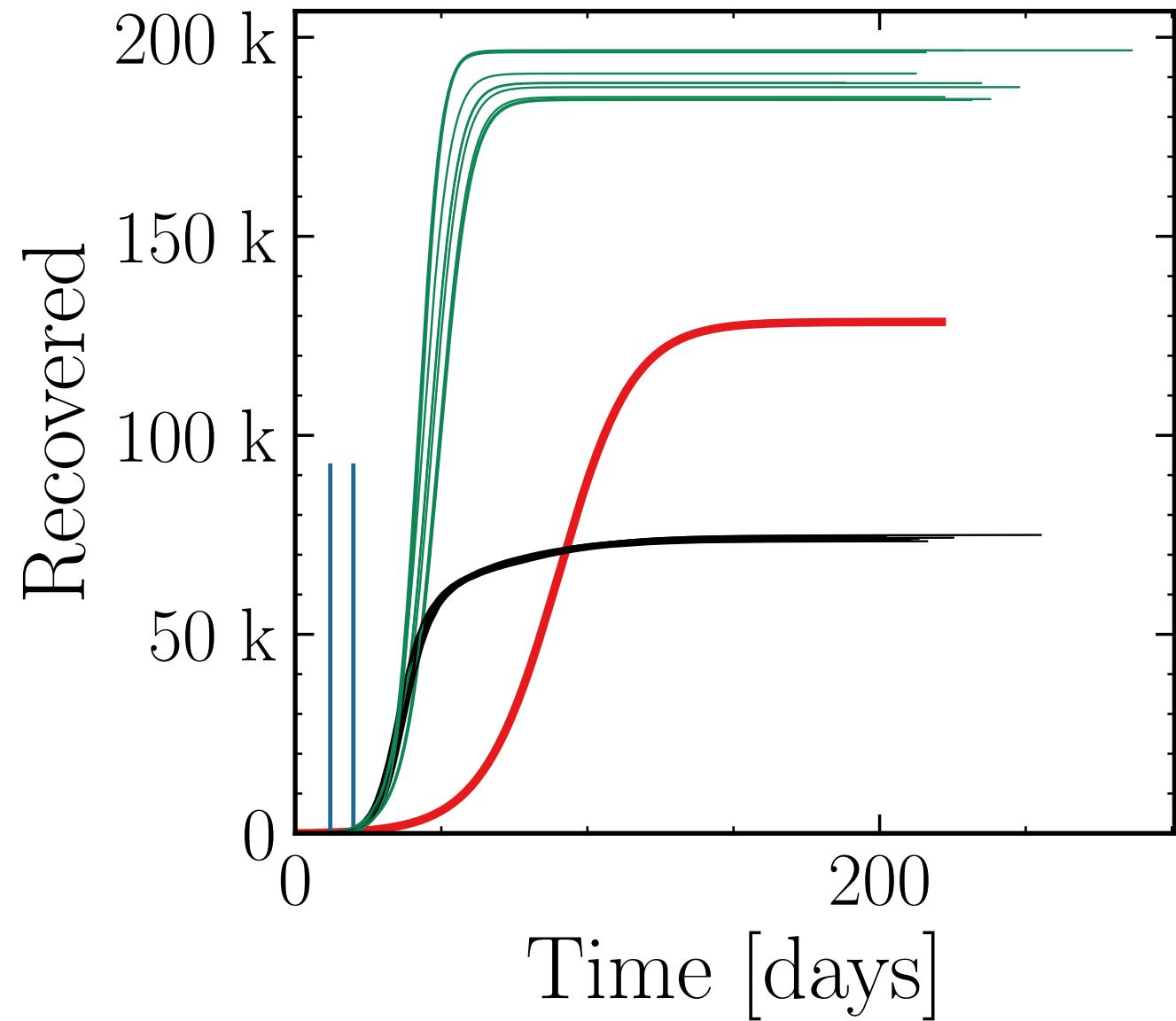
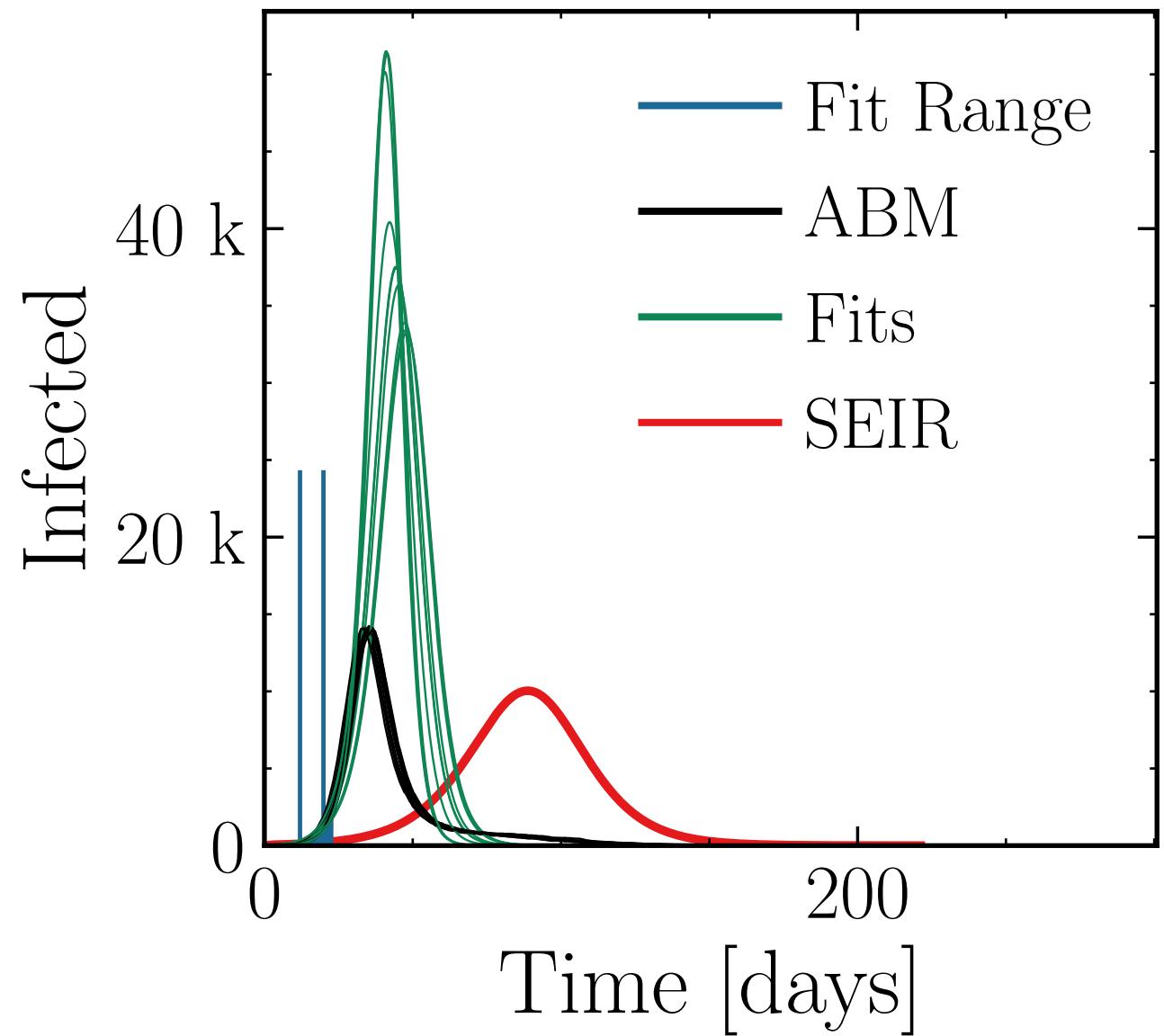
$N_{\text{tot}} = 200K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 3.7^{+1.4}_{-0.4} \cdot 10^4$$

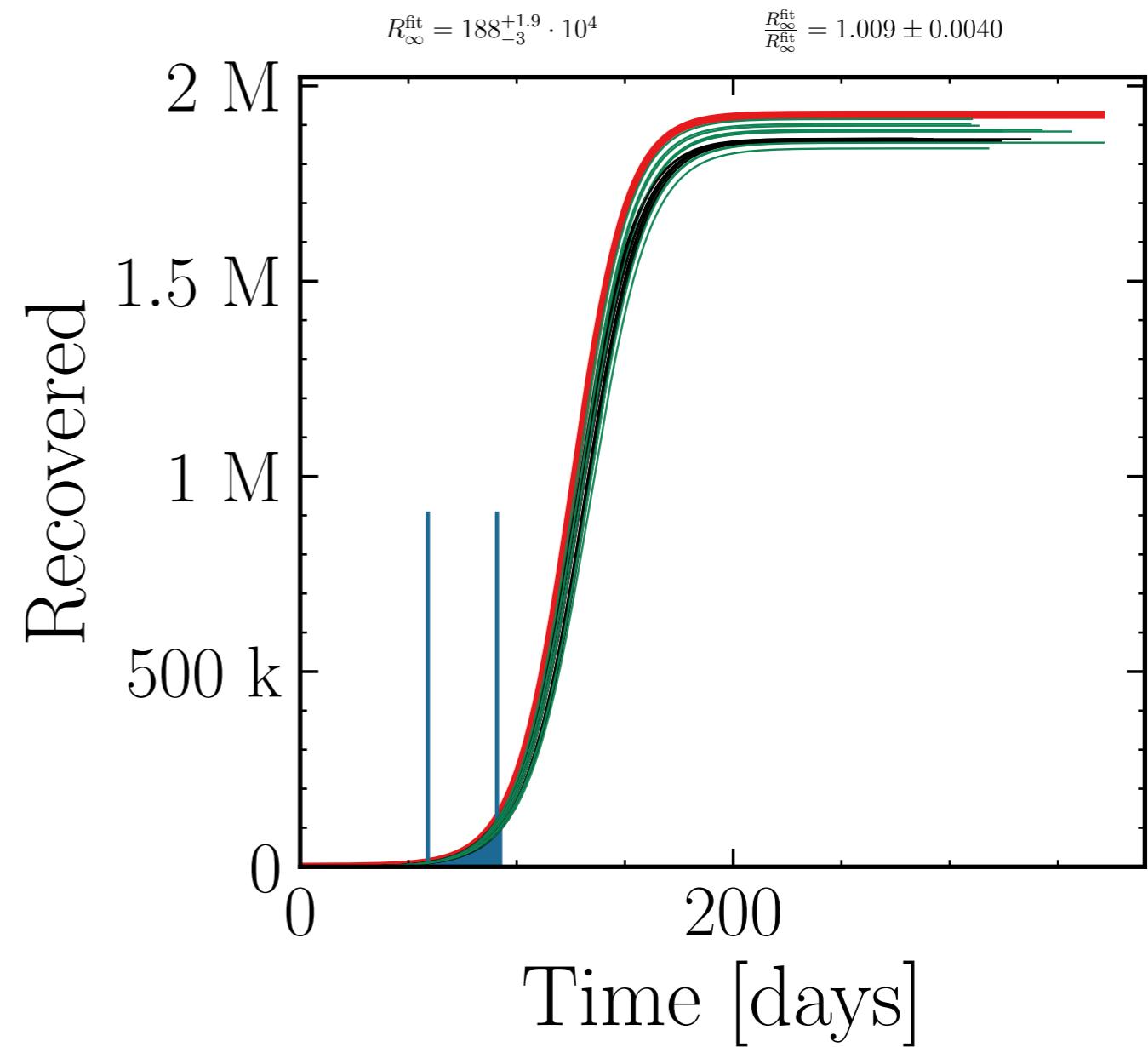
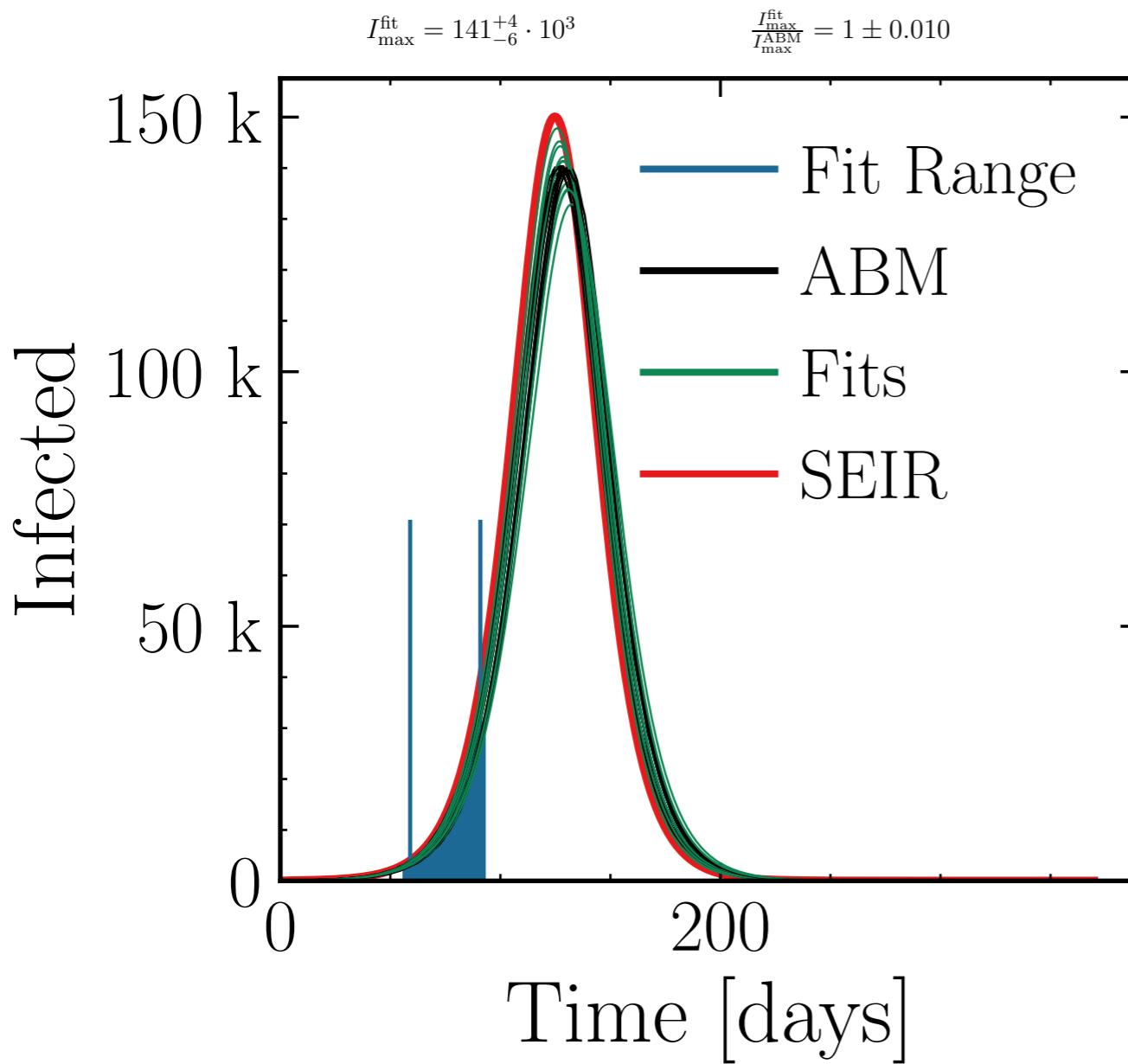
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.9 \pm 0.16$$

$$R_{\infty}^{\text{fit}} = 189^{+8}_{-4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.56 \pm 0.018$$



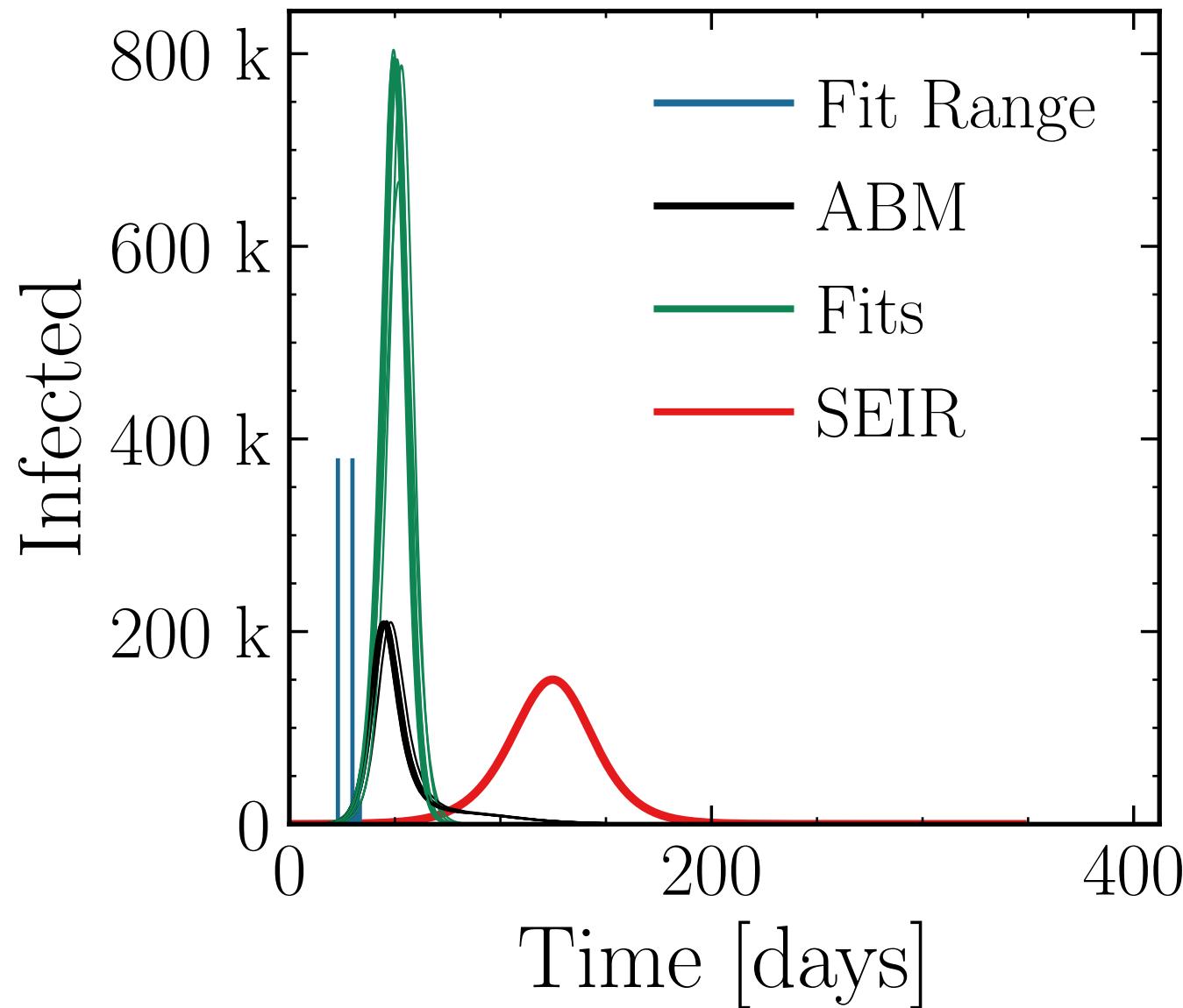
$N_{\text{tot}} = 3M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 3M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

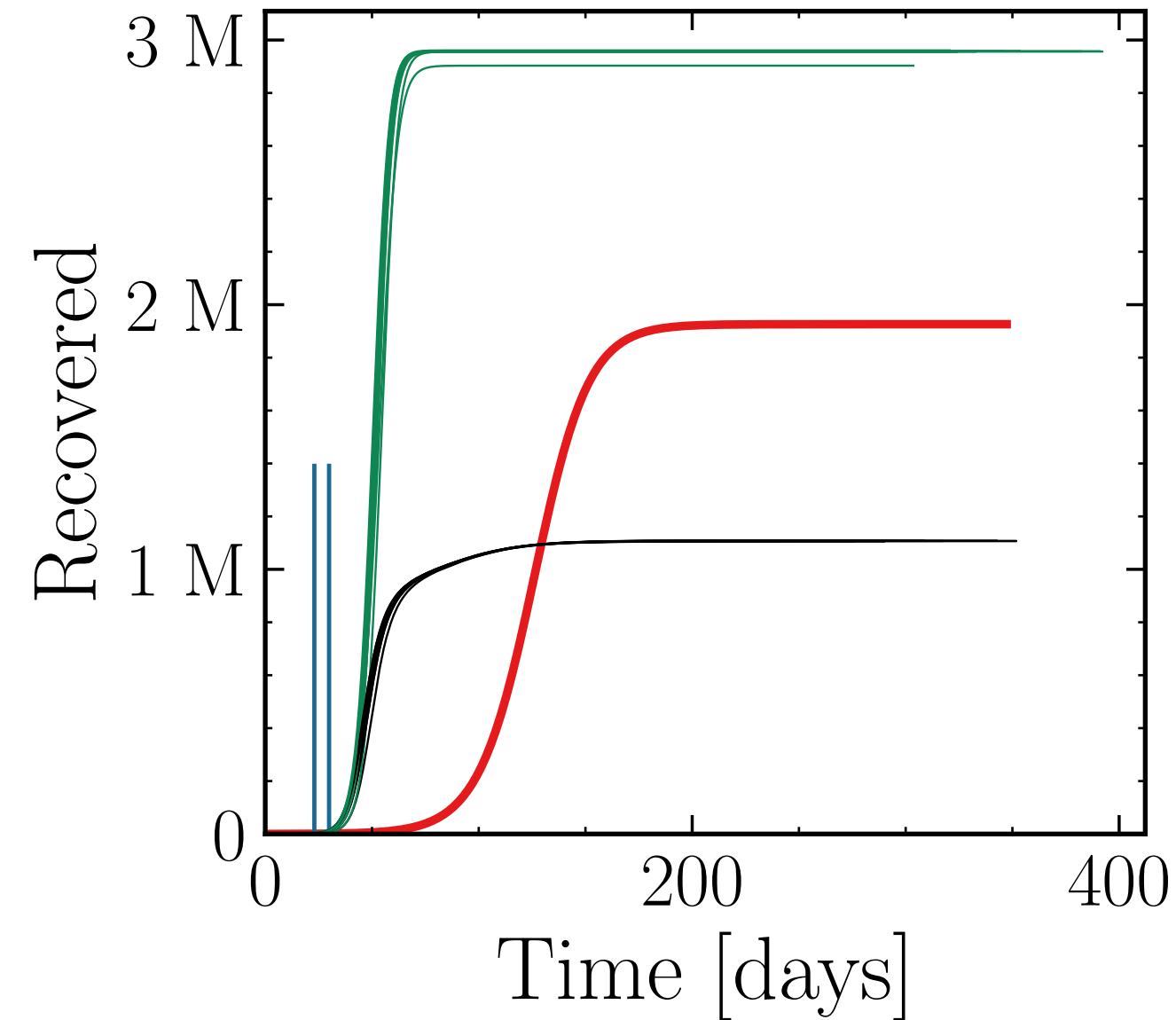
$$I_{\max}^{\text{fit}} = 792^{+7}_{-9} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 3.72 \pm 0.056$$

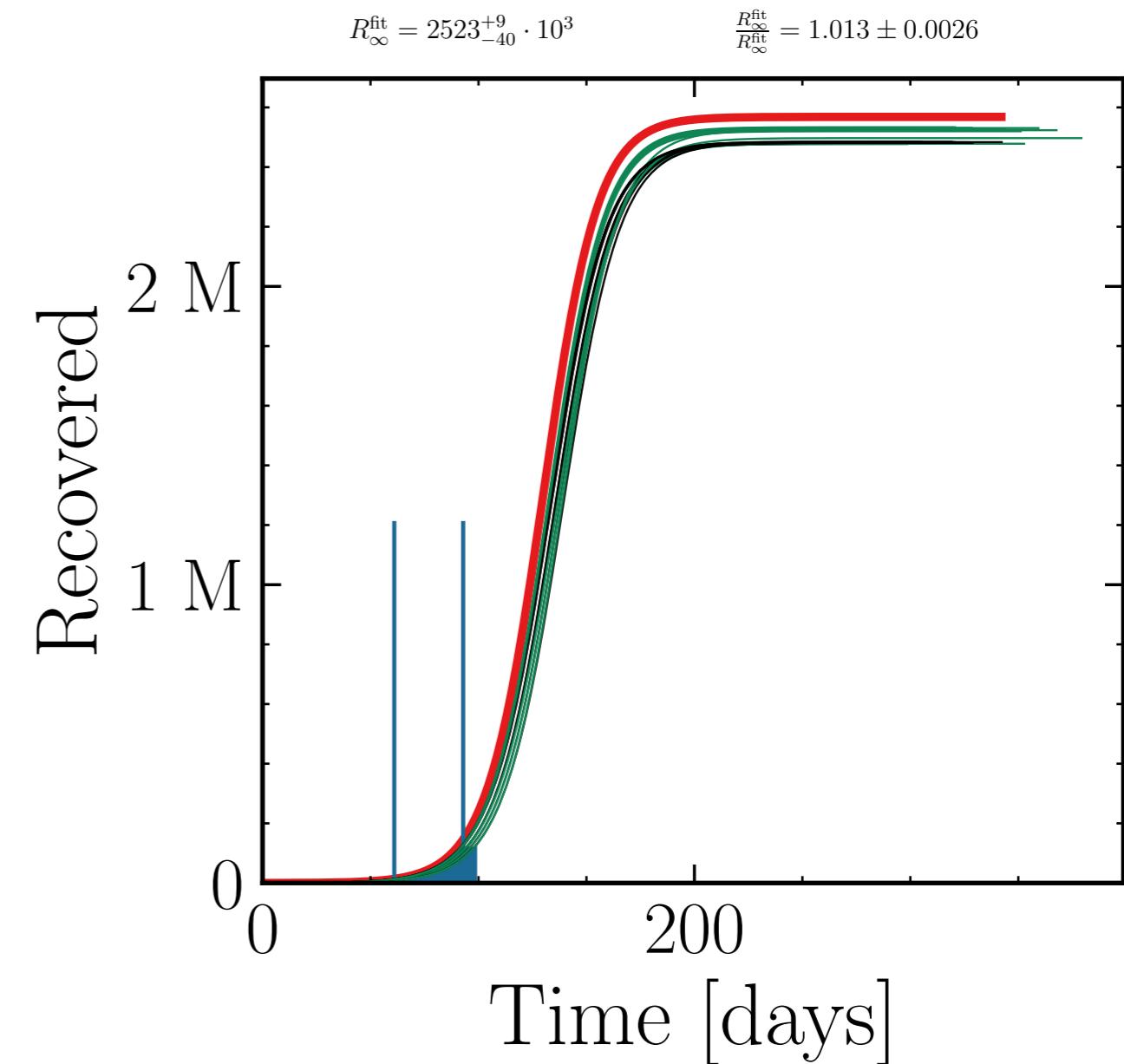
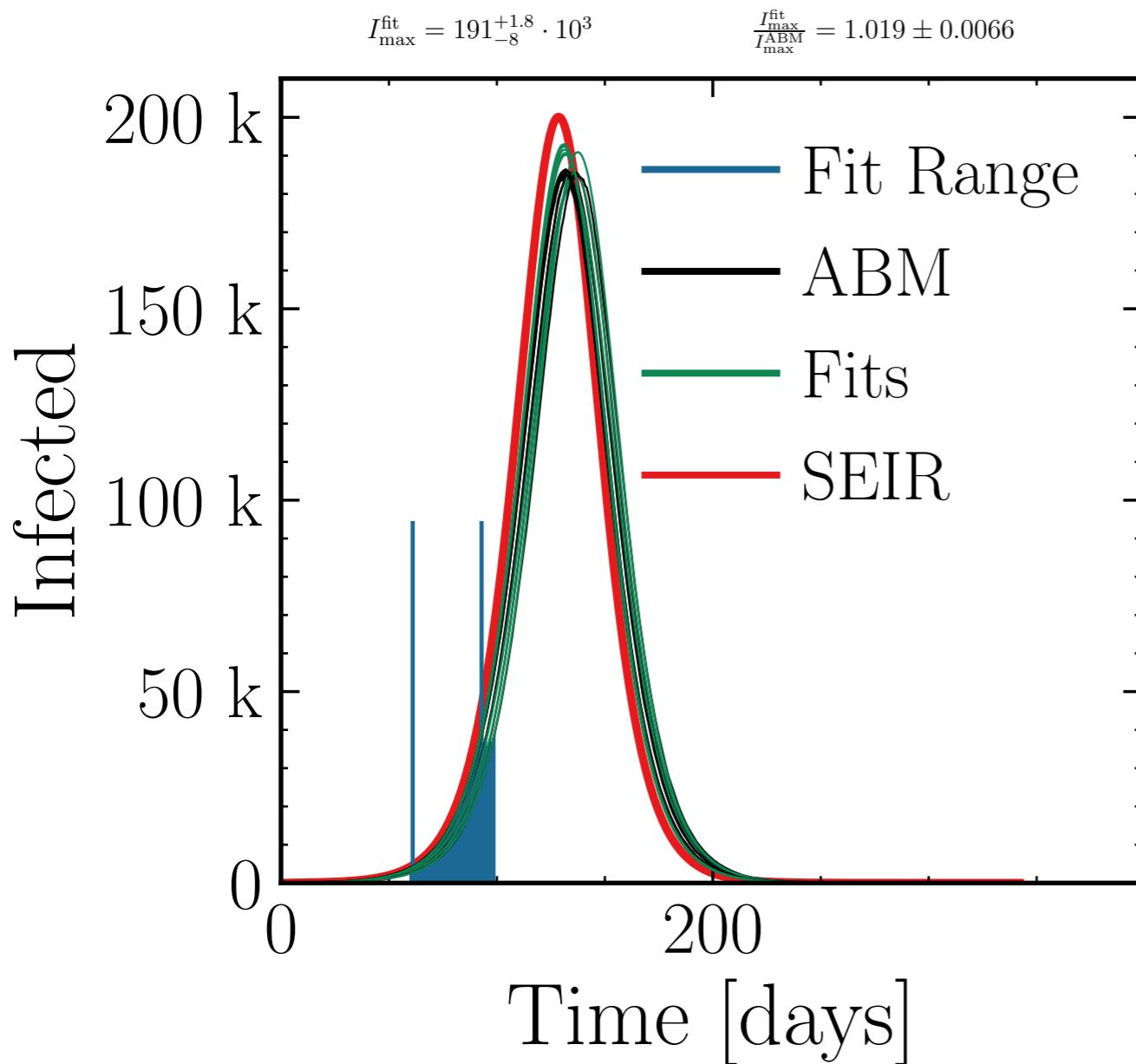


$$R_{\infty}^{\text{fit}} = 2957^{+2}_{-3} \cdot 10^3$$

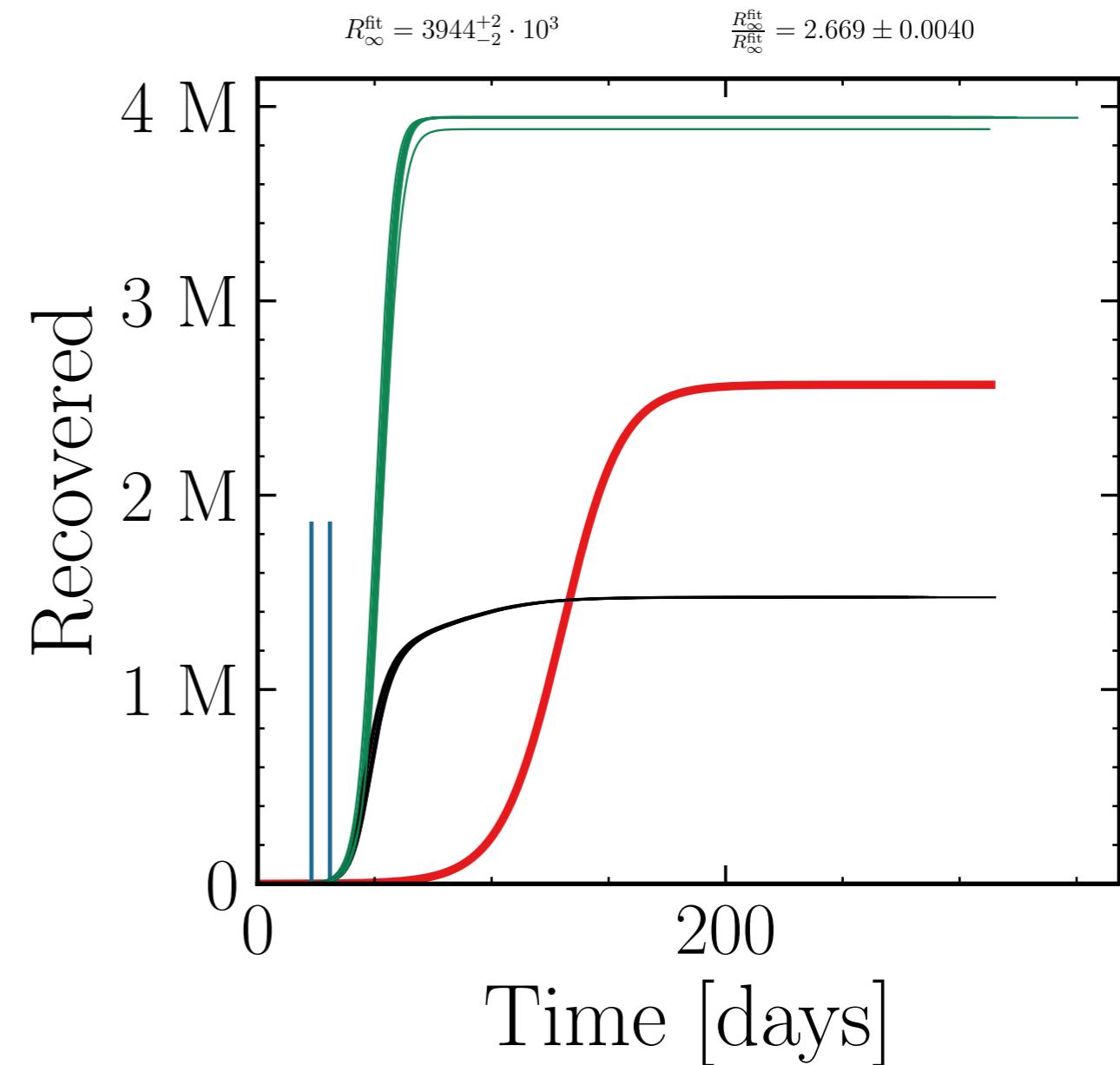
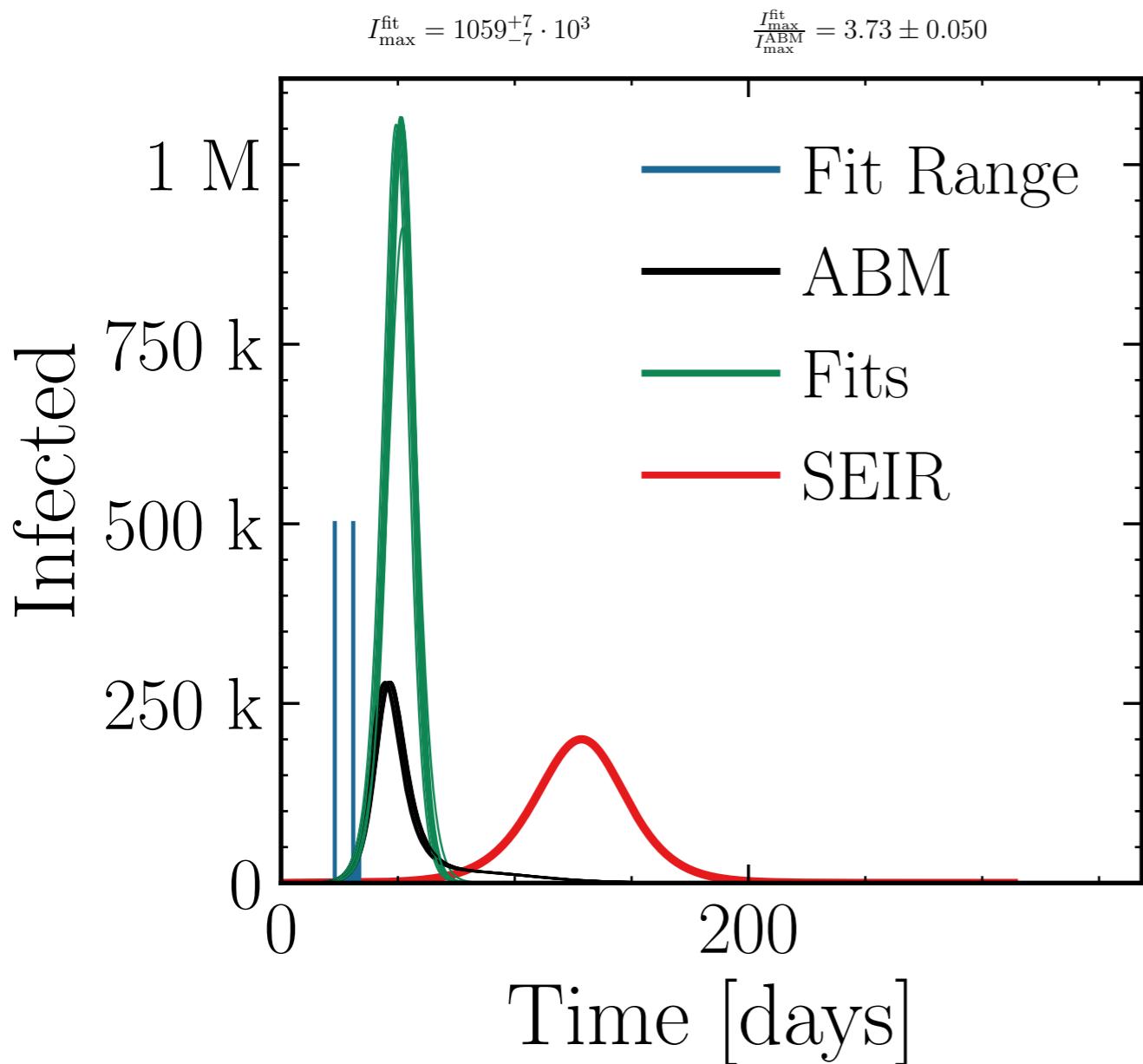
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.666 \pm 0.0043$$



$N_{\text{tot}} = 4M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 4M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



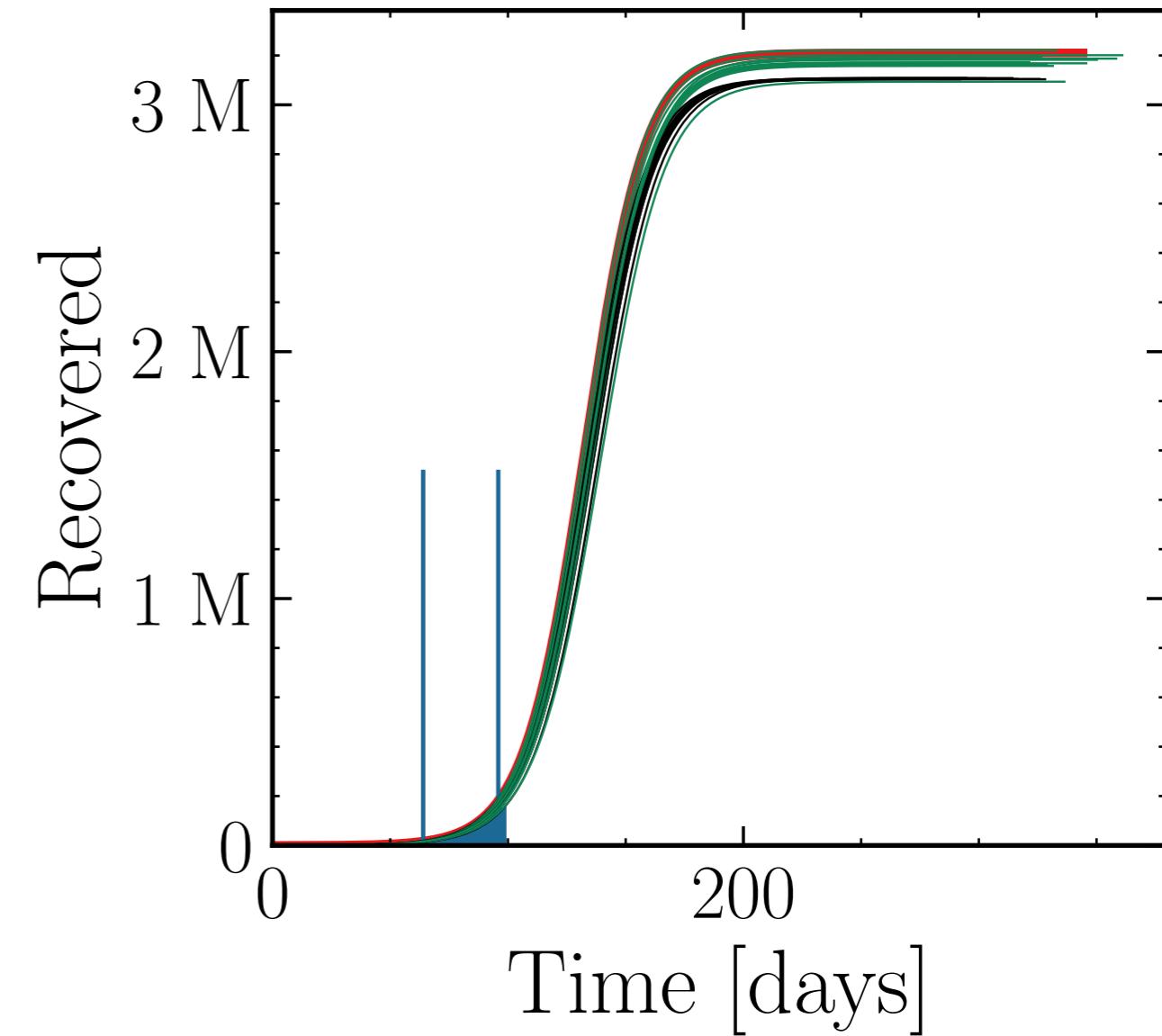
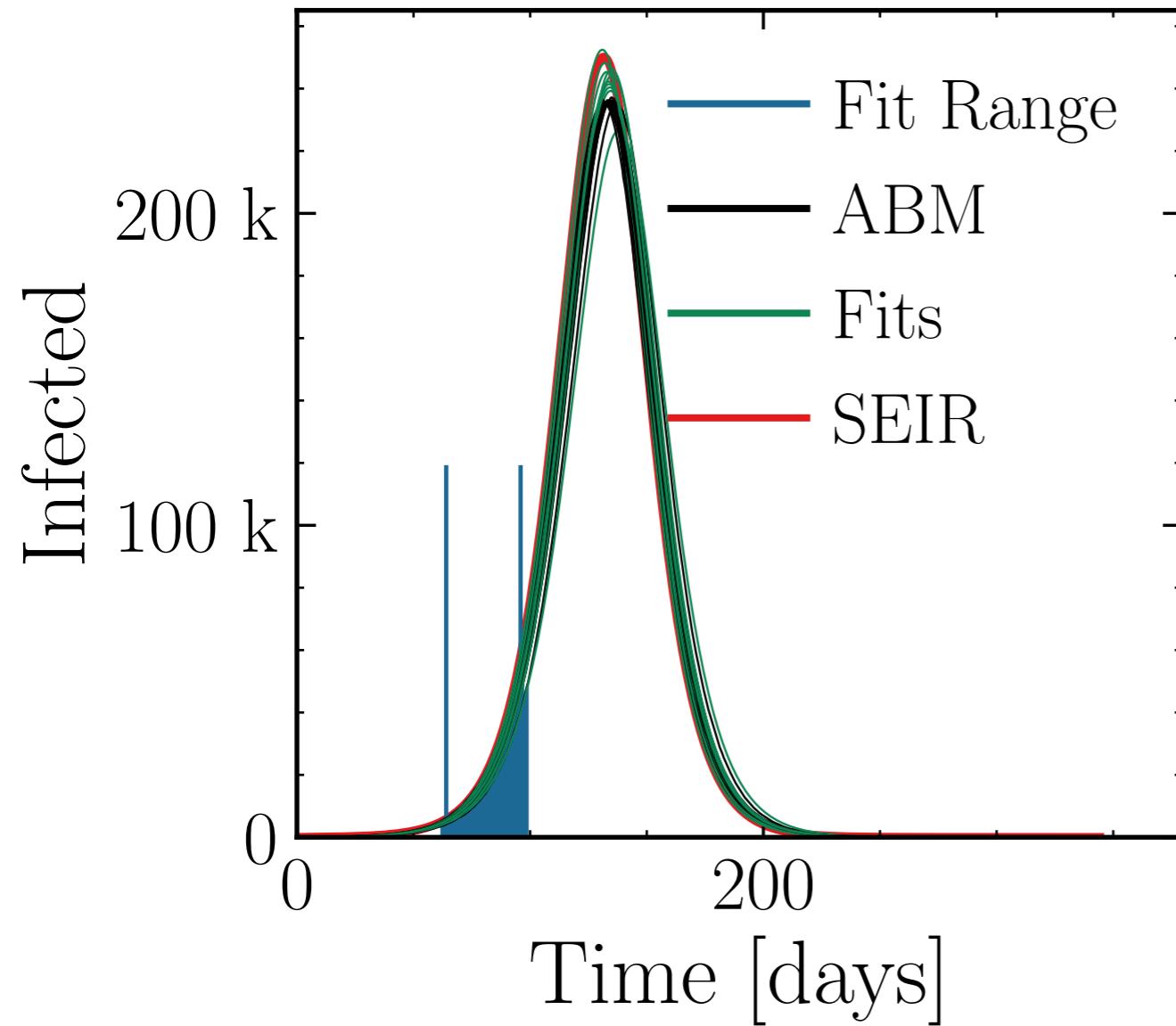
$N_{\text{tot}} = 5M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 243^{+6}_{-3} \cdot 10^3$$

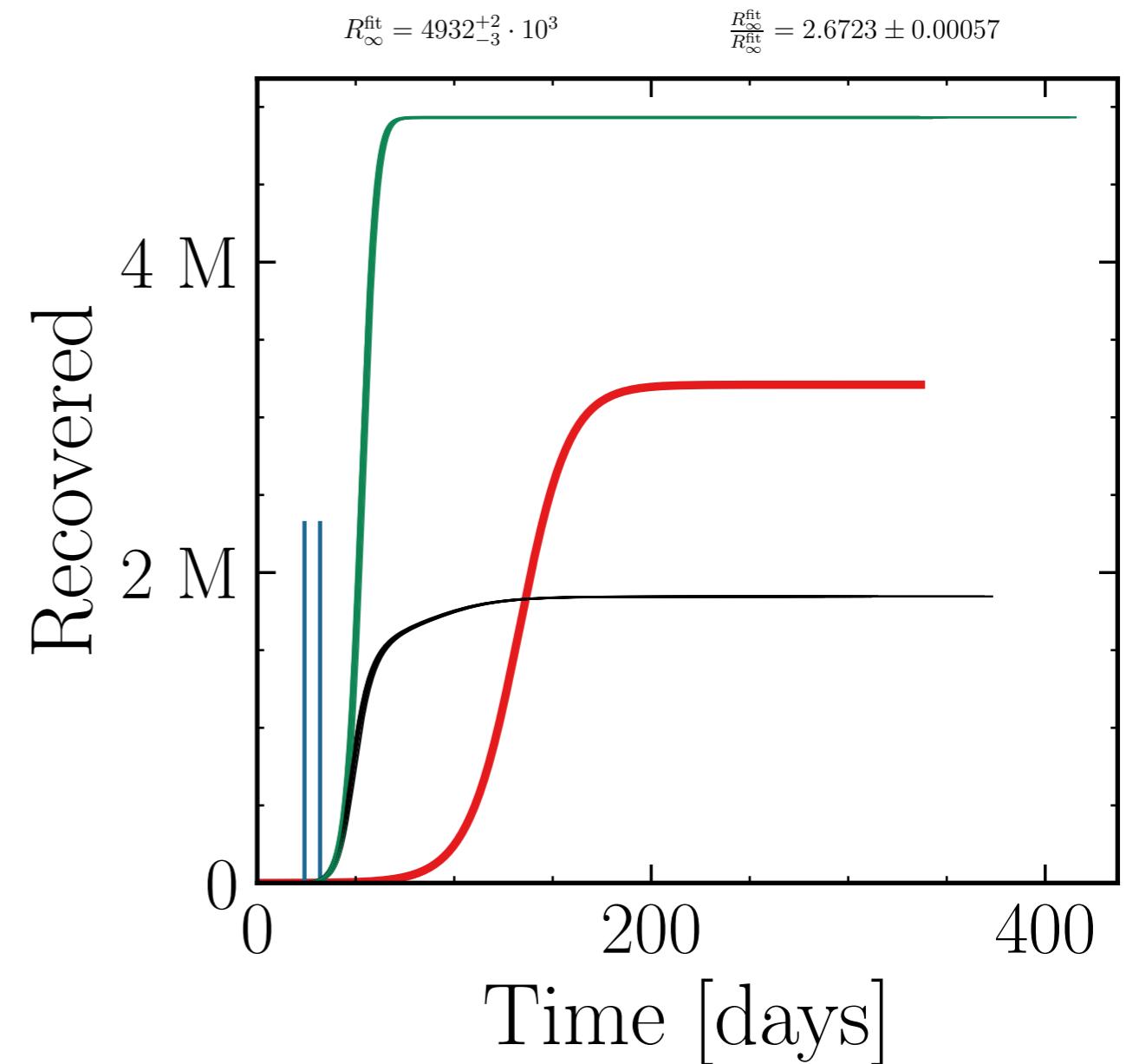
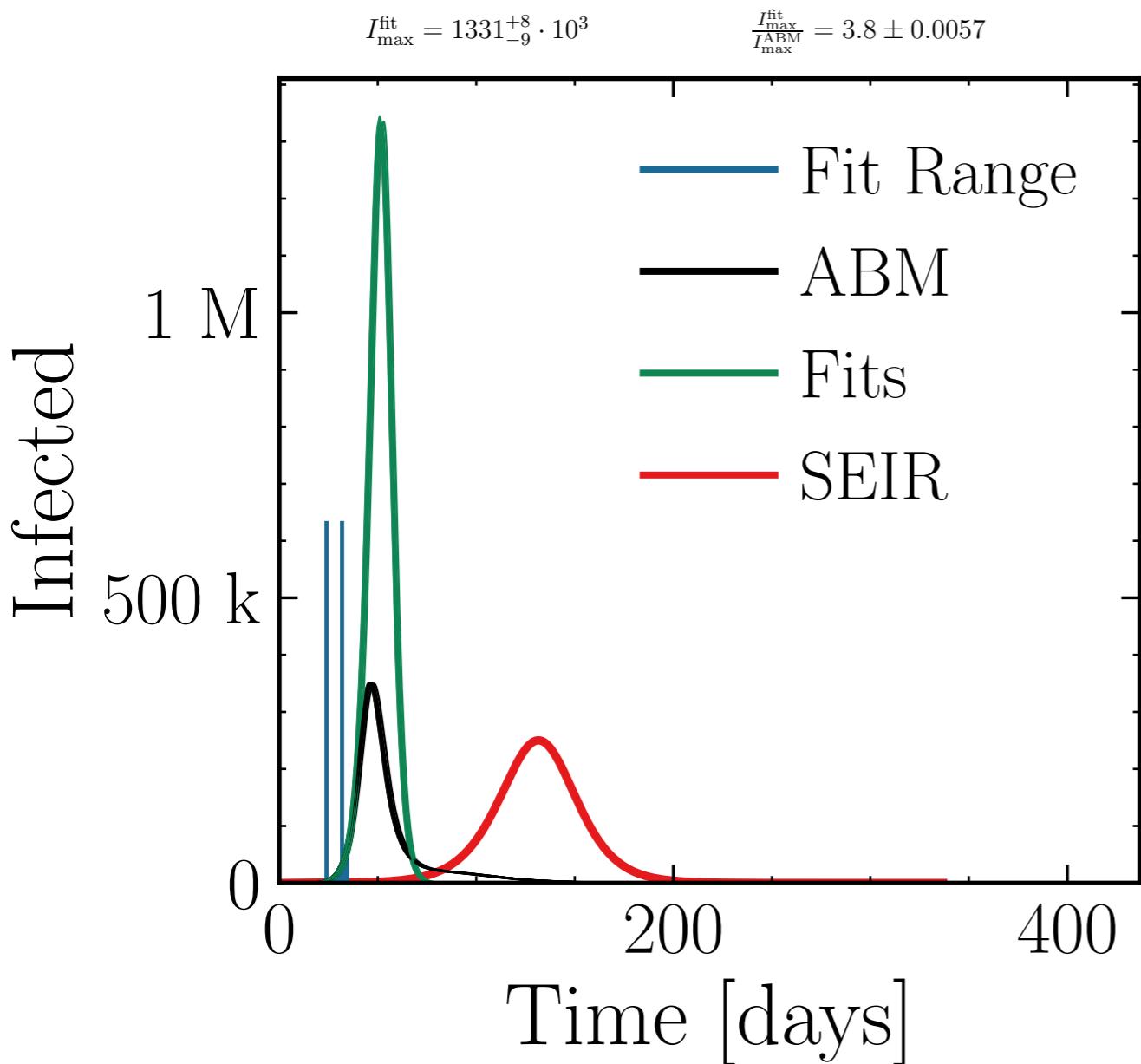
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 1.029 \pm 0.0082$$

$$R_{\infty}^{\text{fit}} = 317^{+3}_{-1.6} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.022 \pm 0.0032$$



$N_{\text{tot}} = 5M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



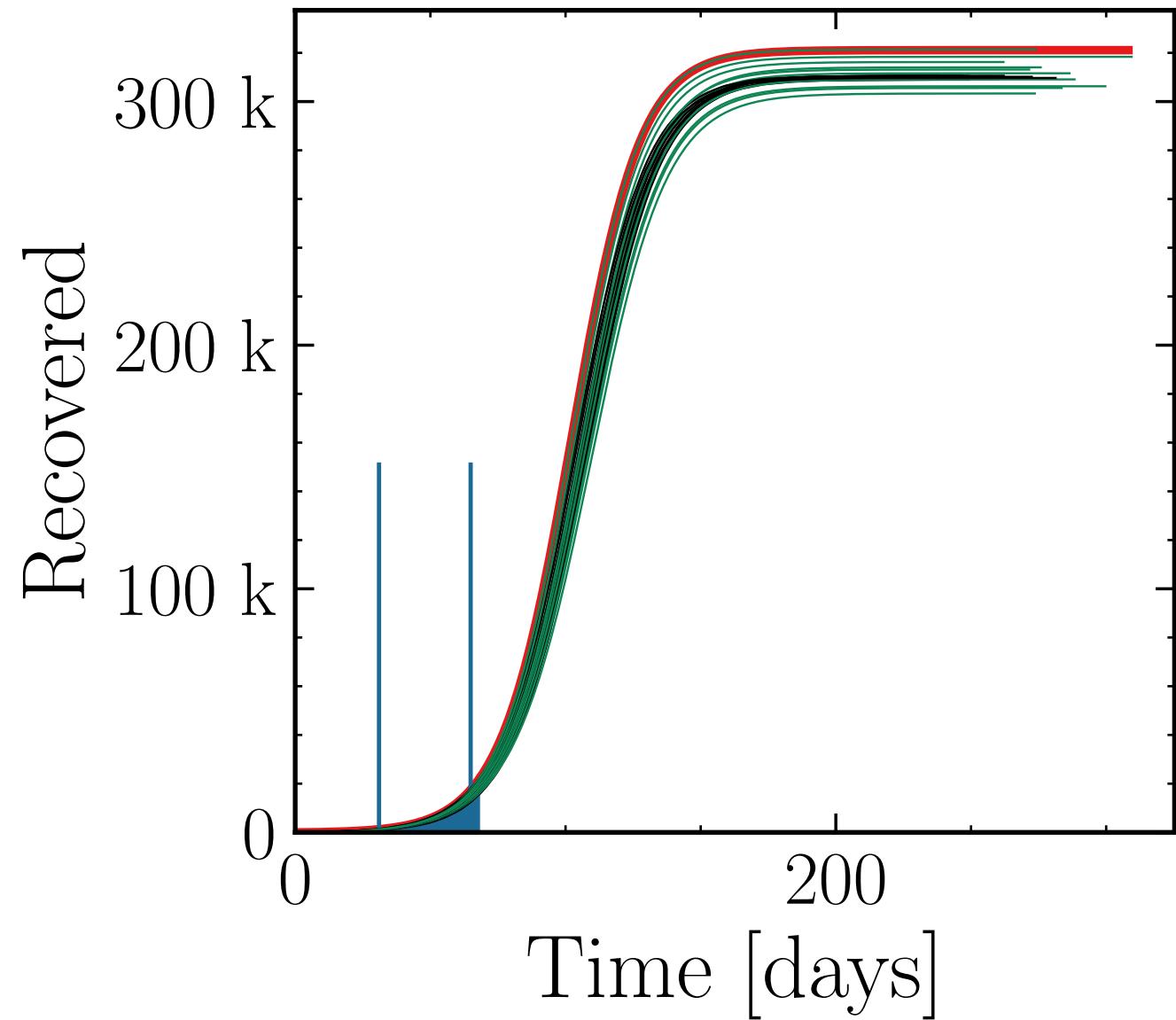
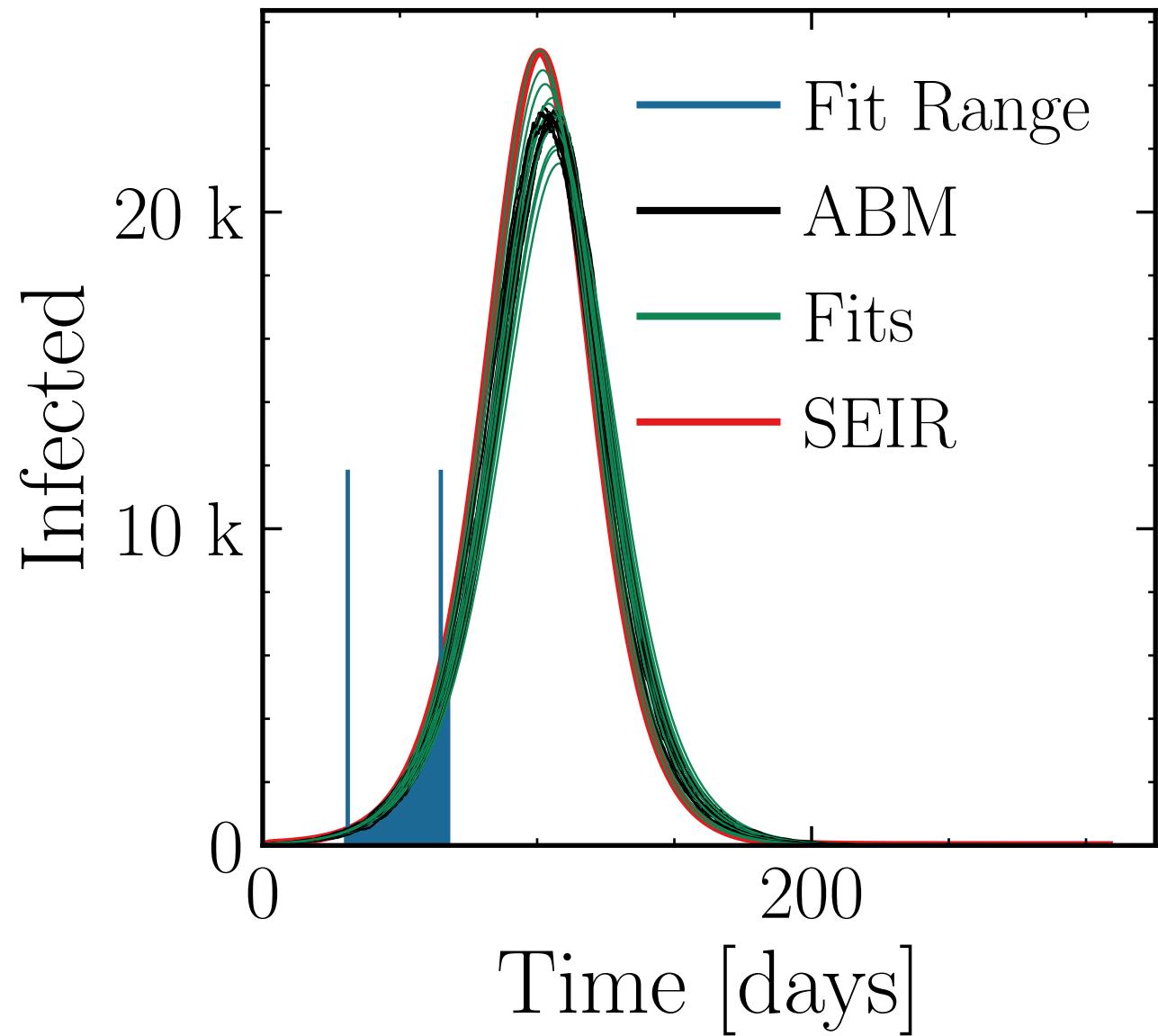
$N_{\text{tot}} = 500K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 23^{+1.3}_{-1.2} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.015$$

$$R_{\infty}^{\text{fit}} = 312^{+6}_{-6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.006 \pm 0.0056$$



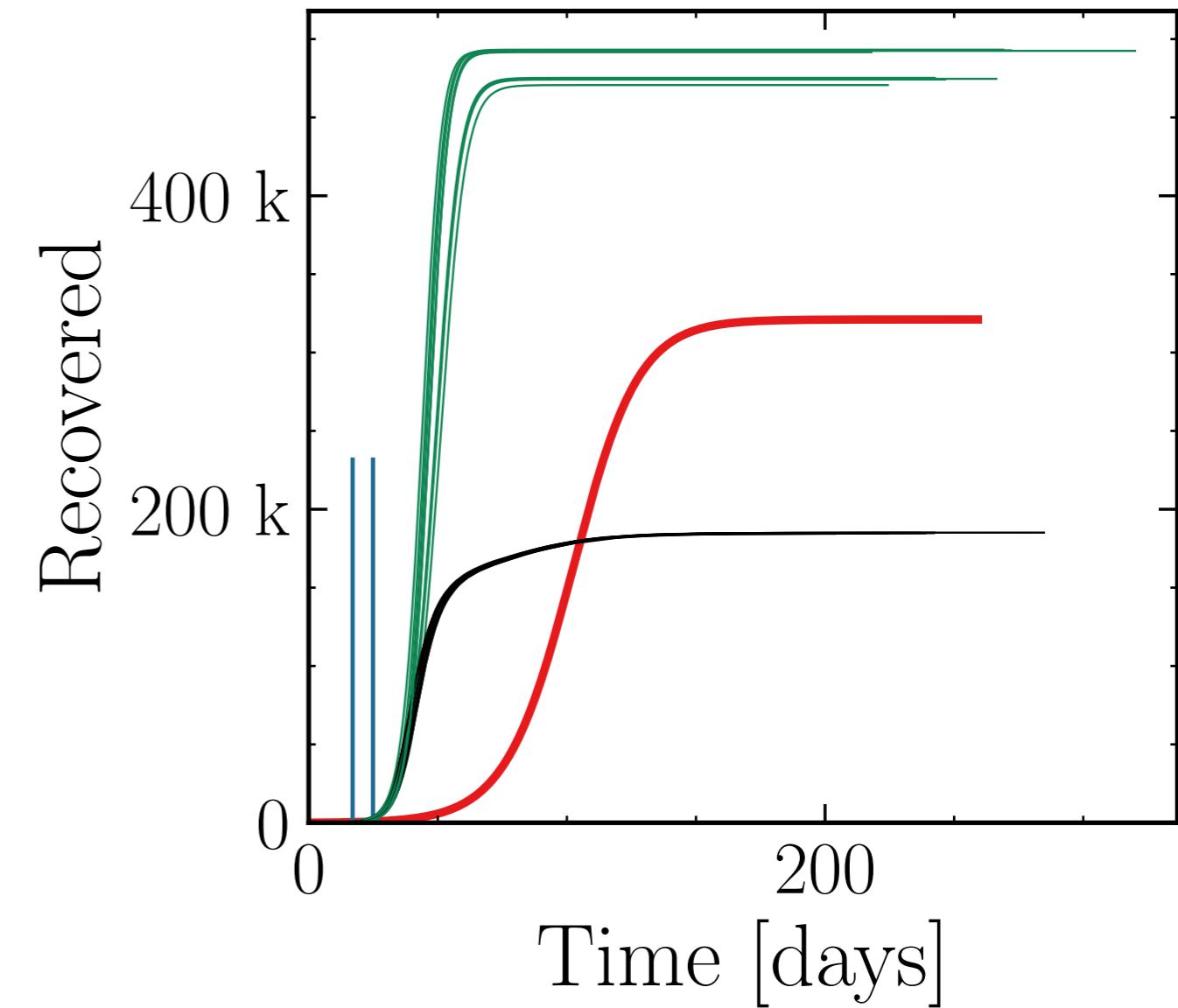
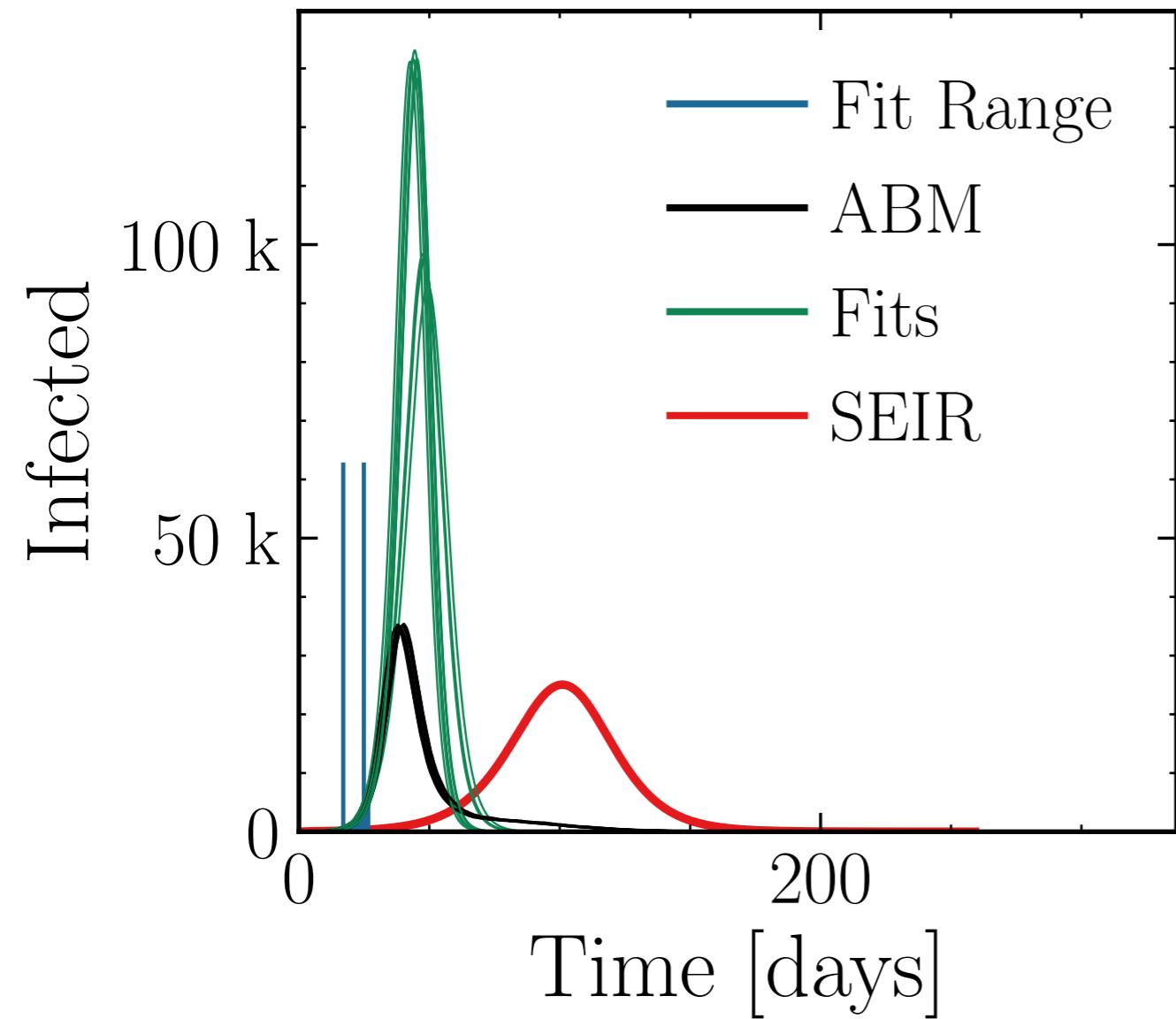
$N_{\text{tot}} = 500K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 129_{-30}^{+3} \cdot 10^3$$

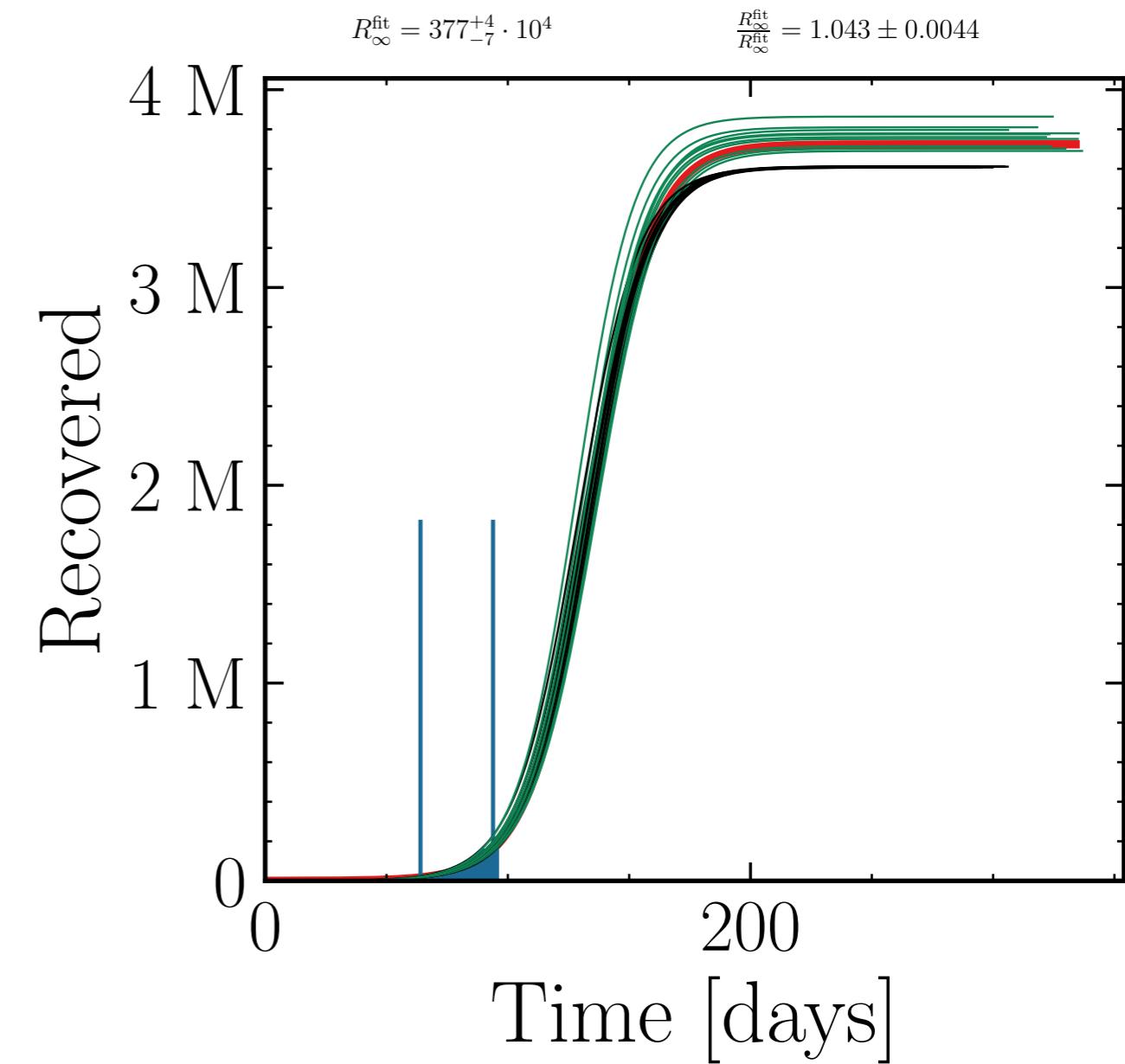
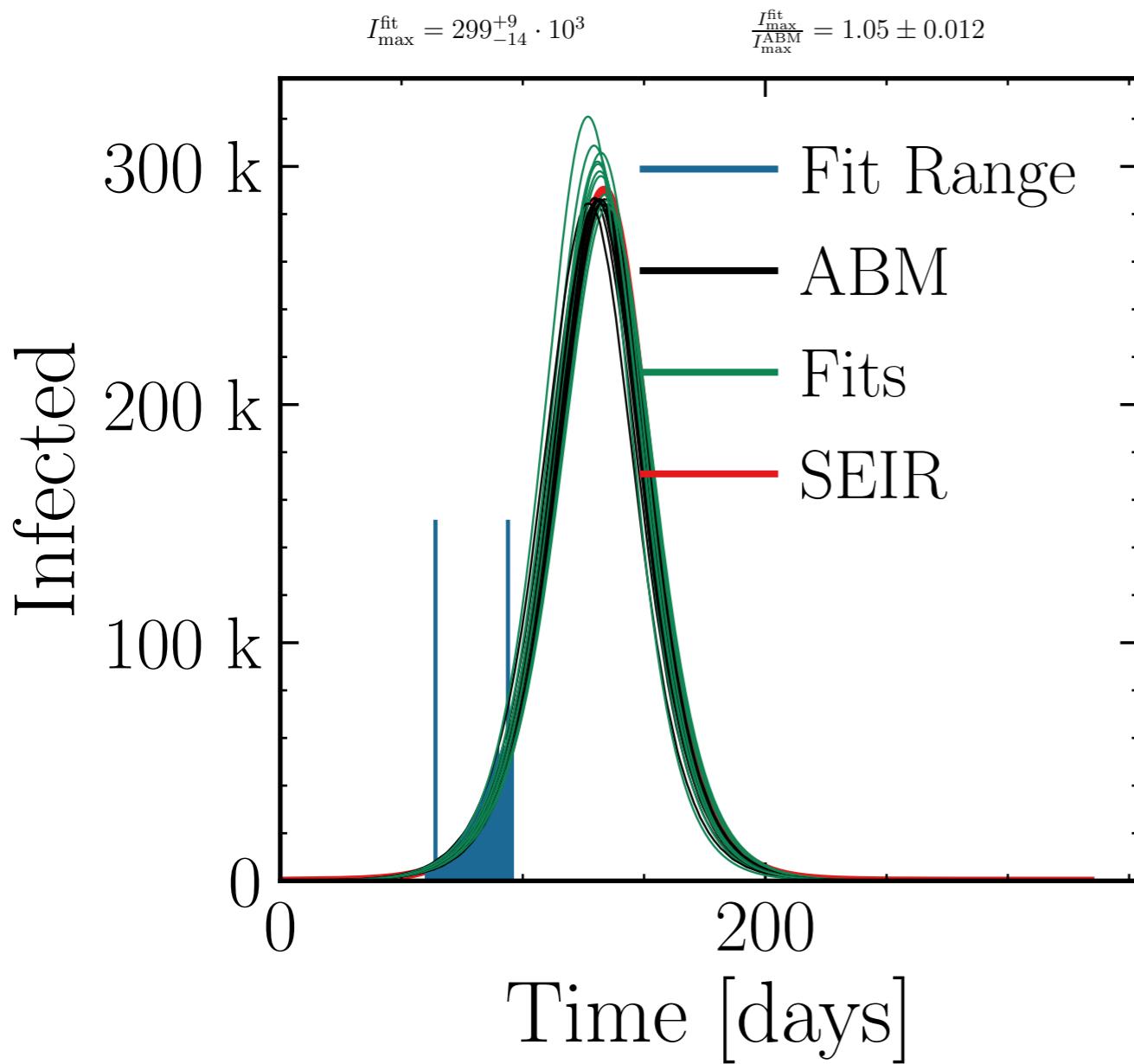
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 3.3 \pm 0.15$$

$$R_{\infty}^{\text{fit}} = 492_{-18}^{+1.1} \cdot 10^3$$

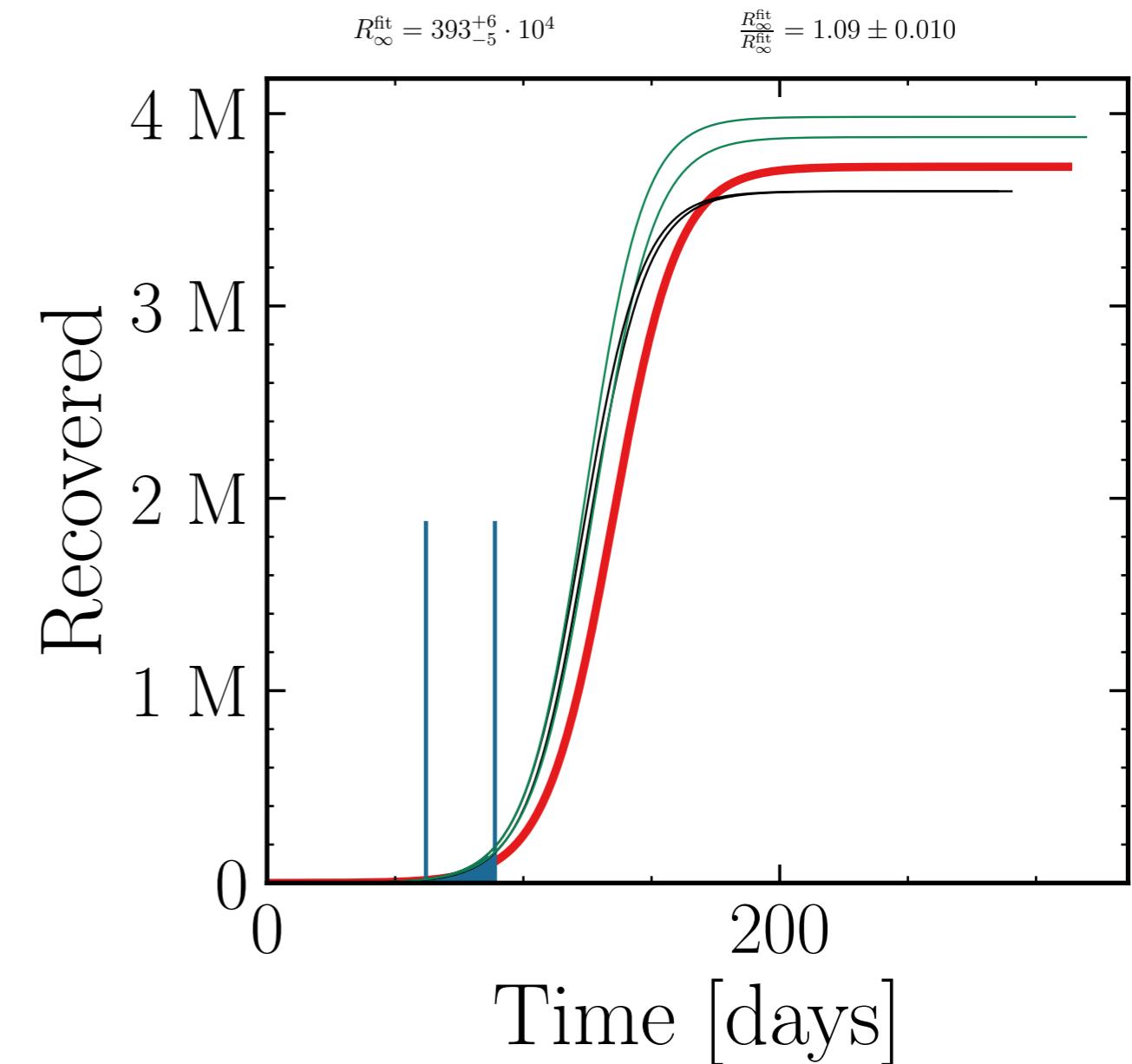
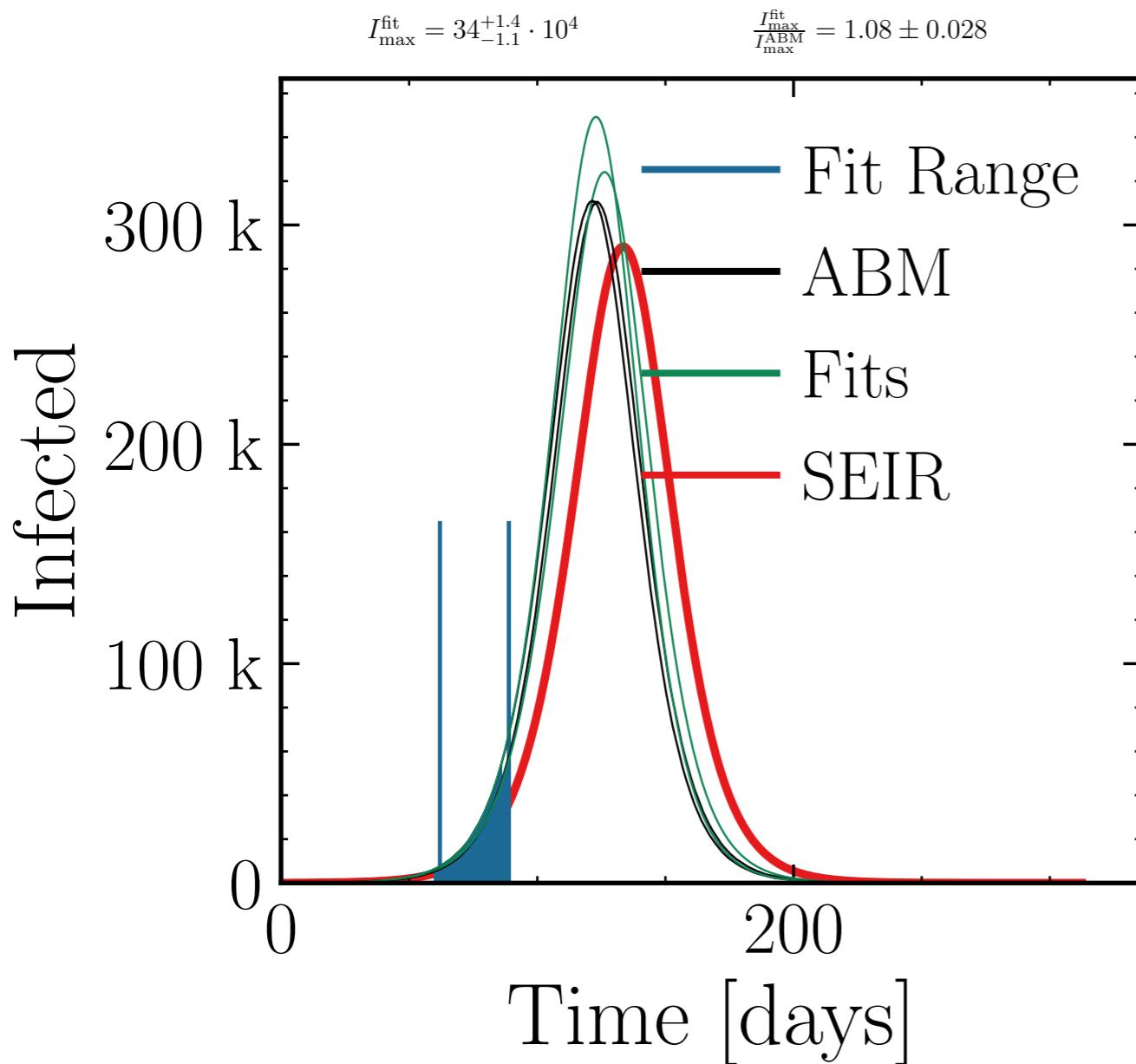
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.62 \pm 0.015$$



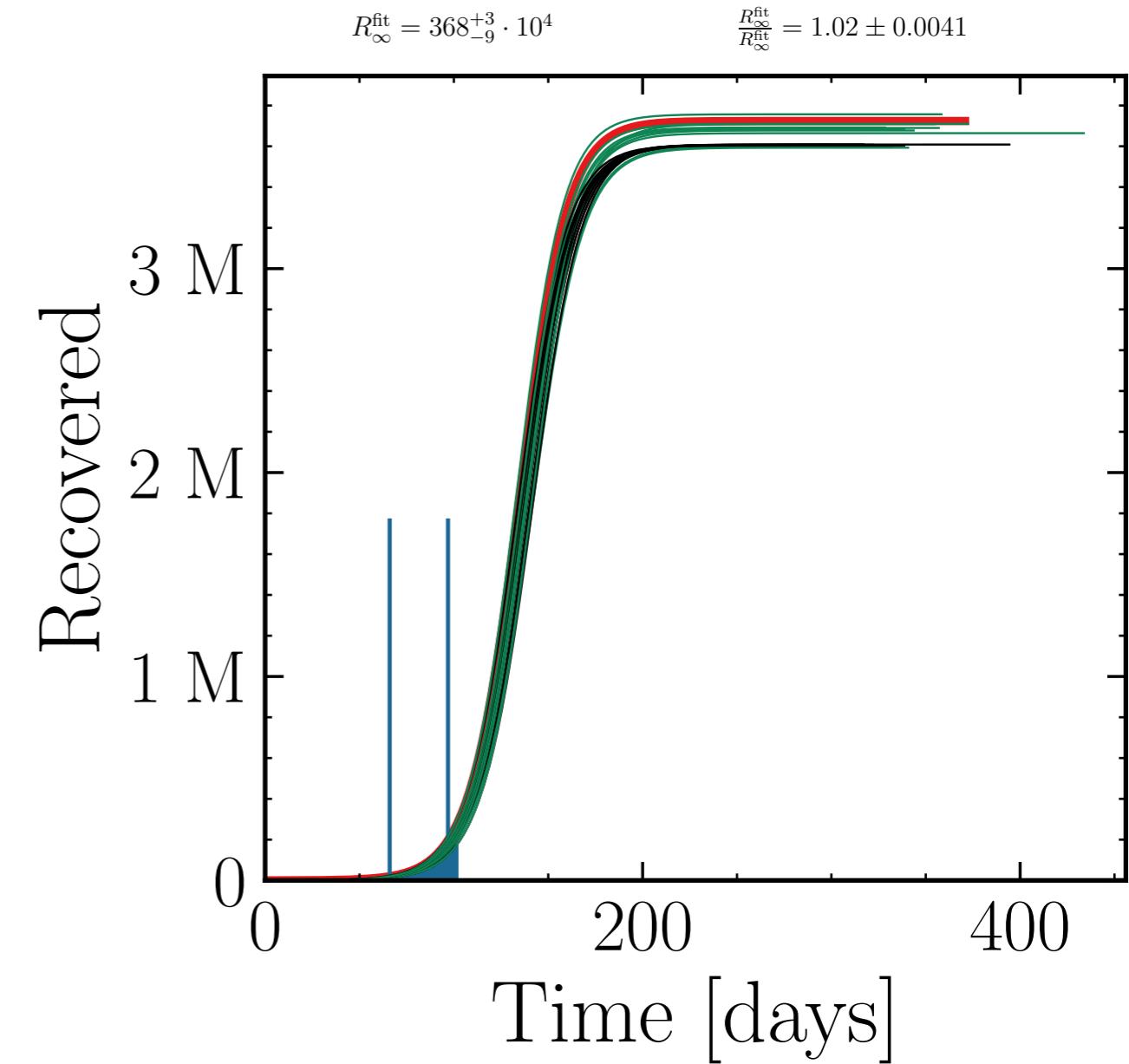
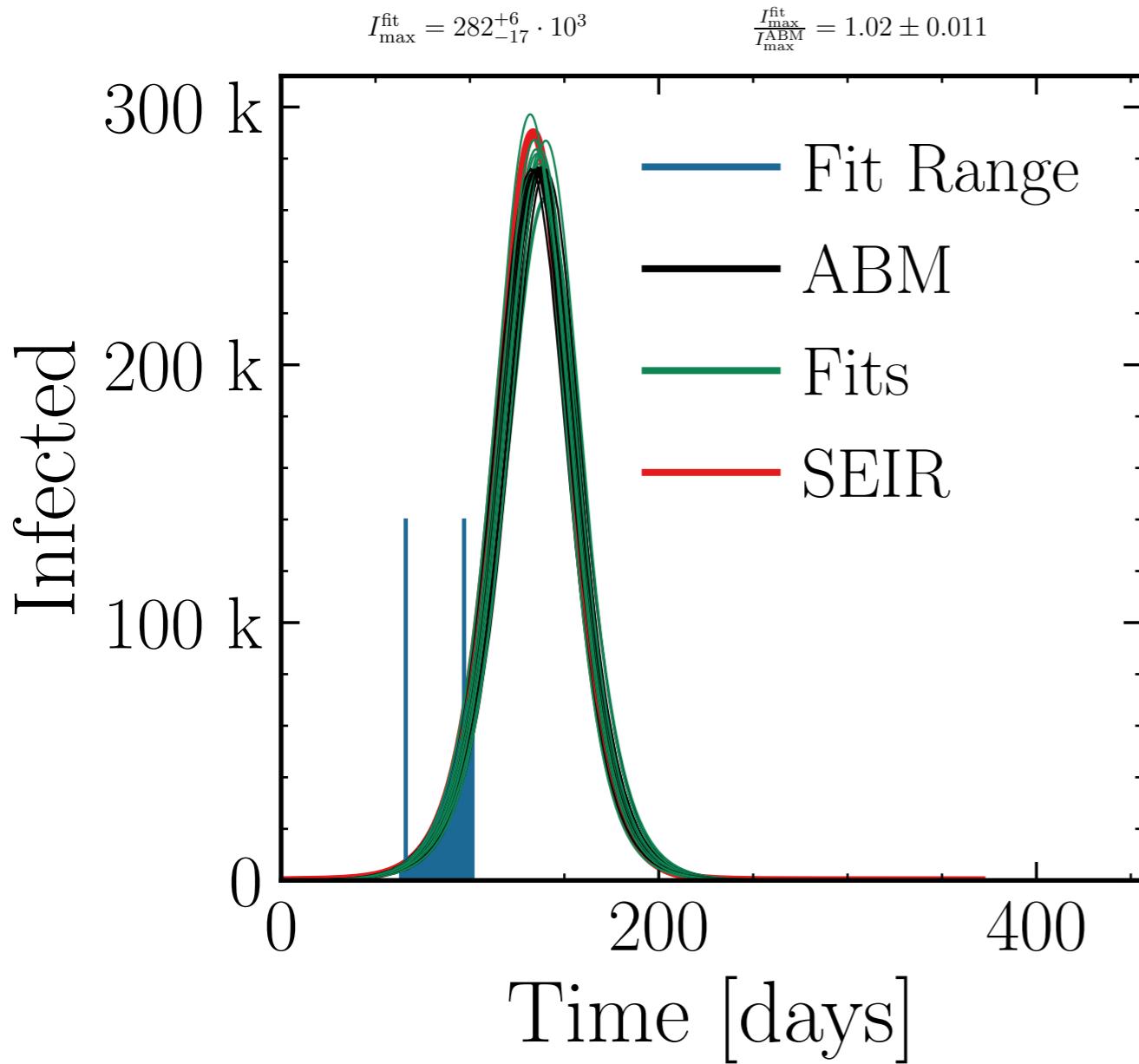
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



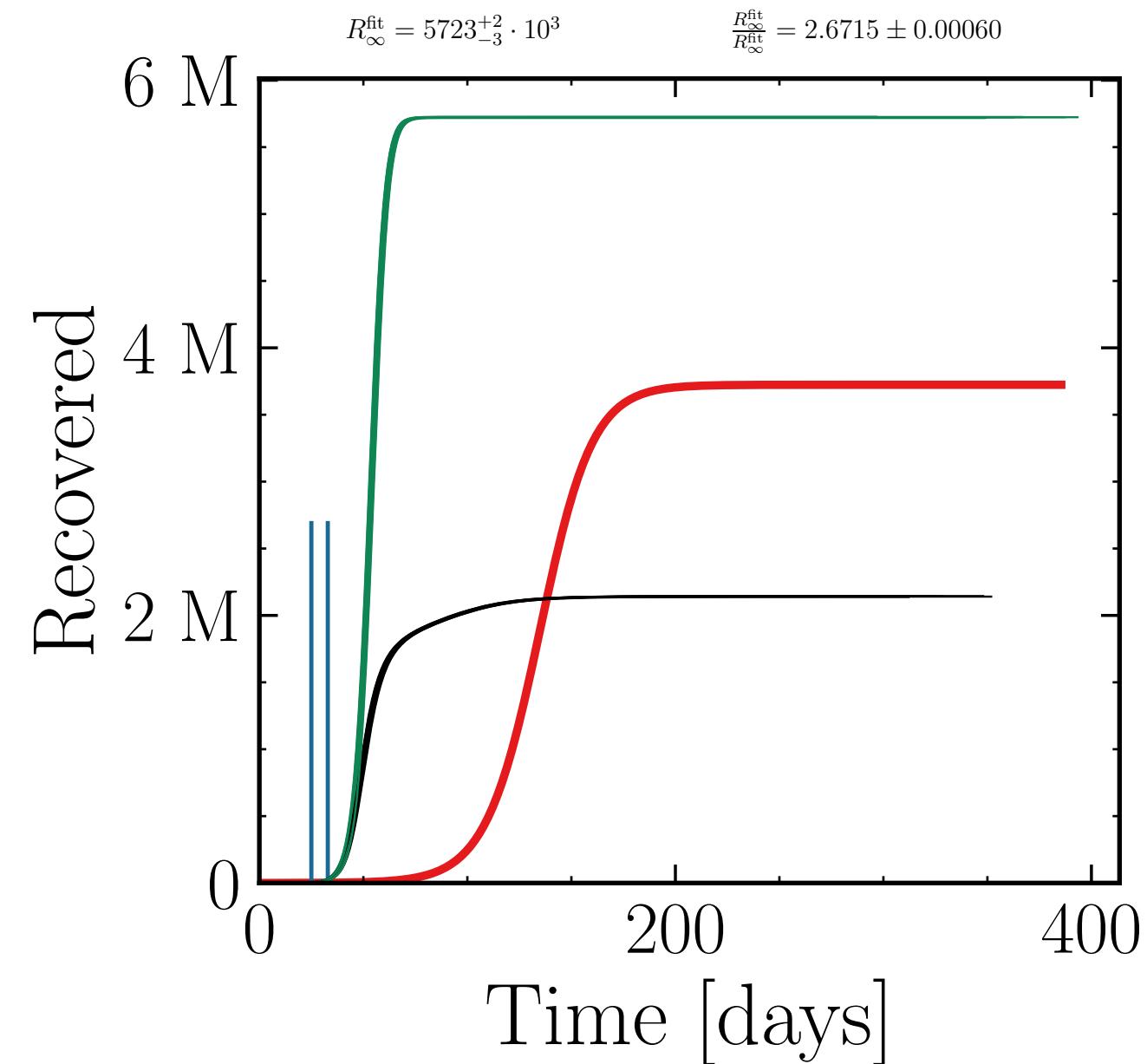
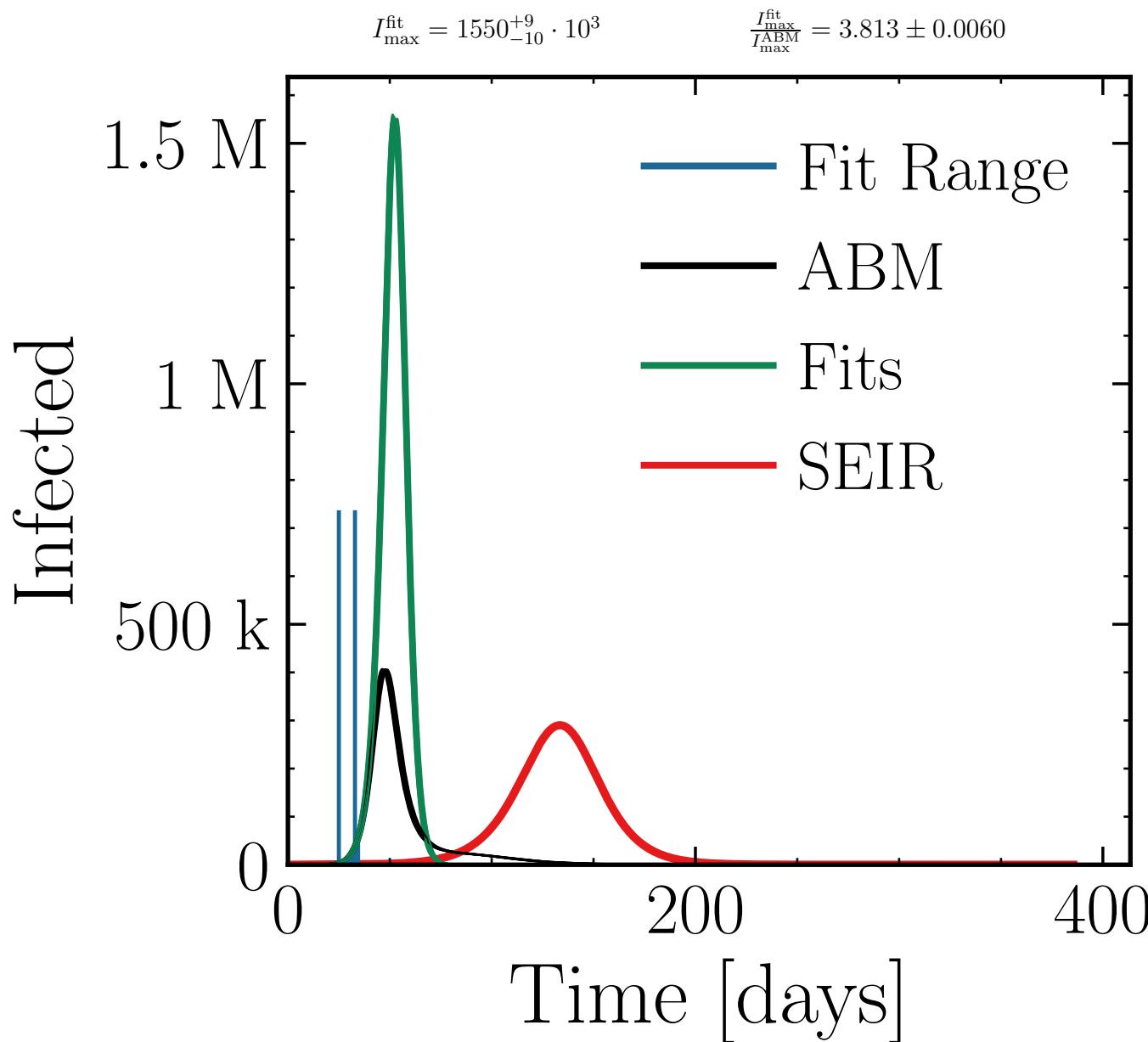
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #2



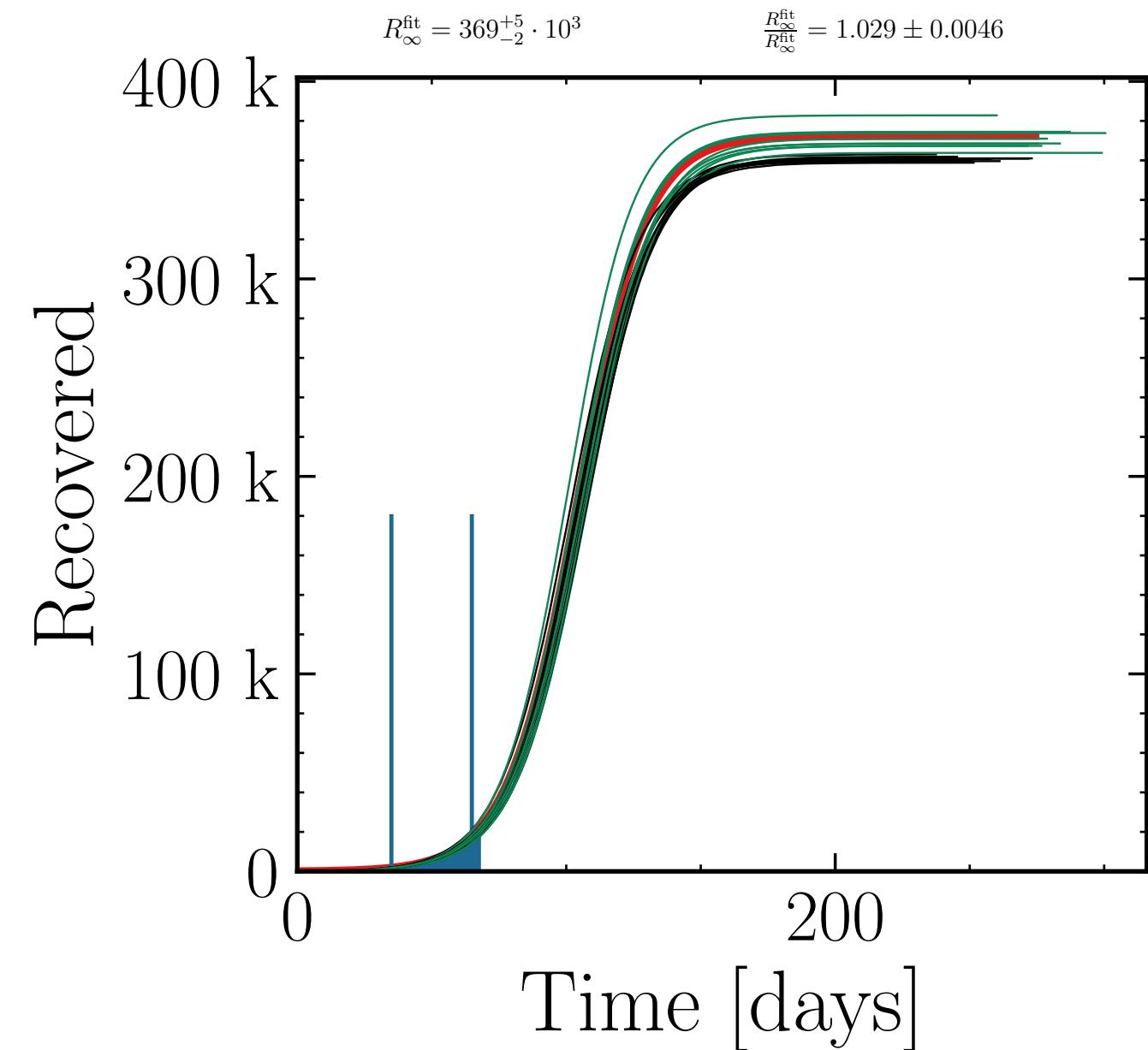
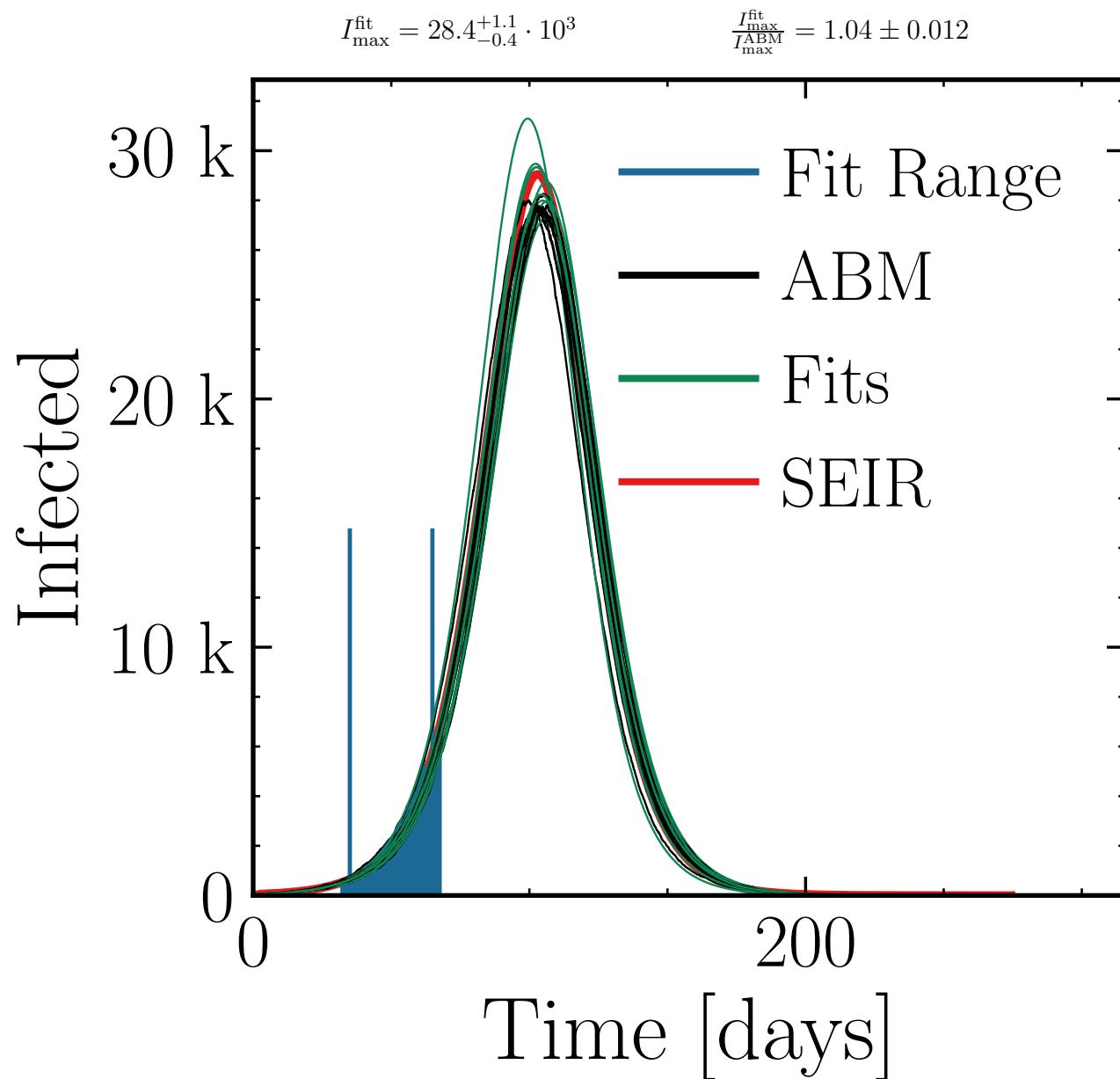
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



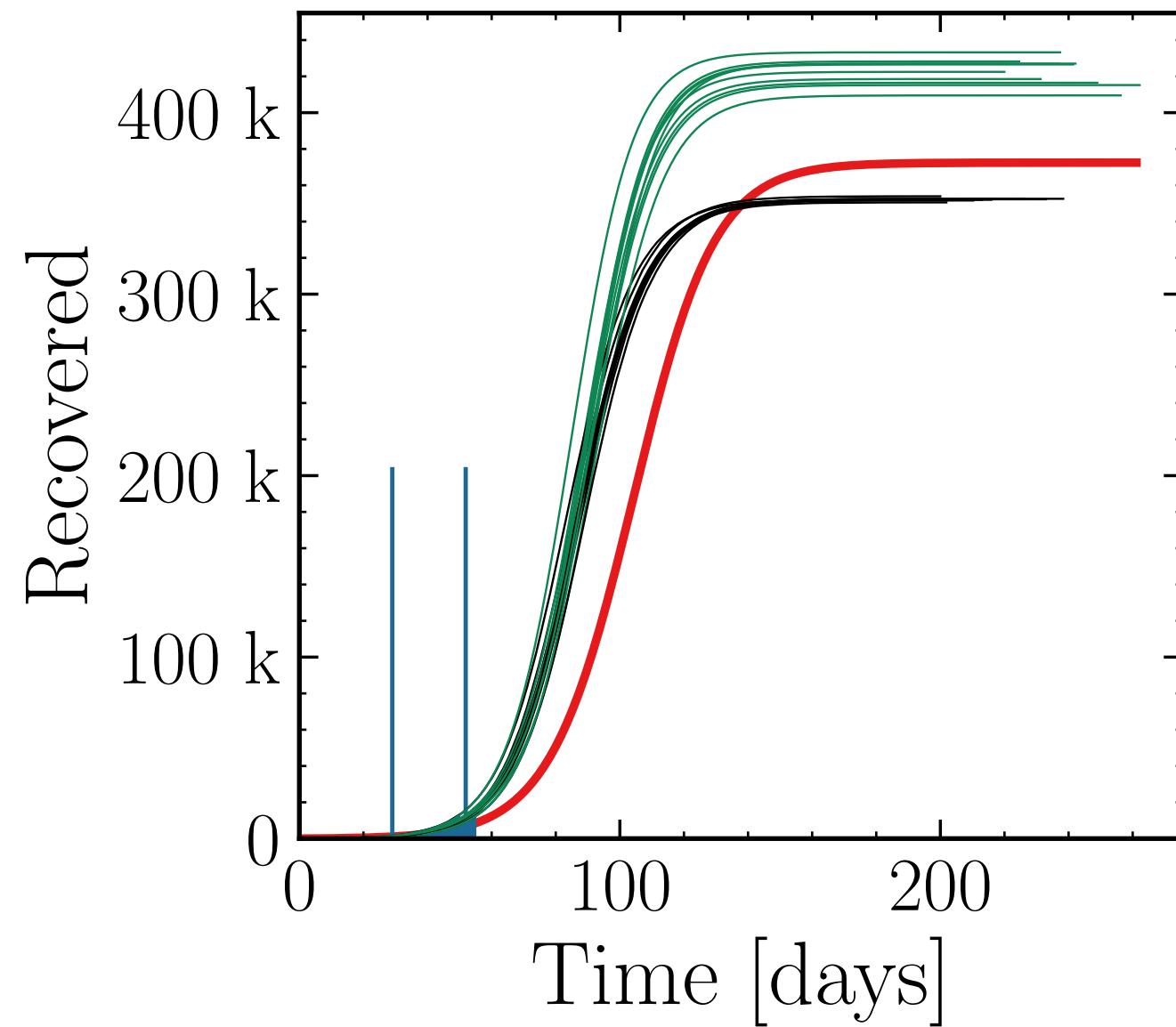
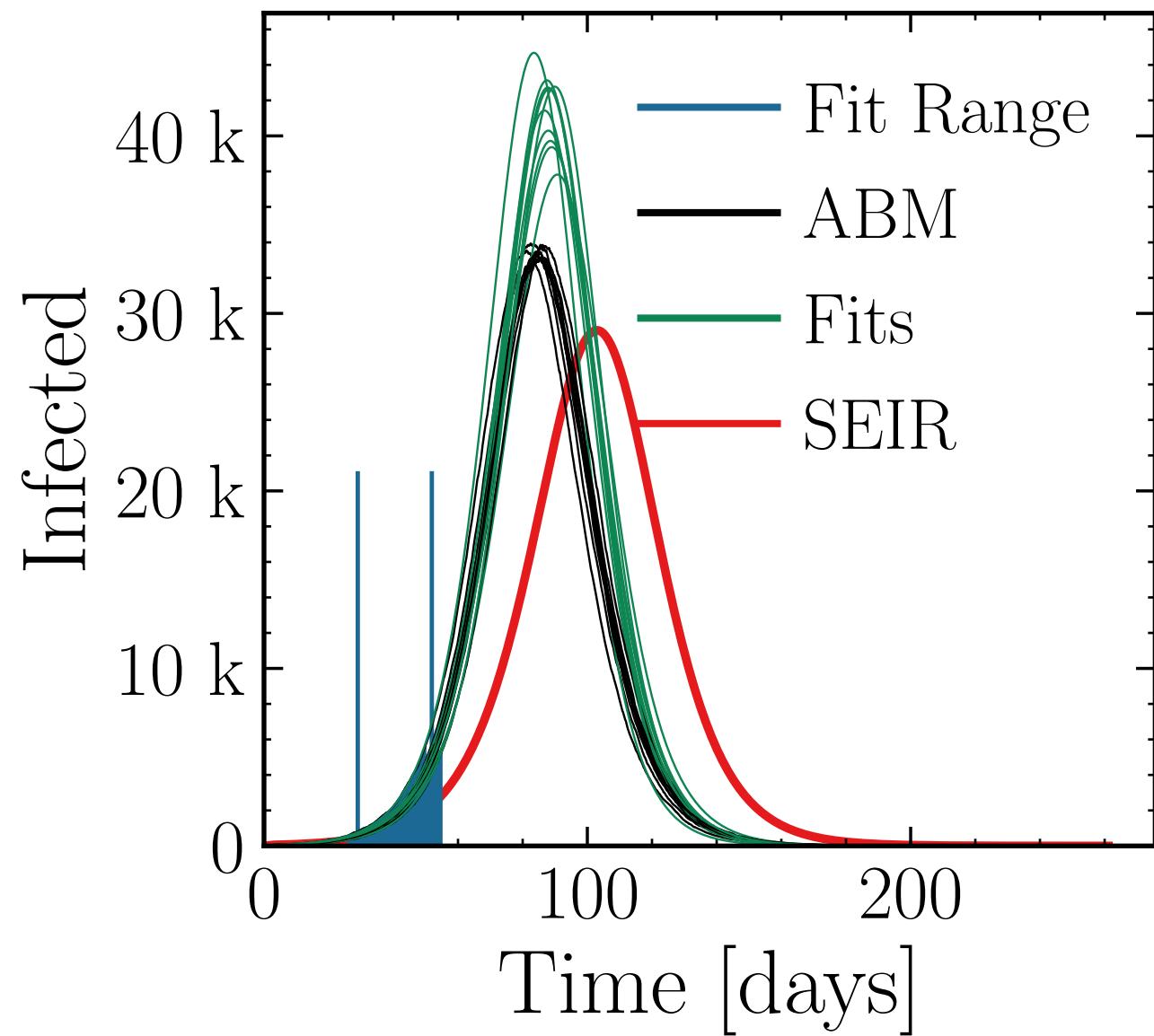
$N_{\text{tot}} = 580K$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 42^{+1.8}_{-2} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.24 \pm 0.018$$

$$R_{\infty}^{\text{fit}} = 423^{+6}_{-8} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.199 \pm 0.0065$$



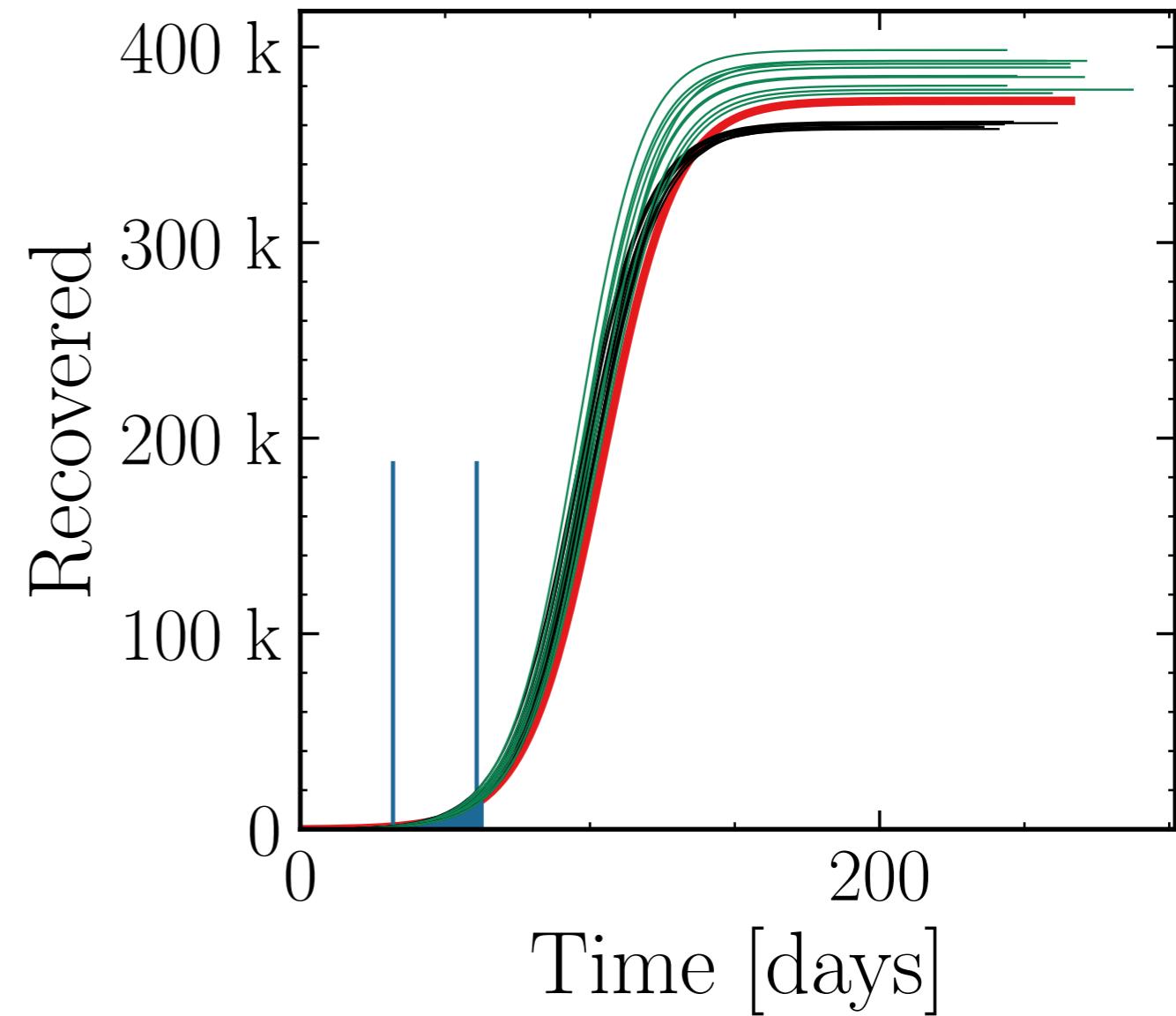
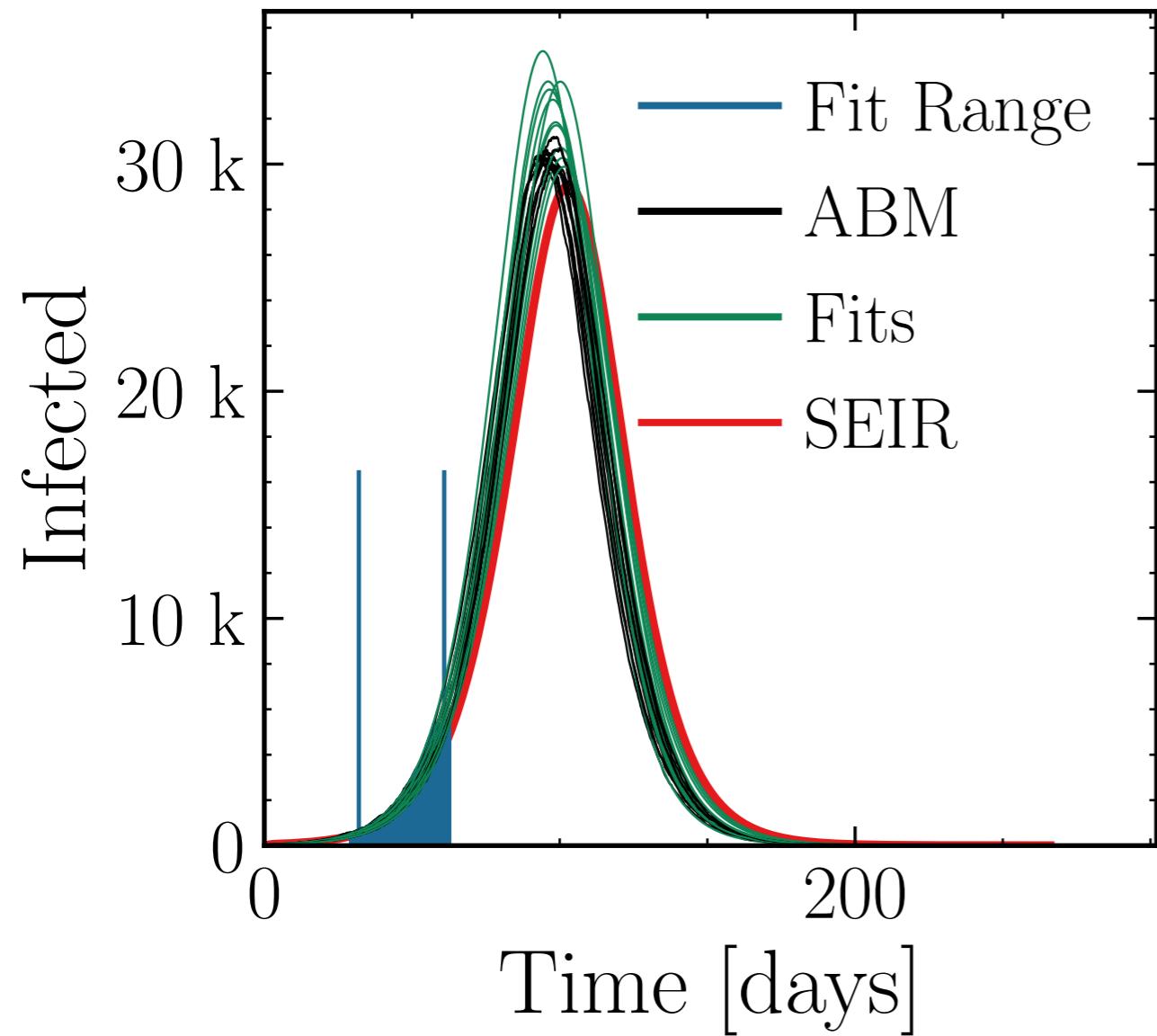
$N_{\text{tot}} = 580K$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 32^{+1.7}_{-1.7} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.06 \pm 0.017$$

$$R_{\infty}^{\text{fit}} = 386^{+7}_{-8} \cdot 10^3$$

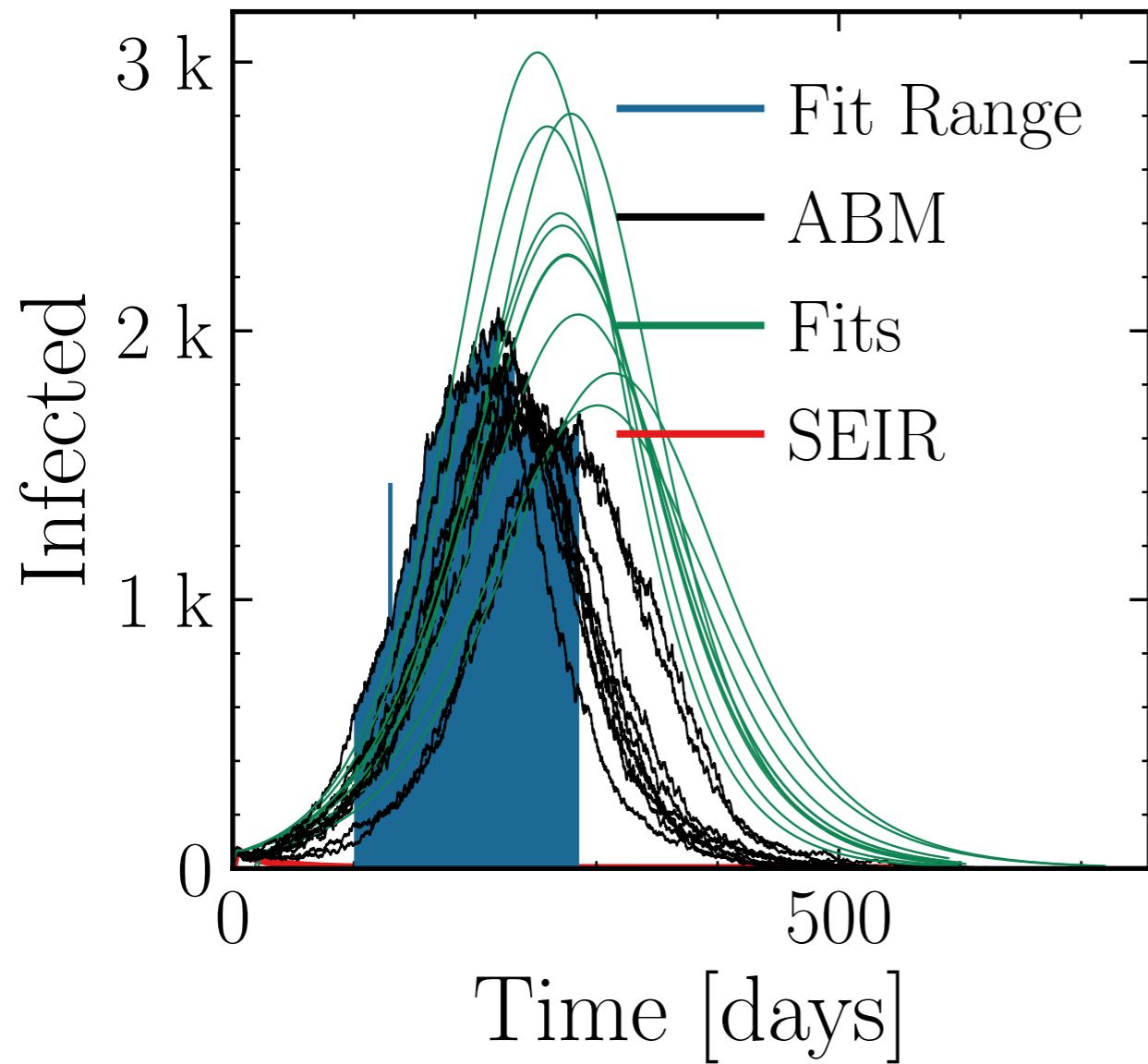
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.076 \pm 0.0064$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

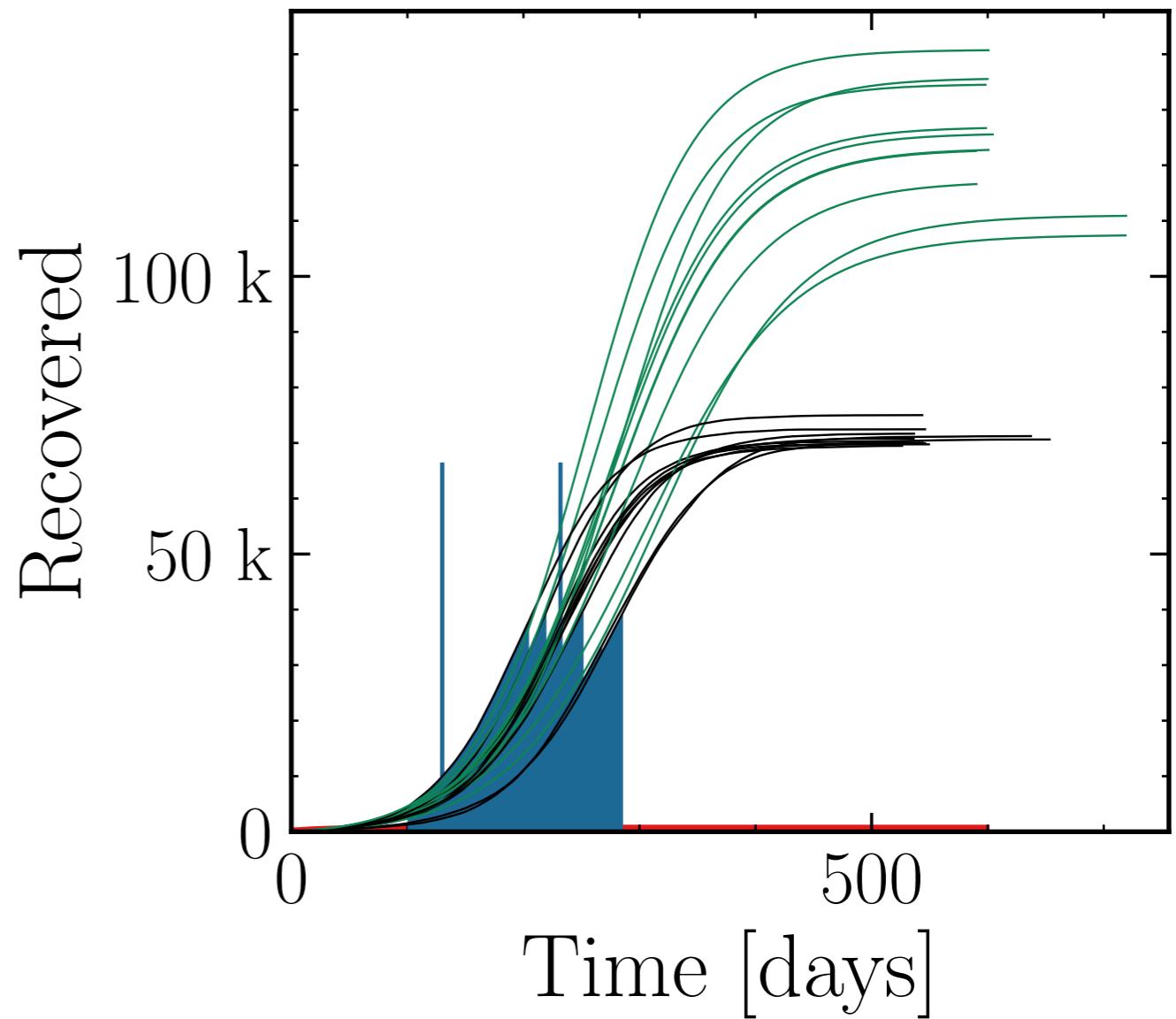
$$I_{\max}^{\text{fit}} = 23^{+5}_{-5} \cdot 10^2$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.29 \pm 0.051$$



$$R_{\infty}^{\text{fit}} = 12^{+1.1}_{-1.3} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.75 \pm 0.043$$



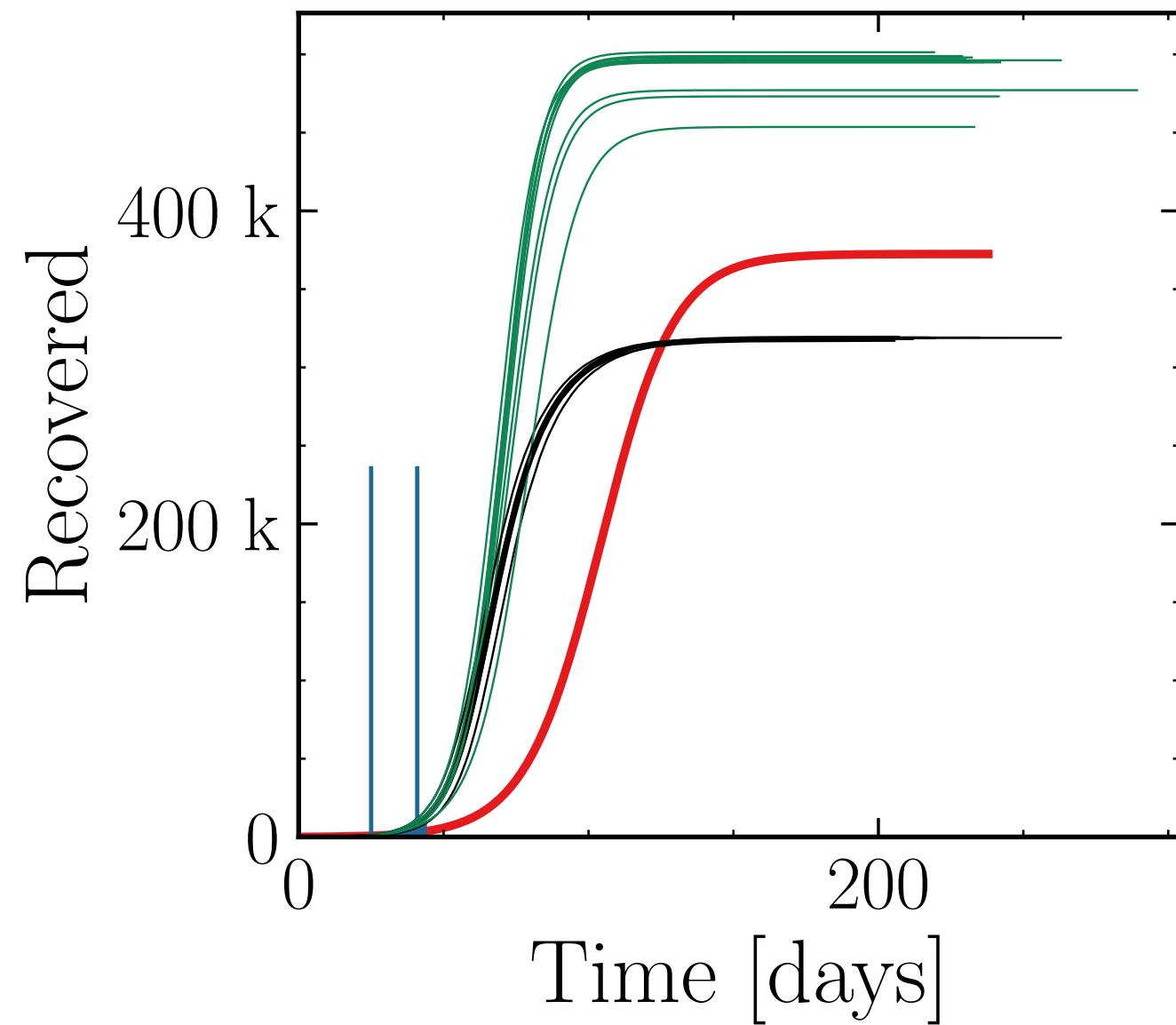
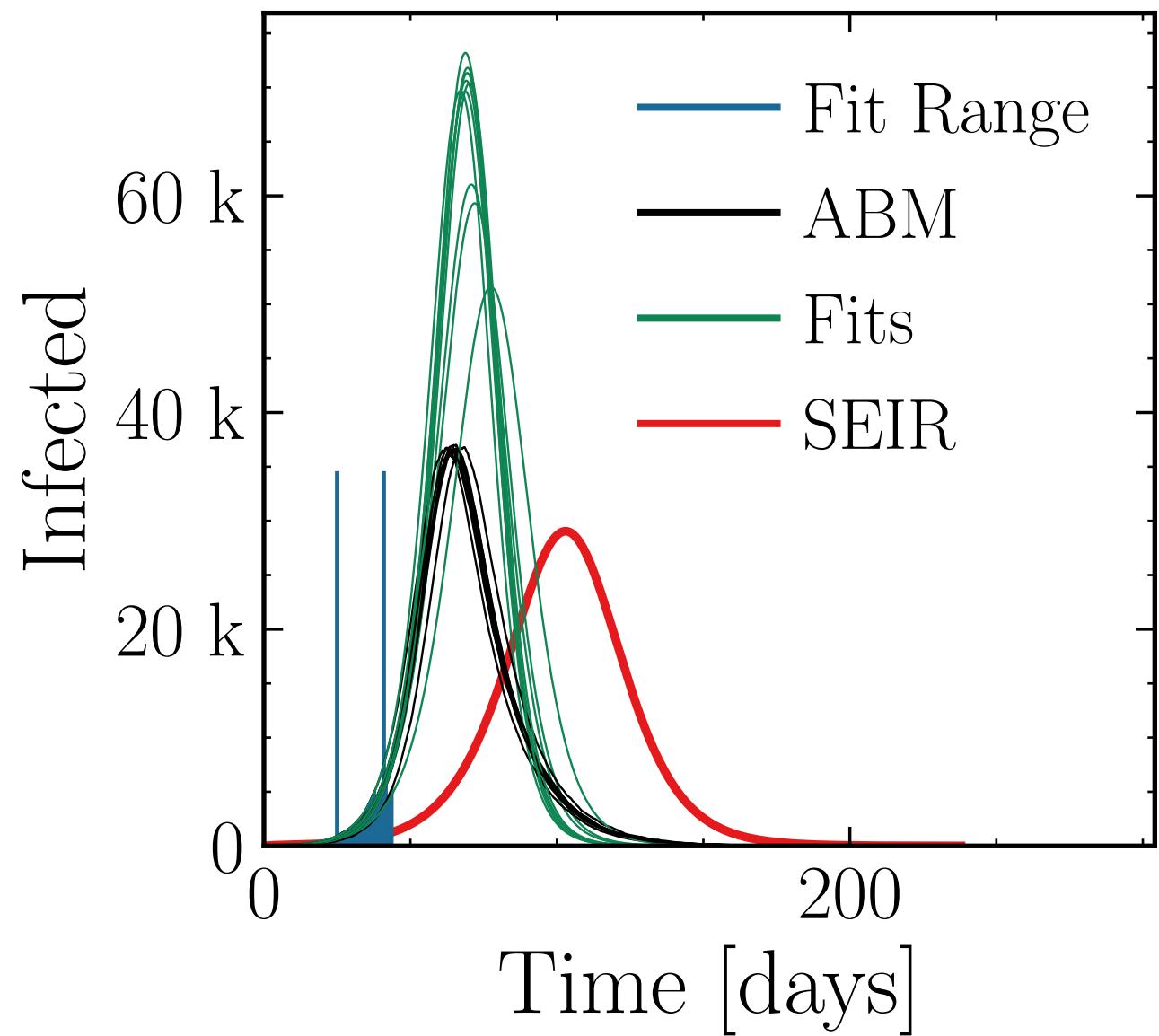
$N_{\text{tot}} = 580K$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 70_{-11}^{+2} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.82 \pm 0.057$$

$$R_{\infty}^{\text{fit}} = 495_{-20}^{+4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.53 \pm 0.014$$



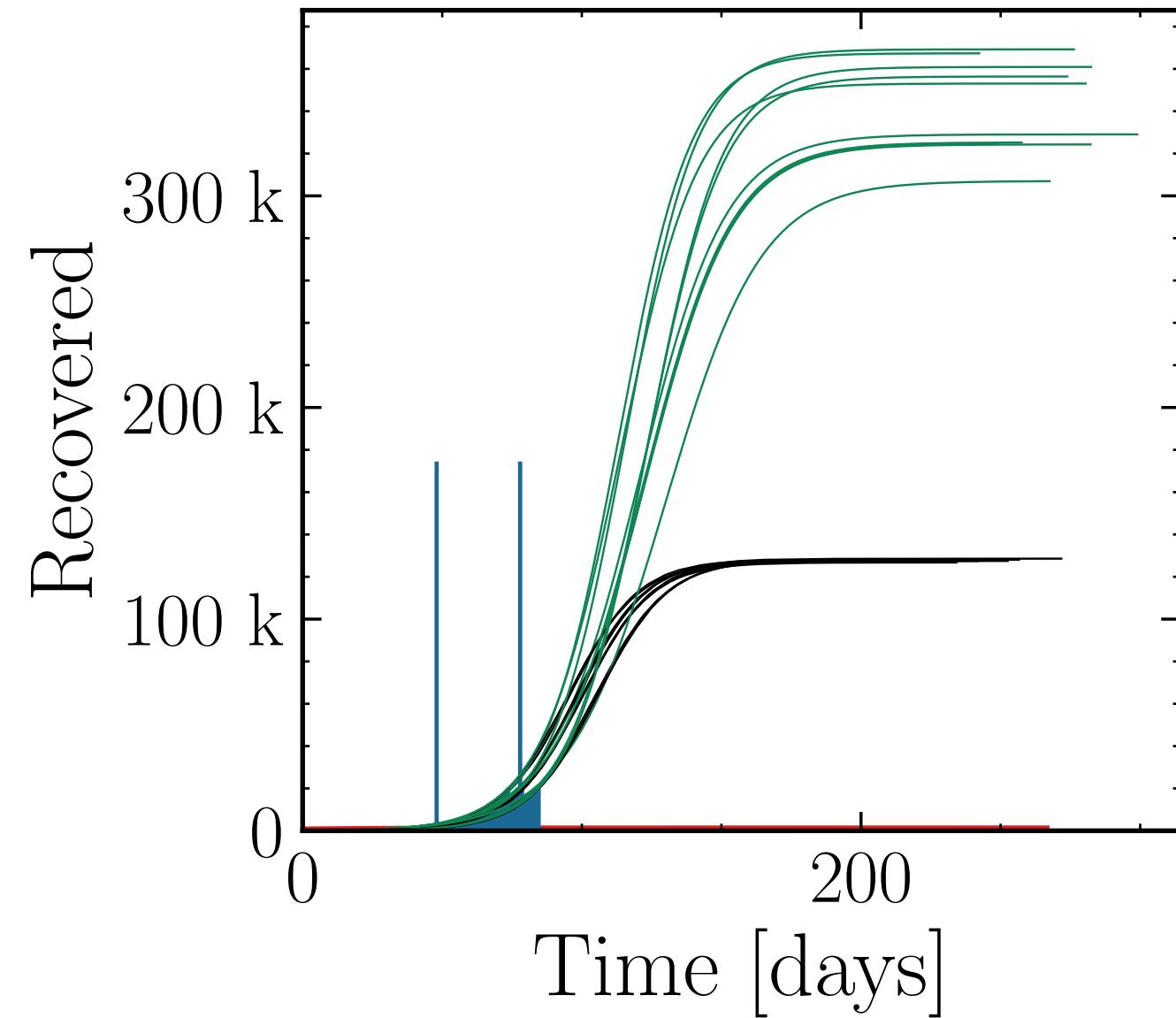
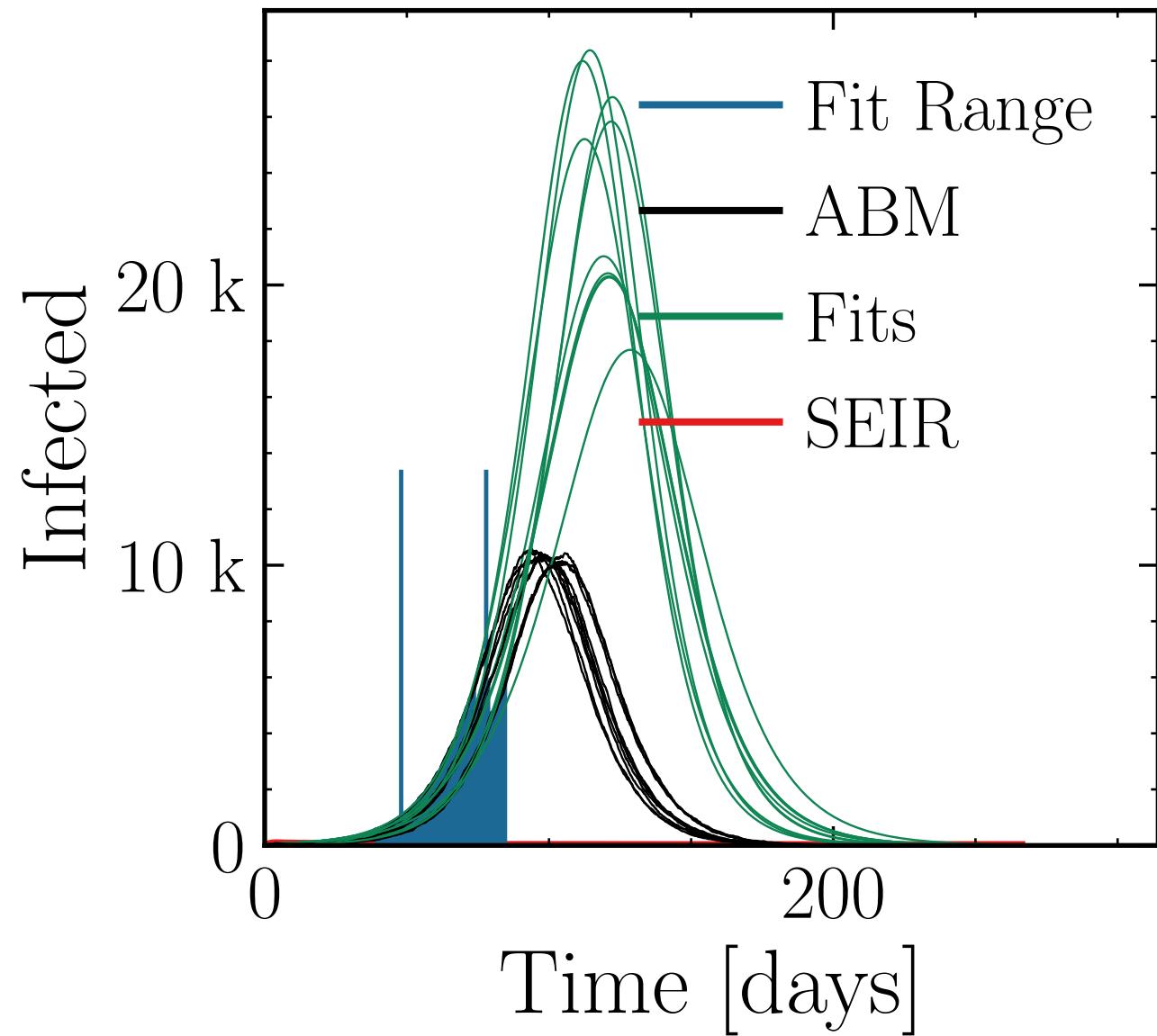
$N_{\text{tot}} = 580K$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 23^{+5}_{-3} \cdot 10^3$$

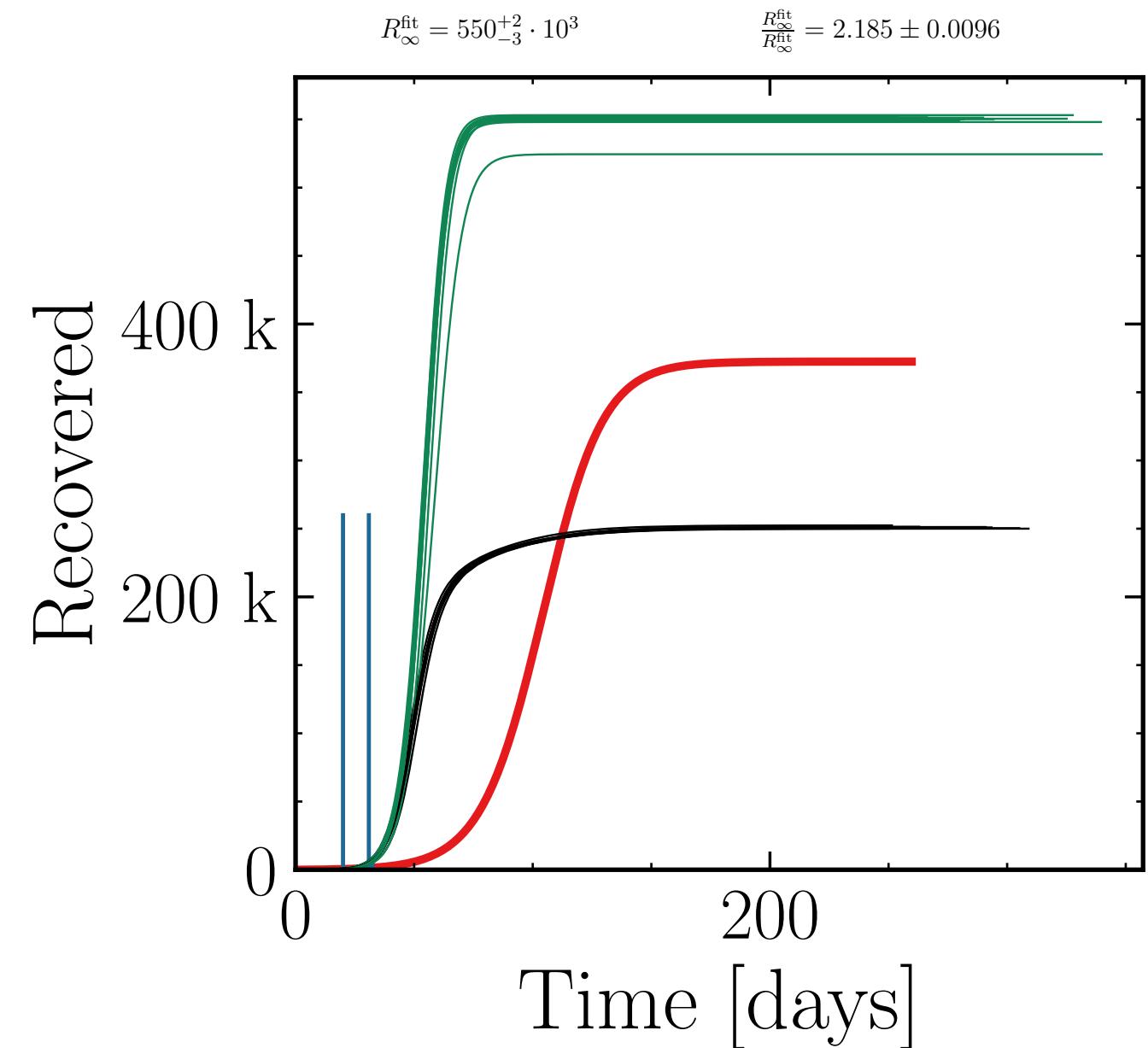
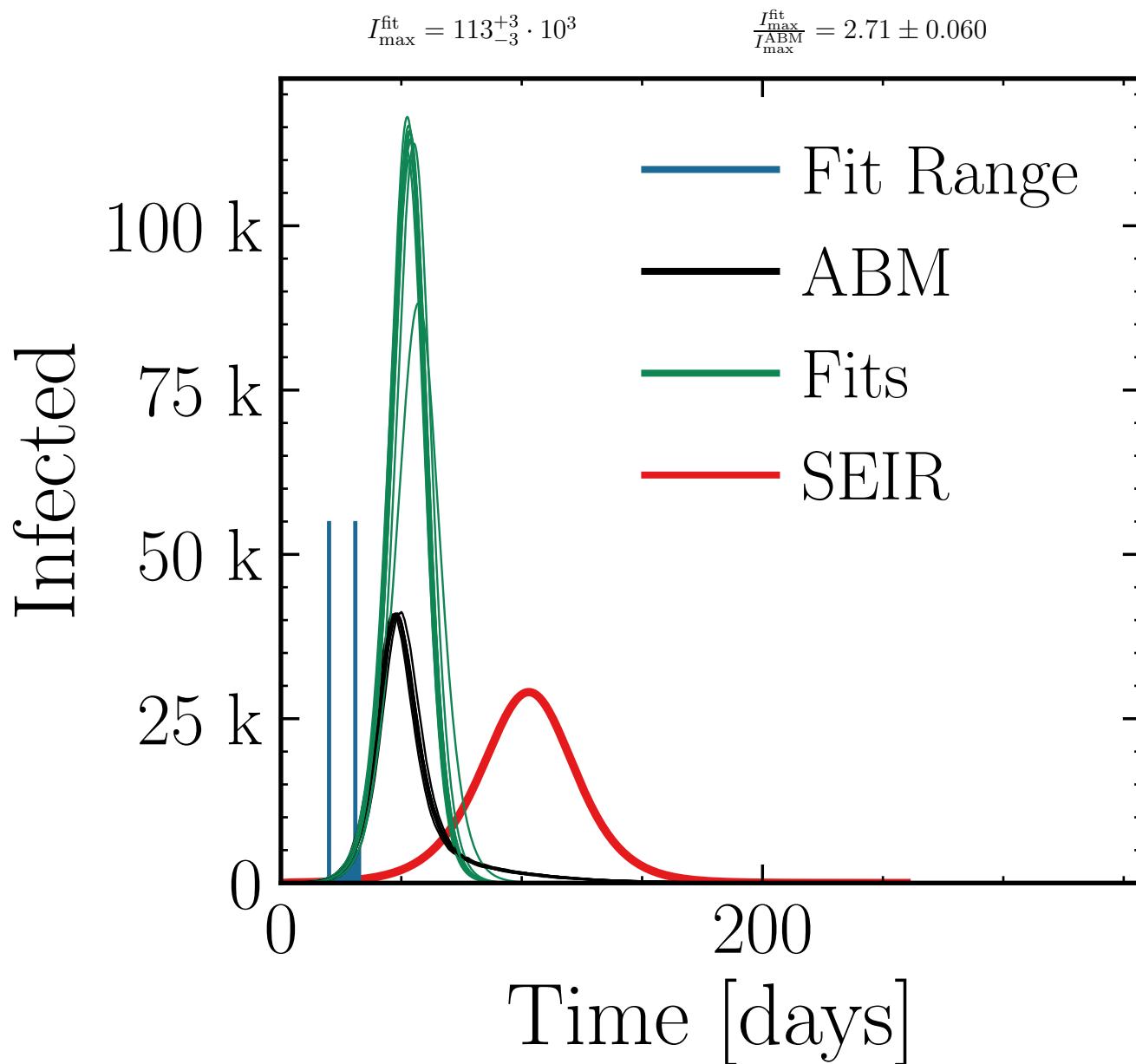
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.3 \pm 0.11$$

$$R_{\infty}^{\text{fit}} = 34^{+3}_{-1.6} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.68 \pm 0.051$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



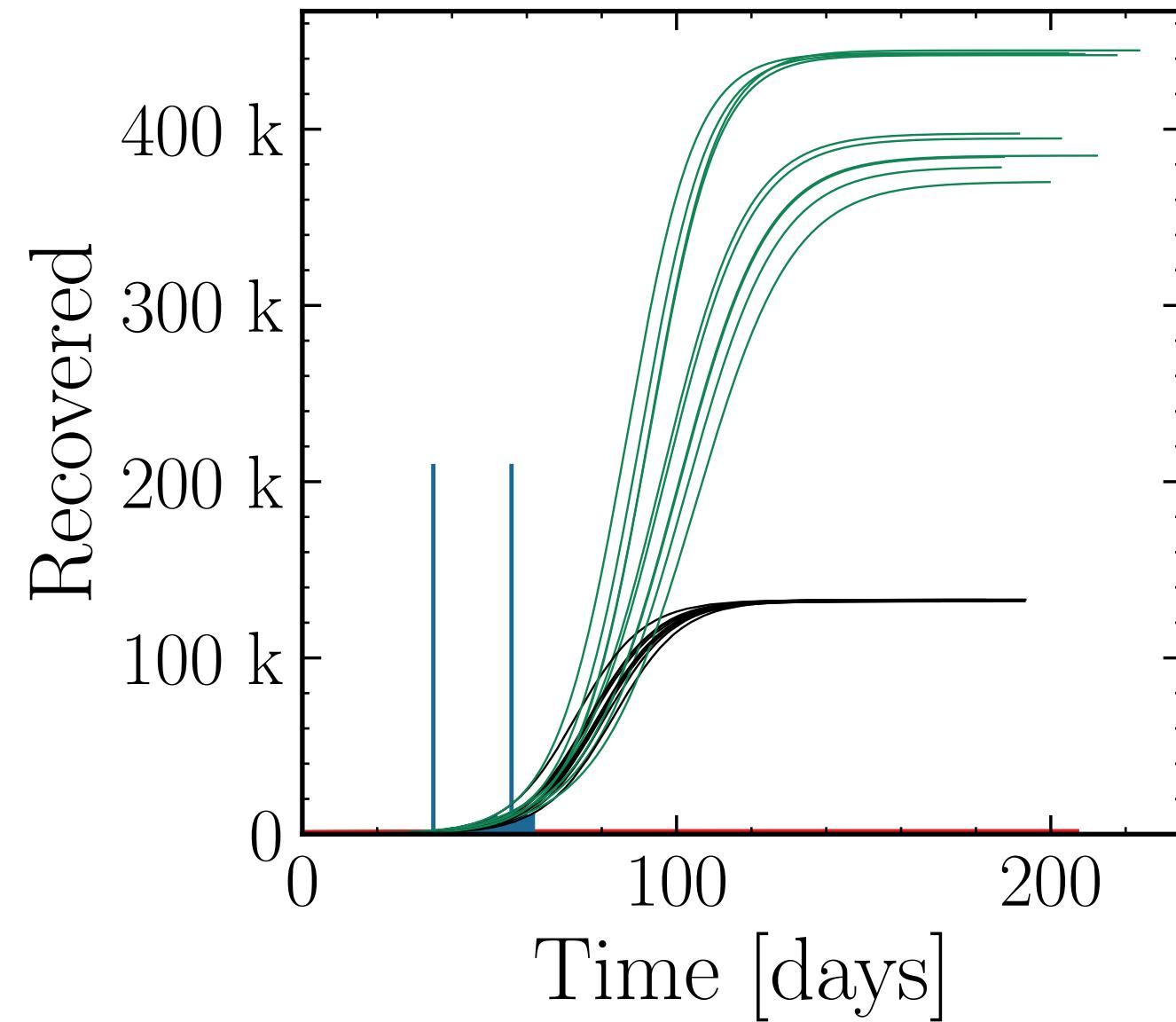
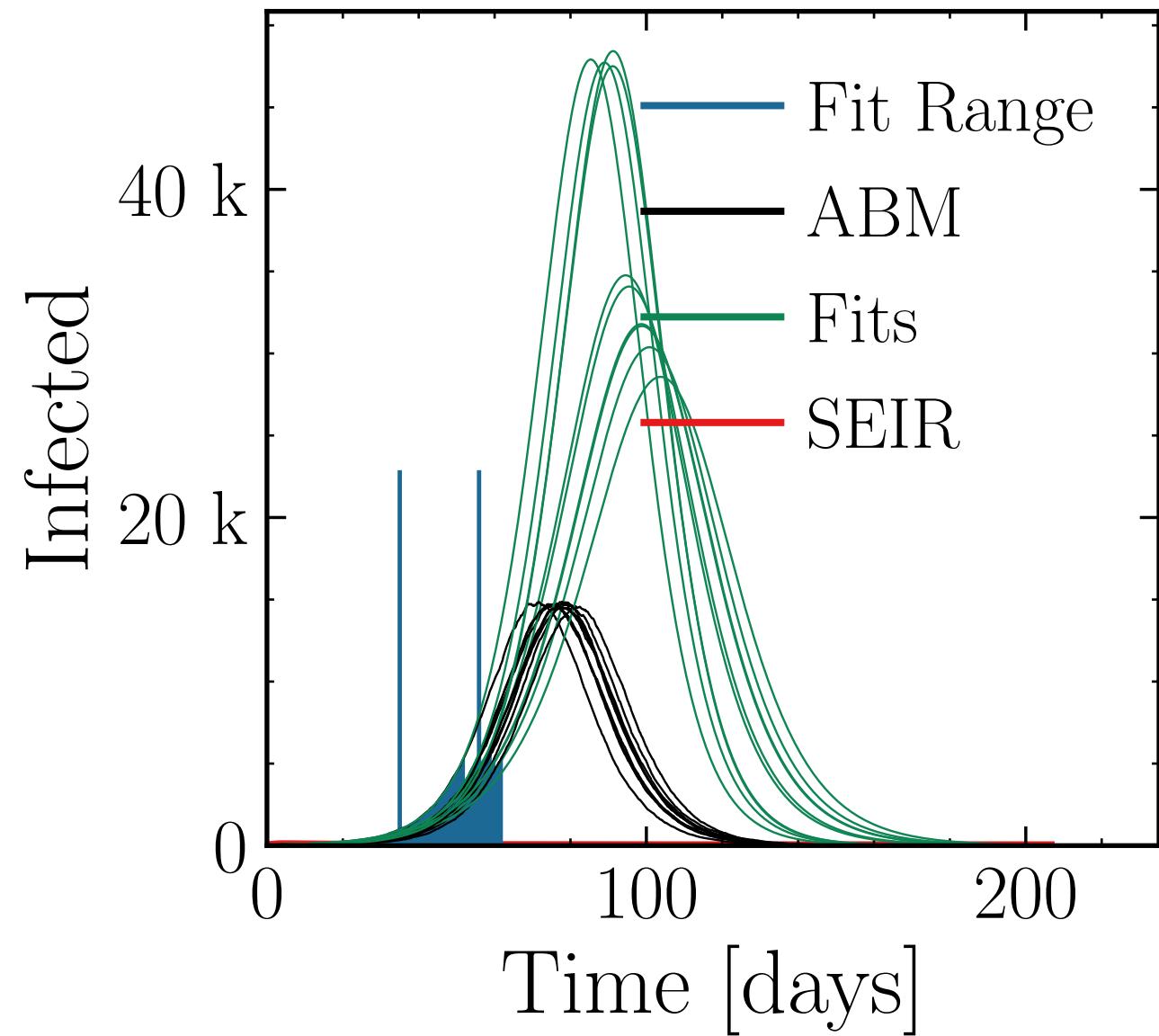
$N_{\text{tot}} = 580K$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 3.4^{+1.4}_{-0.4} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.6 \pm 0.17$$

$$R_{\infty}^{\text{fit}} = 40^{+5}_{-1.7} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.08 \pm 0.068$$



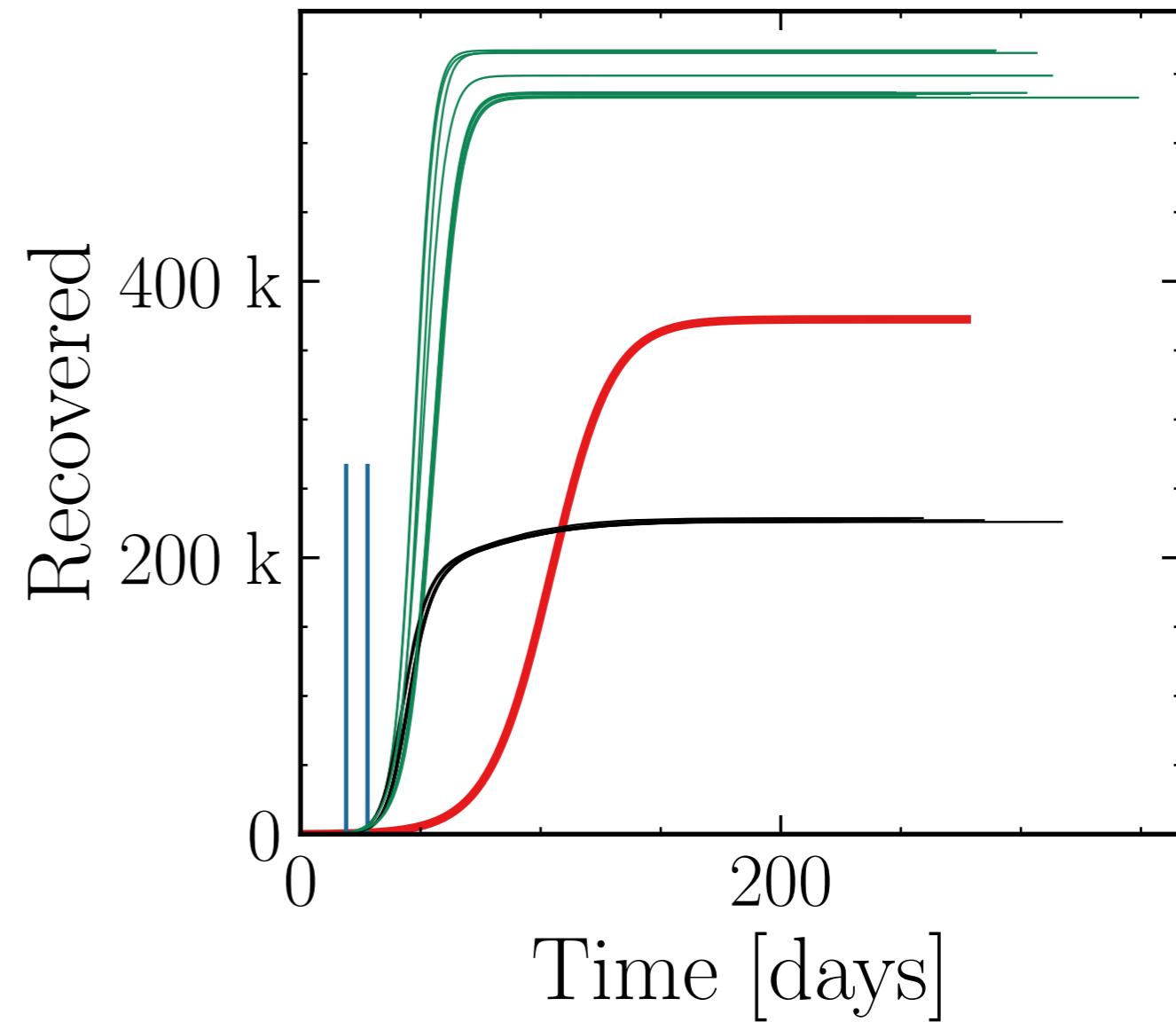
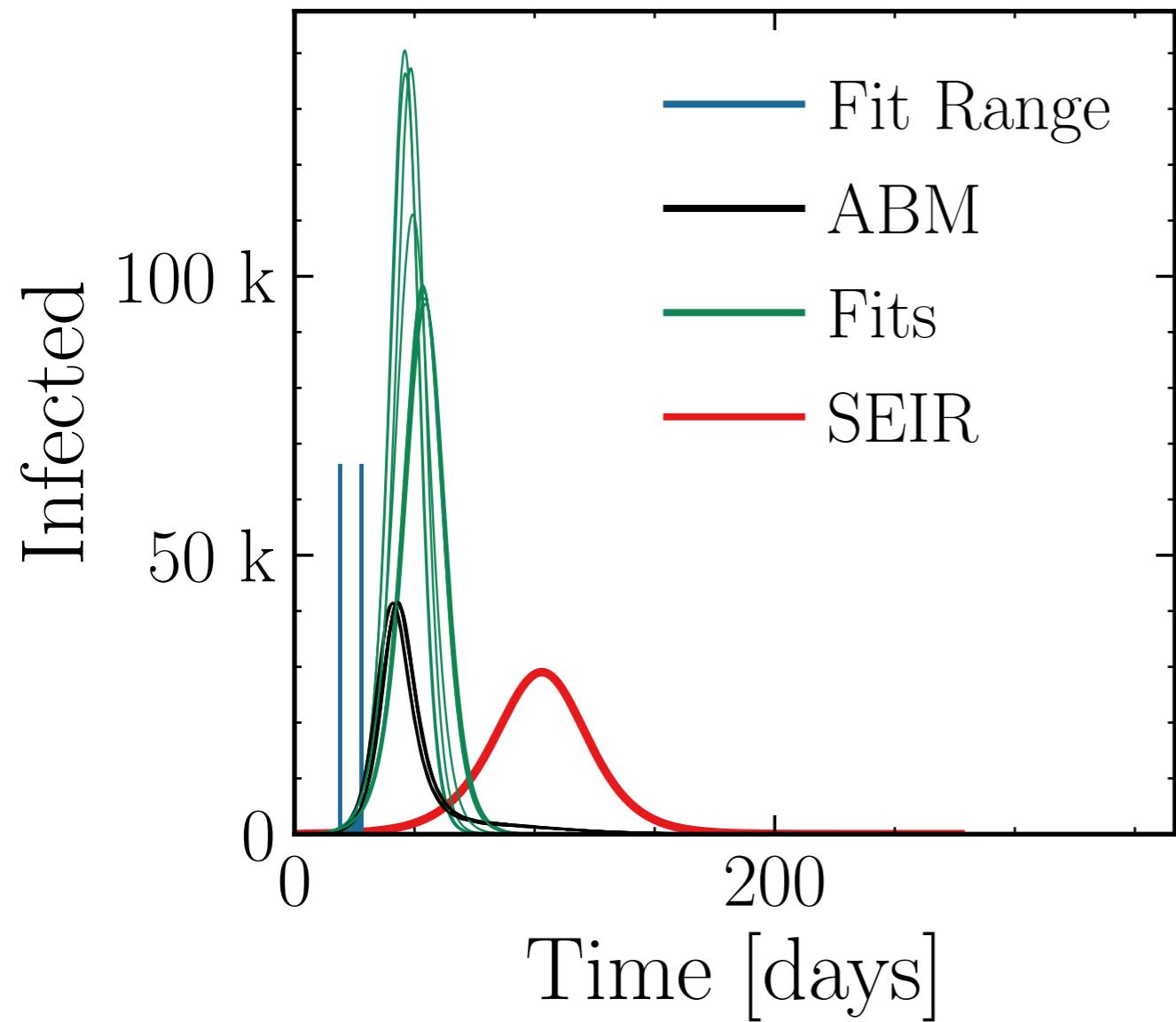
$N_{\text{tot}} = 580K$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 9.8^{+4}_{-0.2} \cdot 10^4$$

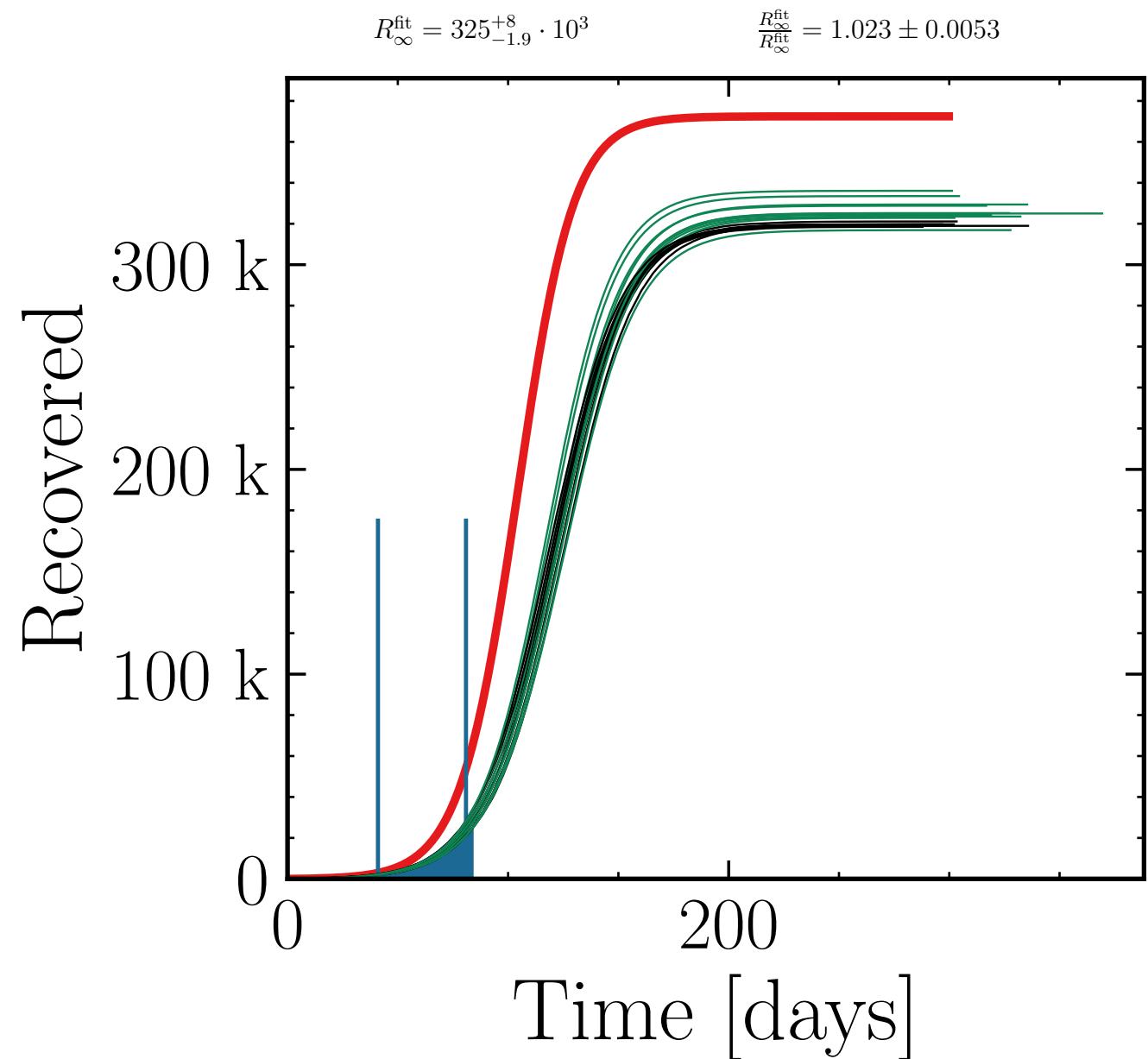
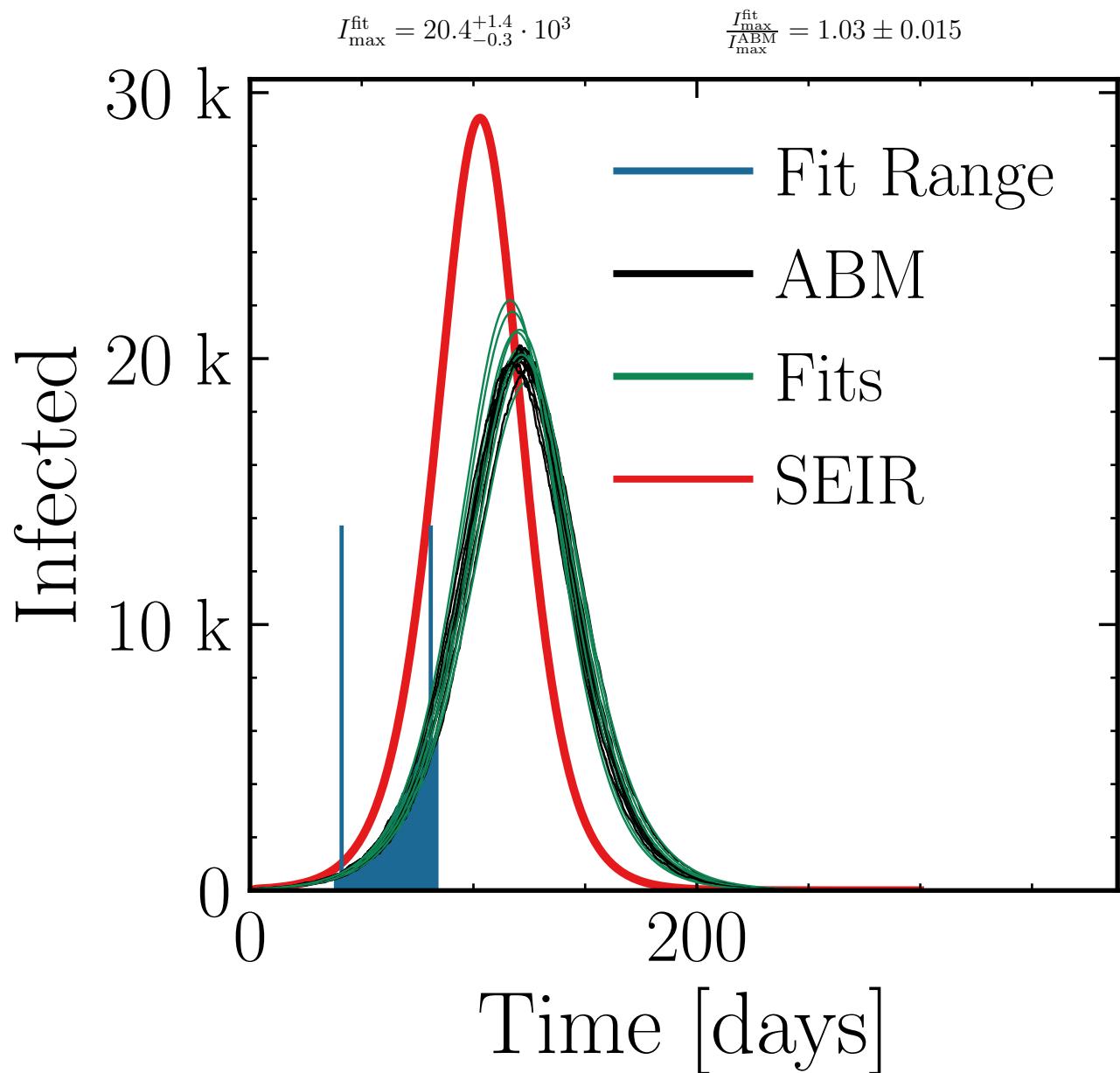
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 2.7 \pm 0.14$$

$$R_{\infty}^{\text{fit}} = 53.6^{+3}_{-0.2} \cdot 10^4$$

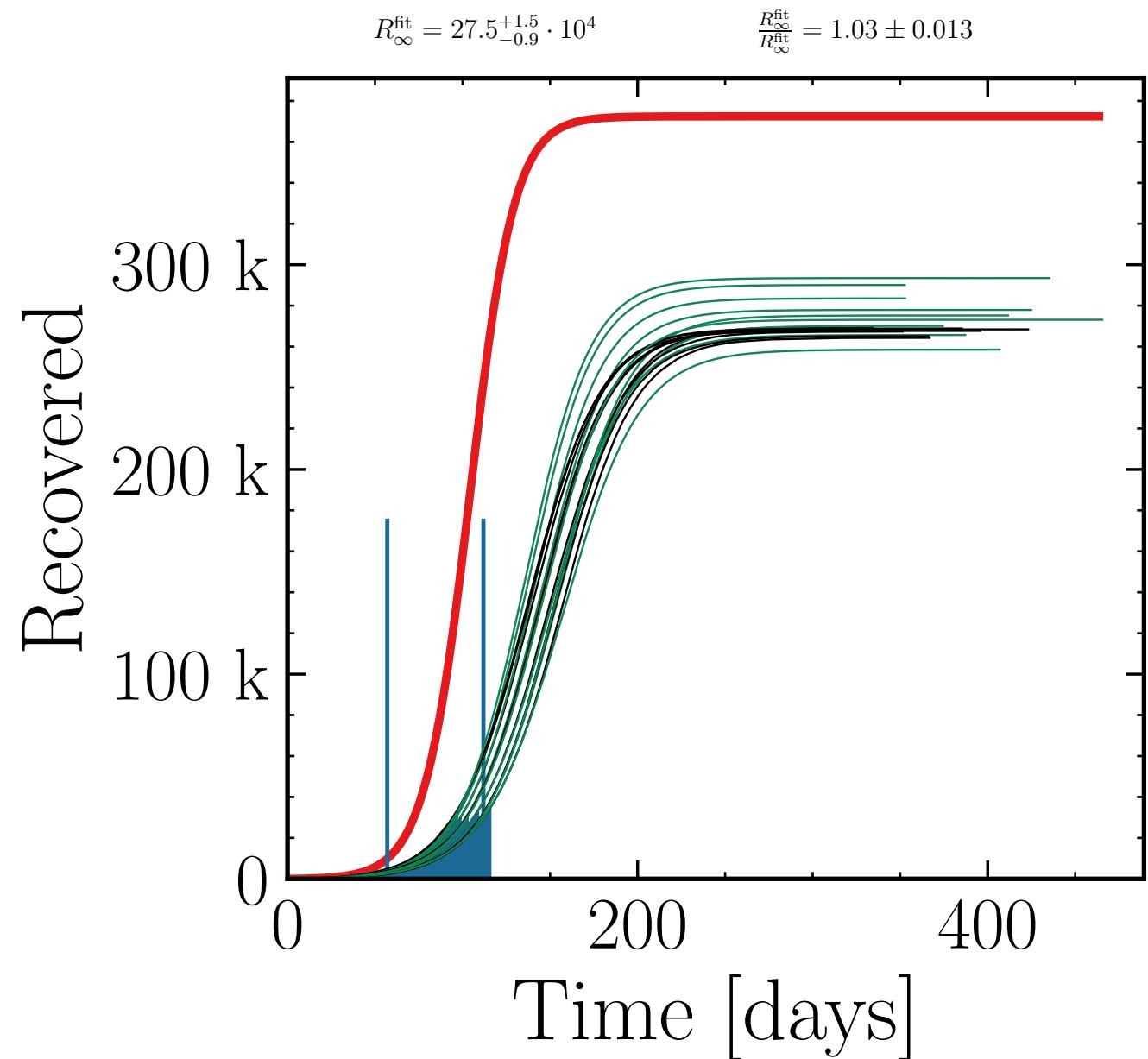
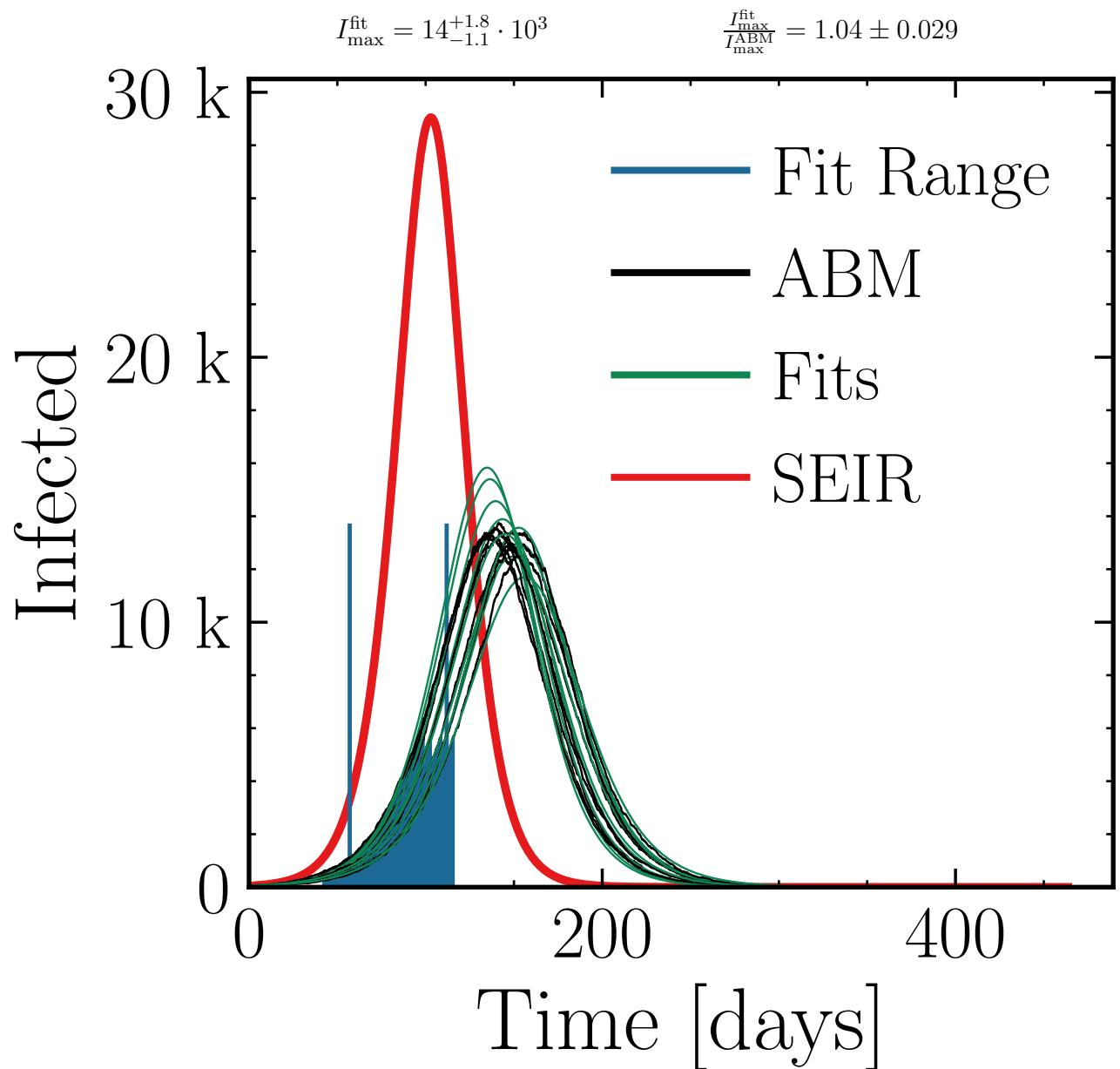
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.41 \pm 0.019$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #9



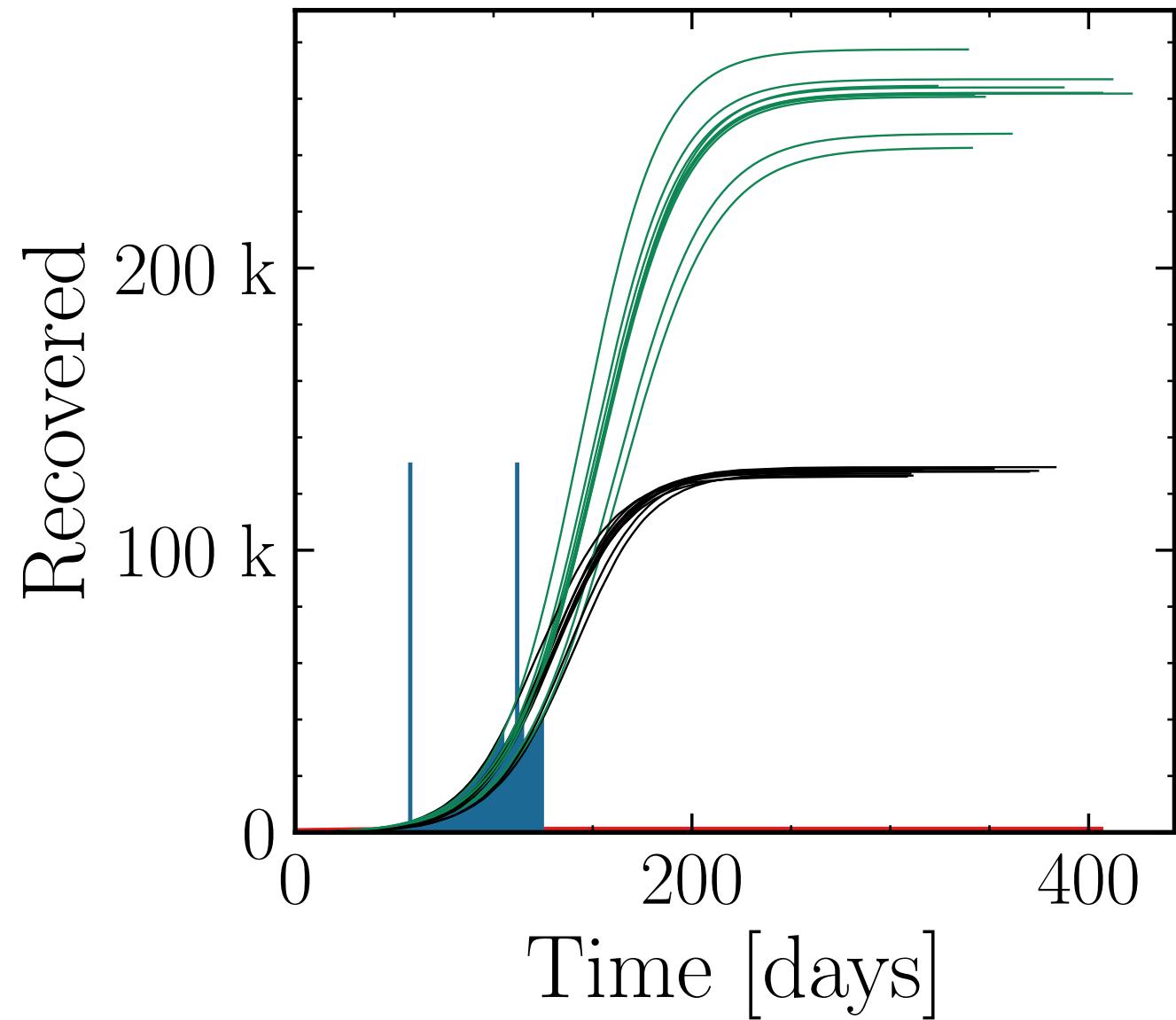
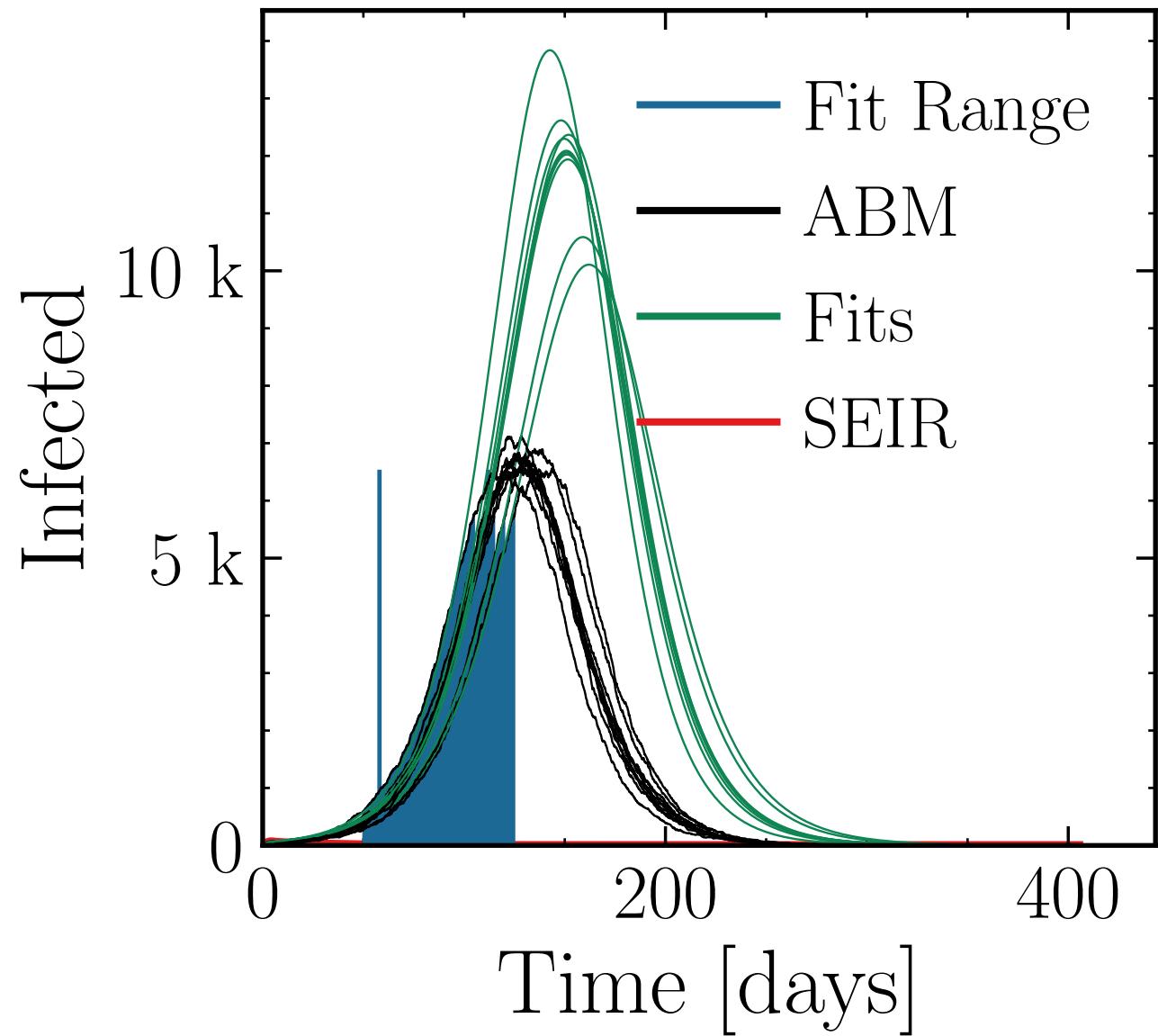
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 121^{+5}_{-15} \cdot 10^2$$

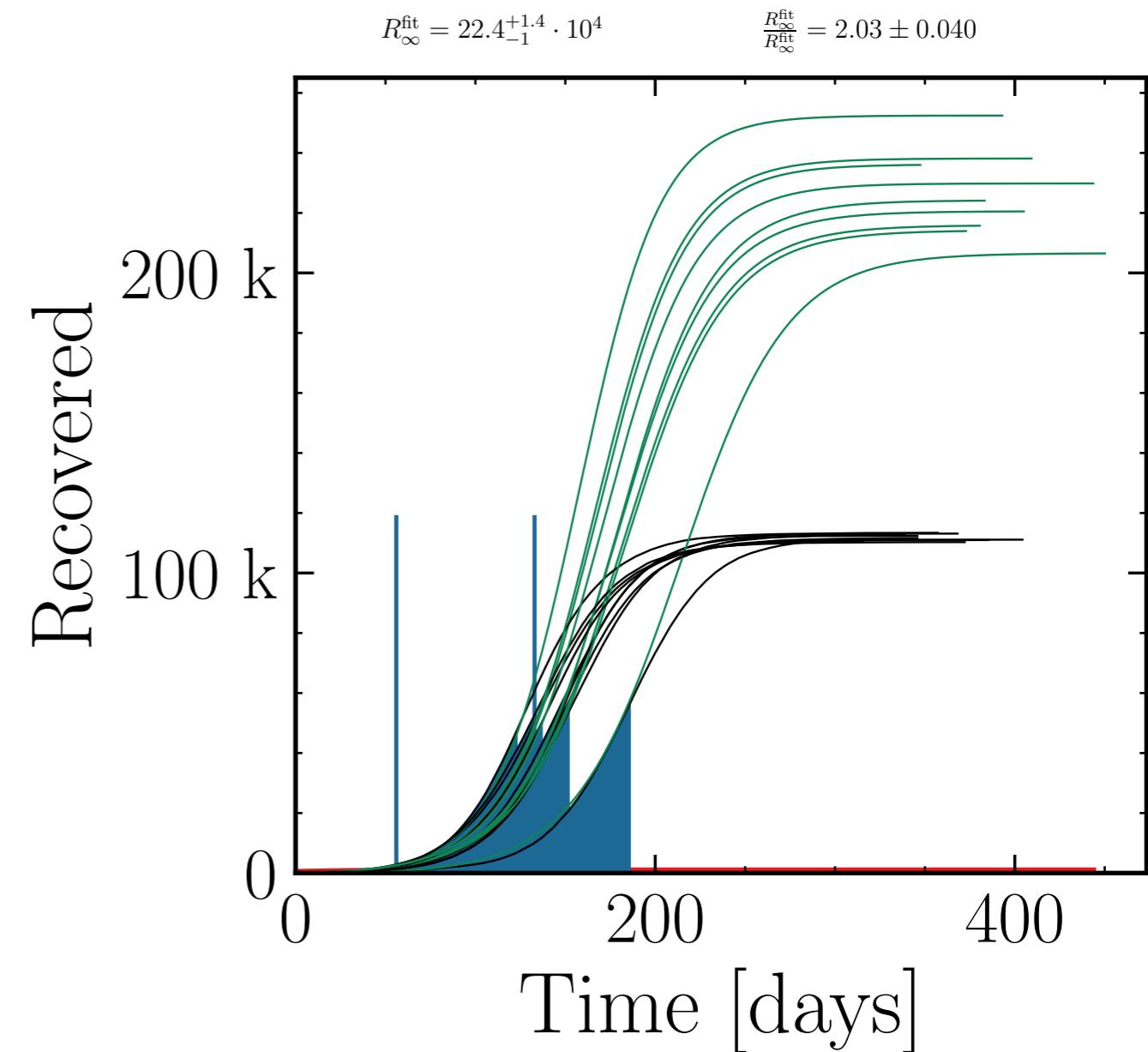
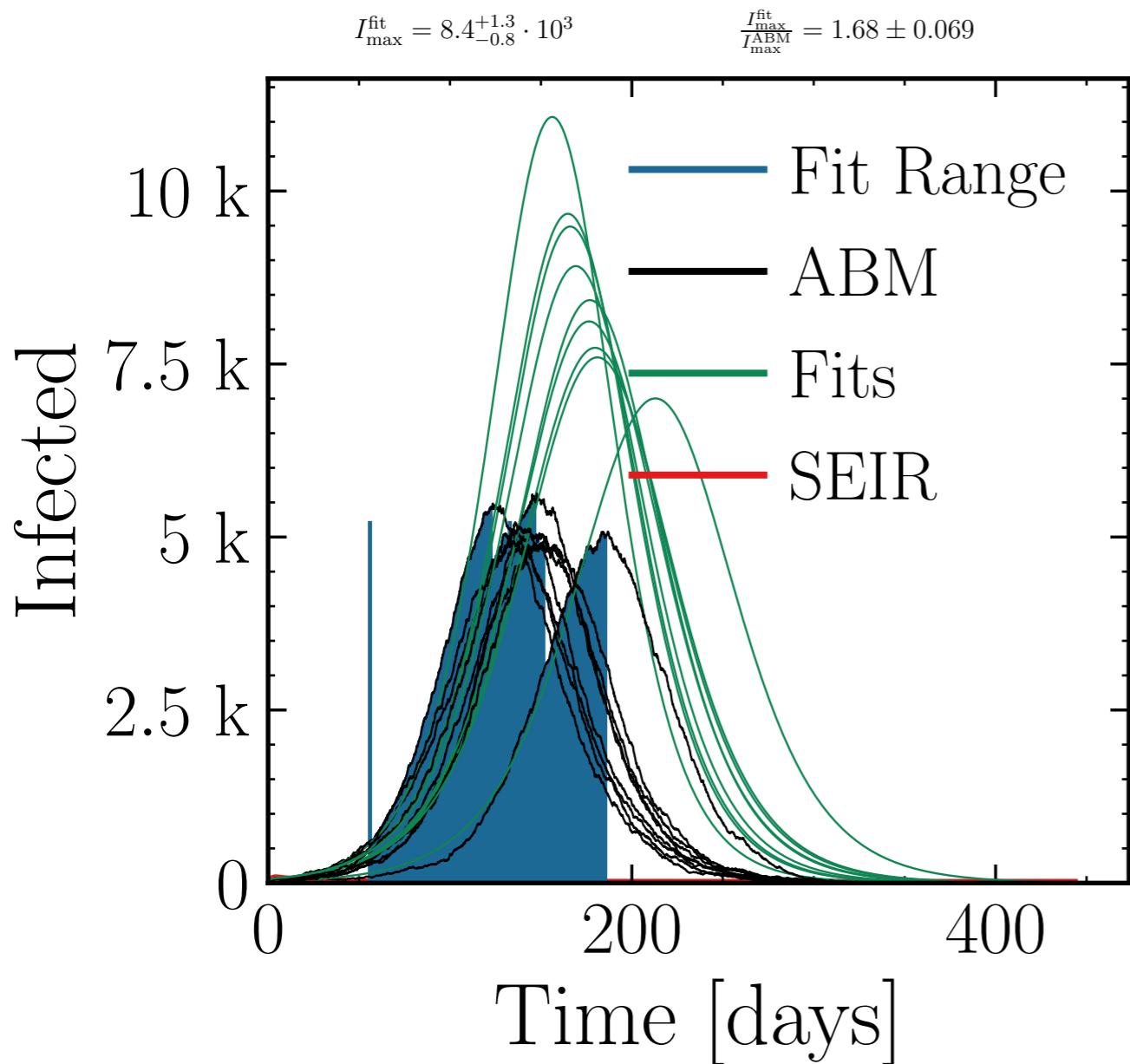
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.78 \pm 0.051$$

$$R_{\infty}^{\text{fit}} = 262^{+5}_{-14} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.04 \pm 0.025$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #9



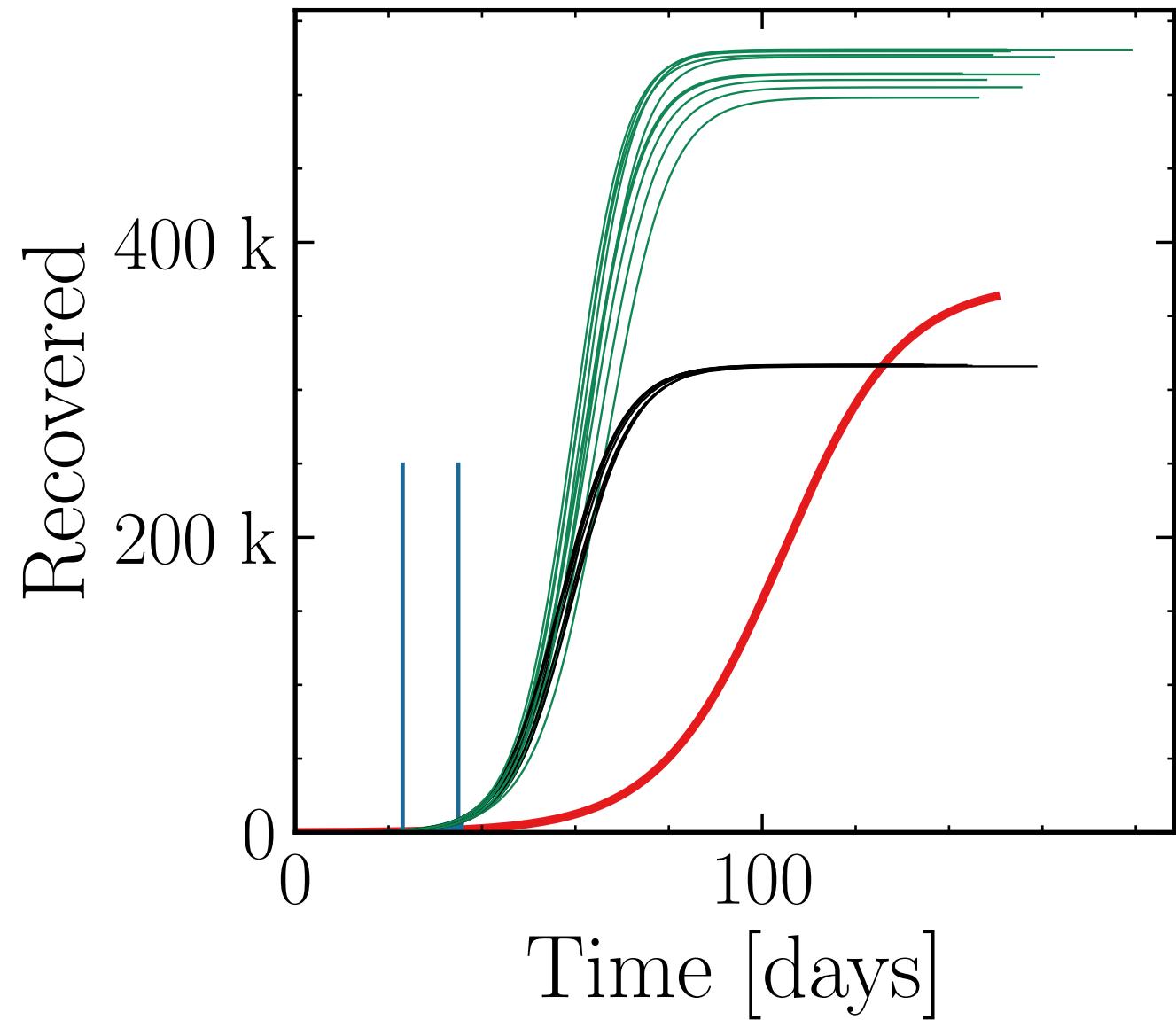
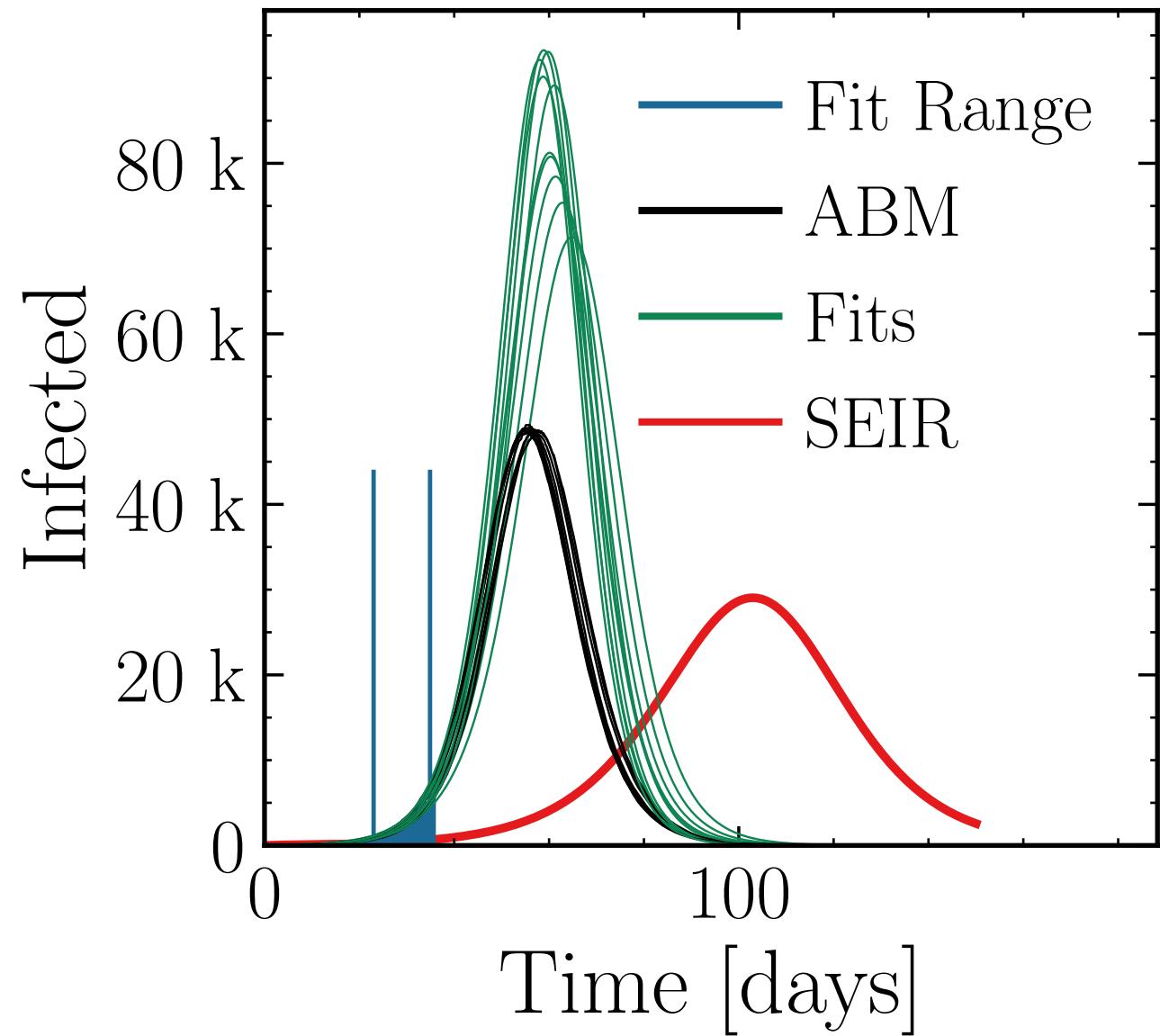
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 84^{+9}_{-9} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.73 \pm 0.051$$

$$R_{\infty}^{\text{fit}} = 52^{+1.1}_{-1.3} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.64 \pm 0.011$$



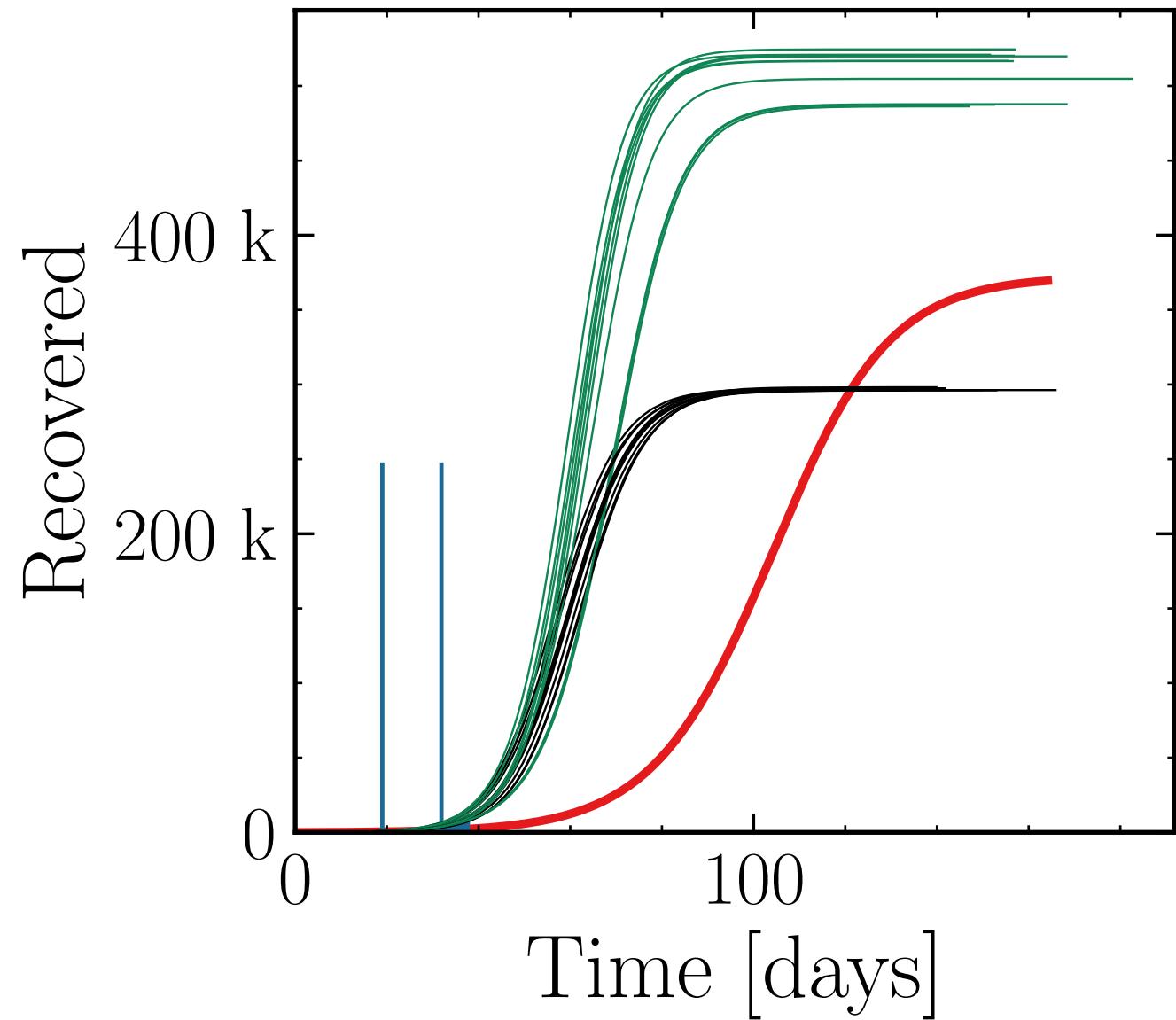
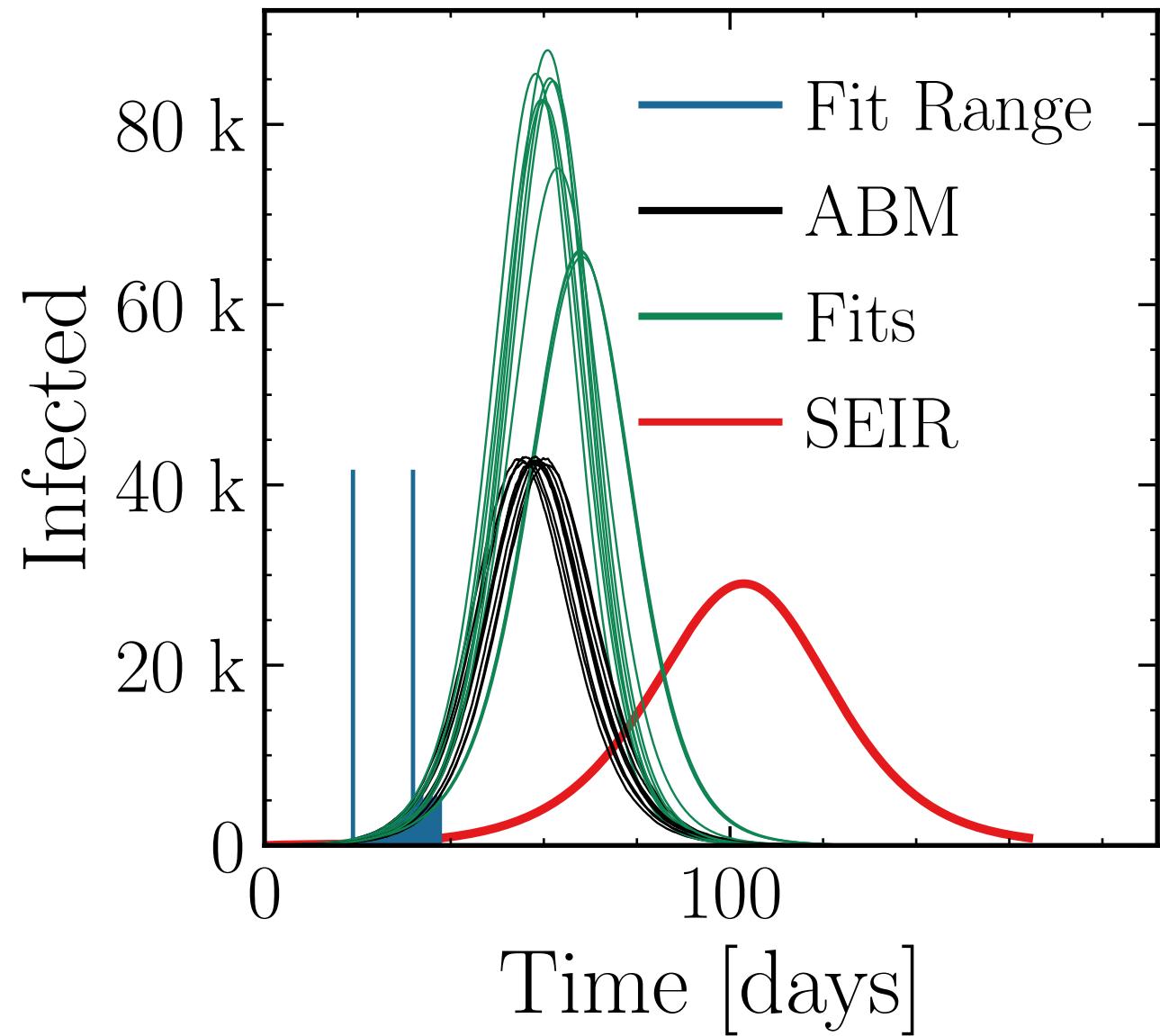
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 83^{+3}_{-17} \cdot 10^3$$

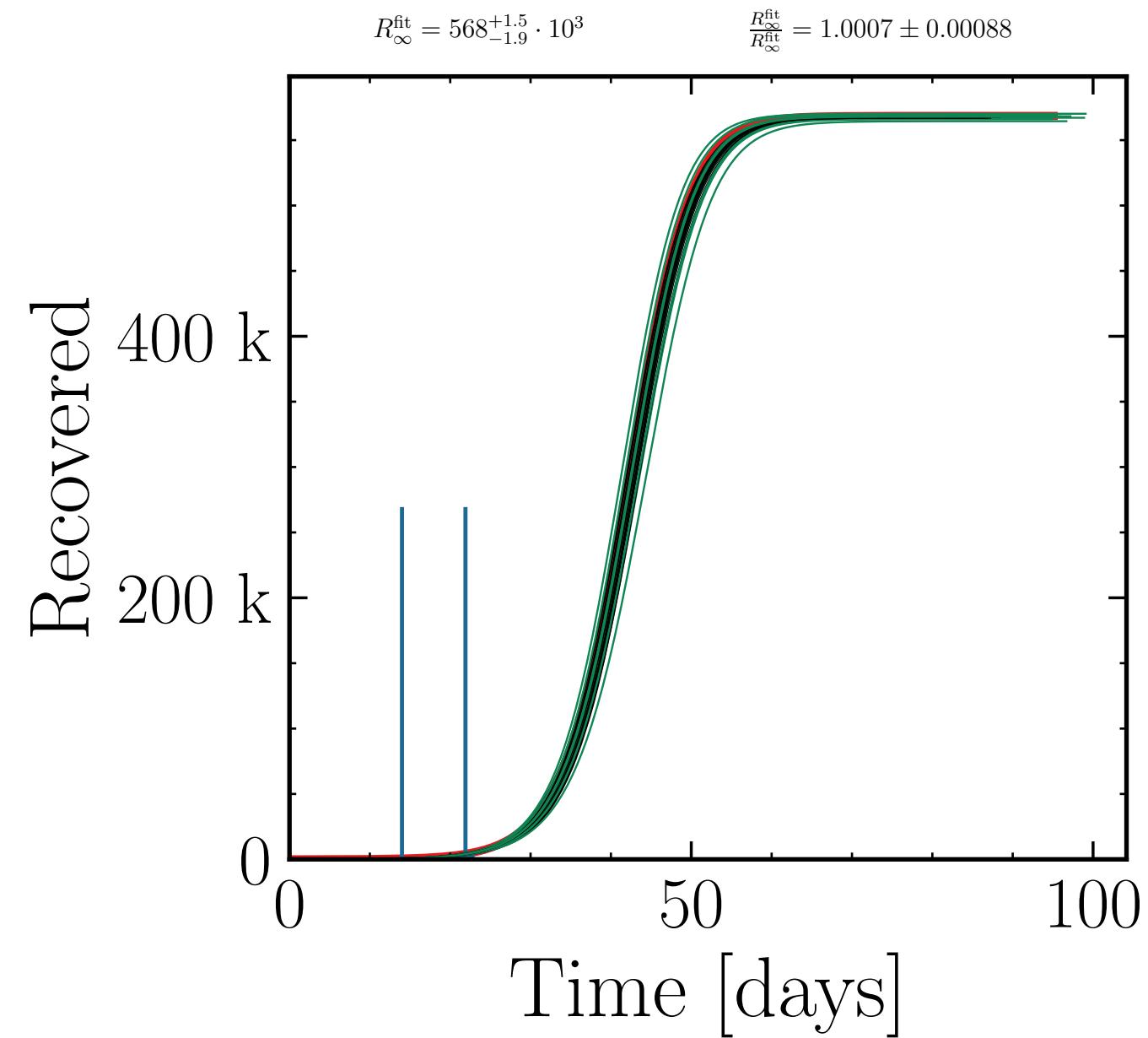
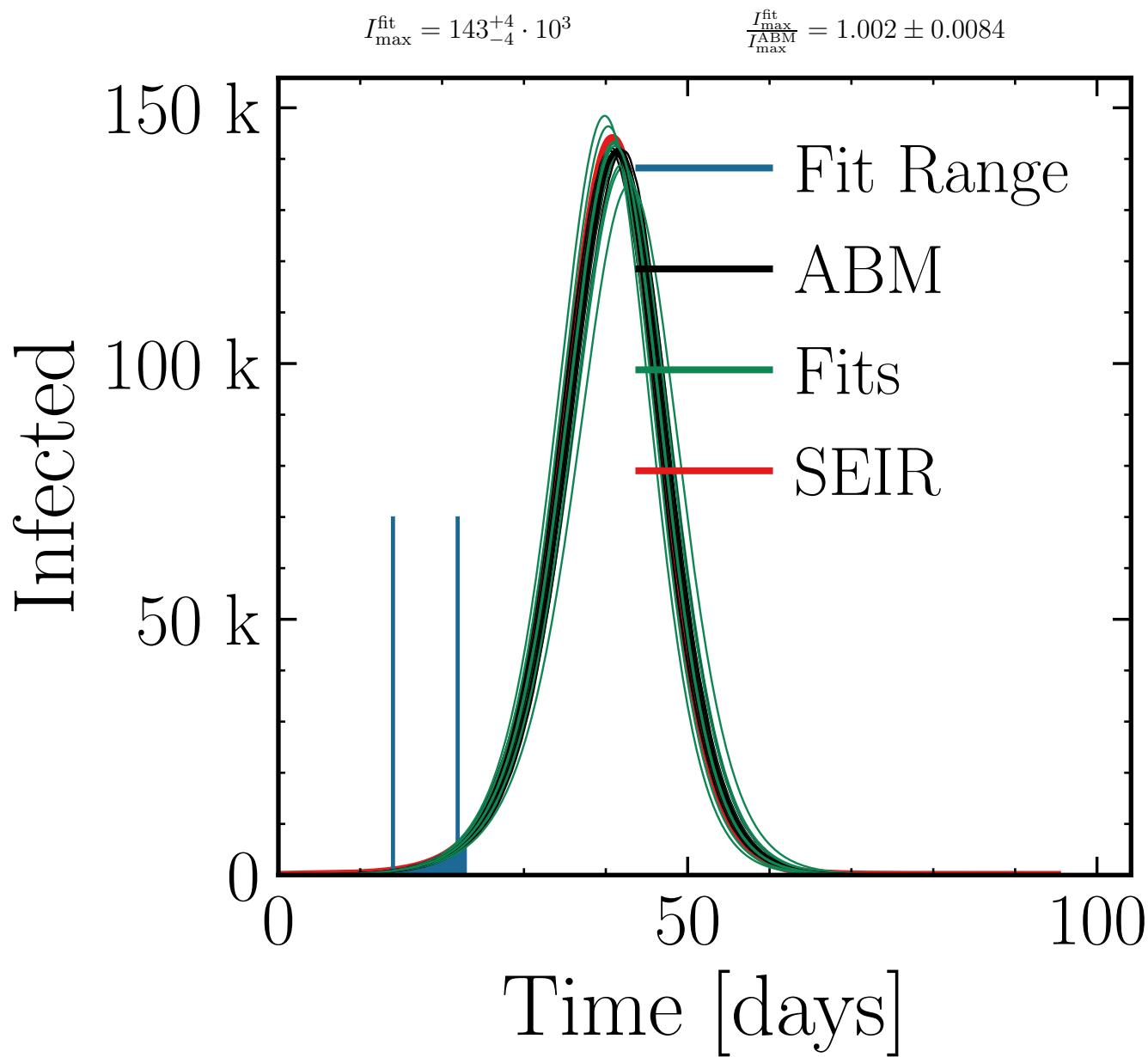
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.83 \pm 0.064$$

$$R_{\infty}^{\text{fit}} = 517^{+4}_{-30} \cdot 10^3$$

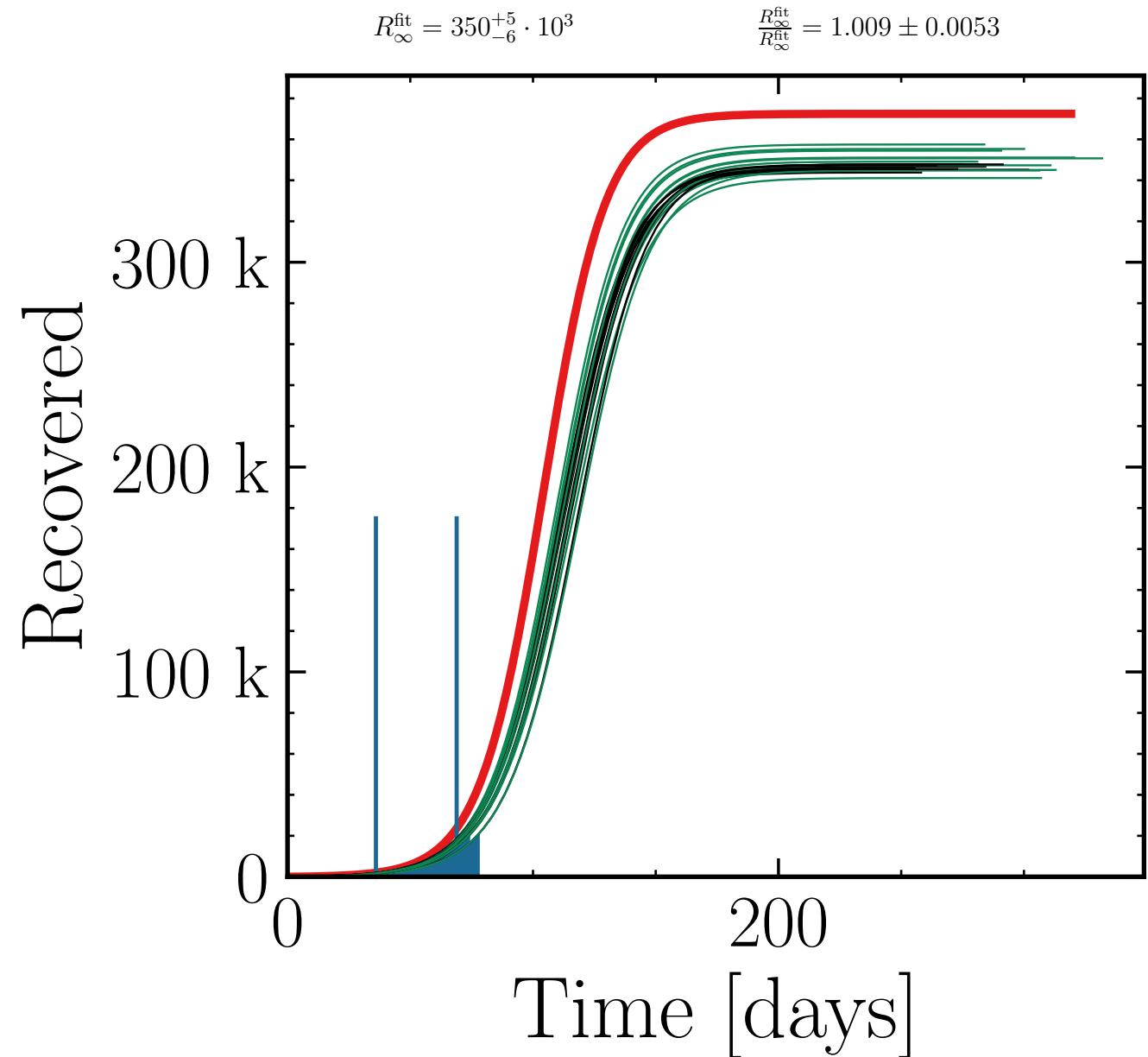
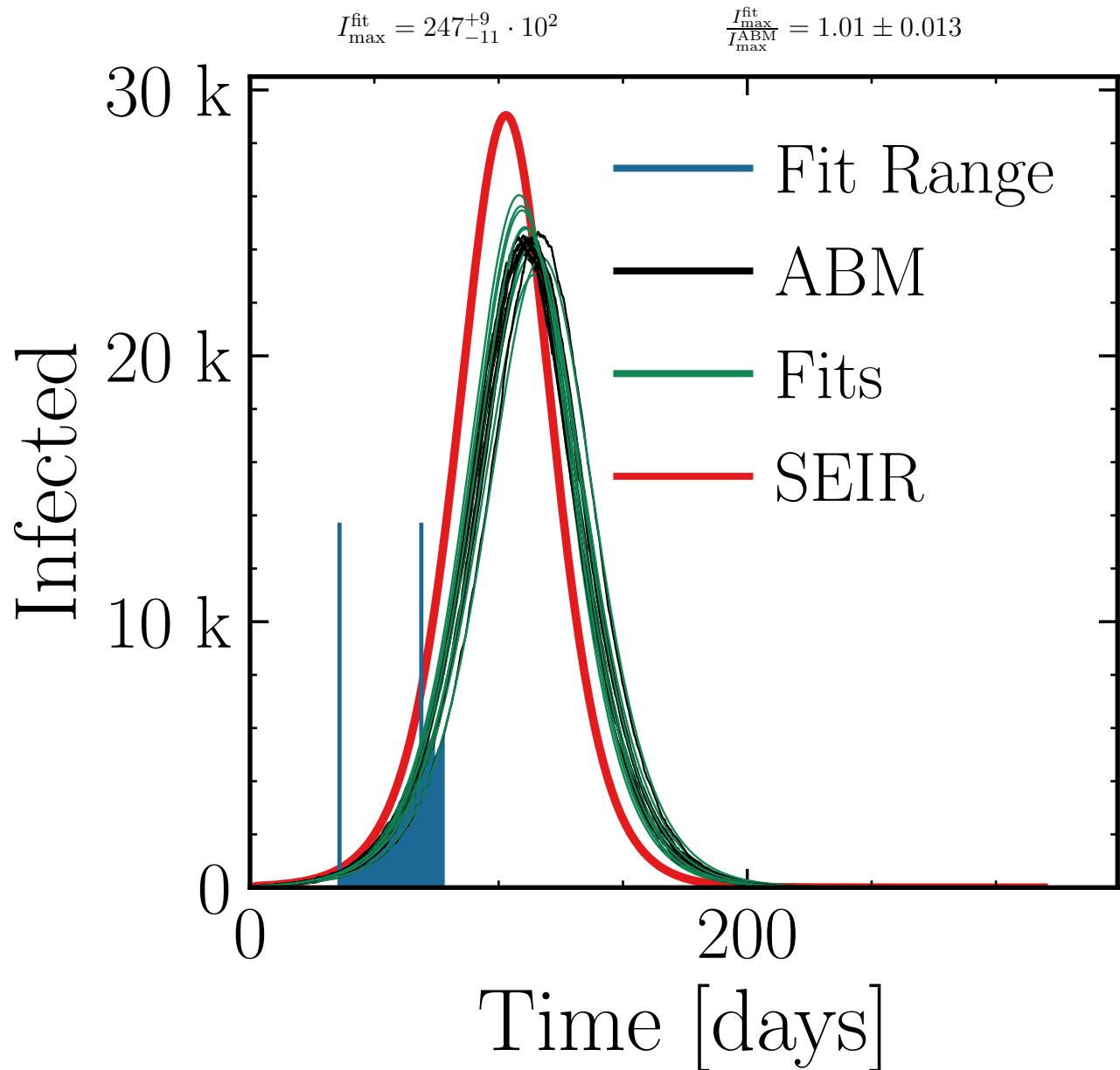
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.71 \pm 0.015$$



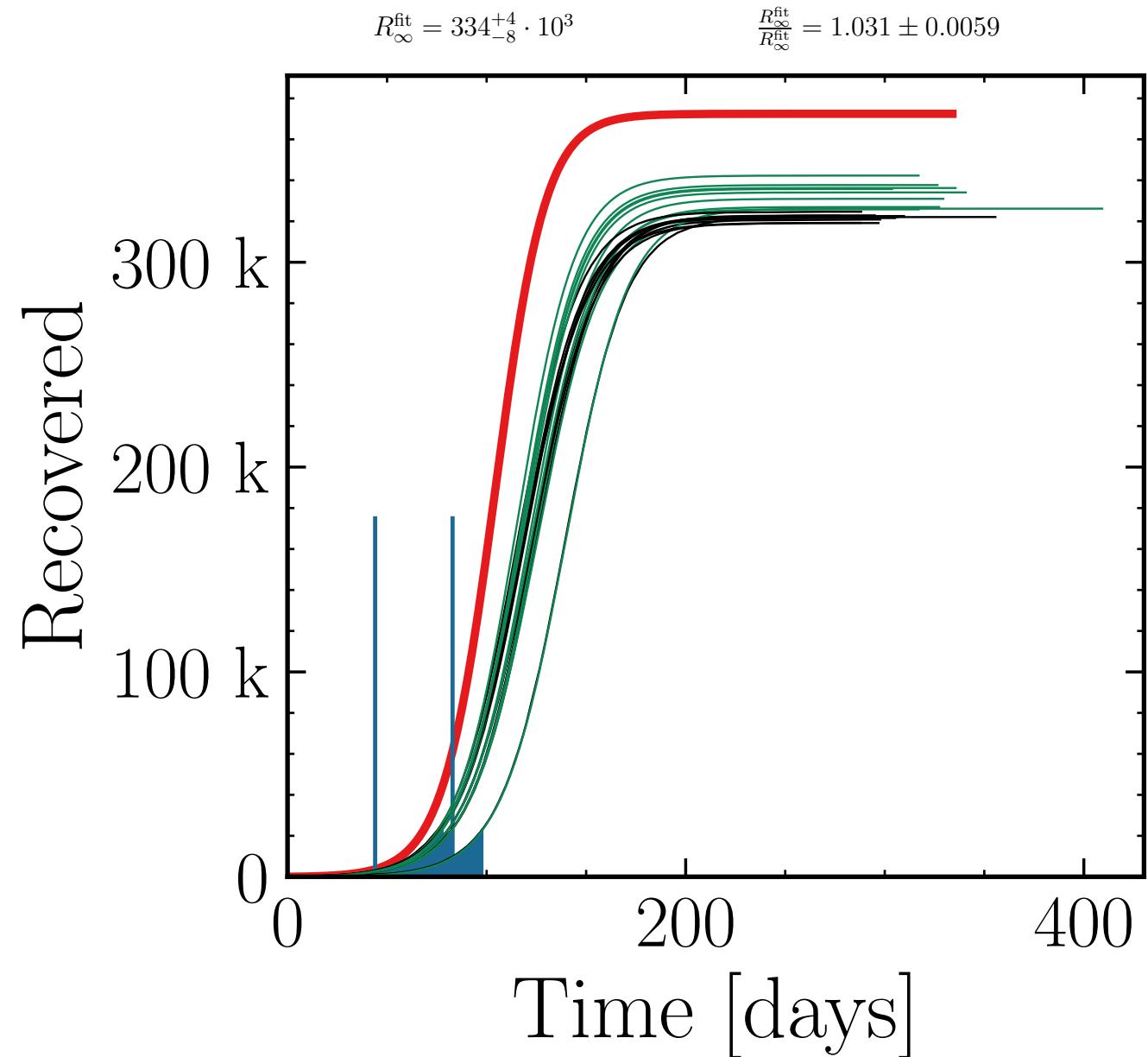
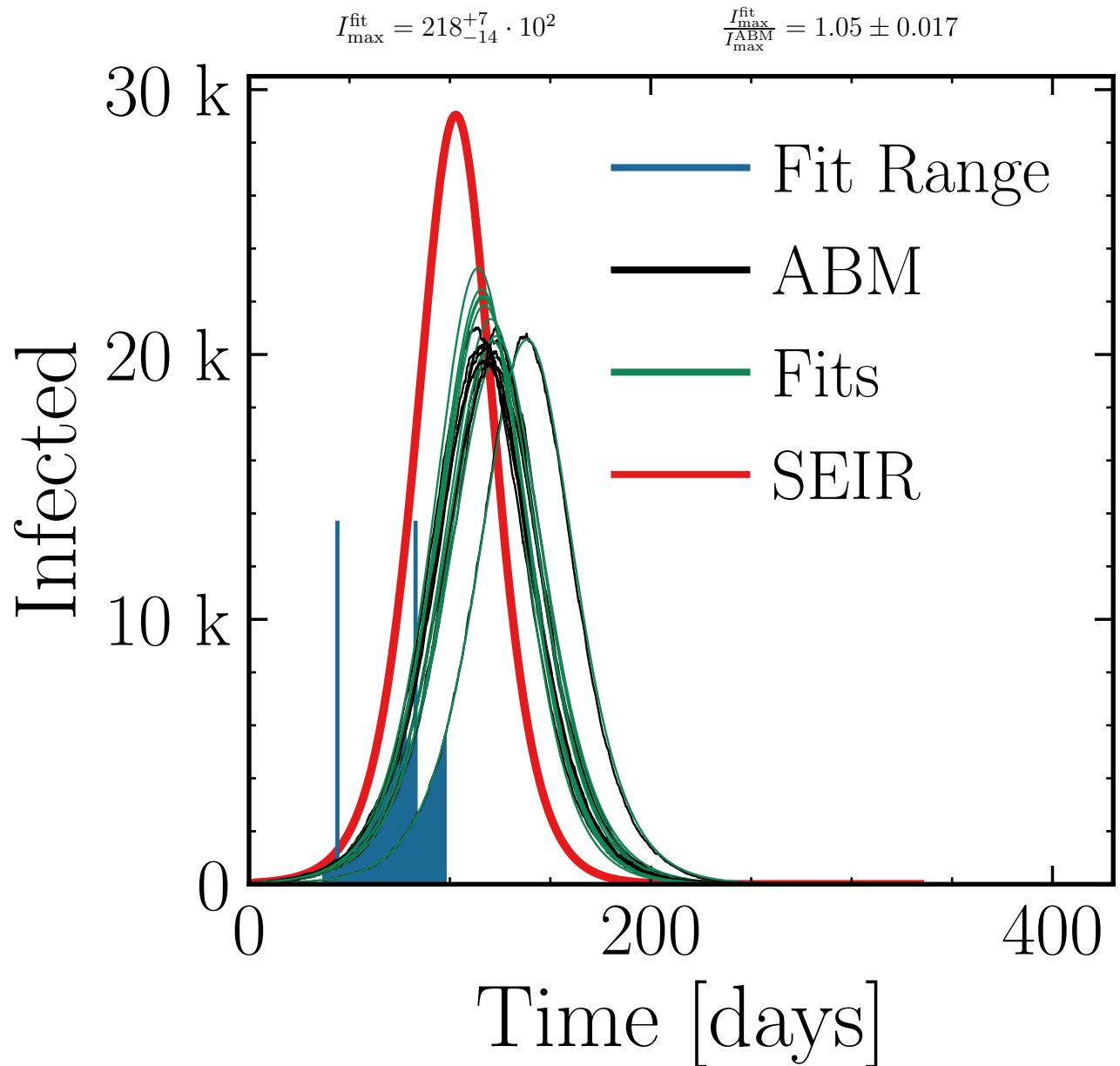
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 100.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



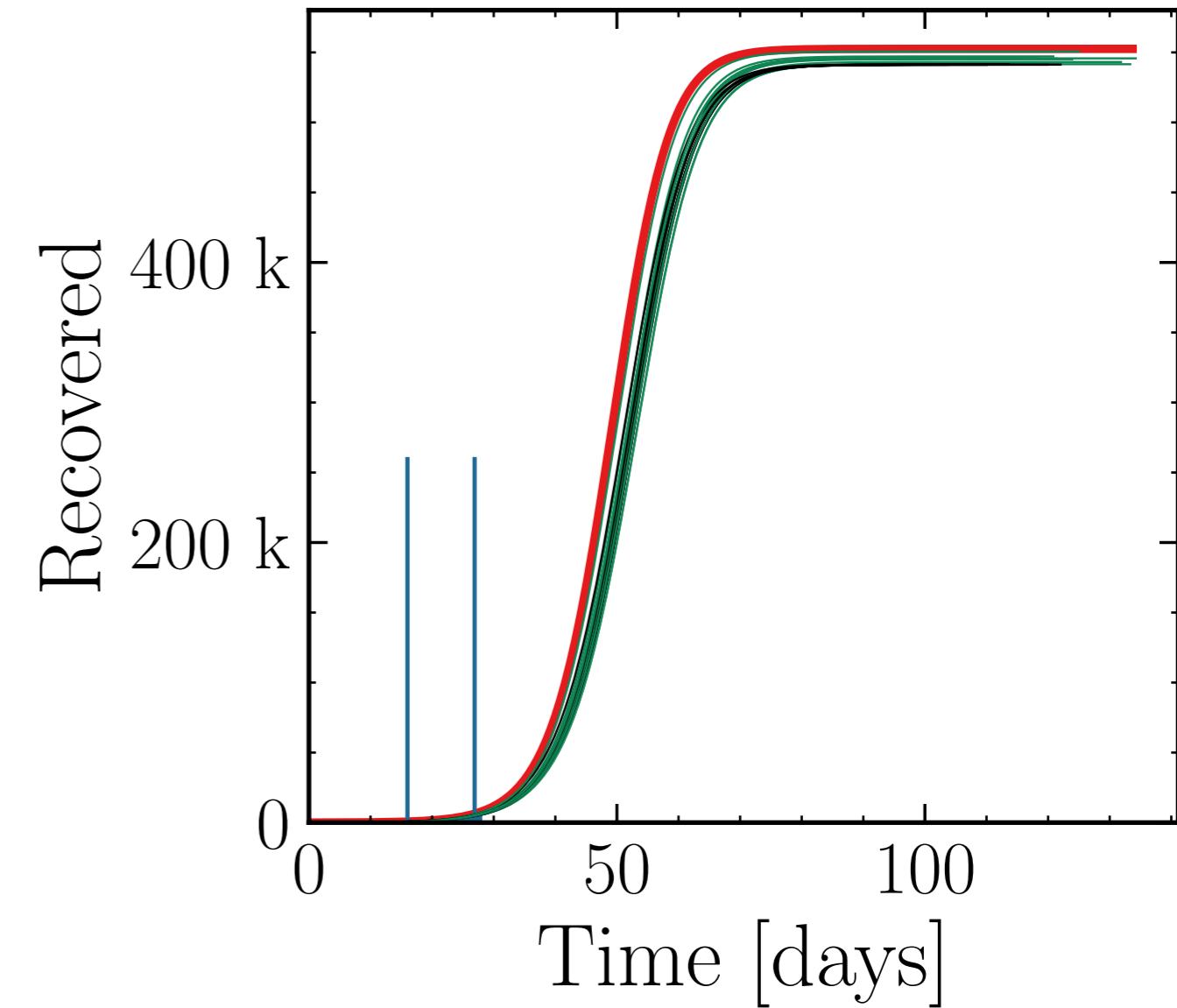
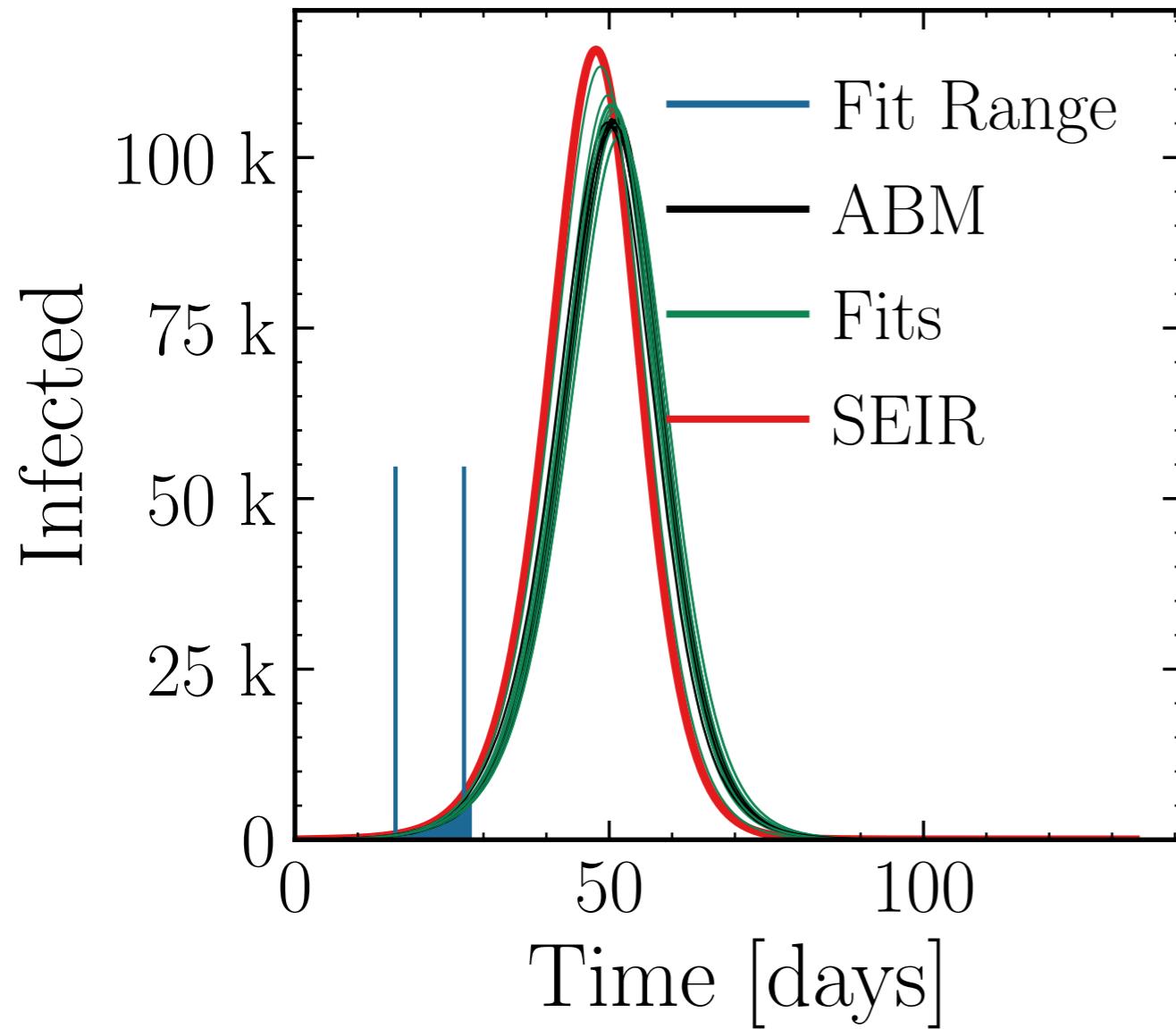
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 108^{+1.5}_{-4} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 1.019 \pm 0.0090$$

$$R_{\infty}^{\text{fit}} = 546^{+1.4}_{-4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.007 \pm 0.0015$$



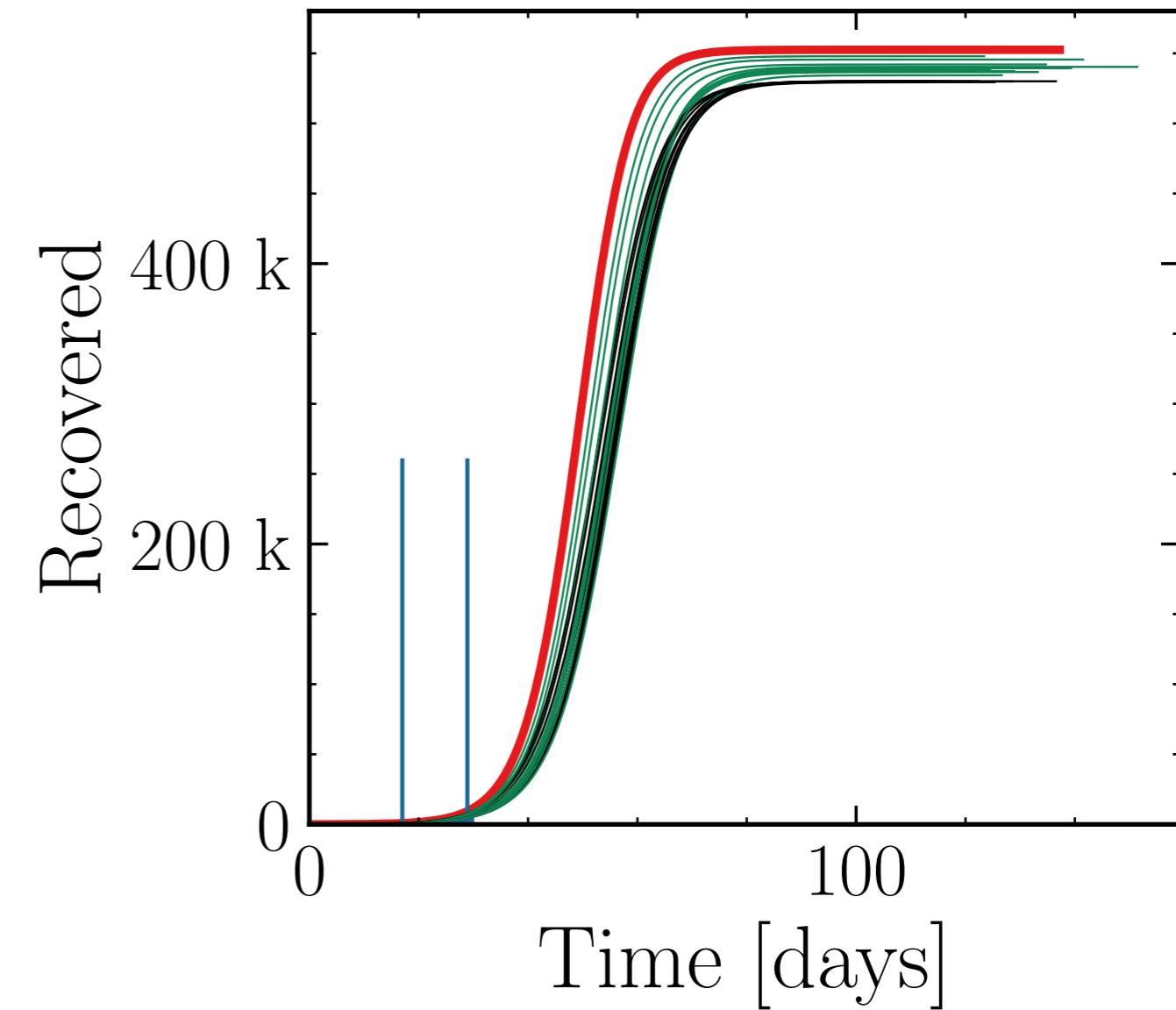
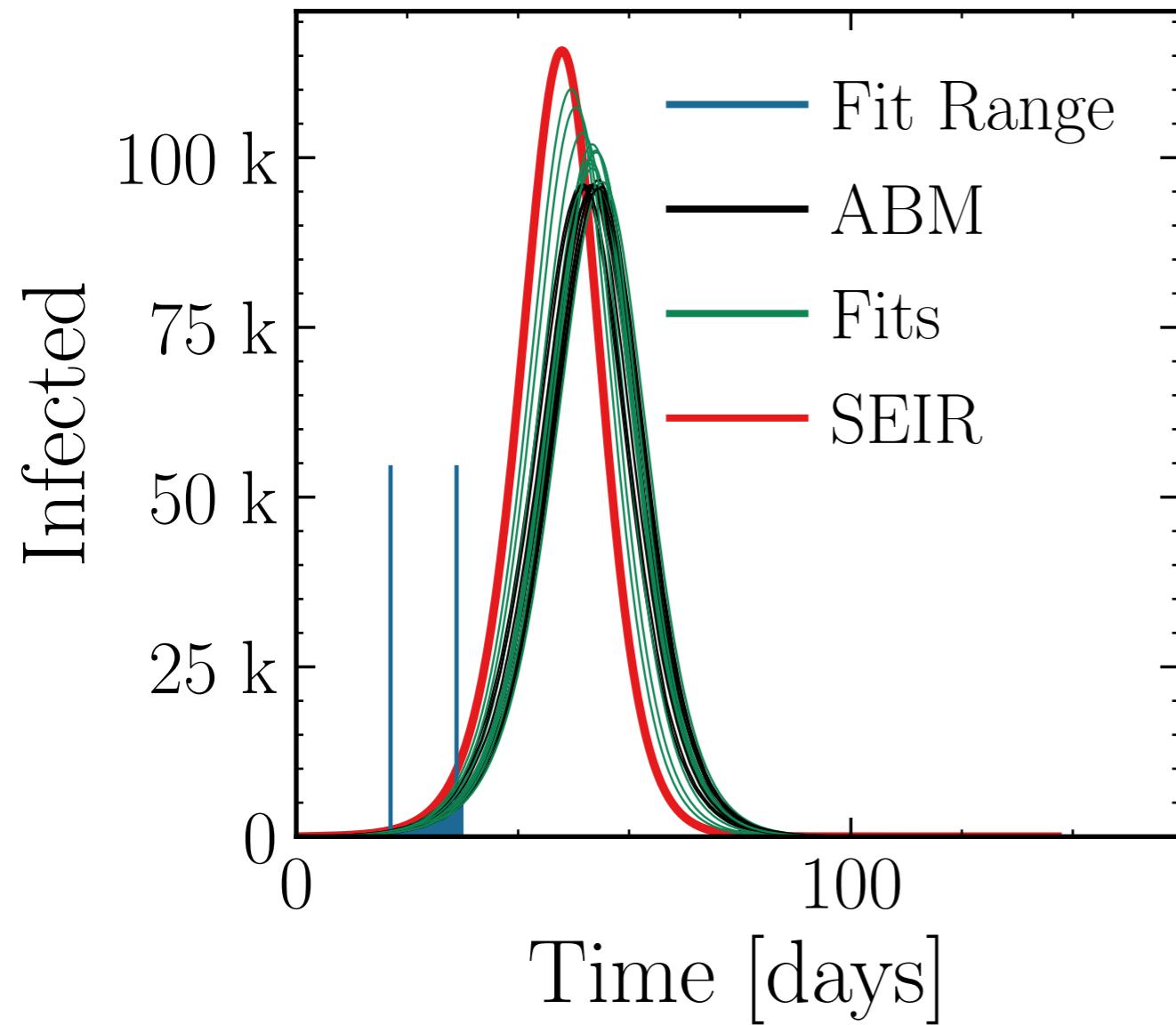
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 101^{+7}_{-2} \cdot 10^3$$

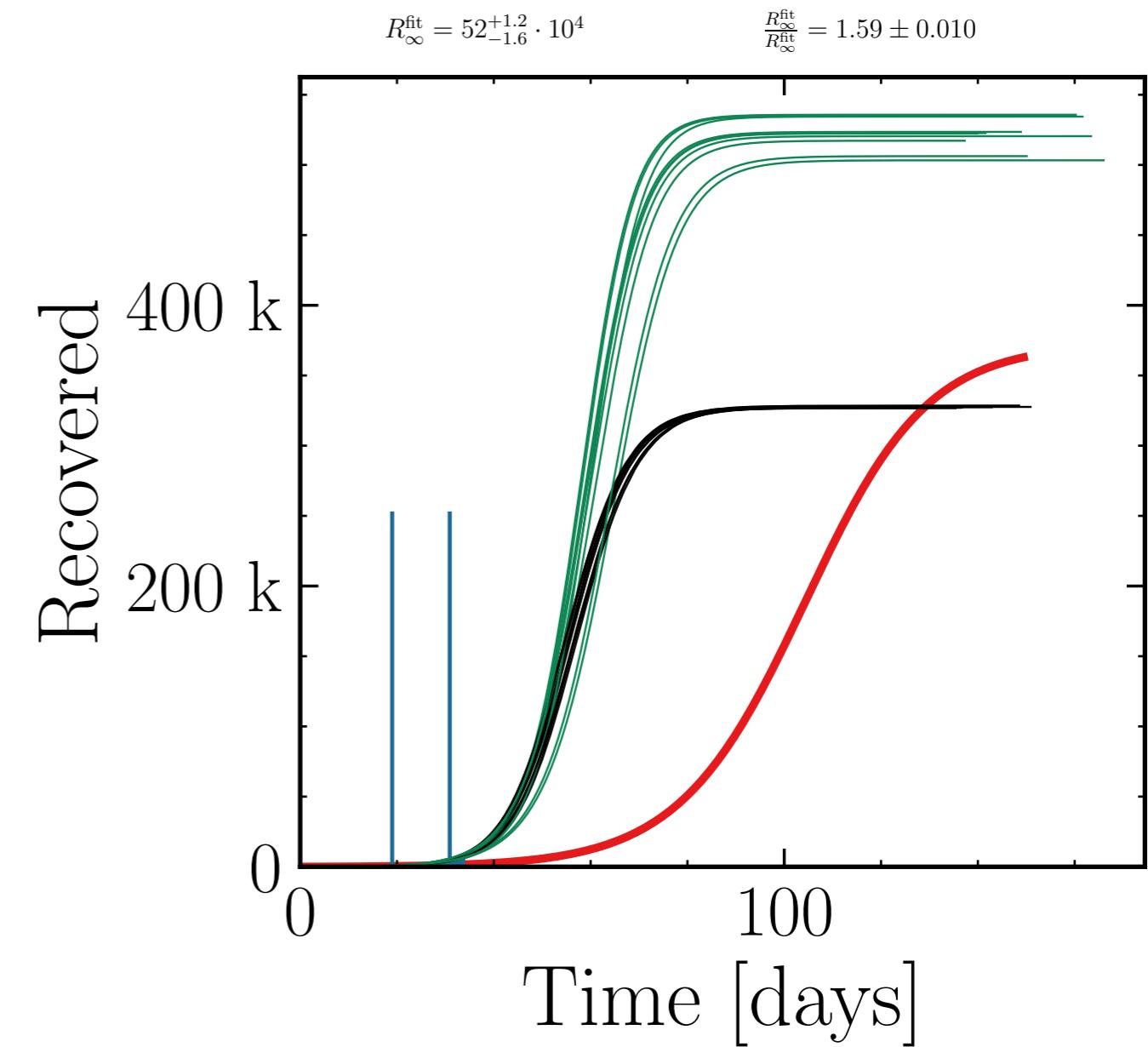
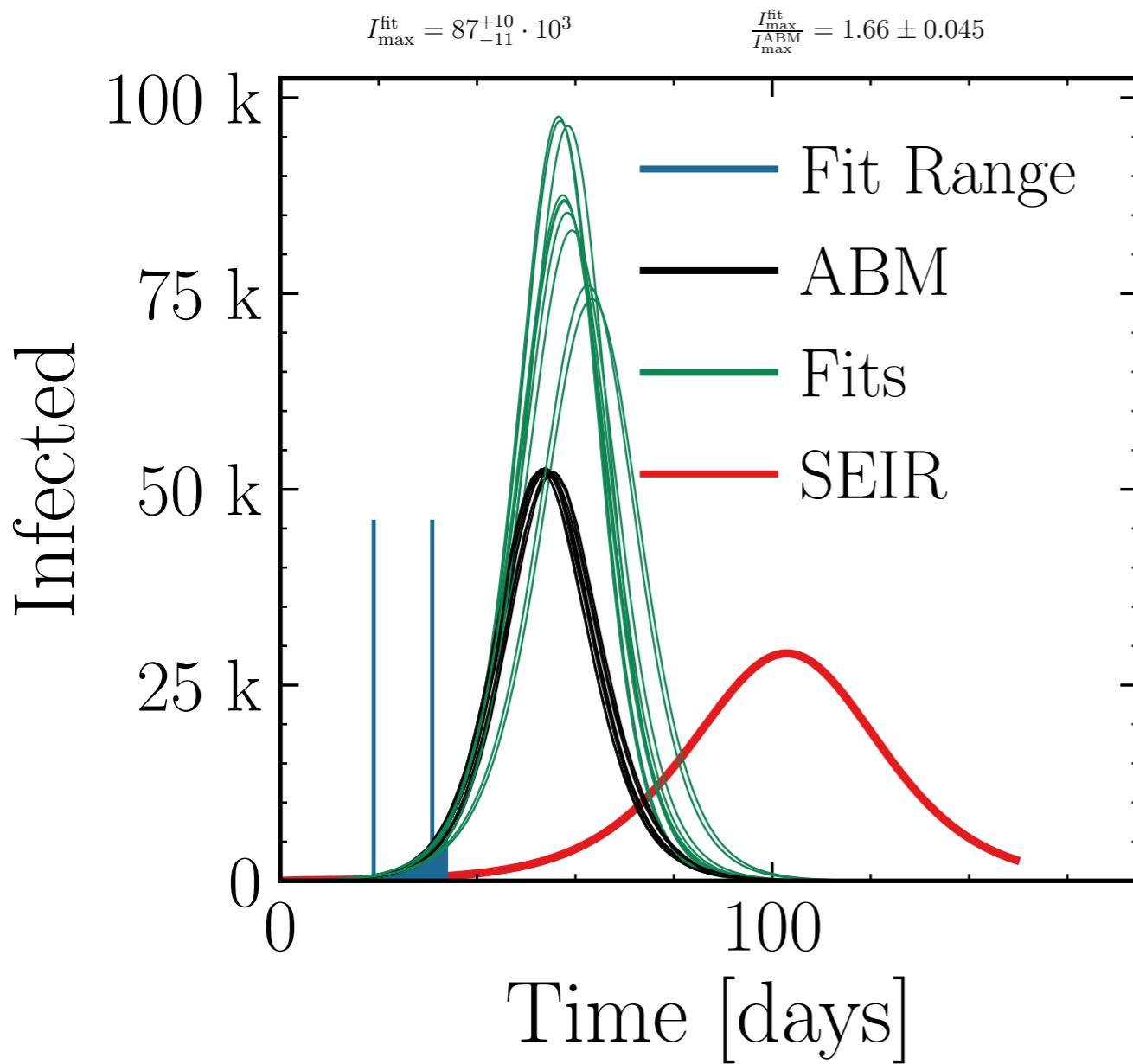
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 1.06 \pm 0.013$$

$$R_{\infty}^{\text{fit}} = 539^{+7}_{-2} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.019 \pm 0.0024$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



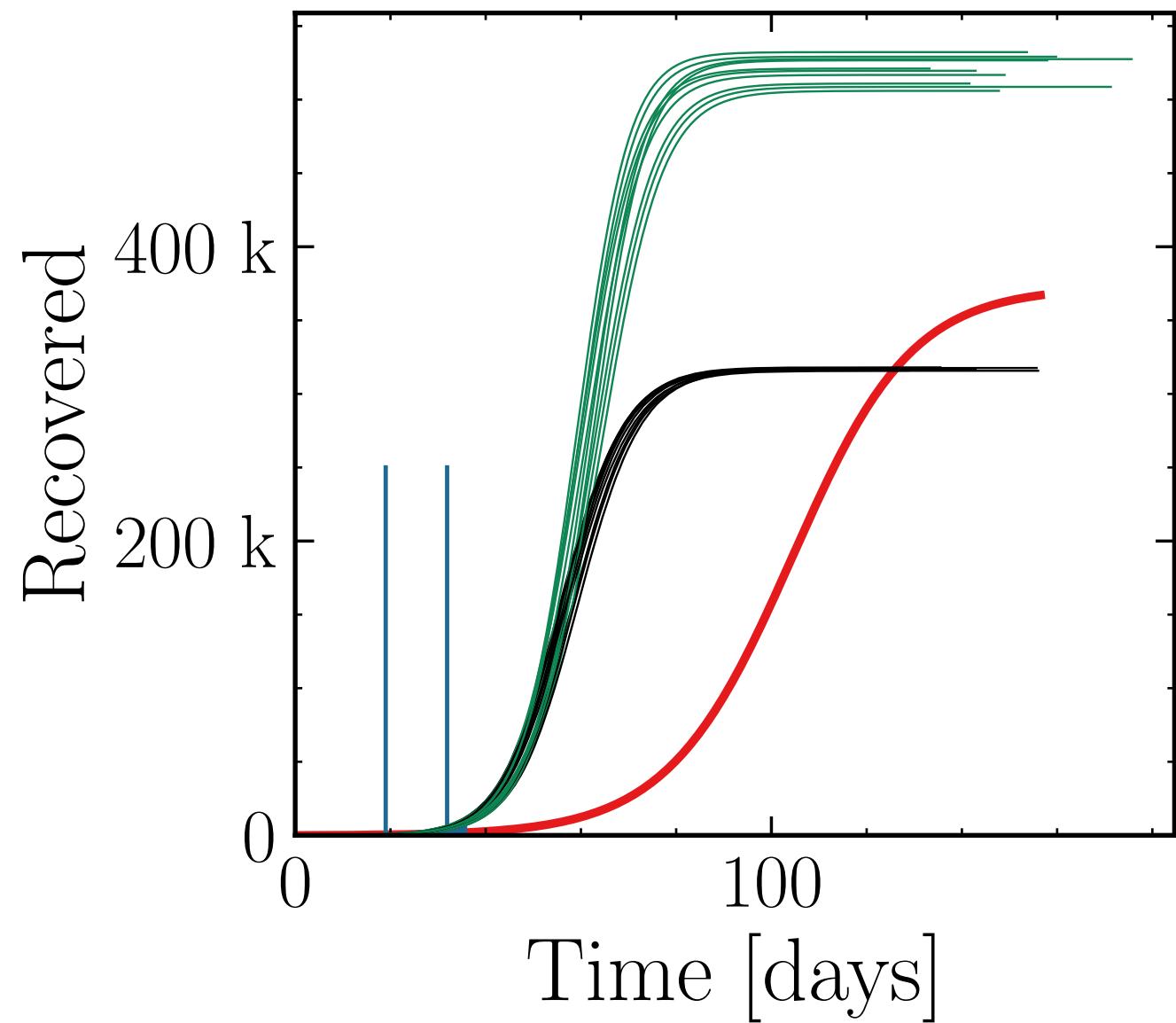
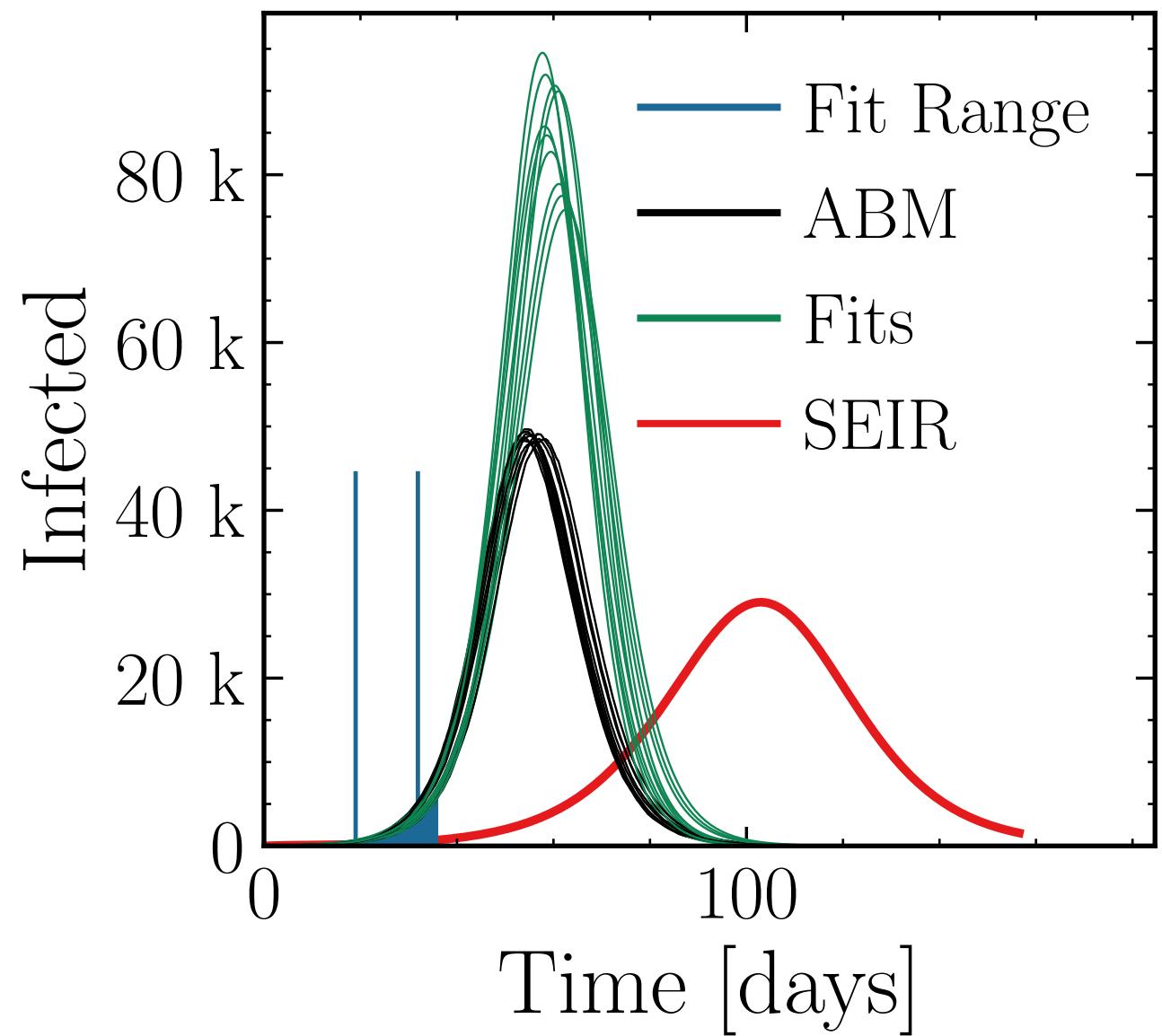
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 85_{-8}^{+7} \cdot 10^3$$

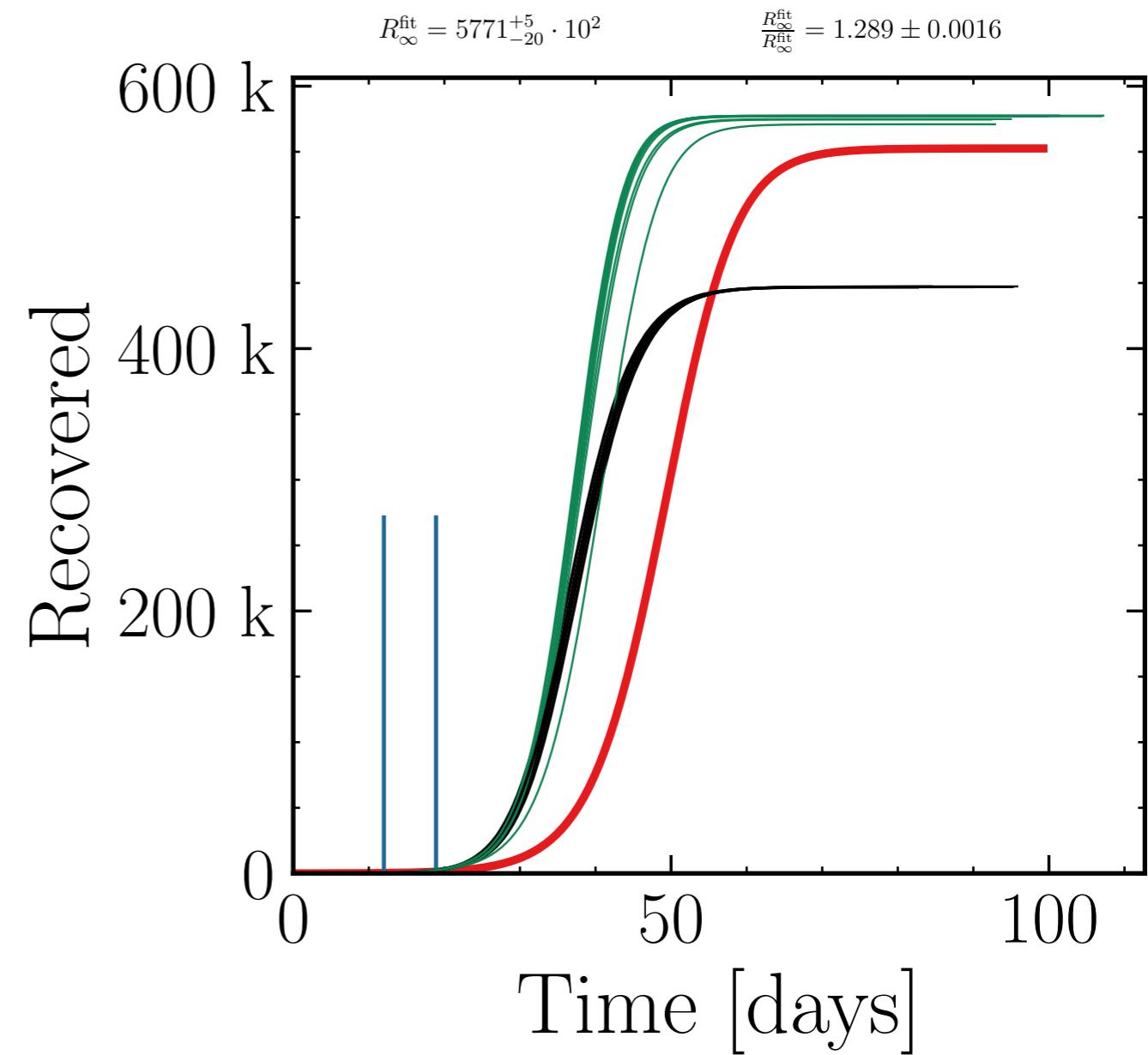
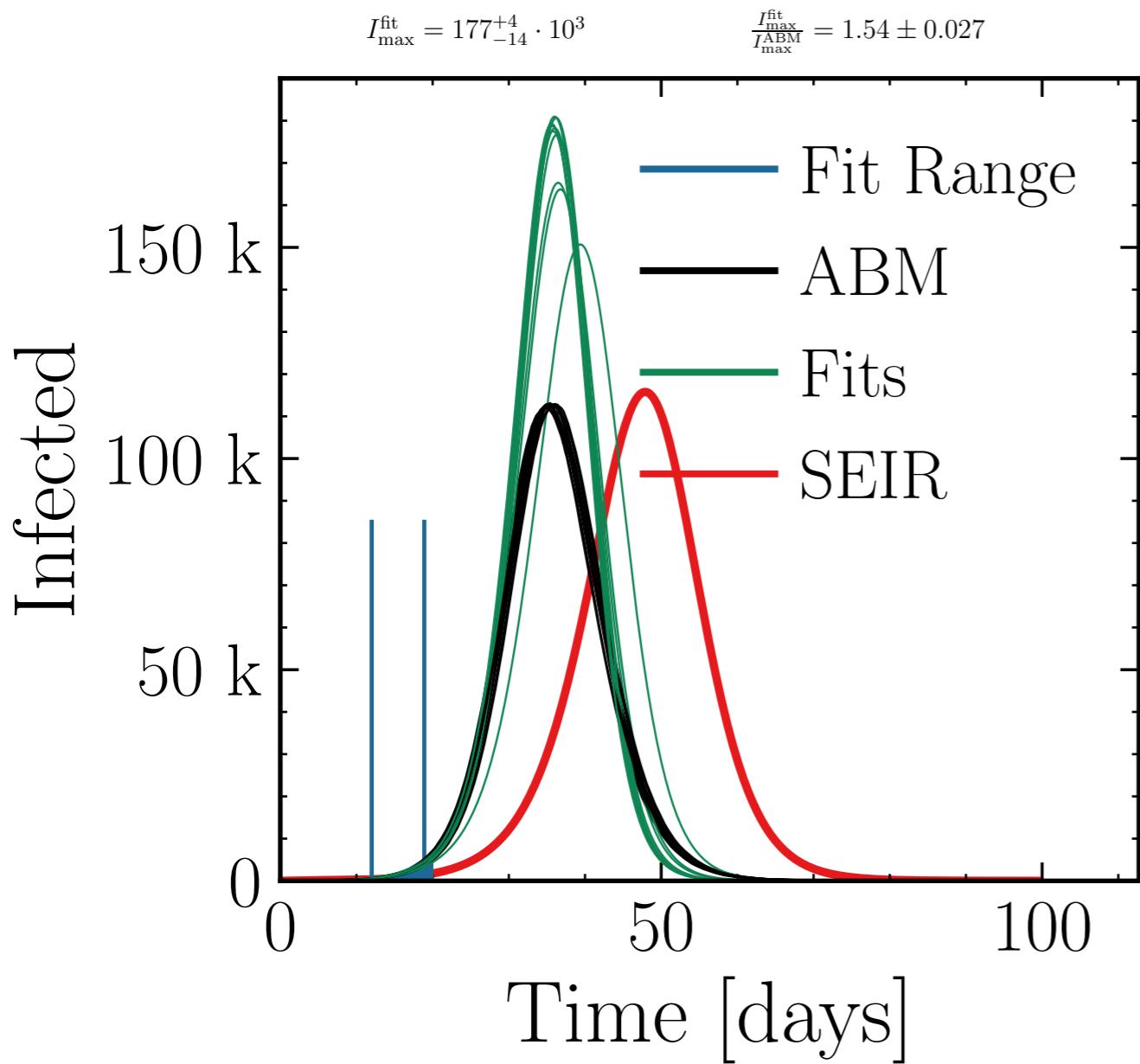
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.75 \pm 0.039$$

$$R_{\infty}^{\text{fit}} = 520_{-12}^{+9} \cdot 10^3$$

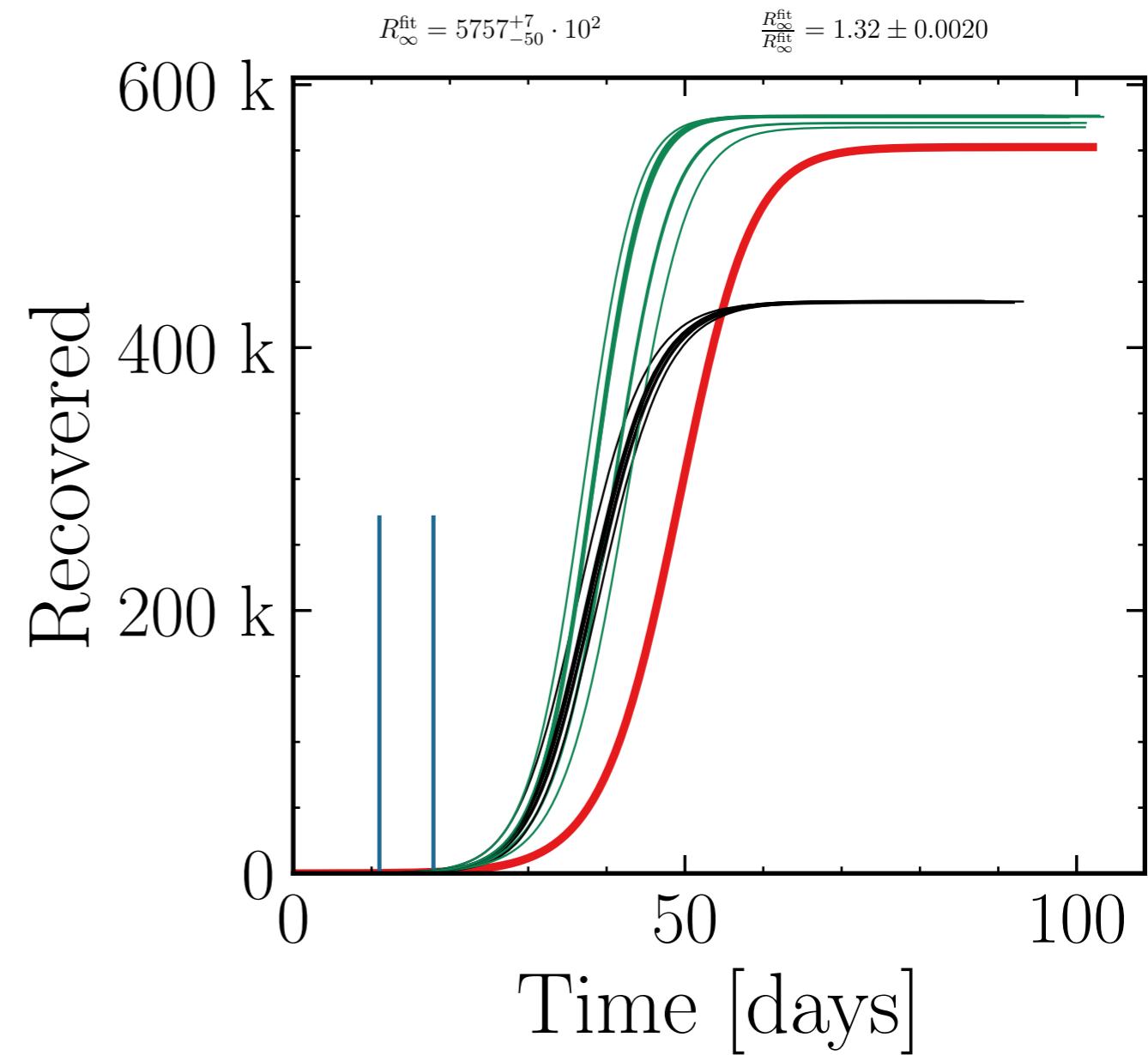
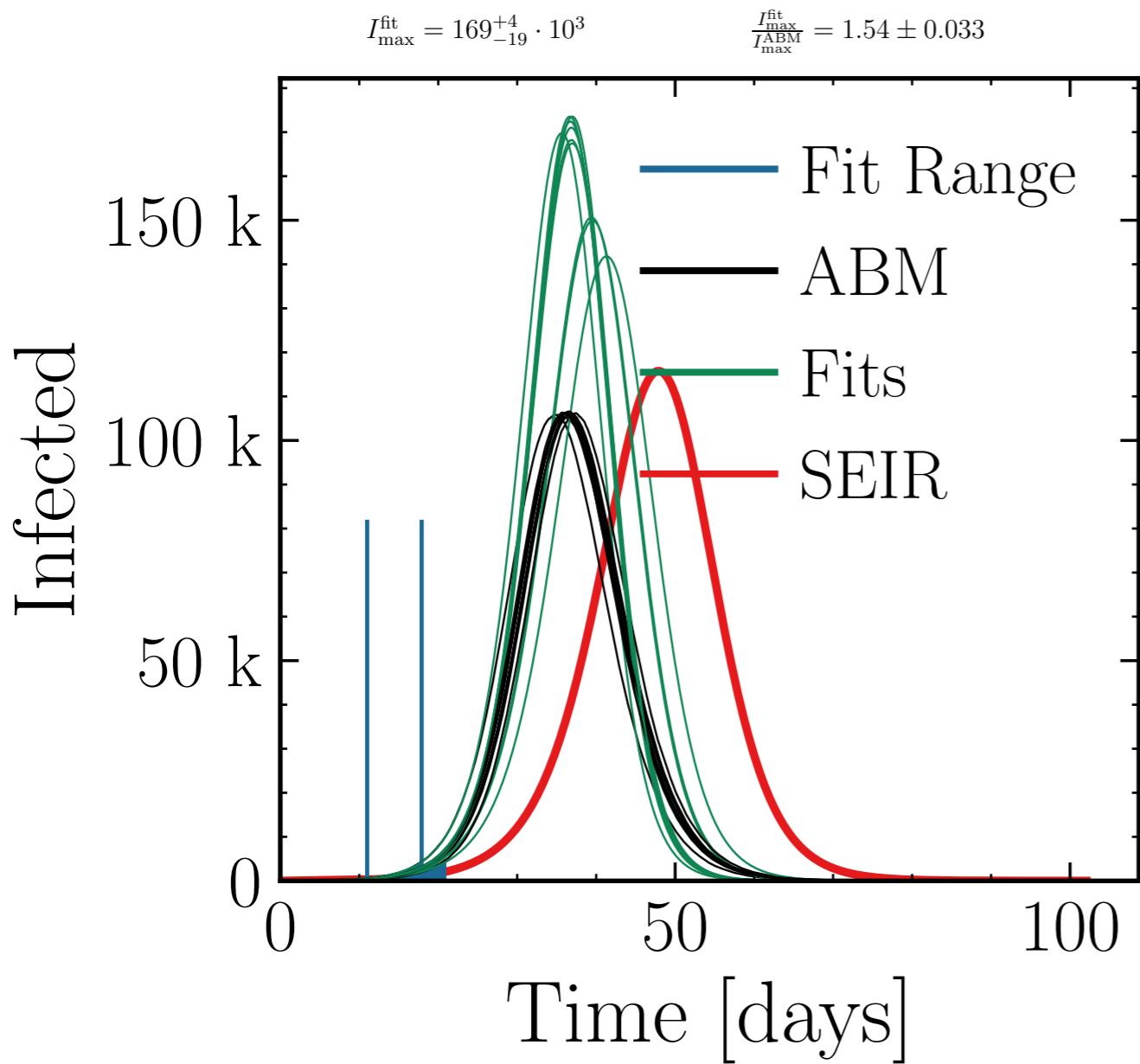
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.641 \pm 0.0090$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



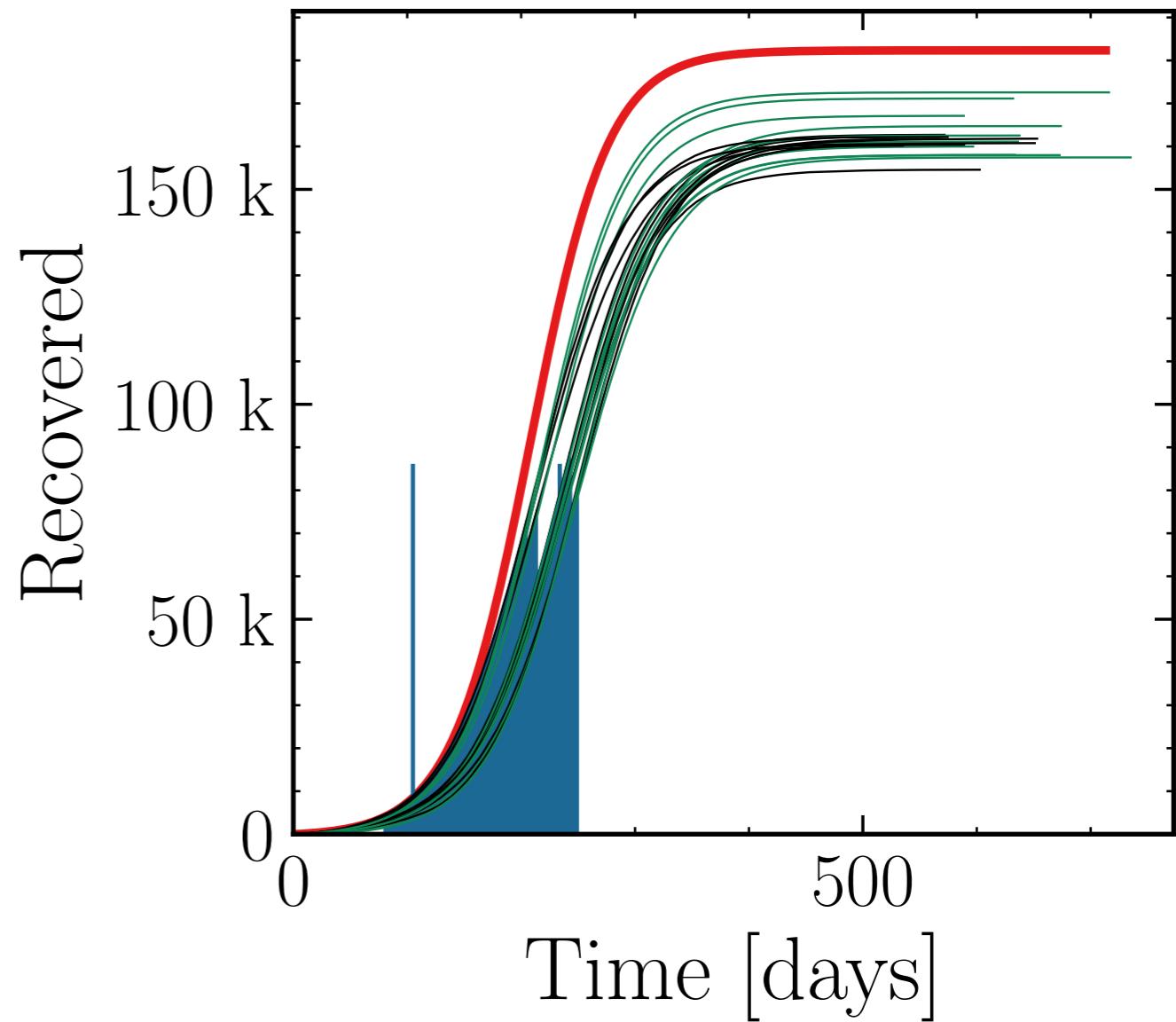
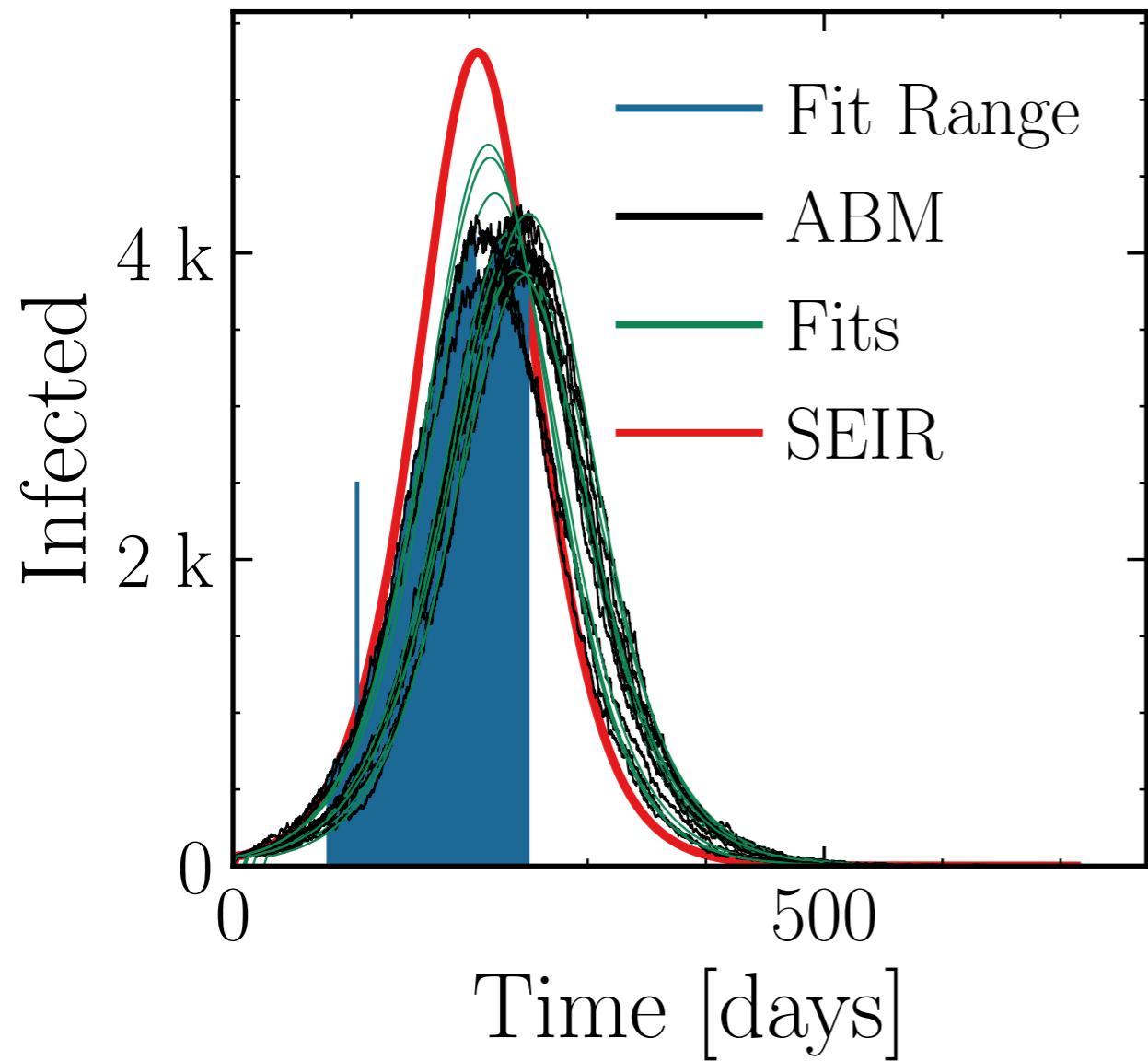
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 41^{+5}_{-2} \cdot 10^2$$

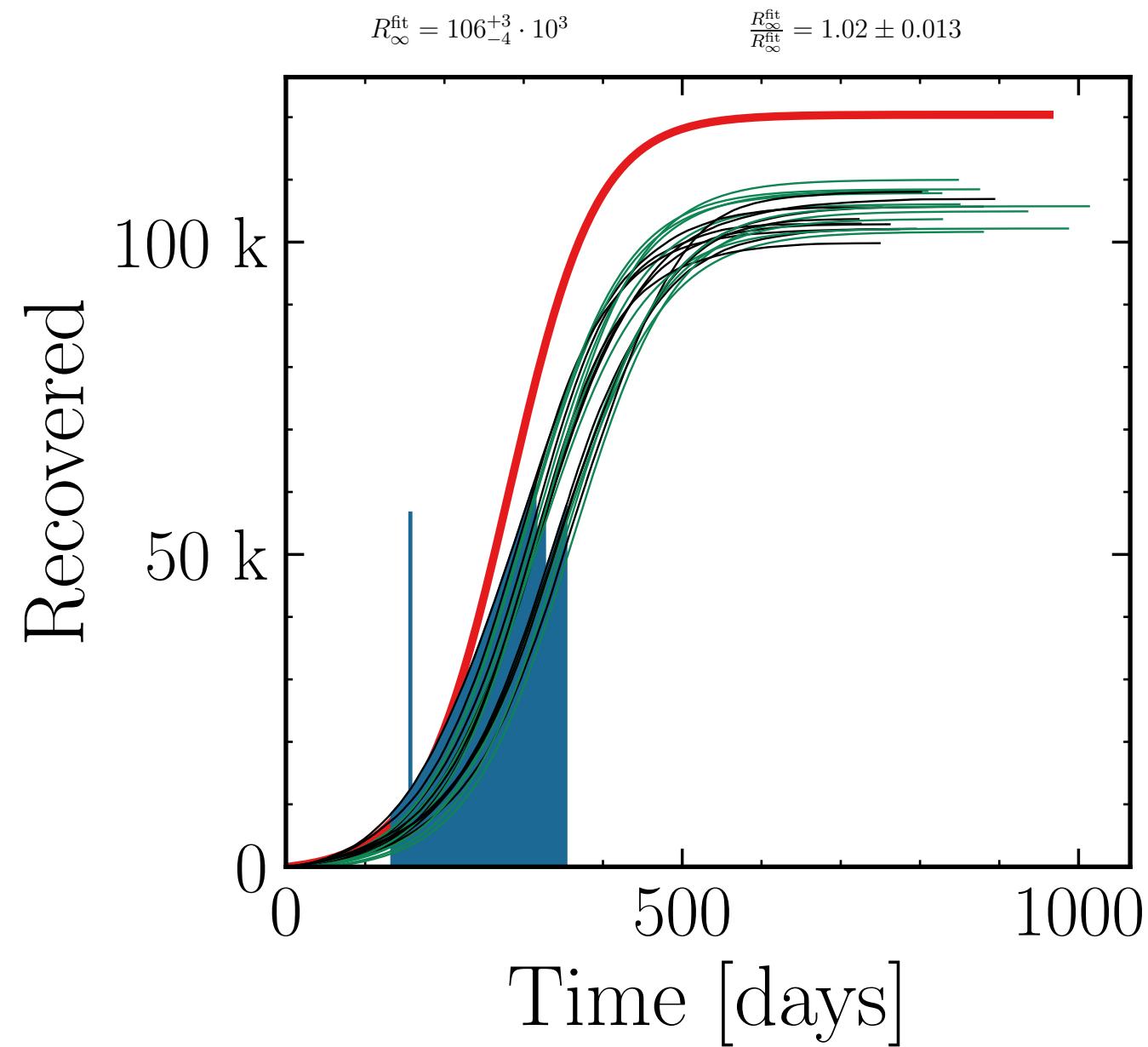
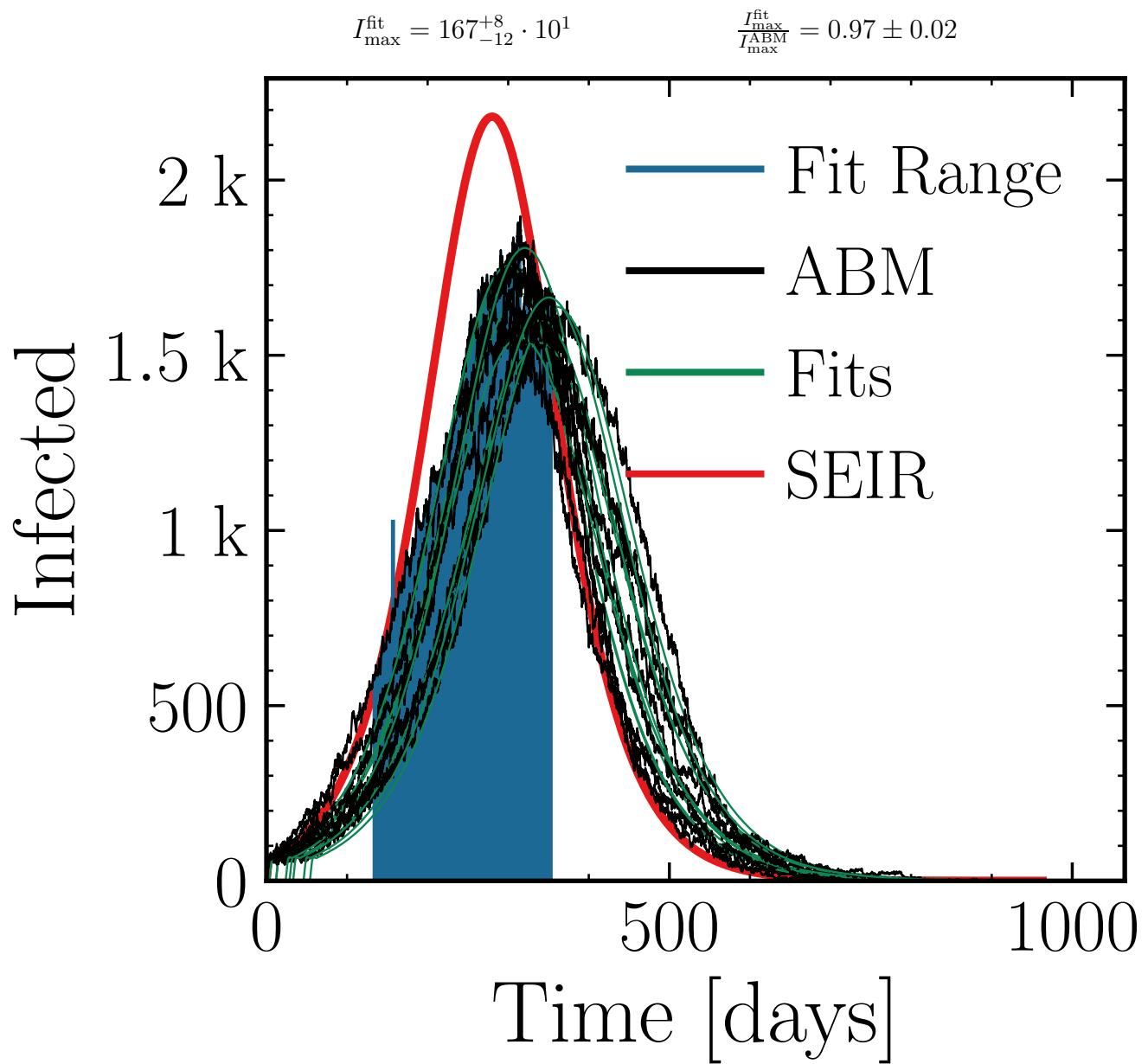
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.021$$

$$R_{\infty}^{\text{fit}} = 162^{+9}_{-4} \cdot 10^3$$

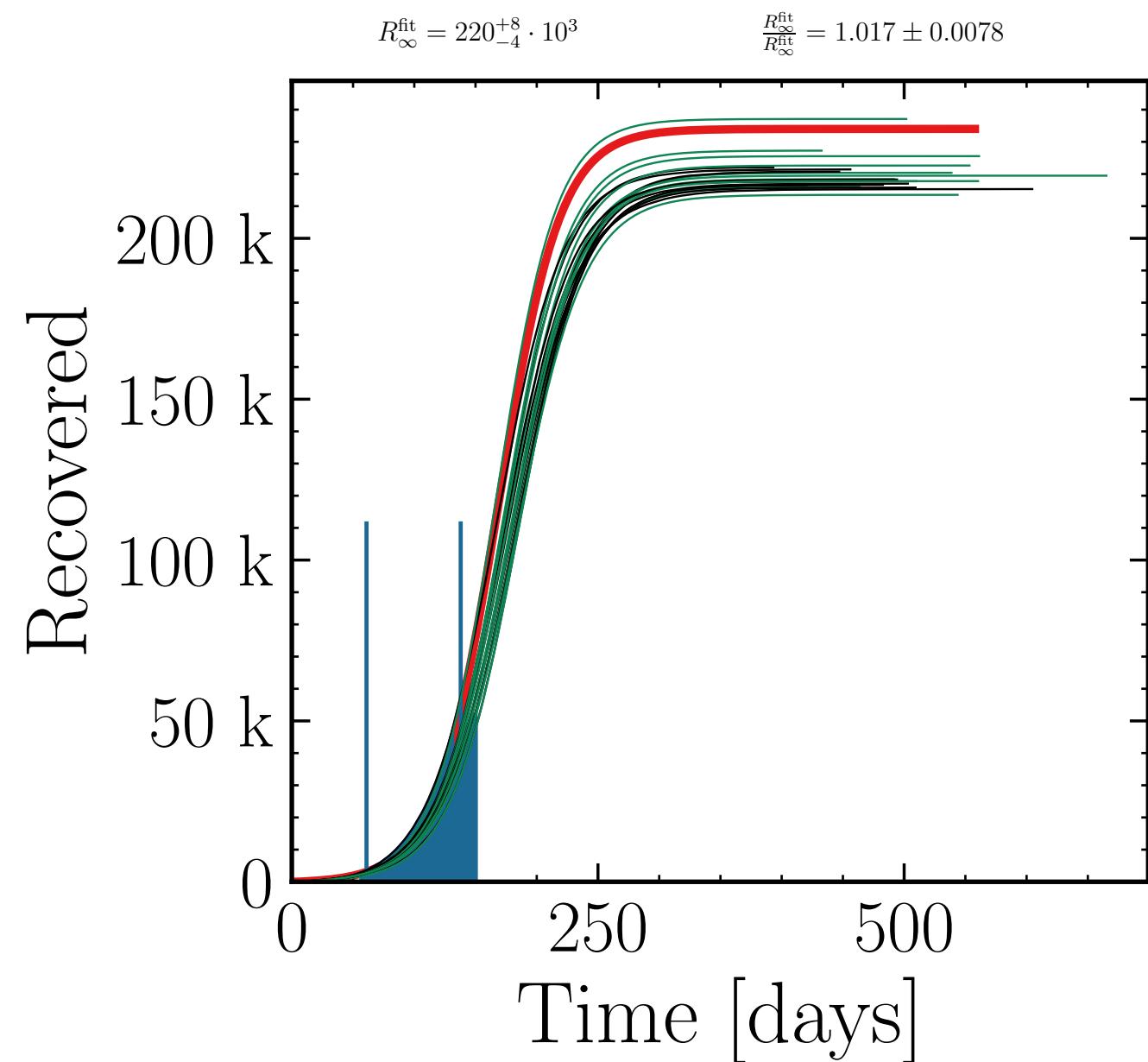
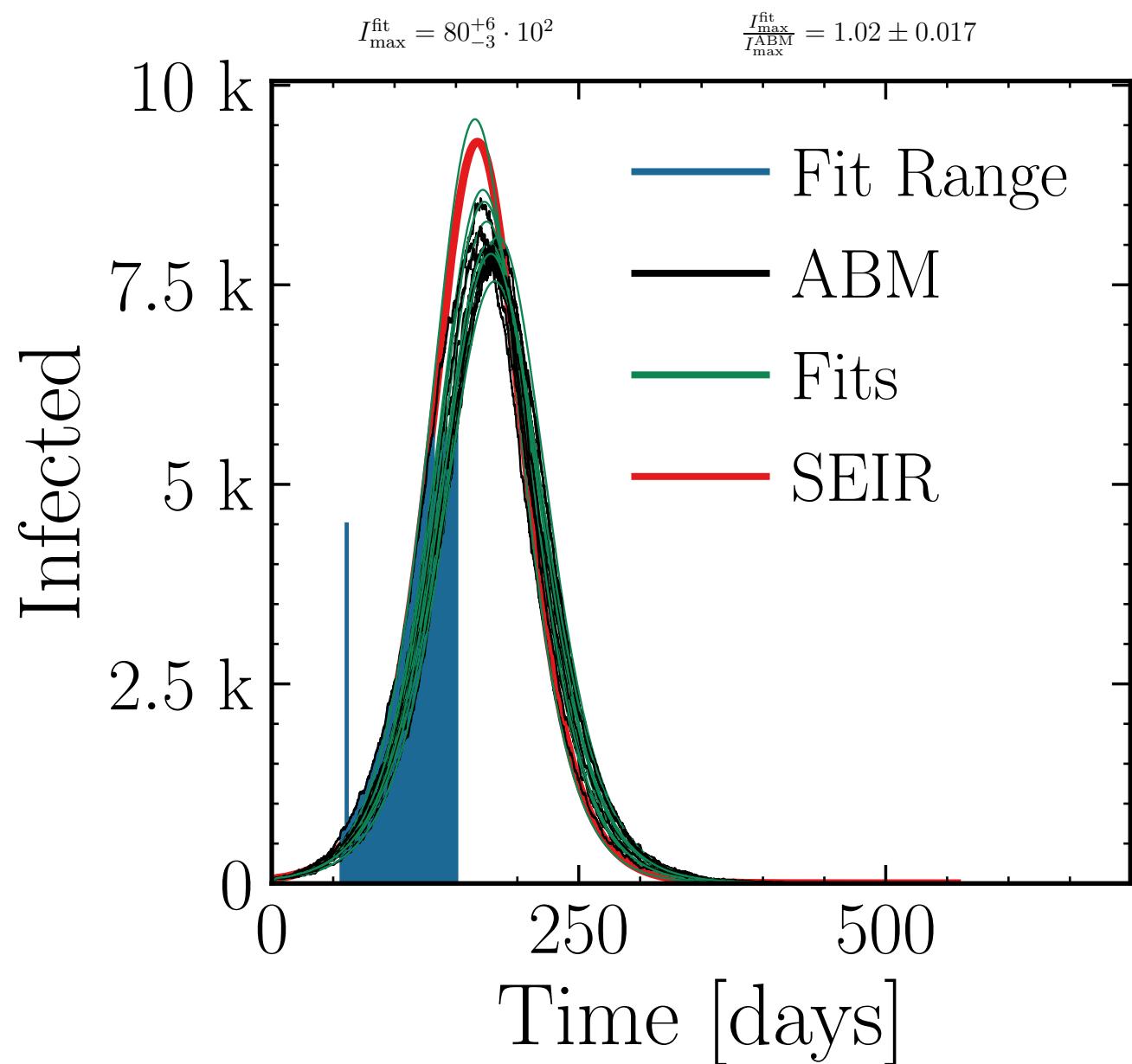
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.02 \pm 0.010$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.007$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.008$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



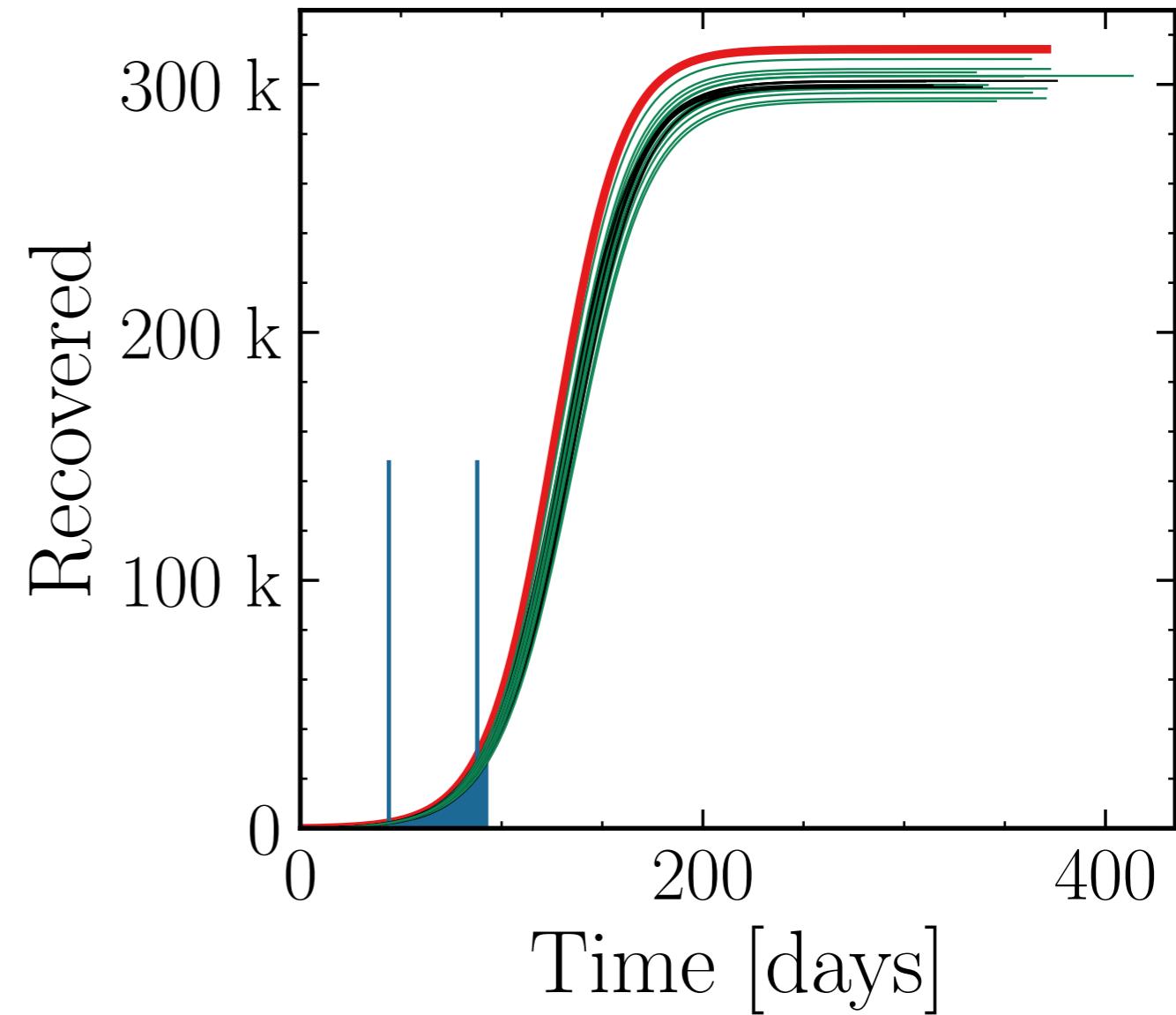
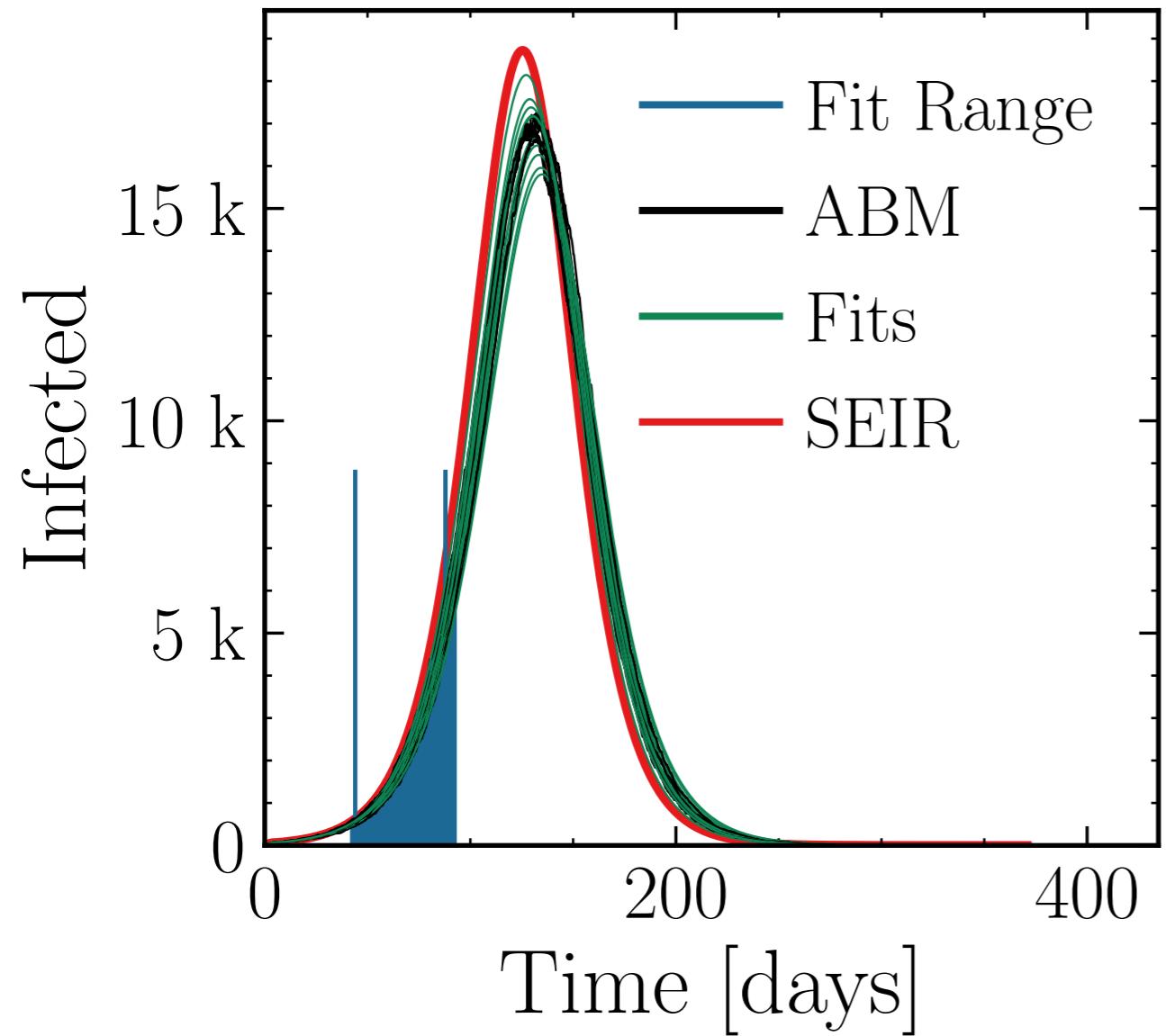
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.009$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 168^{+7}_{-9} \cdot 10^2$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.99 \pm 0.01$$

$$R_{\infty}^{\text{fit}} = 301^{+5}_{-6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.003 \pm 0.0054$$



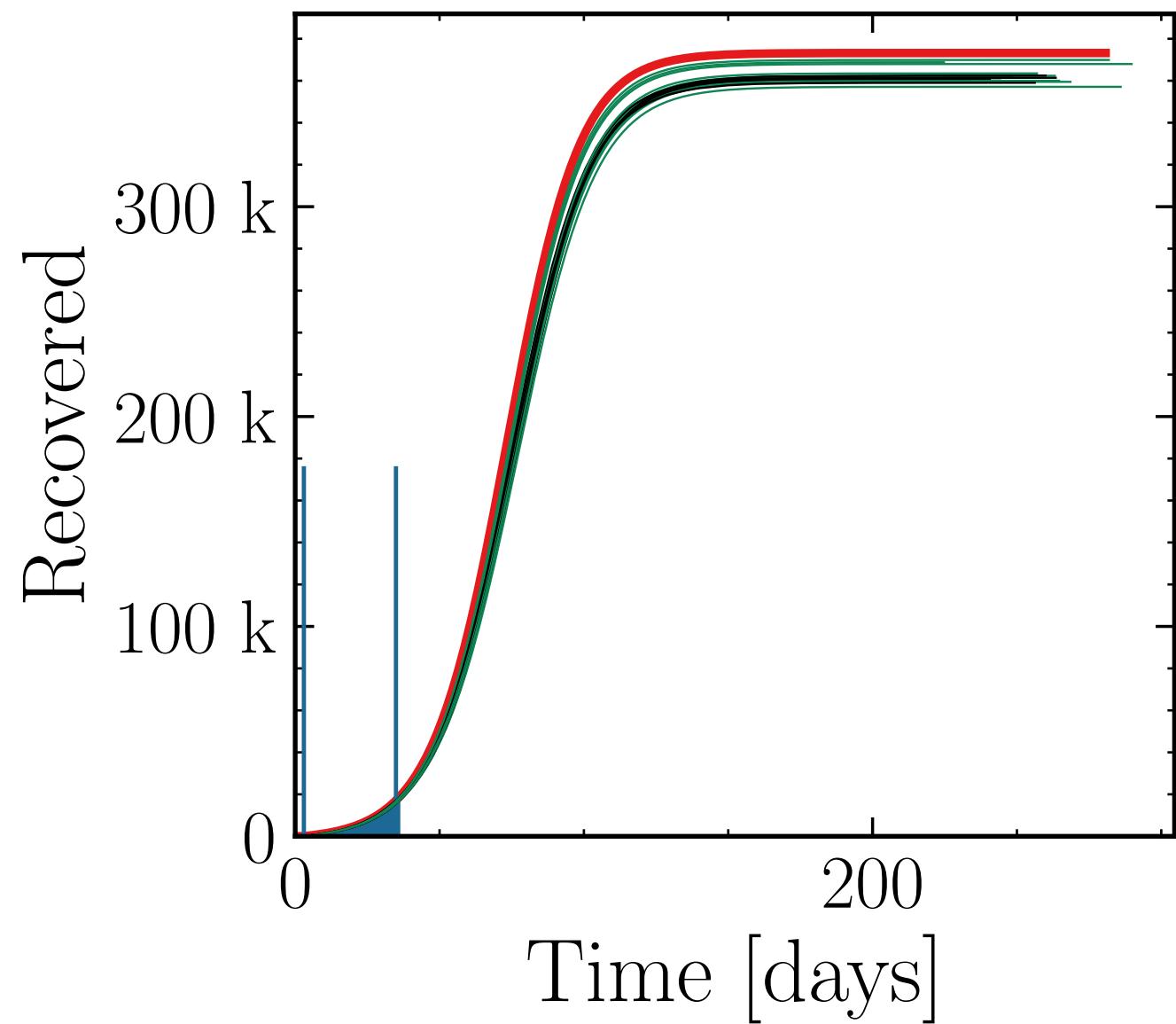
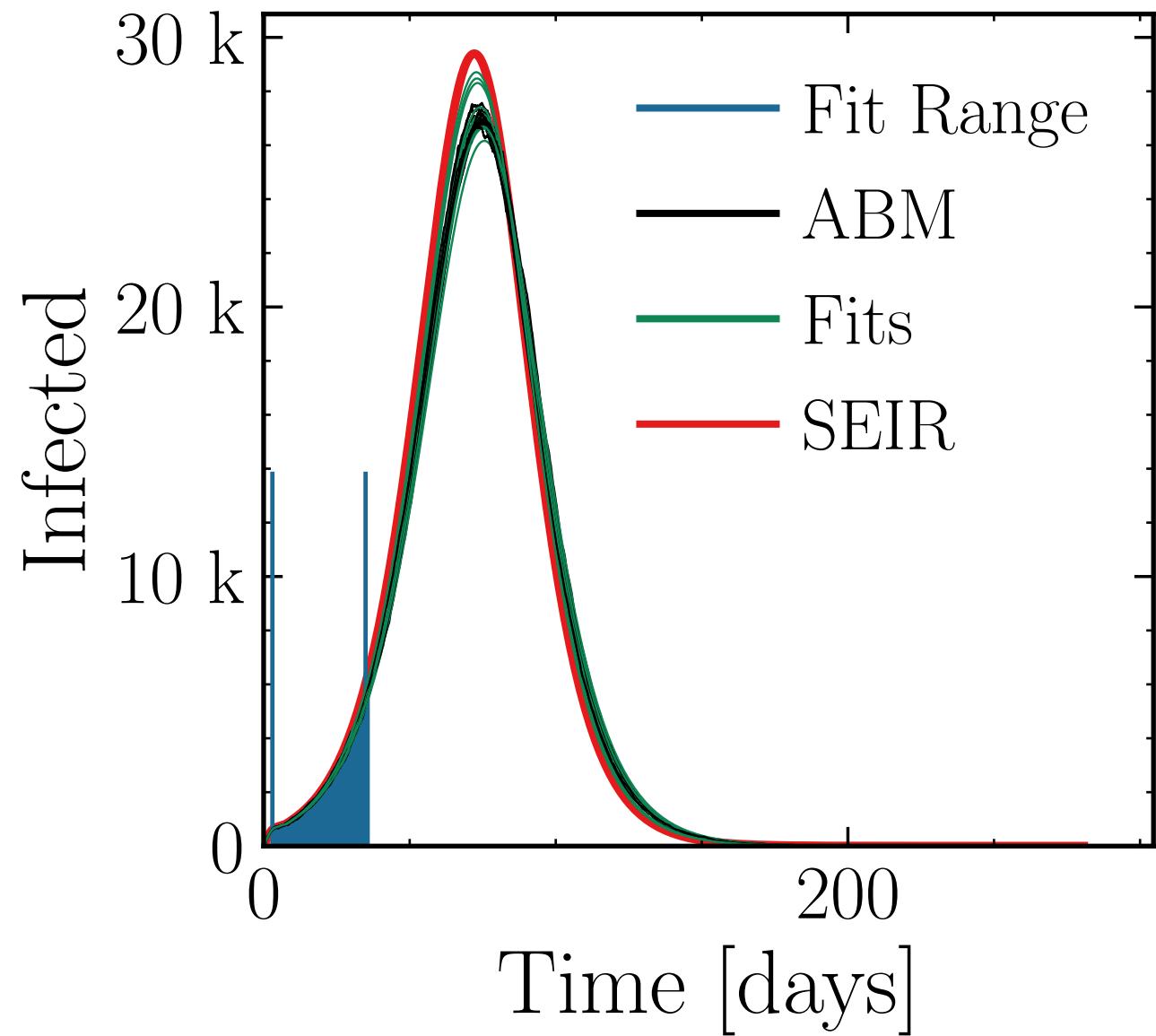
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 1K$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 27.1^{+1.4}_{-0.5} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.011$$

$$R_{\infty}^{\text{fit}} = 362^{+7}_{-3} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.006 \pm 0.0041$$



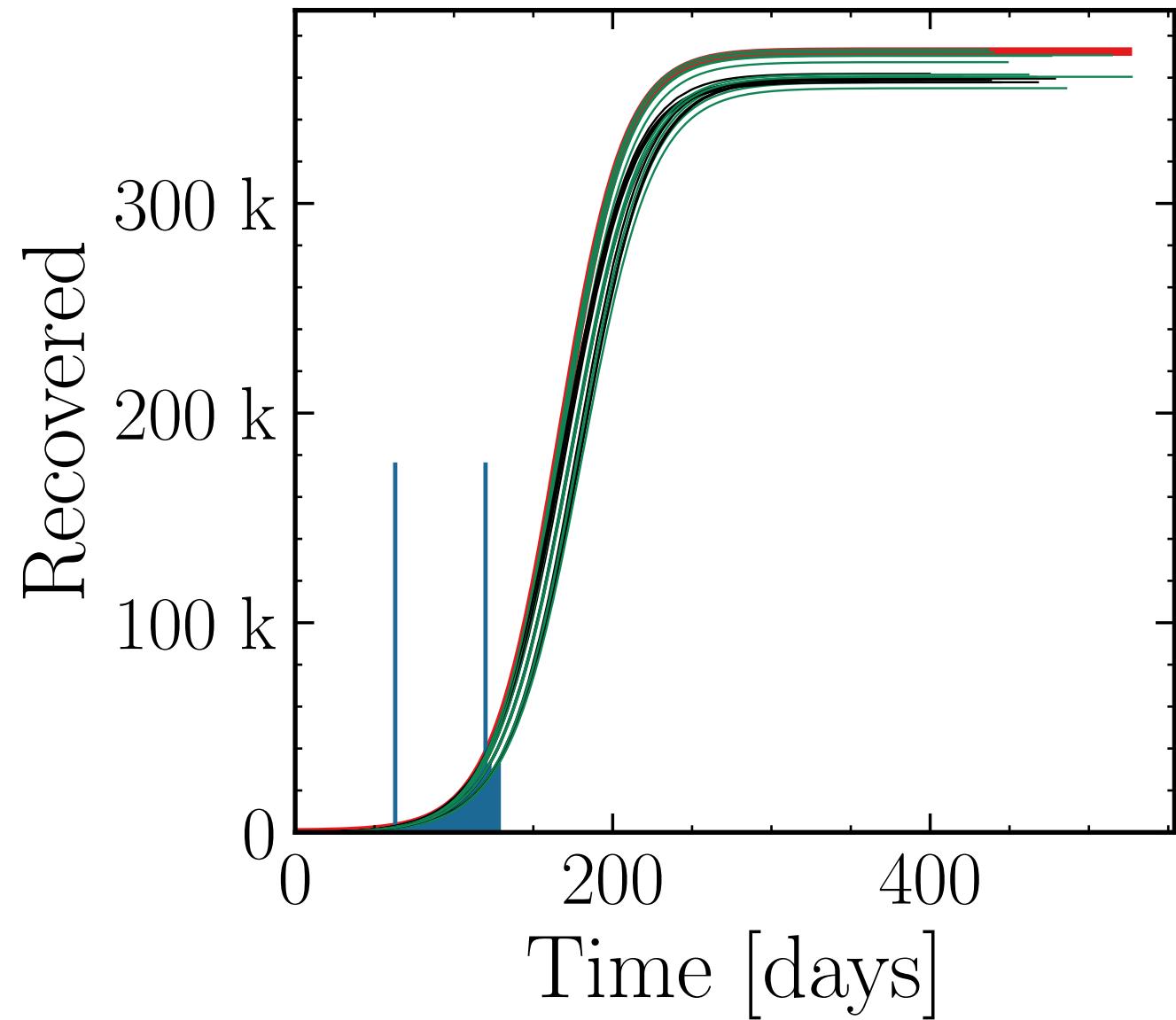
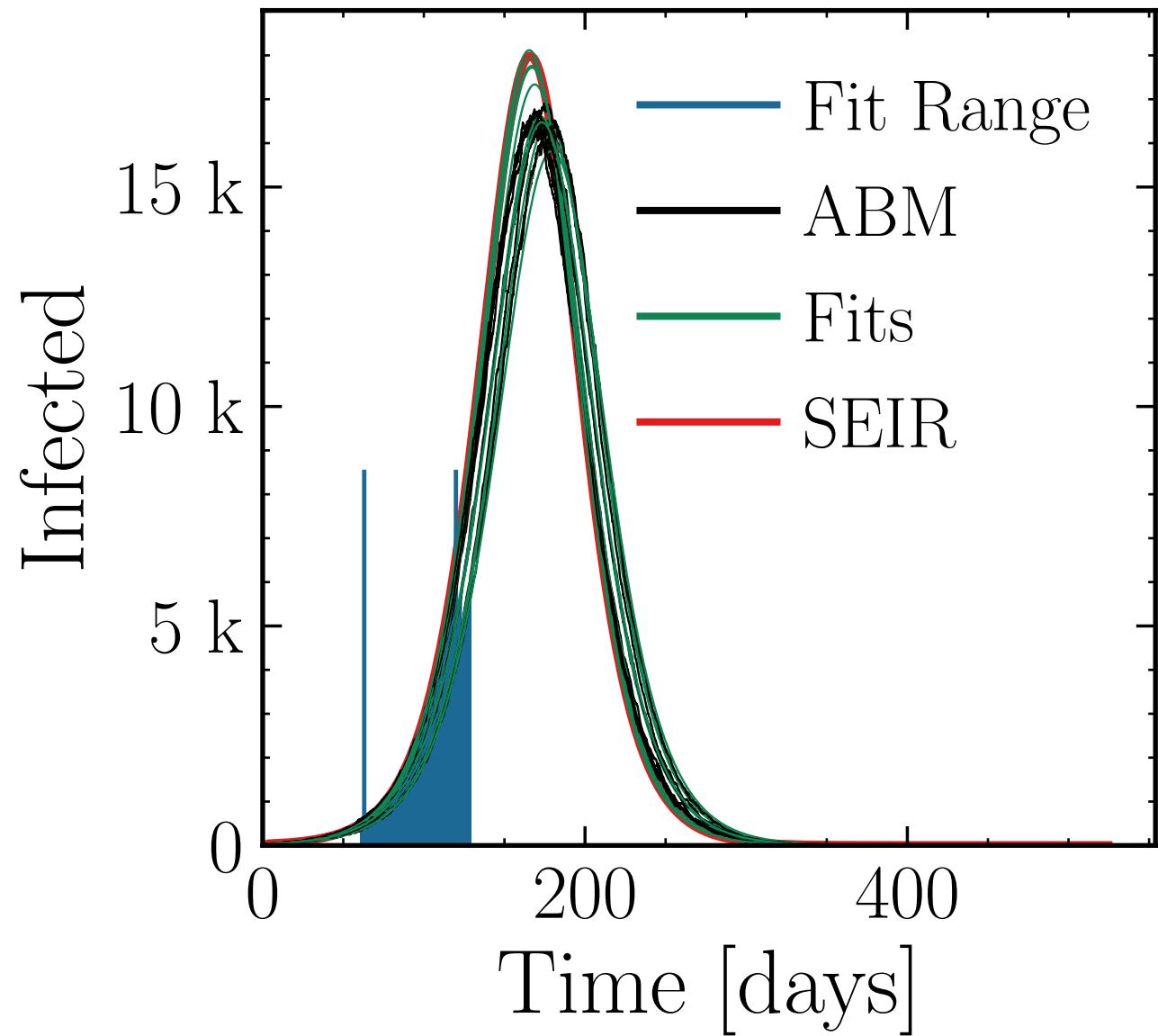
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 0.5$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 171^{+9}_{-9} \cdot 10^2$$

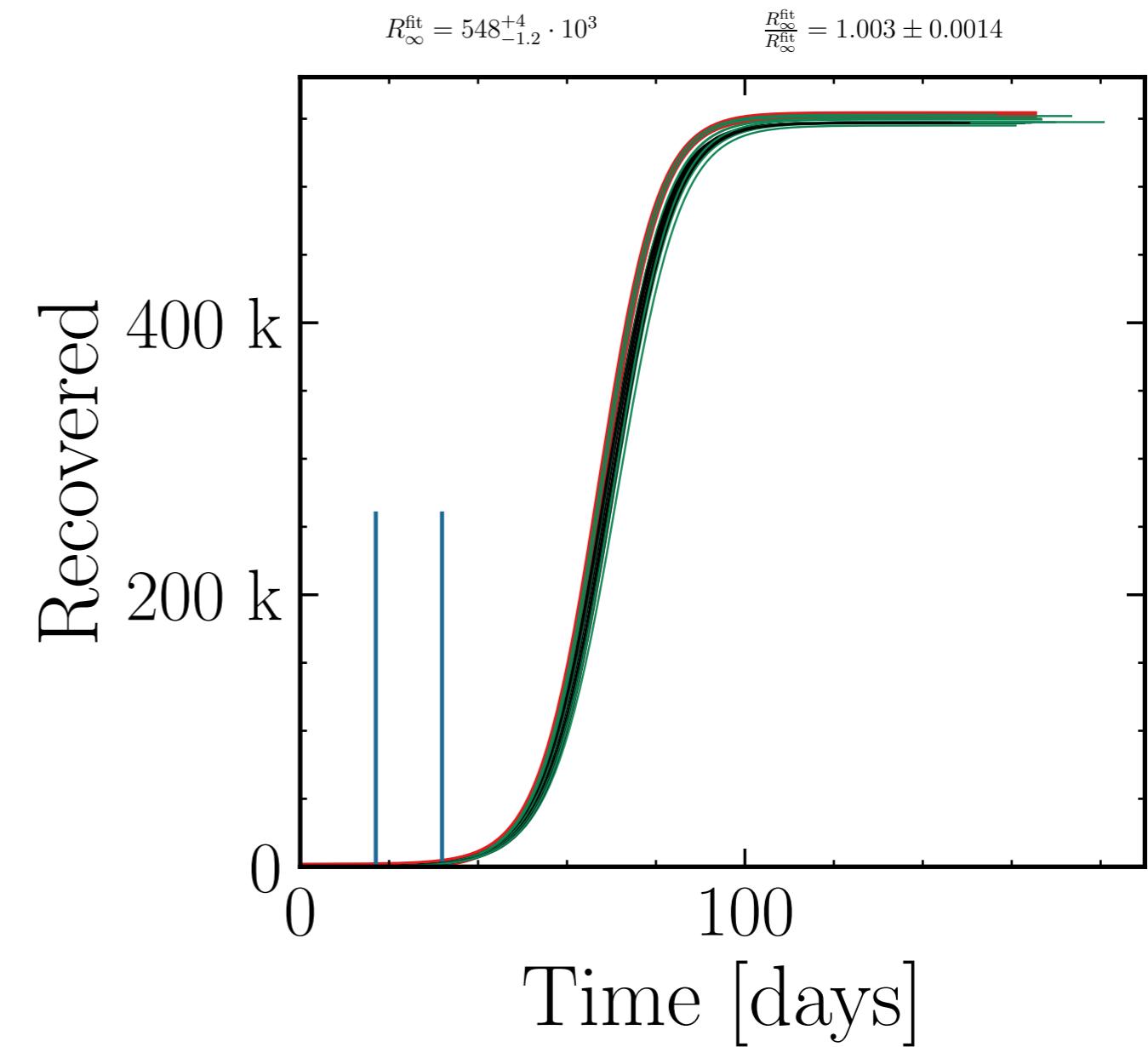
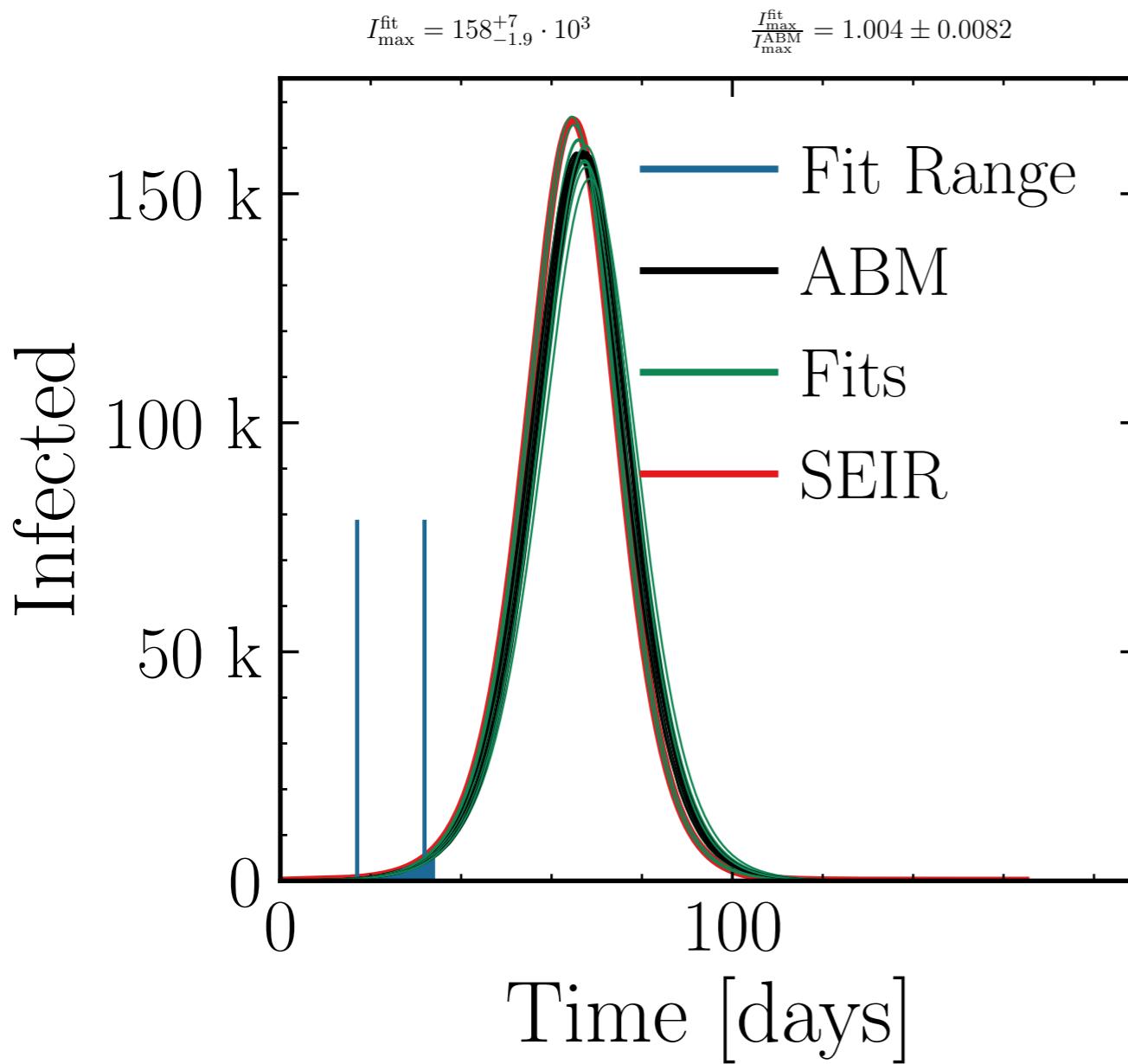
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.03 \pm 0.015$$

$$R_{\infty}^{\text{fit}} = 365^{+7}_{-7} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.015 \pm 0.0056$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 0.5$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



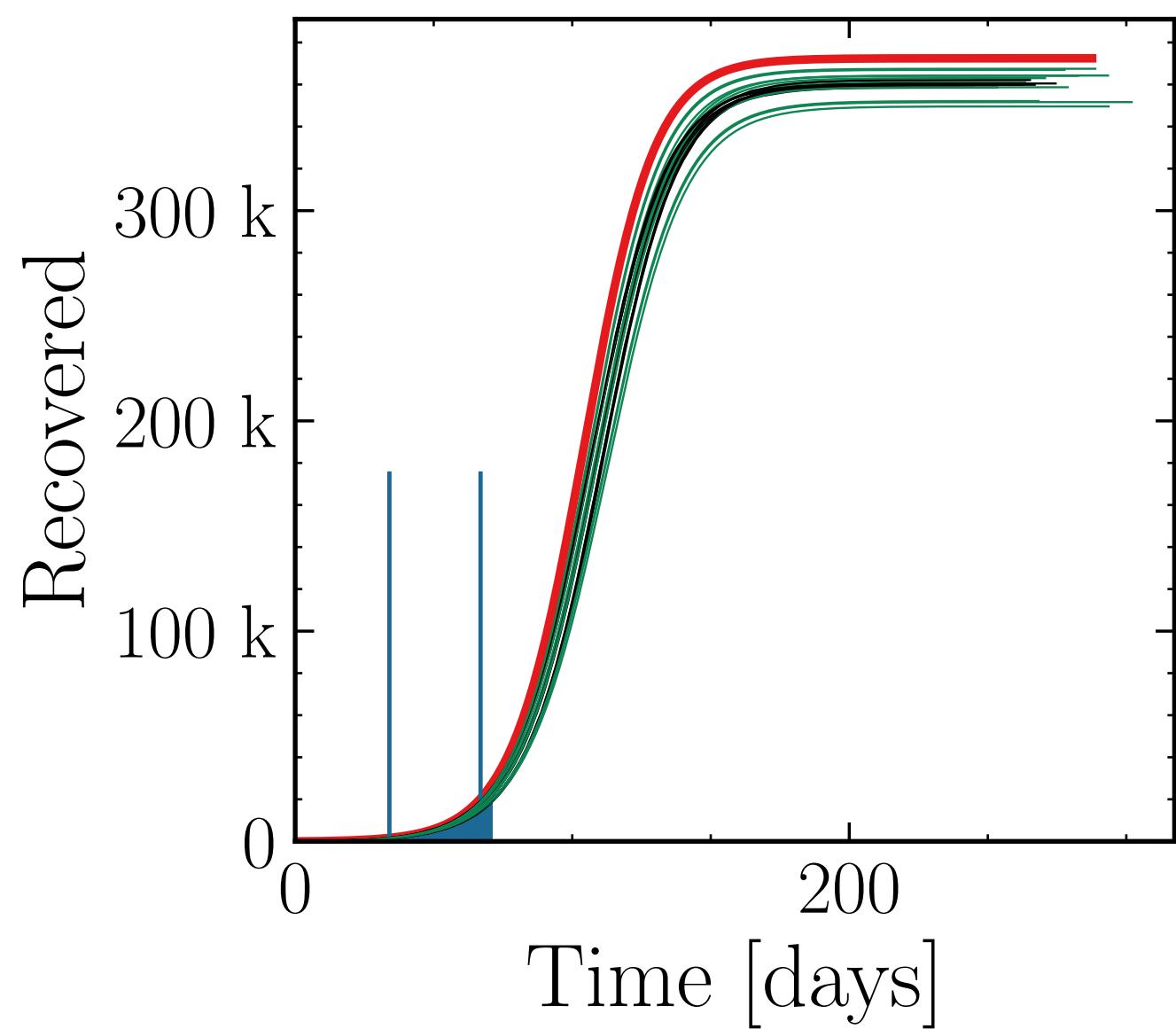
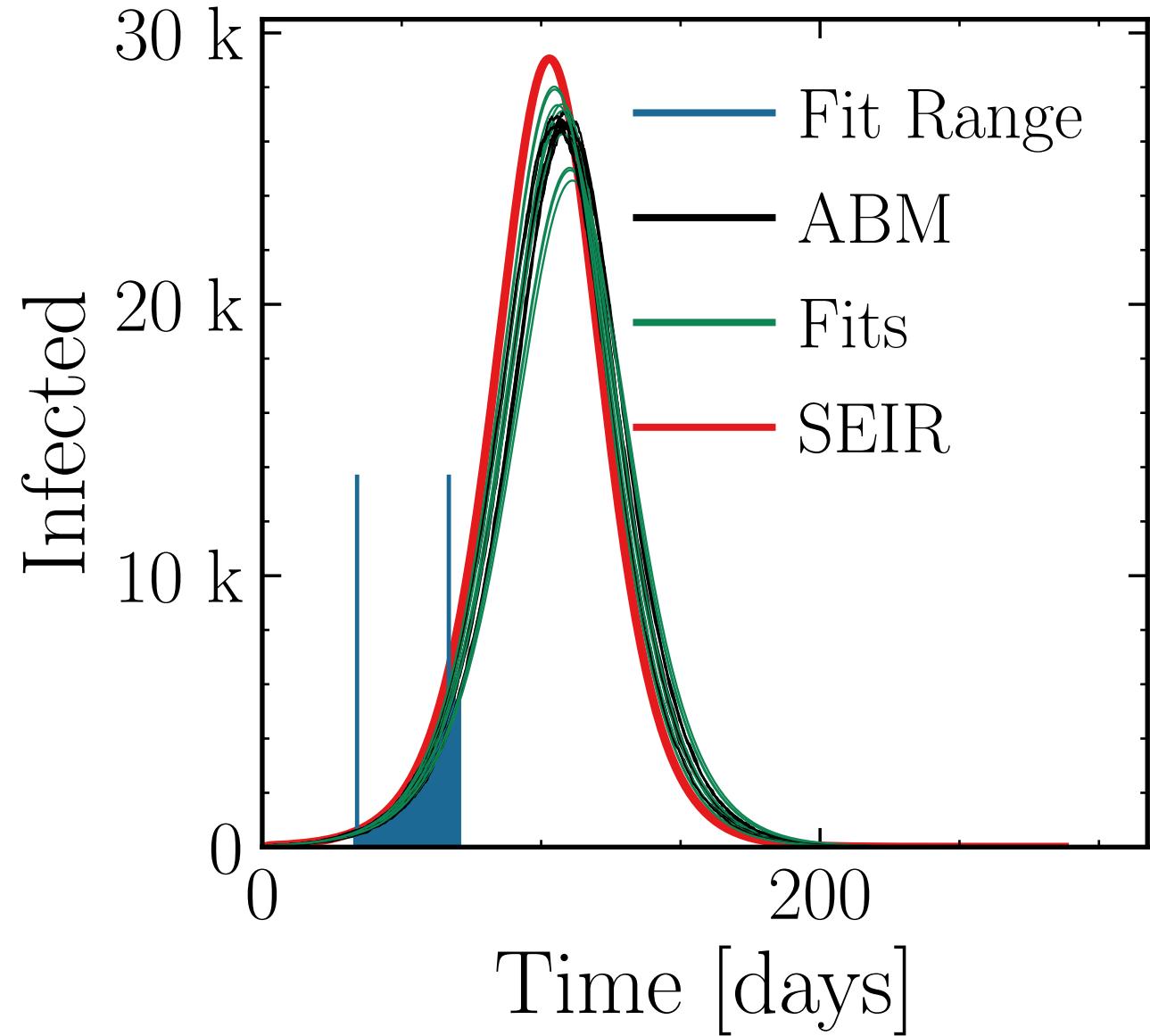
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 27^{+1.1}_{-1.8} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.99 \pm 0.01$$

$$R_{\infty}^{\text{fit}} = 361^{+6}_{-10} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 0.999 \pm 0.005$$



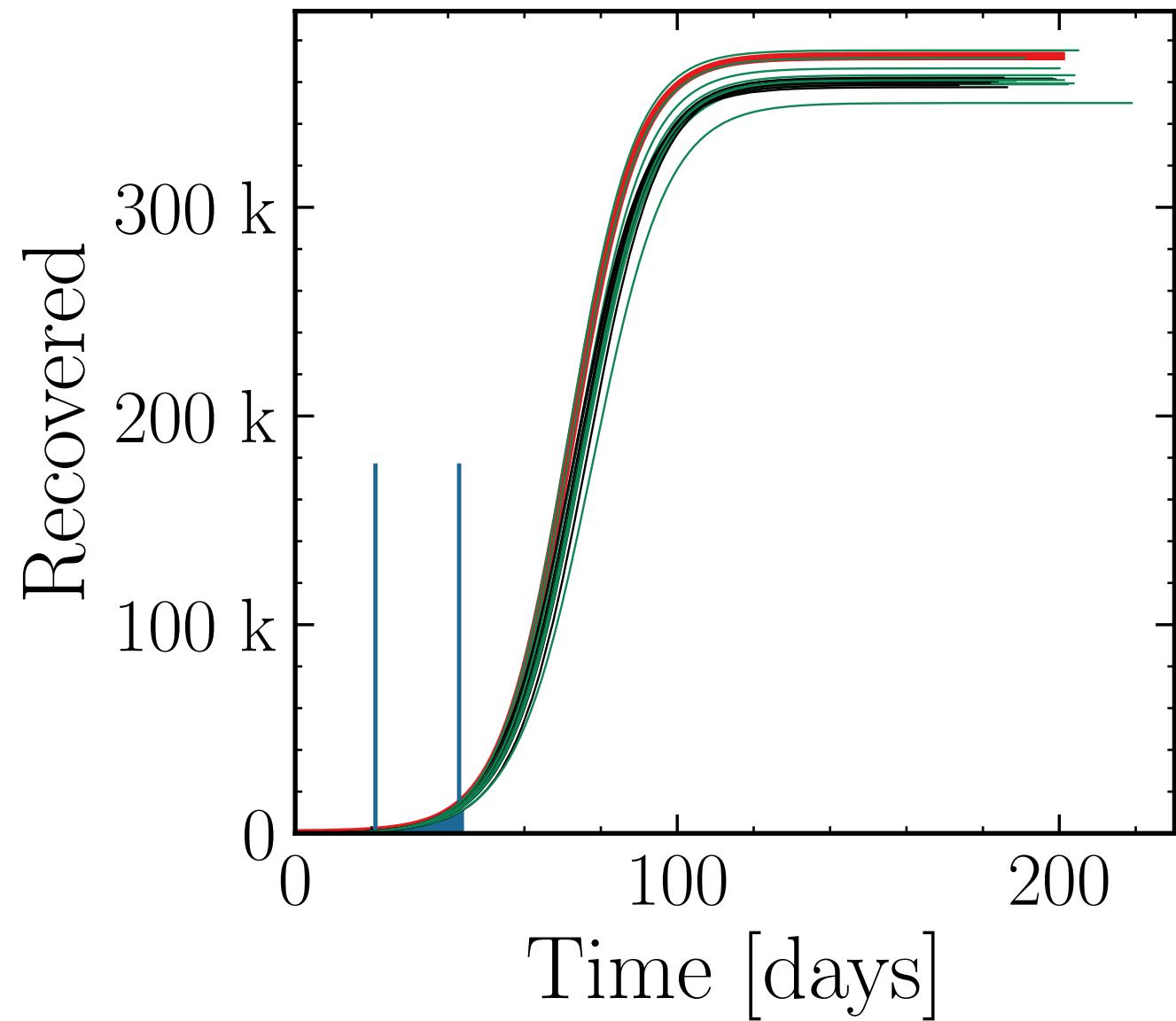
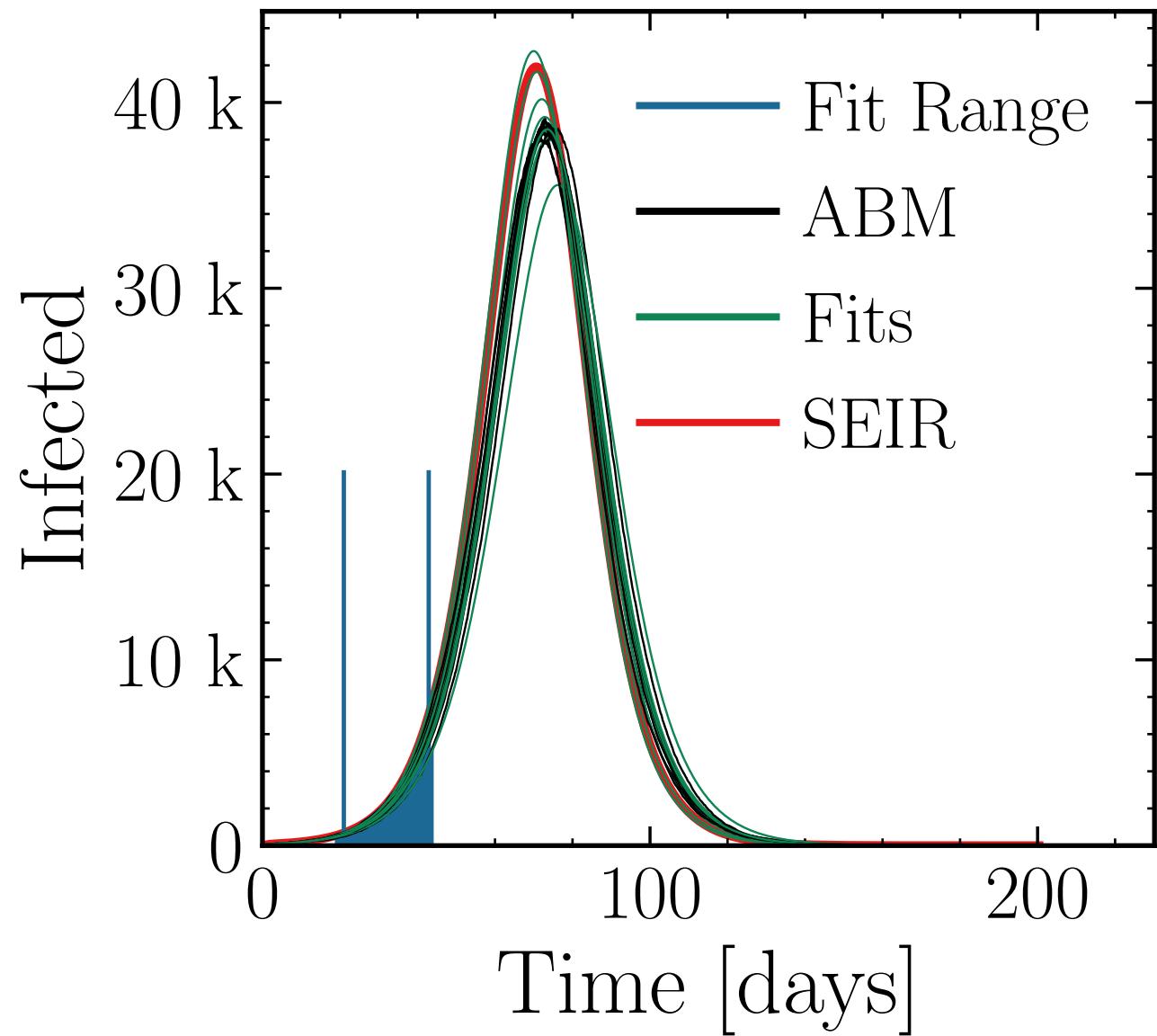
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 2.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 38.7^{+3}_{-0.7} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.018$$

$$R_{\infty}^{\text{fit}} = 36.1^{+1.0}_{-0.2} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.008 \pm 0.0067$$



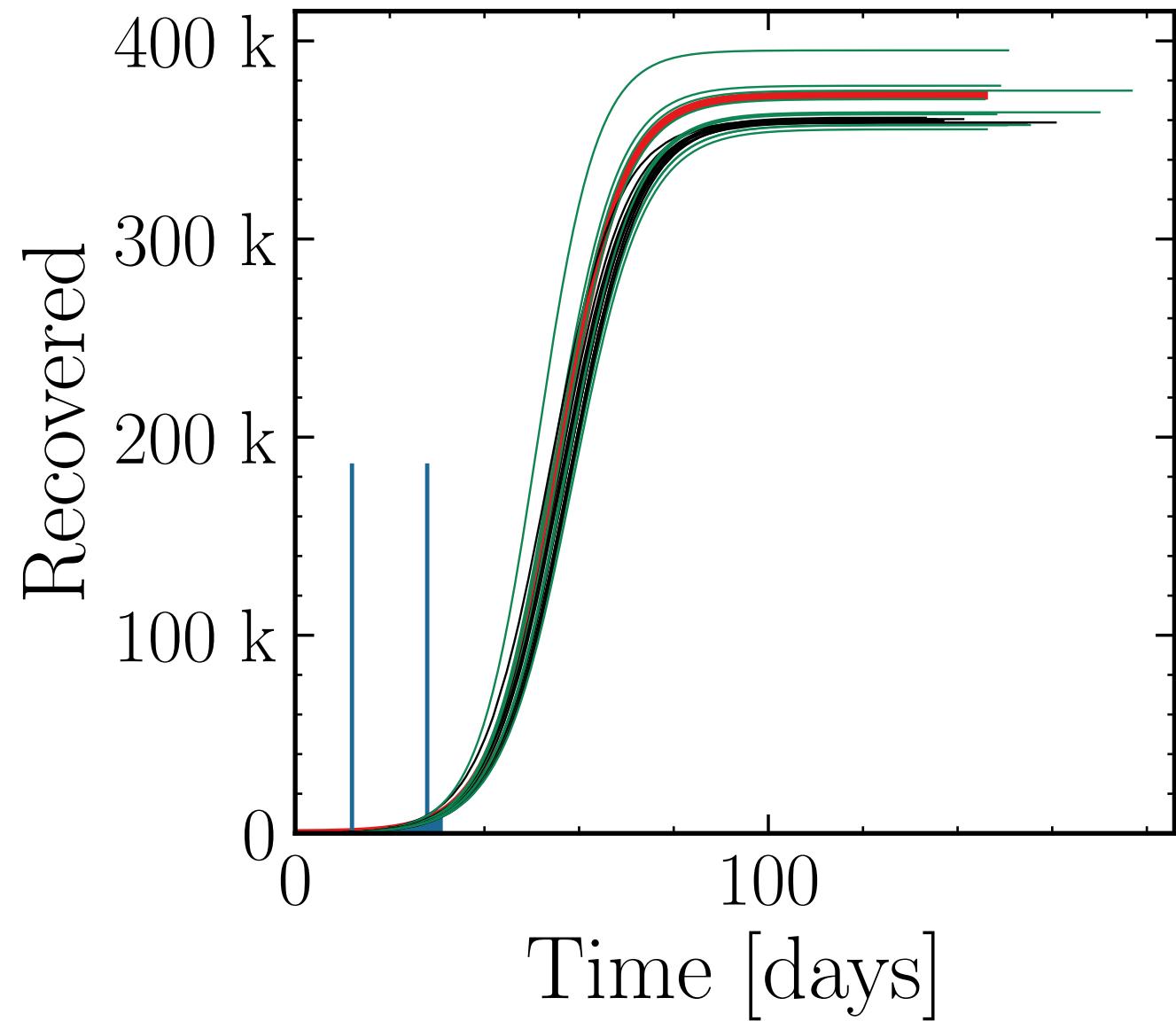
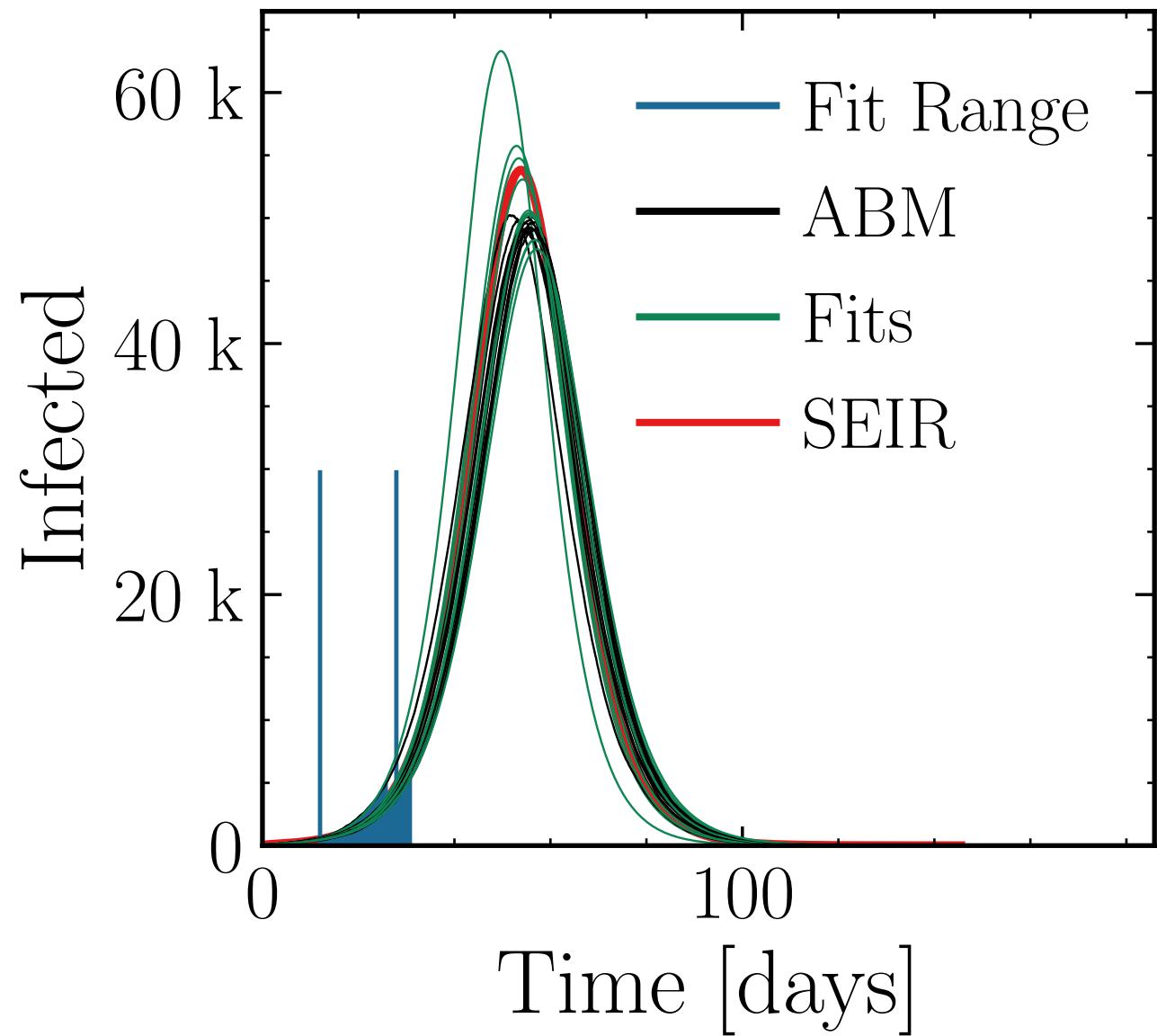
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 4.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 50_{-2}^{+5} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.05 \pm 0.028$$

$$R_{\infty}^{\text{fit}} = 36.4_{-0.6}^{+1.4} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.02 \pm 0.010$$



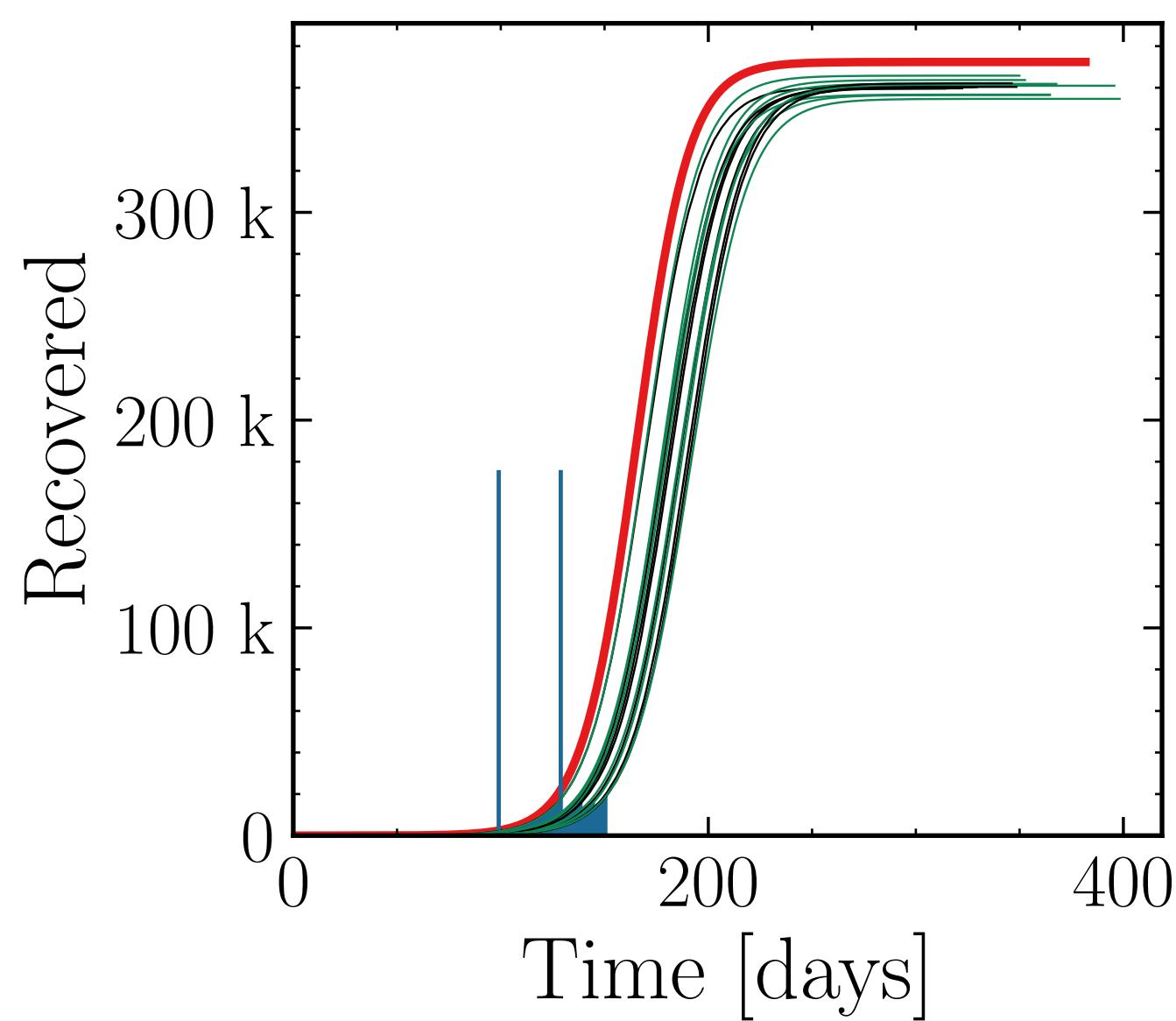
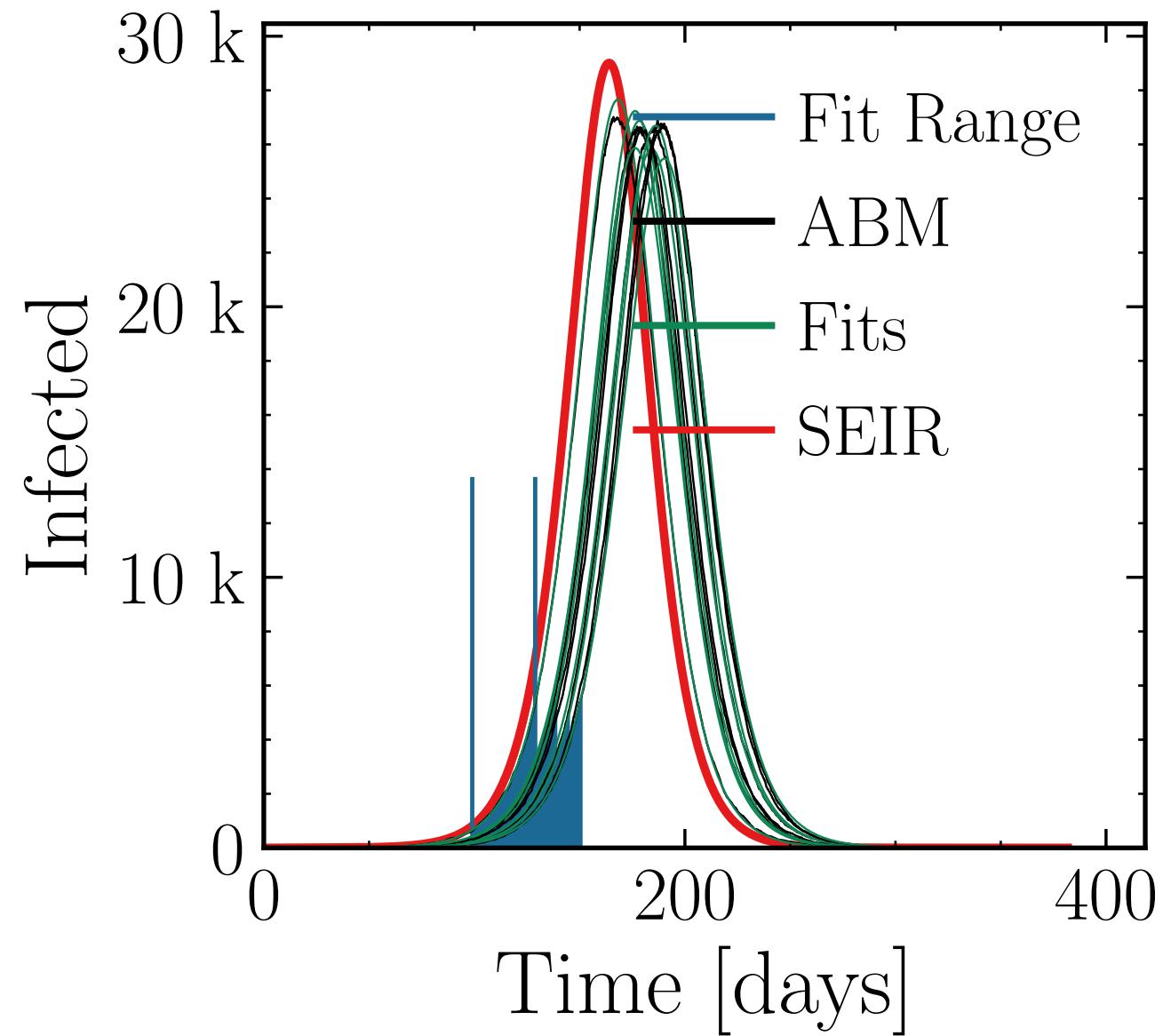
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 1$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #7

$$I_{\max}^{\text{fit}} = 266_{-10}^{+9} \cdot 10^2$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.992 \pm 0.010$$

$$R_{\infty}^{\text{fit}} = 361_{-5}^{+4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{true}}} = 0.999 \pm 0.004$$



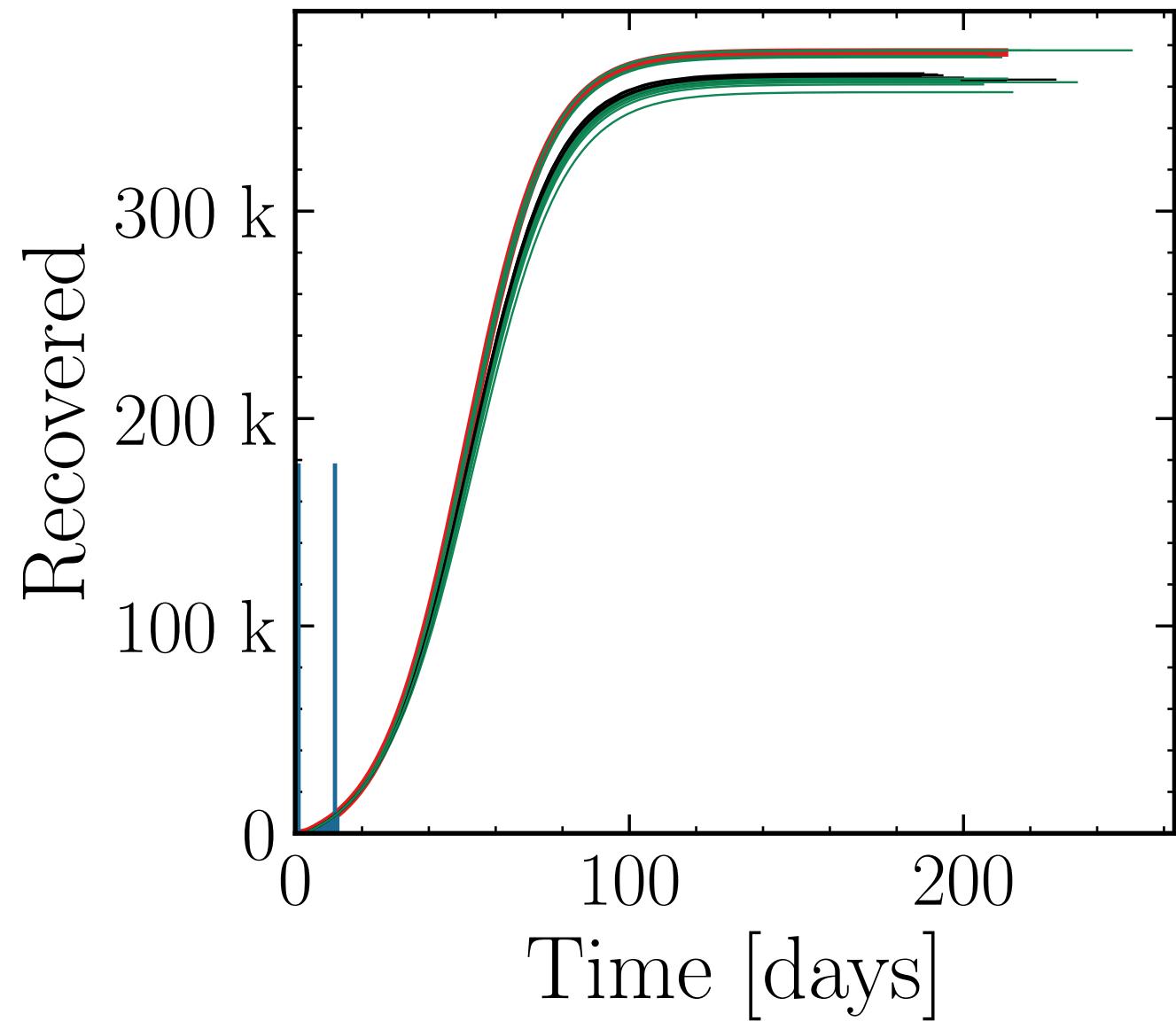
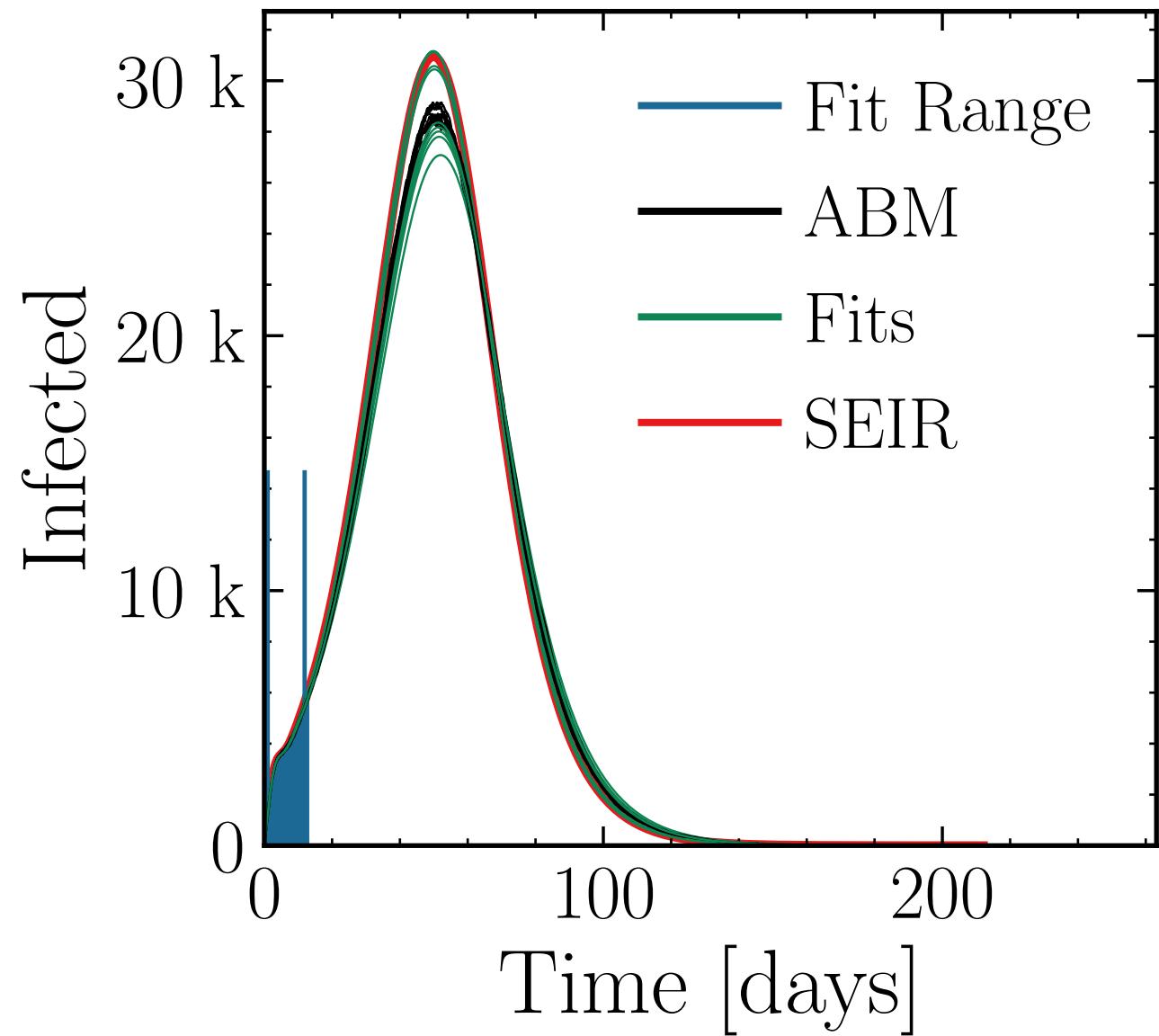
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 5K$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 29^{+1.8}_{-1.9} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.02 \pm 0.017$$

$$R_{\infty}^{\text{fit}} = 369^{+9}_{-9} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.012 \pm 0.0066$$



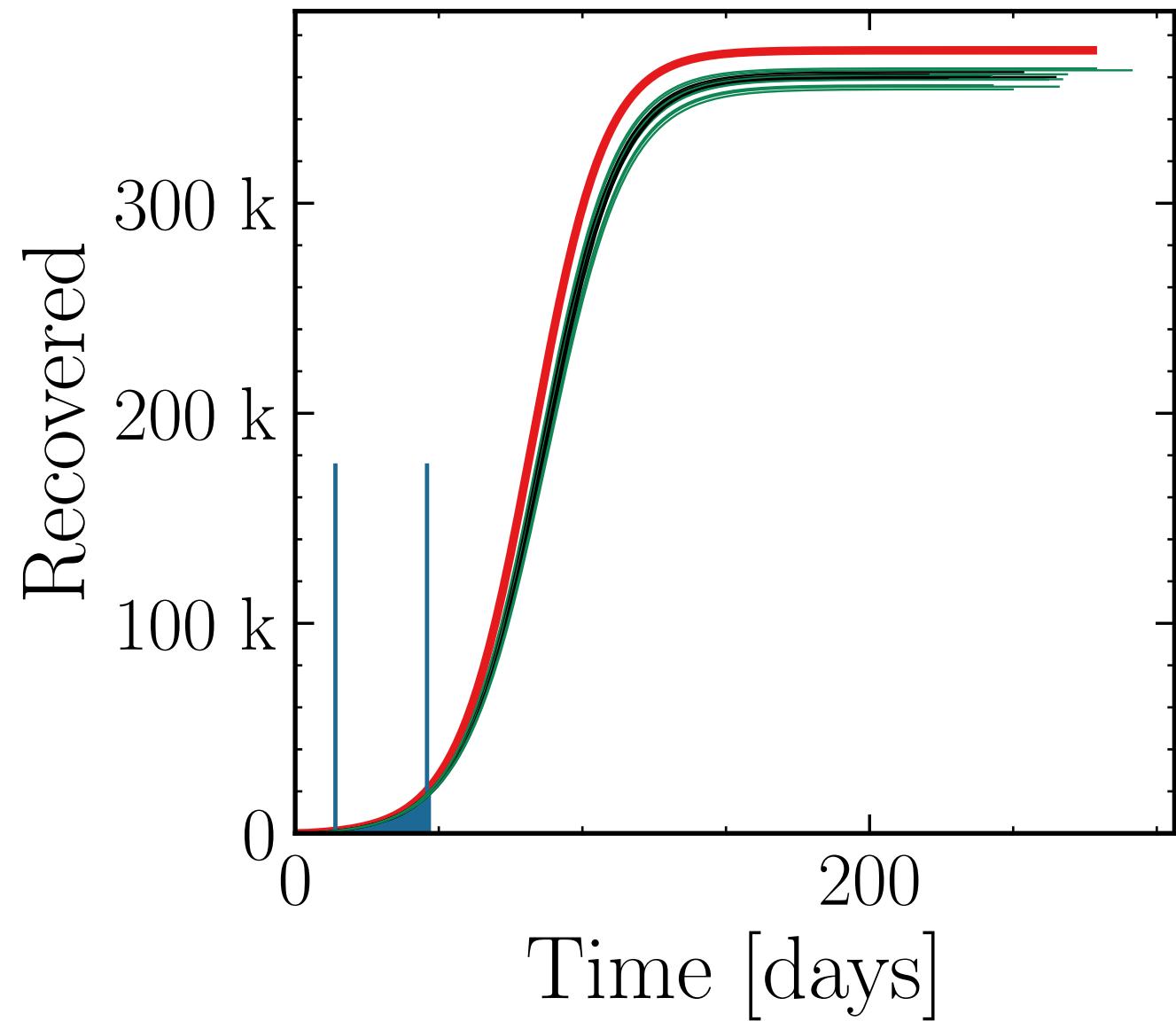
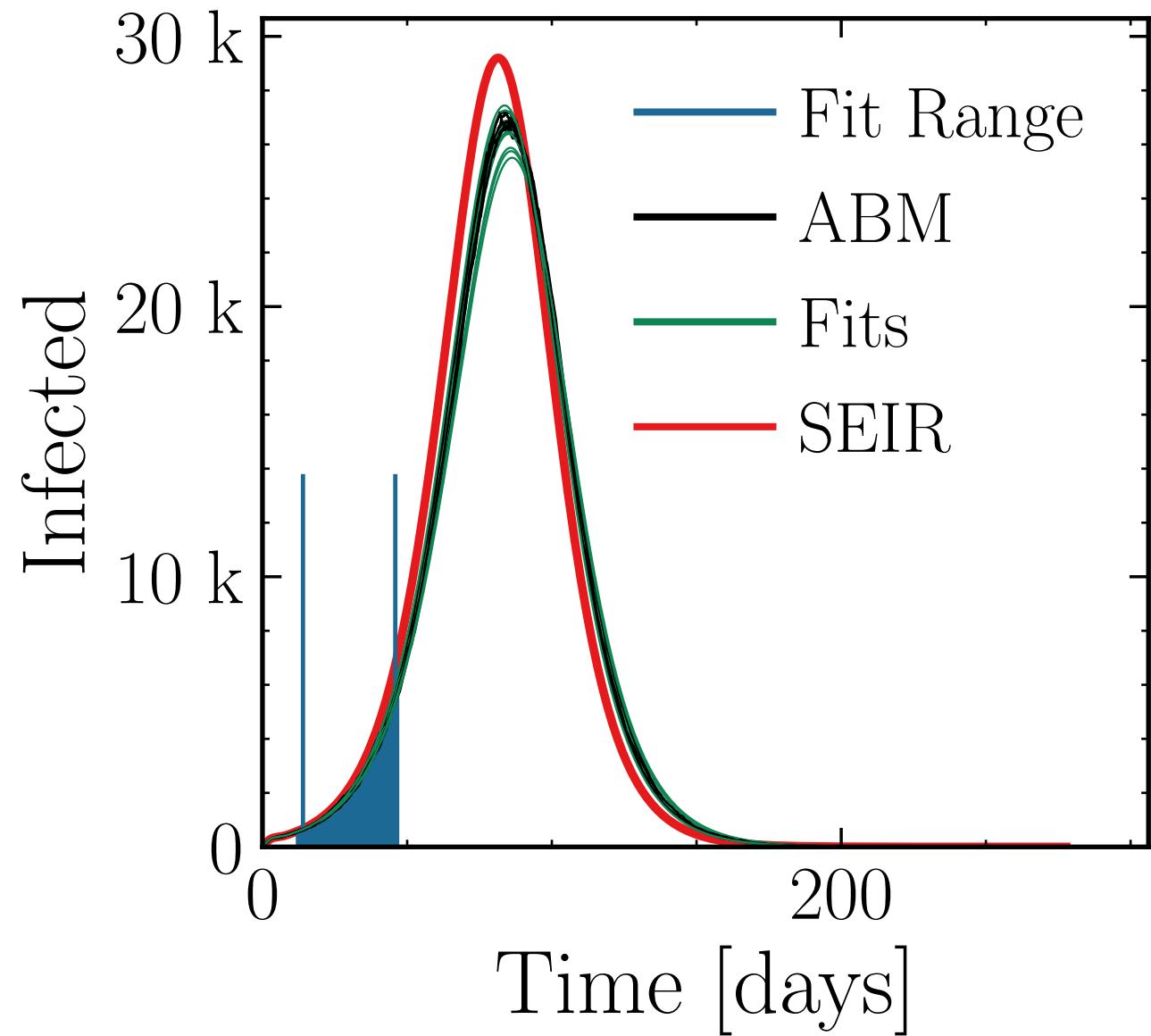
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 500$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 265^{+8}_{-7} \cdot 10^2$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.985 \pm 0.007$$

$$R_{\infty}^{\text{fit}} = 359^{+4}_{-4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 0.997 \pm 0.003$$



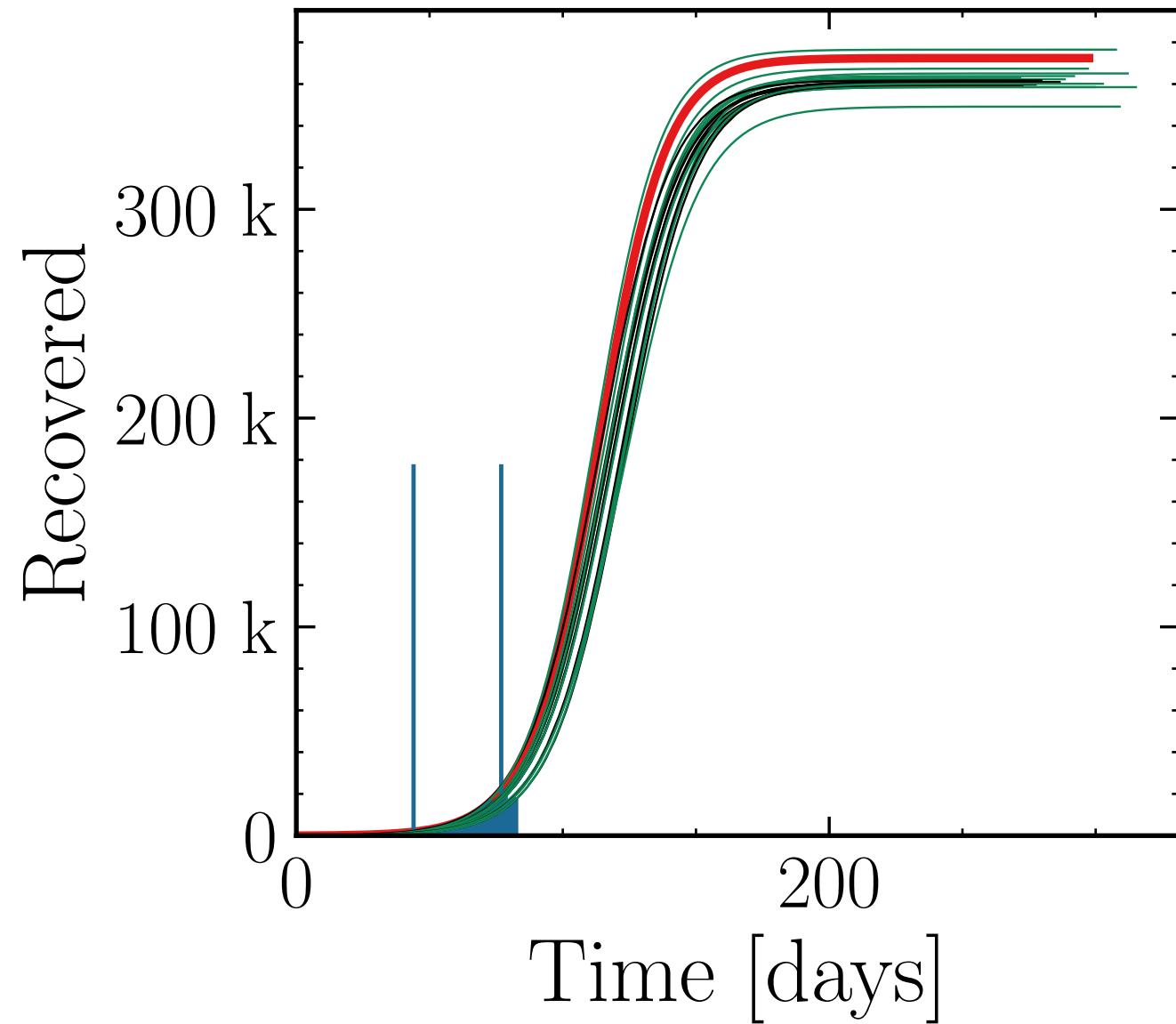
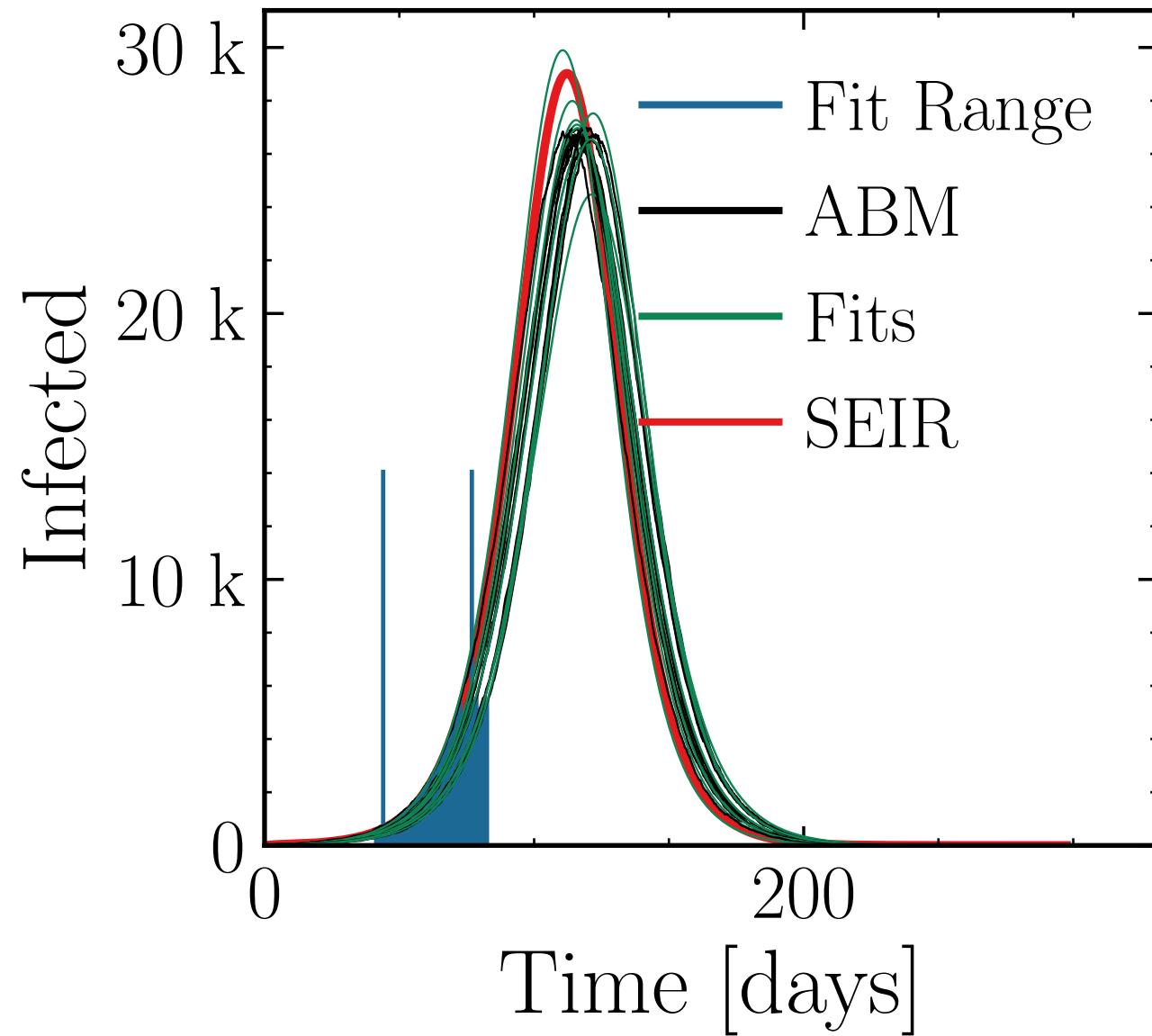
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 50$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 270^{+10}_{-8} \cdot 10^2$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.016$$

$$R_{\infty}^{\text{fit}} = 363^{+5}_{-4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.006 \pm 0.0056$$



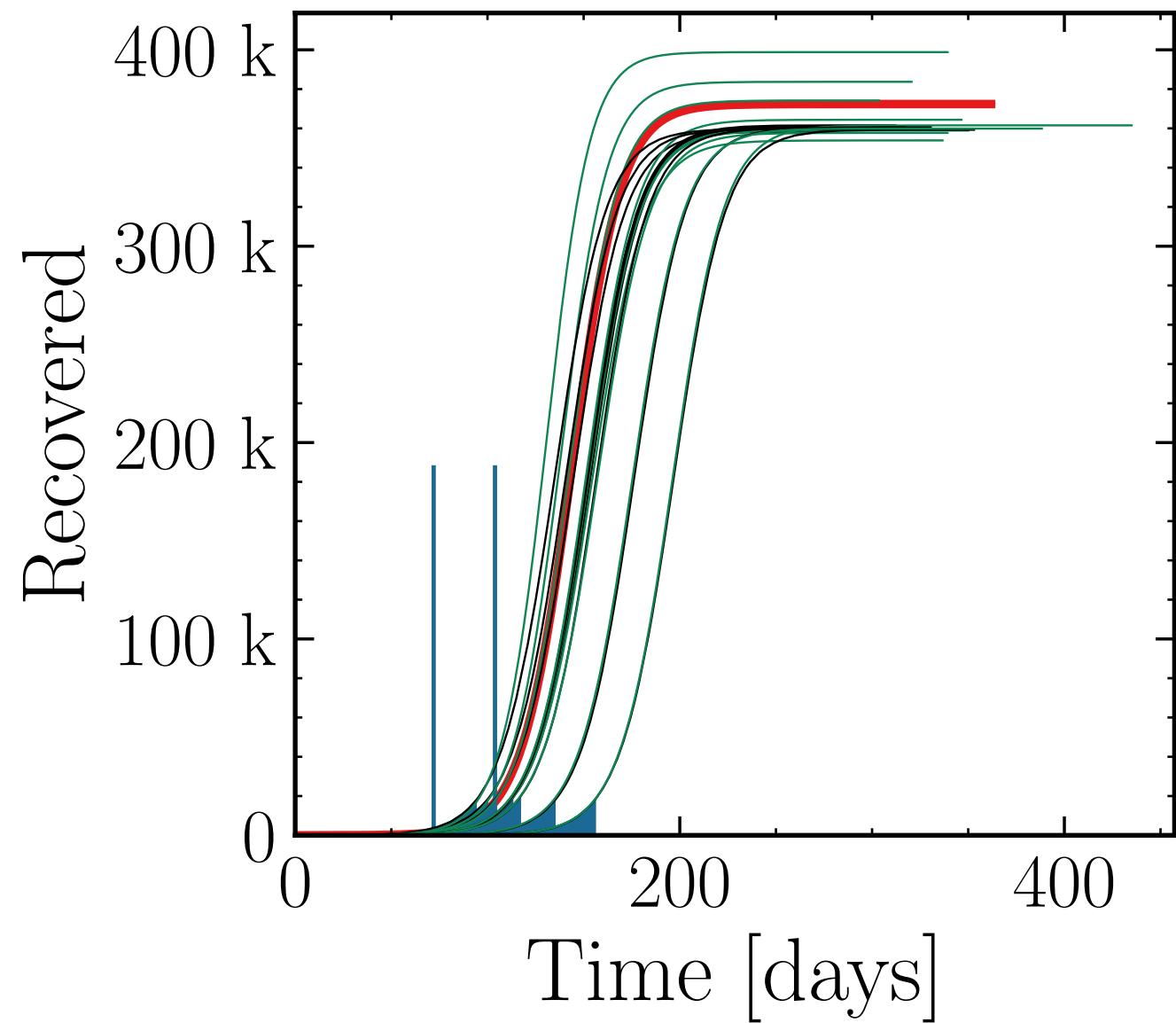
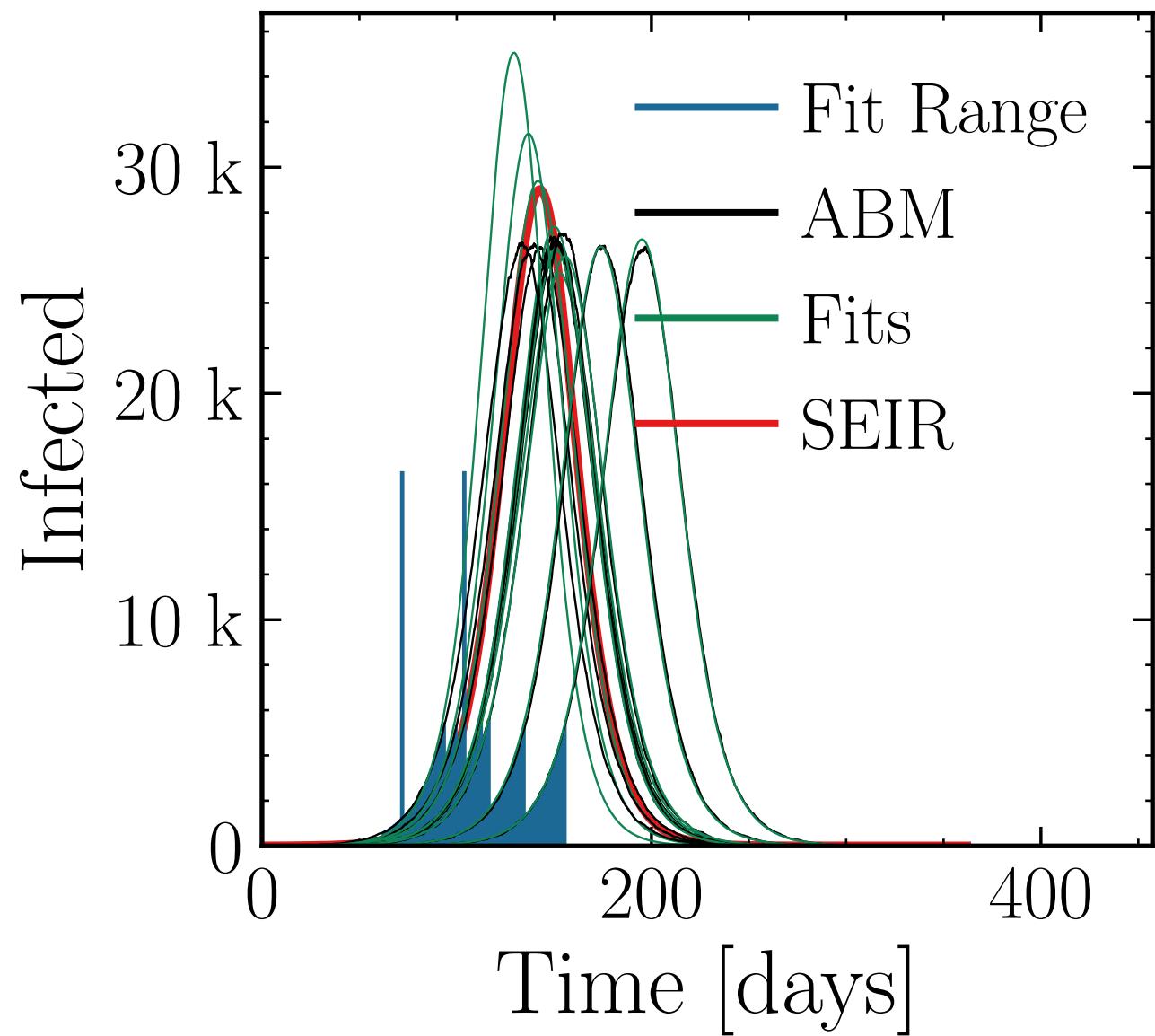
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 5$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 26.7^{+5}_{-0.7} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.05 \pm 0.035$$

$$R_{\infty}^{\text{fit}} = 36.1^{+2}_{-0.3} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.02 \pm 0.012$$



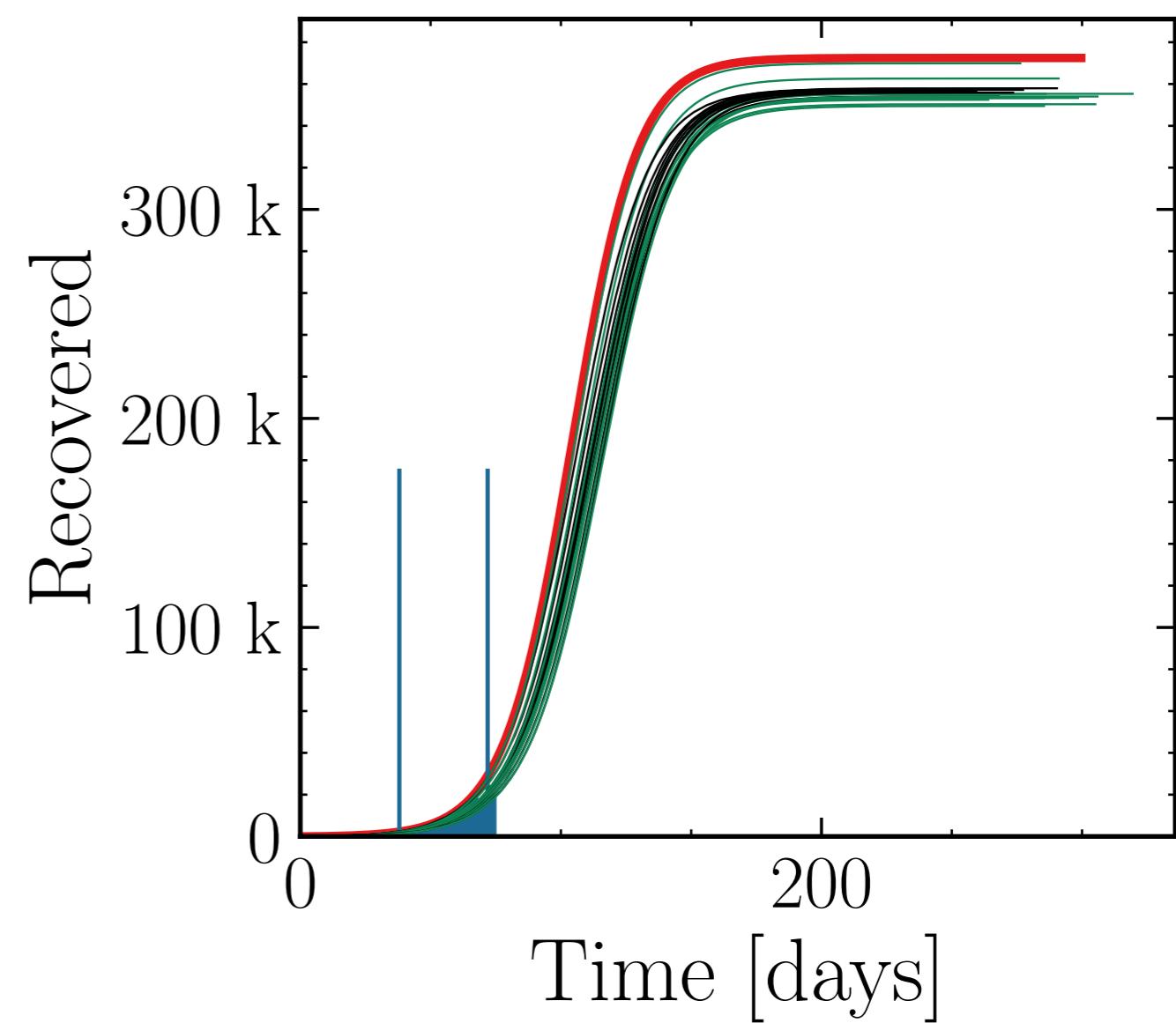
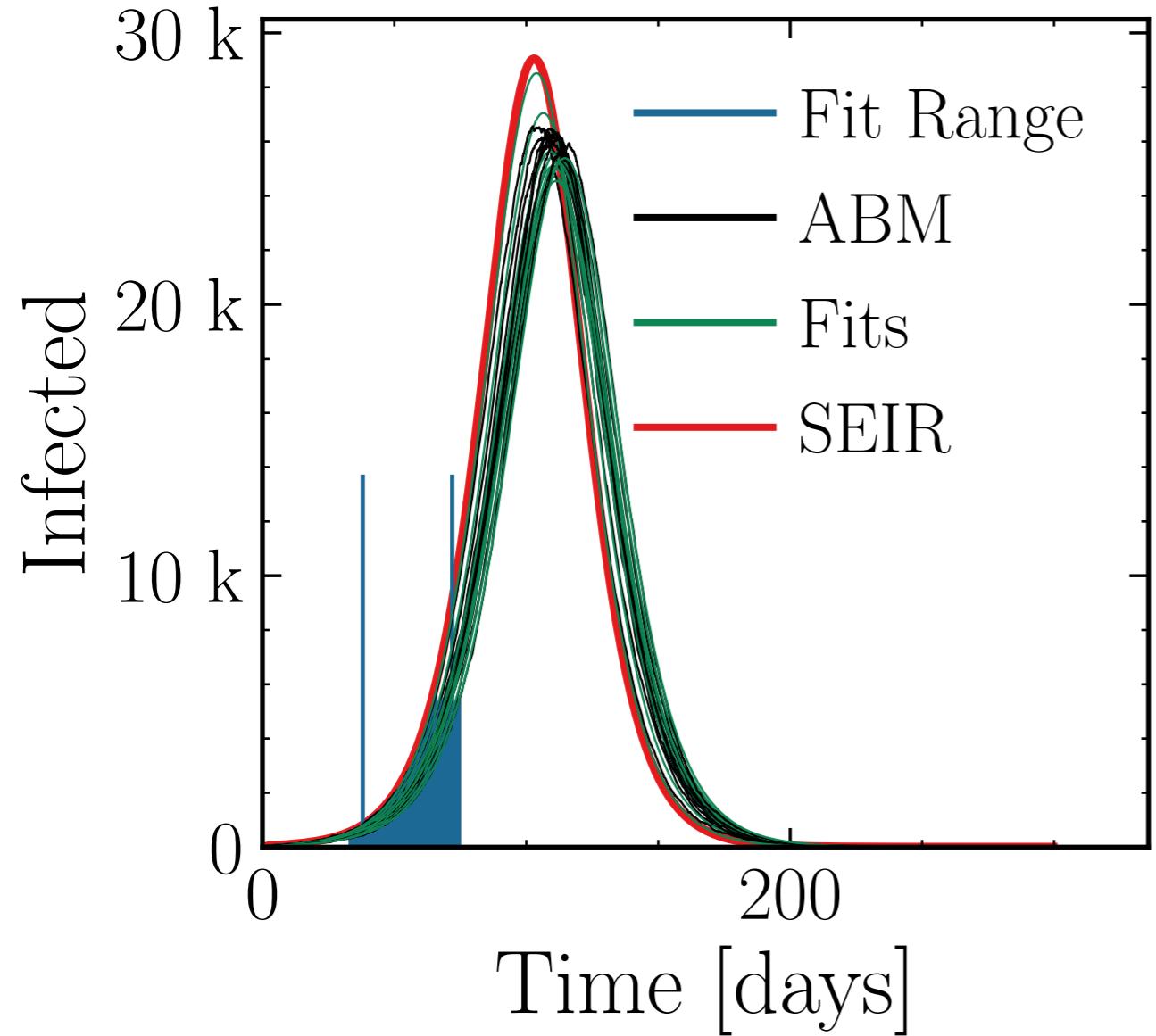
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 25.4^{+1.7}_{-0.7} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.98 \pm 0.01$$

$$R_{\infty}^{\text{fit}} = 354^{+9}_{-4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 0.997 \pm 0.005$$



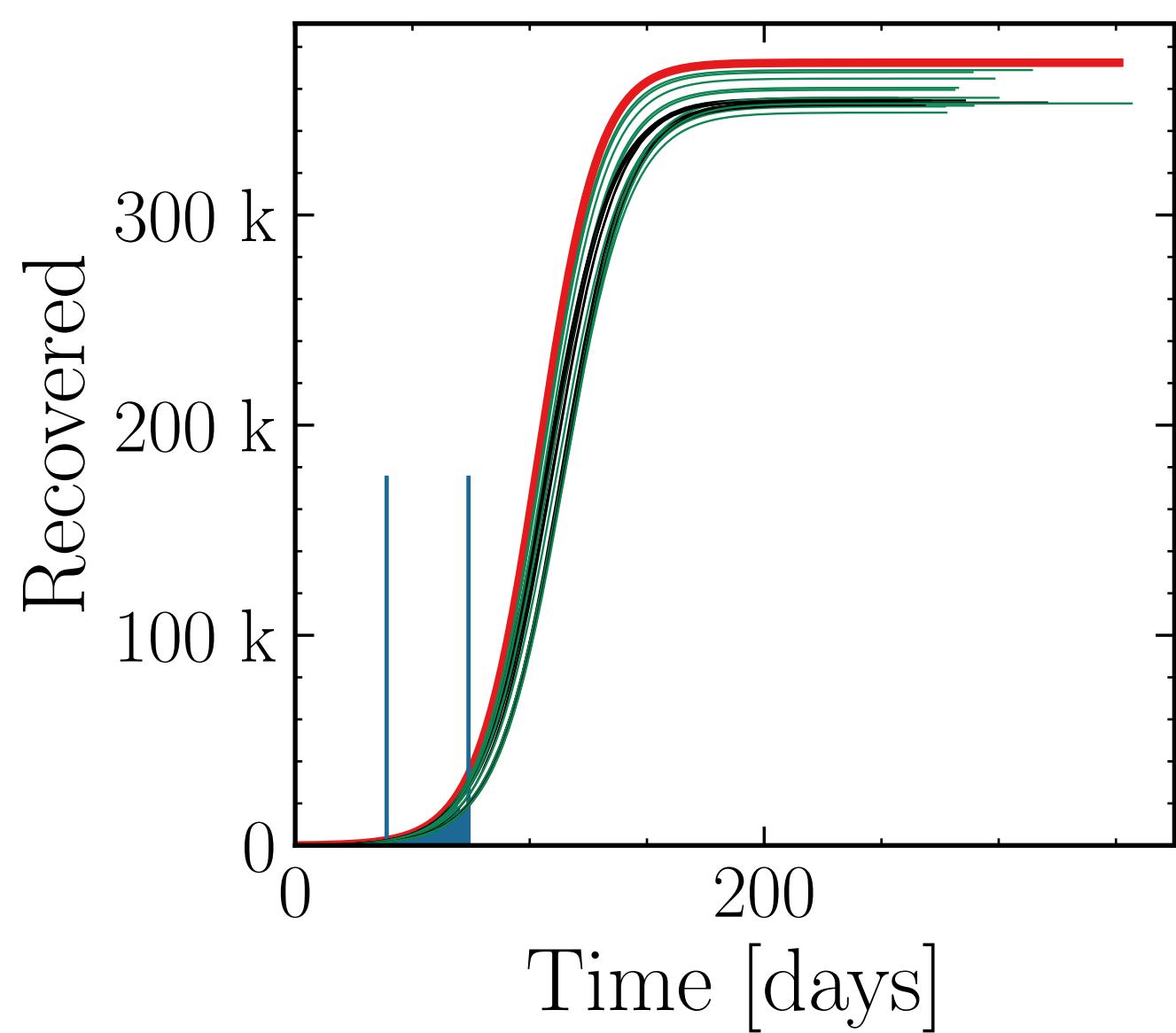
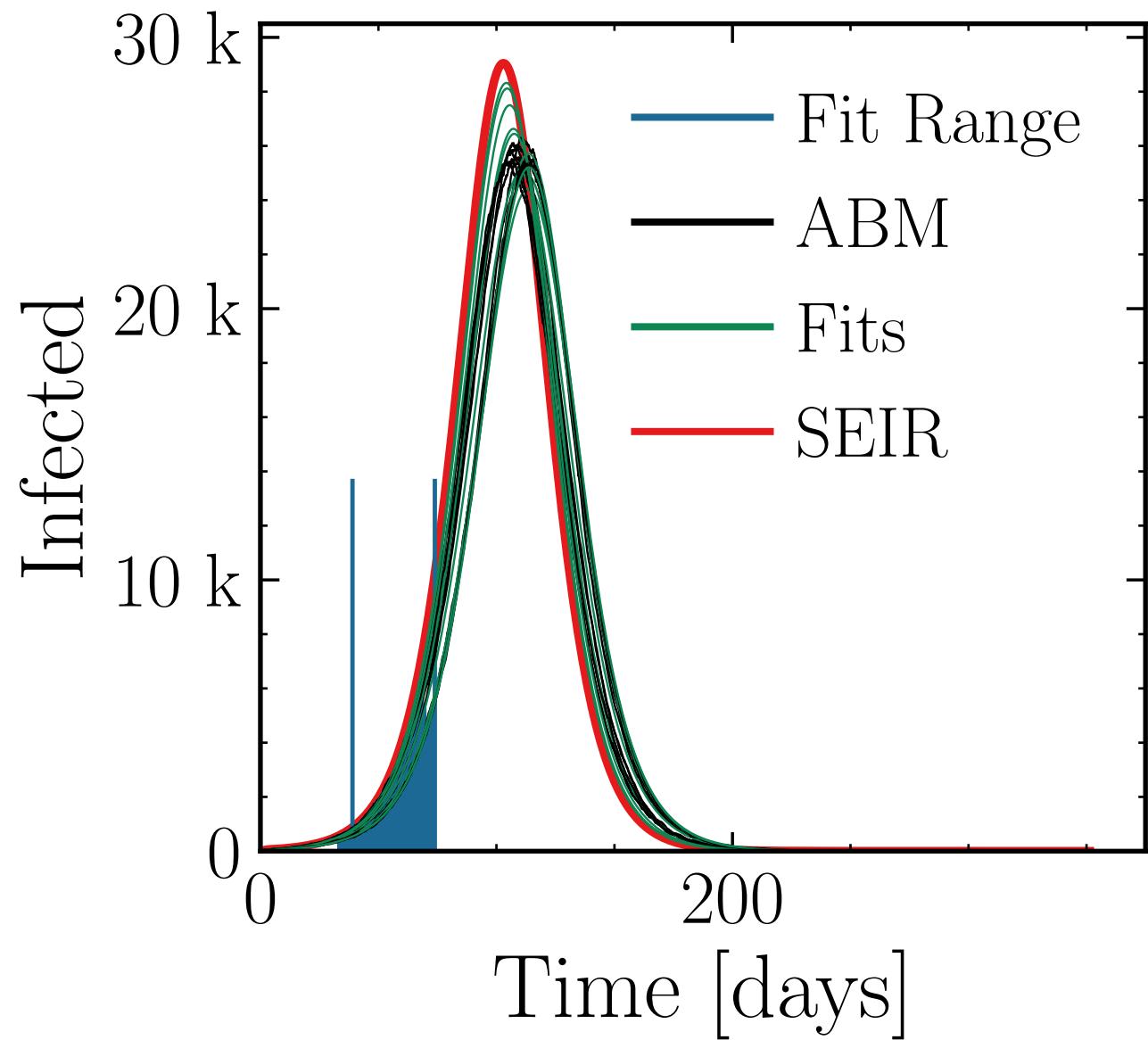
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 26^{+1.9}_{-1.3} \cdot 10^3$$

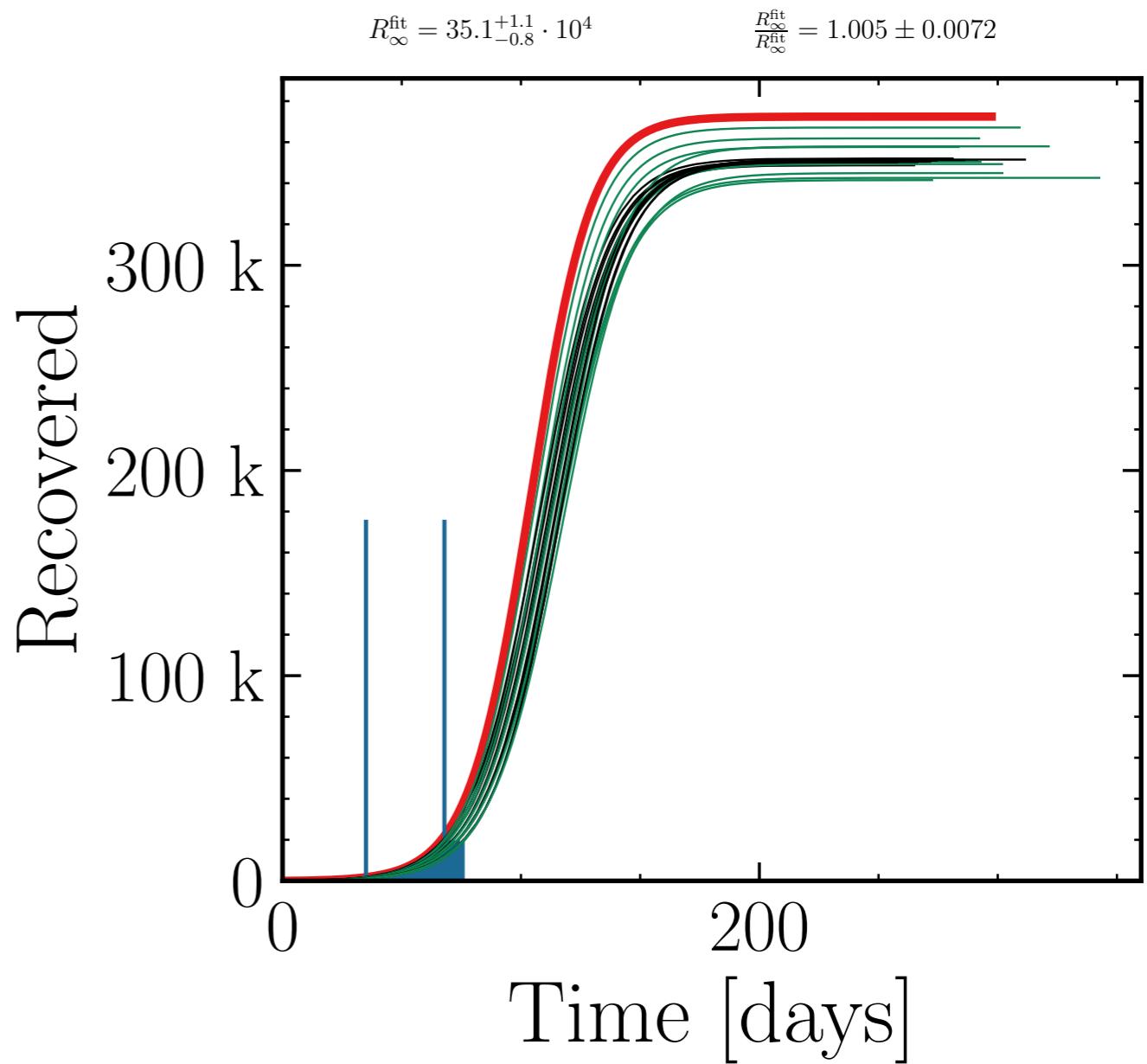
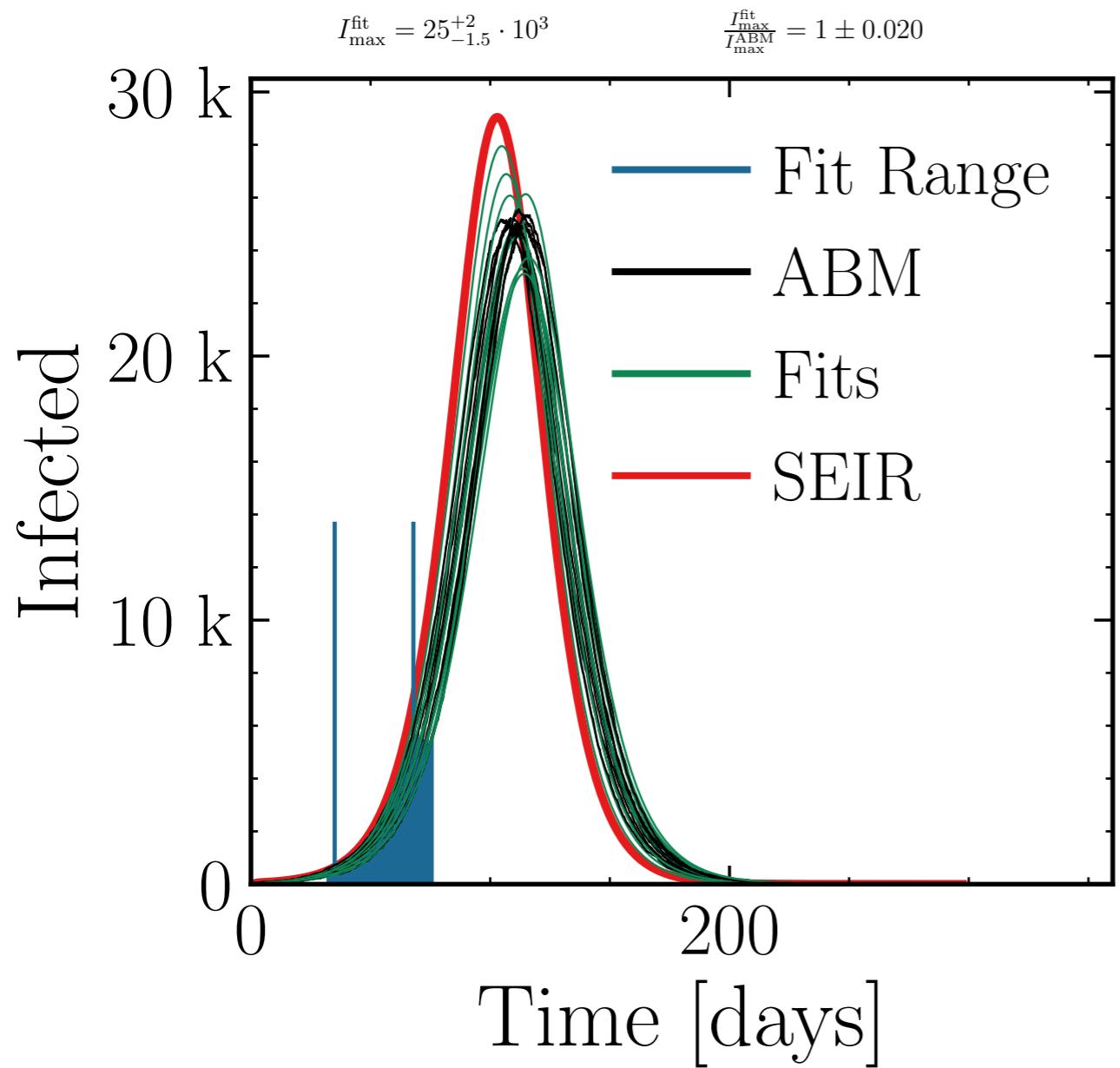
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.02 \pm 0.018$$

$$R_{\infty}^{\text{fit}} = 359^{+9}_{-7} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.012 \pm 0.0058$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



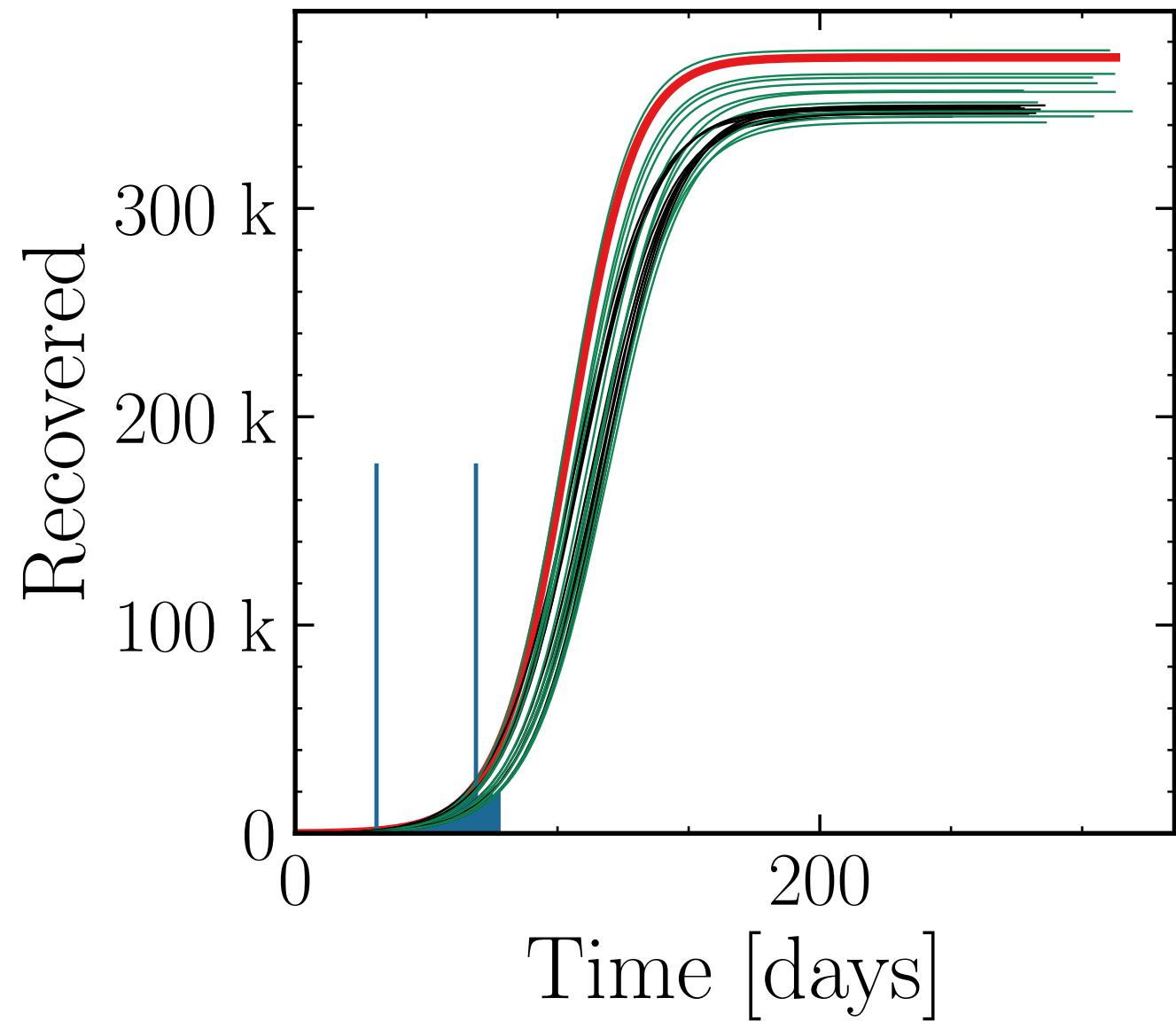
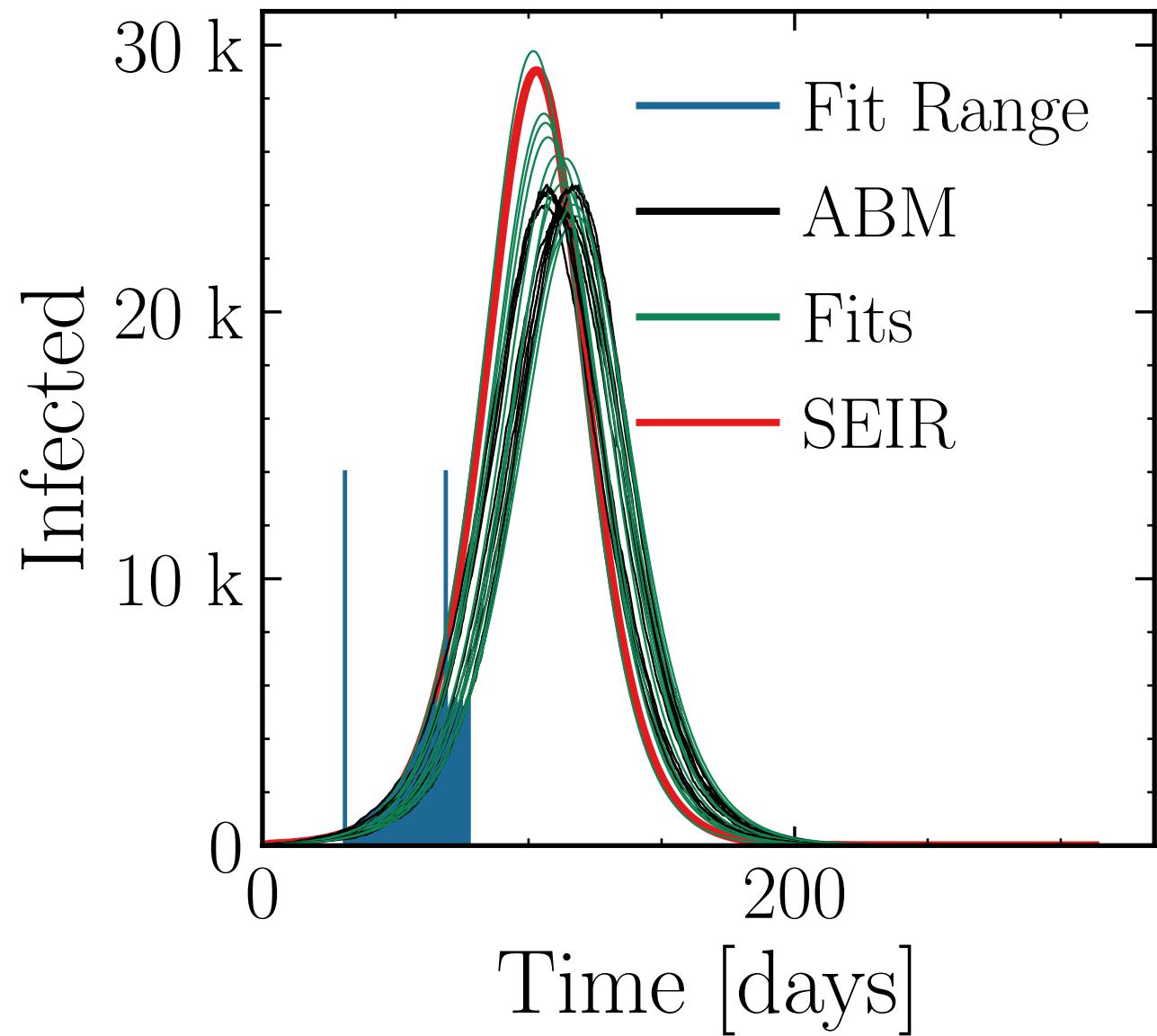
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 26_{-2}^{+1.6} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.06 \pm 0.027$$

$$R_{\infty}^{\text{fit}} = 356_{-12}^{+8} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.025 \pm 0.0097$$



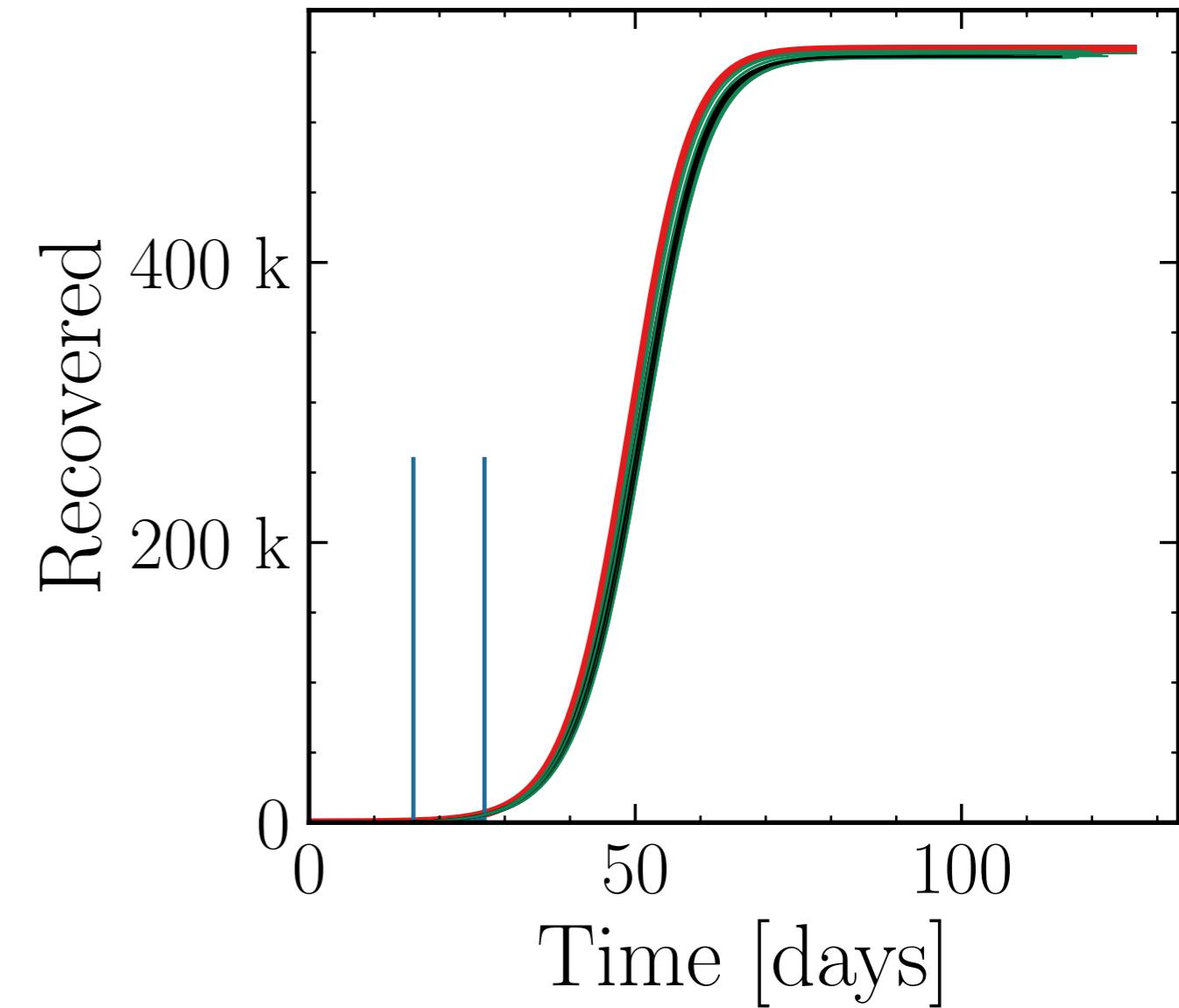
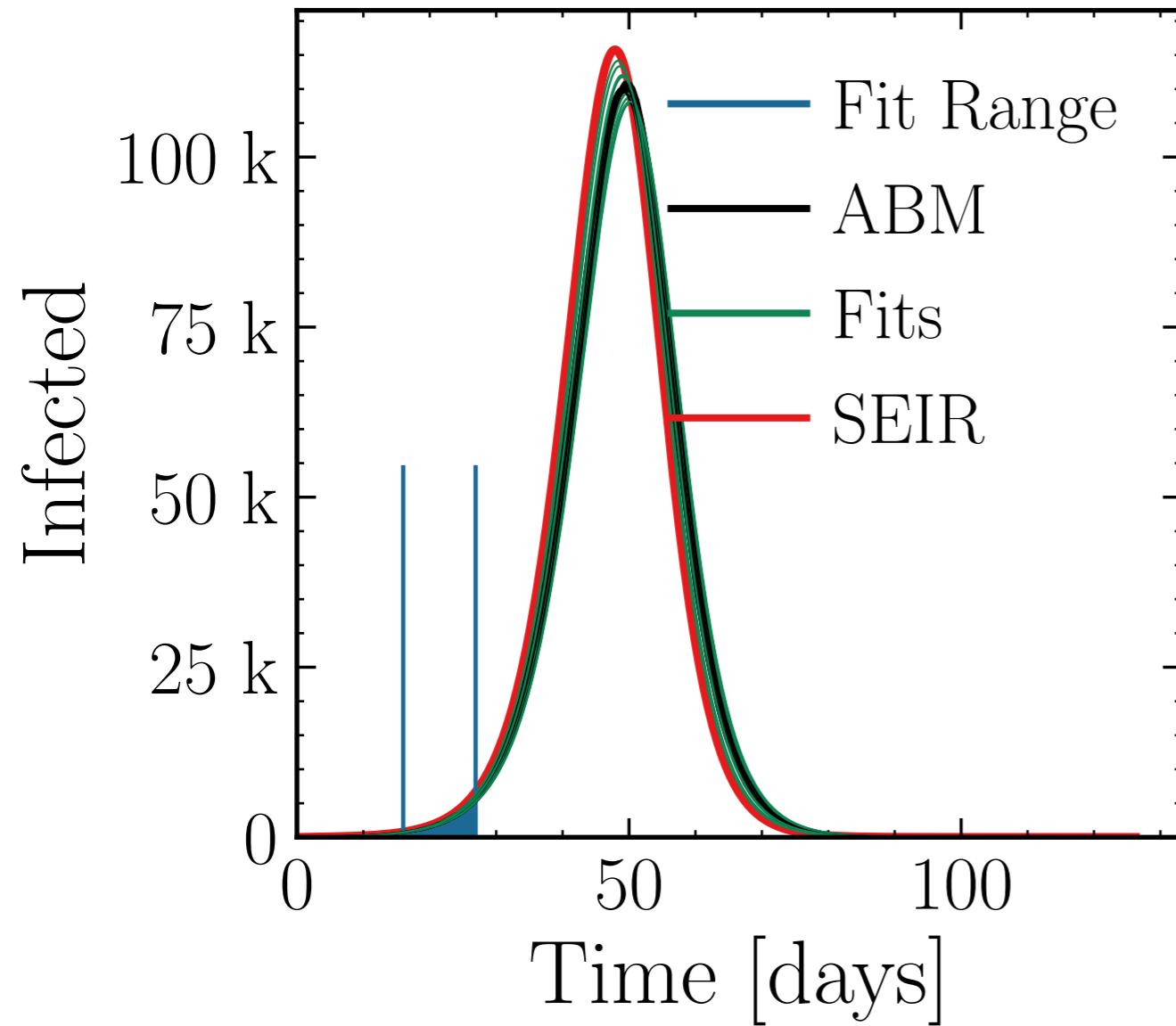
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 110_{-1.8}^{+3} \cdot 10^3$$

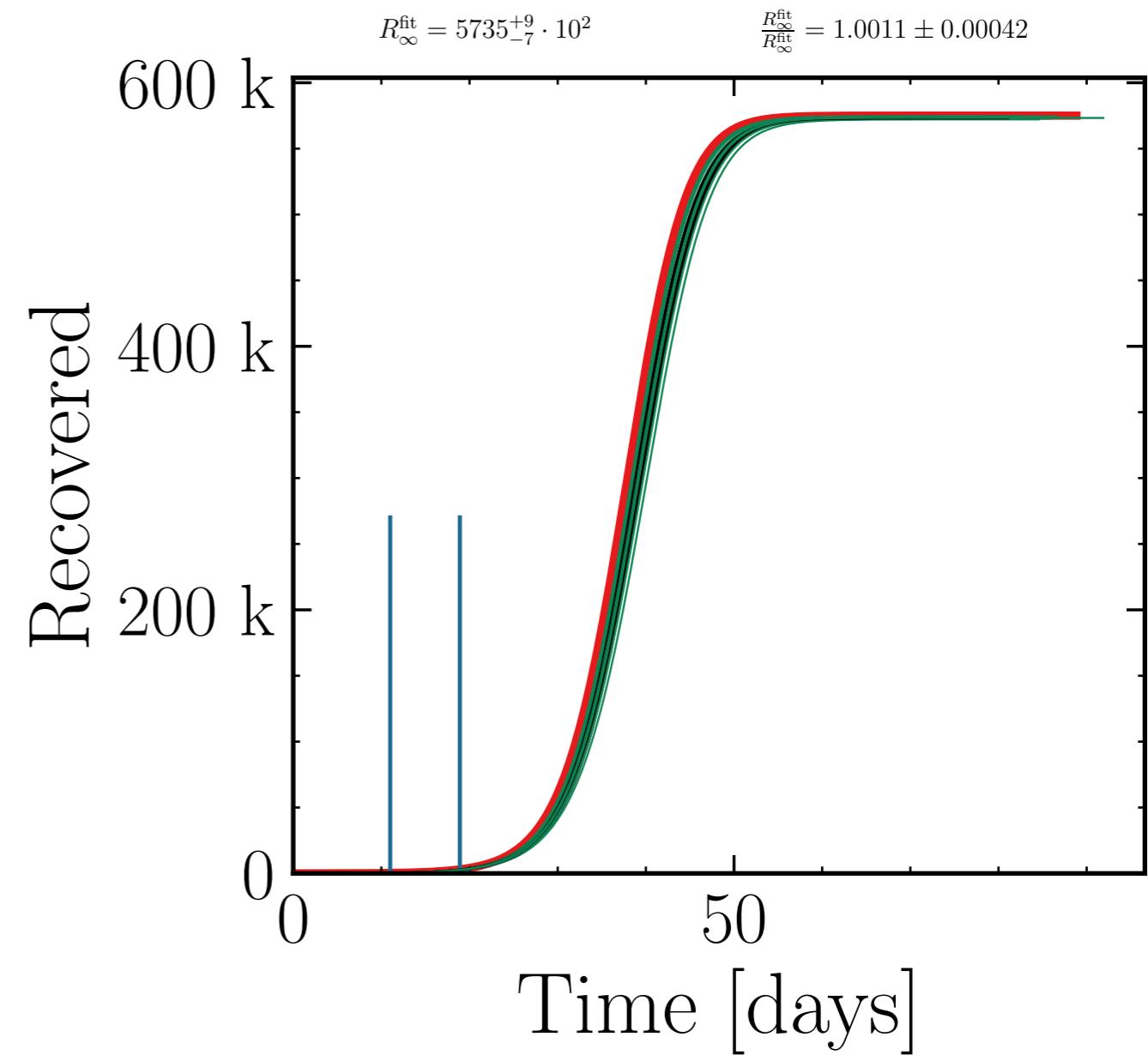
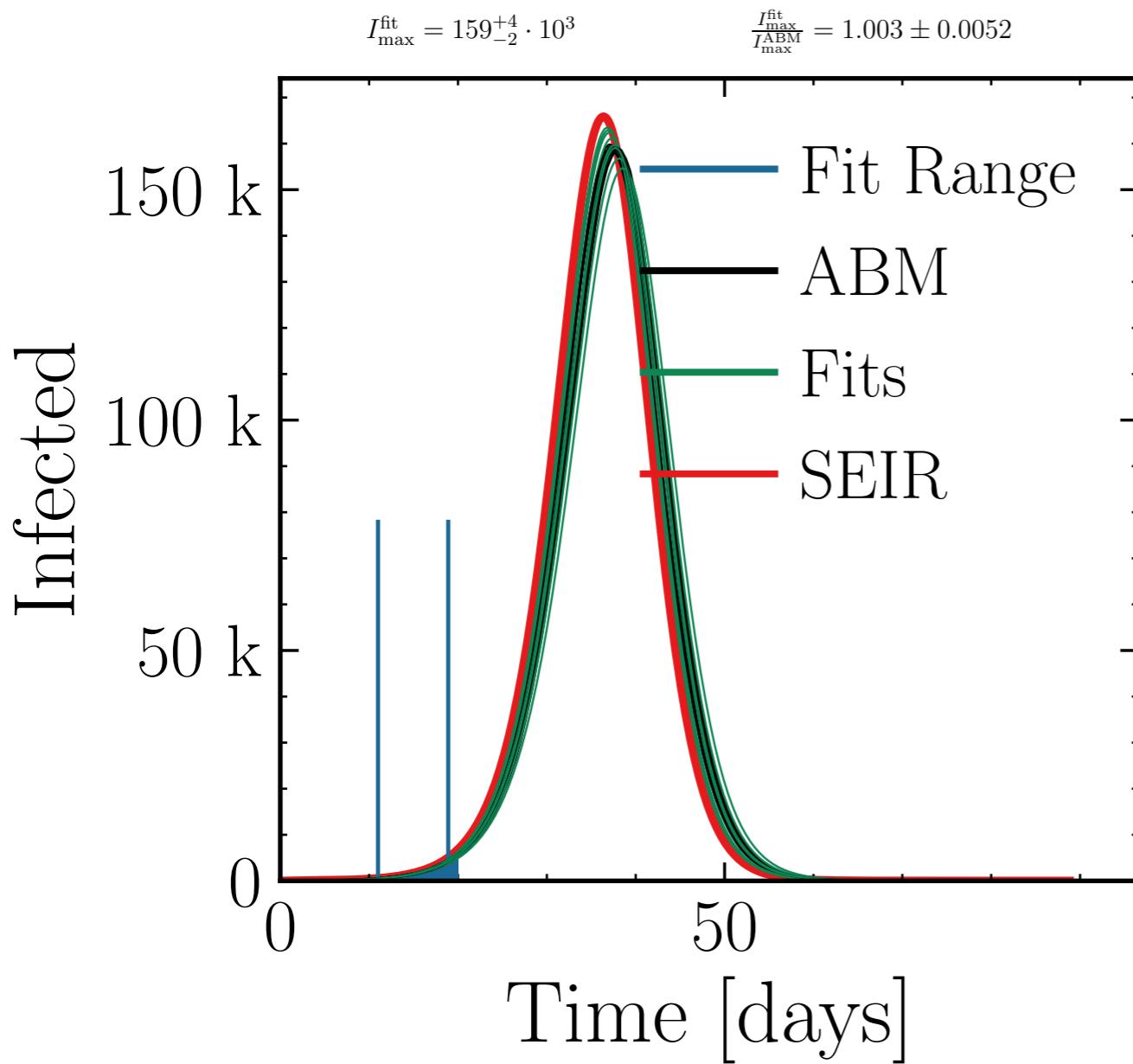
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 0.9996 \pm 0.0071$$

$$R_{\infty}^{\text{fit}} = 548_{-1.6}^{+3} \cdot 10^3$$

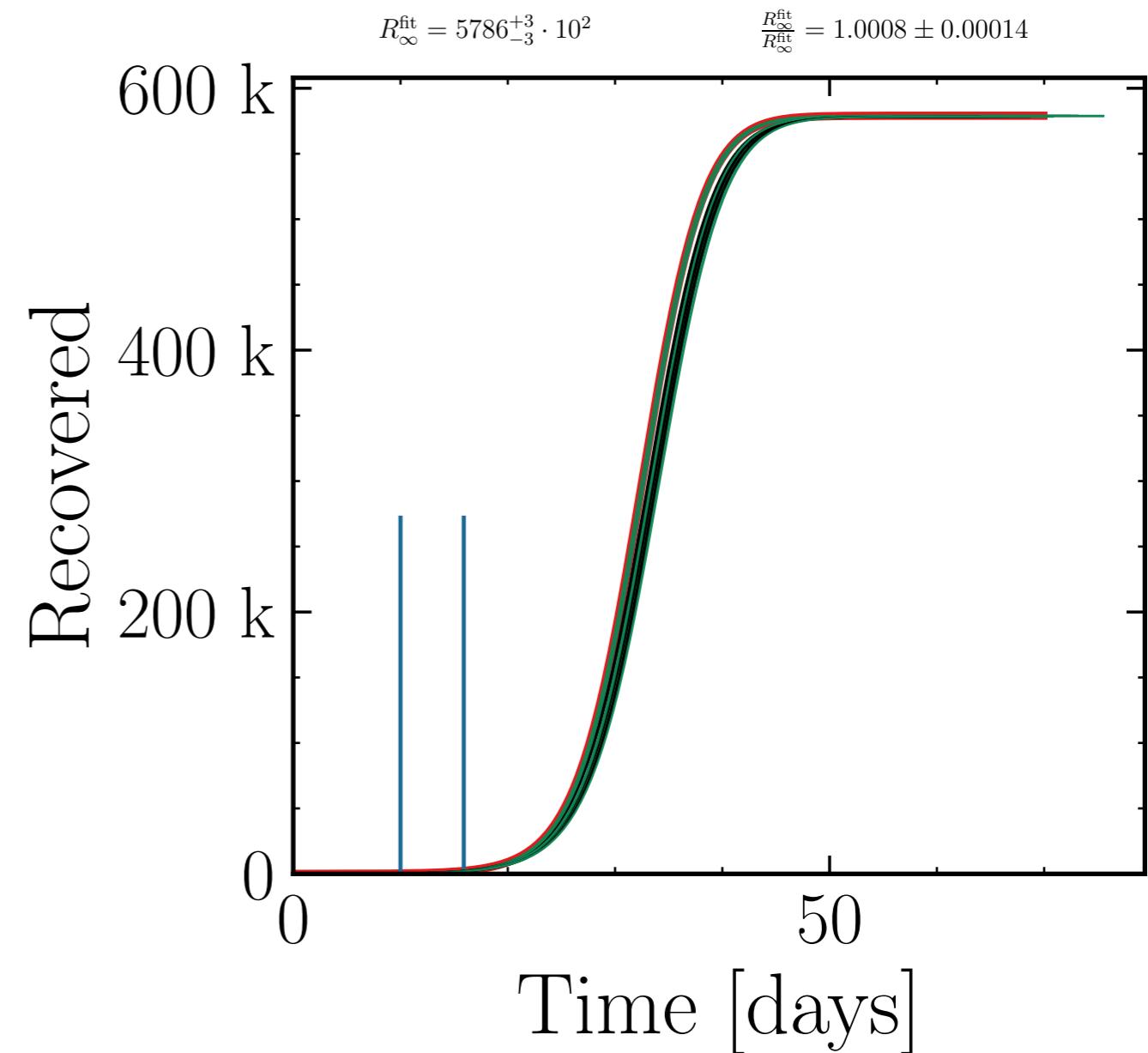
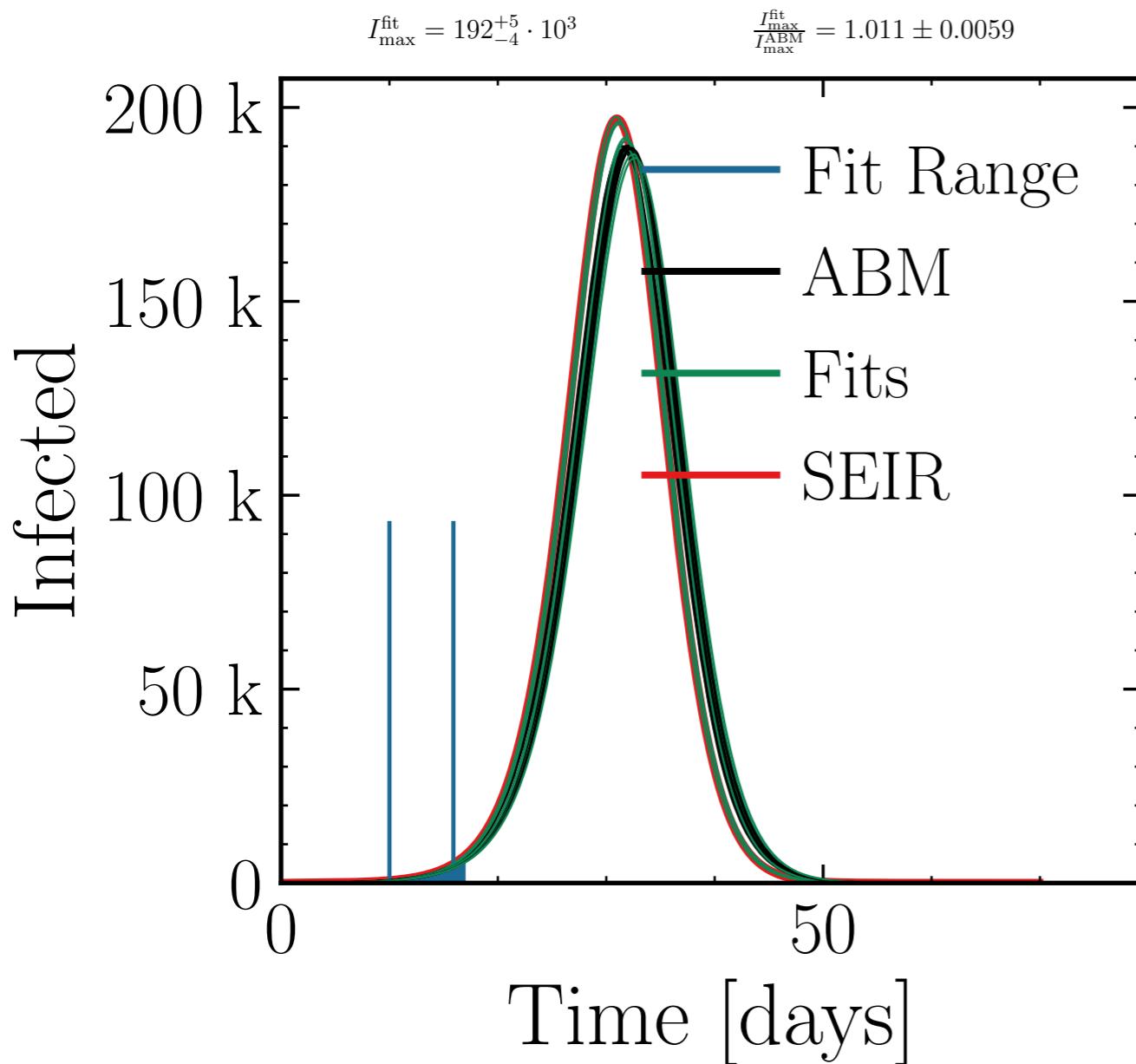
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.002 \pm 0.0011$$



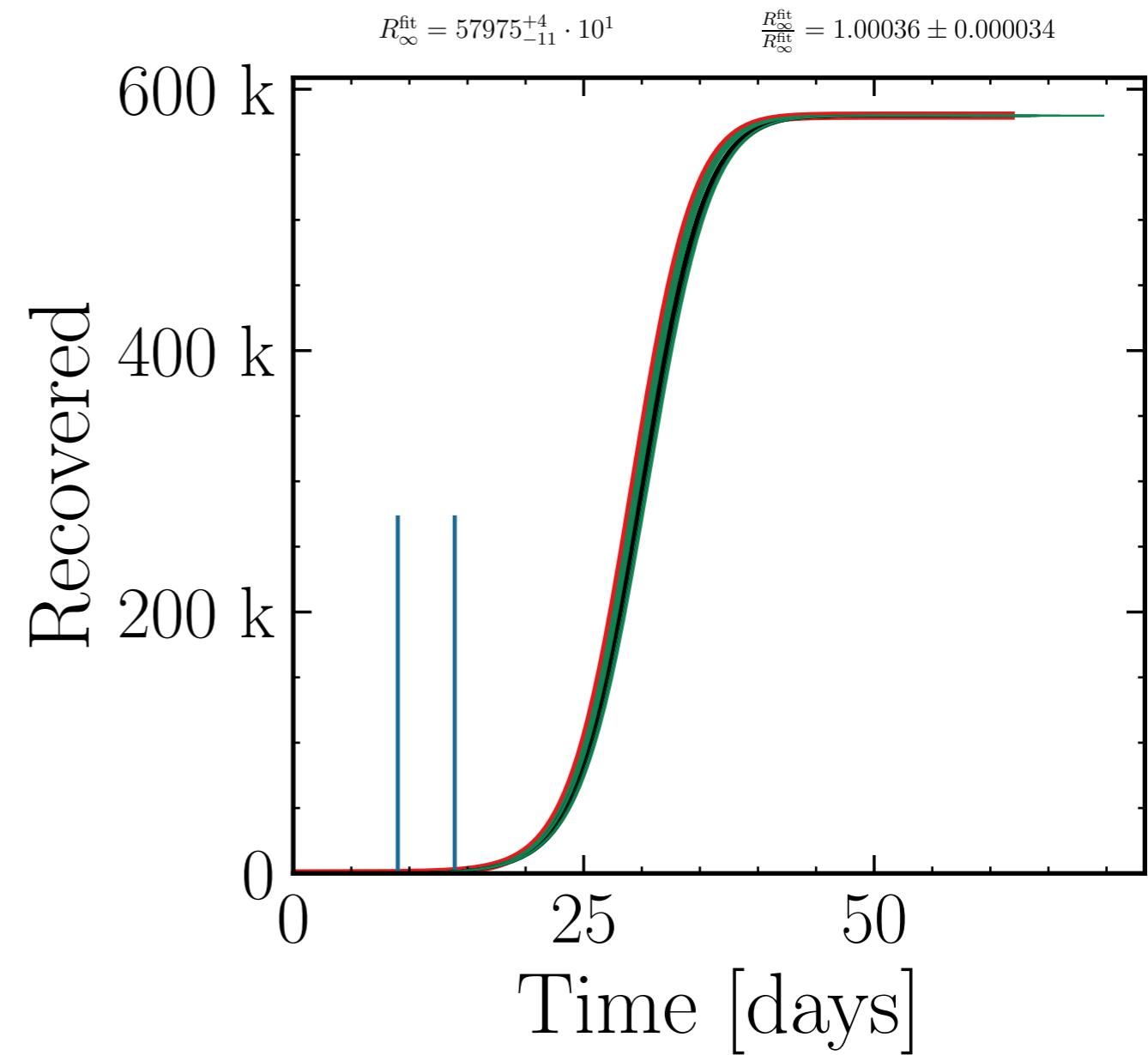
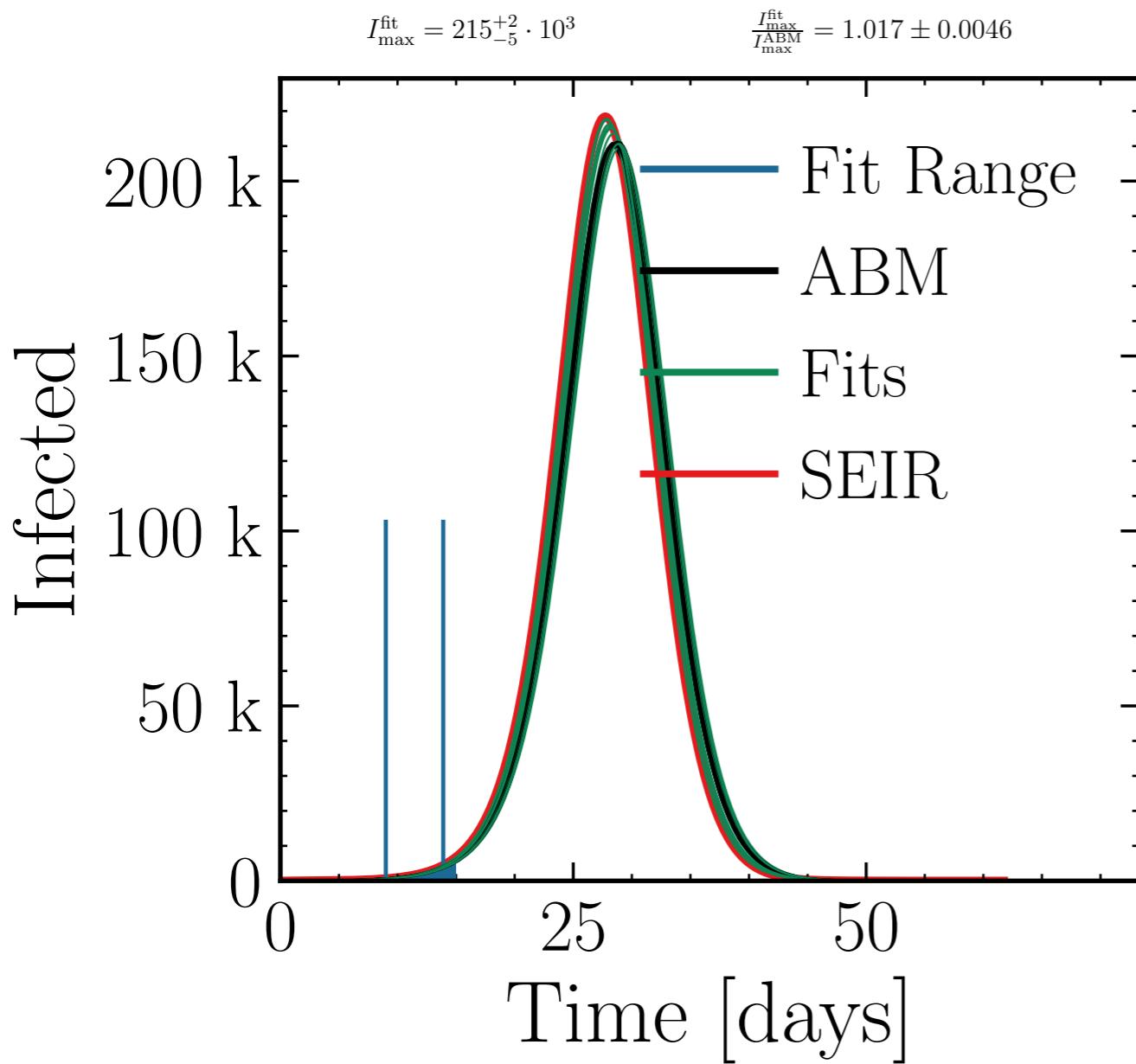
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.03$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



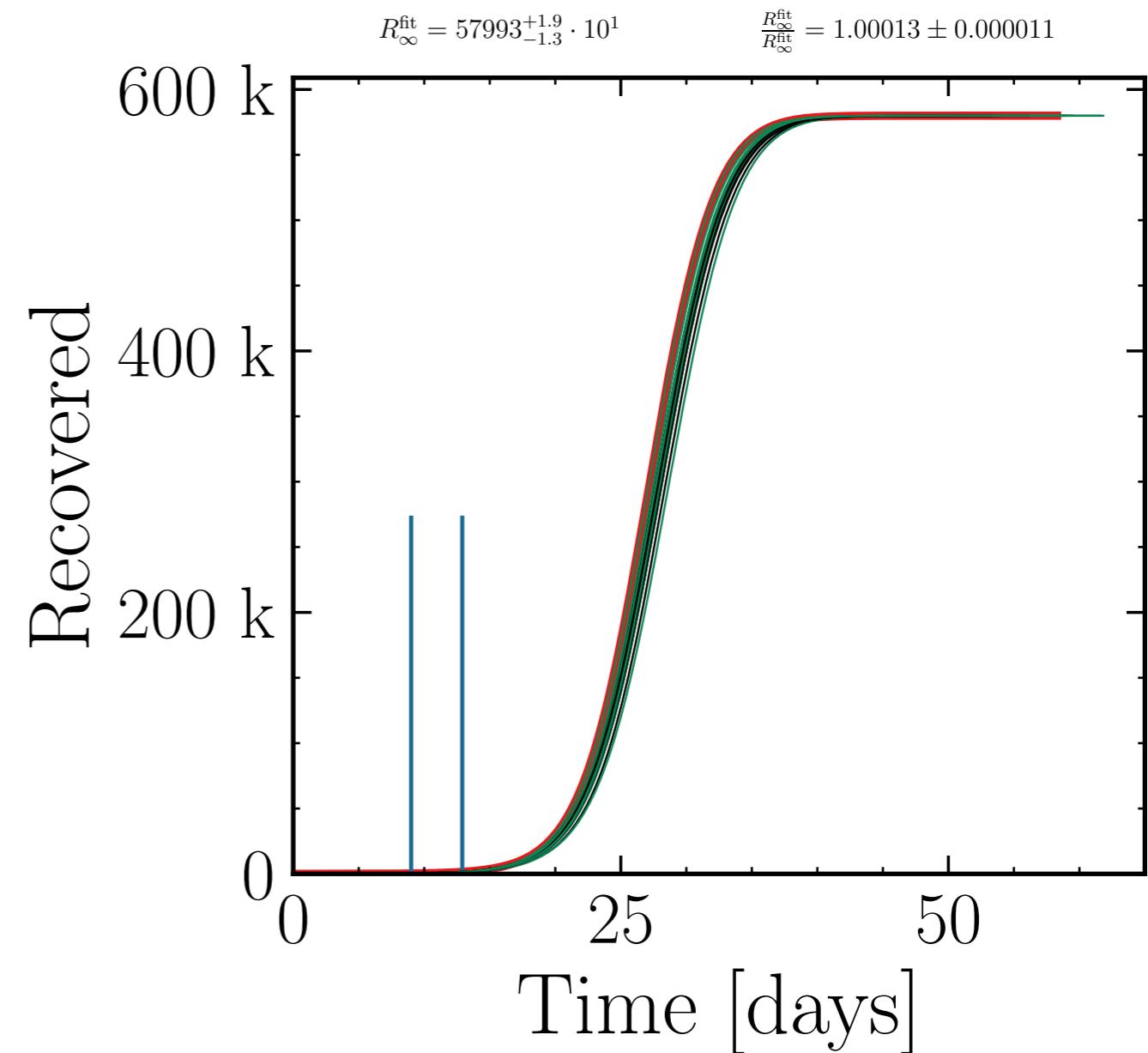
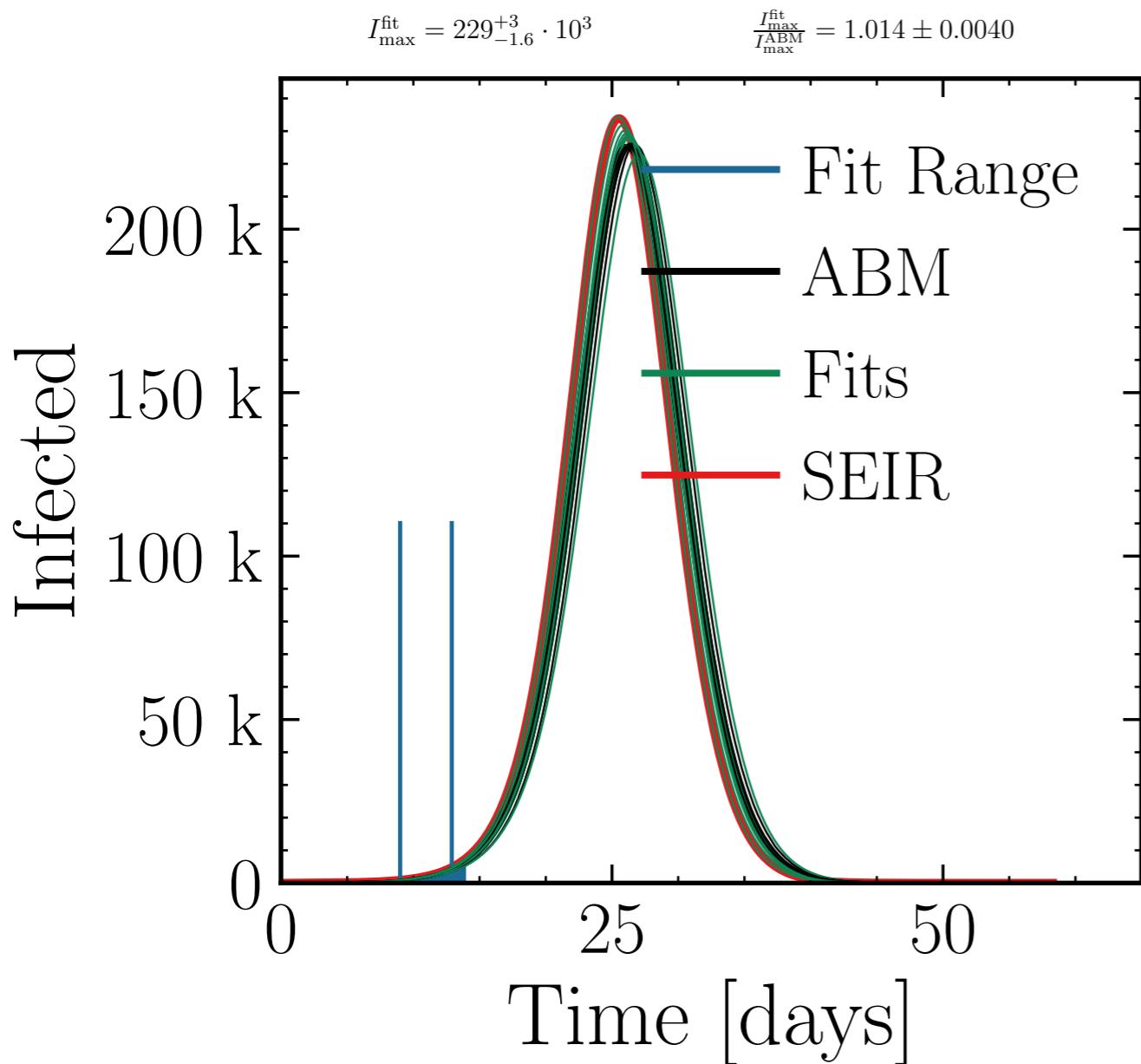
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



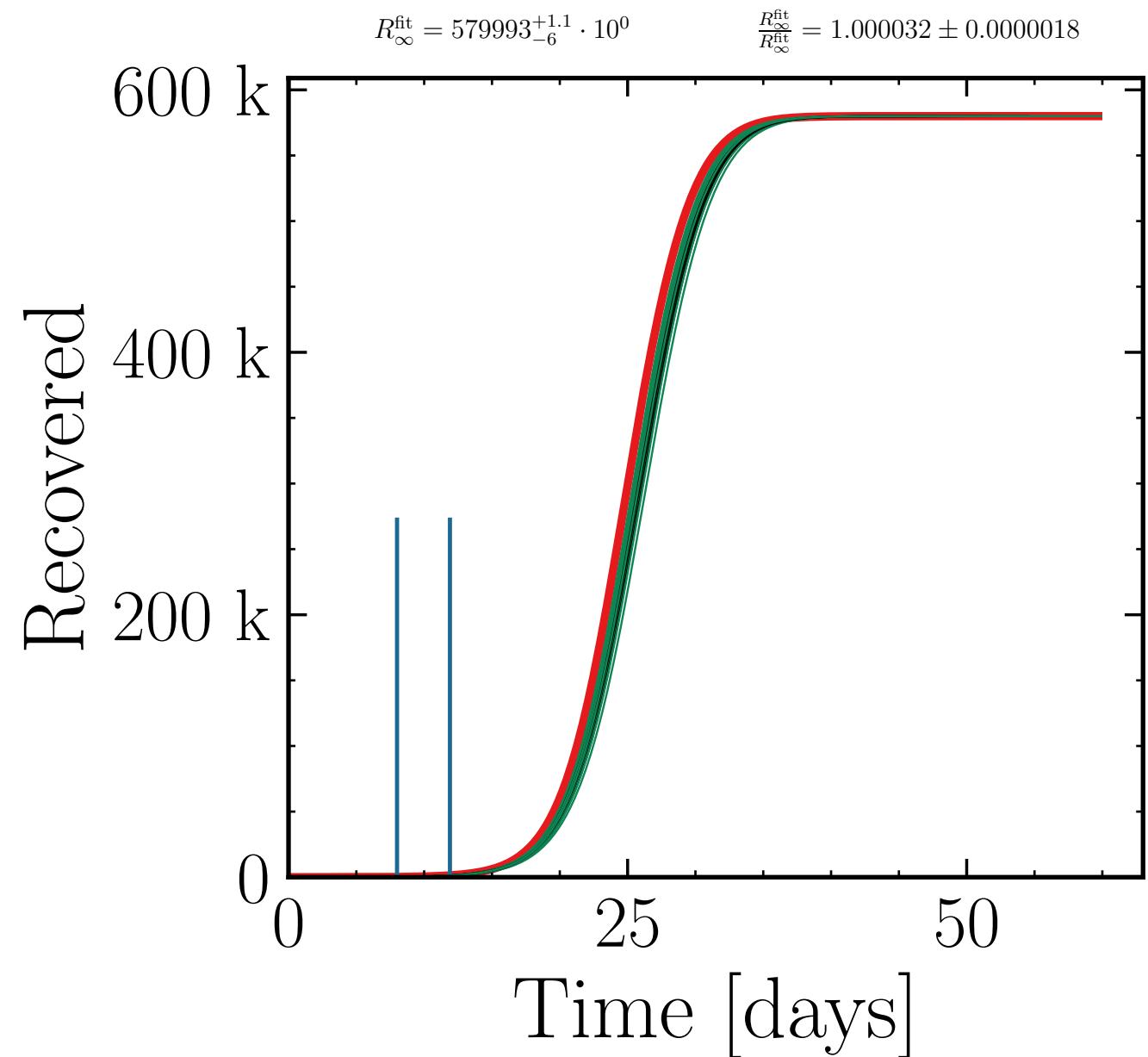
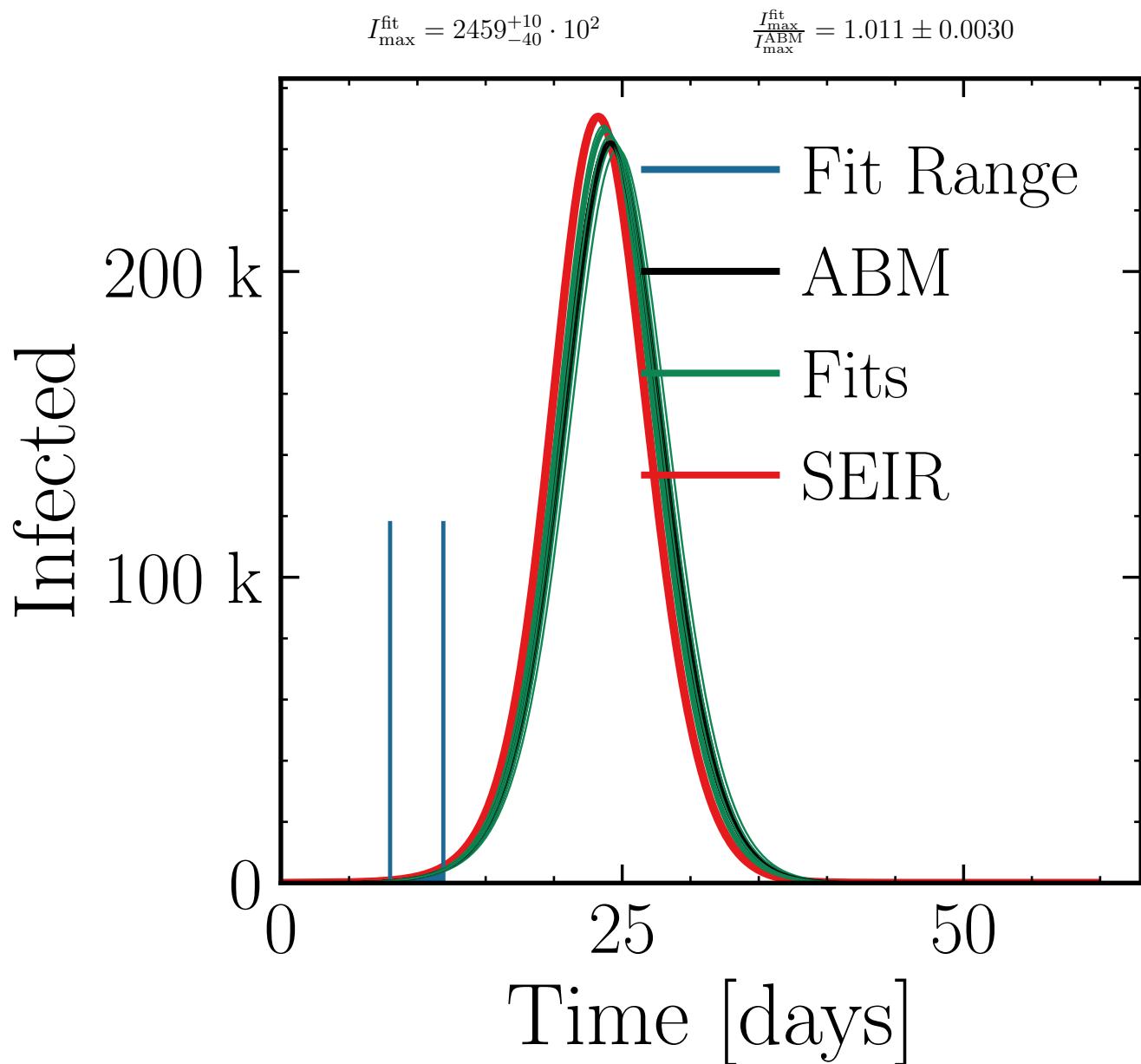
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.05$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.06$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



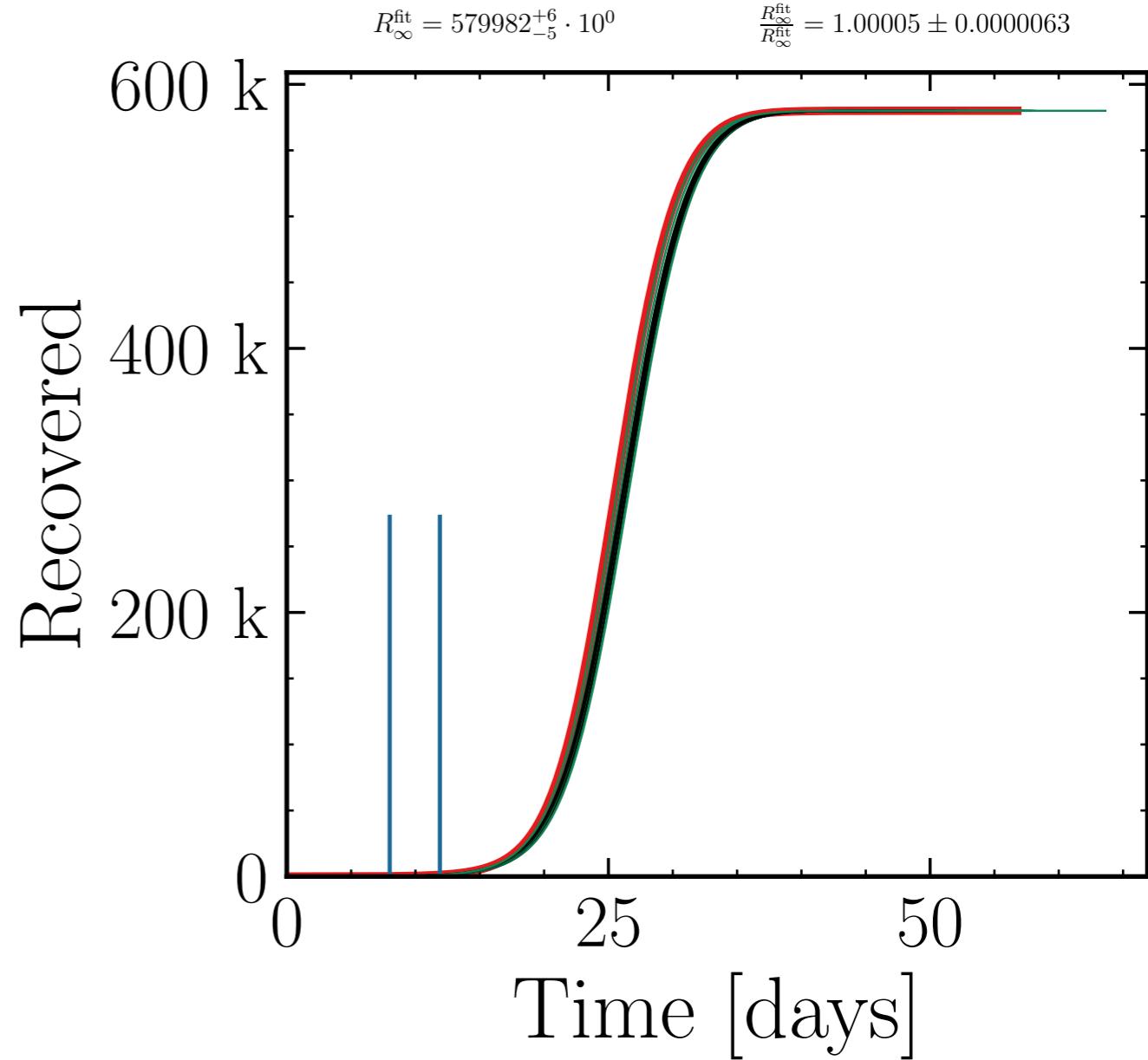
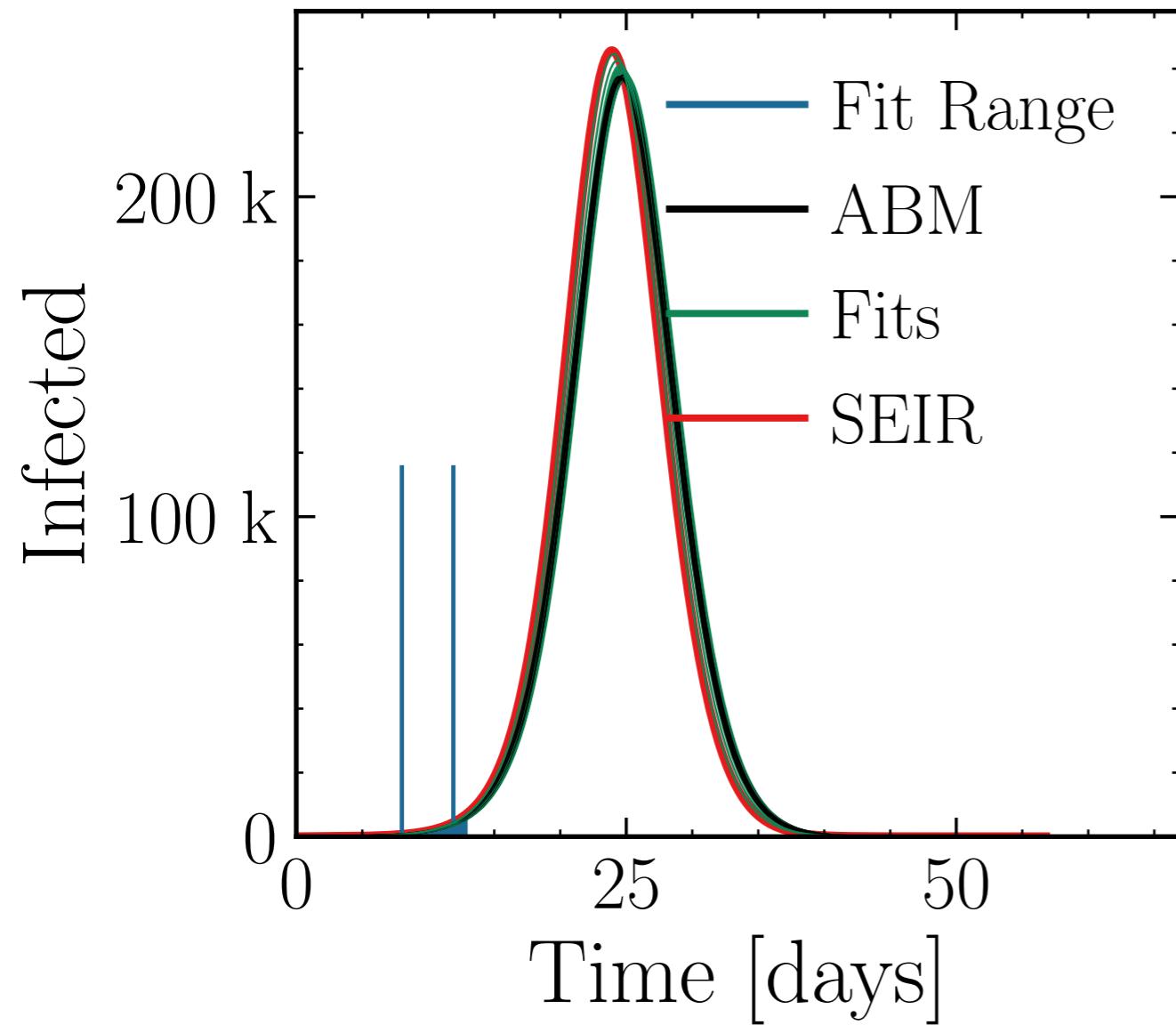
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.075$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



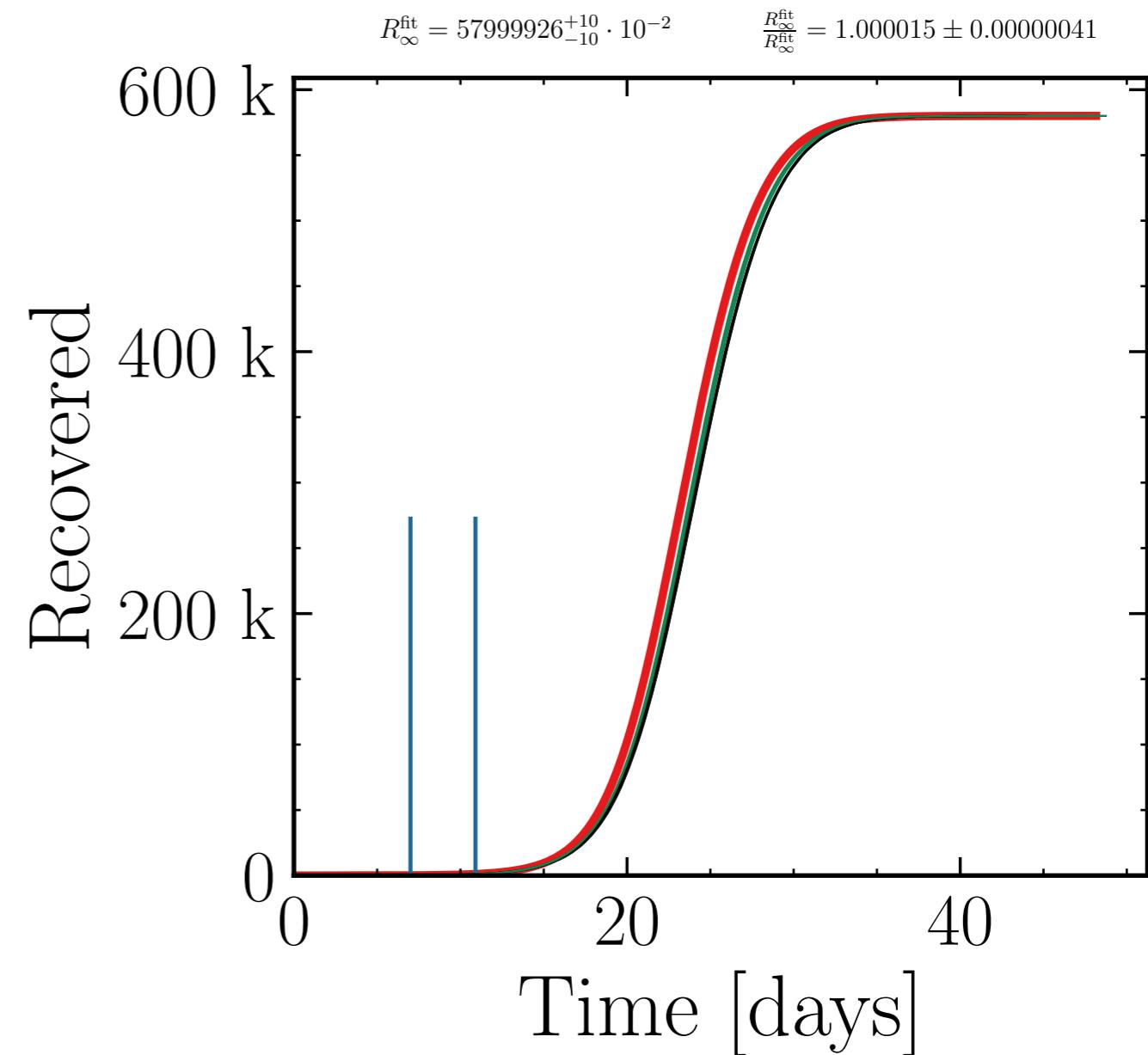
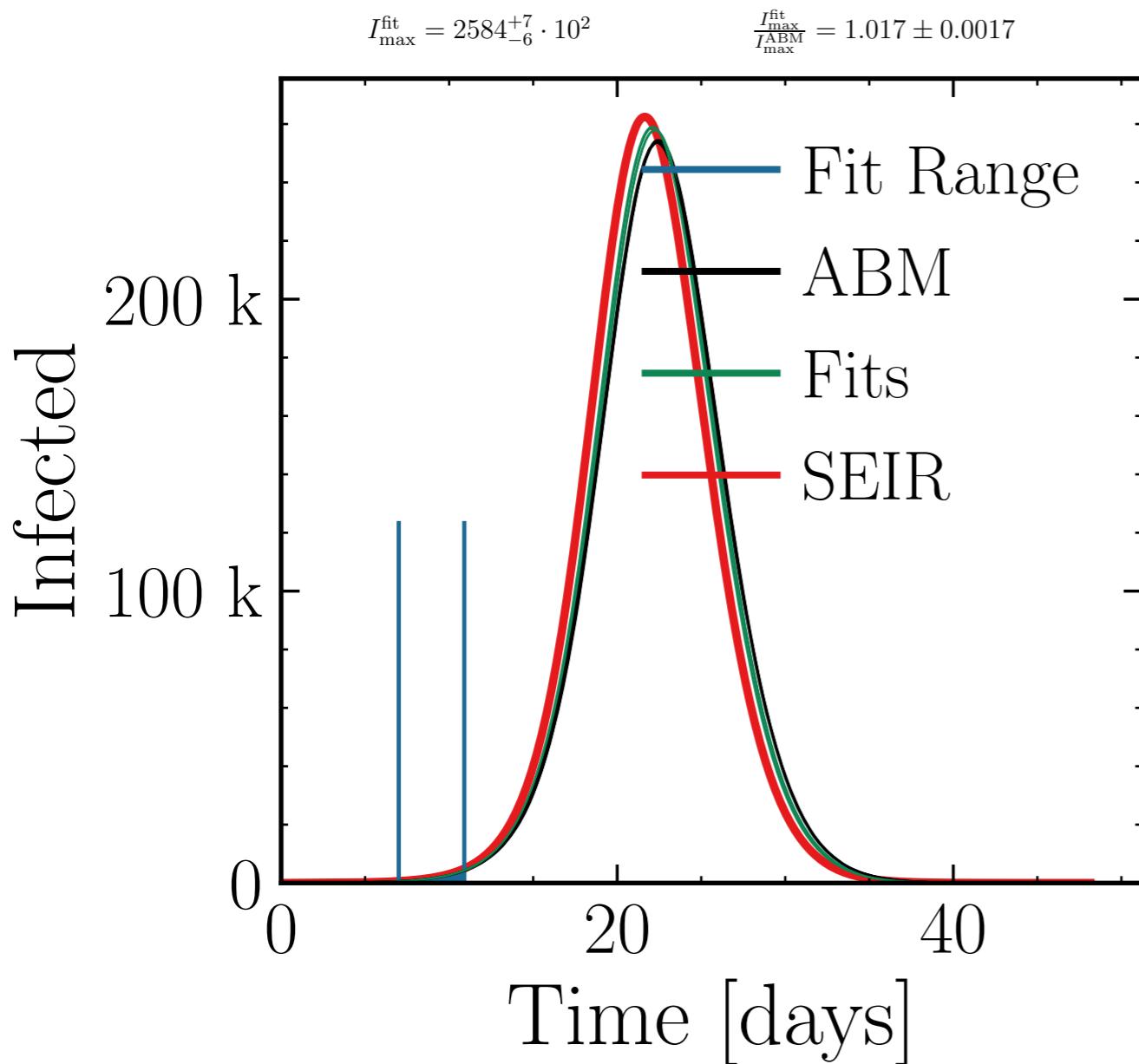
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.07$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 240^{+3}_{-1.8} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 1.012 \pm 0.0027$$



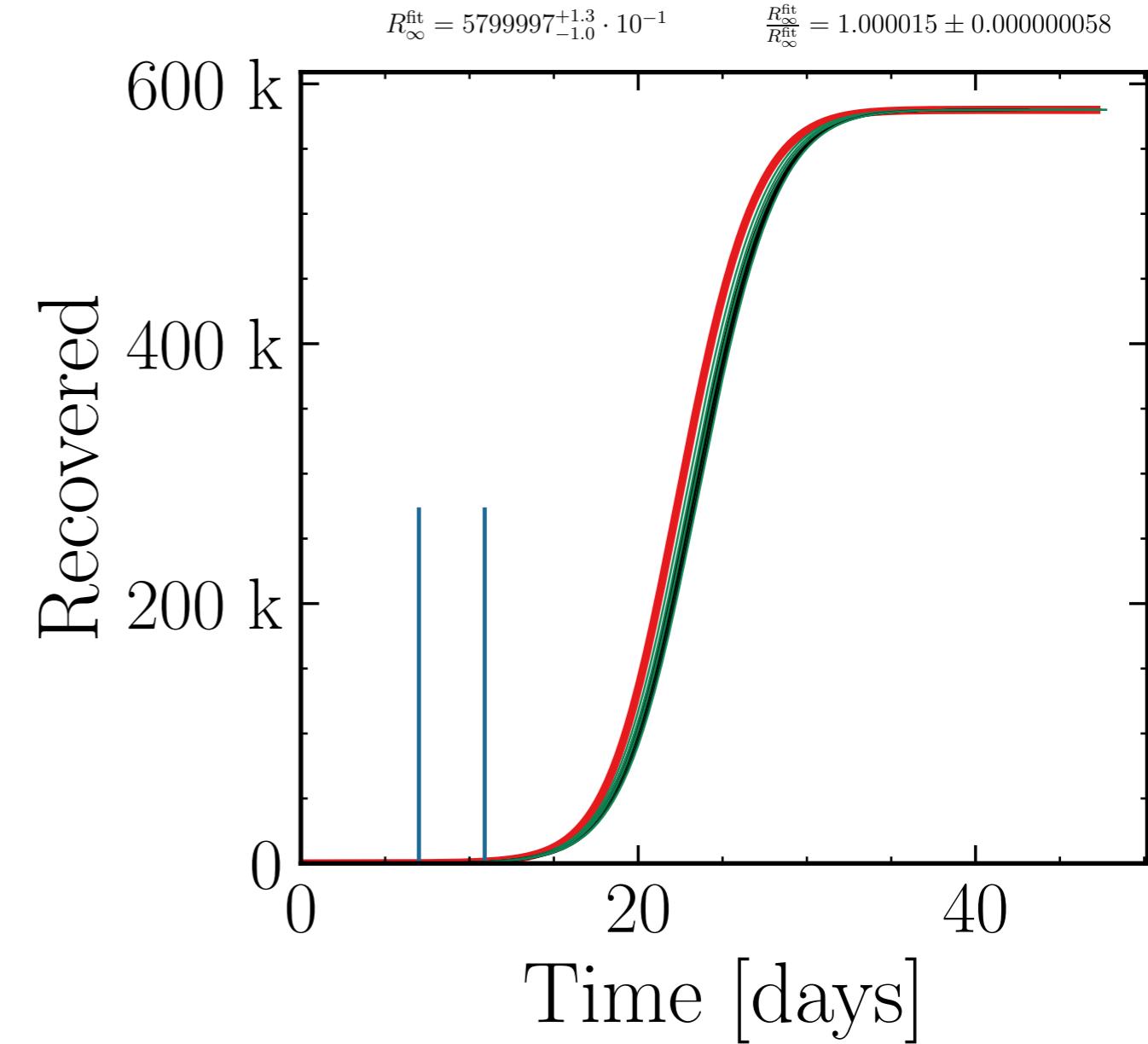
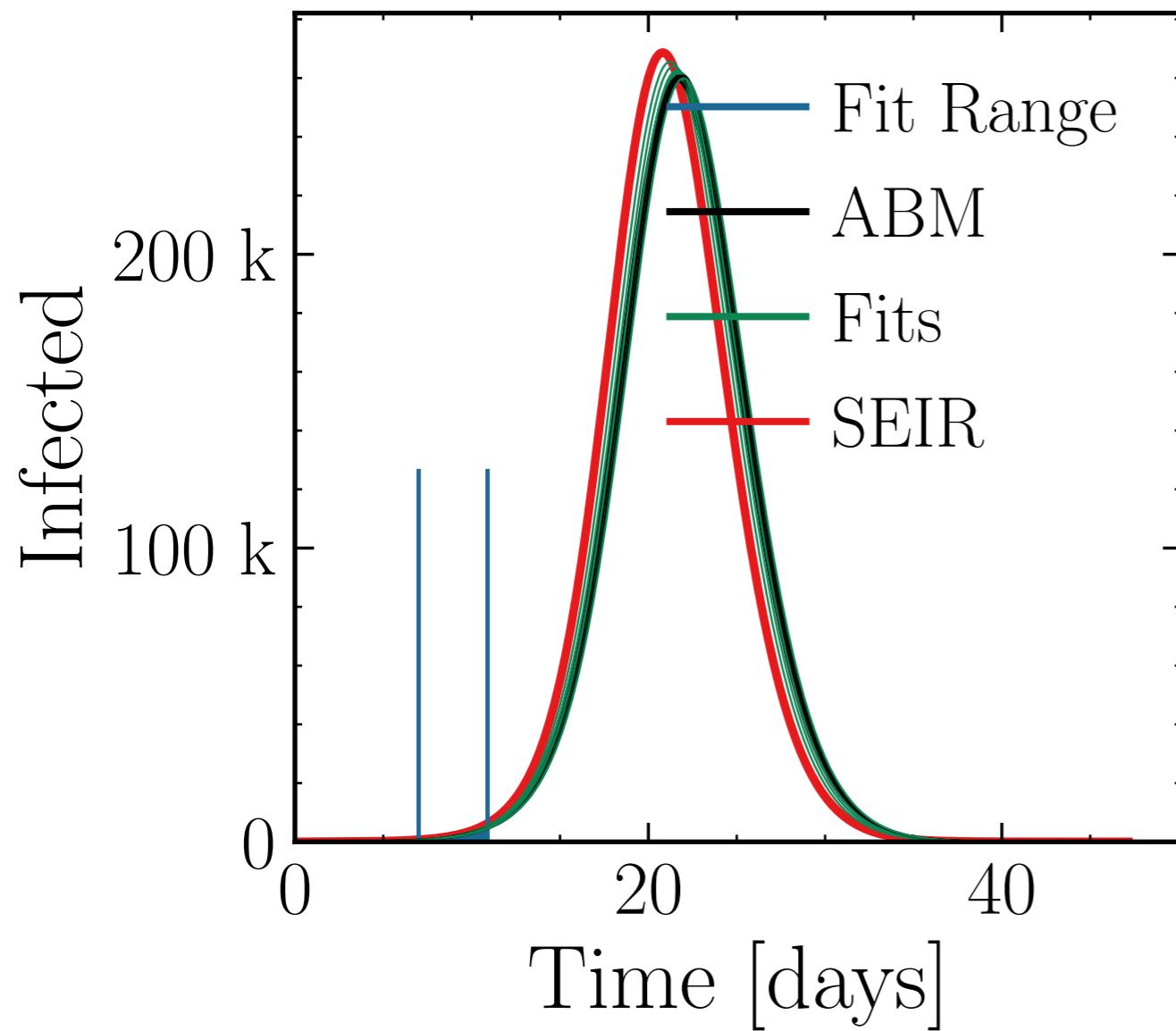
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.09$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #4



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.1$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 262^{+2.0}_{-1.2} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 1.009 \pm 0.0022$$



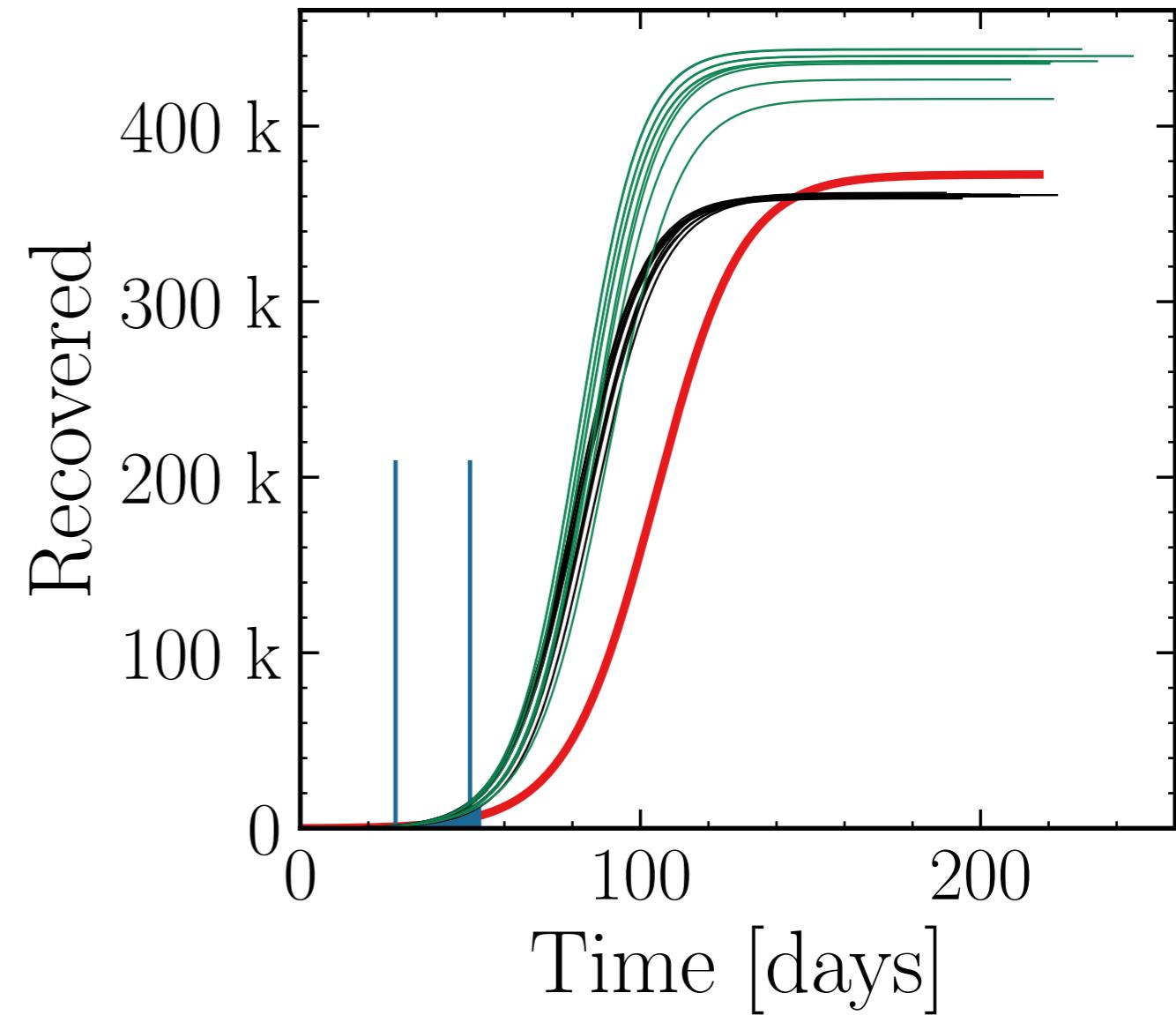
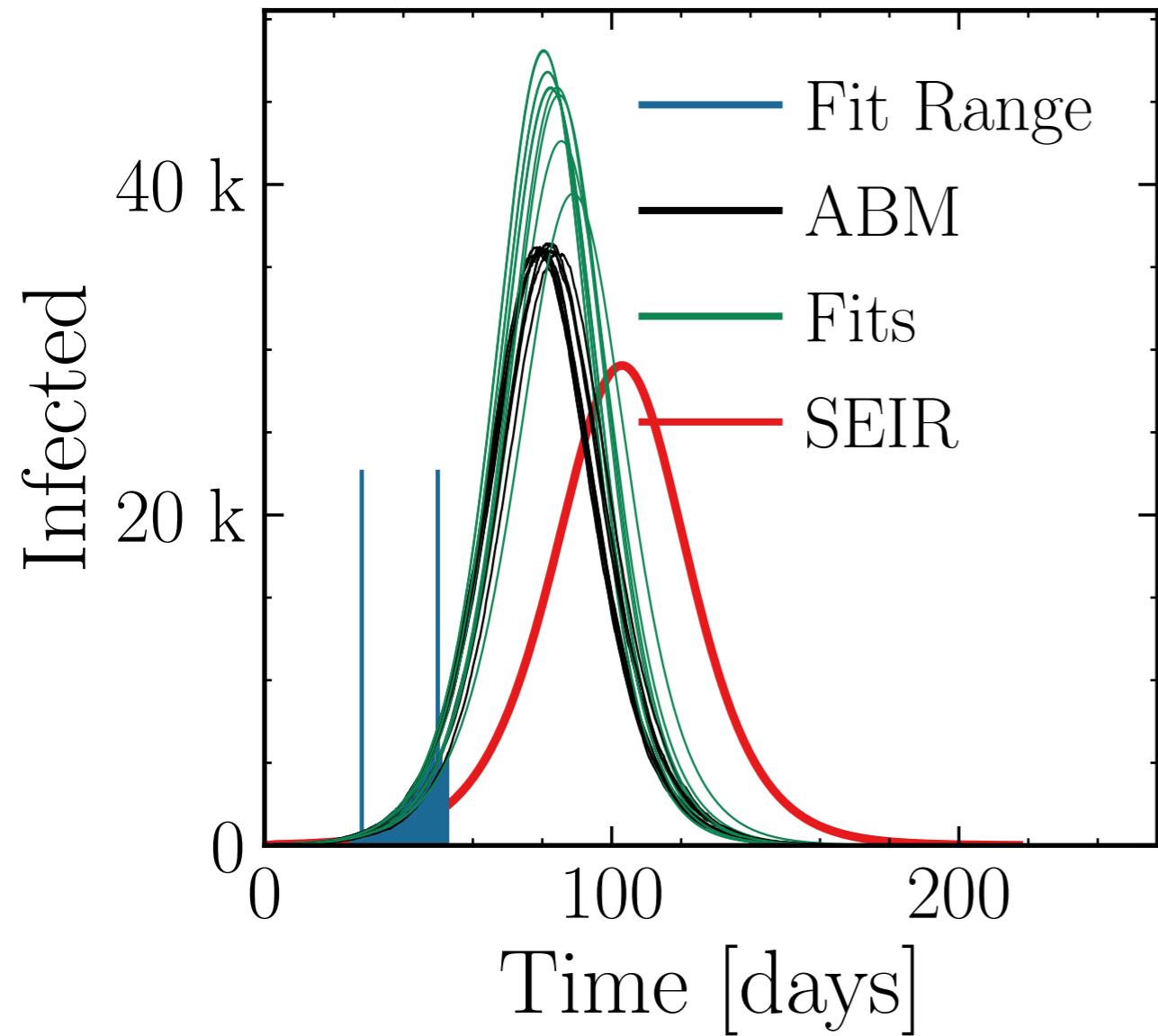
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 46_{-3}^{+1.8} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.26 \pm 0.022$$

$$R_{\infty}^{\text{fit}} = 437_{-11}^{+6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.208 \pm 0.0072$$



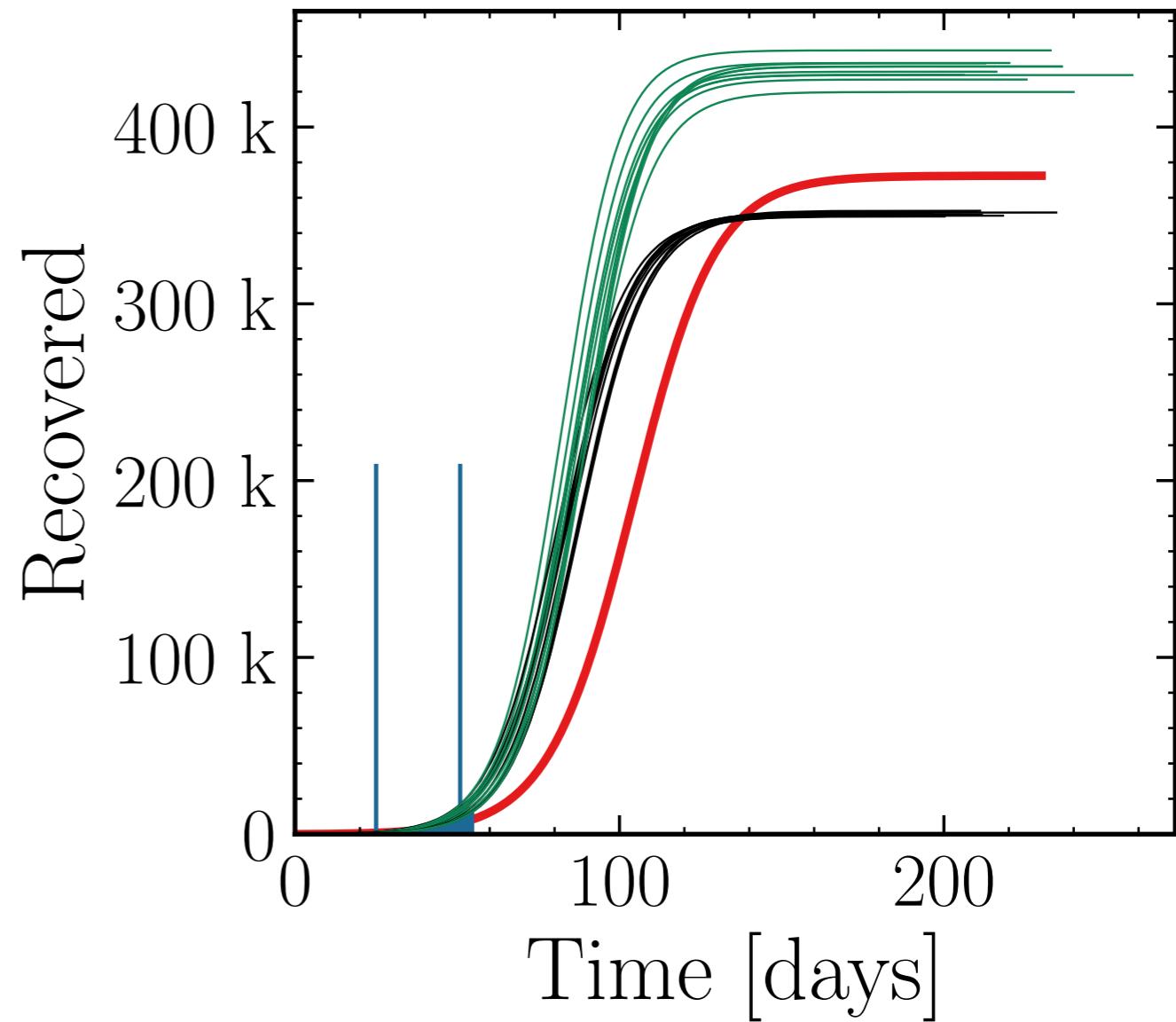
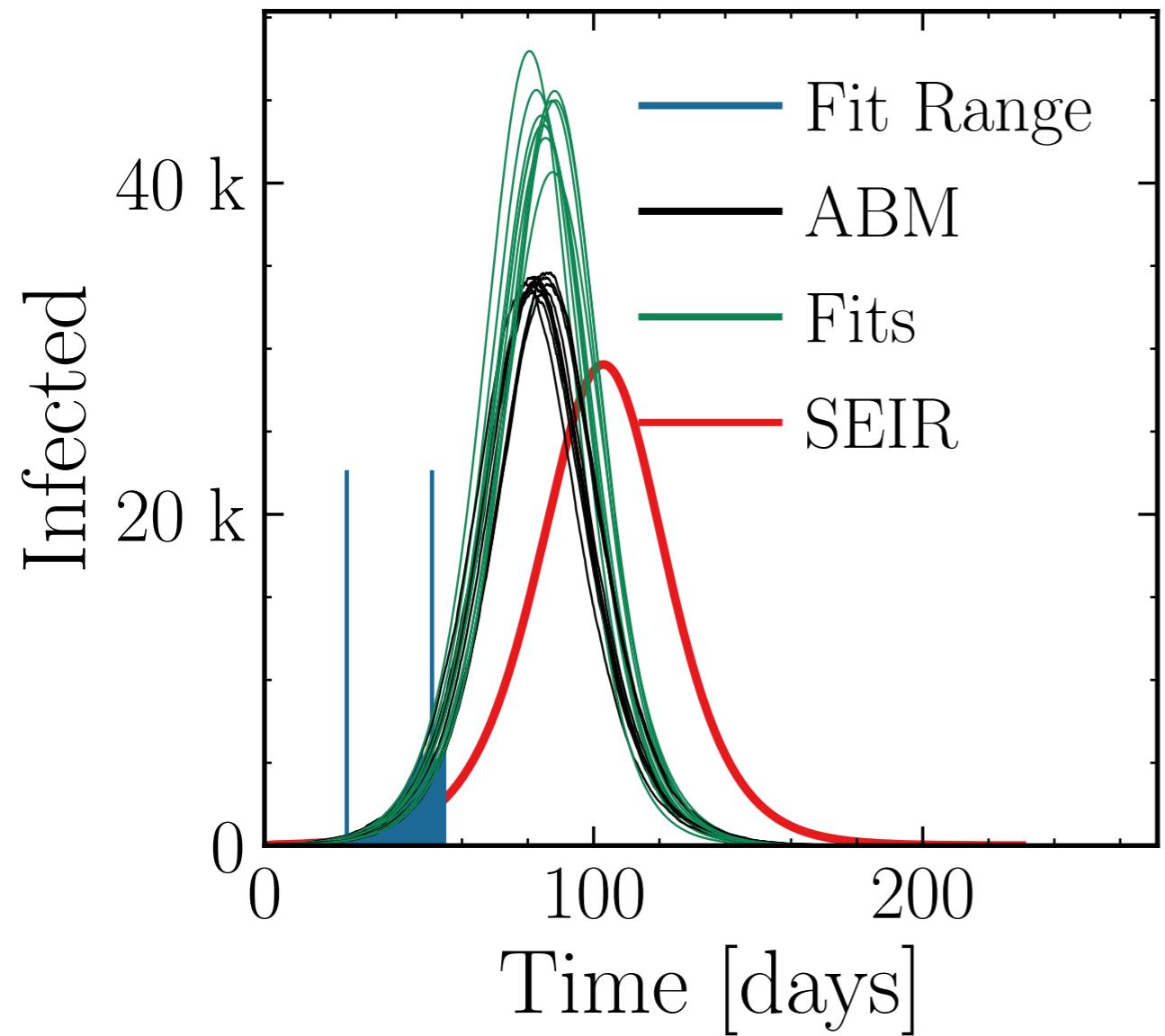
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 44^{+1.5}_{-1.4} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.3 \pm 0.019$$

$$R_{\infty}^{\text{fit}} = 432^{+5}_{-5} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.231 \pm 0.0054$$



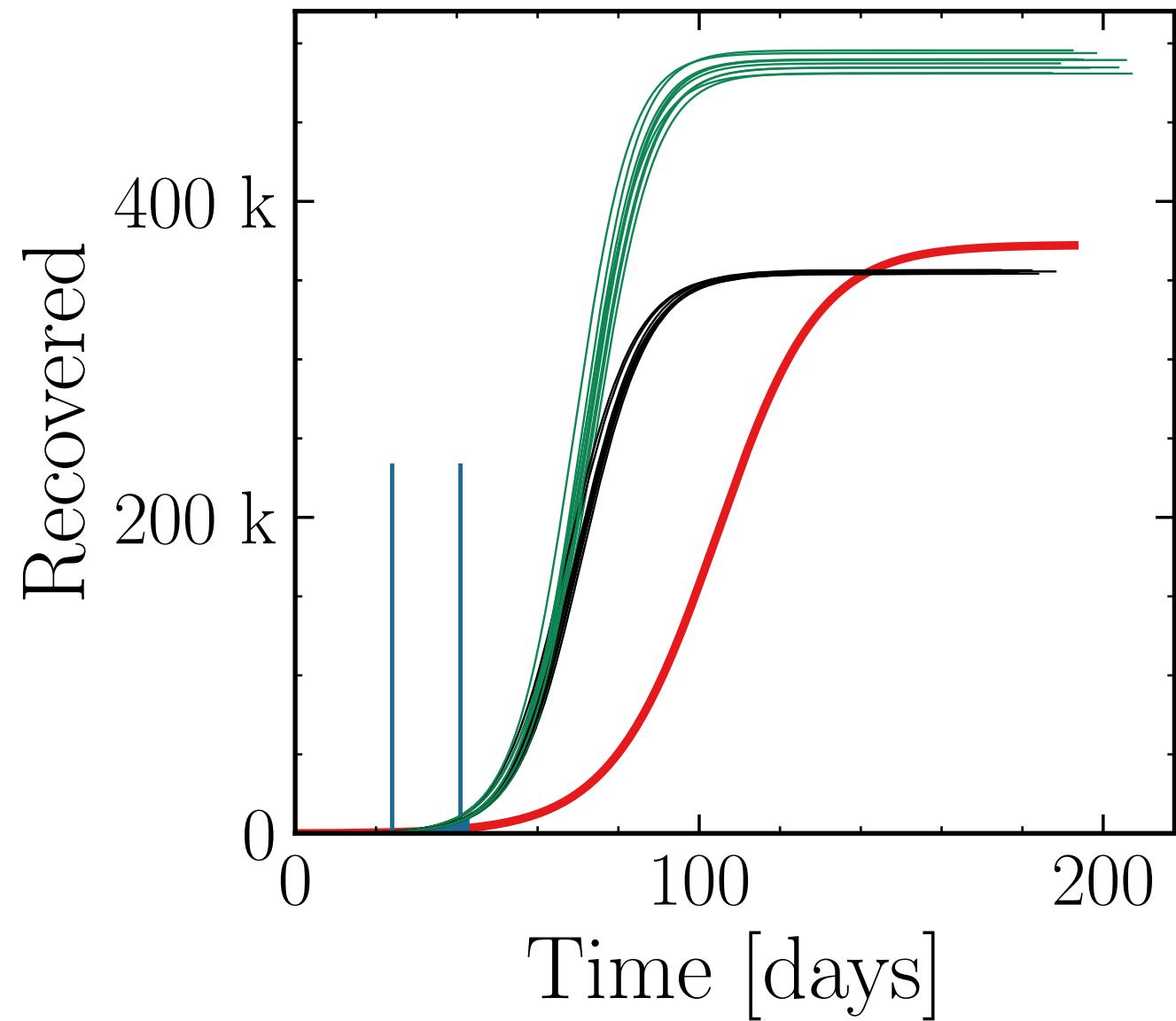
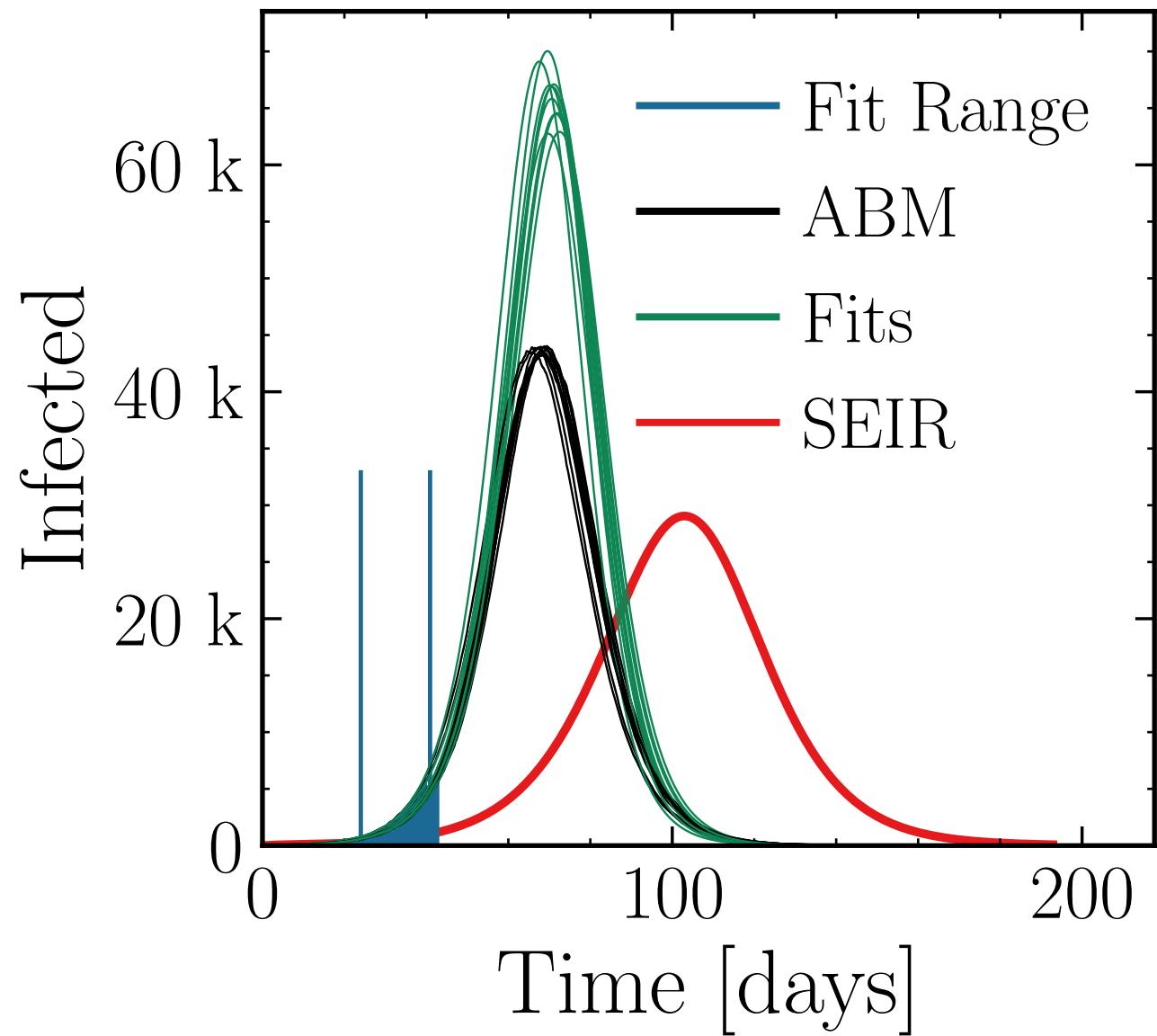
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 66_{-3}^{+3} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.51 \pm 0.019$$

$$R_{\infty}^{\text{fit}} = 488_{-6}^{+6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.373 \pm 0.0046$$



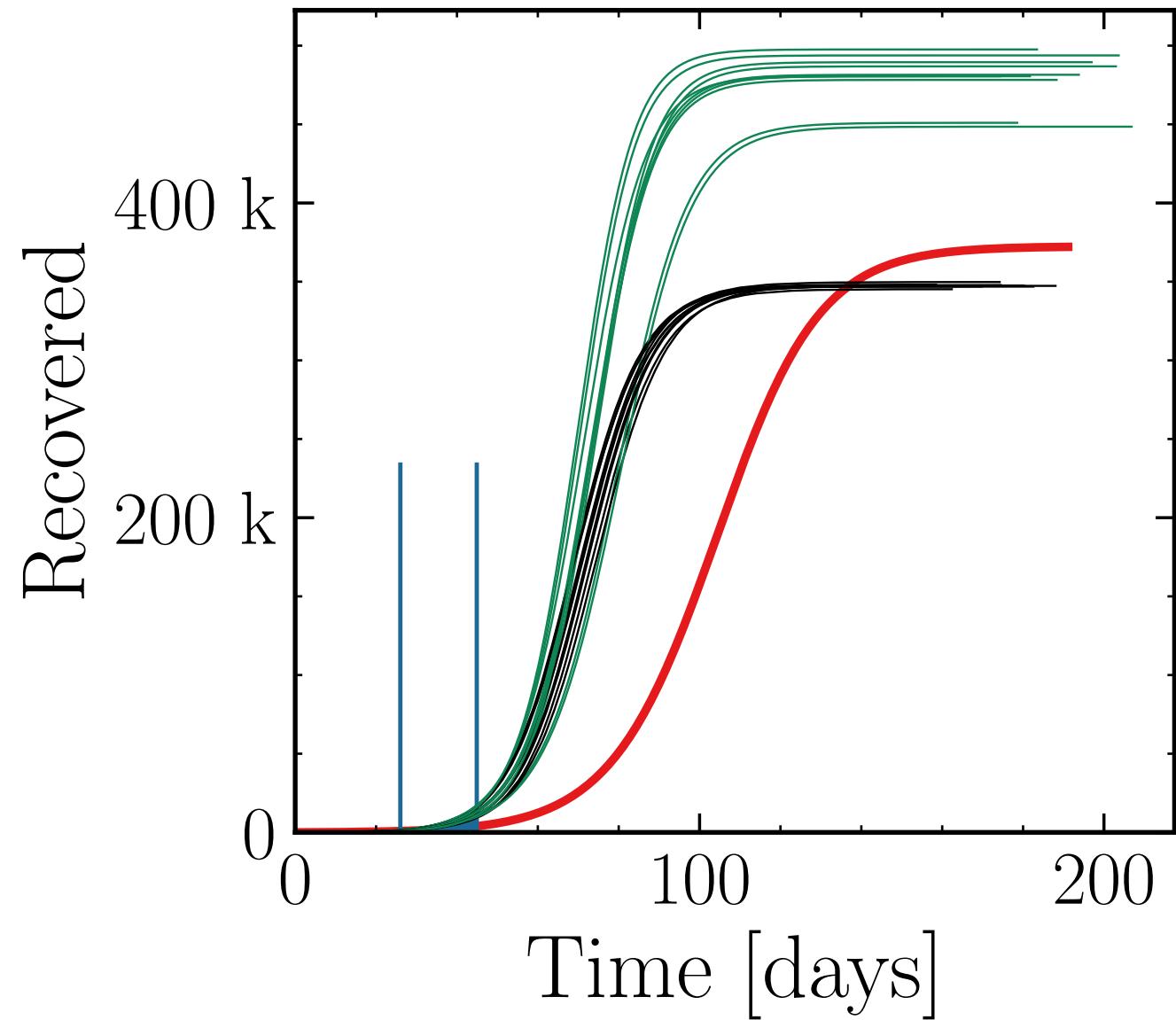
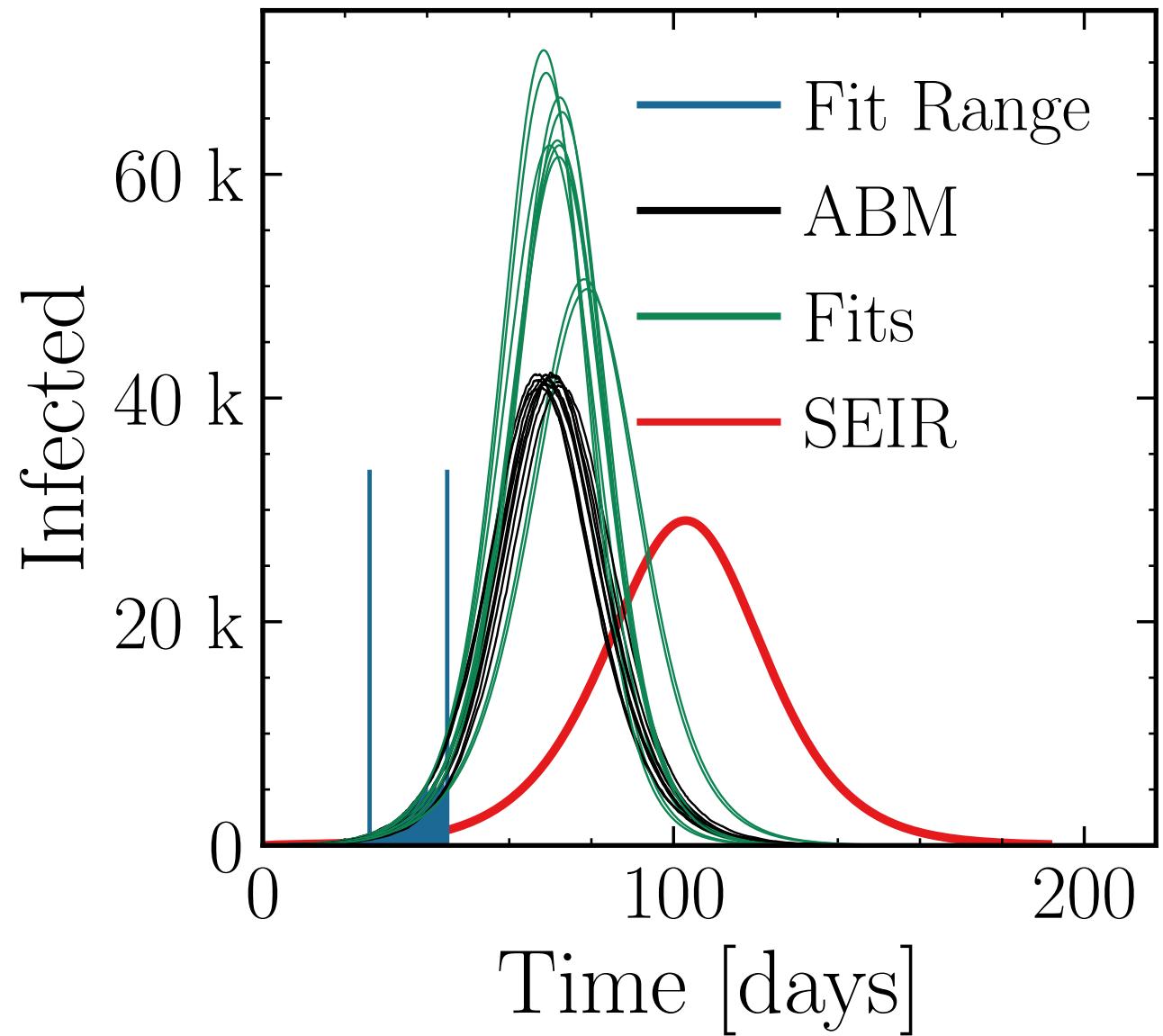
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 63_{-12}^{+6} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.49 \pm 0.050$$

$$R_{\infty}^{\text{fit}} = 48_{-3}^{+1.2} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.38 \pm 0.014$$



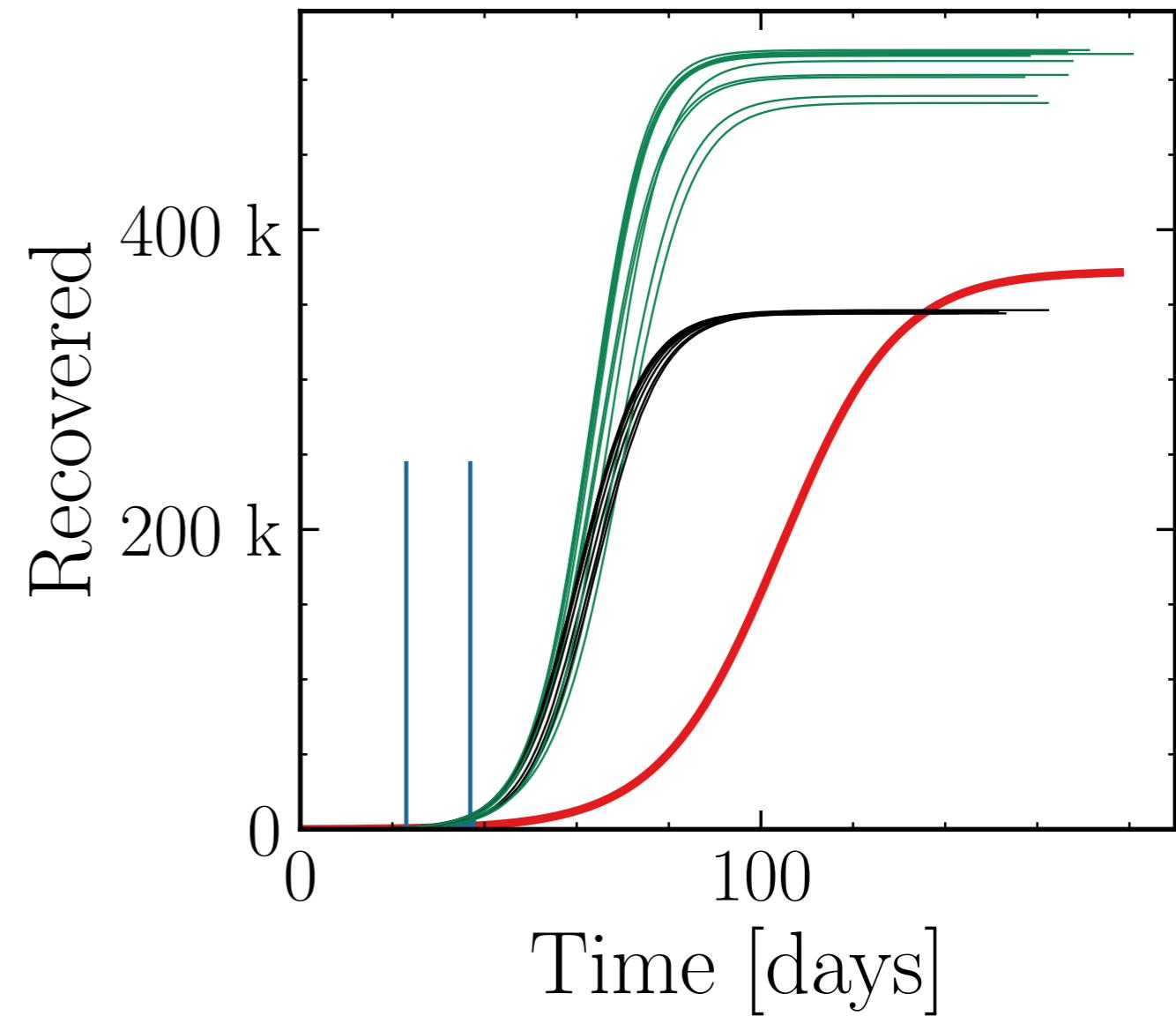
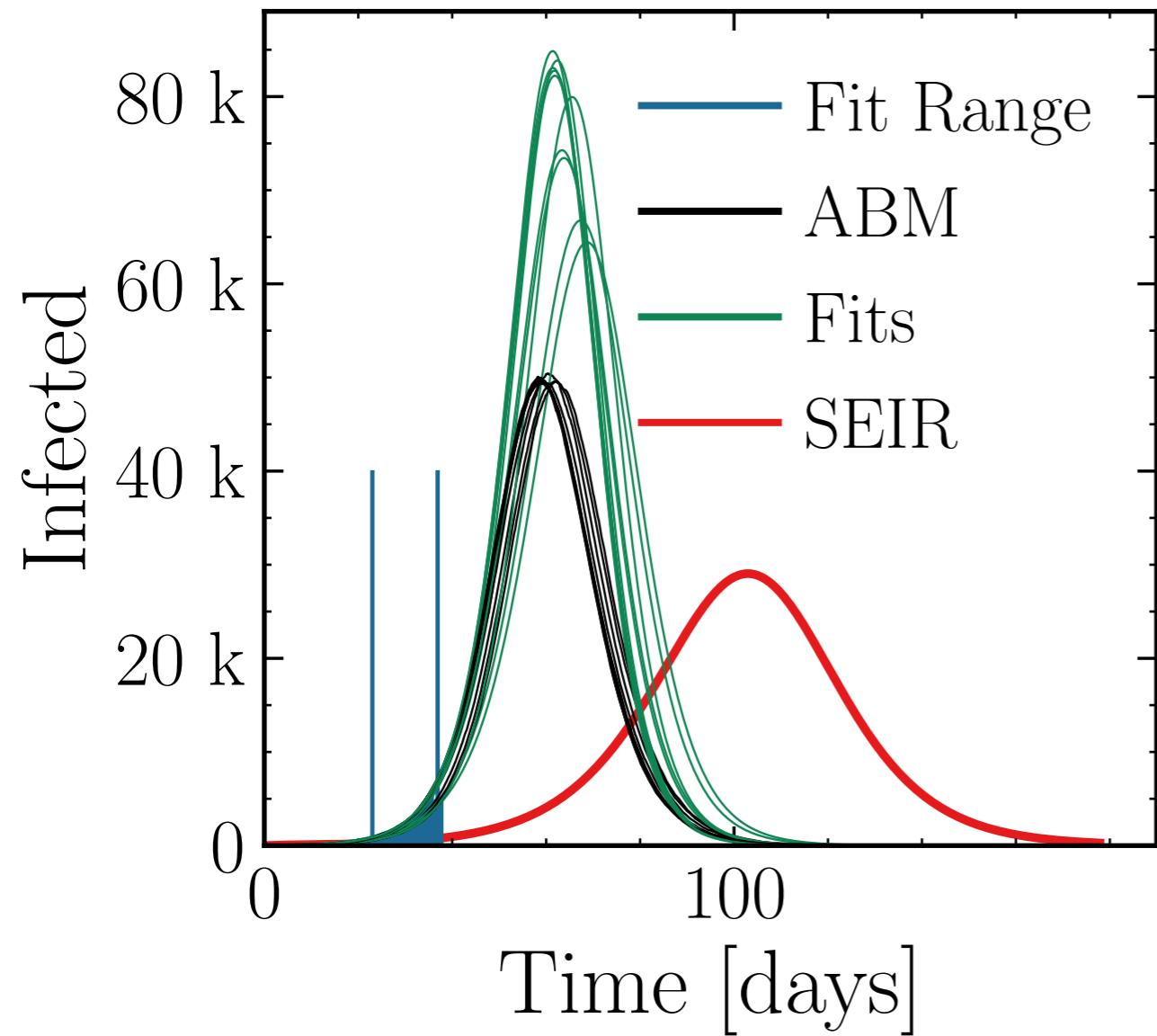
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 81^{+3}_{-14} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.56 \pm 0.046$$

$$R_{\infty}^{\text{fit}} = 514^{+4}_{-20} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.47 \pm 0.011$$



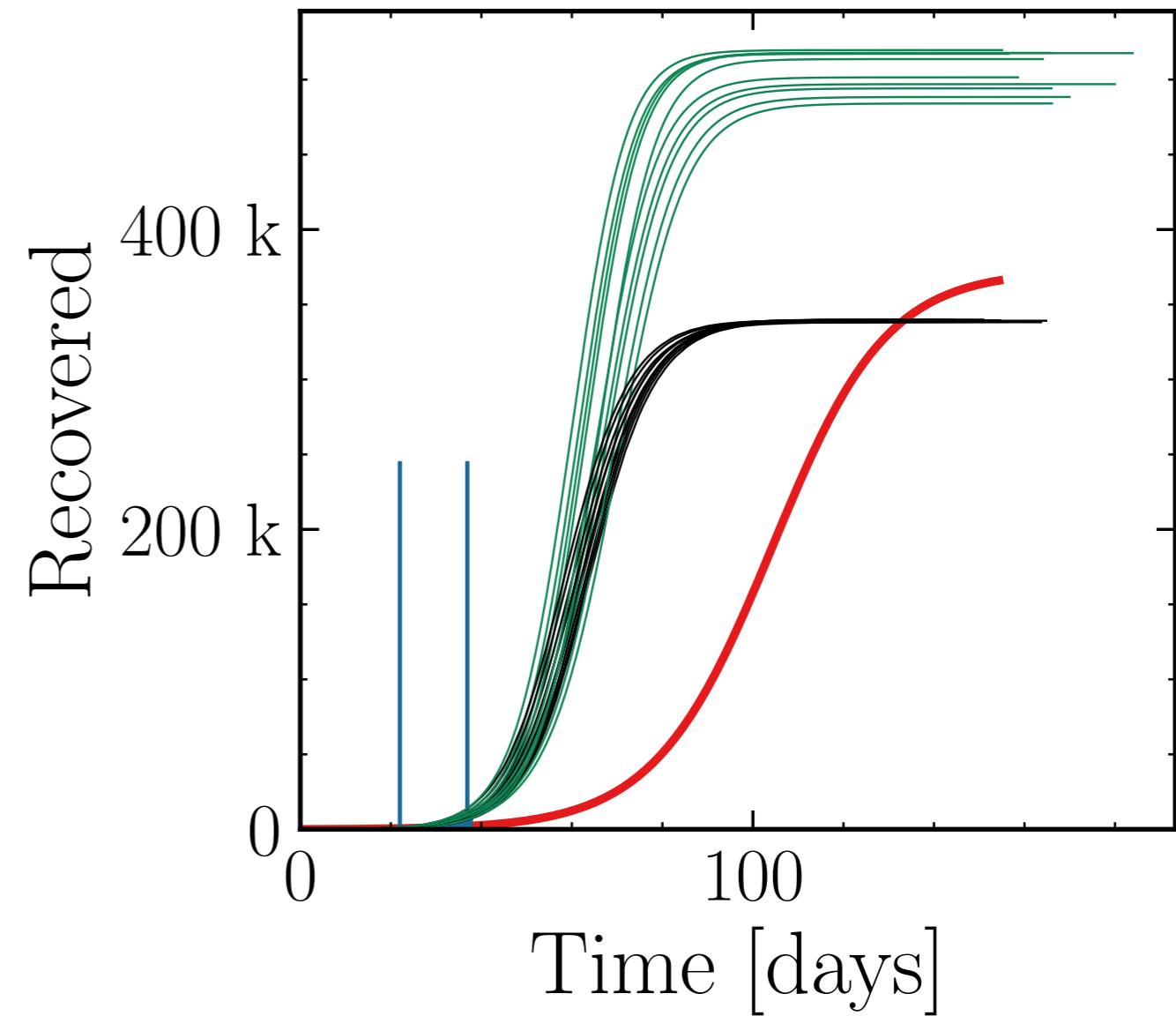
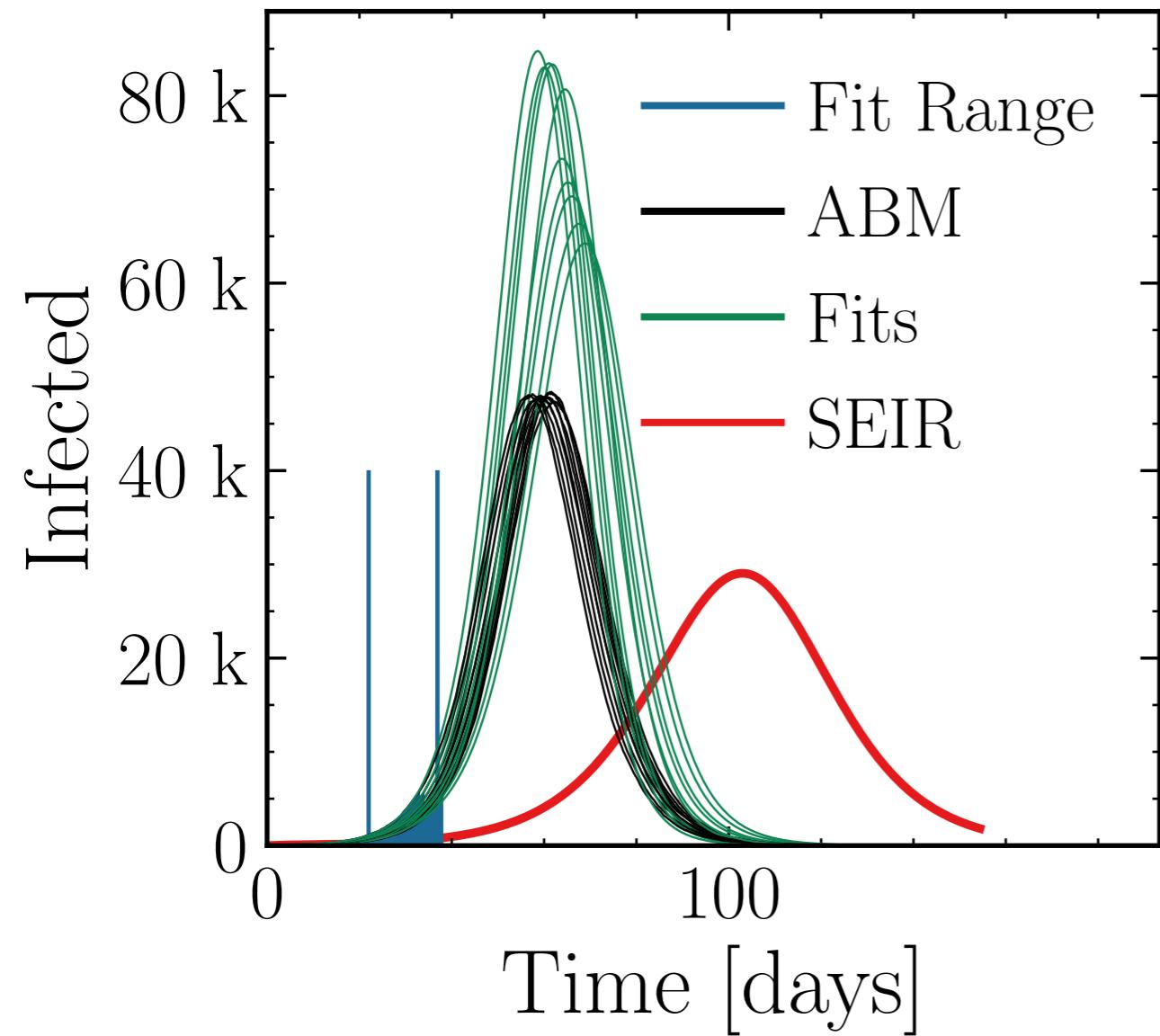
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 76_{-10}^{+8} \cdot 10^3$$

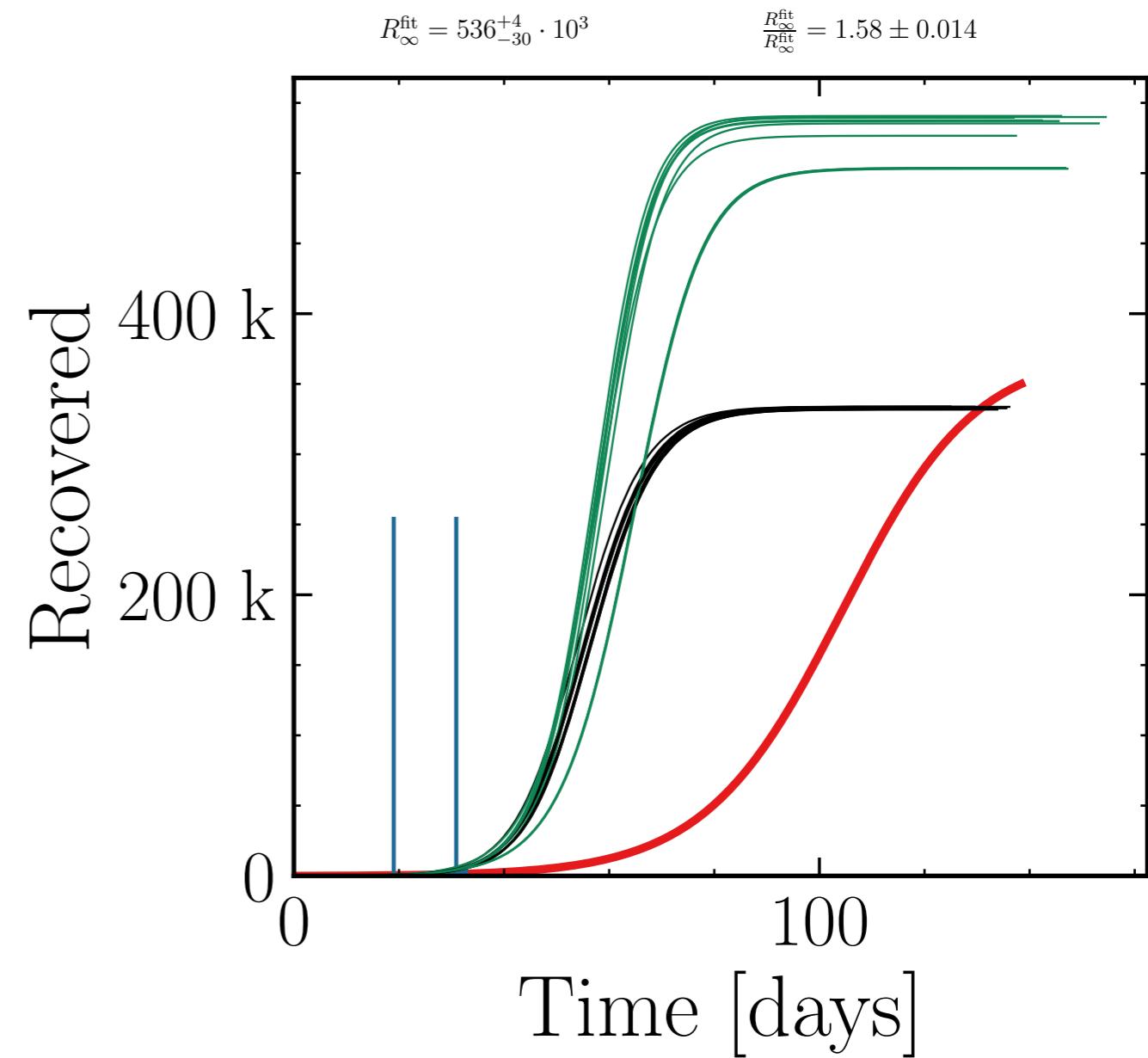
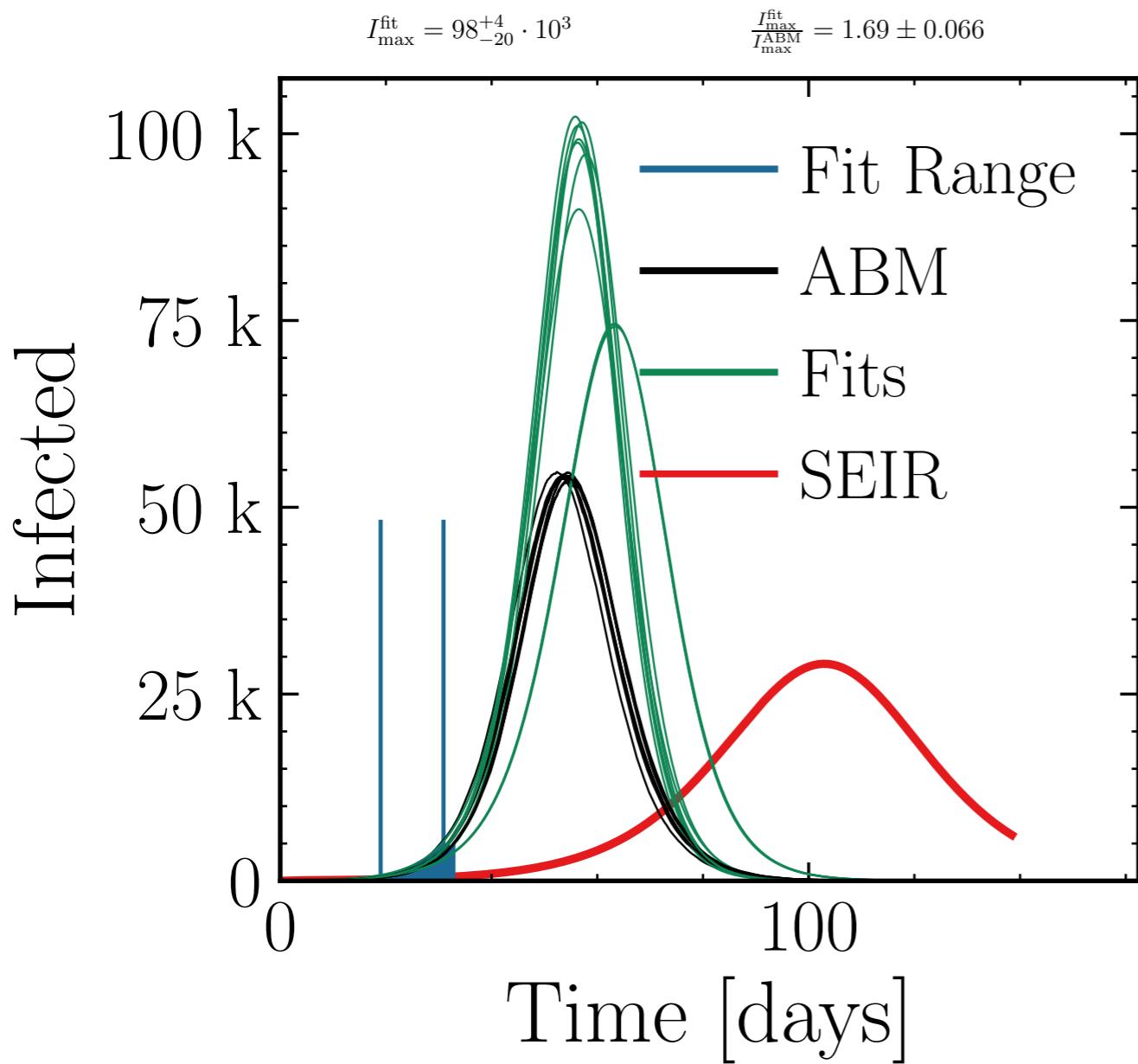
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.58 \pm 0.049$$

$$R_{\infty}^{\text{fit}} = 51_{-1.8}^{+1.2} \cdot 10^4$$

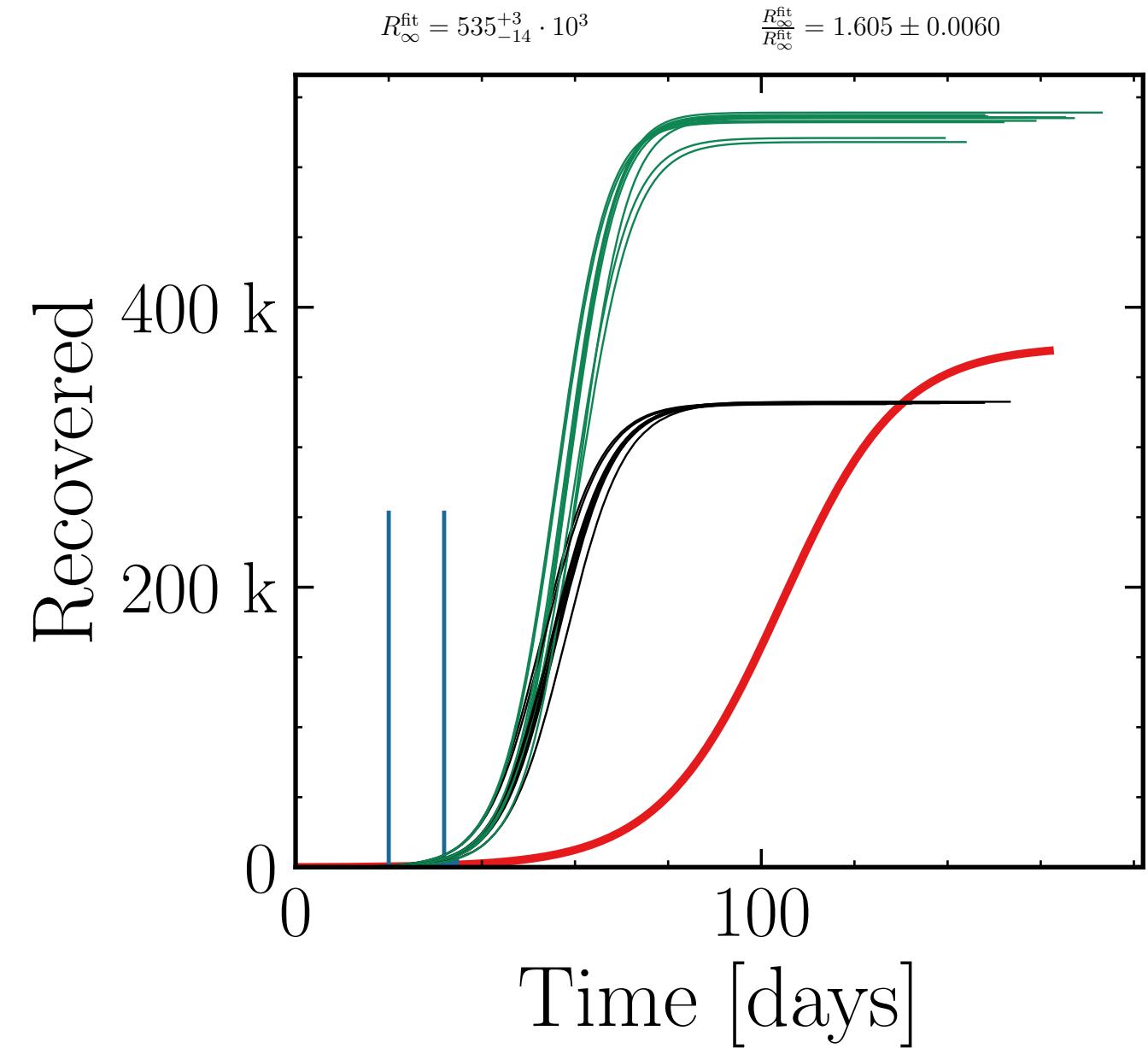
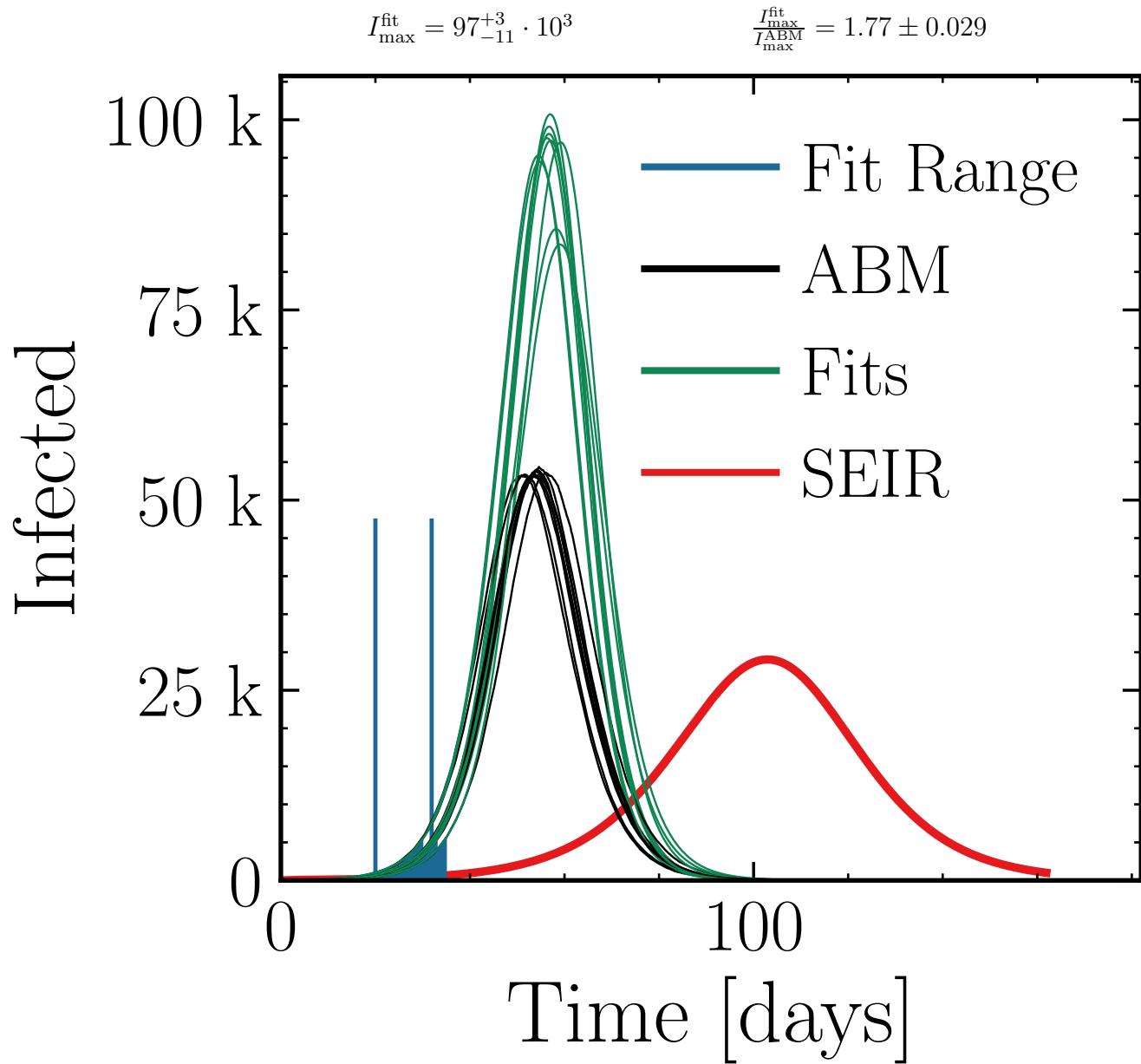
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.49 \pm 0.012$$



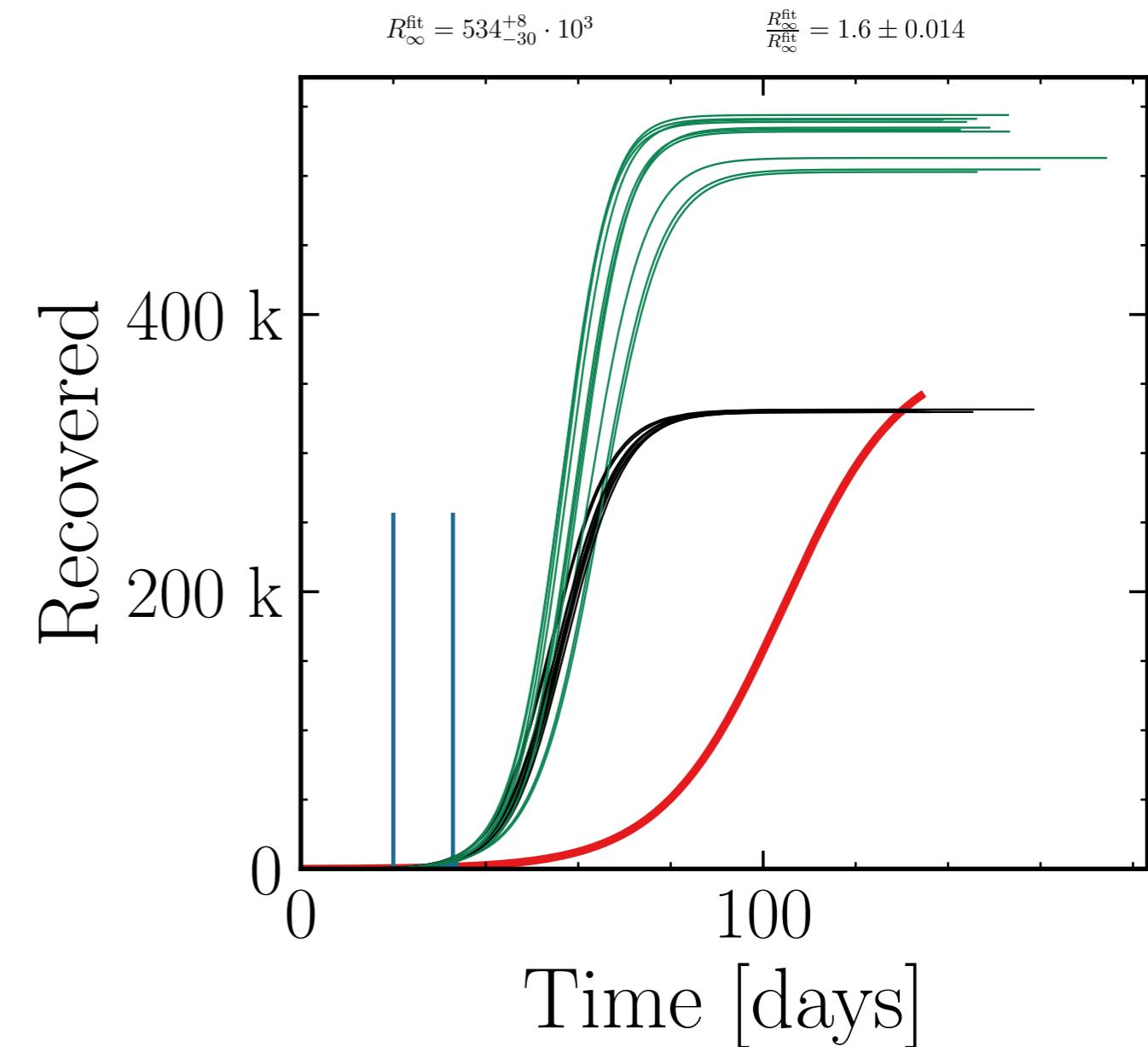
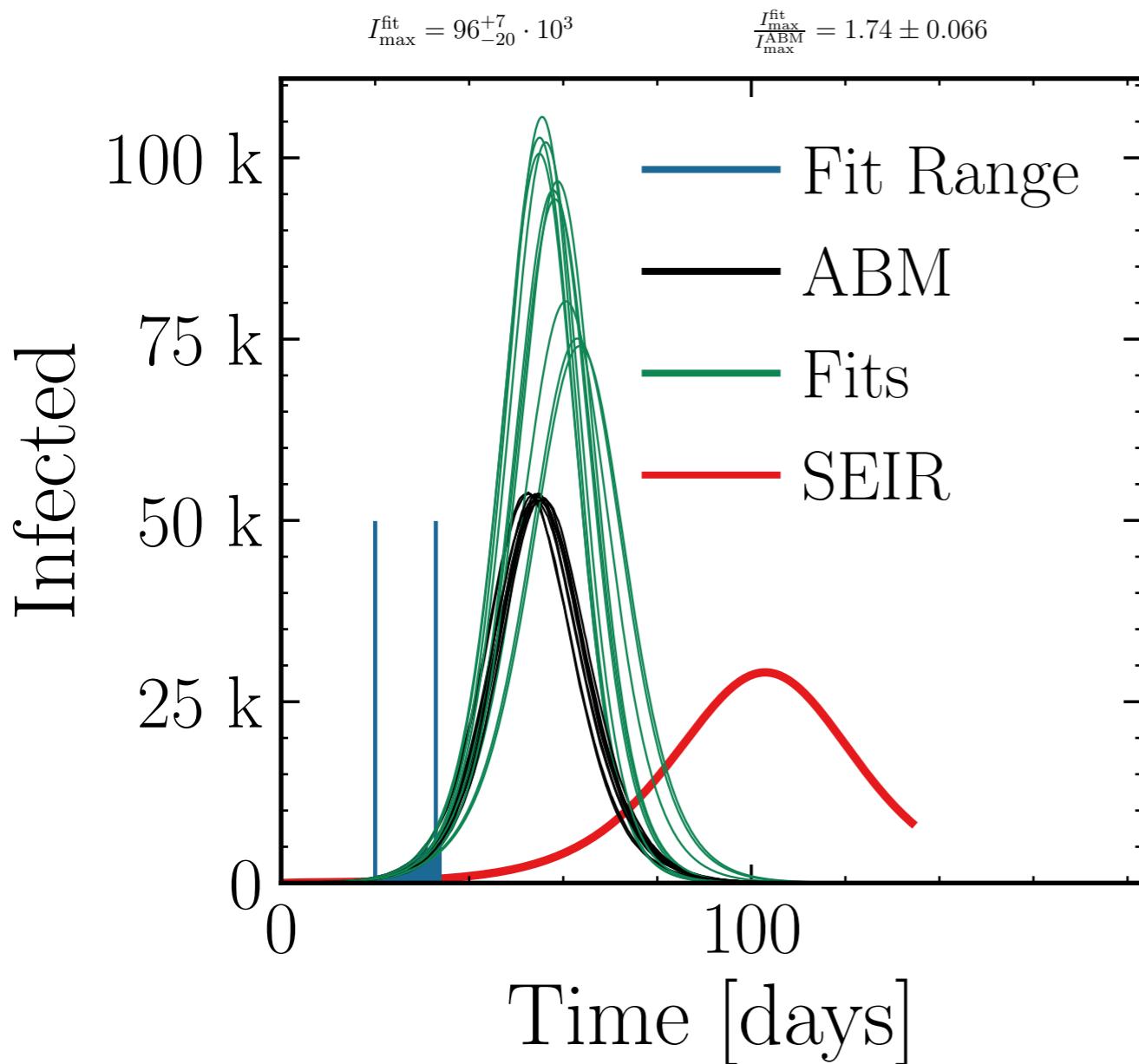
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



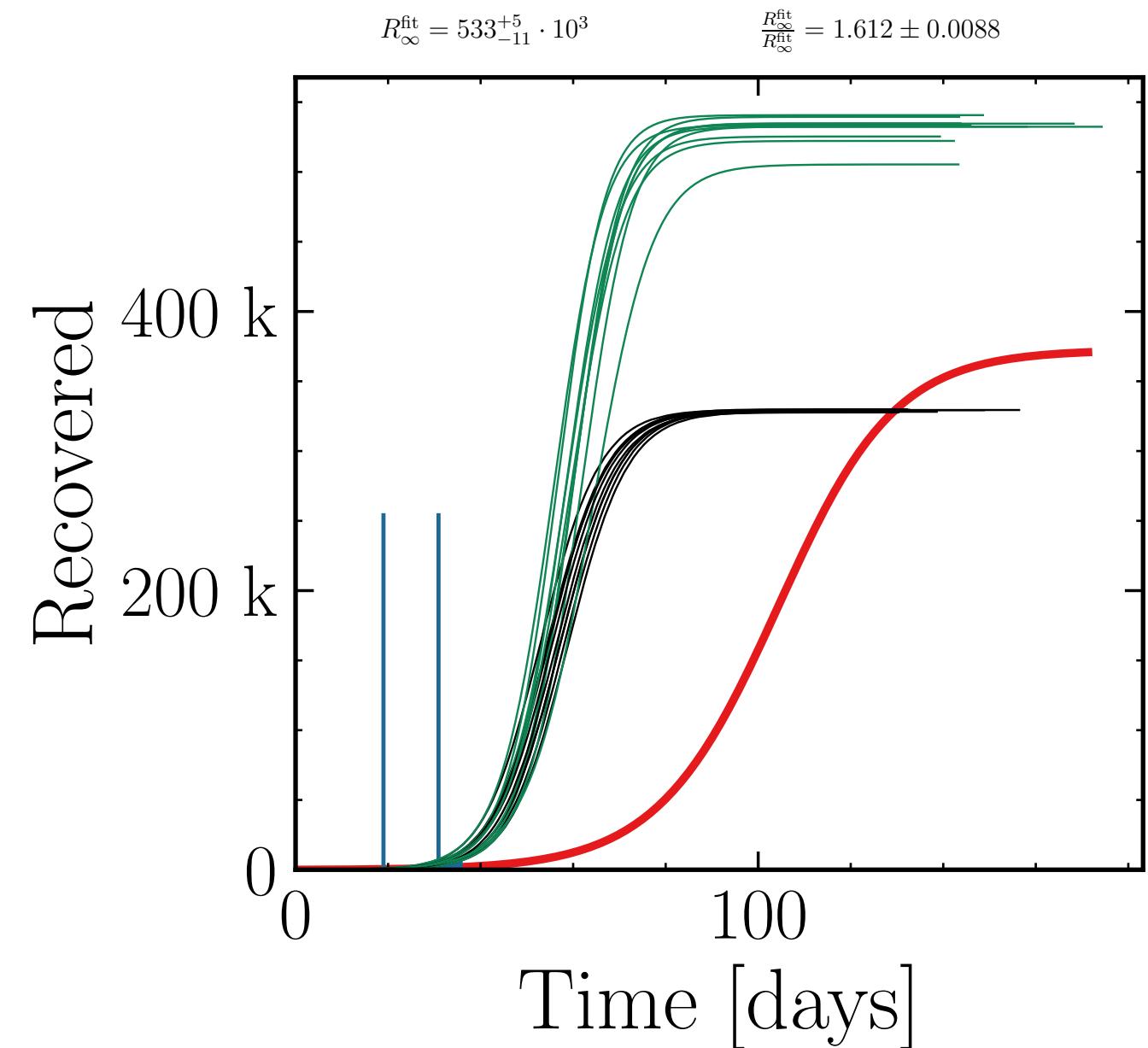
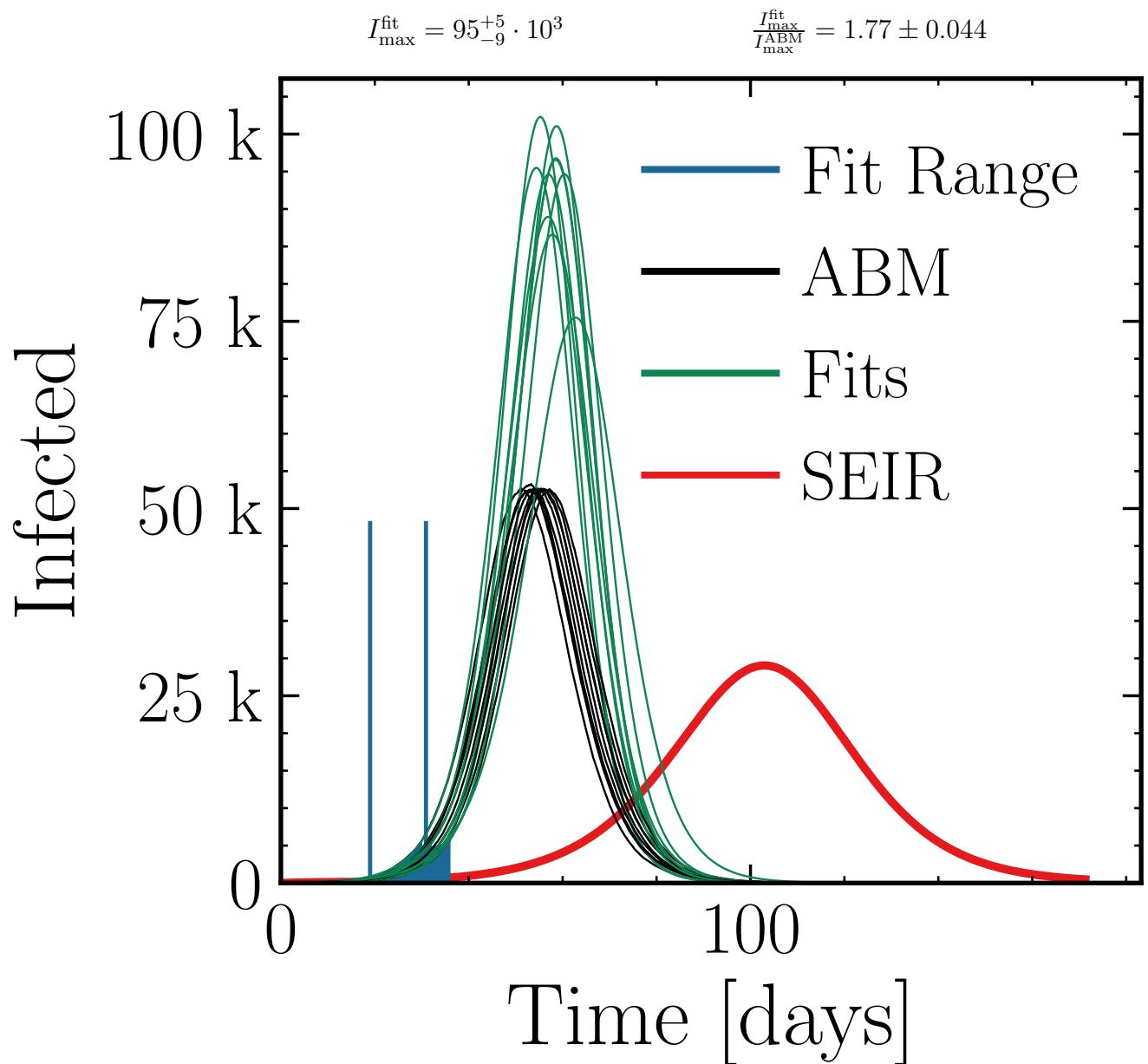
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



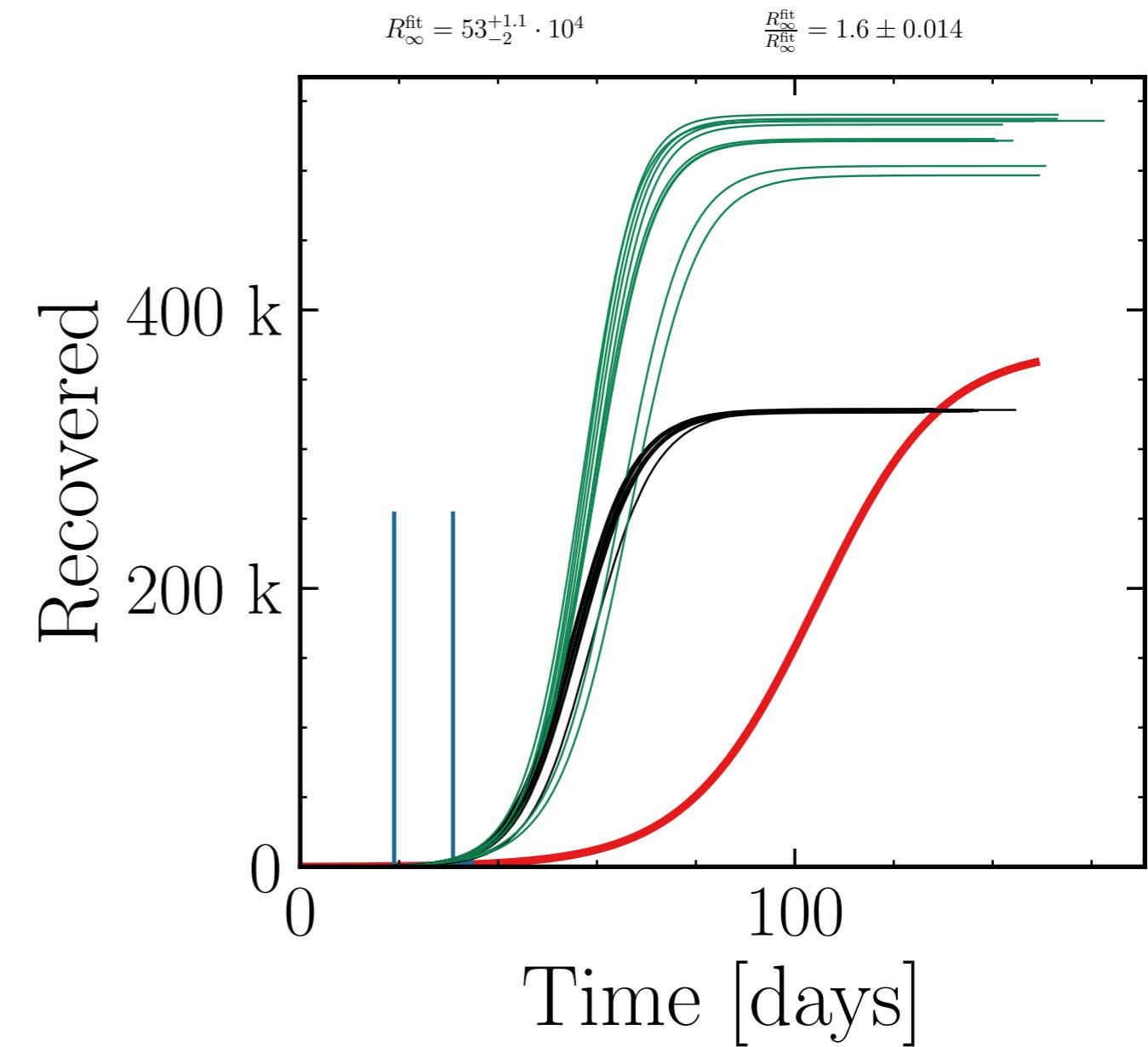
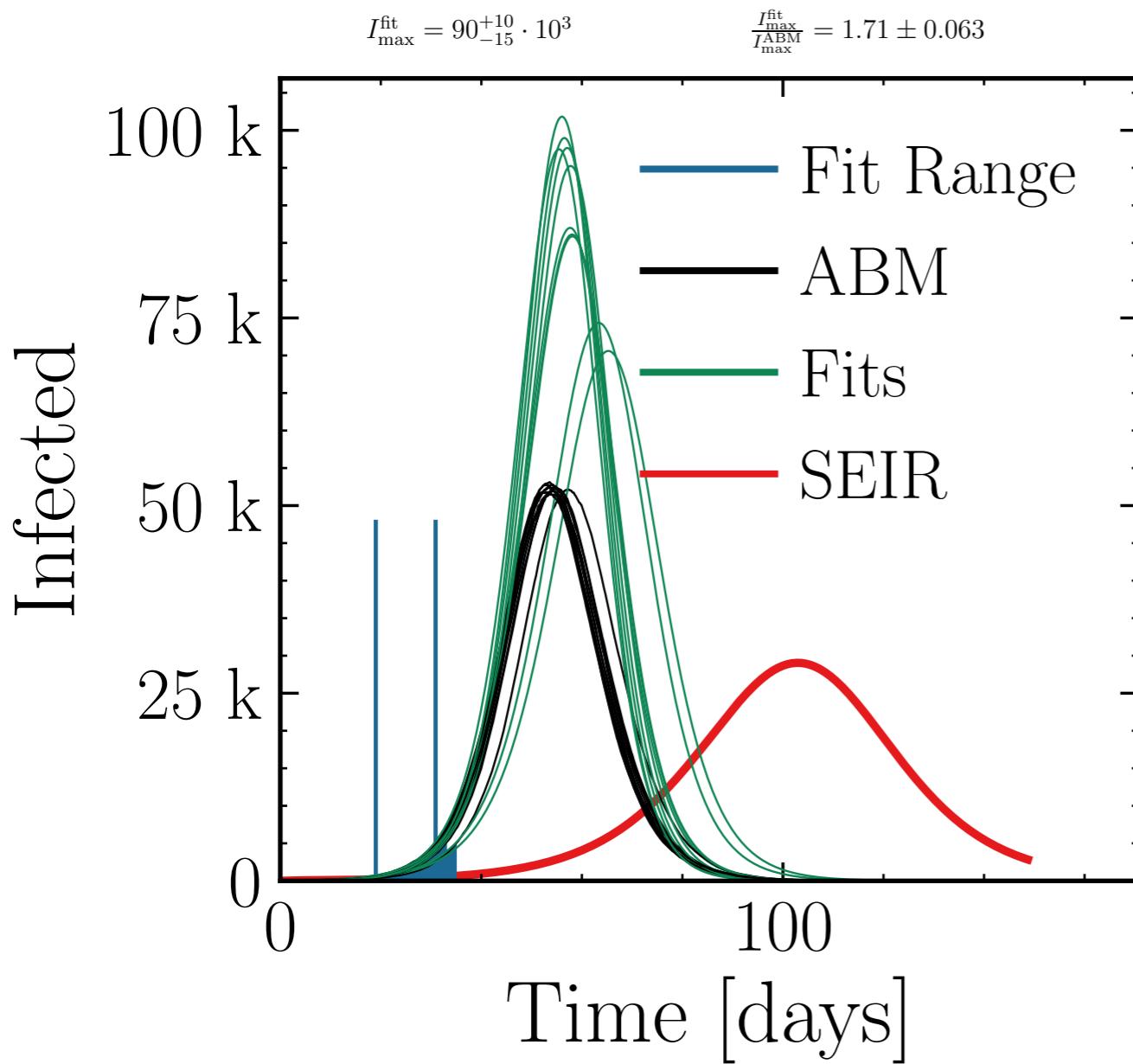
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



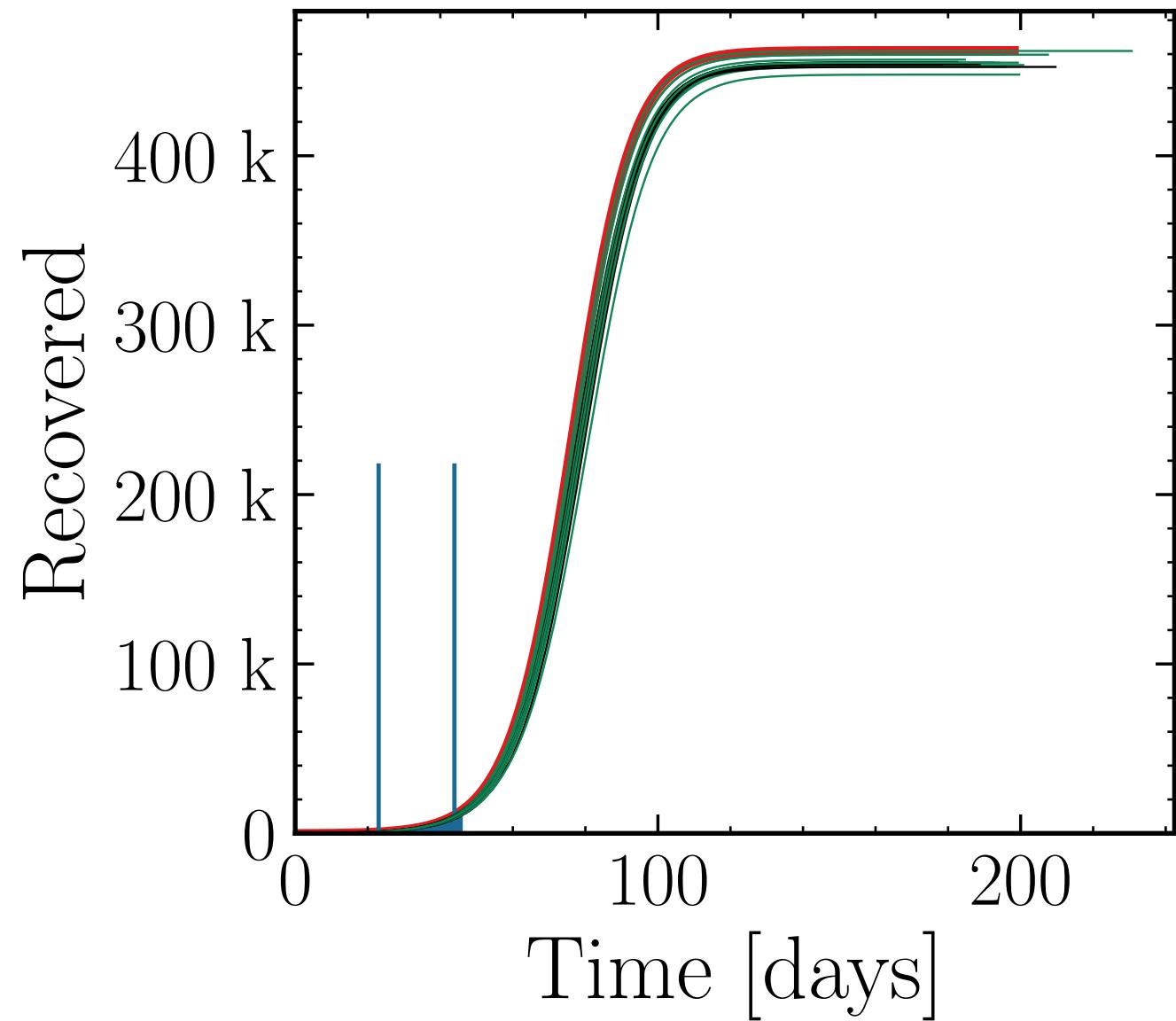
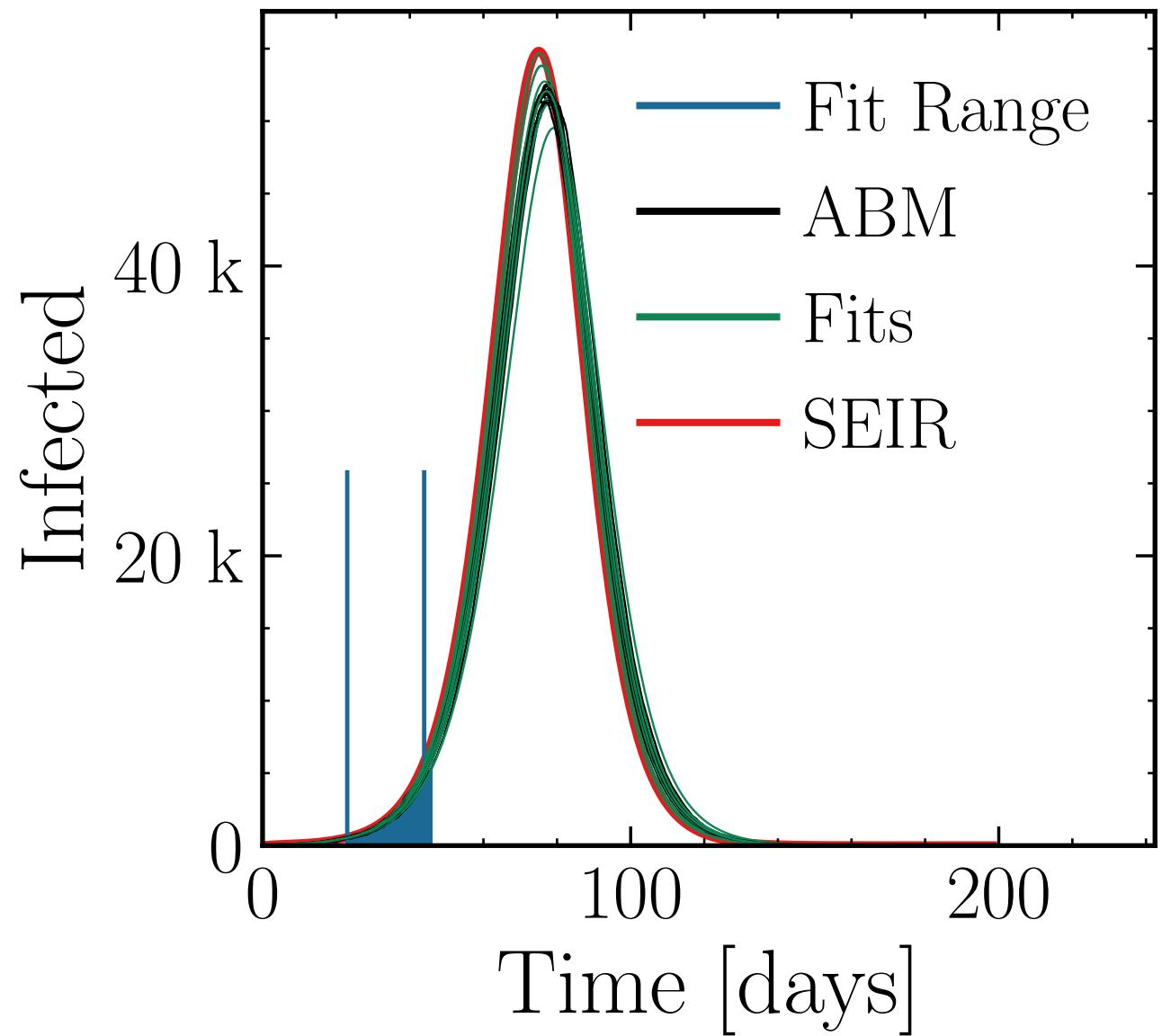
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 52.1^{+1.8}_{-0.9} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.007 \pm 0.0093$$

$$R_{\infty}^{\text{fit}} = 455^{+5}_{-3} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.003 \pm 0.0030$$



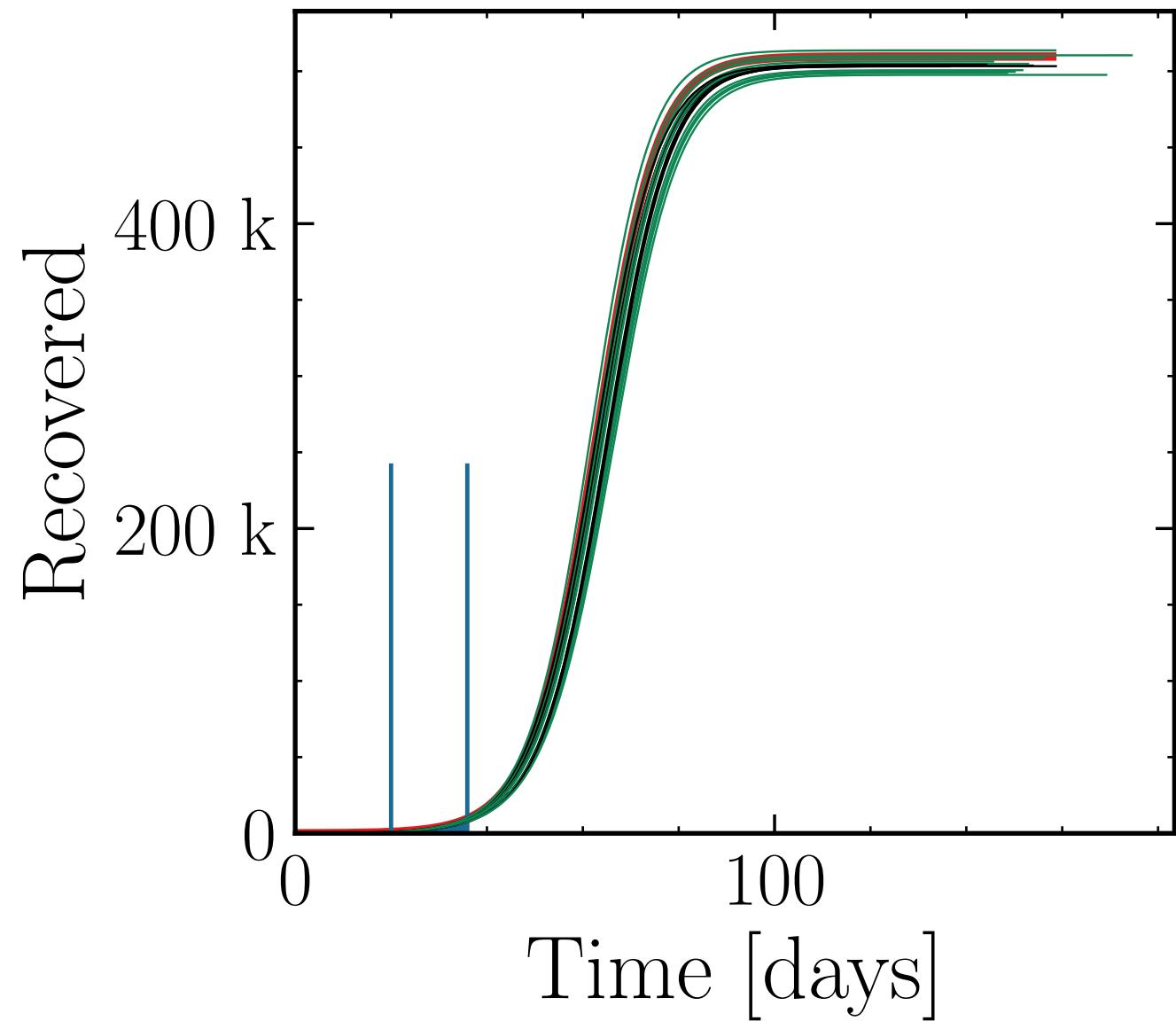
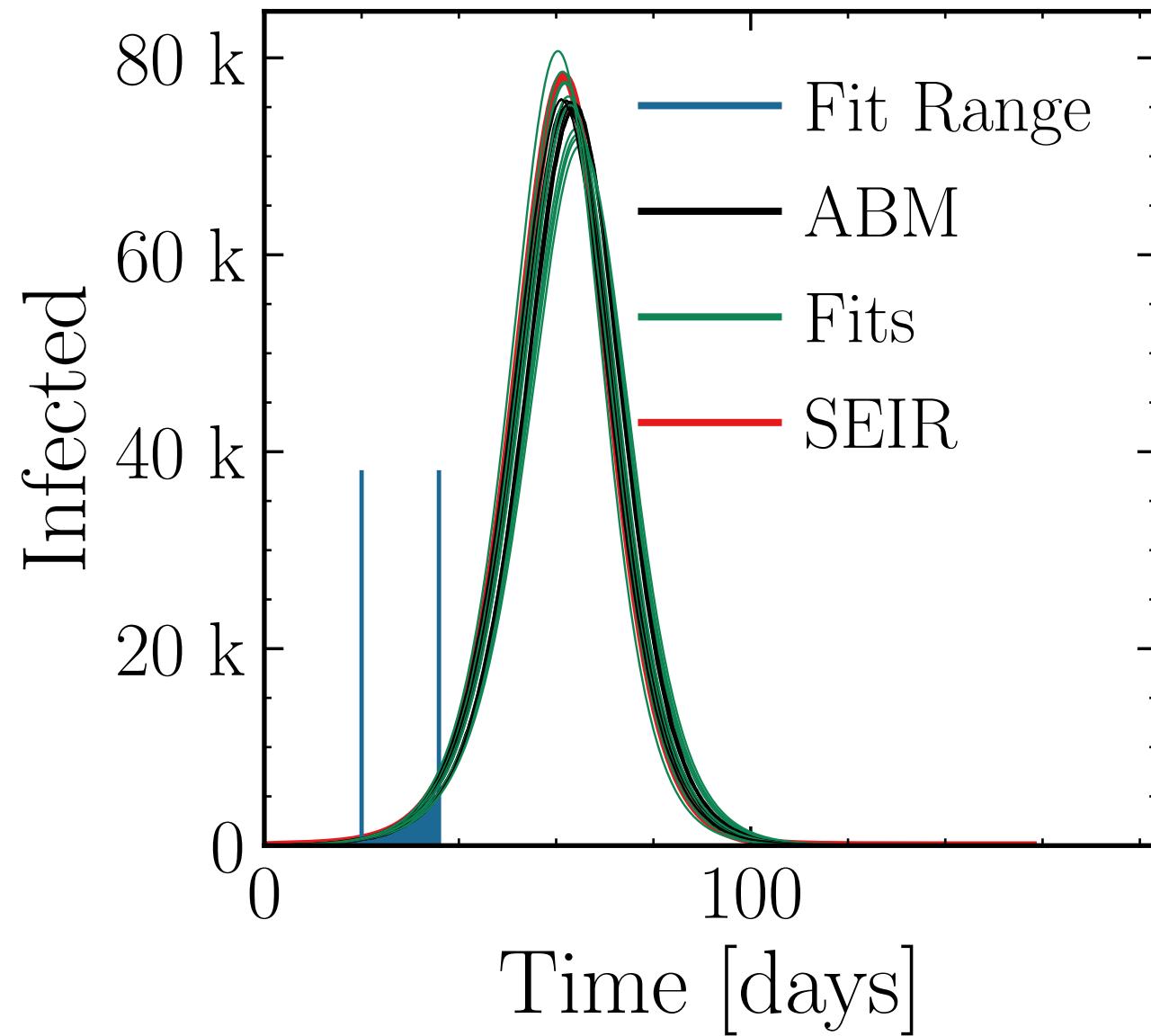
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retry}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 76_{-4}^{+3} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1 \pm 0.012$$

$$R_{\infty}^{\text{fit}} = 506_{-6}^{+5} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{true}}} = 1.002 \pm 0.0032$$



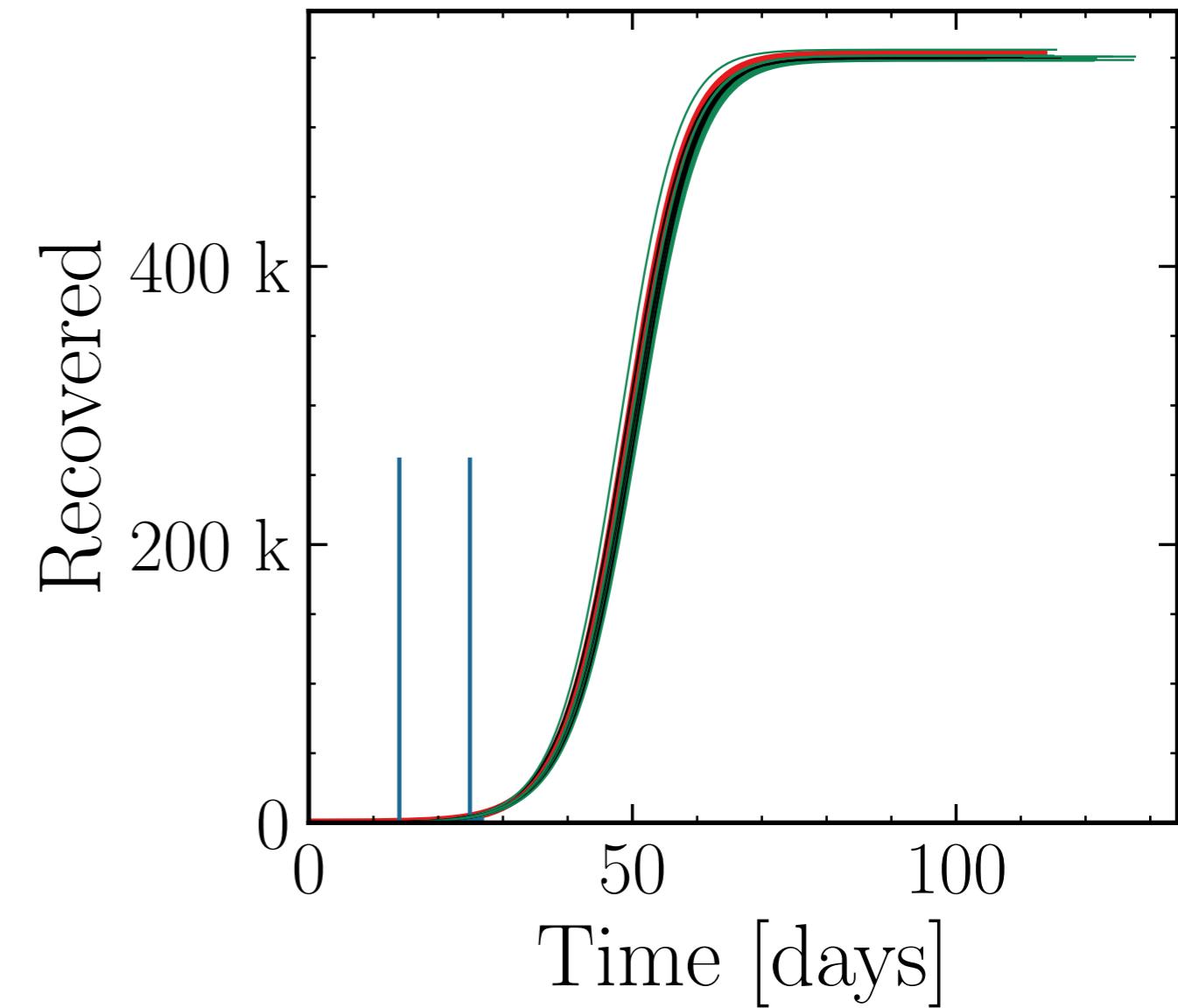
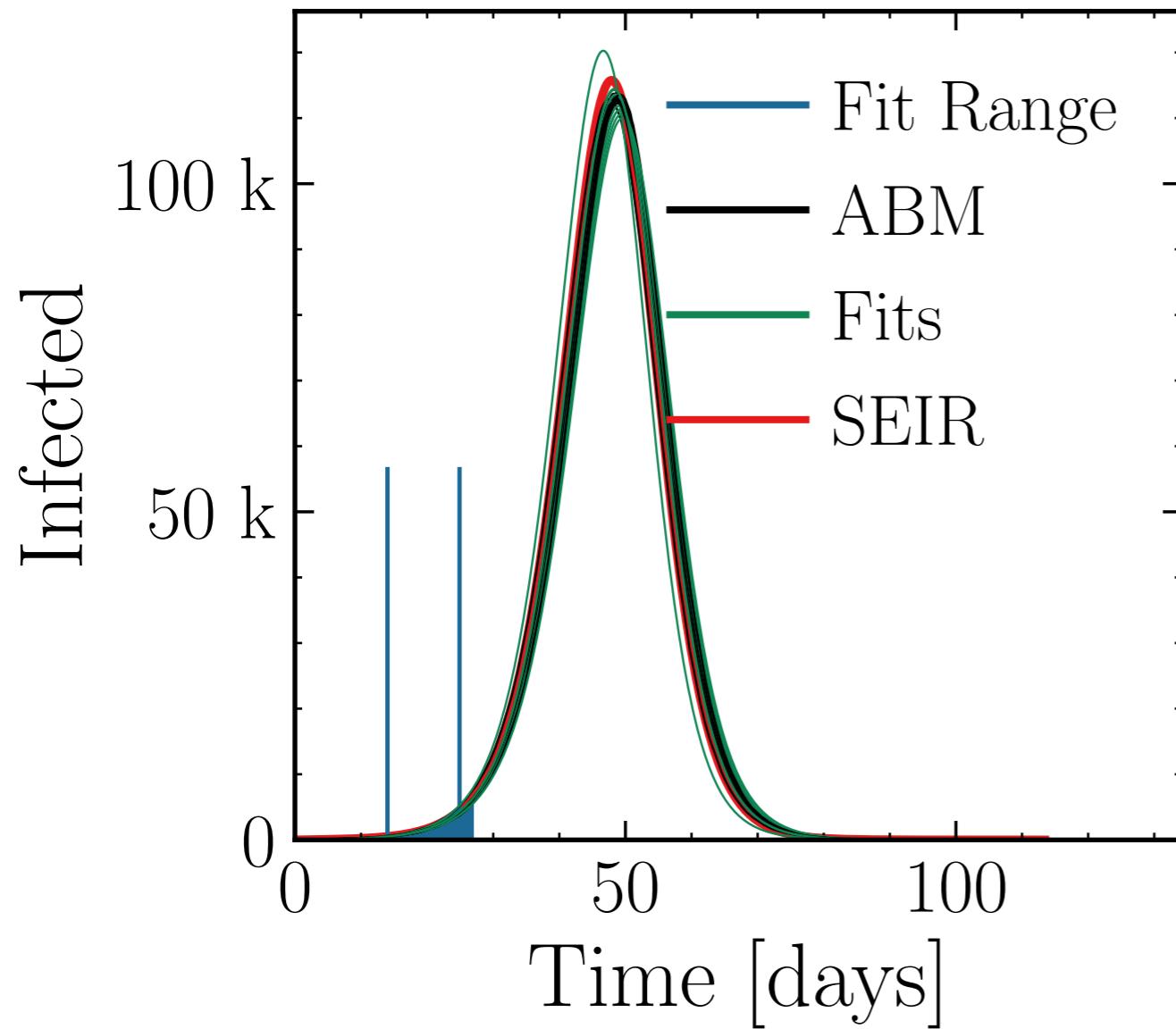
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 113_{-2}^{+1.8} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 1 \pm 0.0082$$

$$R_{\infty}^{\text{fit}} = 550_{-1.7}^{+1.4} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.001 \pm 0.0013$$



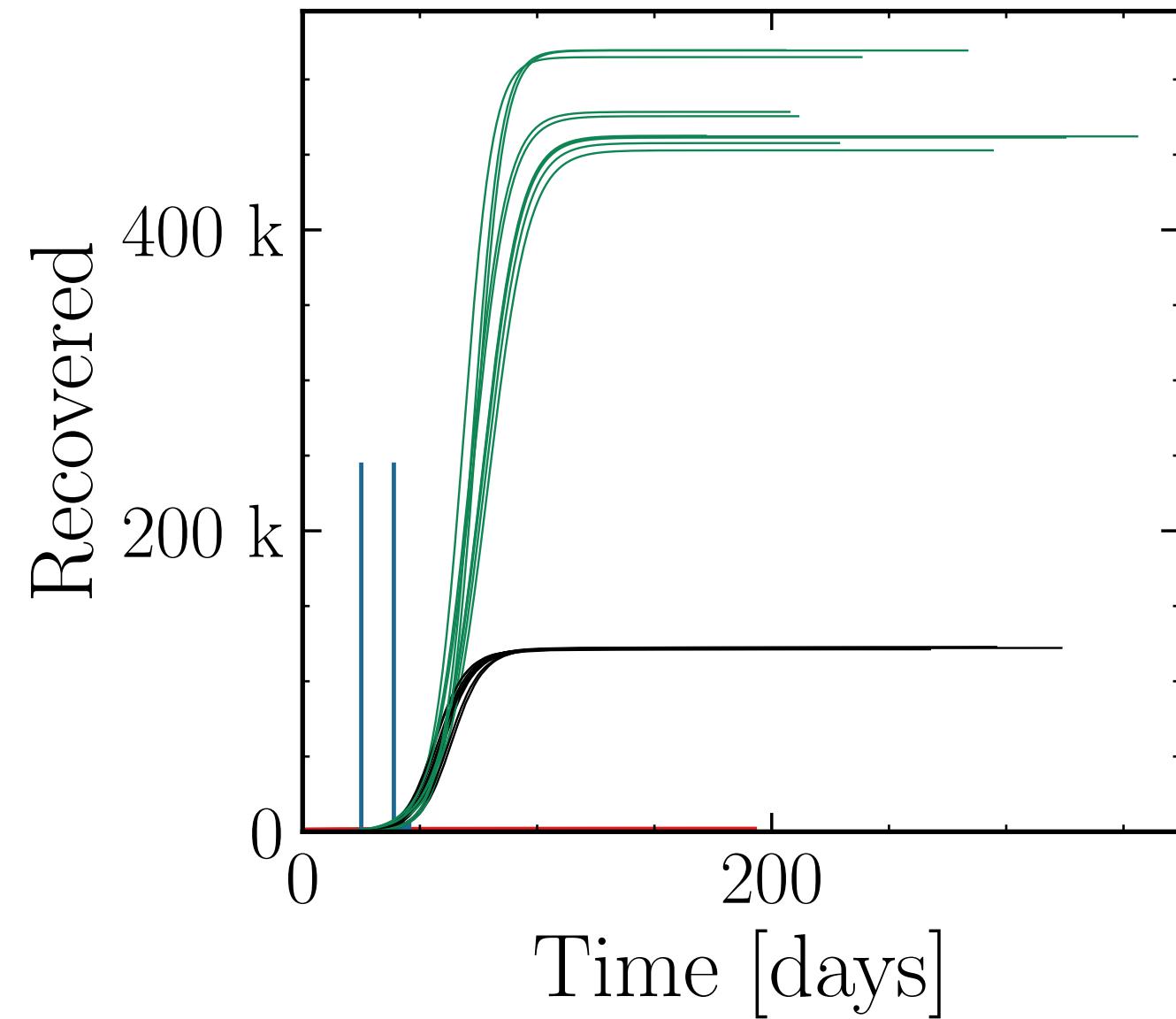
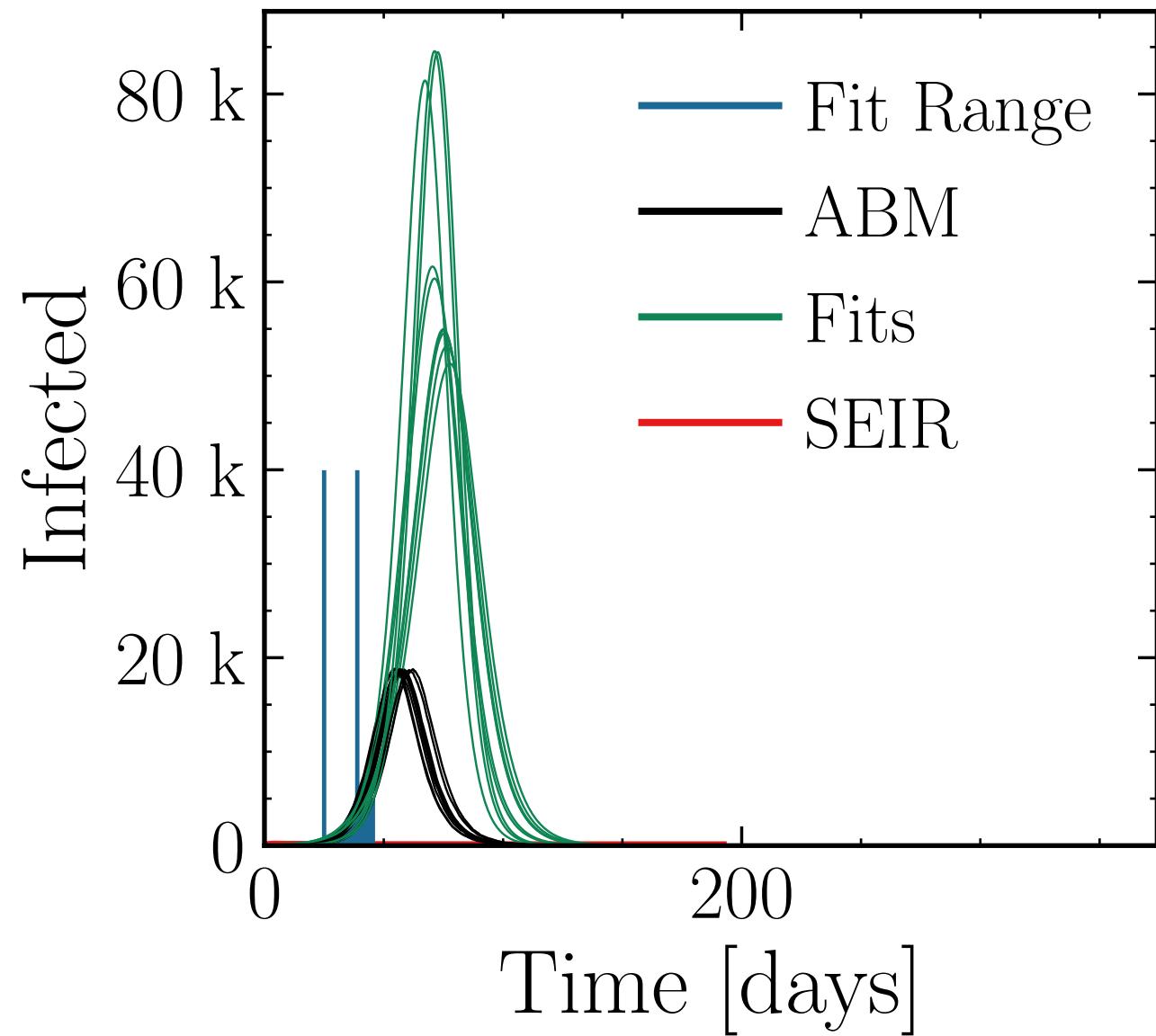
$N_{\text{tot}} = 580K$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 5.8^{+3}_{-0.5} \cdot 10^4$$

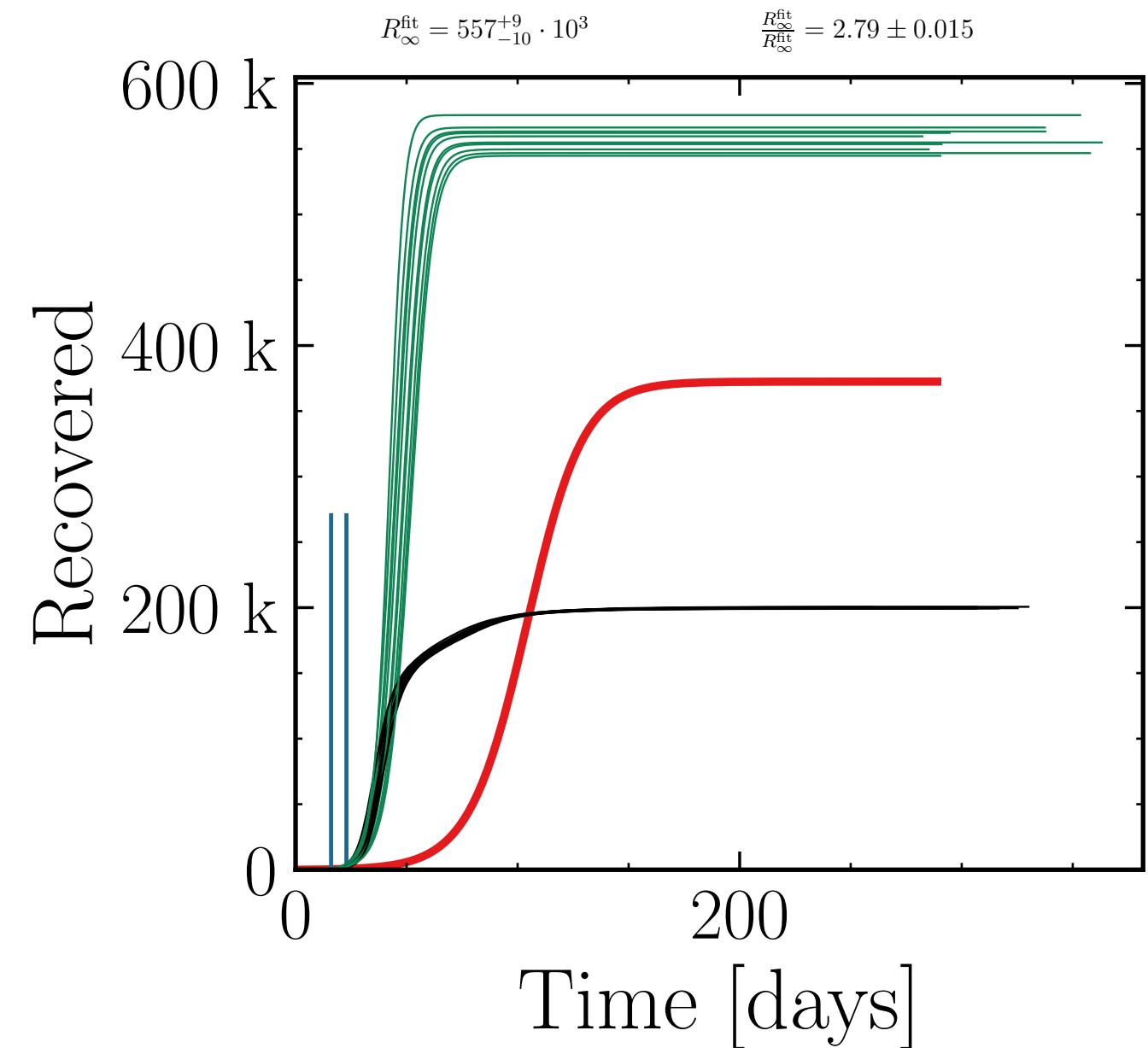
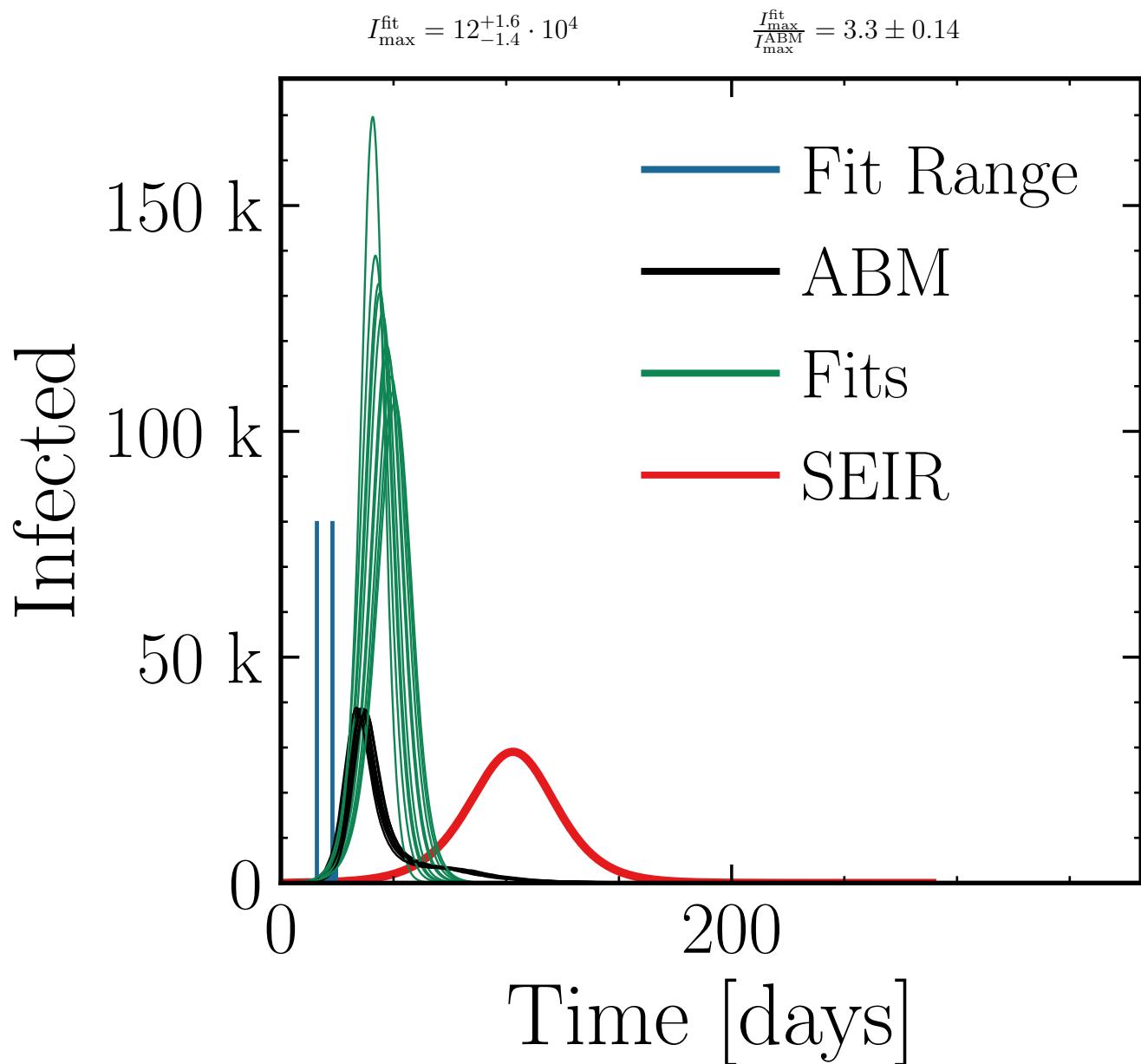
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.4 \pm 0.22$$

$$R_{\infty}^{\text{fit}} = 47^{+5}_{-1.1} \cdot 10^4$$

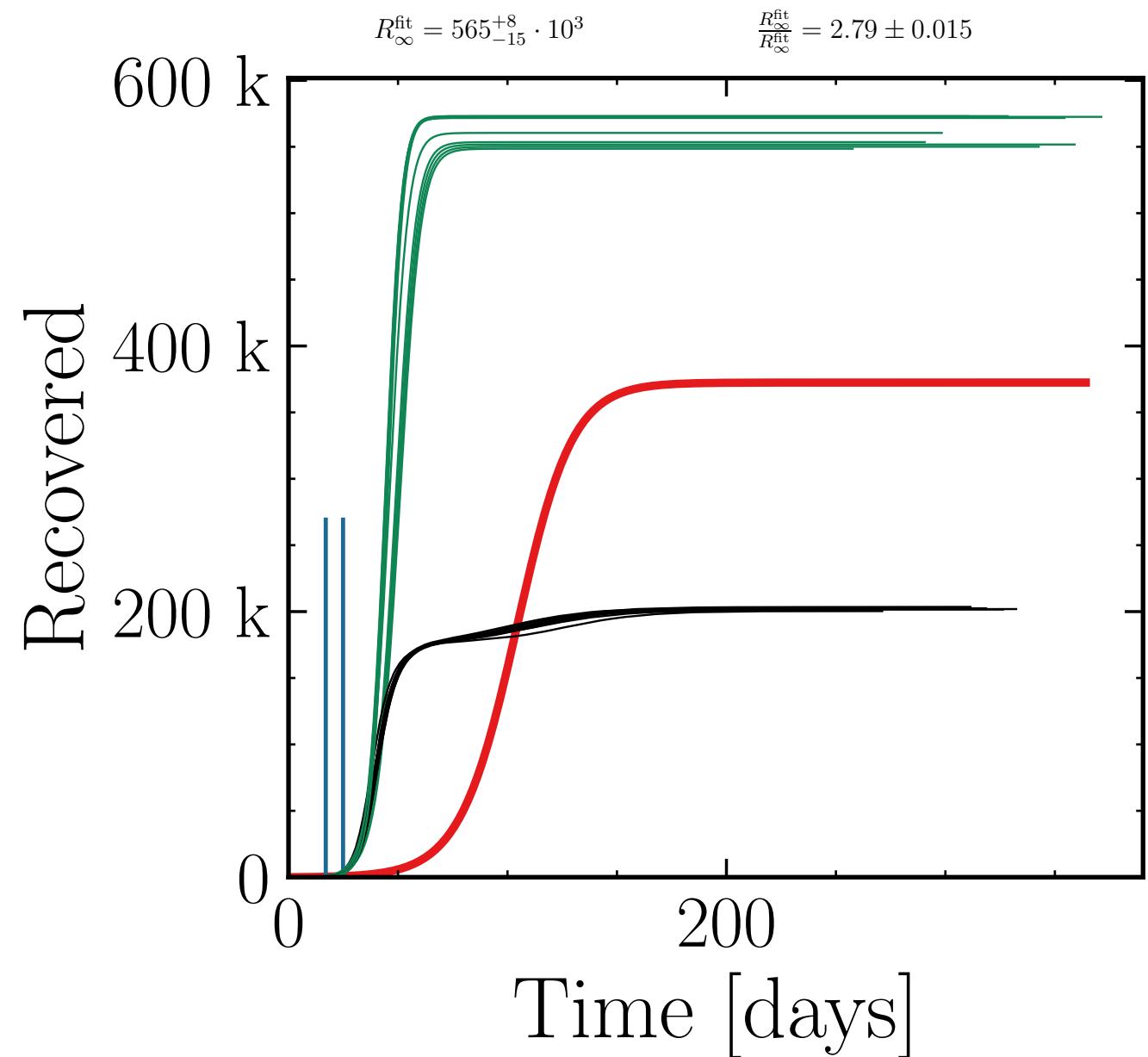
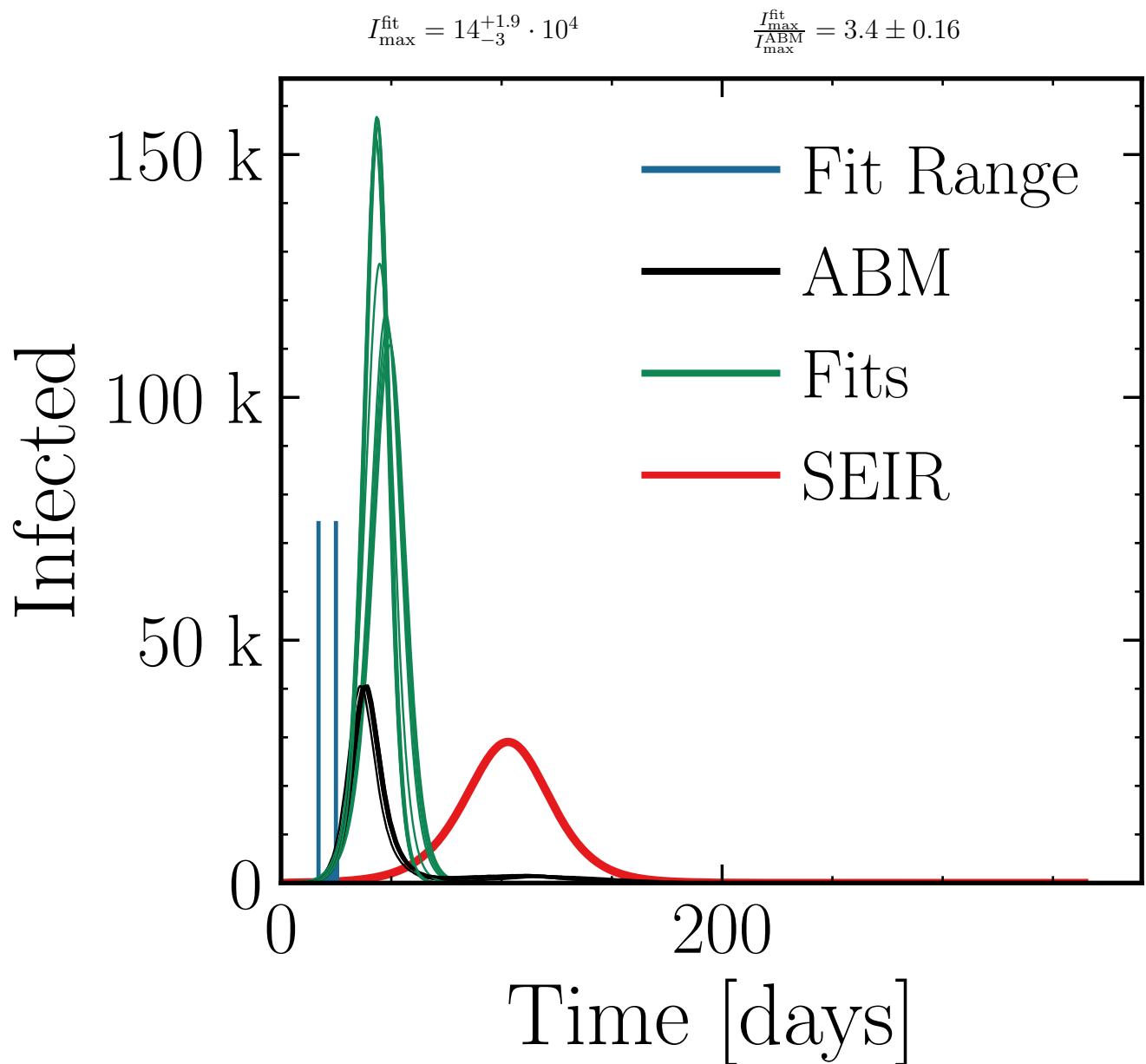
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.94 \pm 0.065$$



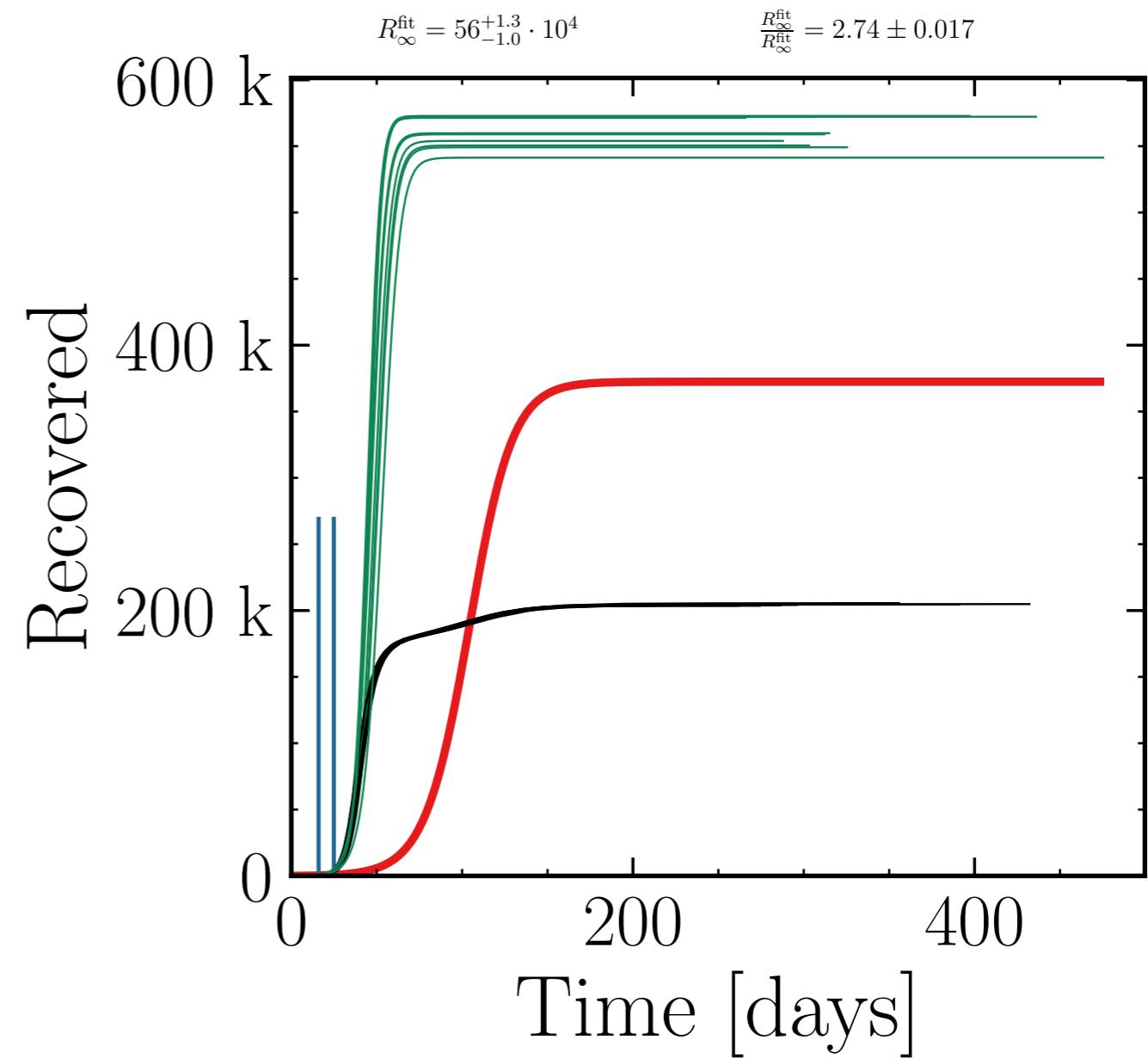
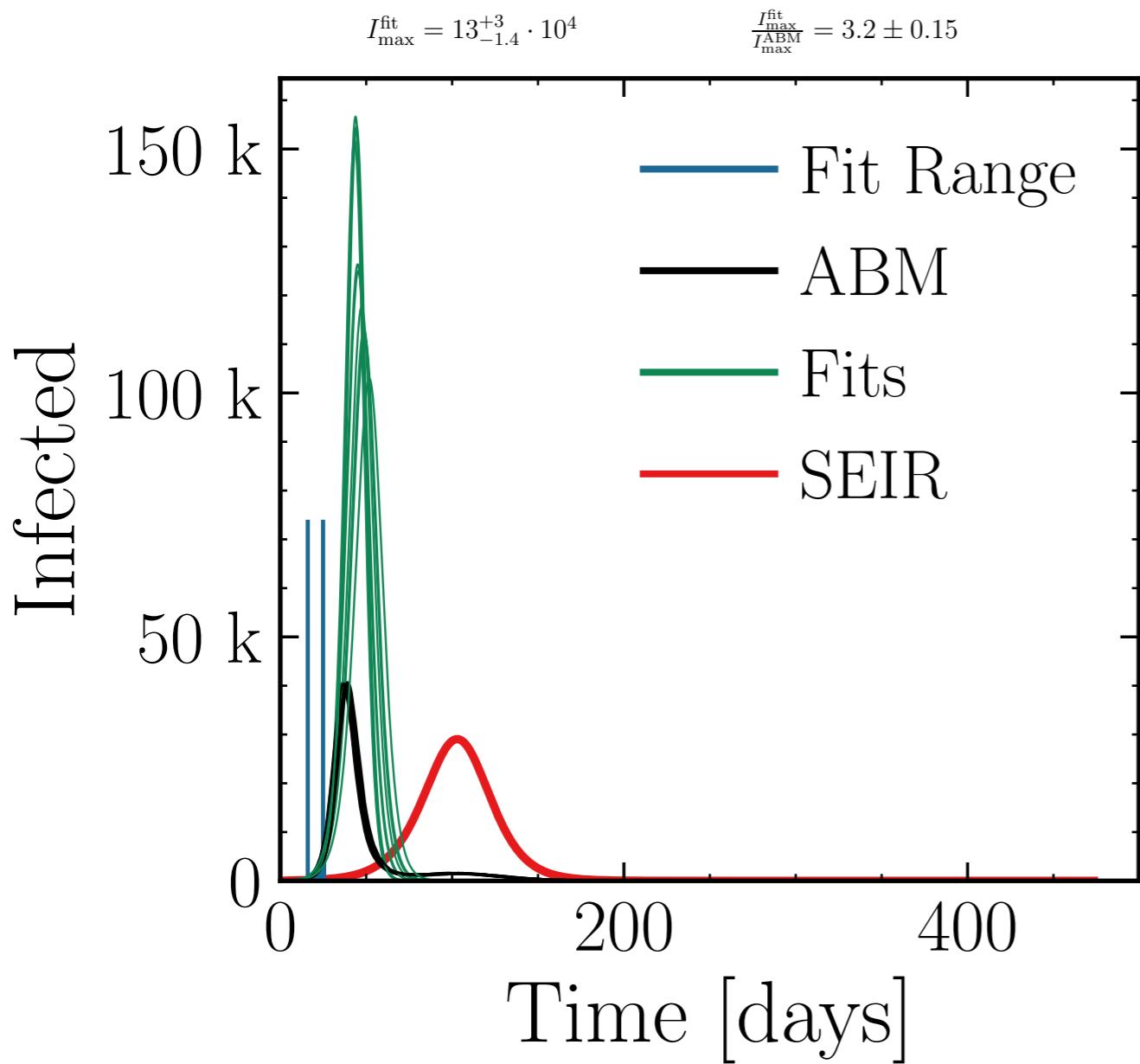
$N_{\text{tot}} = 580K$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



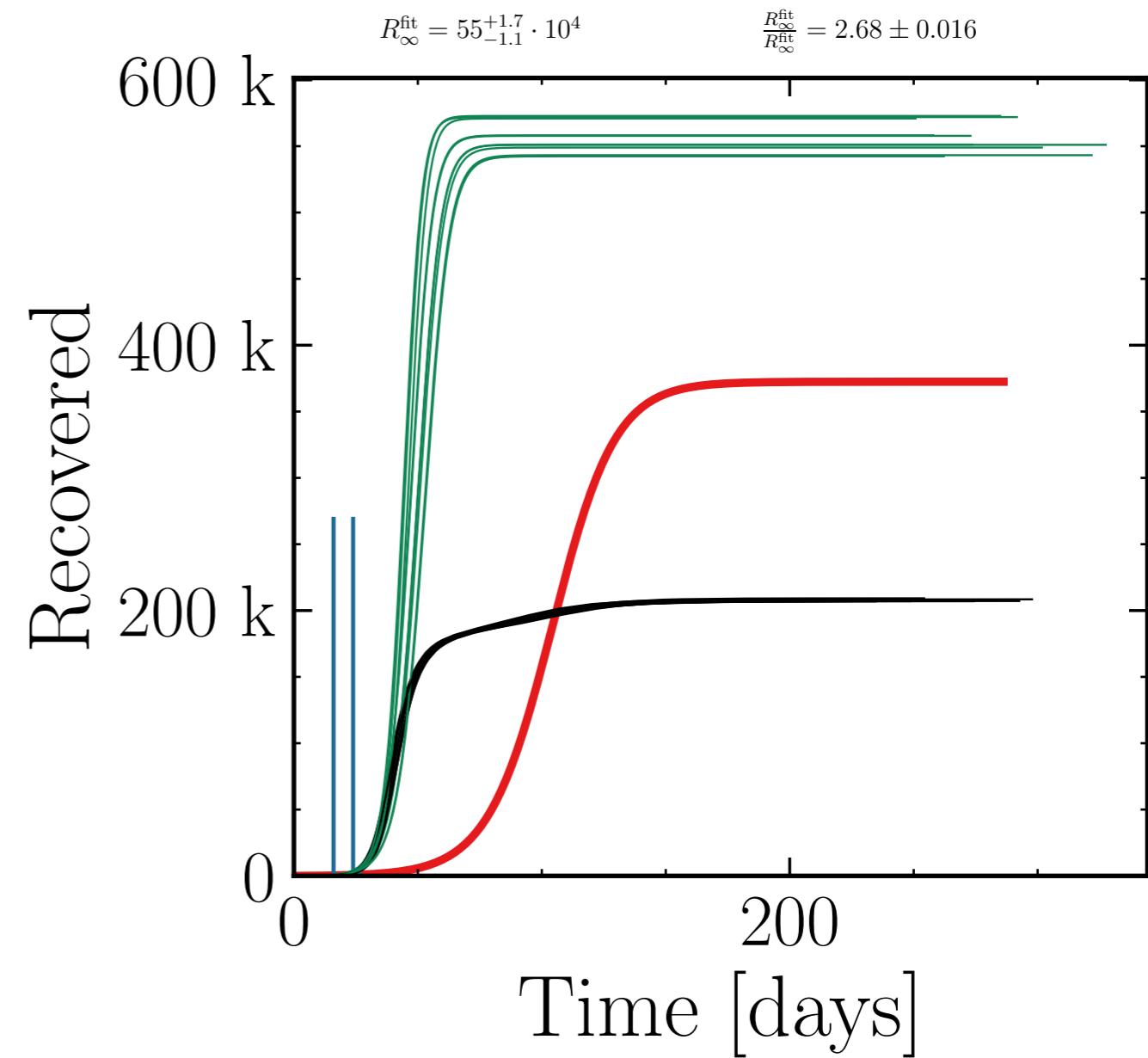
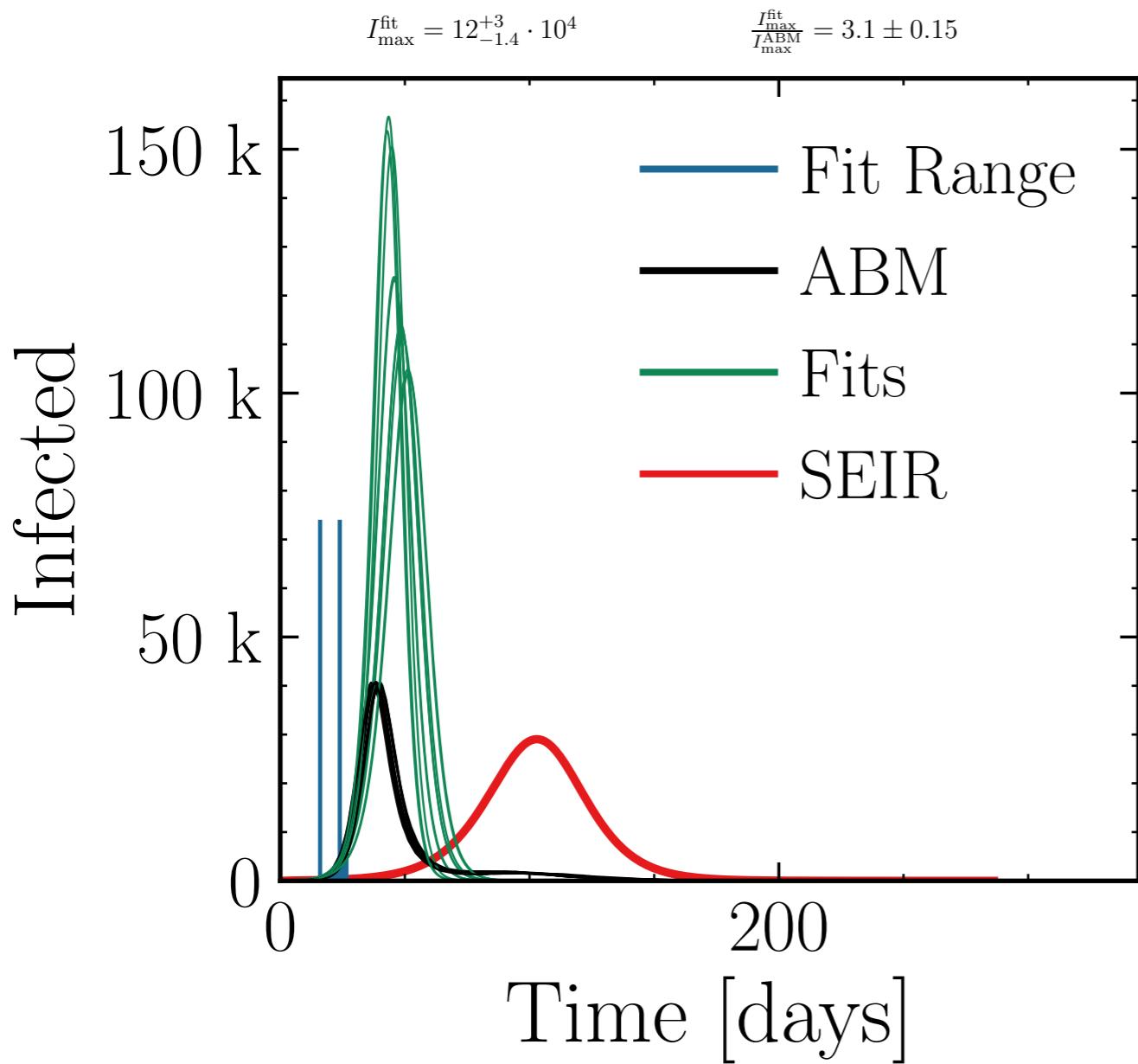
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.005$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.01$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.02$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



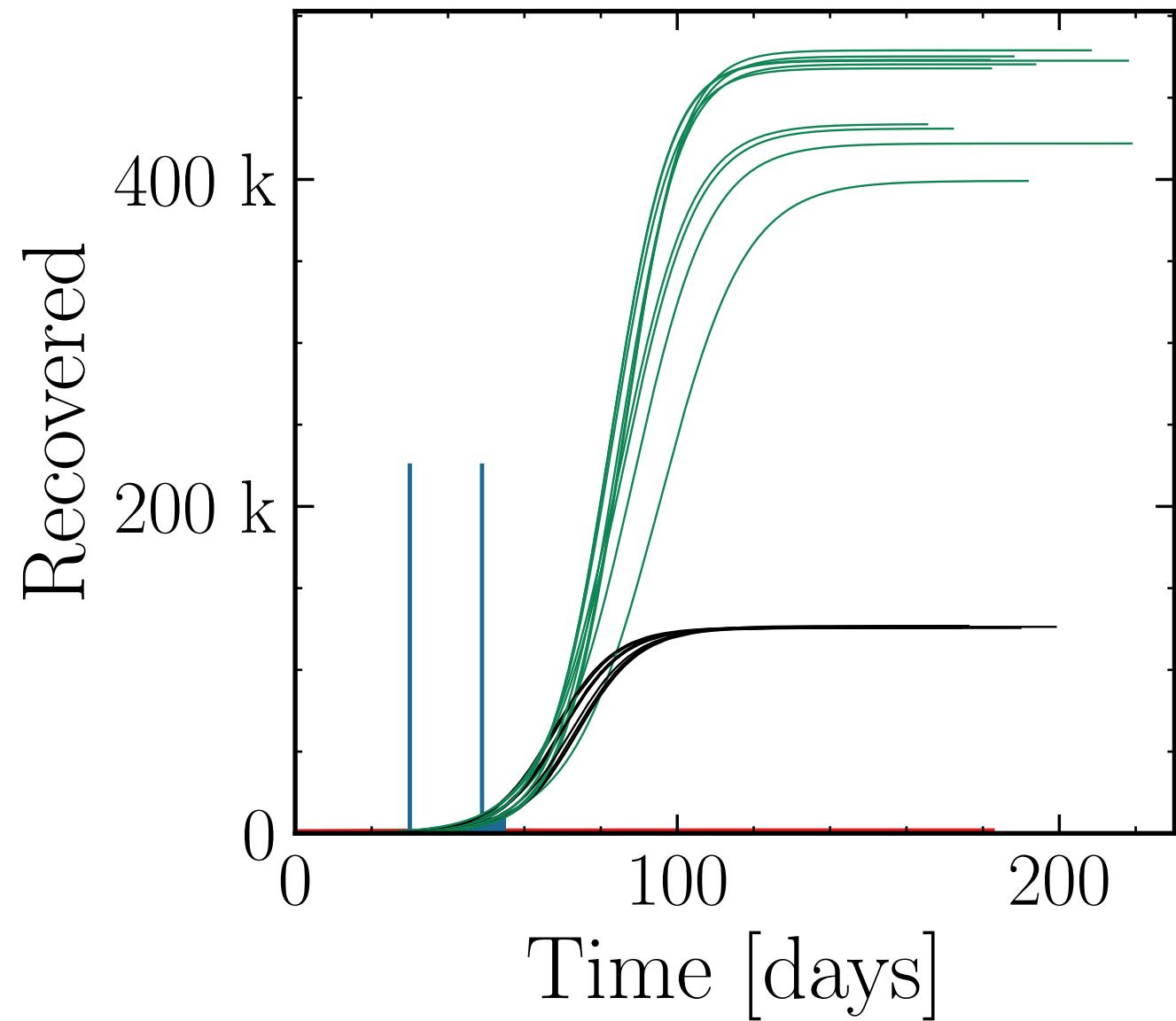
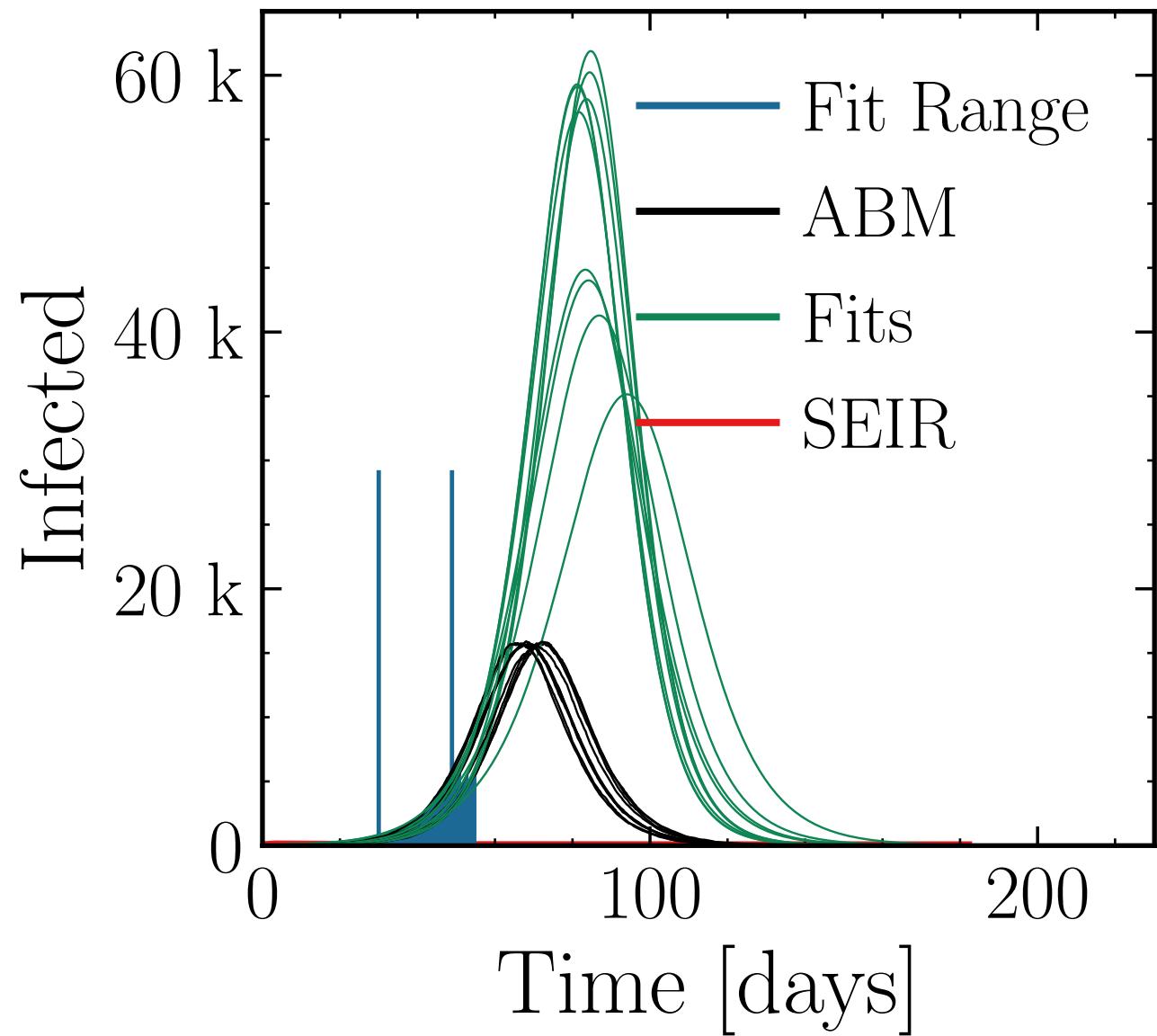
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 58_{-16}^{+3} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.19$$

$$R_{\infty}^{\text{fit}} = 469_{-50}^{+6} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.59 \pm 0.066$$



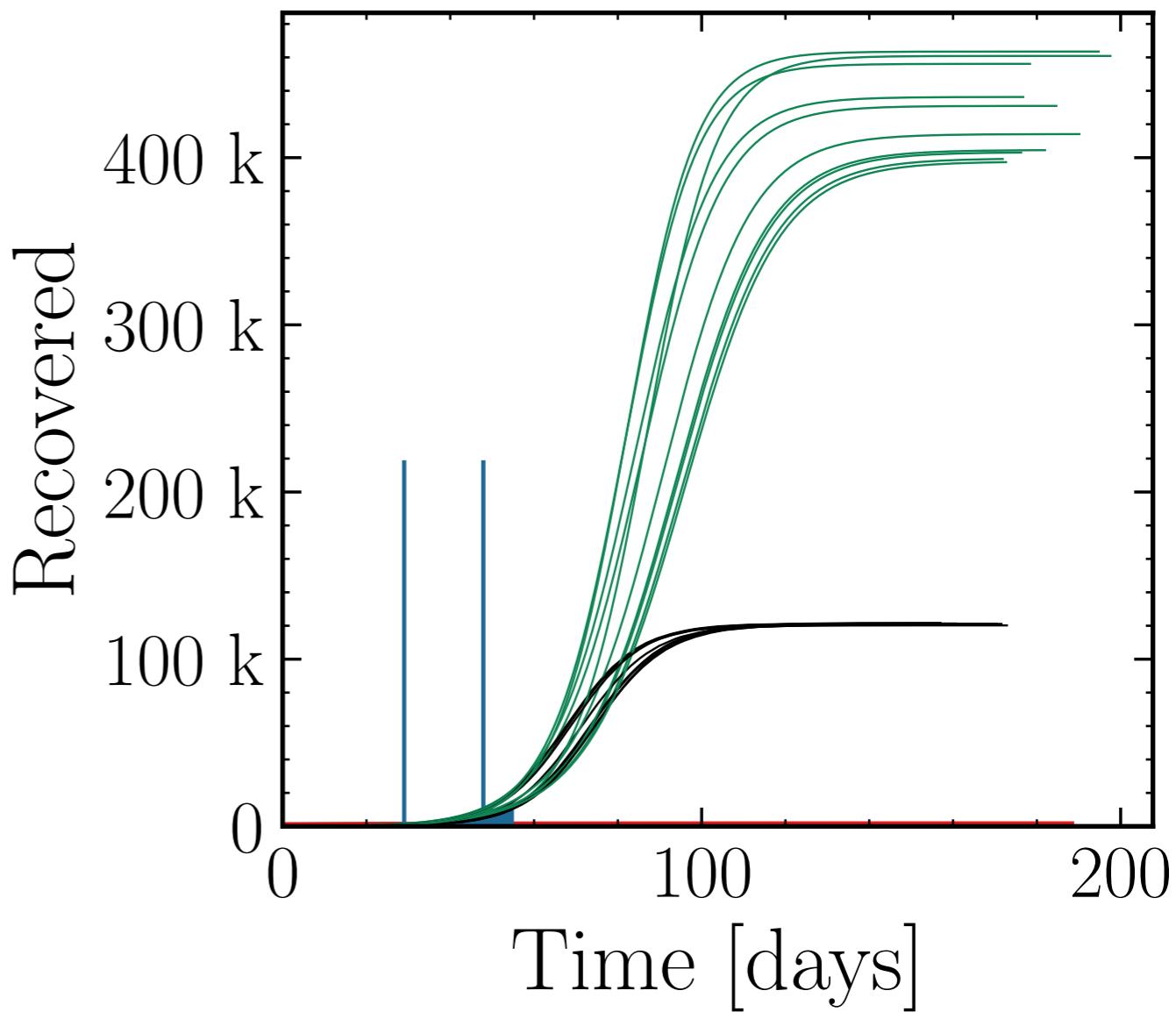
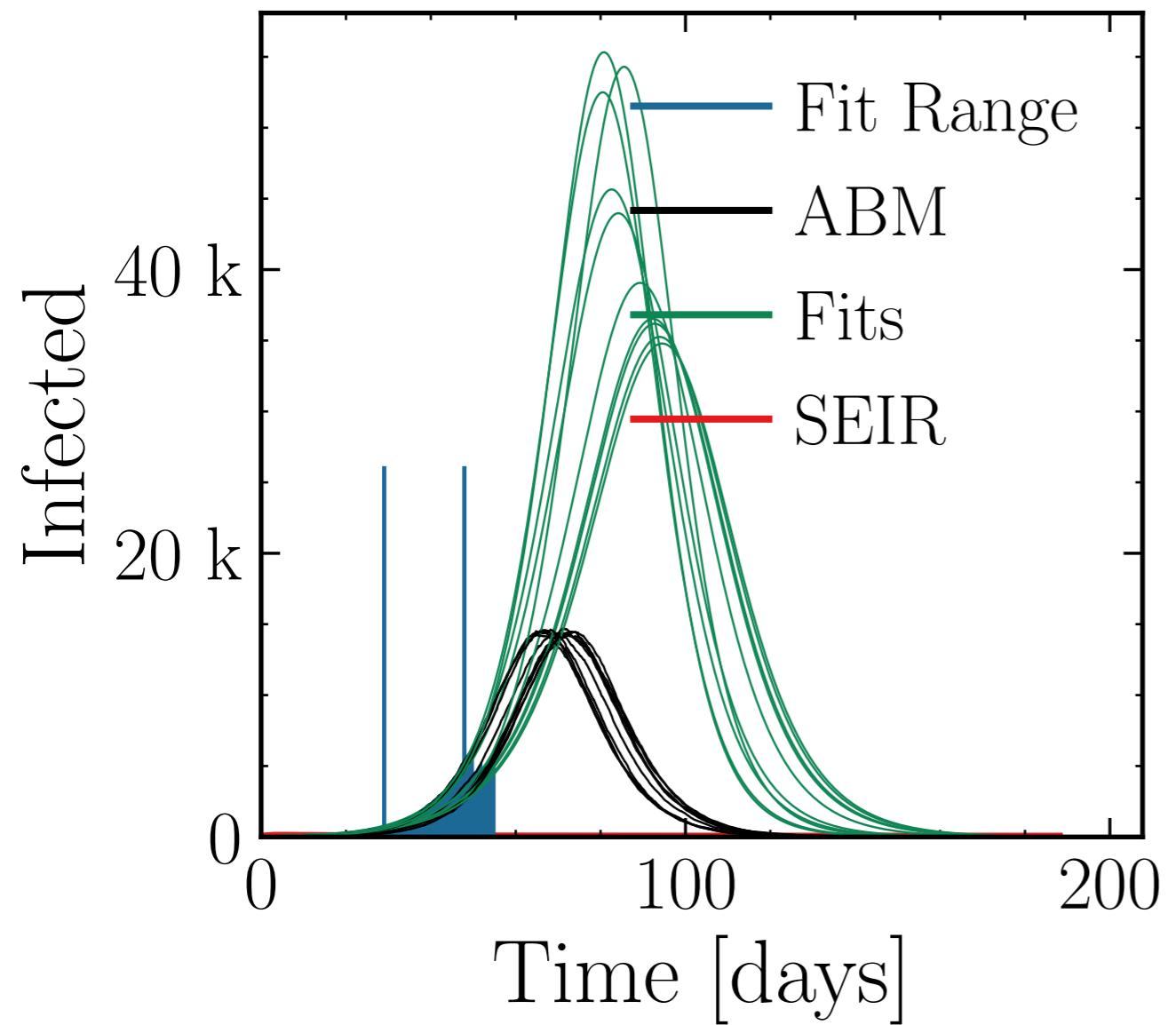
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 4.2^{+1.3}_{-0.6} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3 \pm 0.17$$

$$R_{\infty}^{\text{fit}} = 42^{+4}_{-2} \cdot 10^4$$

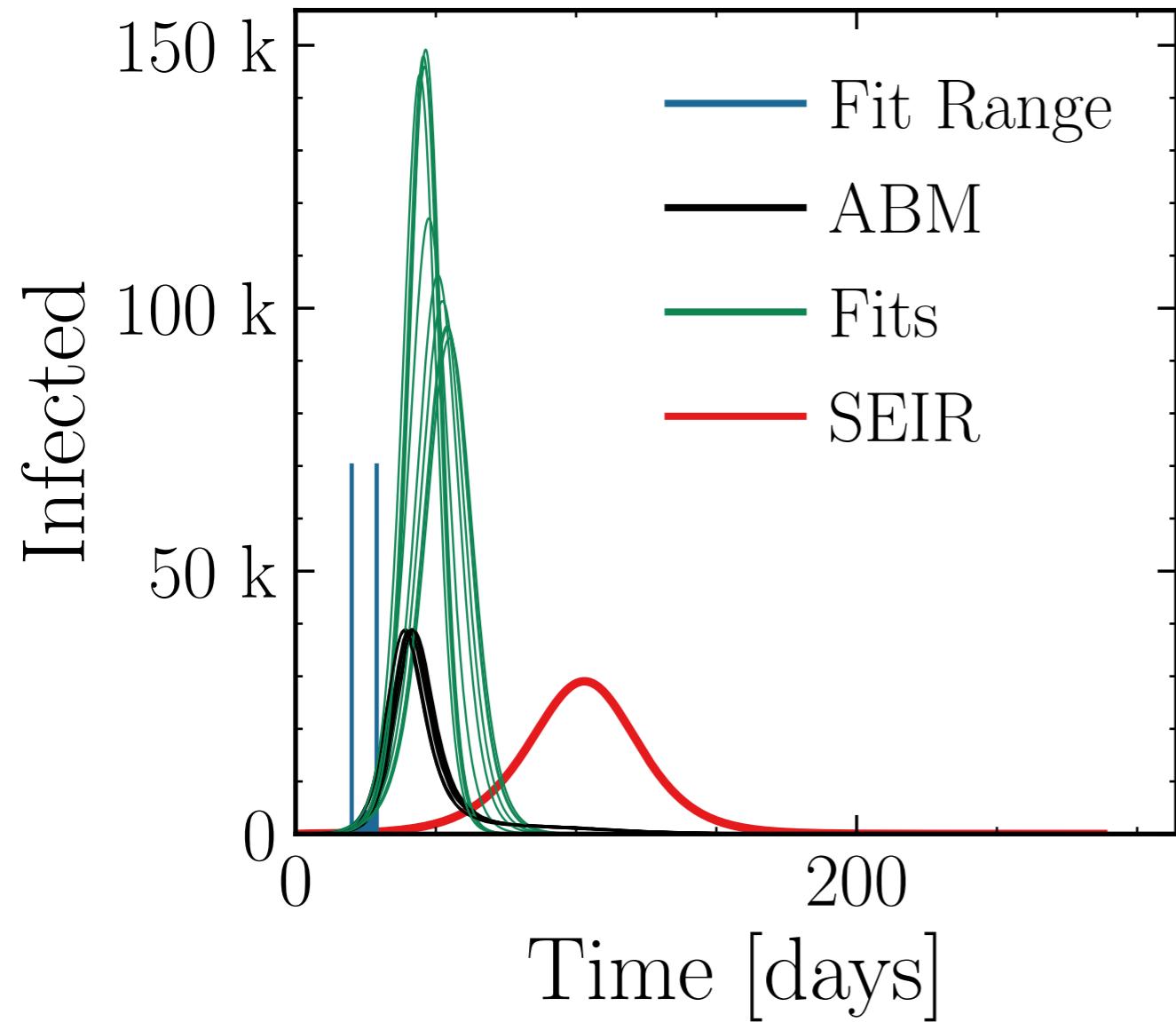
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.53 \pm 0.065$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

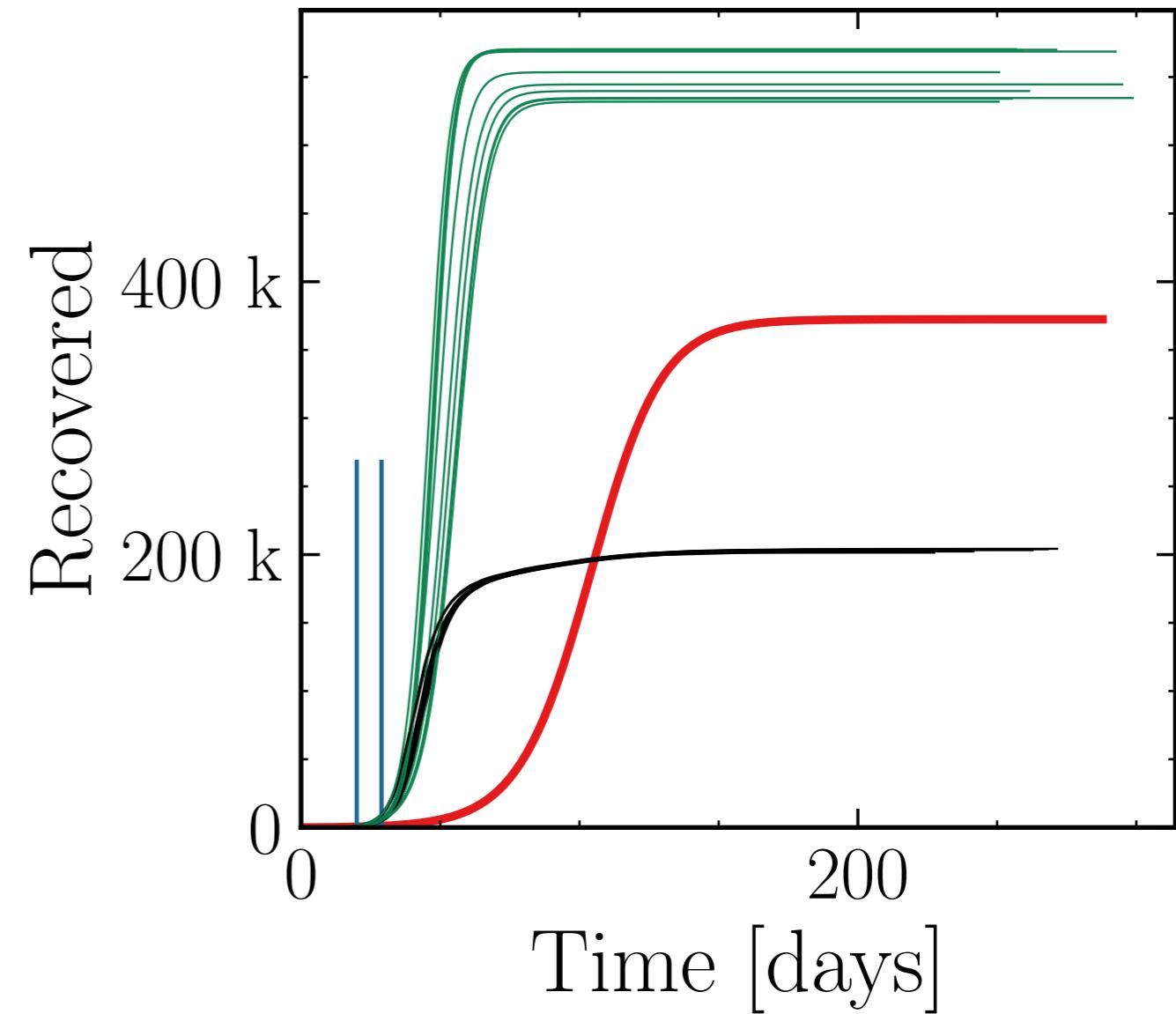
$$I_{\max}^{\text{fit}} = 11^{+3}_{-1.7} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 3.1 \pm 0.19$$



$$R_{\infty}^{\text{fit}} = 55^{+2.0}_{-1.6} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.72 \pm 0.027$$



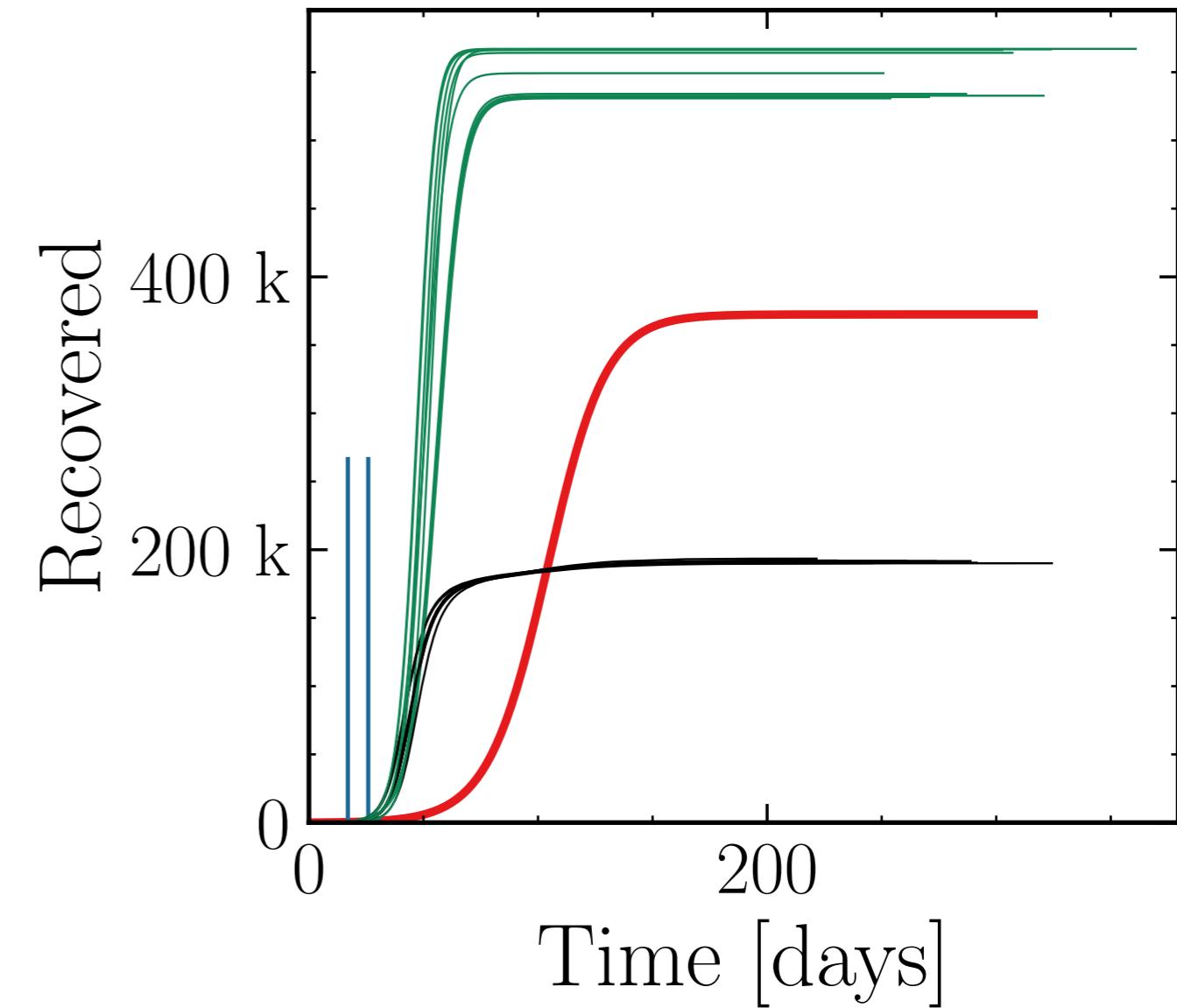
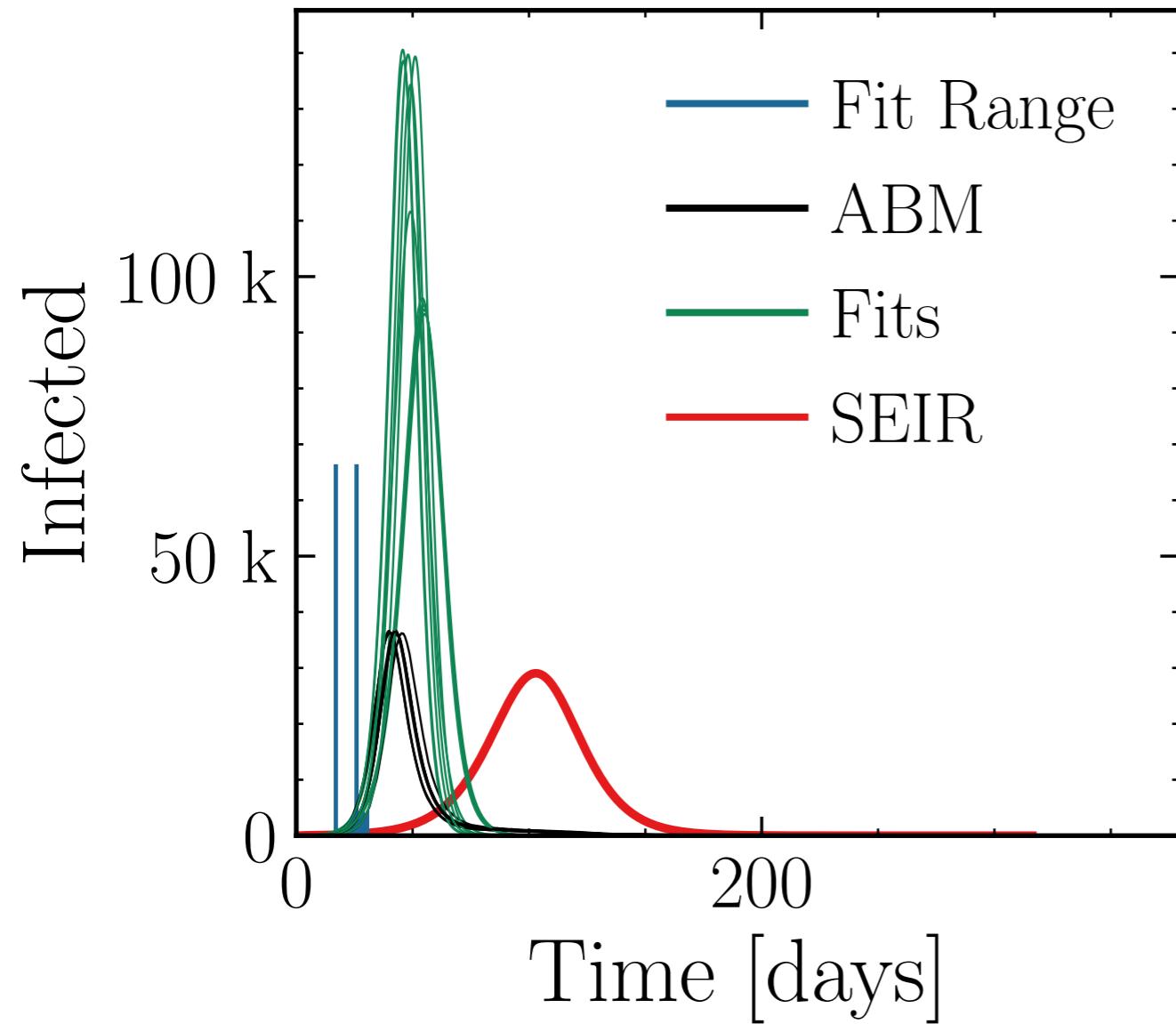
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 12^{+1.8}_{-3} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 3.3 \pm 0.18$$

$$R_{\infty}^{\text{fit}} = 56^{+1.1}_{-2} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.88 \pm 0.026$$



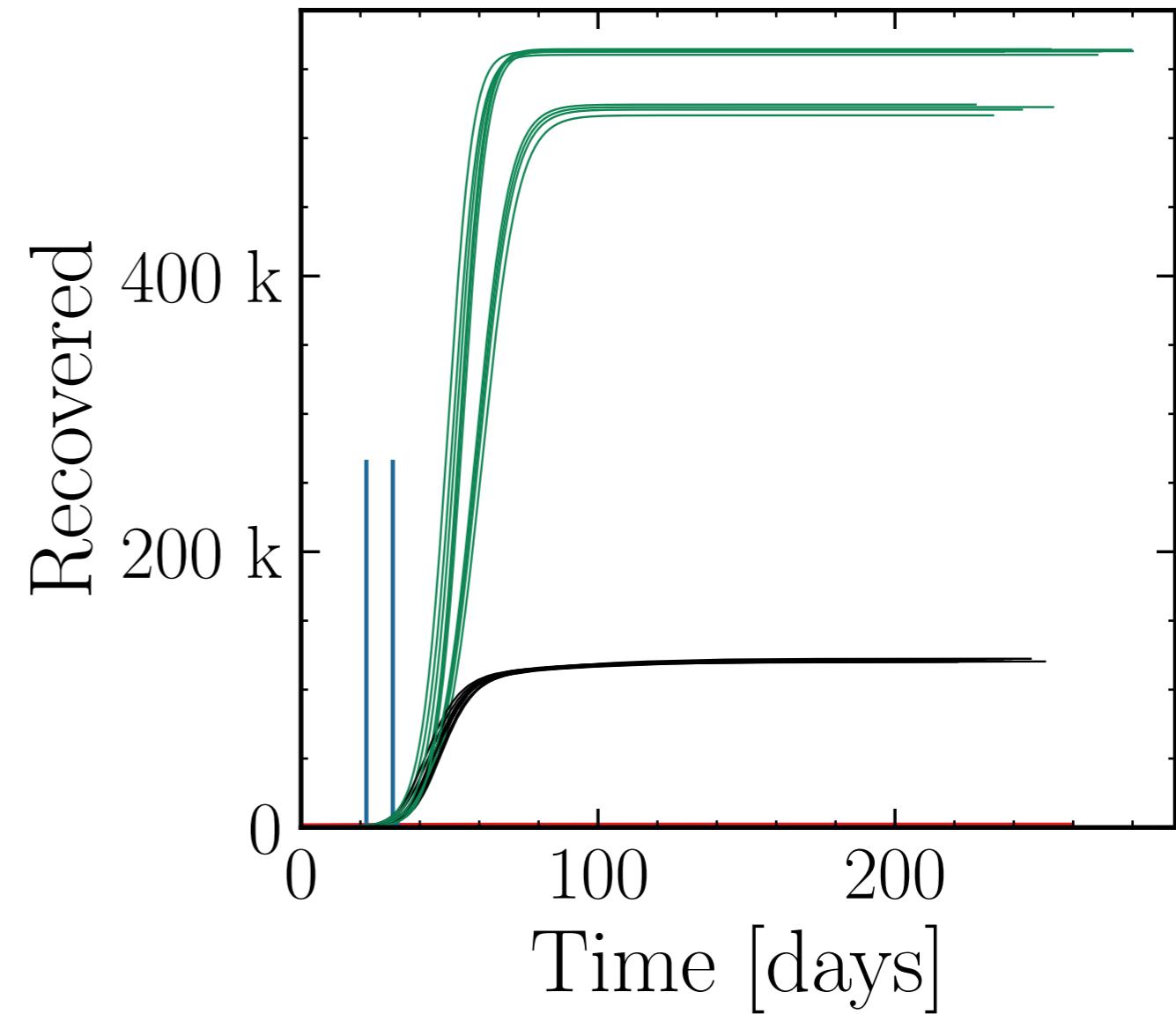
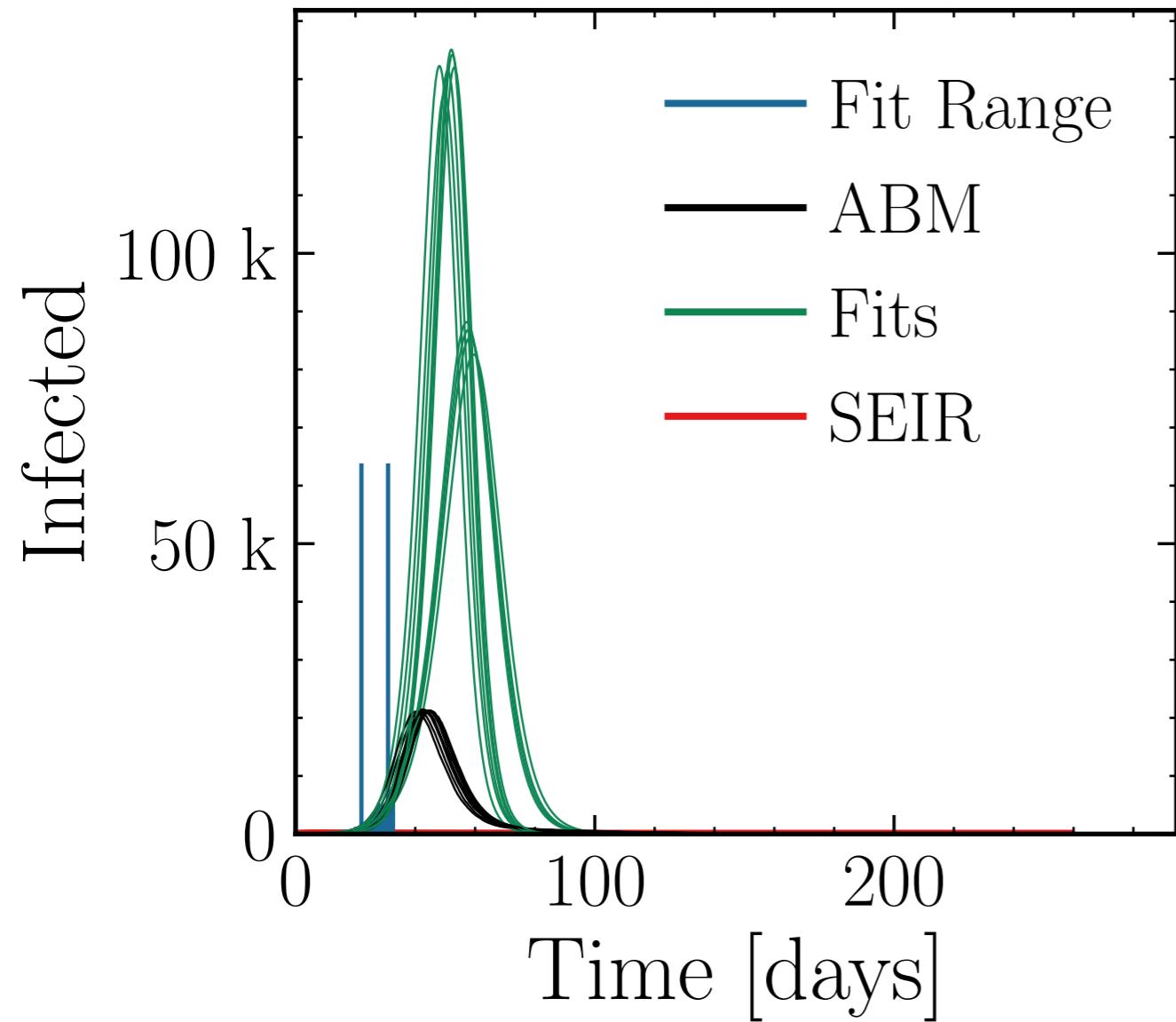
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 129_{-40}^{+5} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 5.3 \pm 0.34$$

$$R_{\infty}^{\text{fit}} = 561_{-40}^{+3} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 4.52 \pm 0.054$$



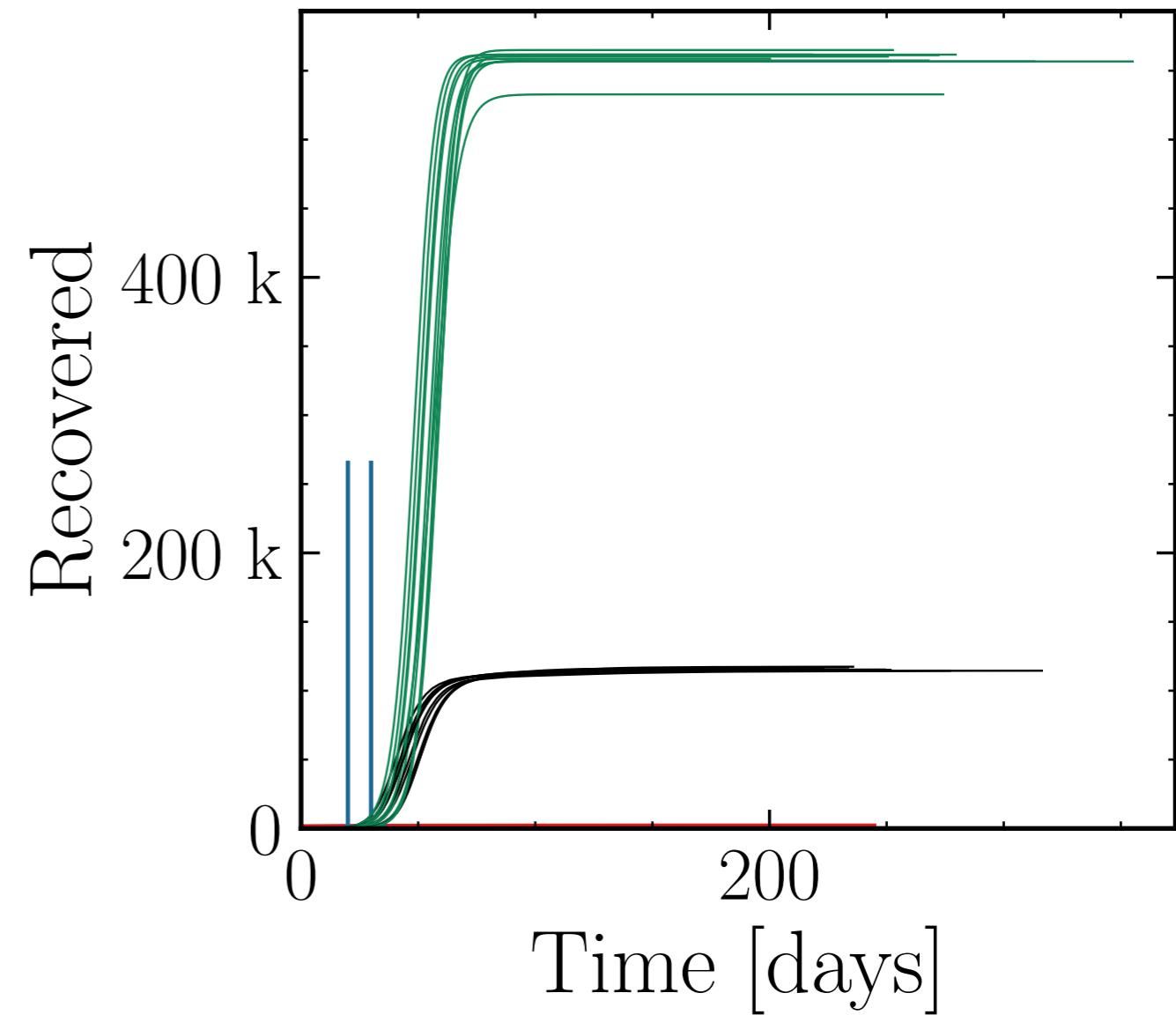
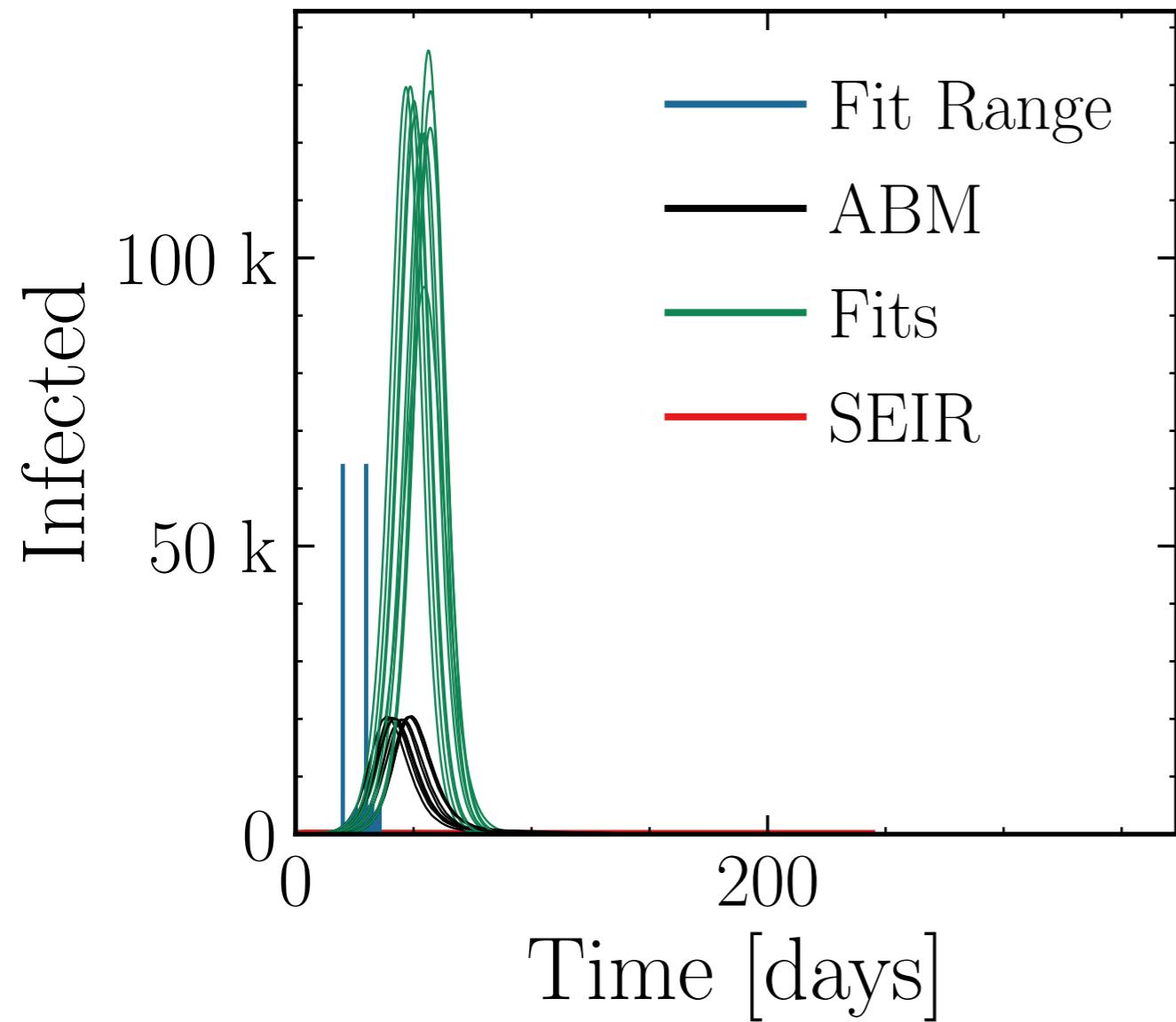
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 126^{+5}_{-5} \cdot 10^3$$

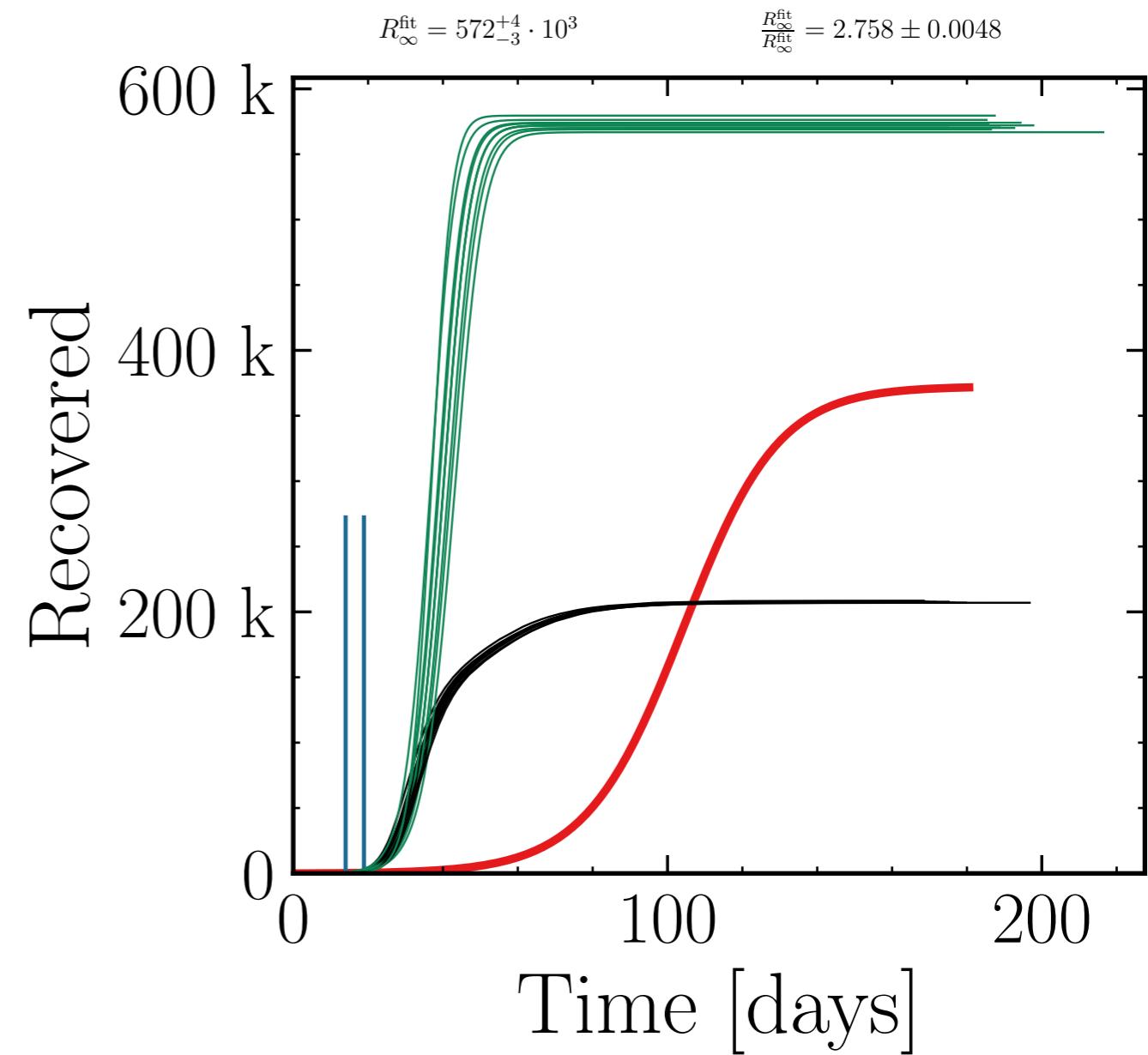
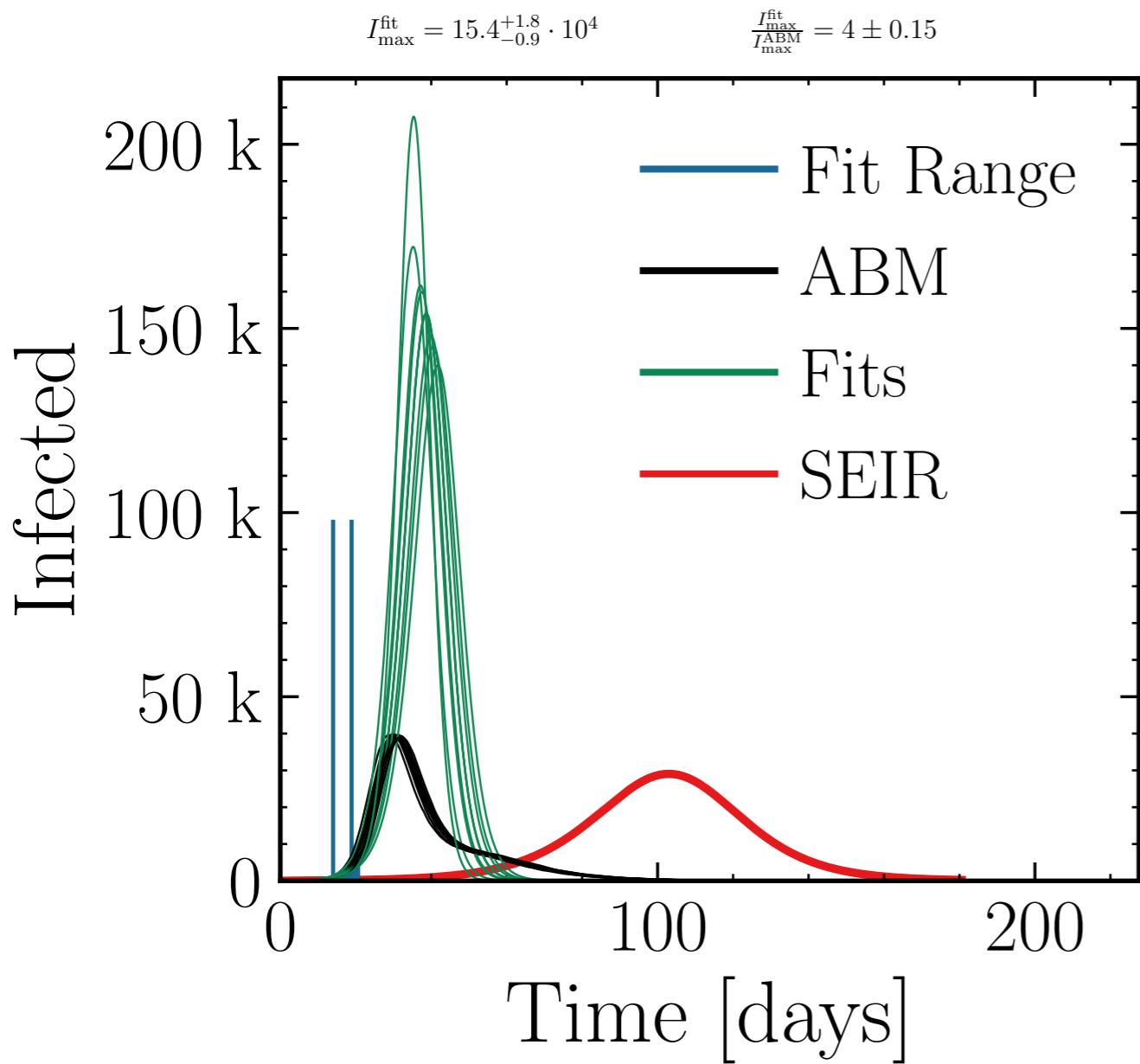
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 6.1 \pm 0.16$$

$$R_{\infty}^{\text{fit}} = 559^{+3}_{-3} \cdot 10^3$$

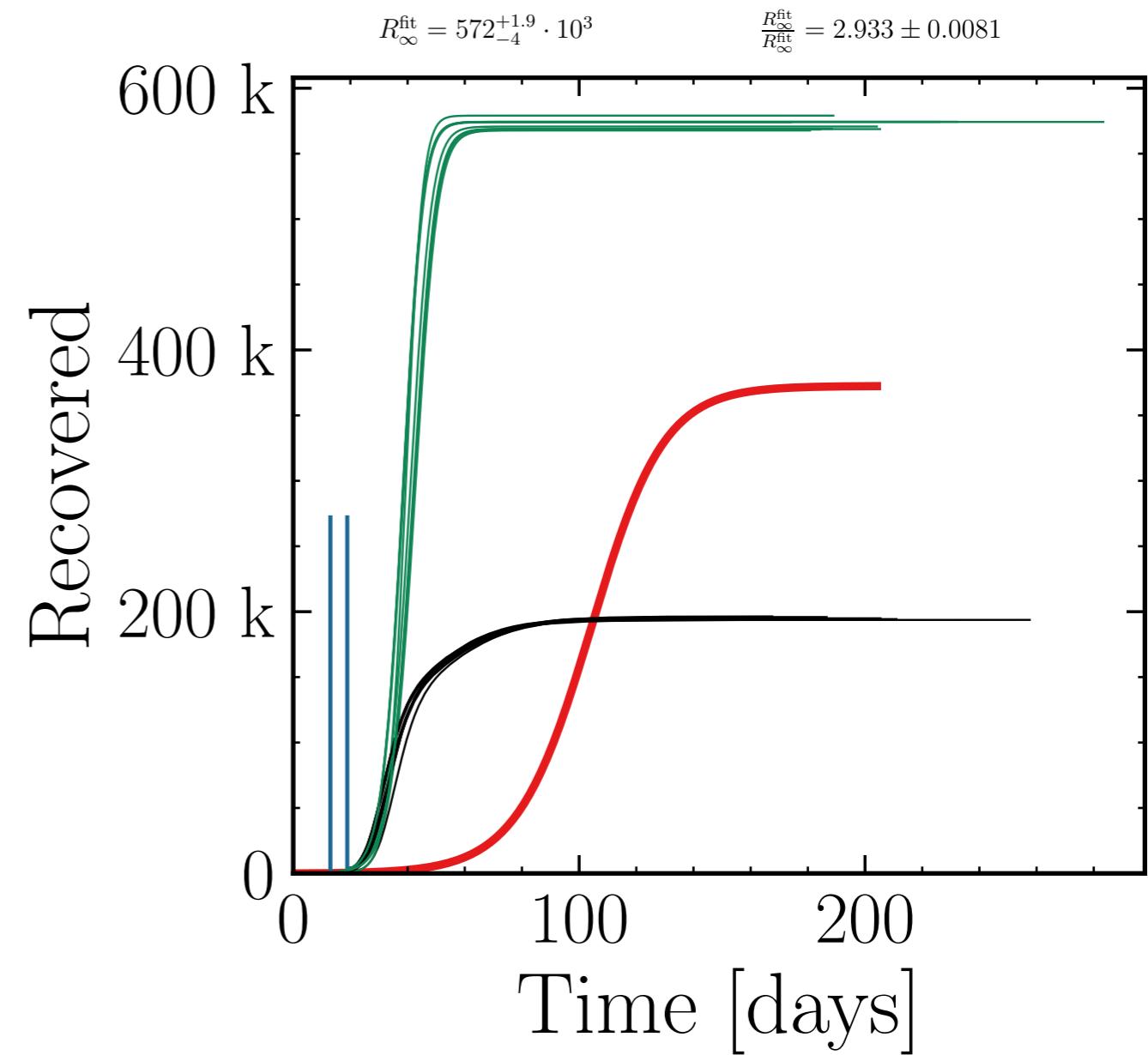
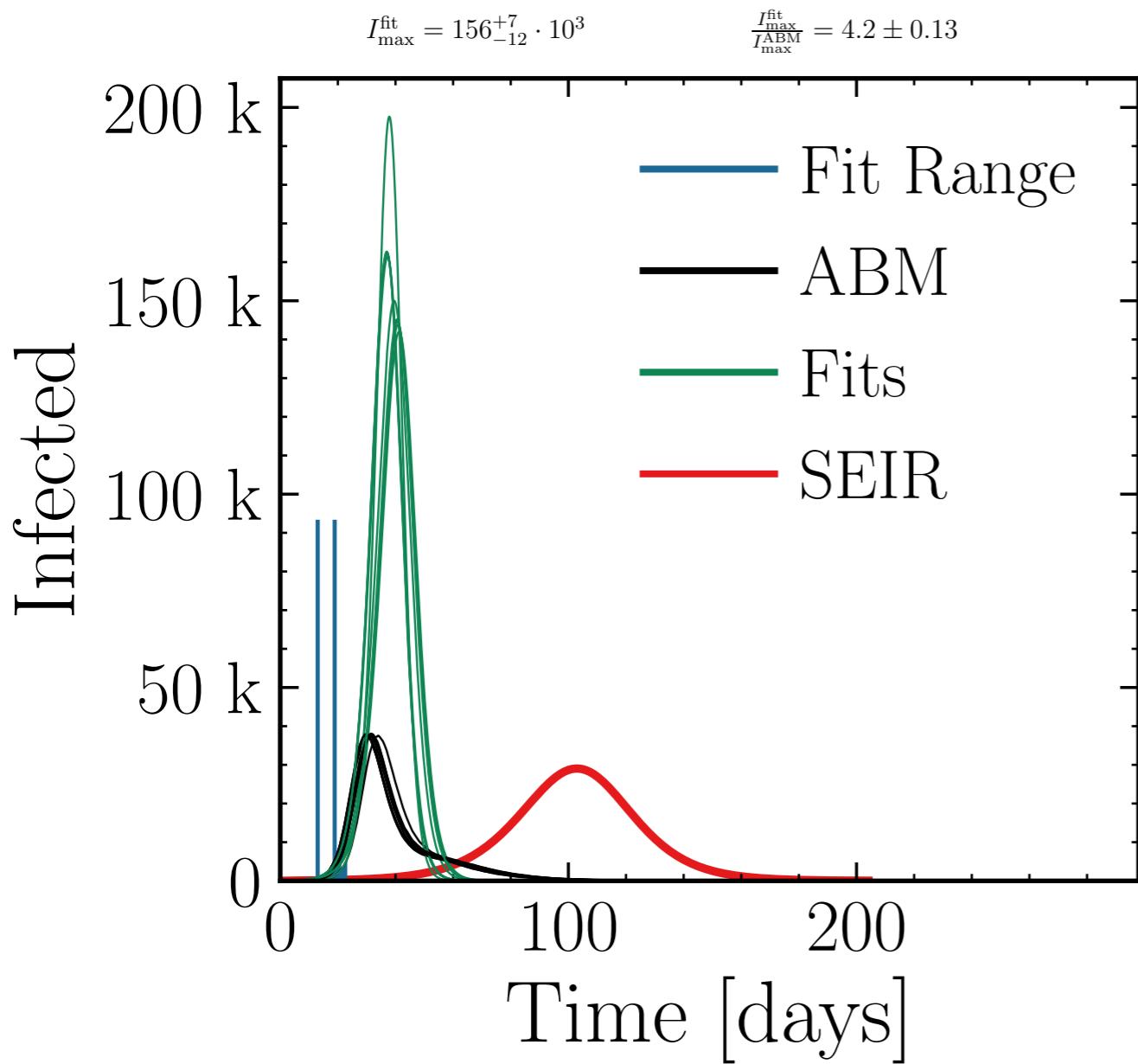
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 4.81 \pm 0.023$$



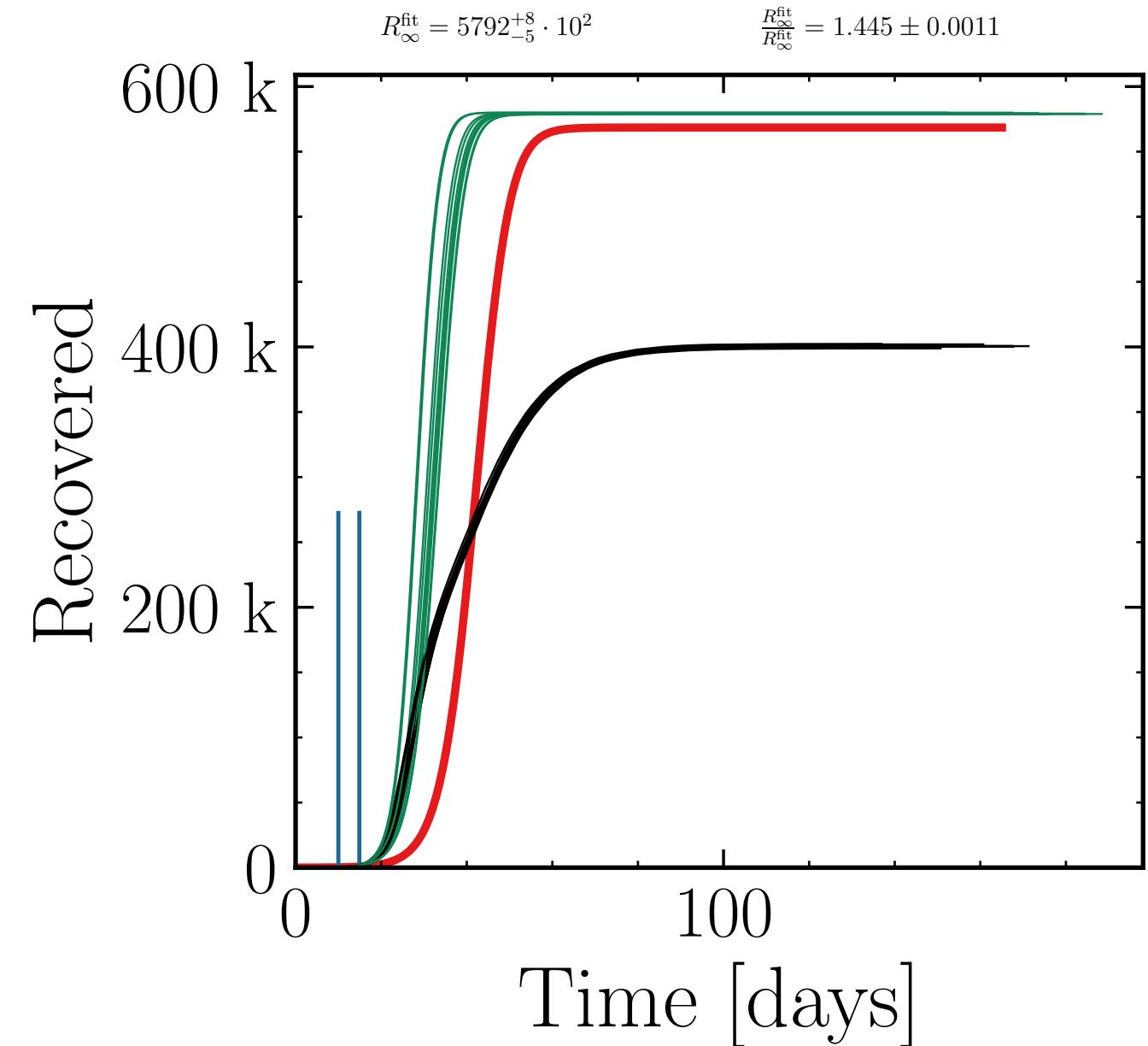
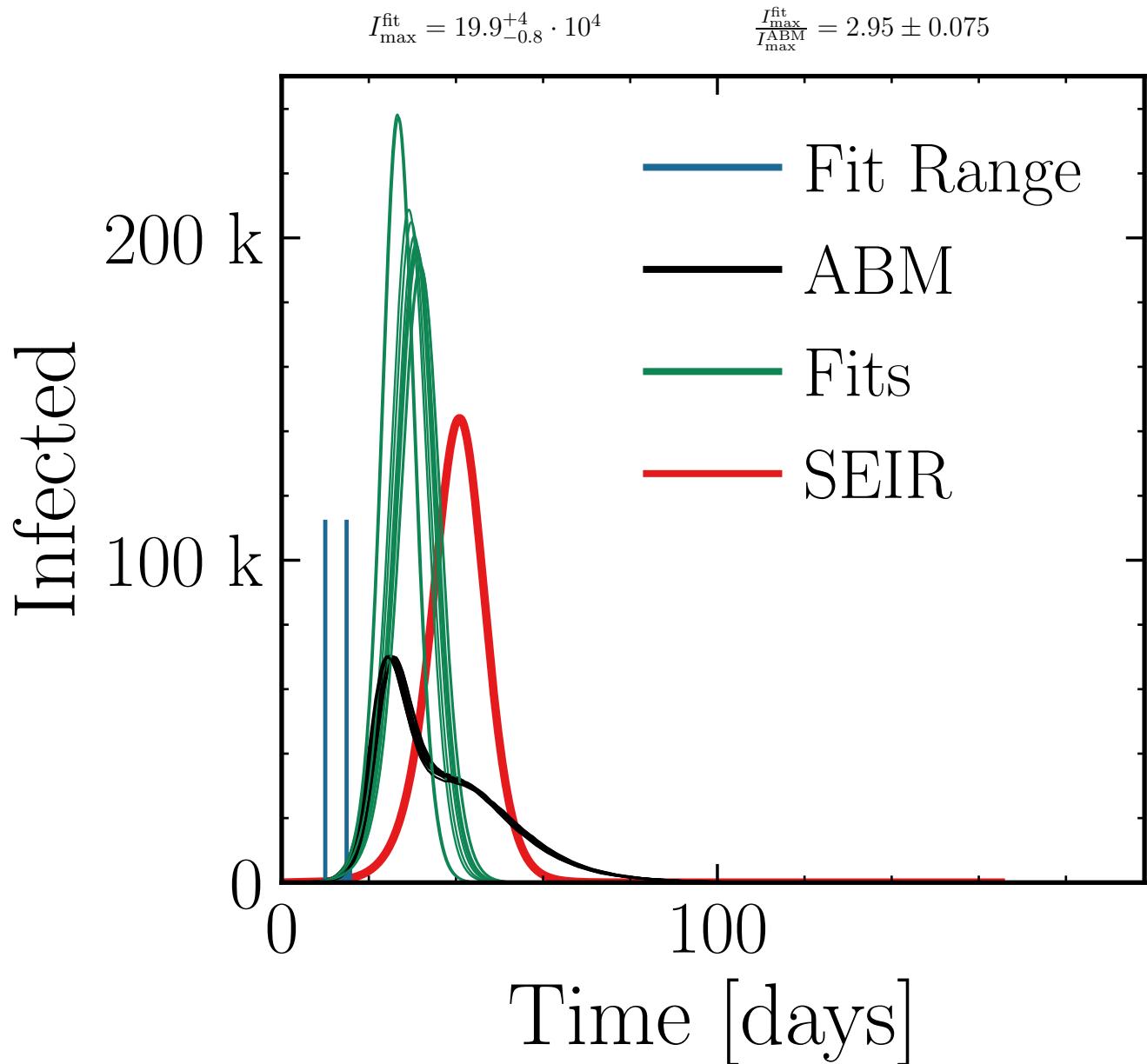
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



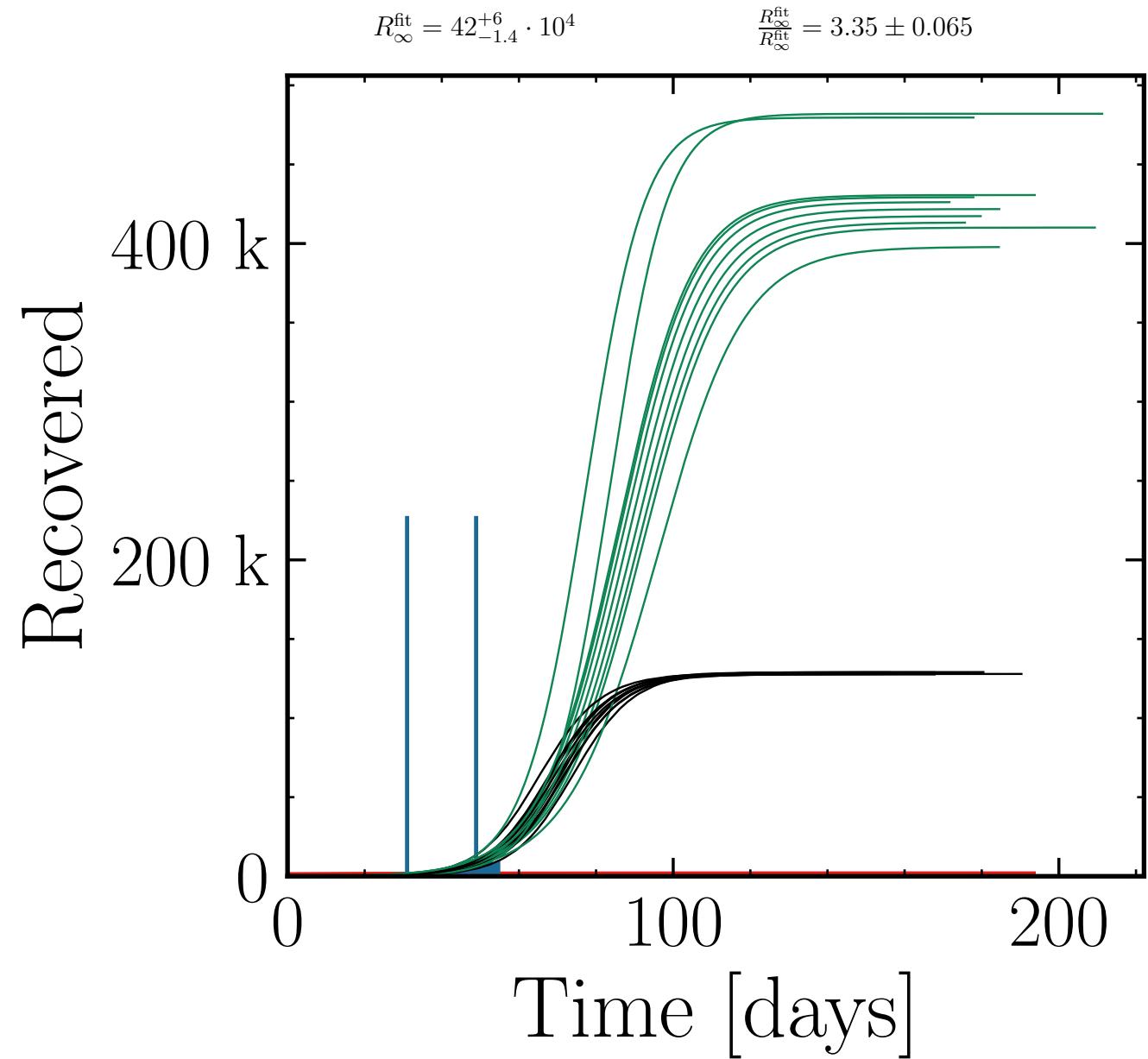
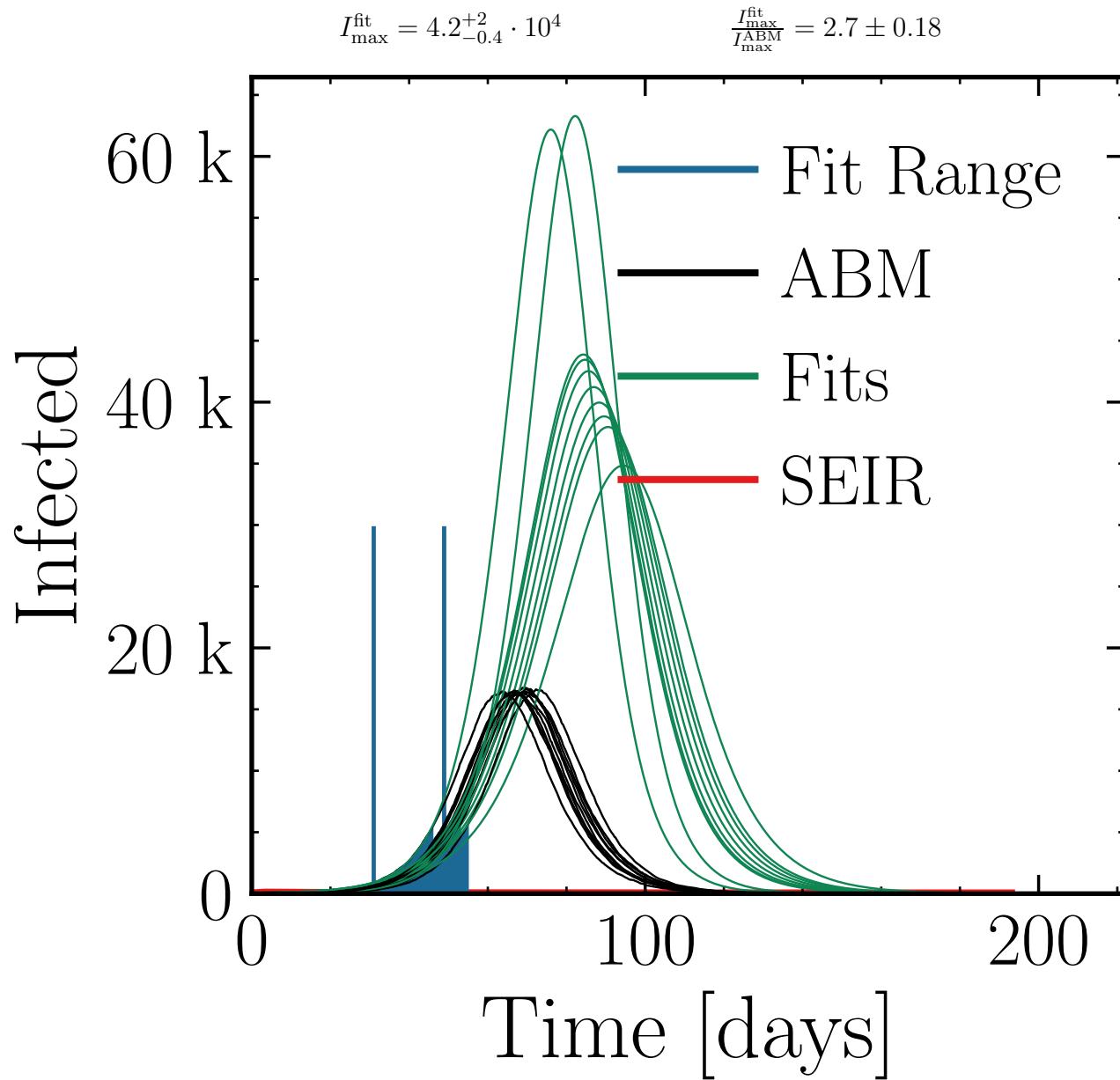
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



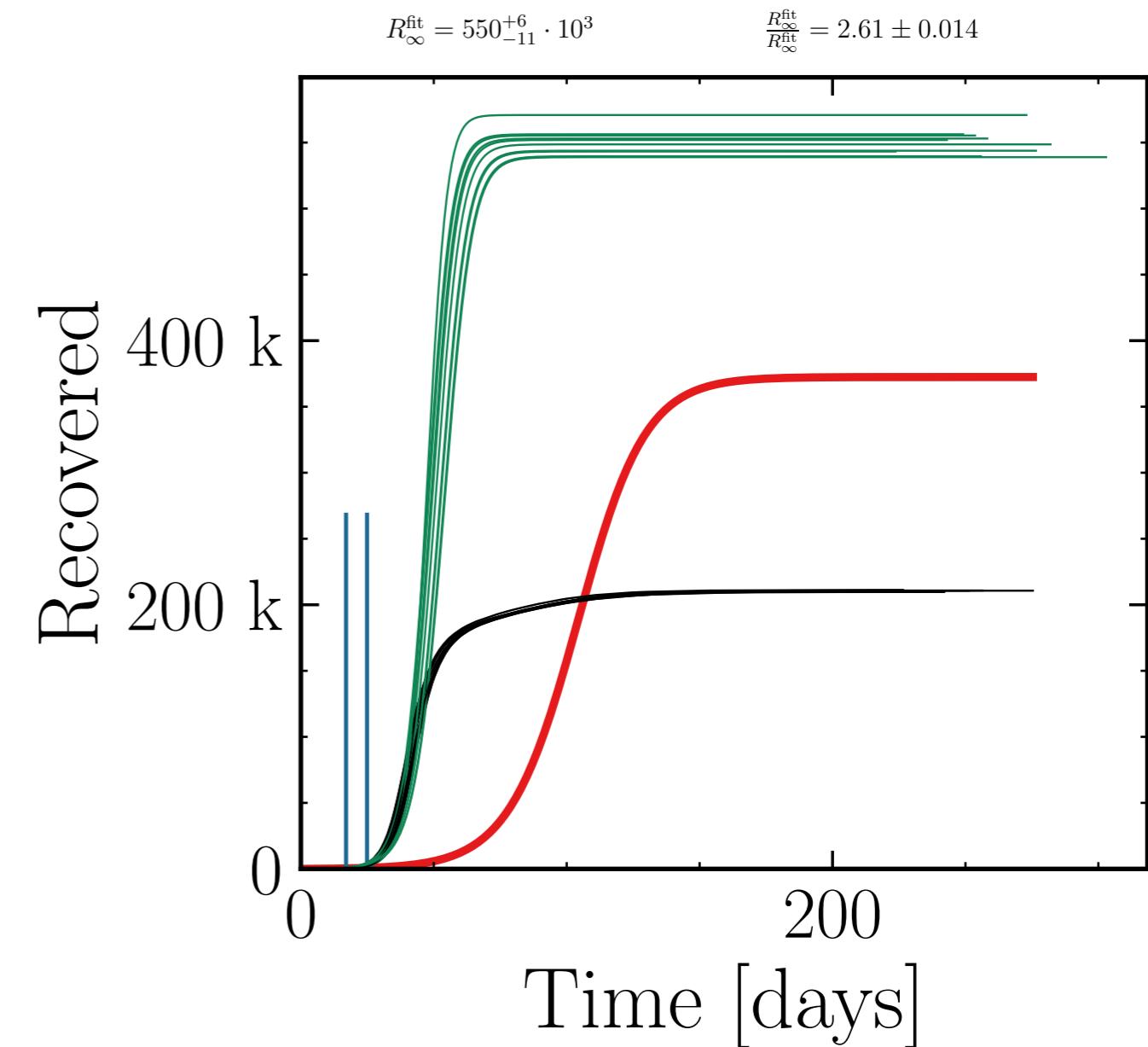
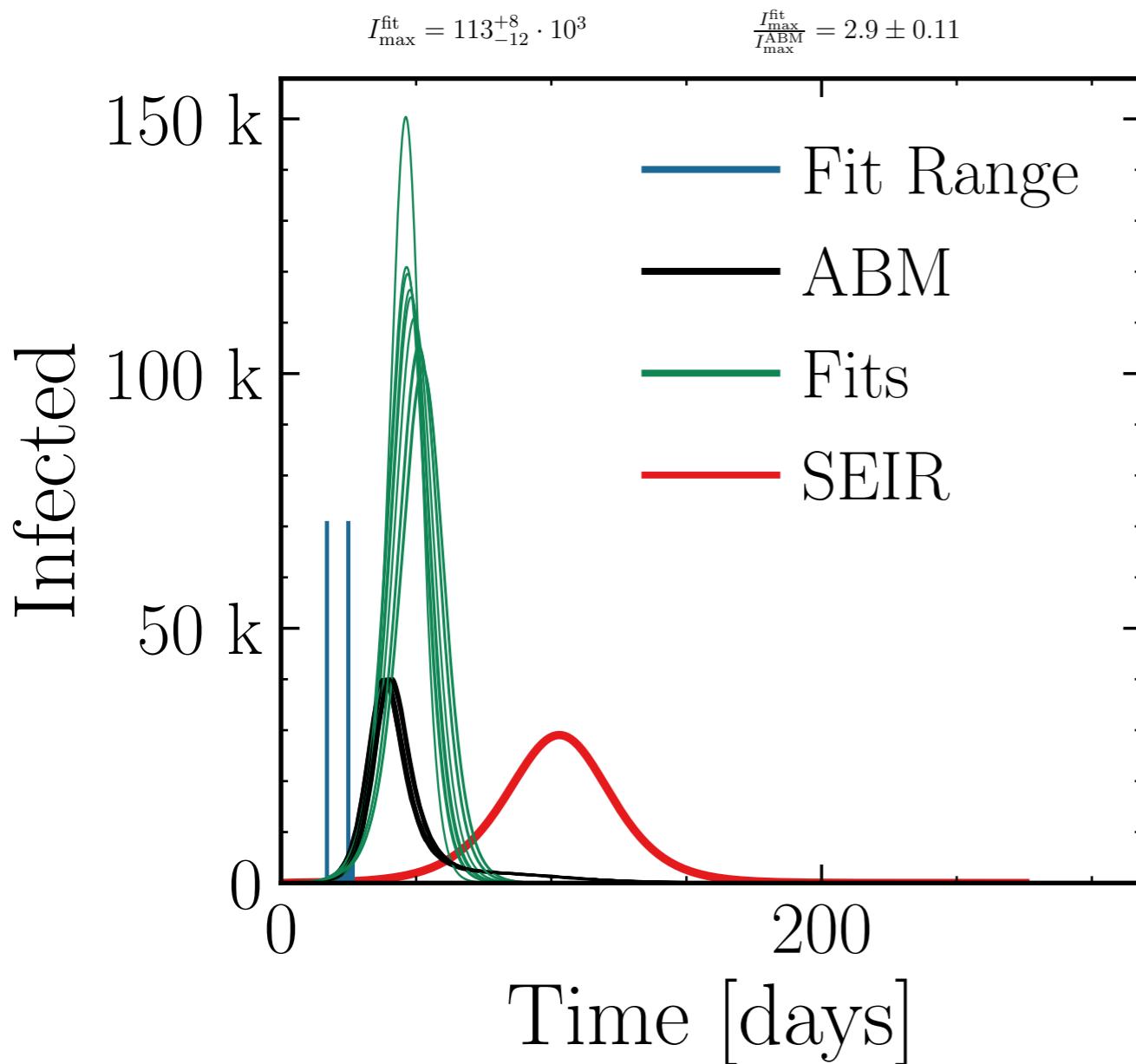
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 100.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



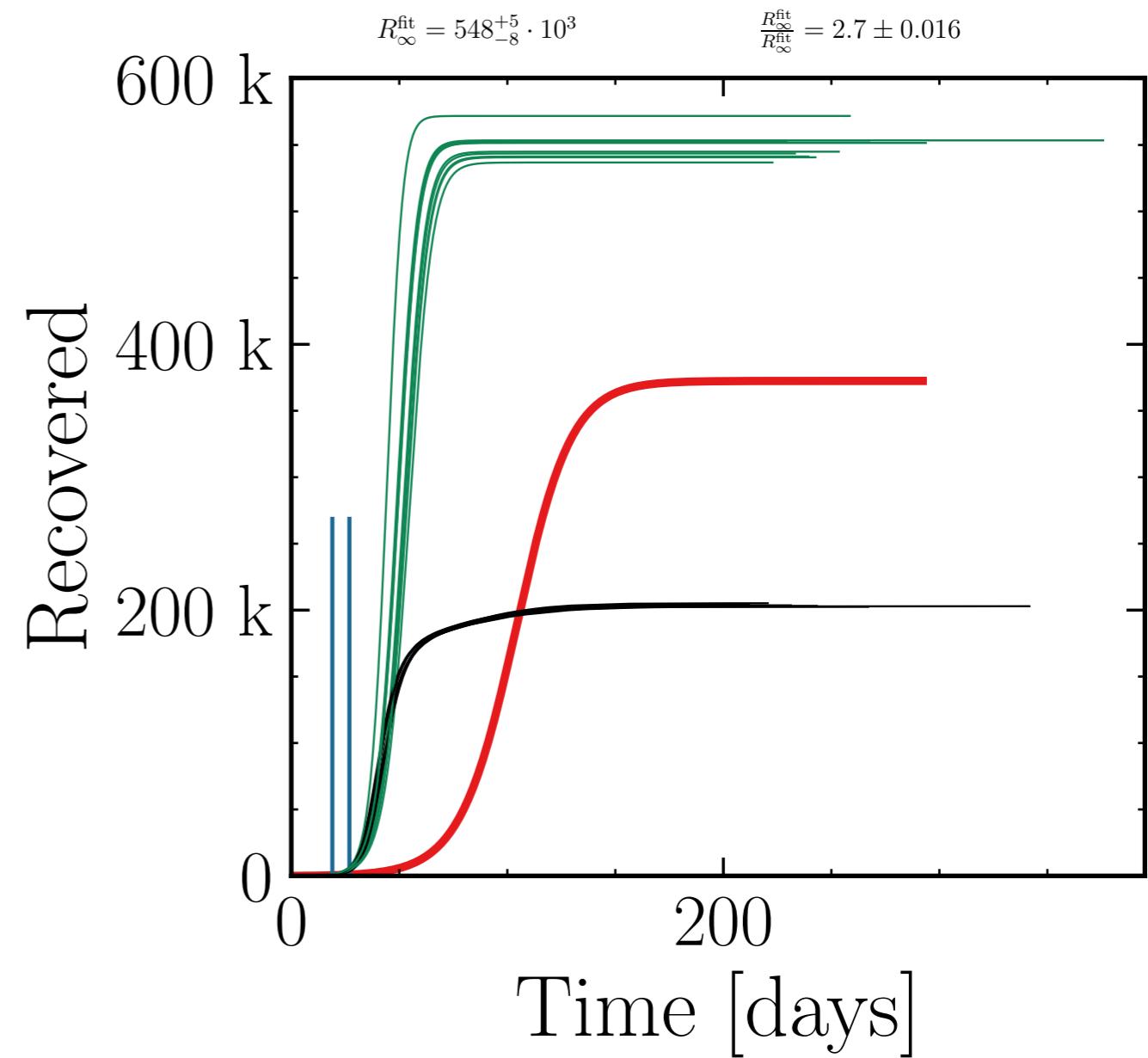
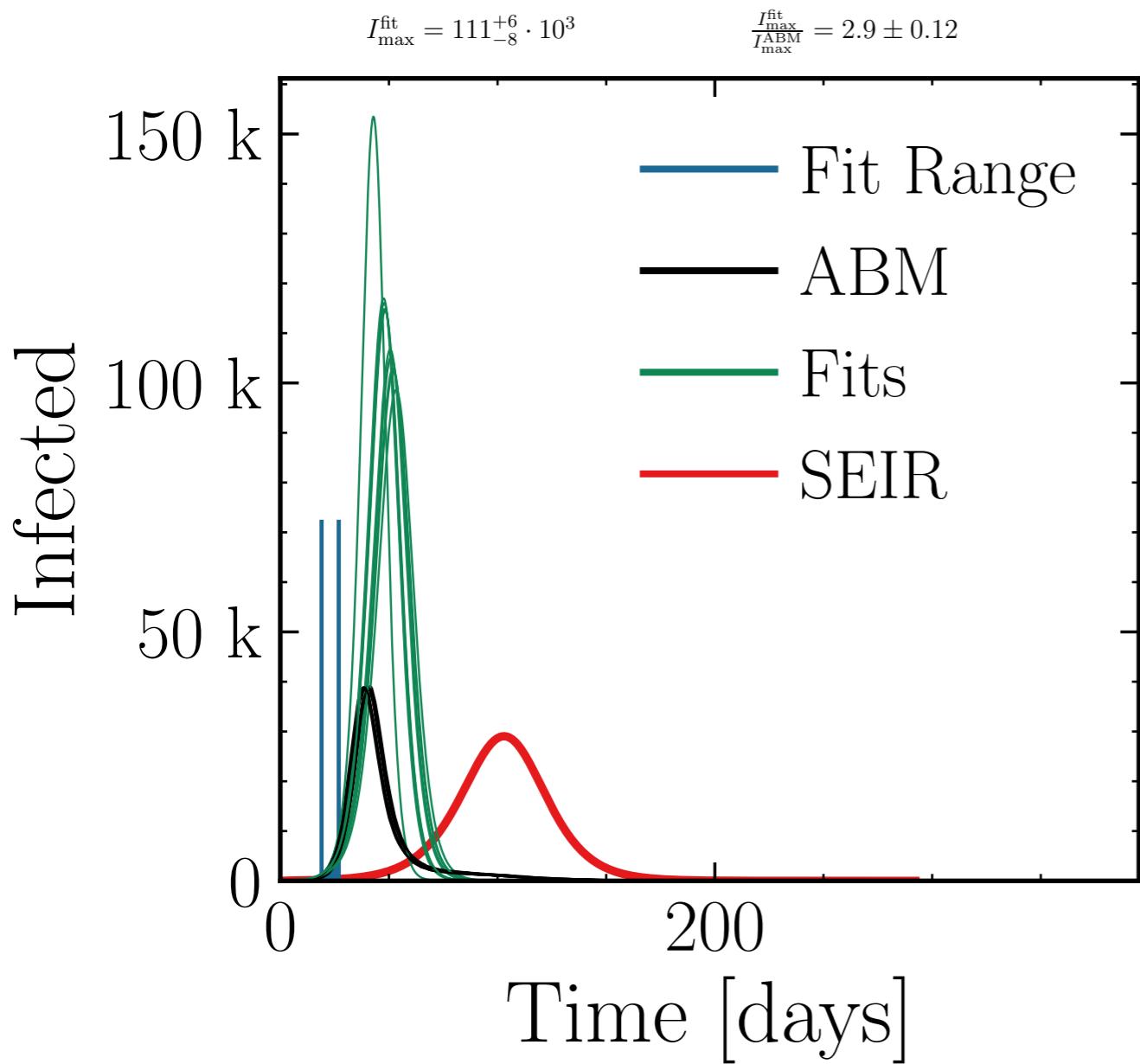
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



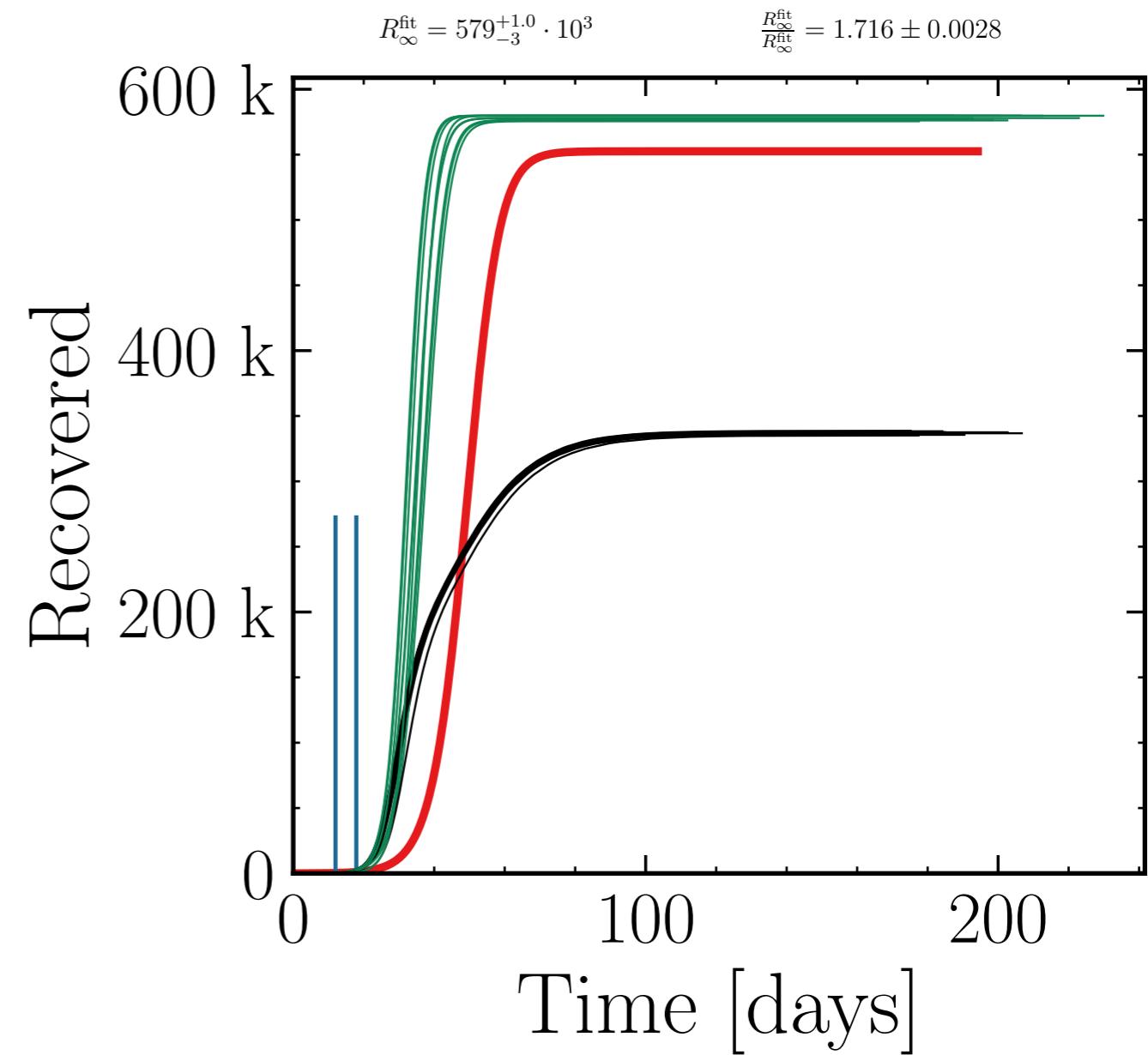
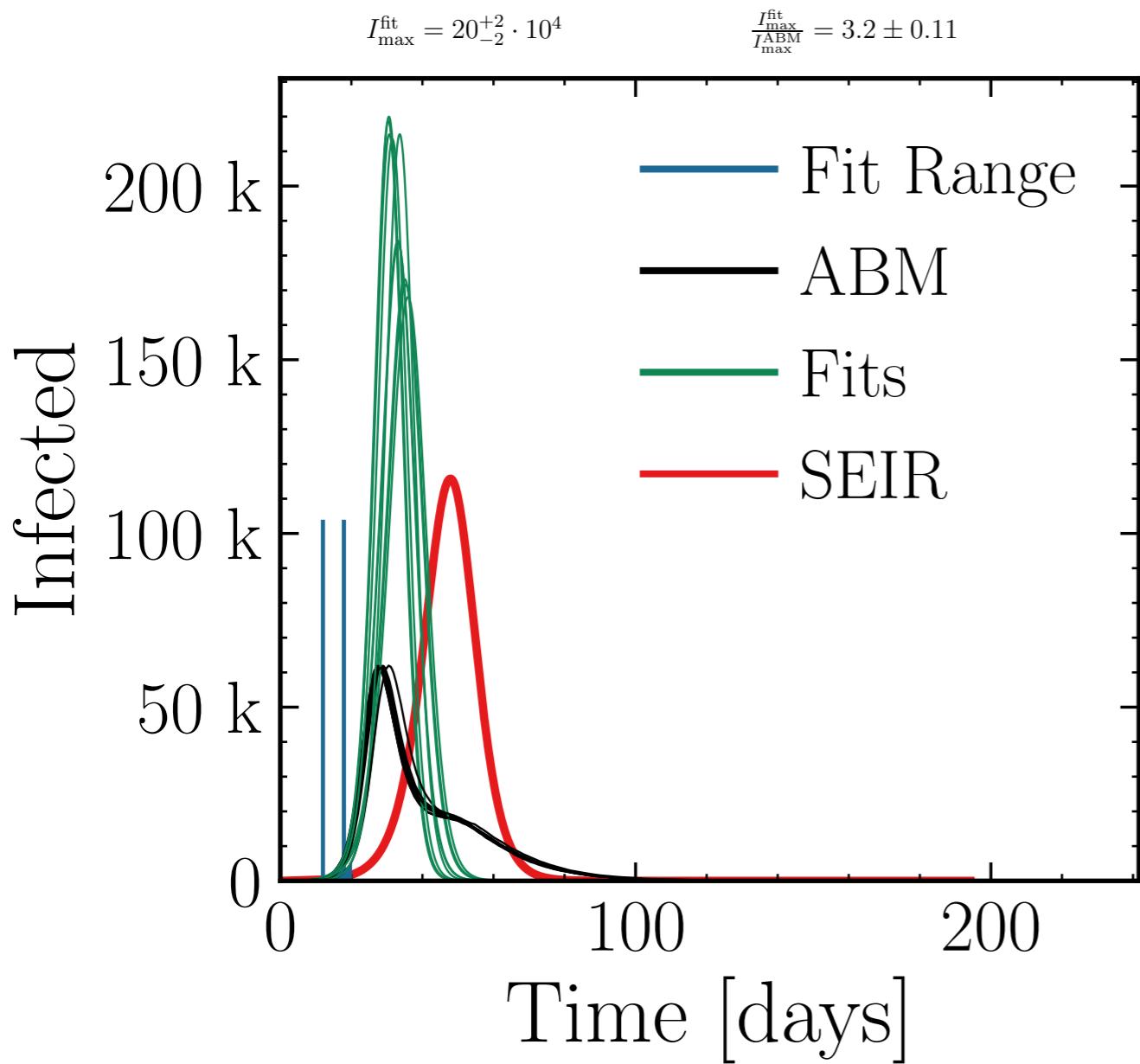
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



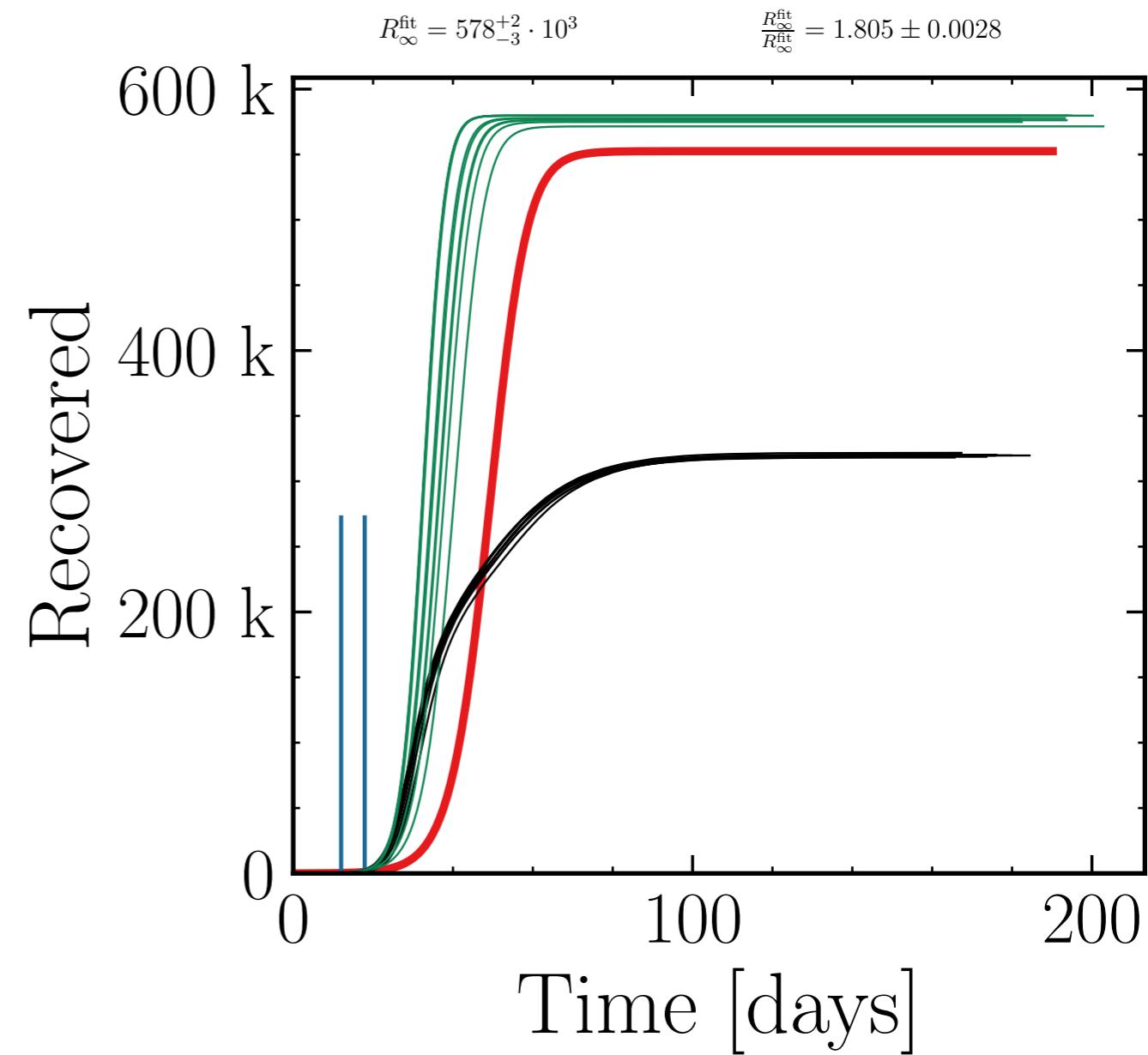
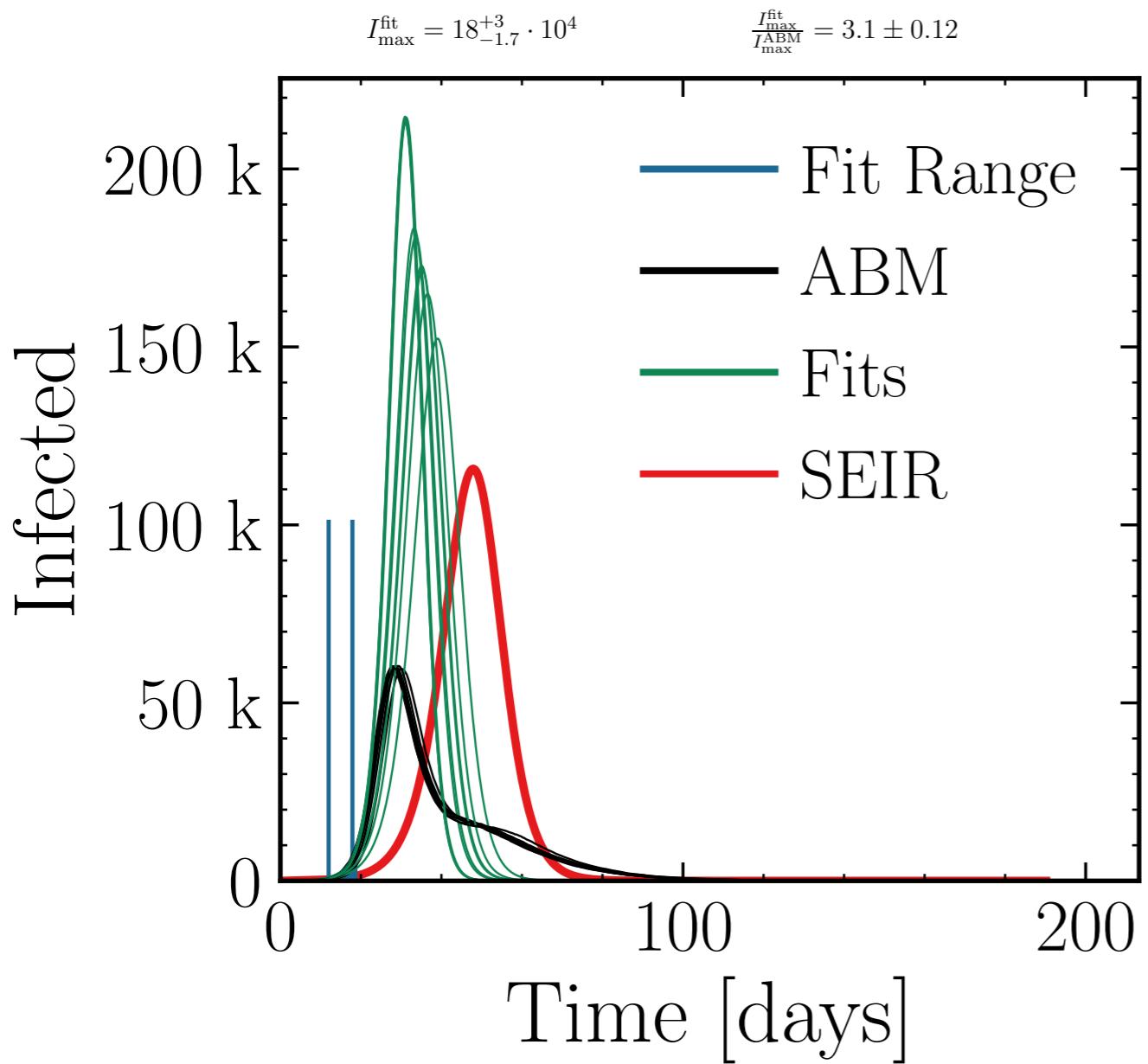
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



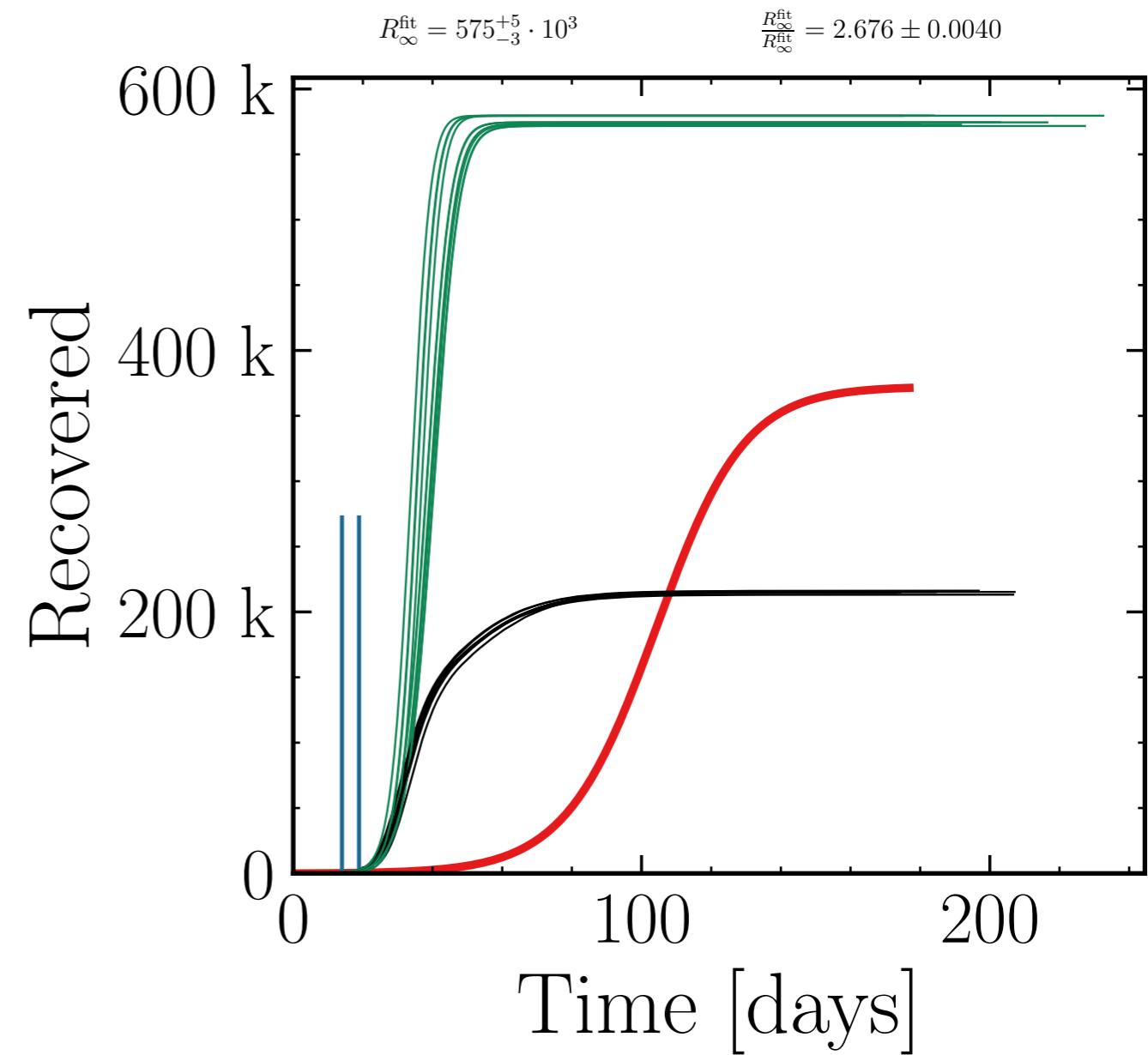
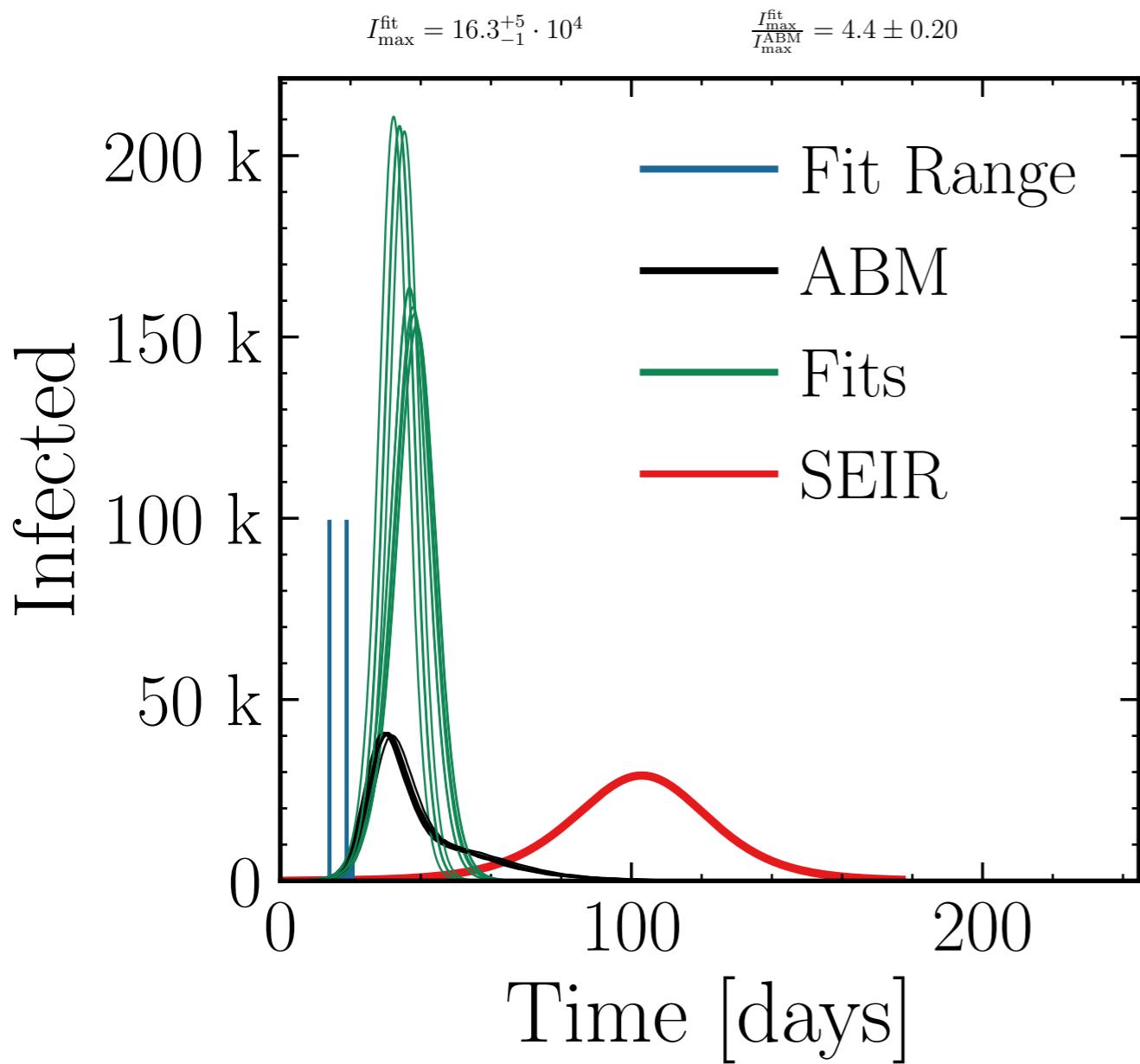
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



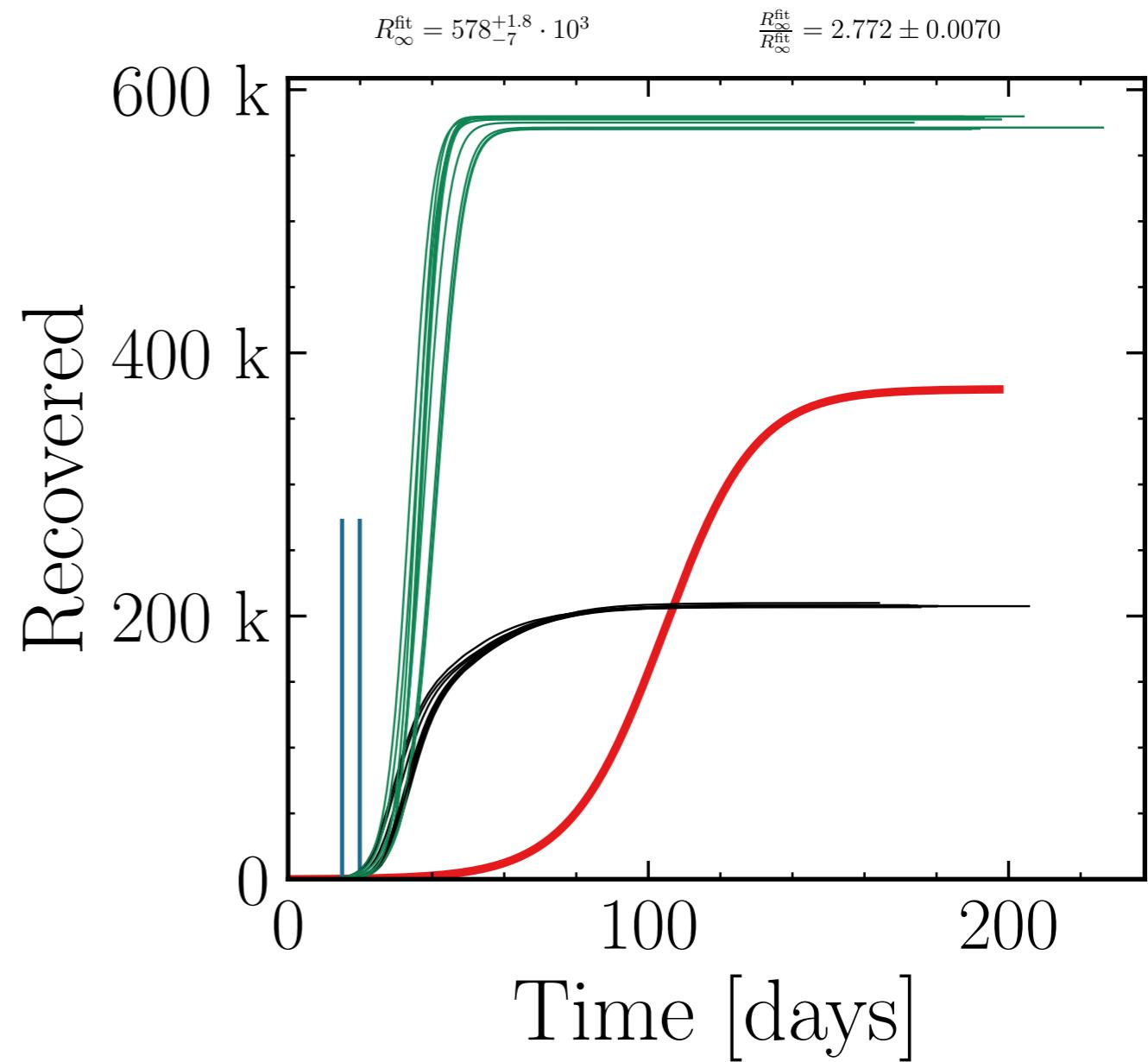
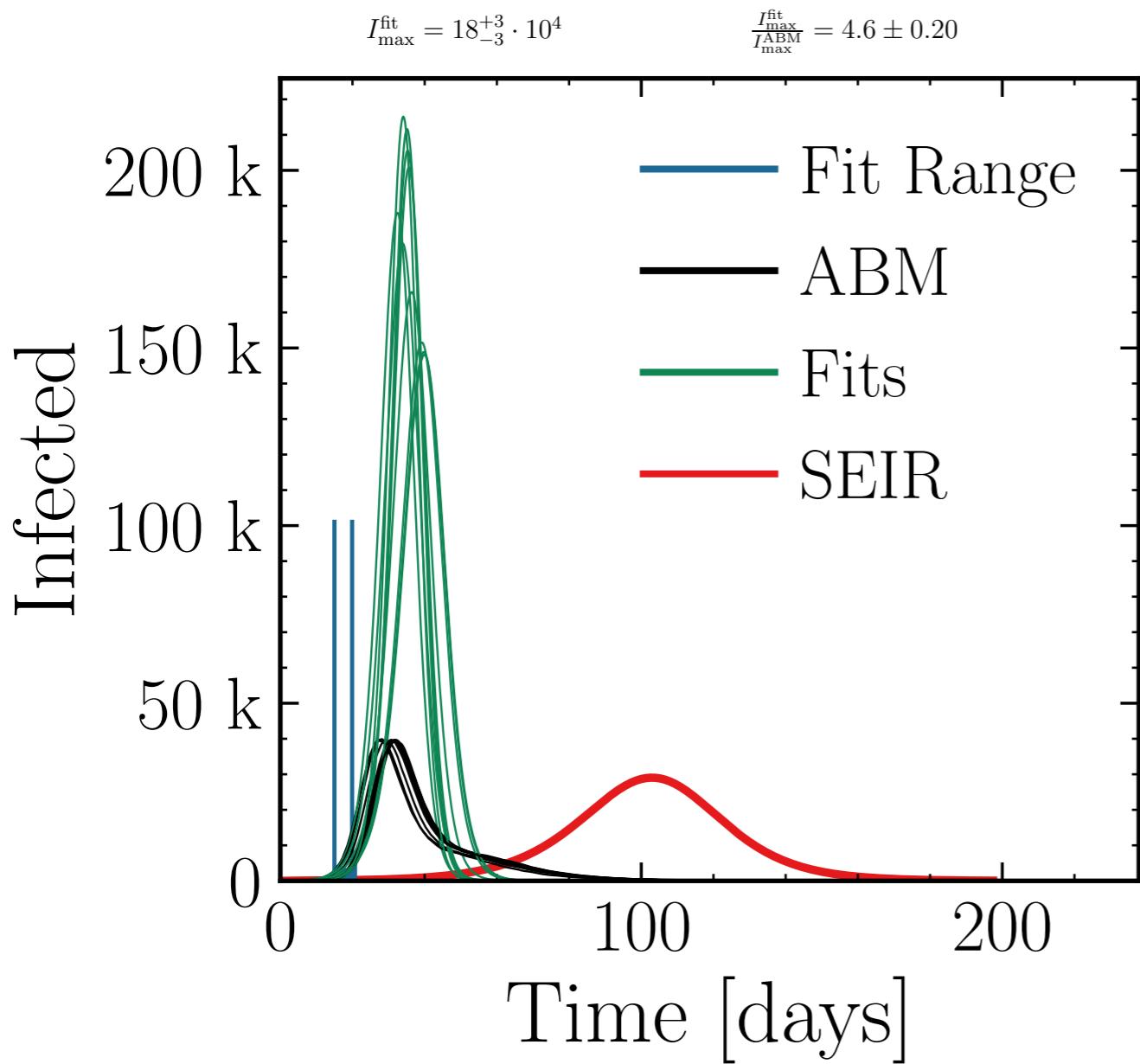
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



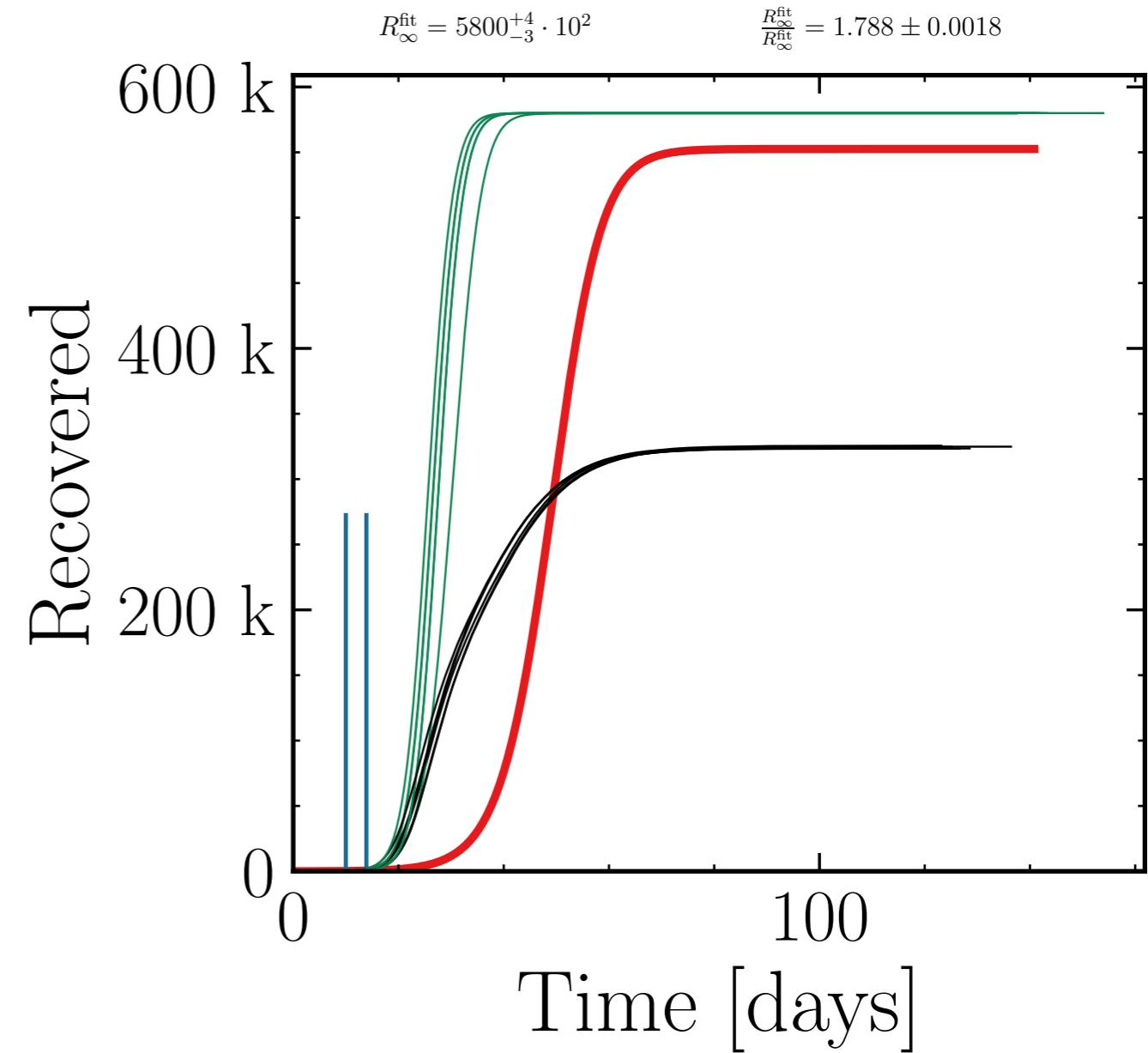
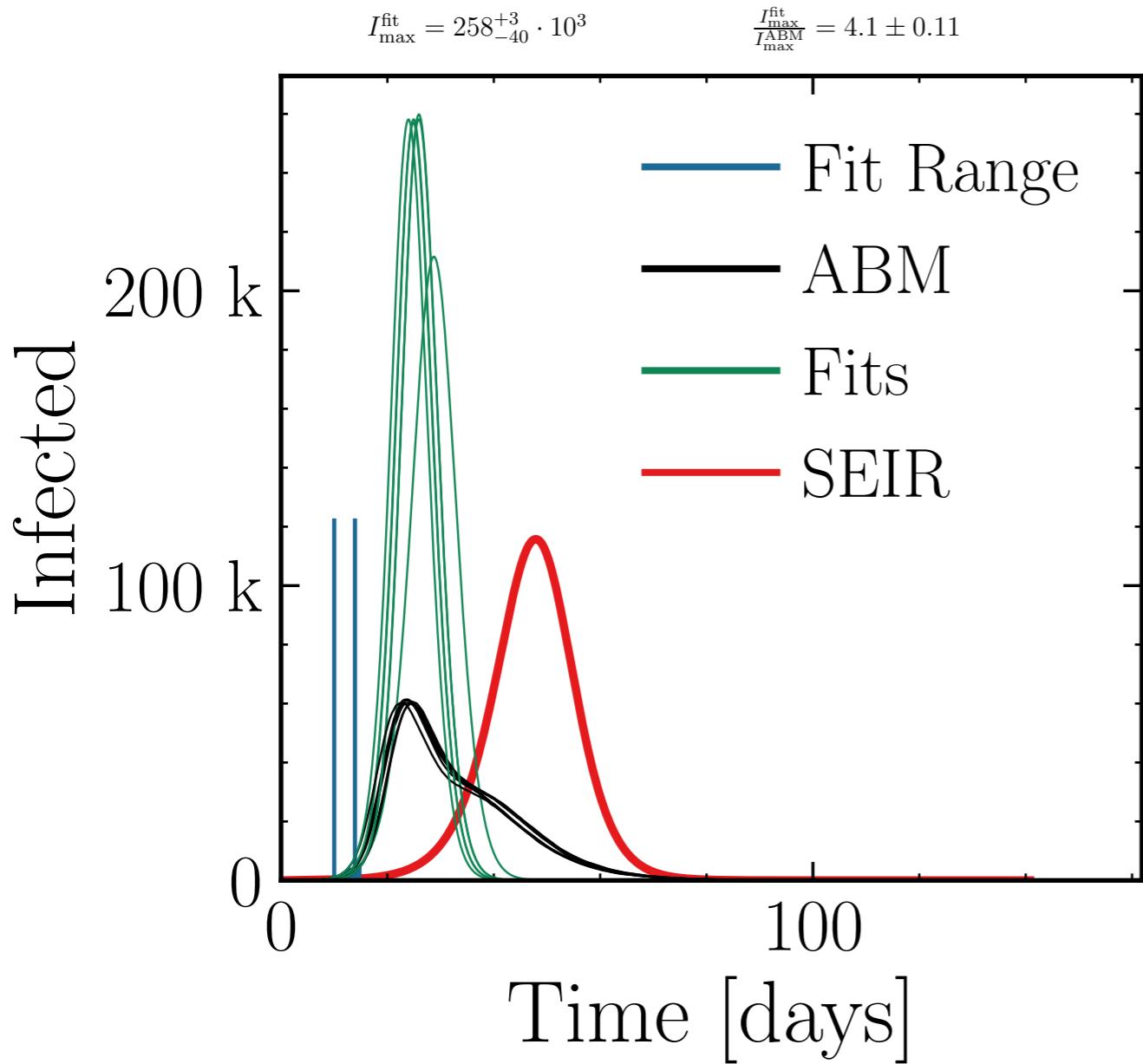
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



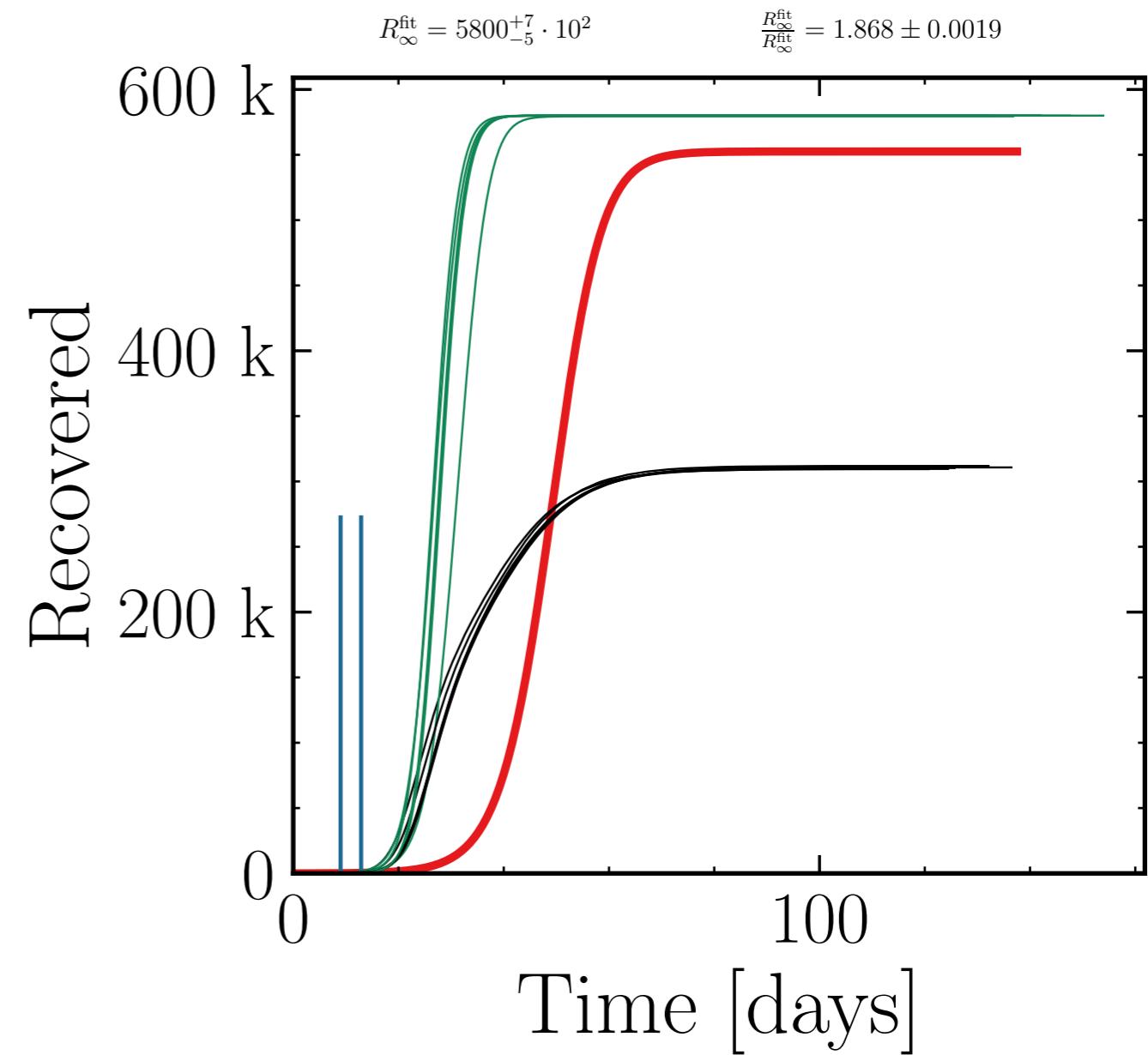
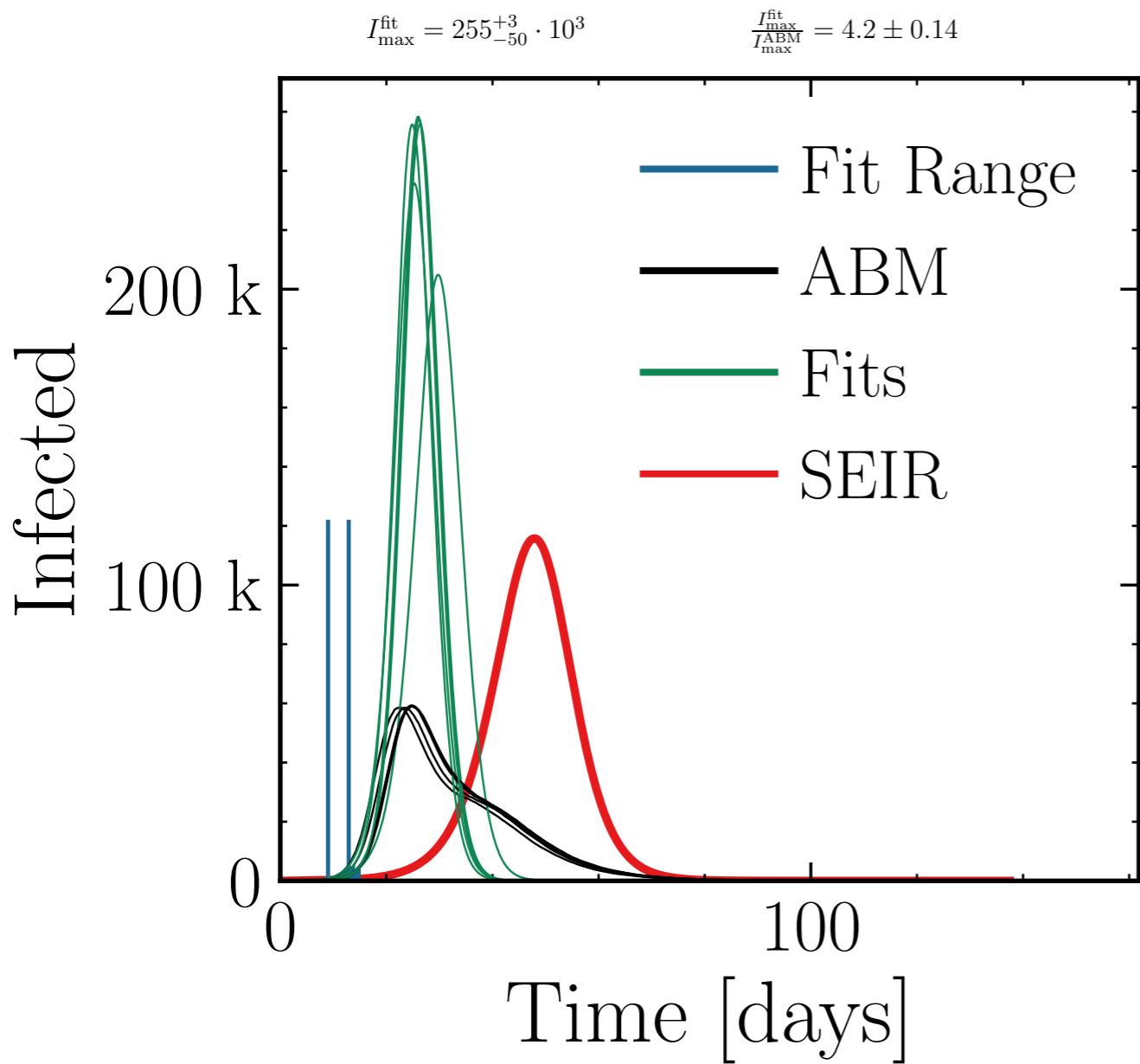
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #6



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #6



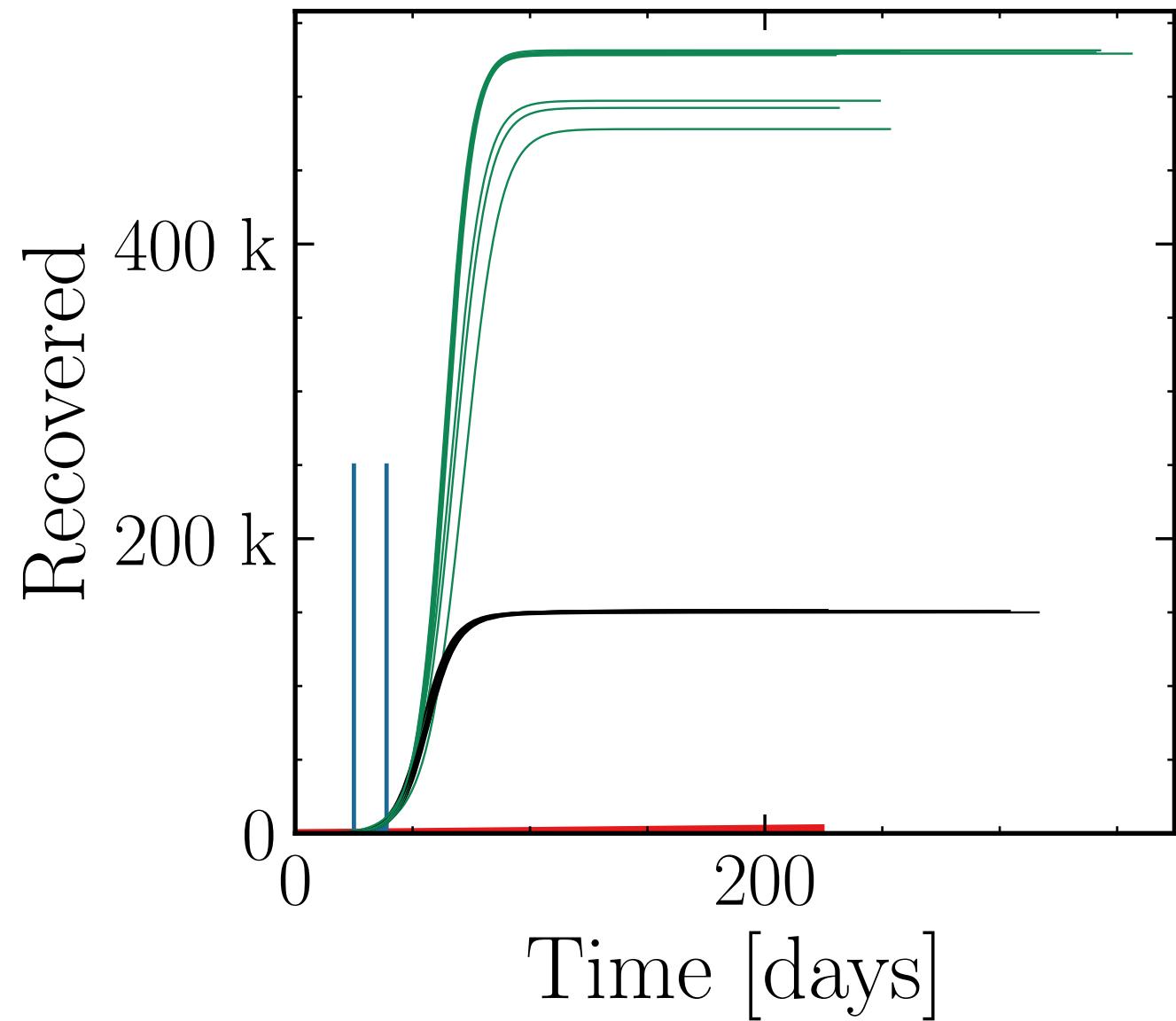
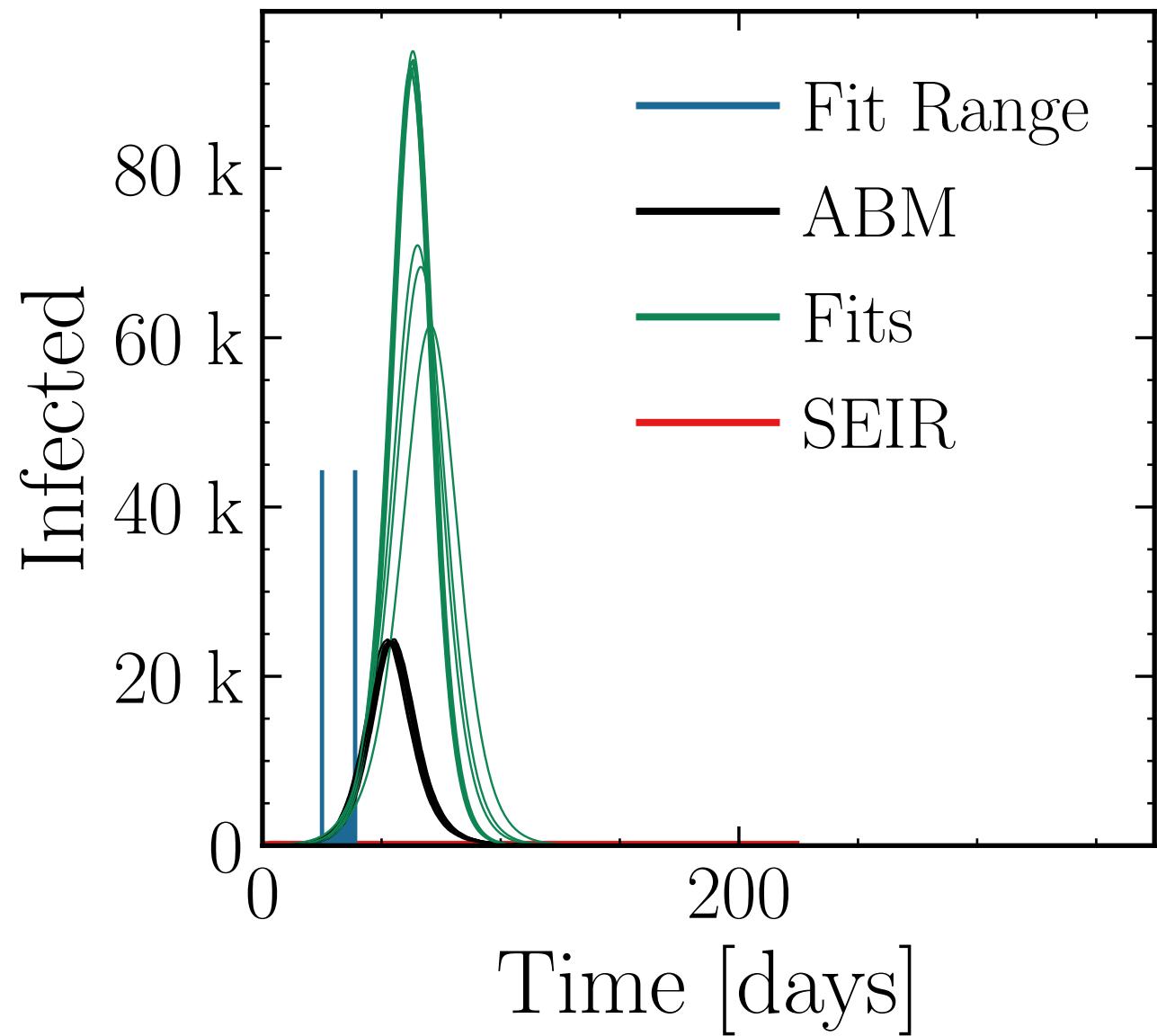
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 25.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 92_{-20}^{+1.9} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.5 \pm 0.16$$

$$R_{\infty}^{\text{fit}} = 529_{-40}^{+2} \cdot 10^3$$

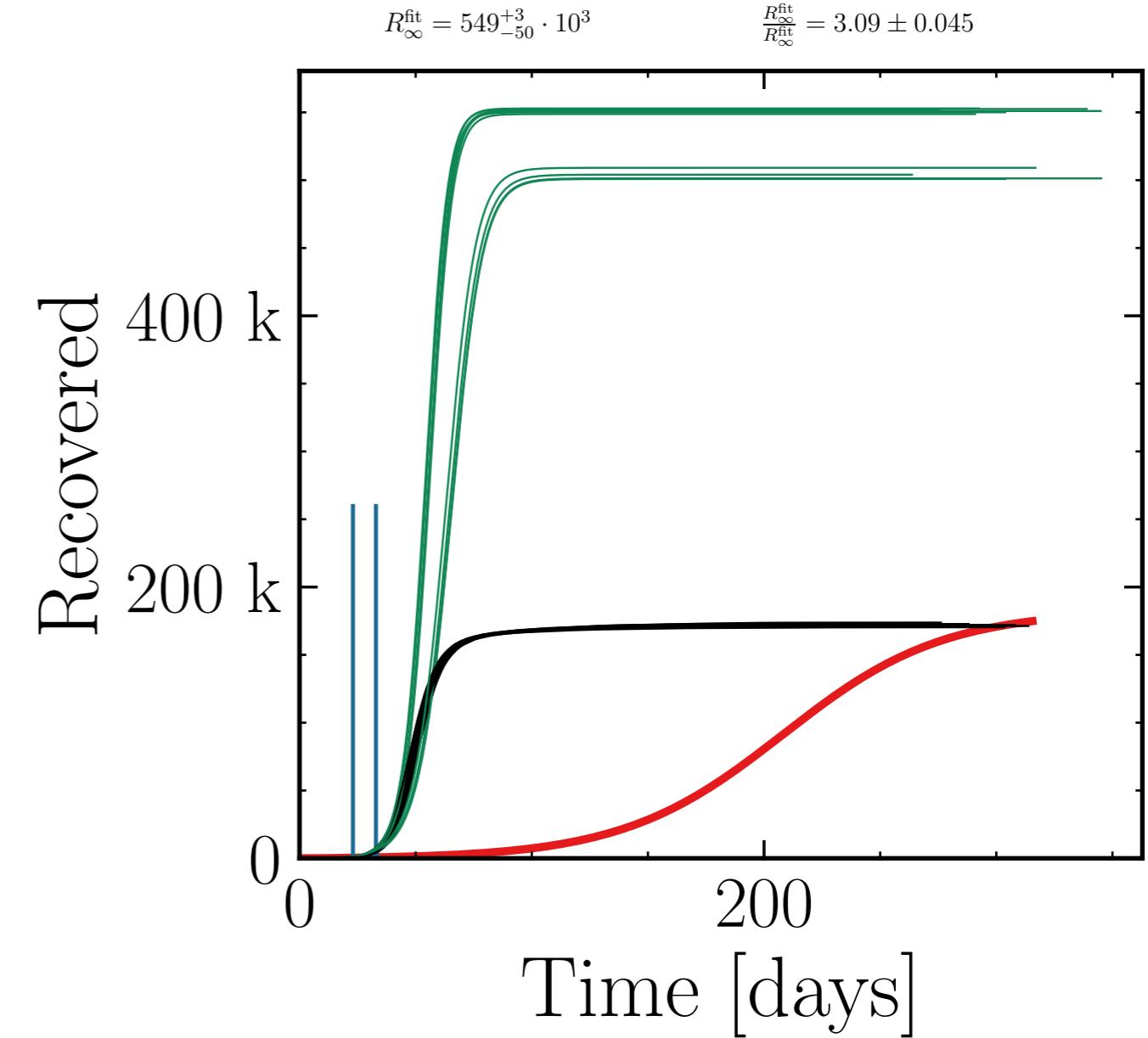
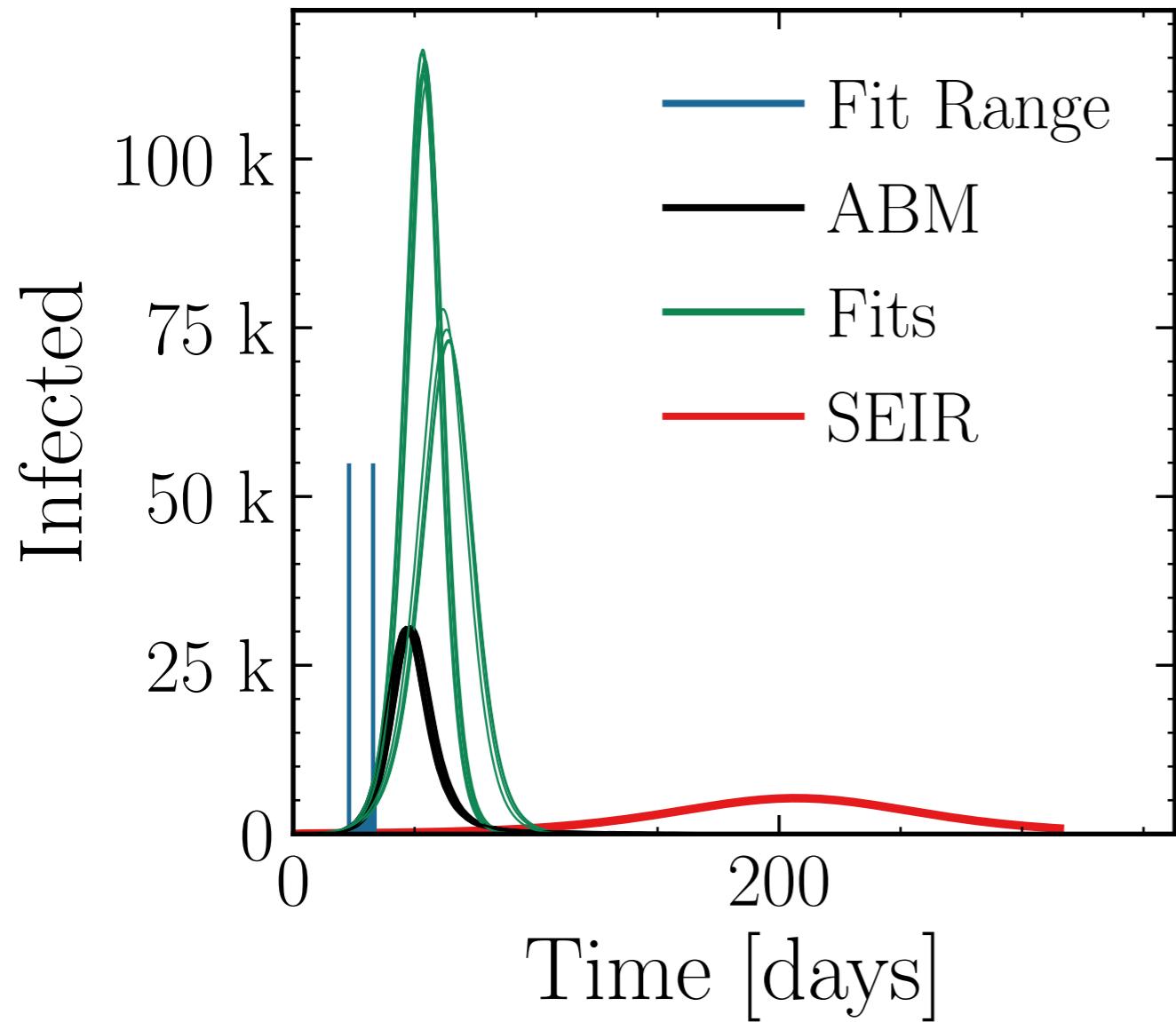
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.43 \pm 0.041$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 112^{+4}_{-40} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 3.2 \pm 0.20$$



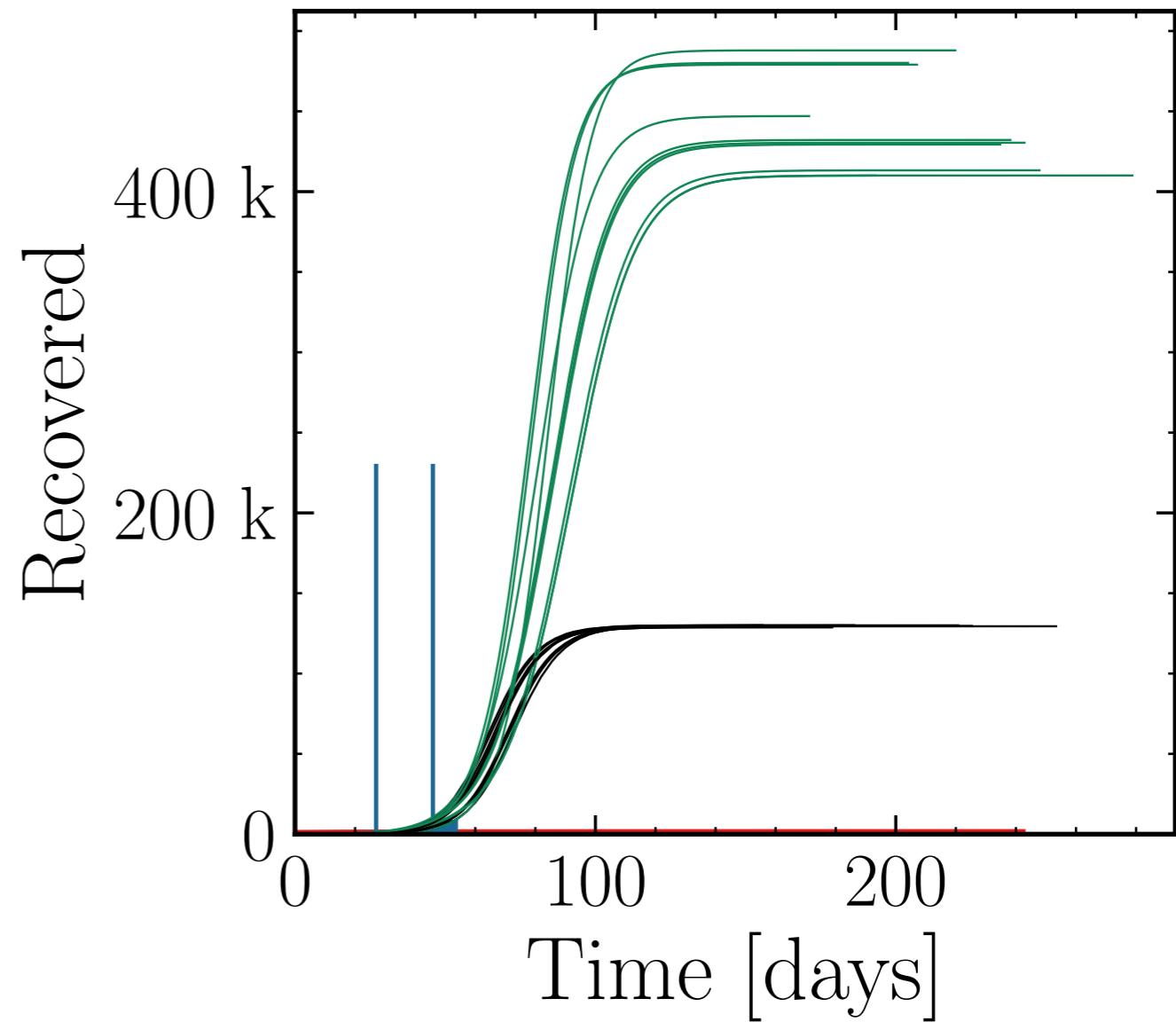
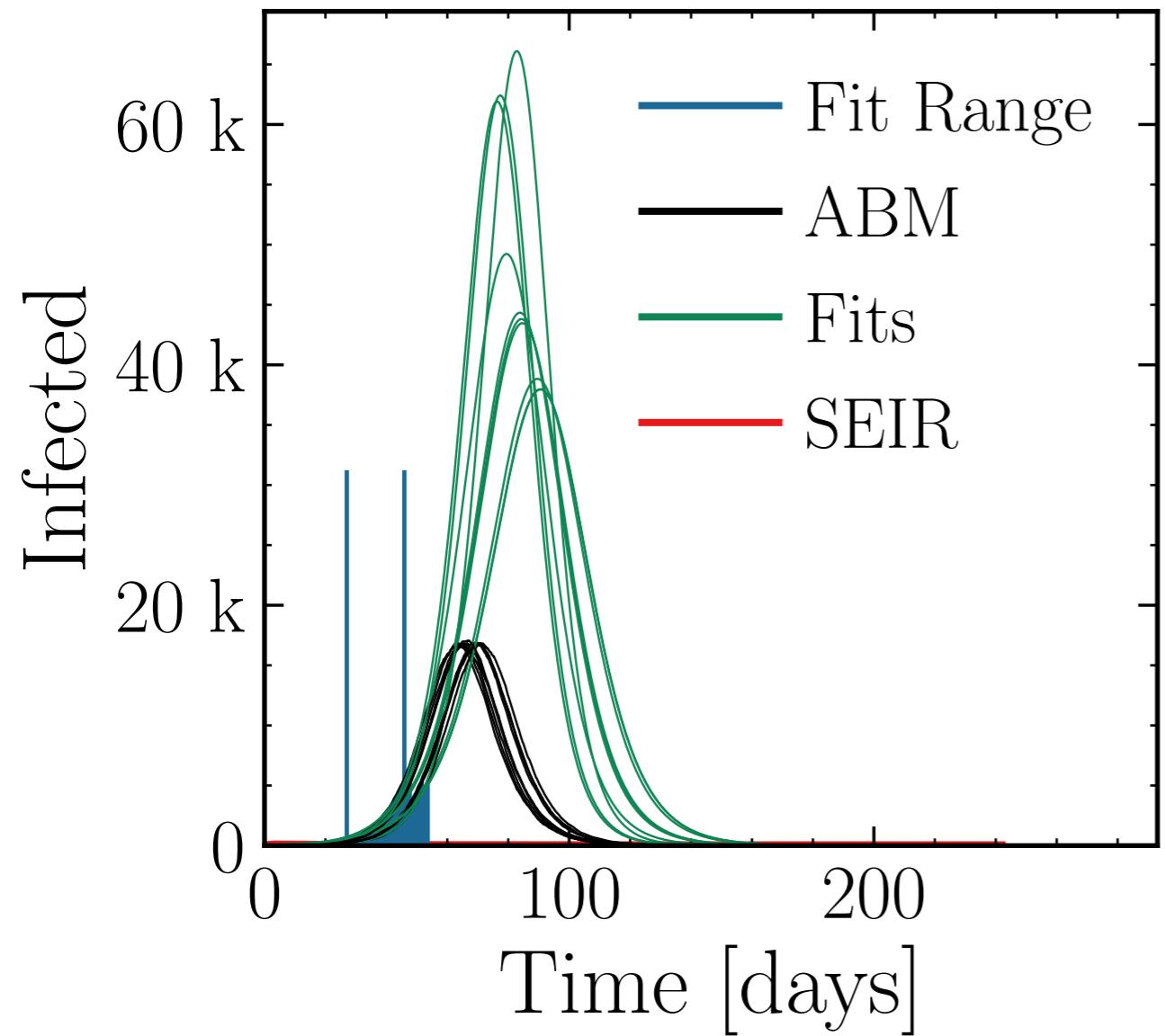
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 4.4^{+1.8}_{-0.6} \cdot 10^4$$

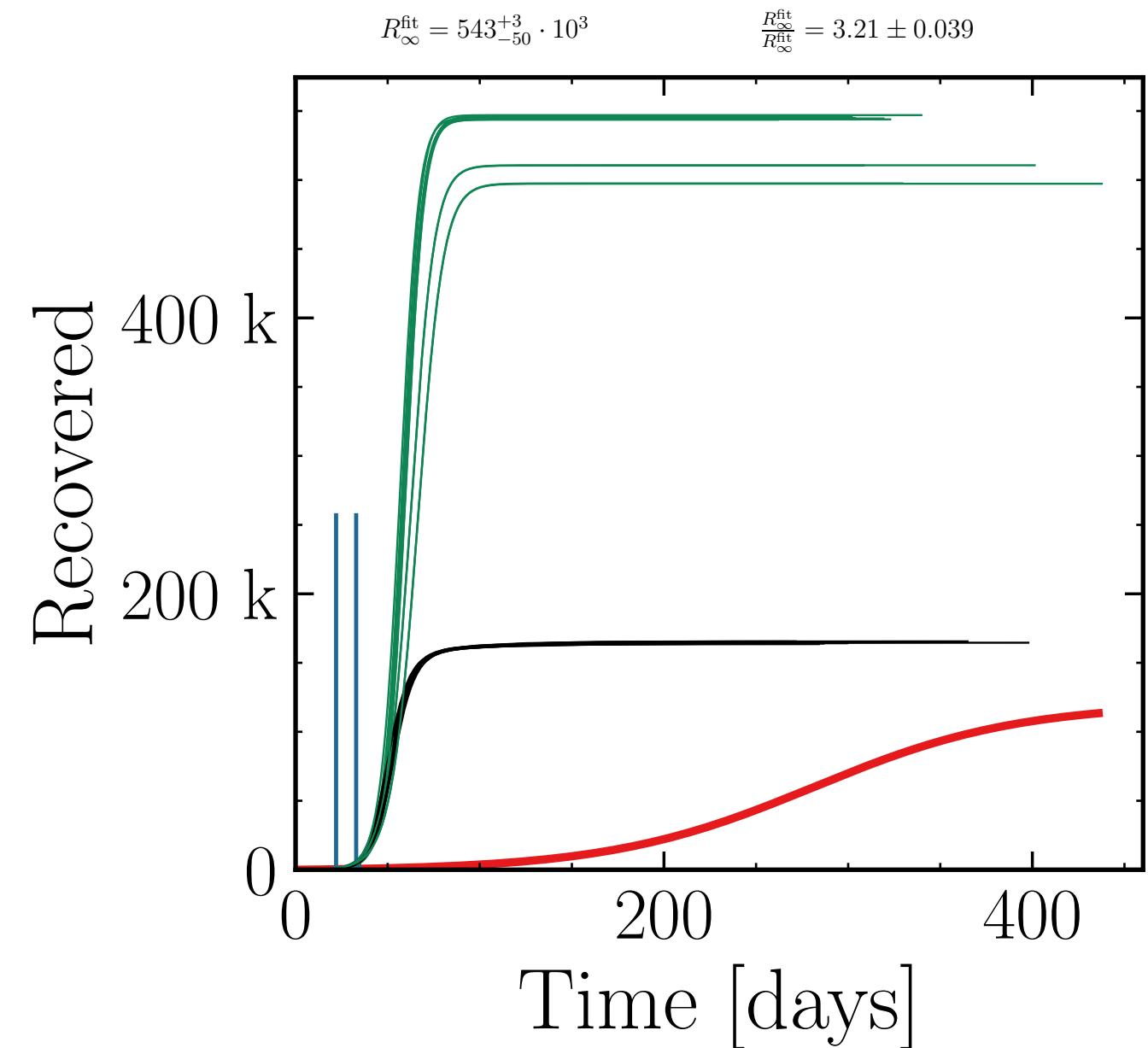
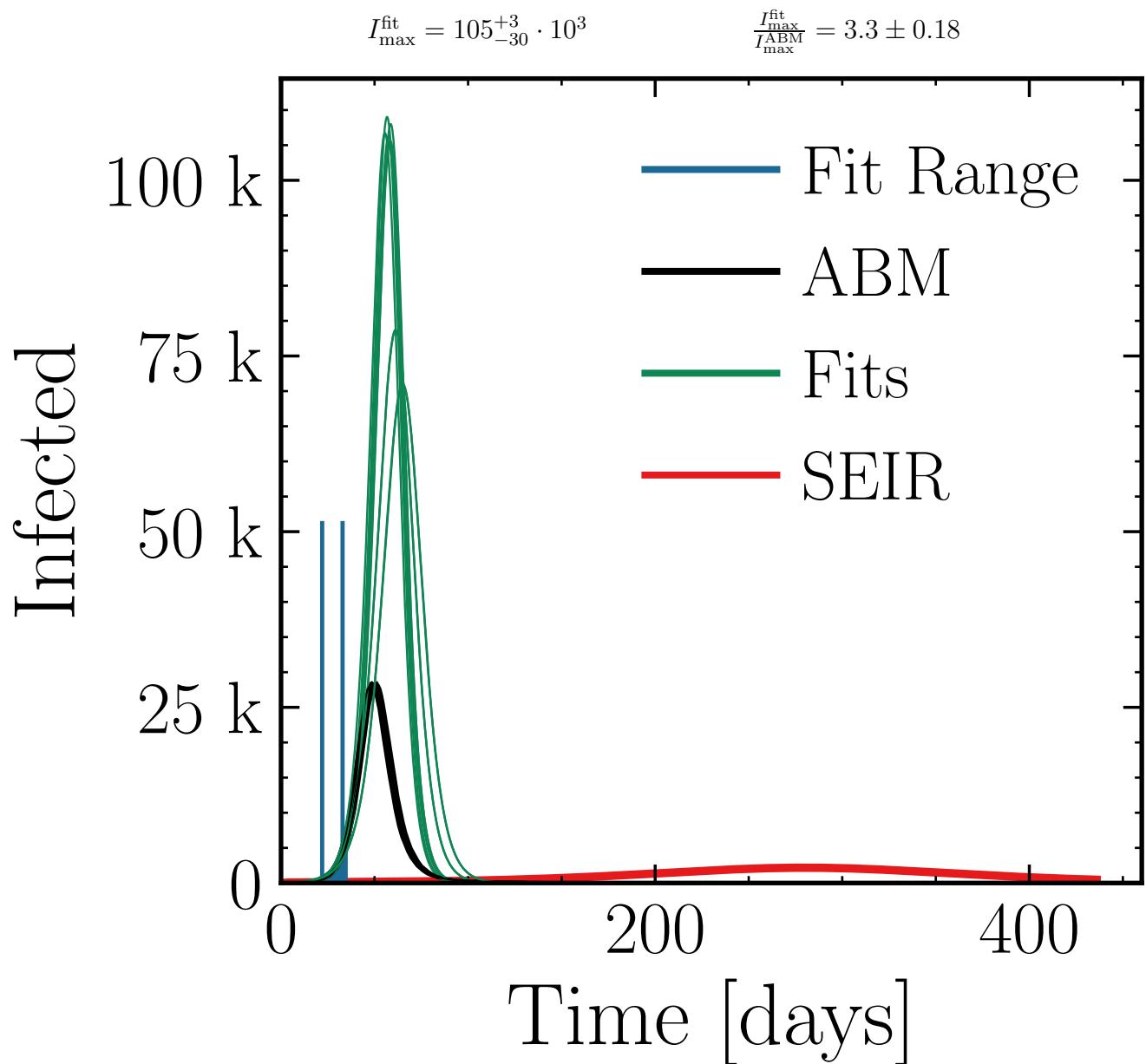
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.9 \pm 0.20$$

$$R_{\infty}^{\text{fit}} = 43^{+5}_{-2} \cdot 10^4$$

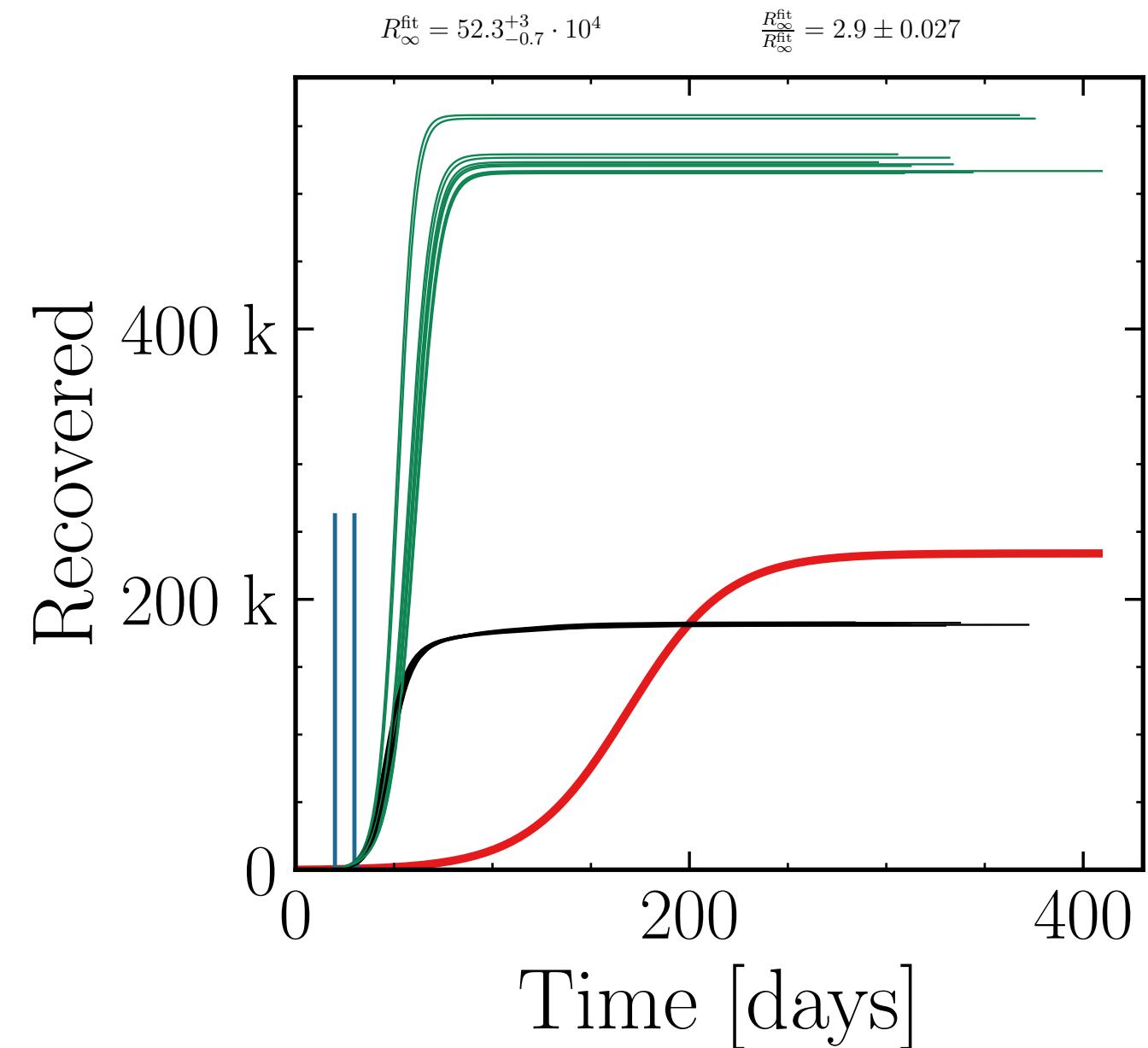
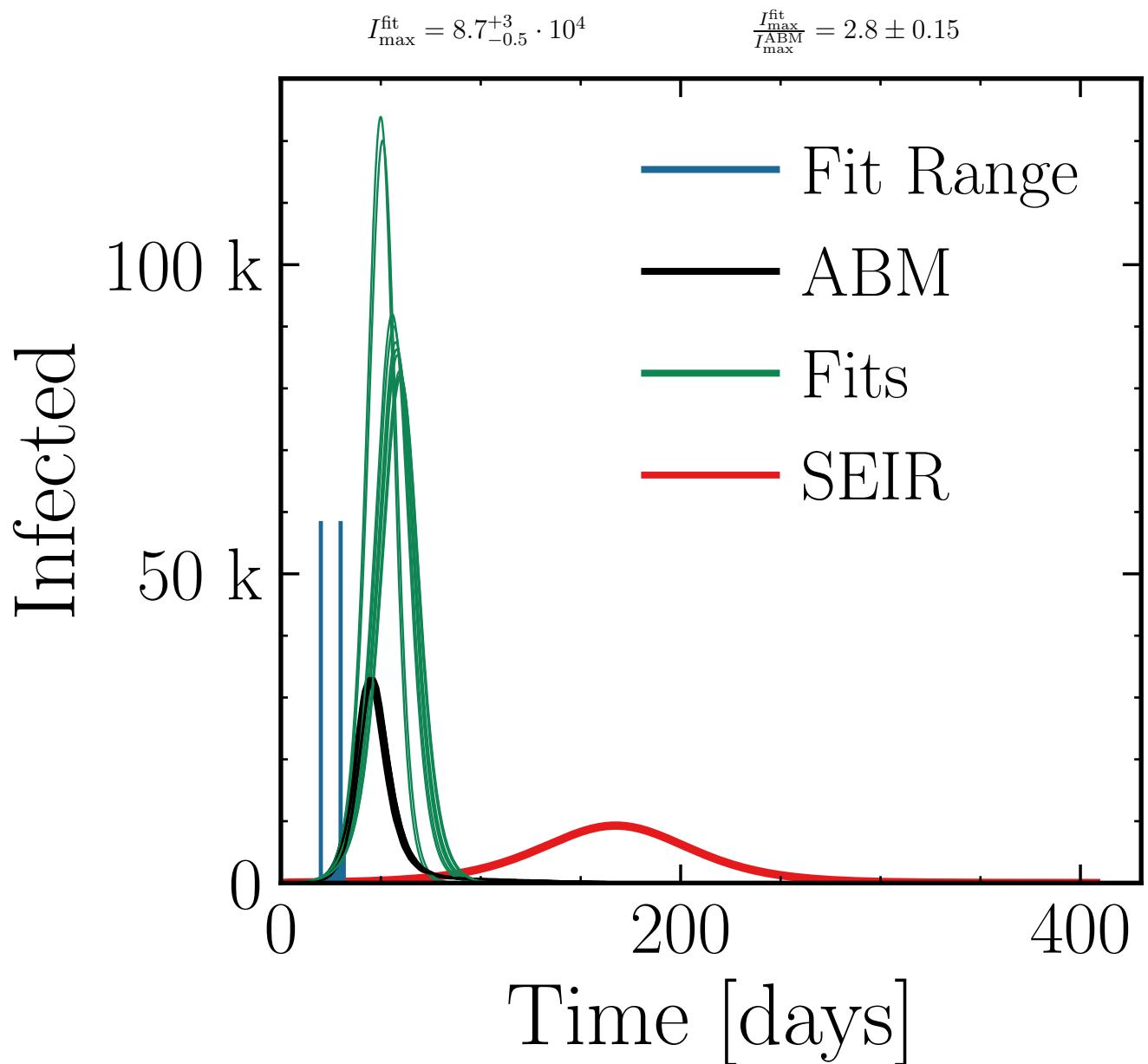
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.41 \pm 0.070$$



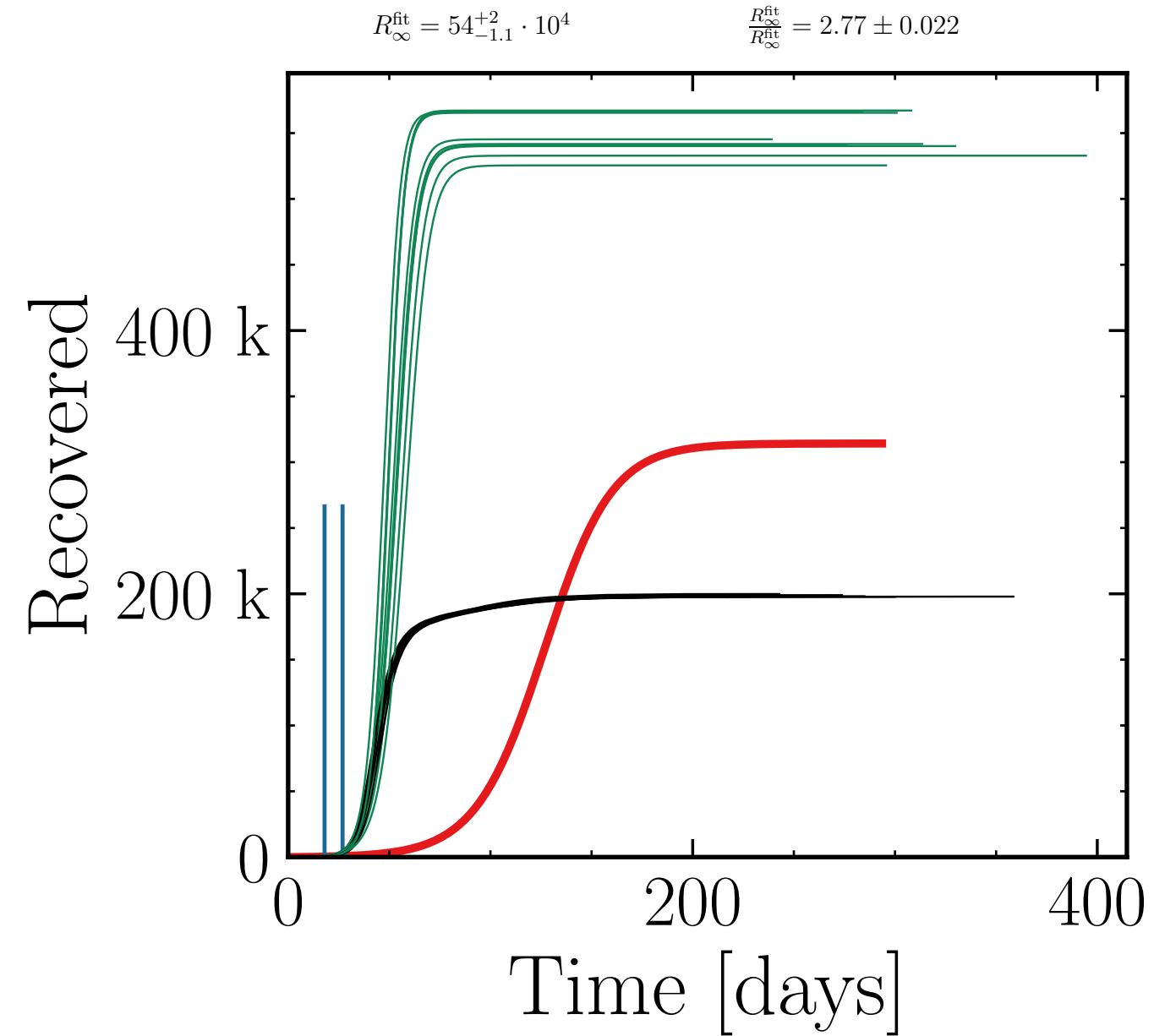
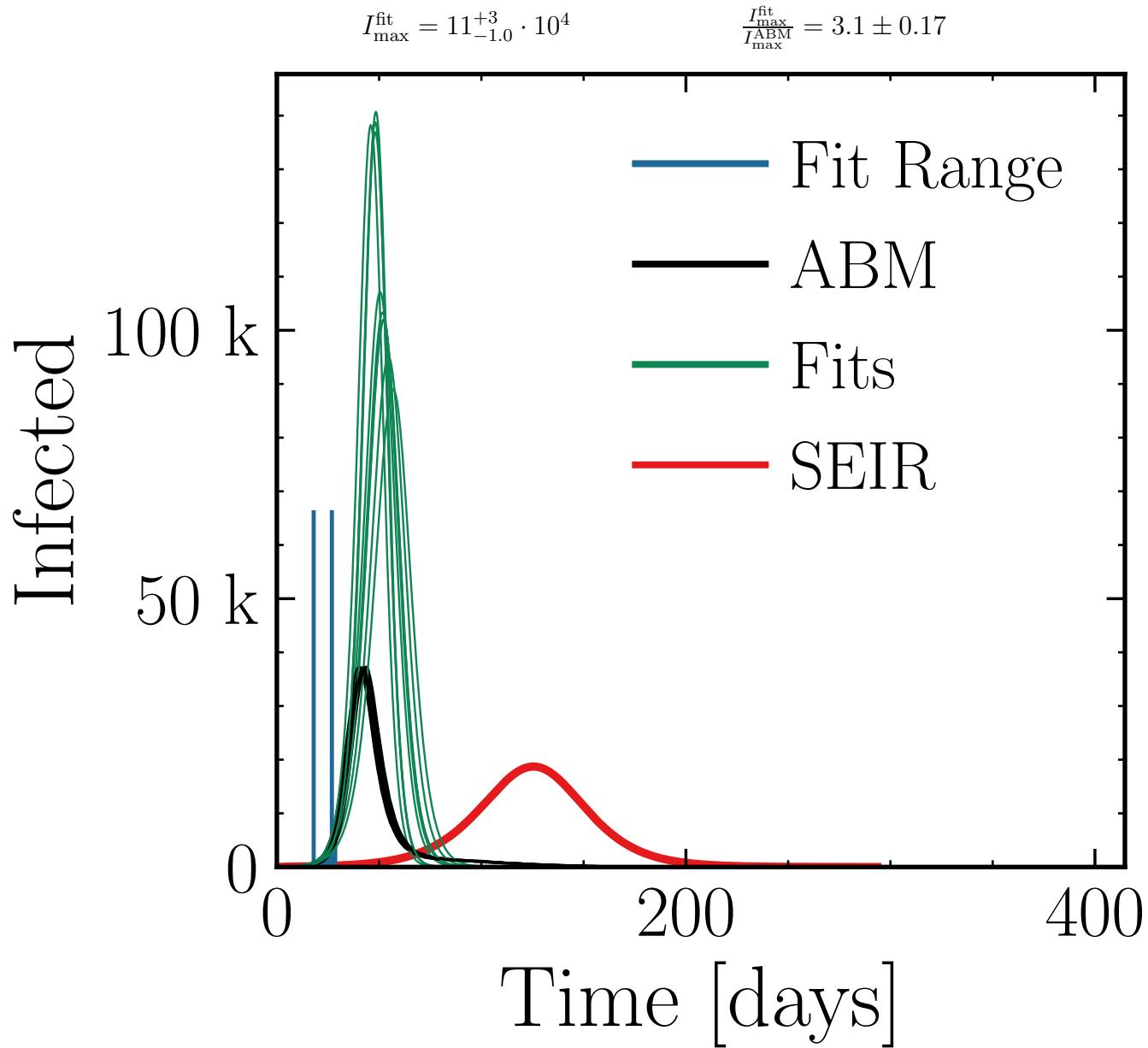
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.007$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



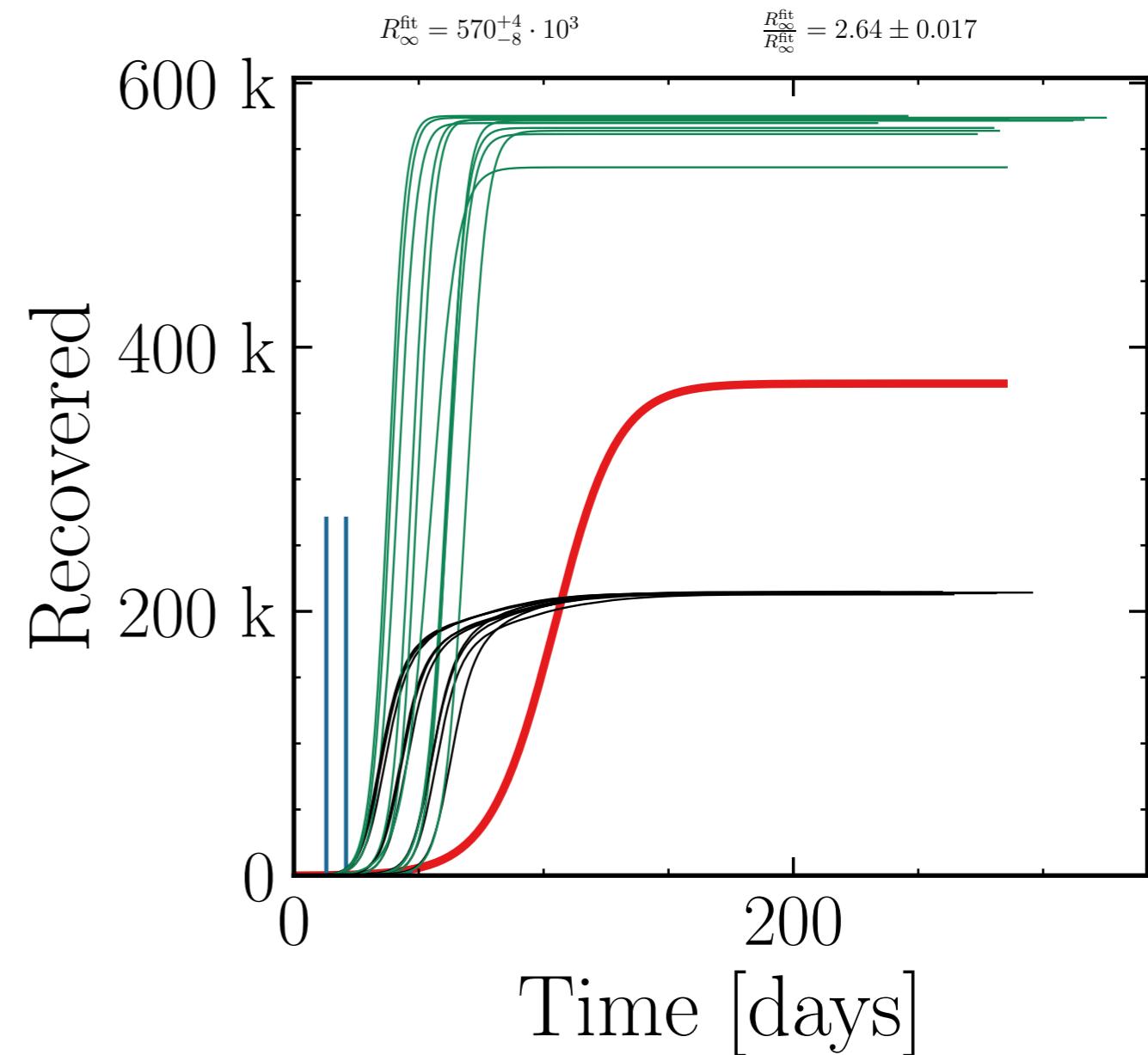
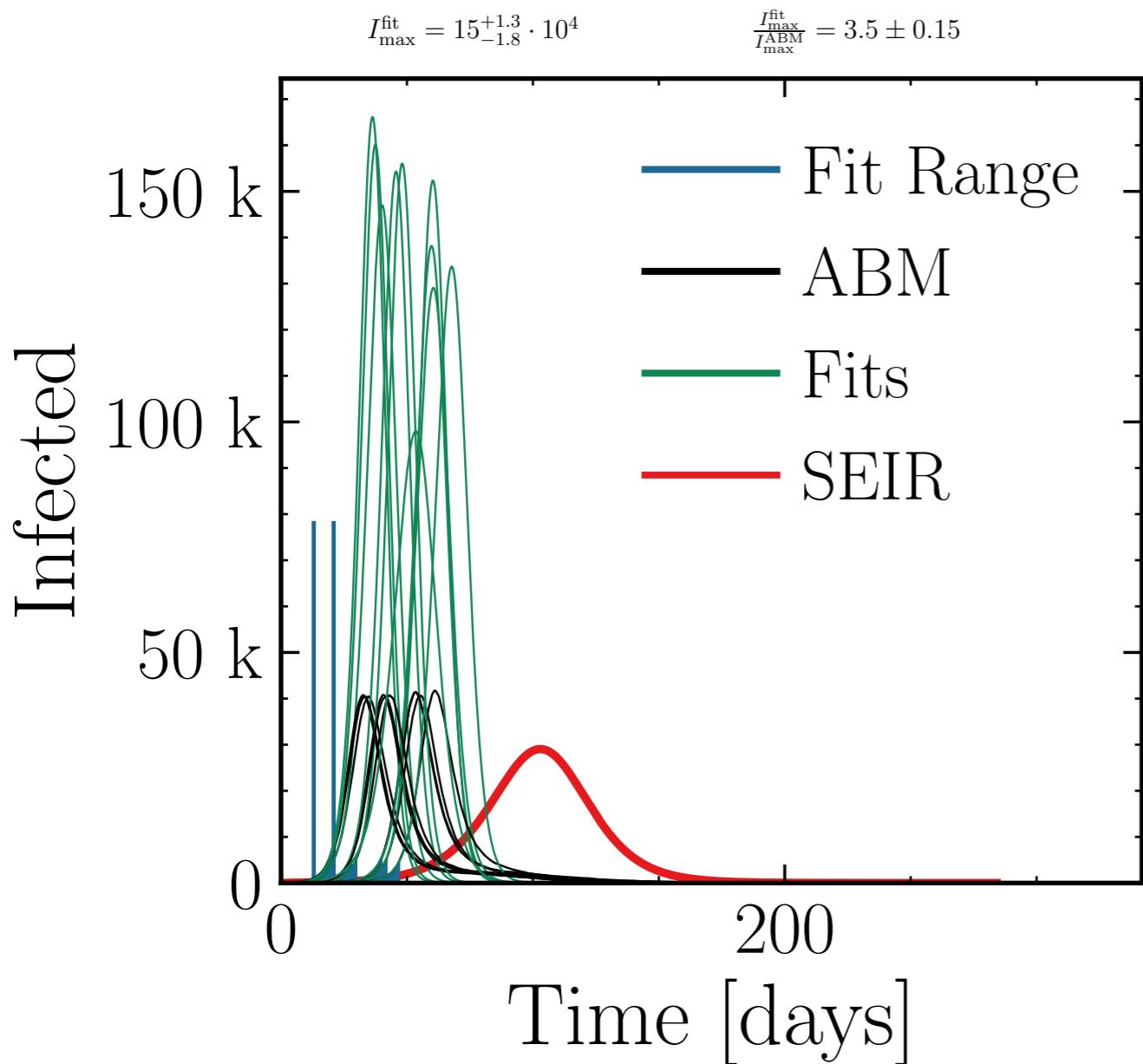
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.008$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



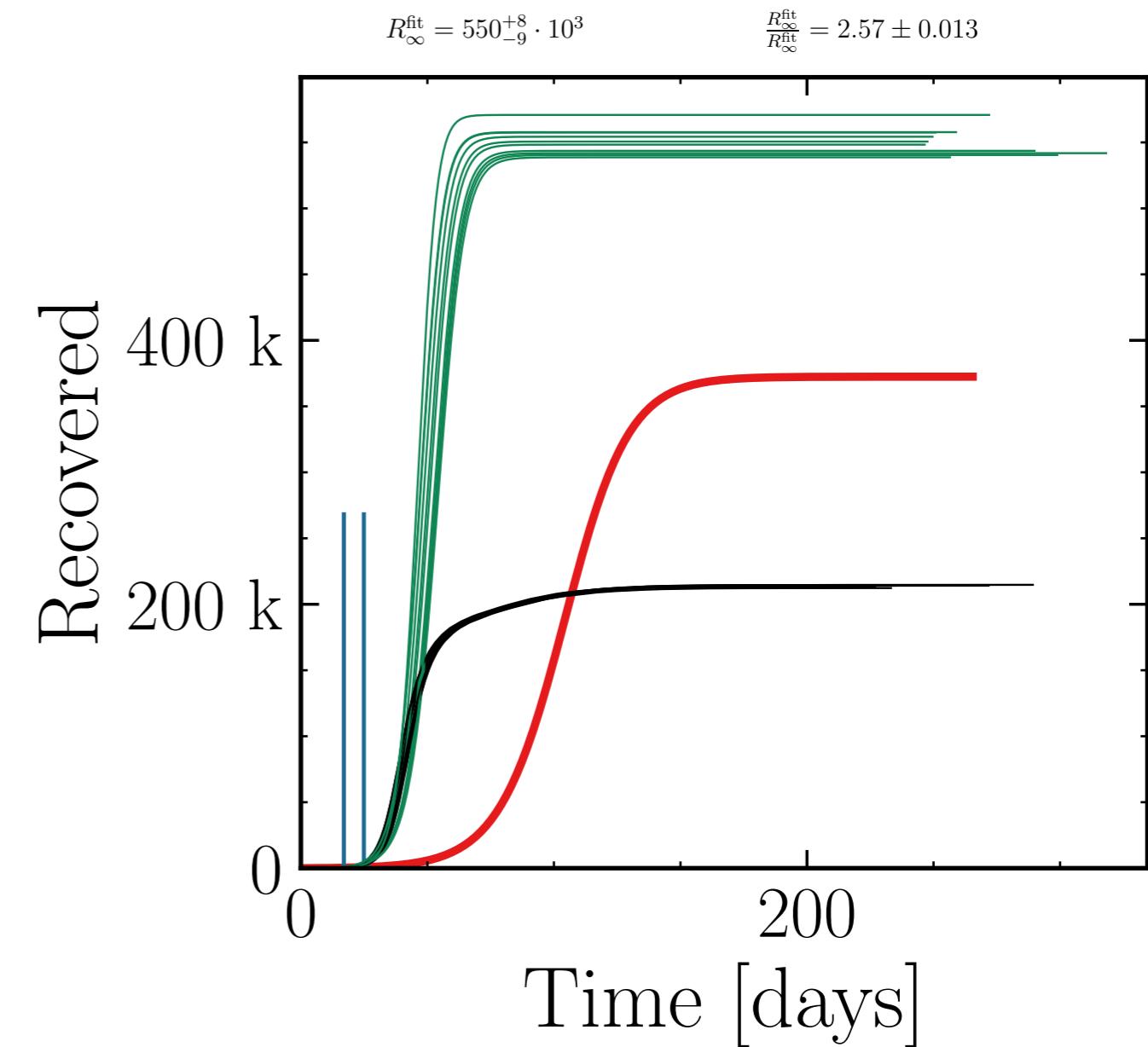
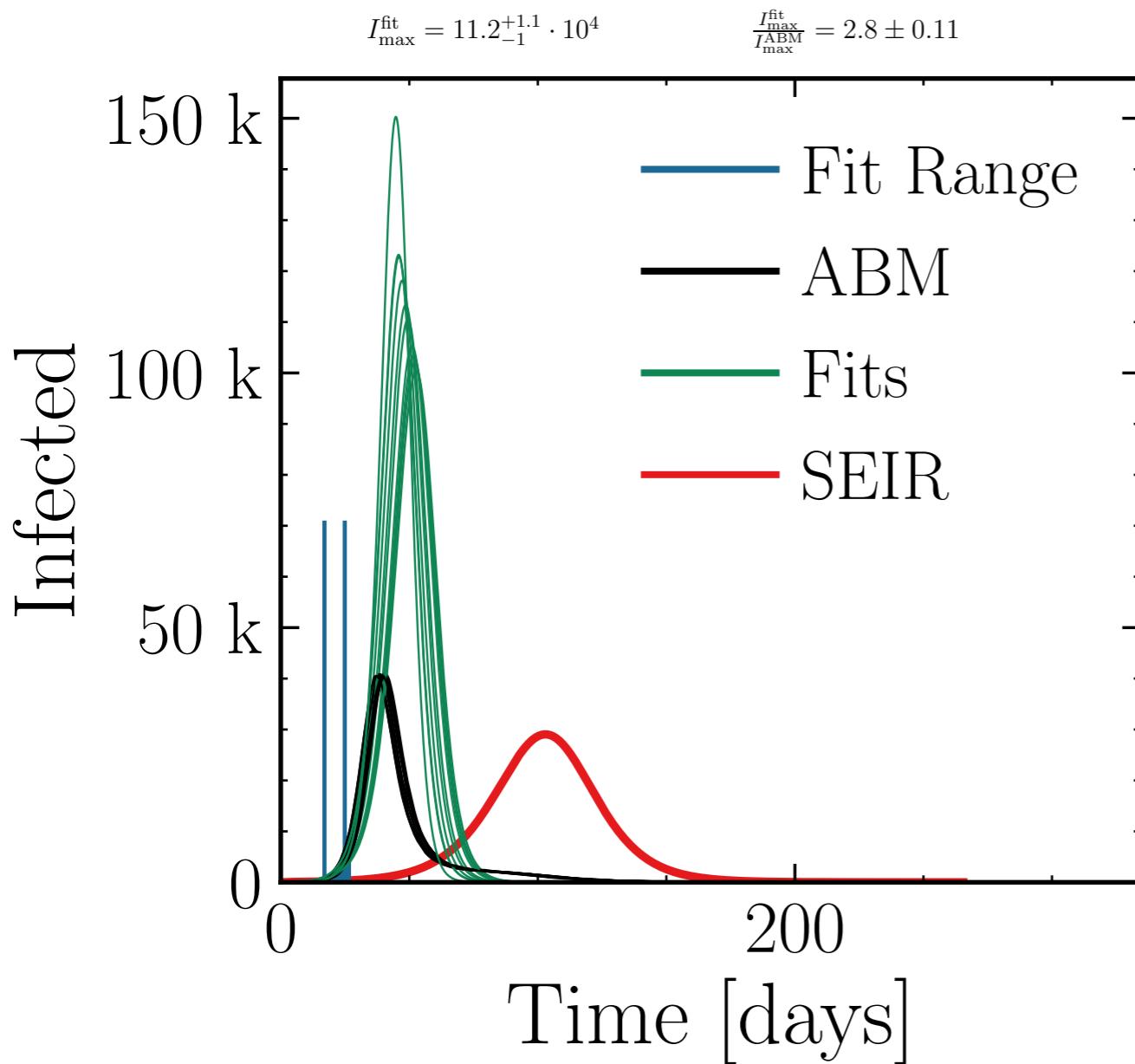
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.009$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



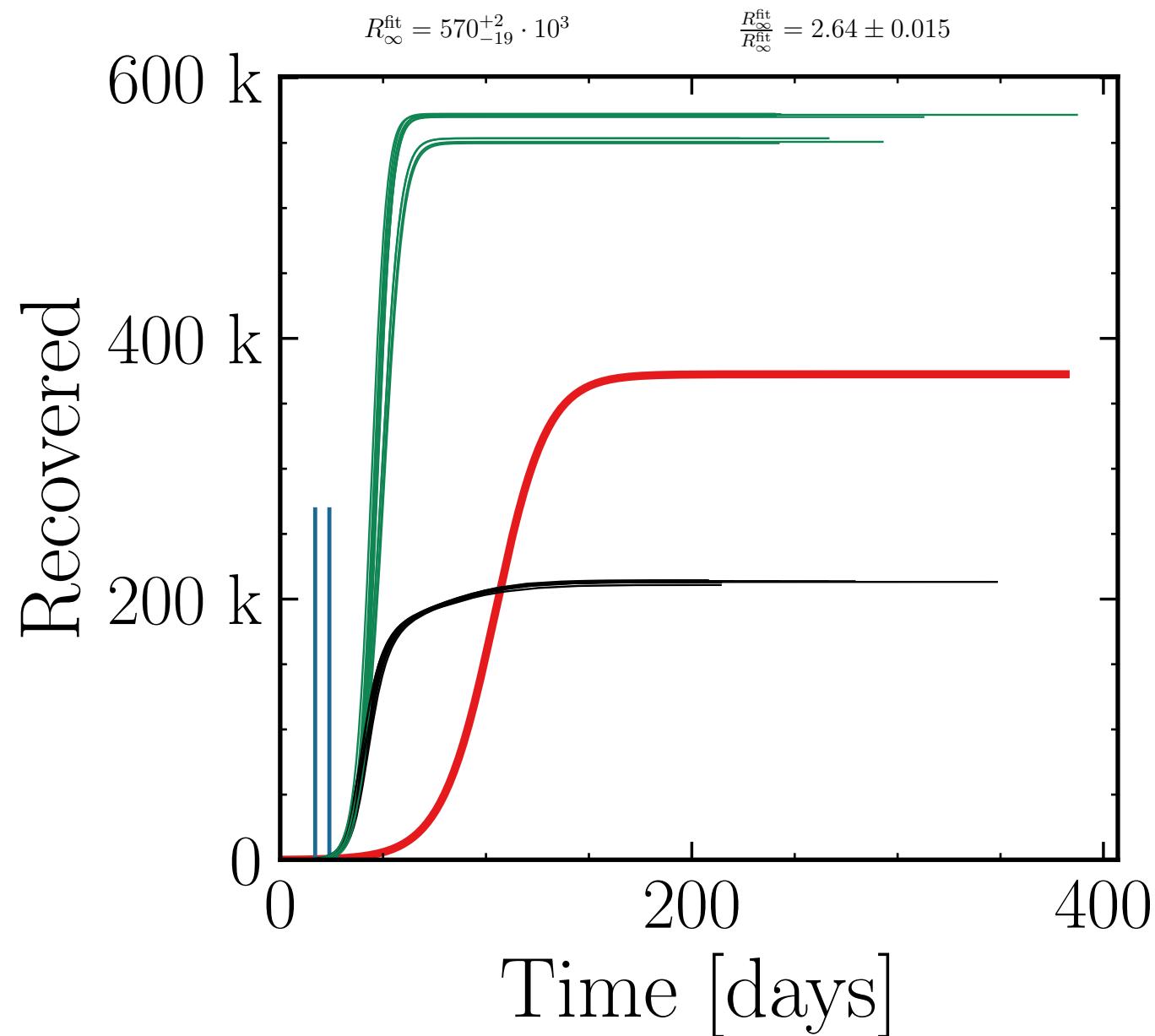
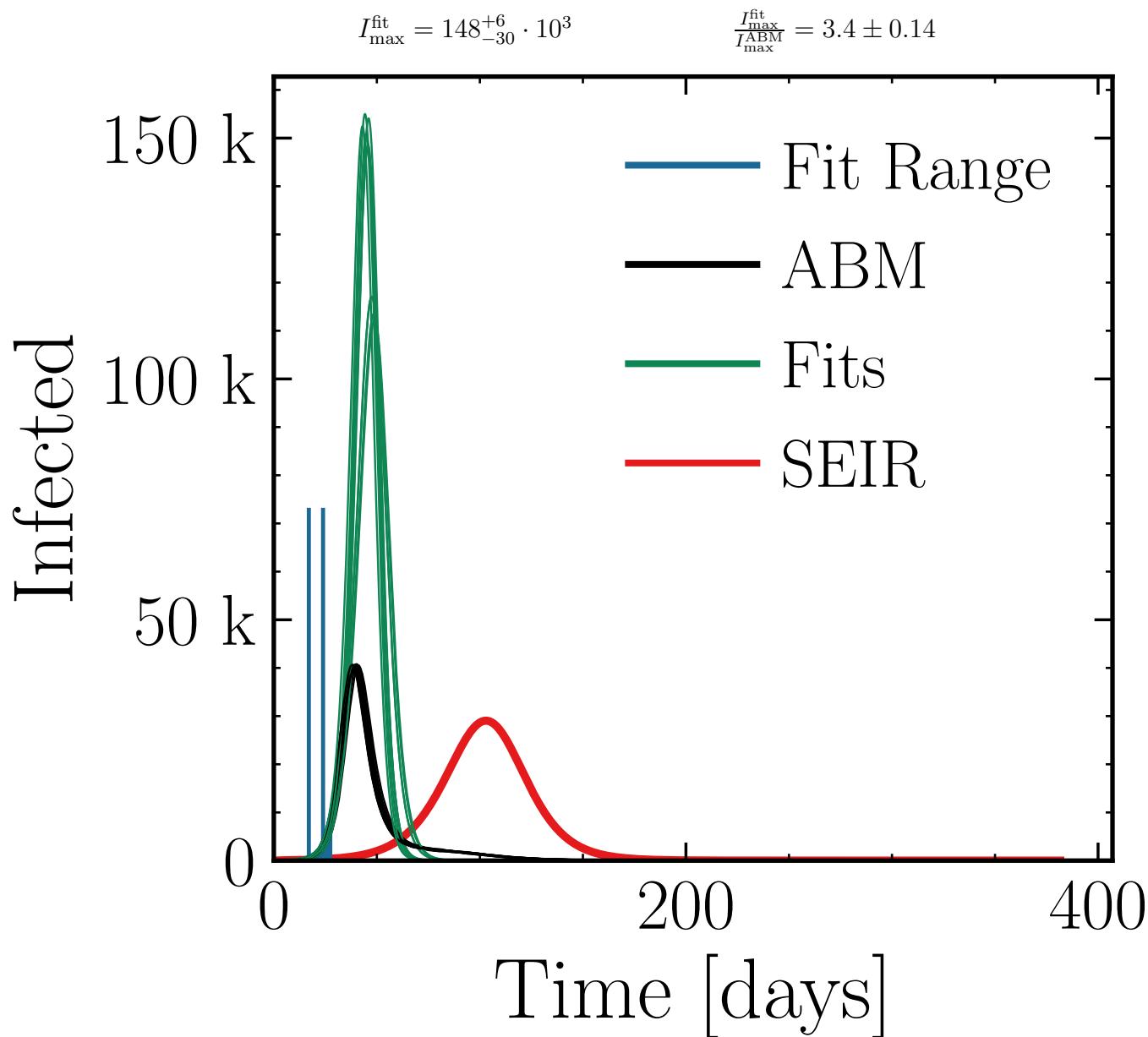
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = False,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



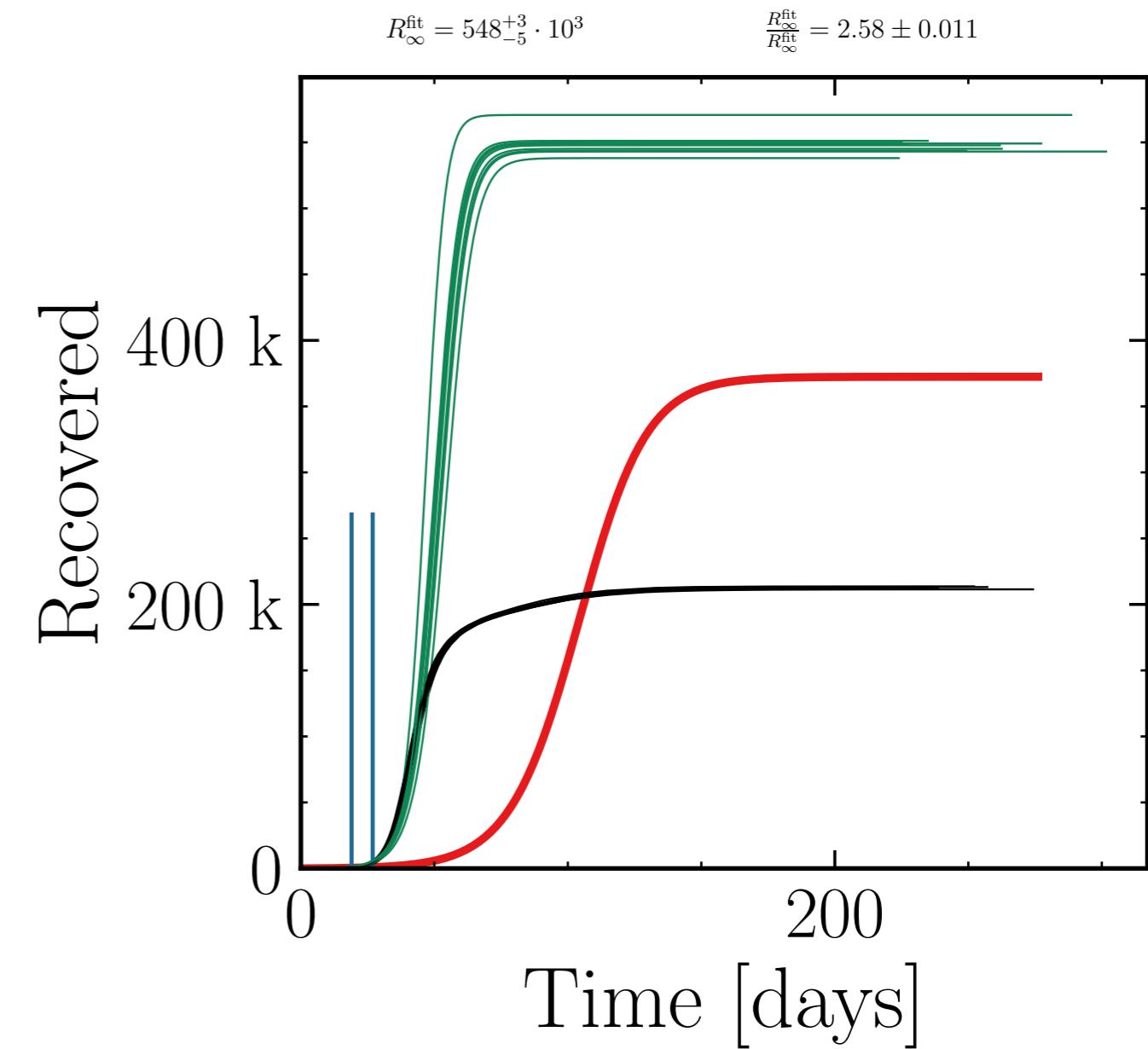
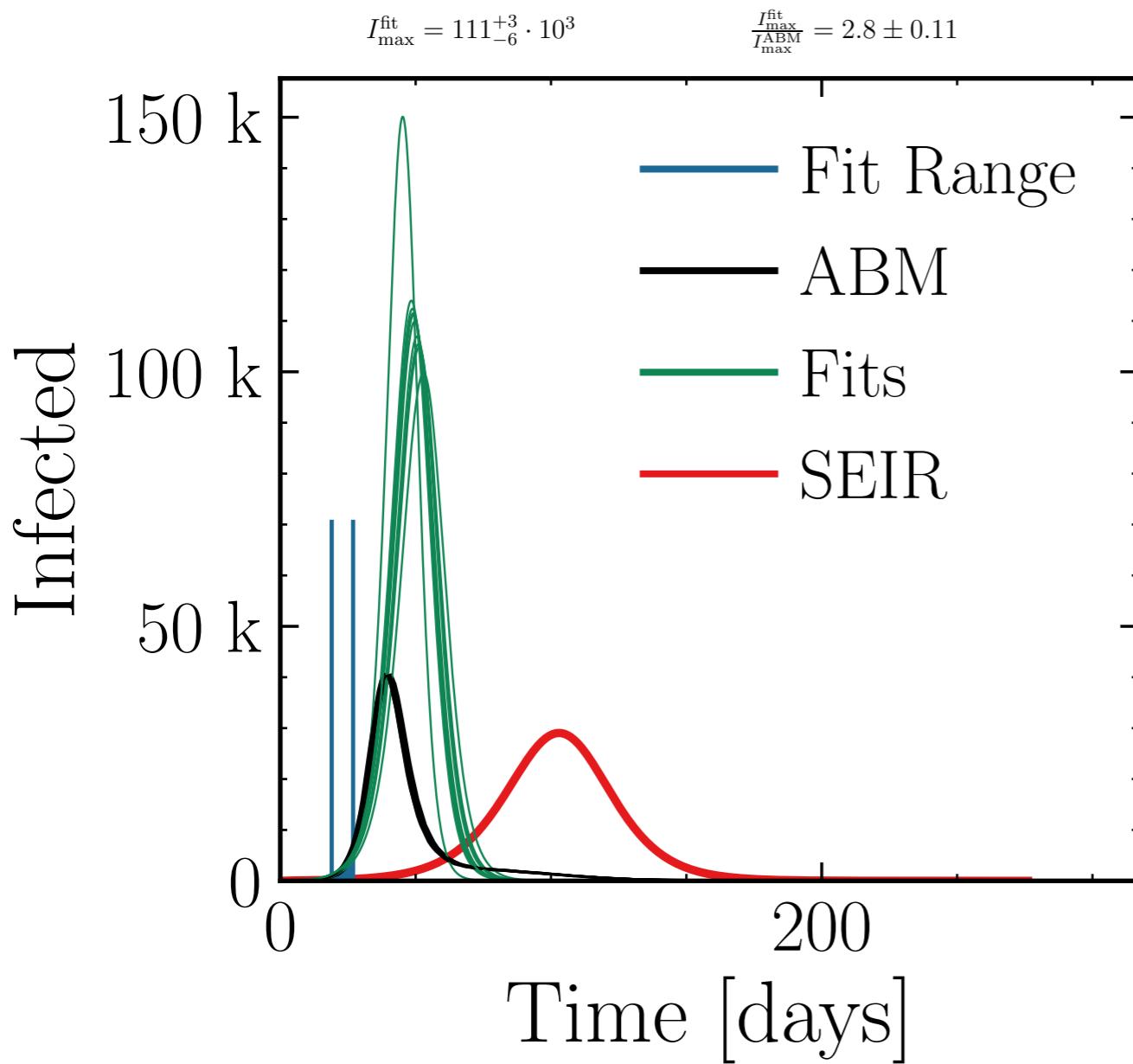
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



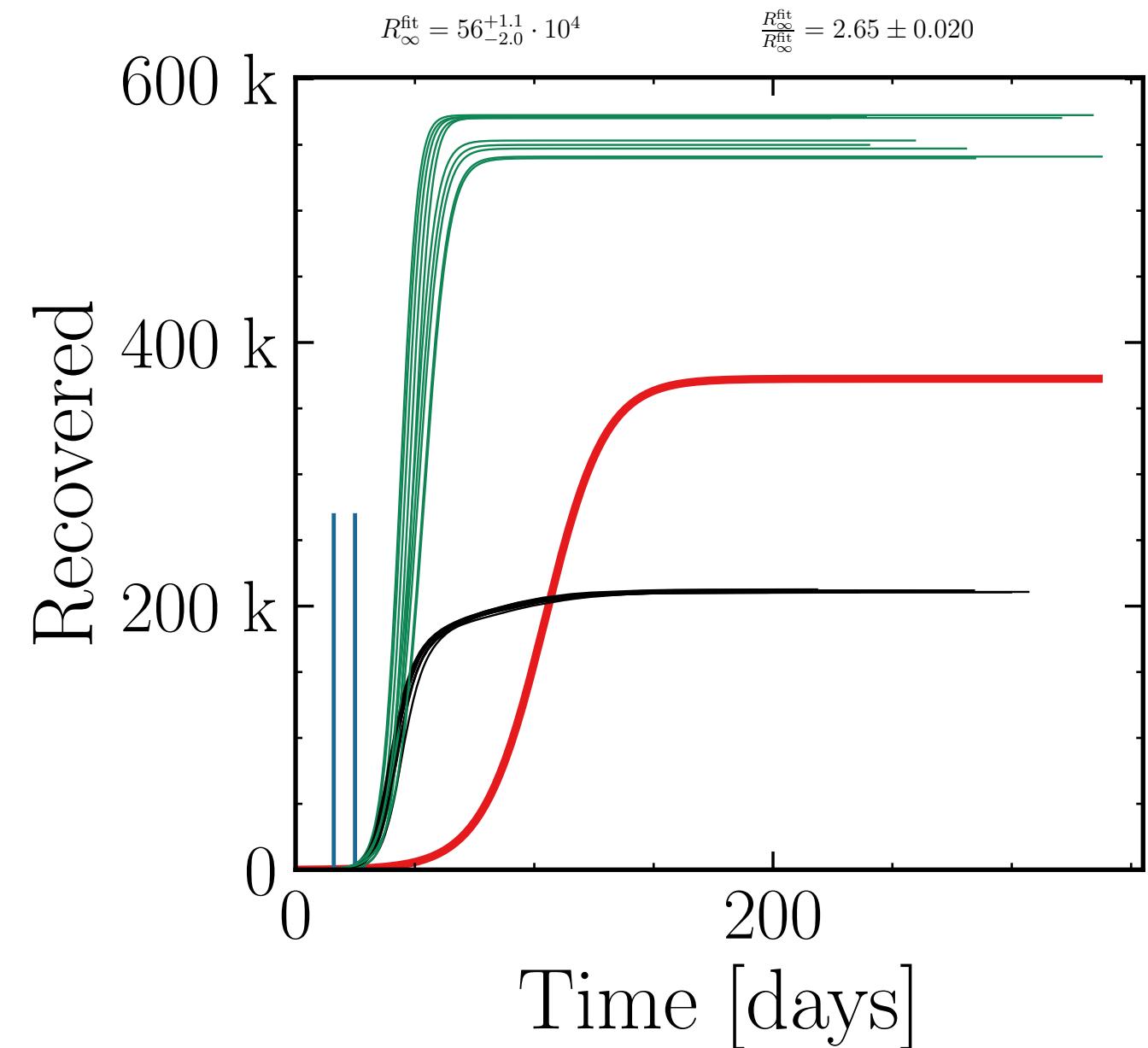
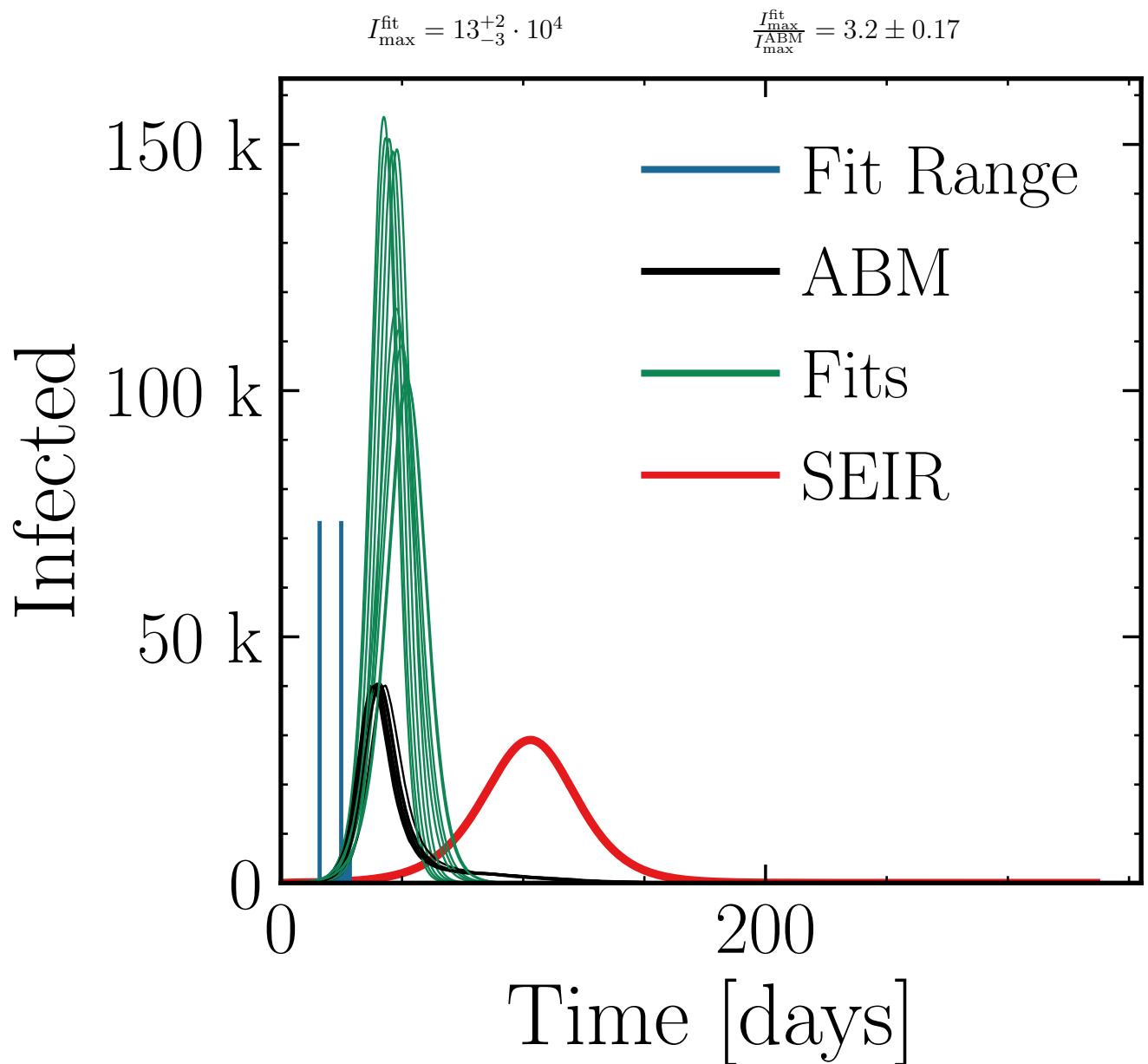
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



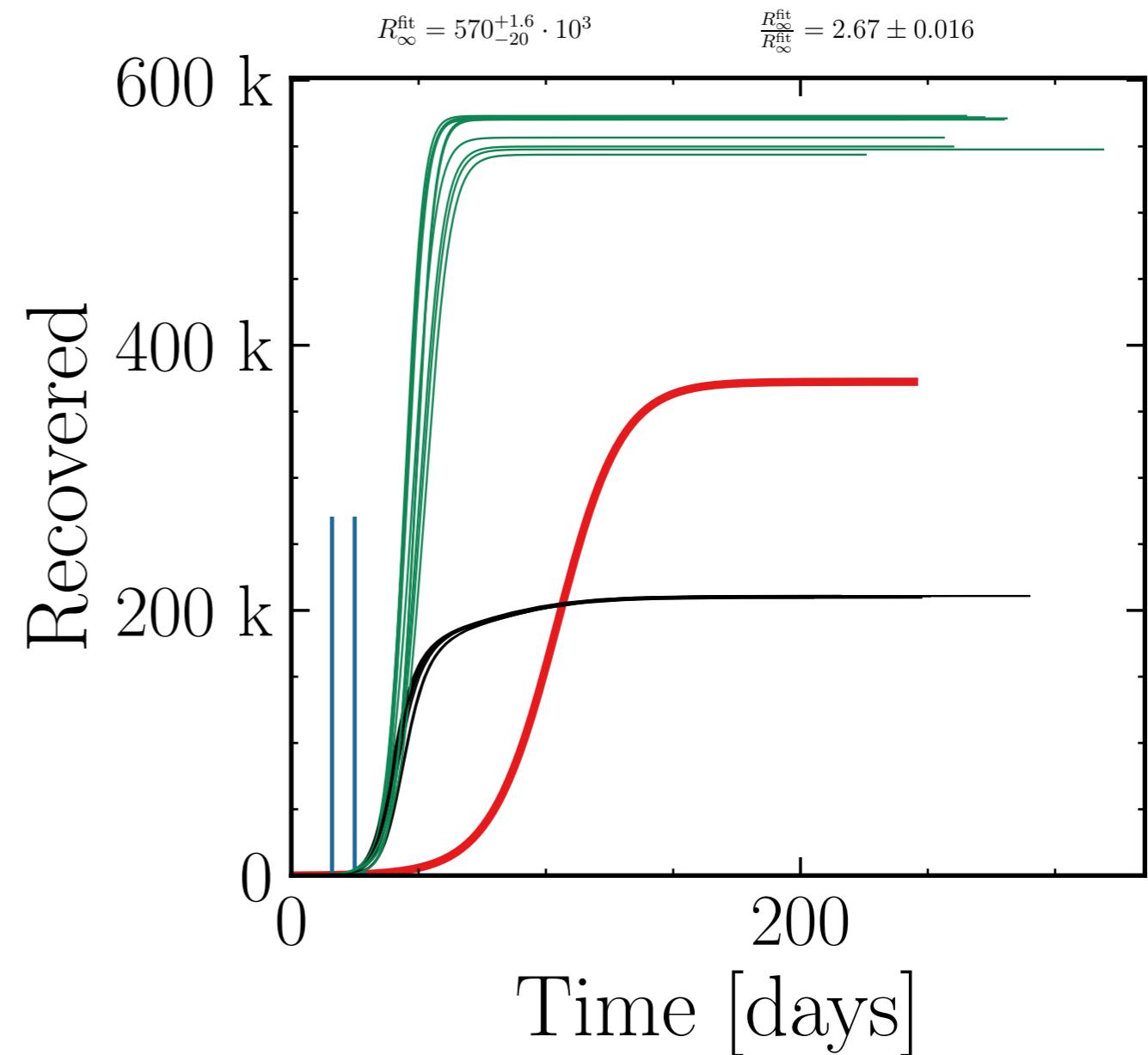
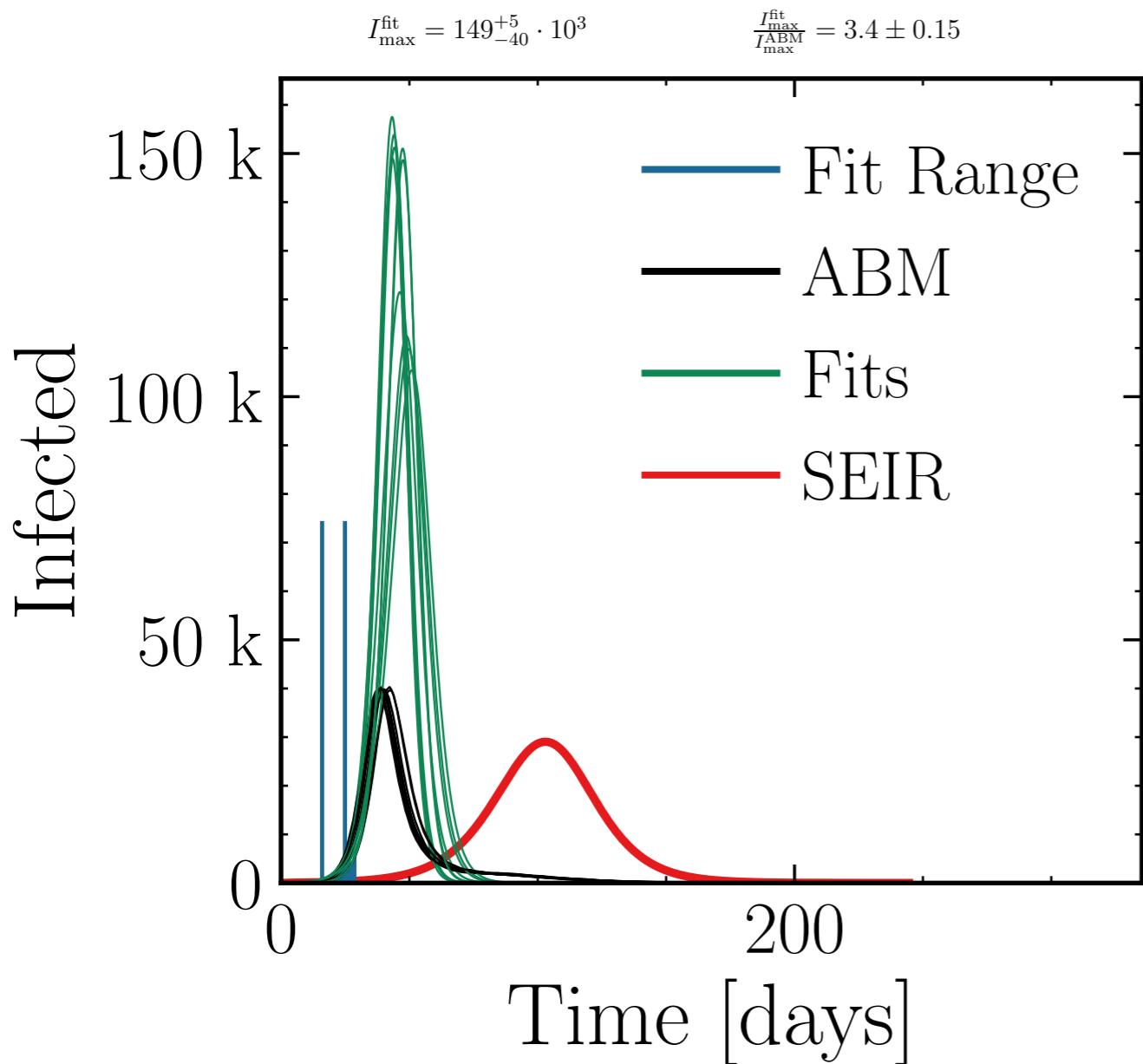
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



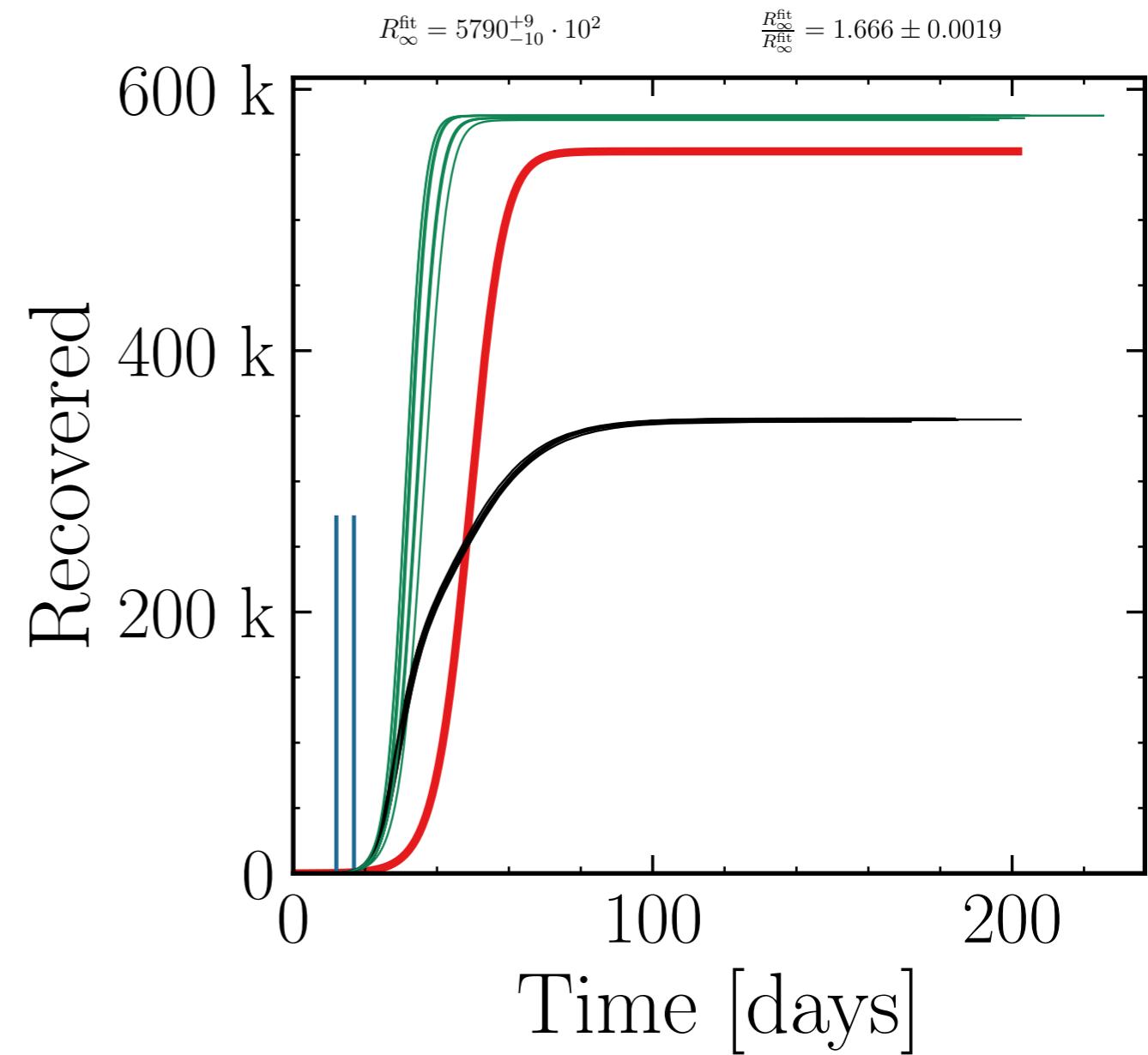
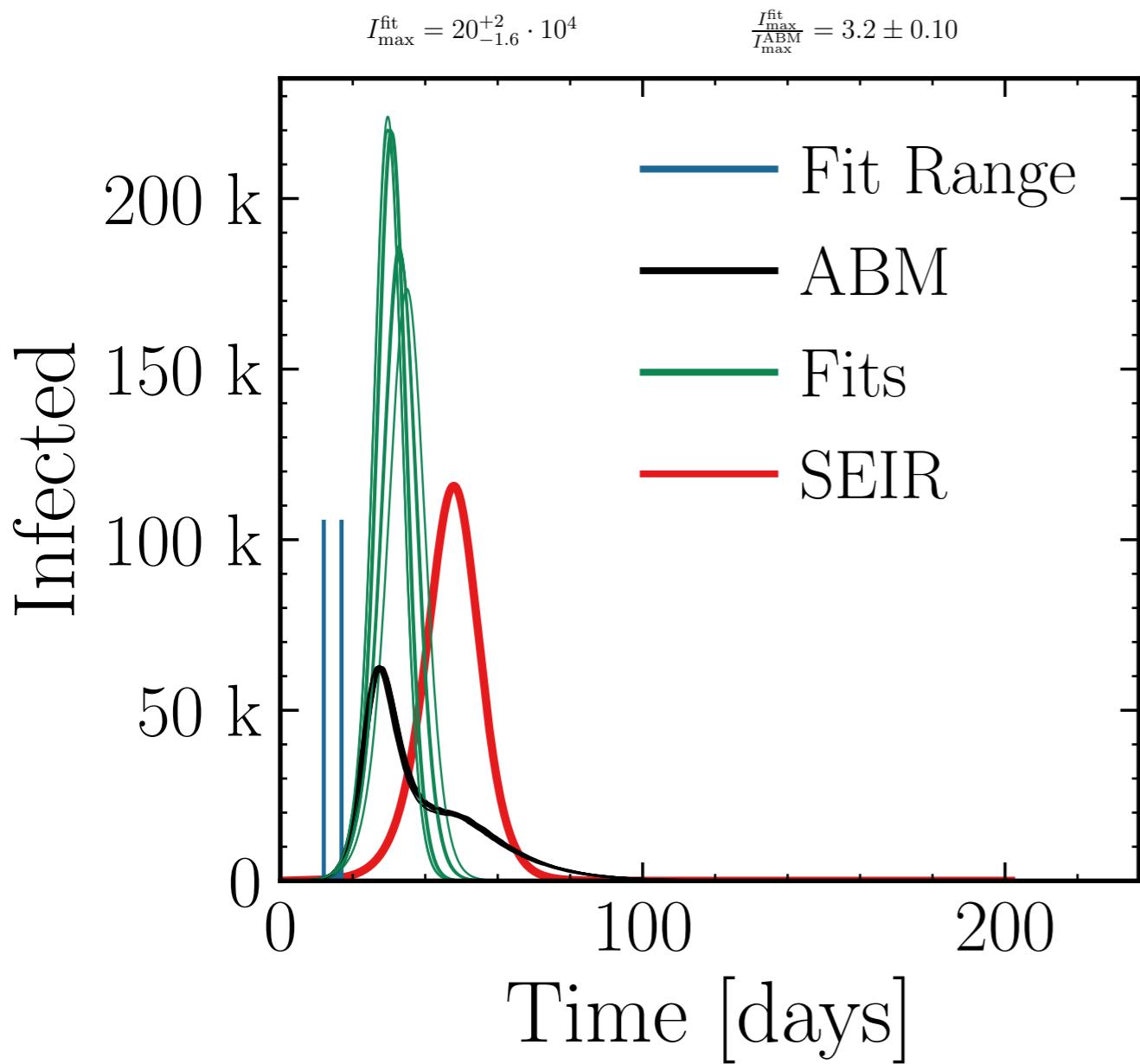
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
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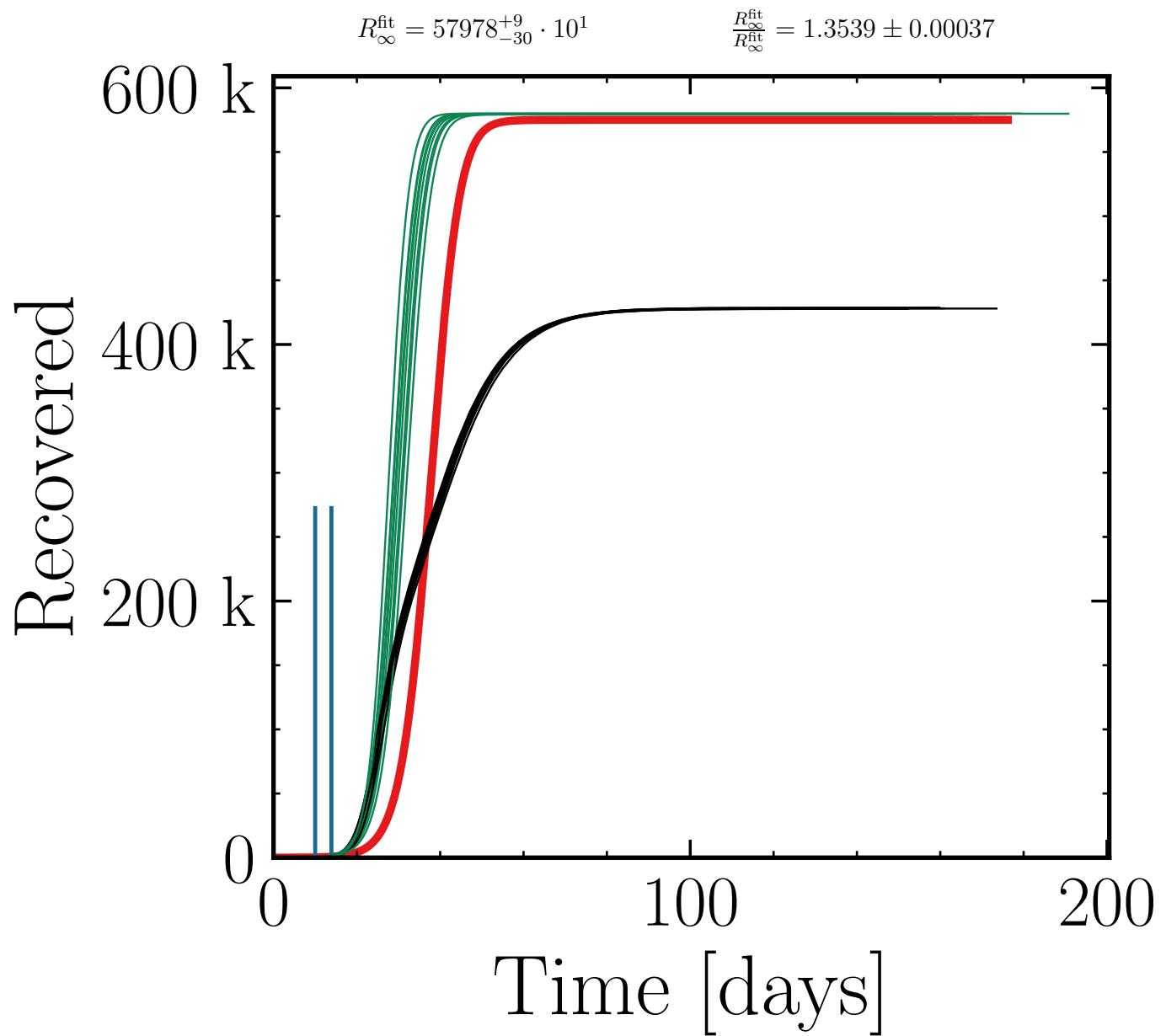
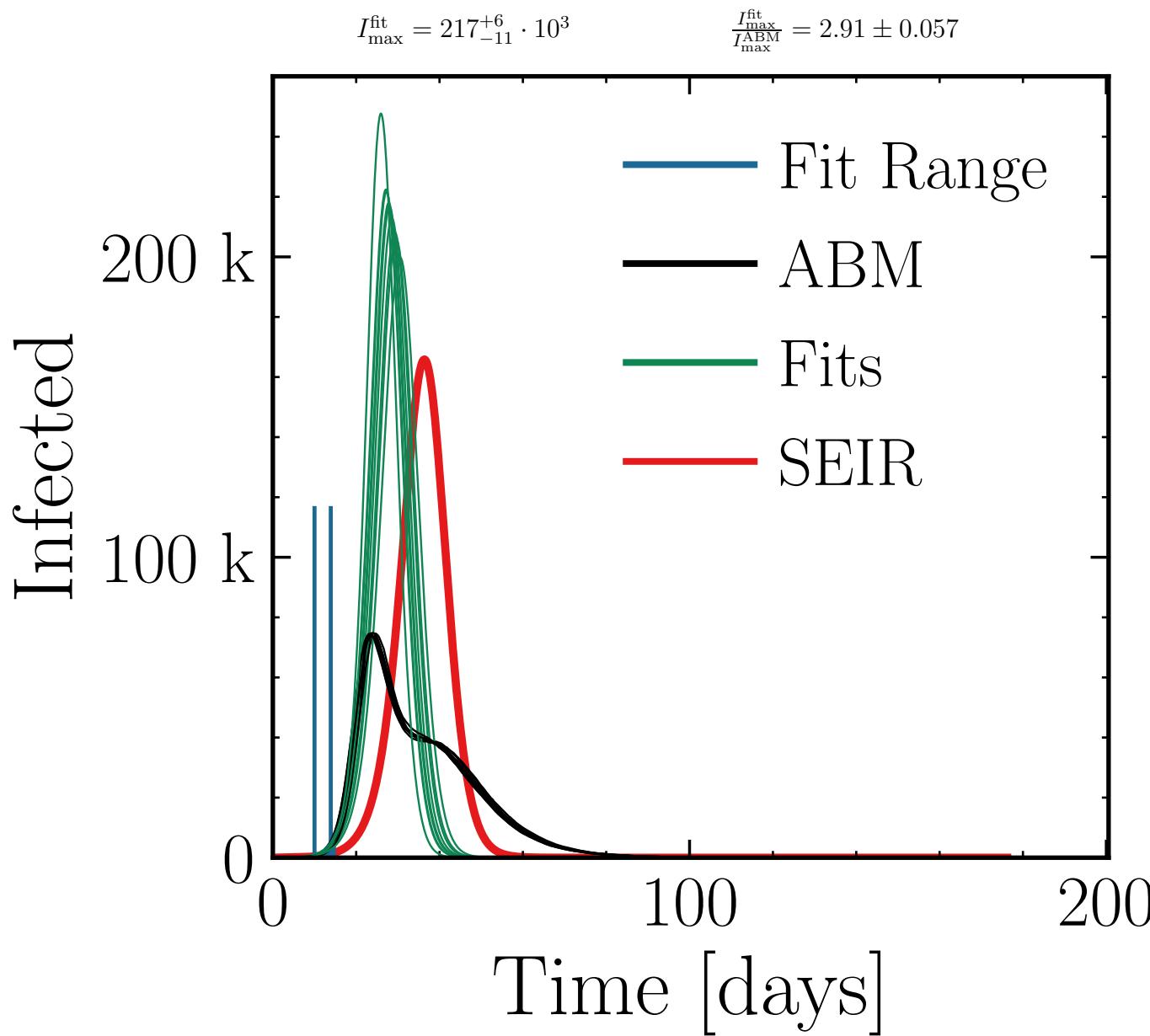
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



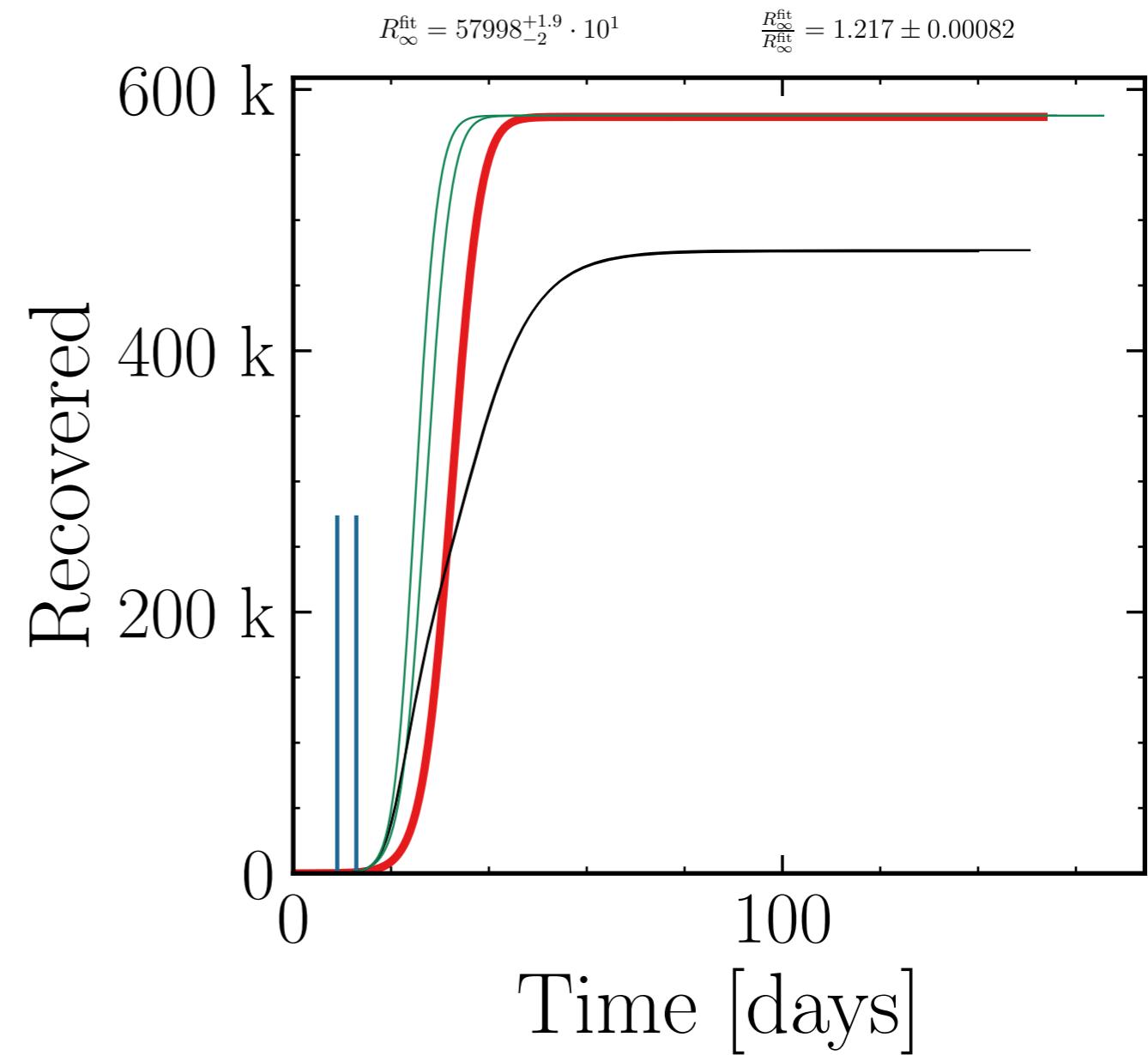
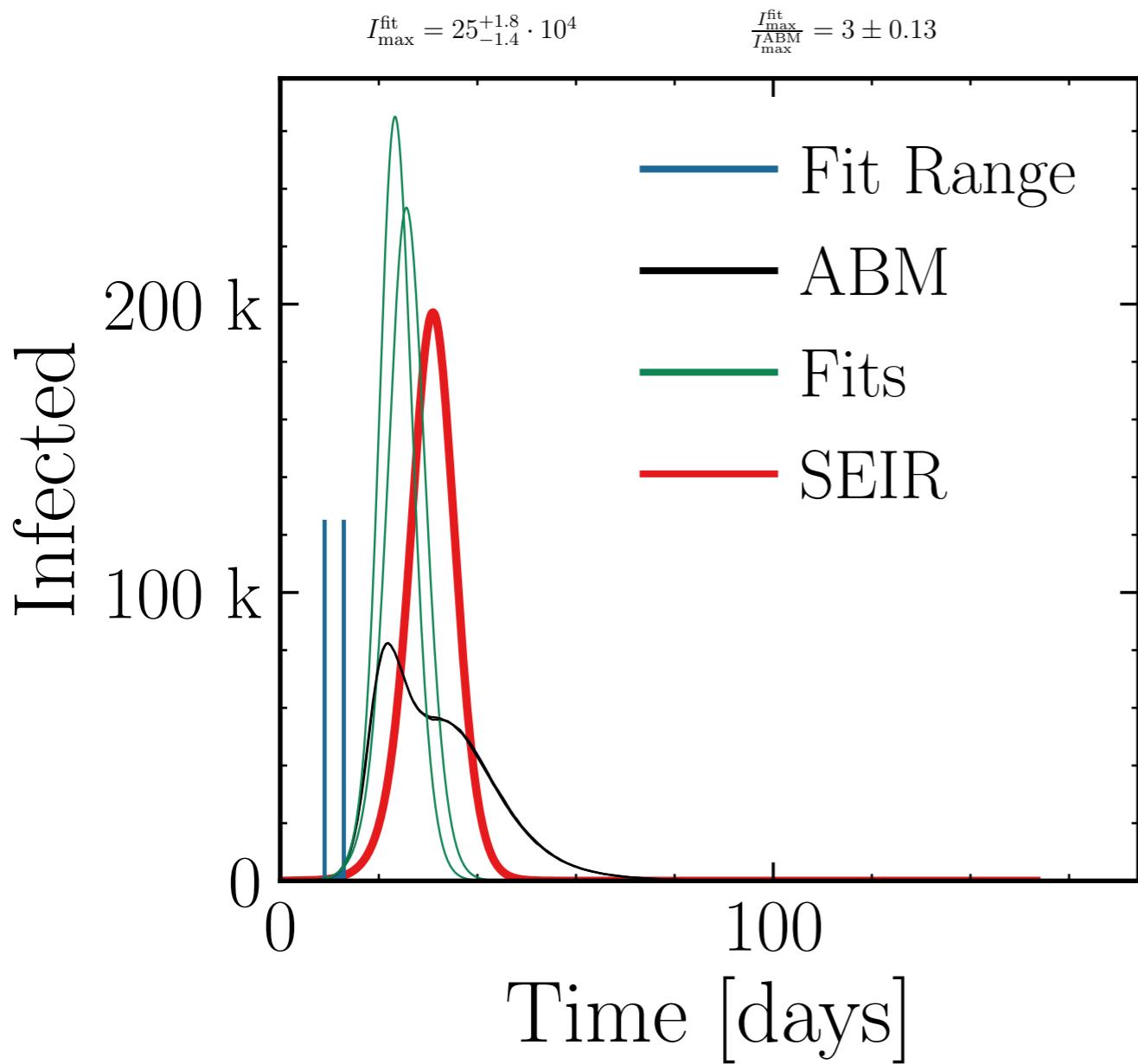
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



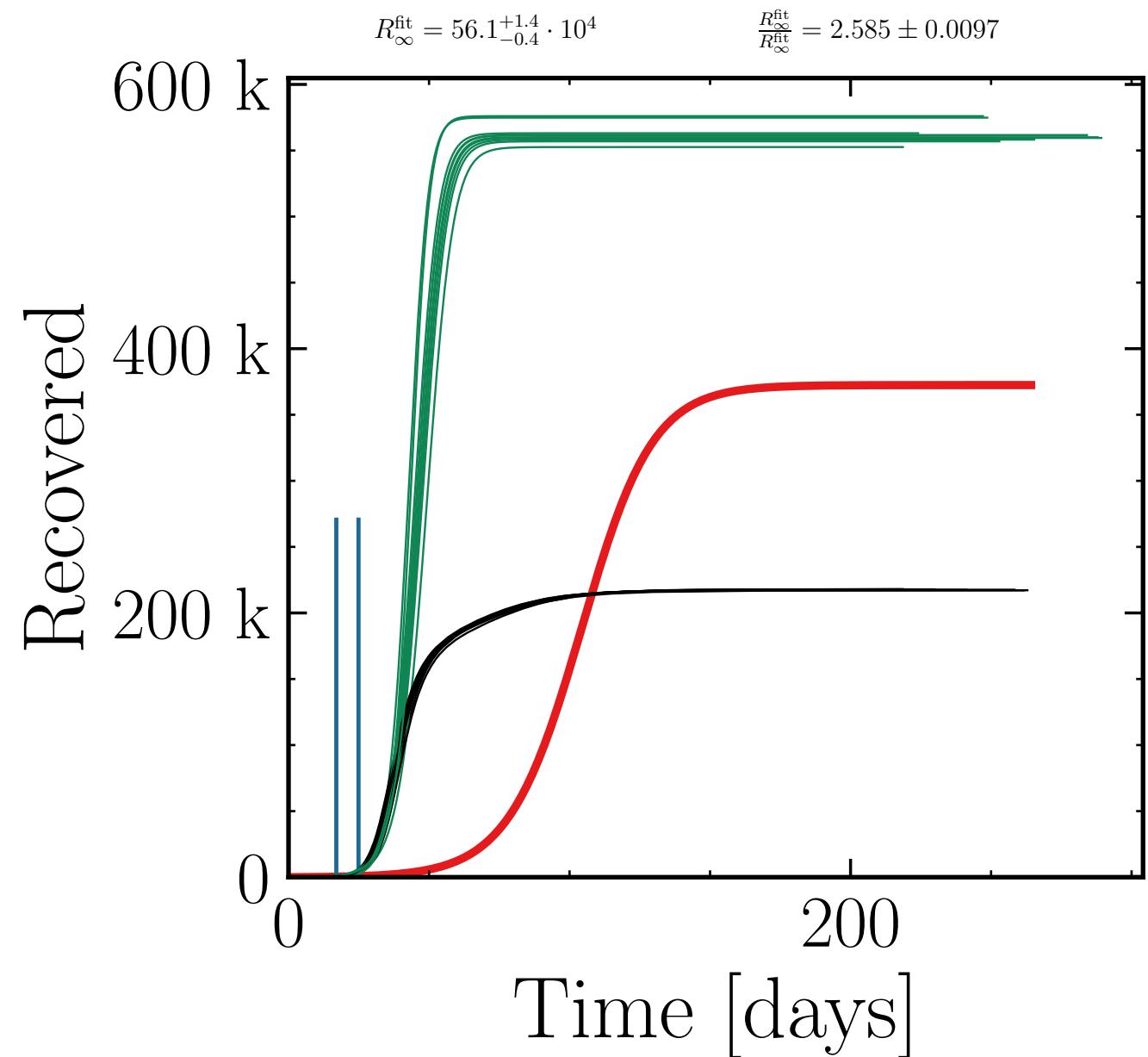
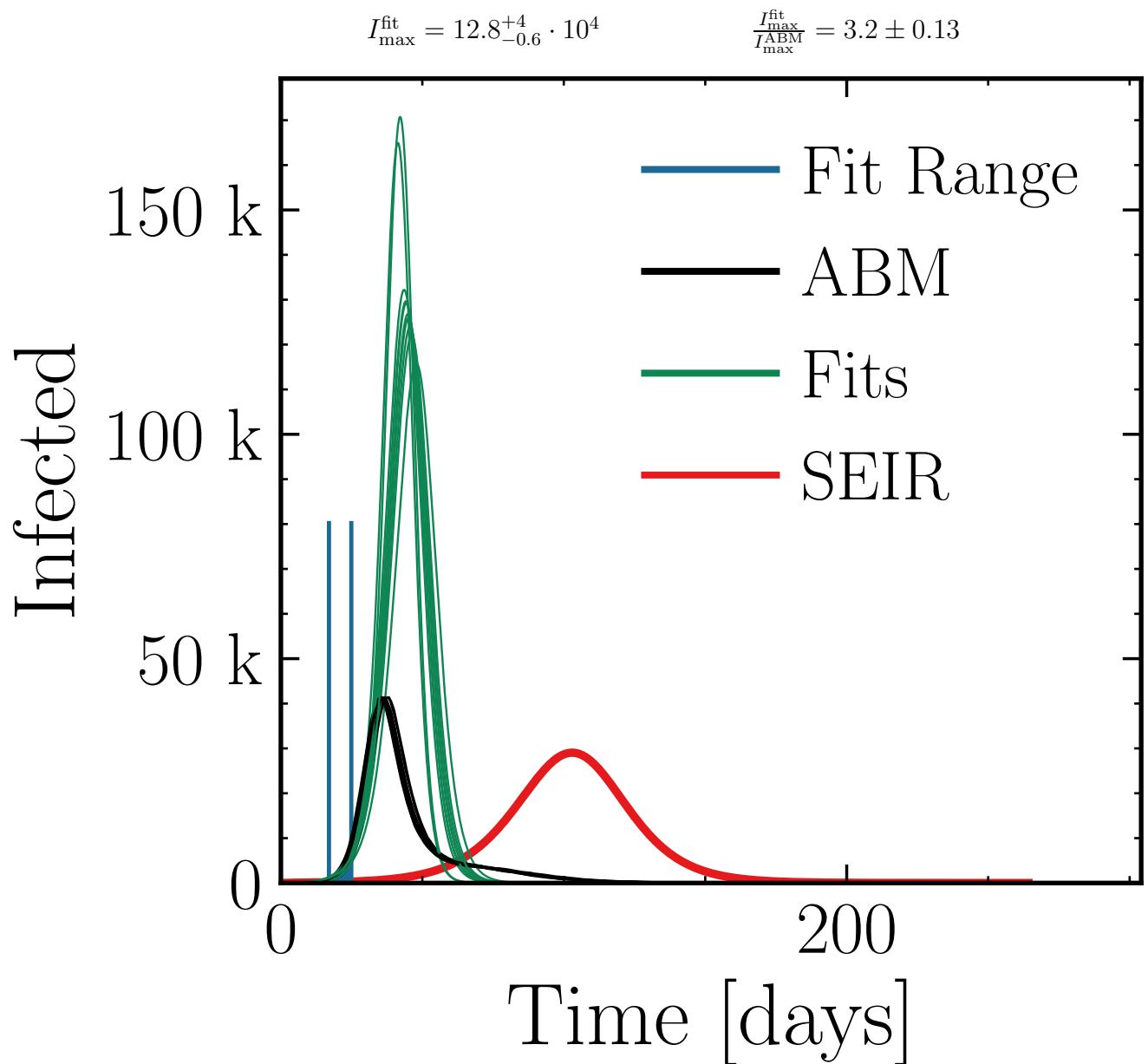
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.03$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #9



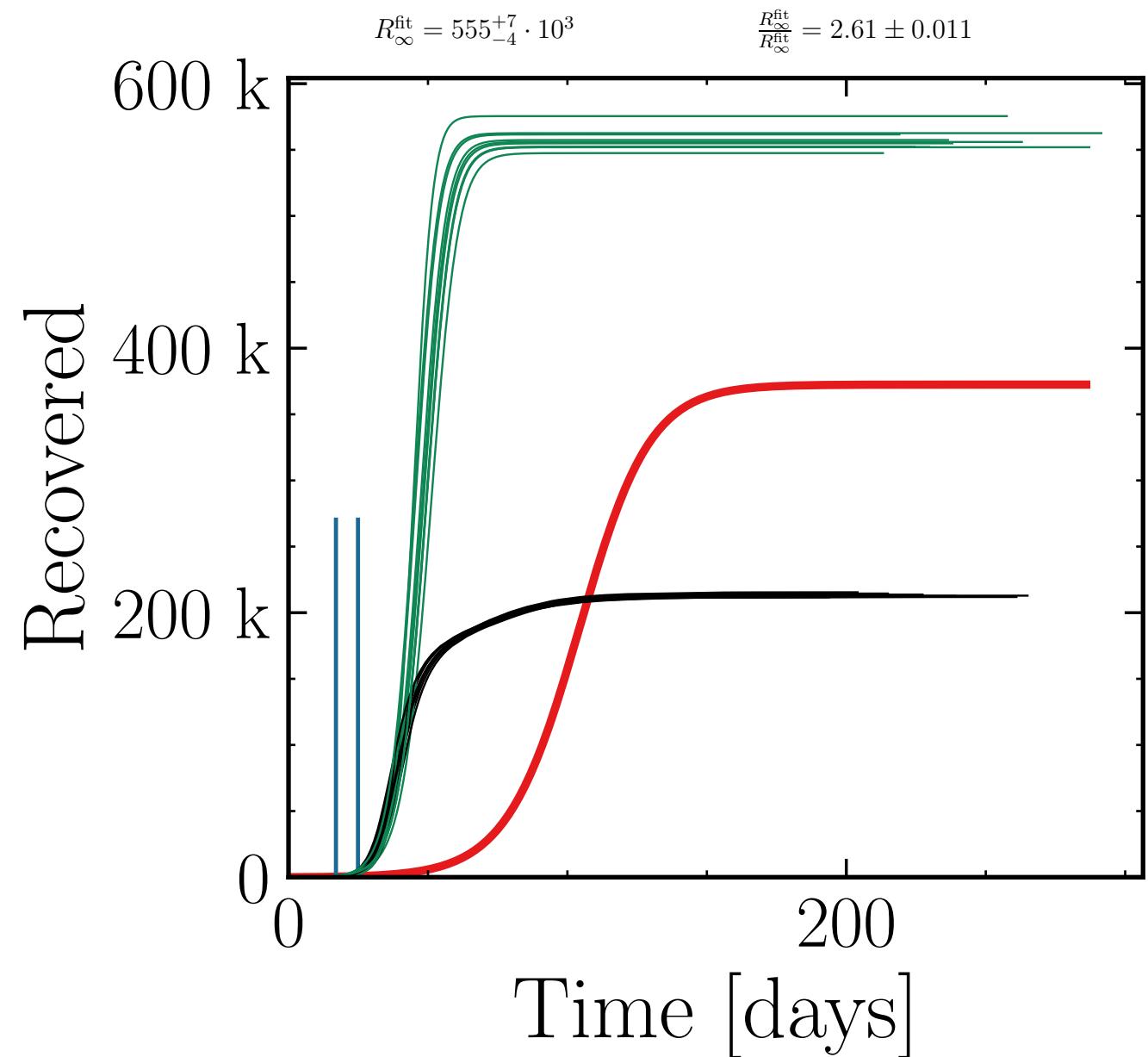
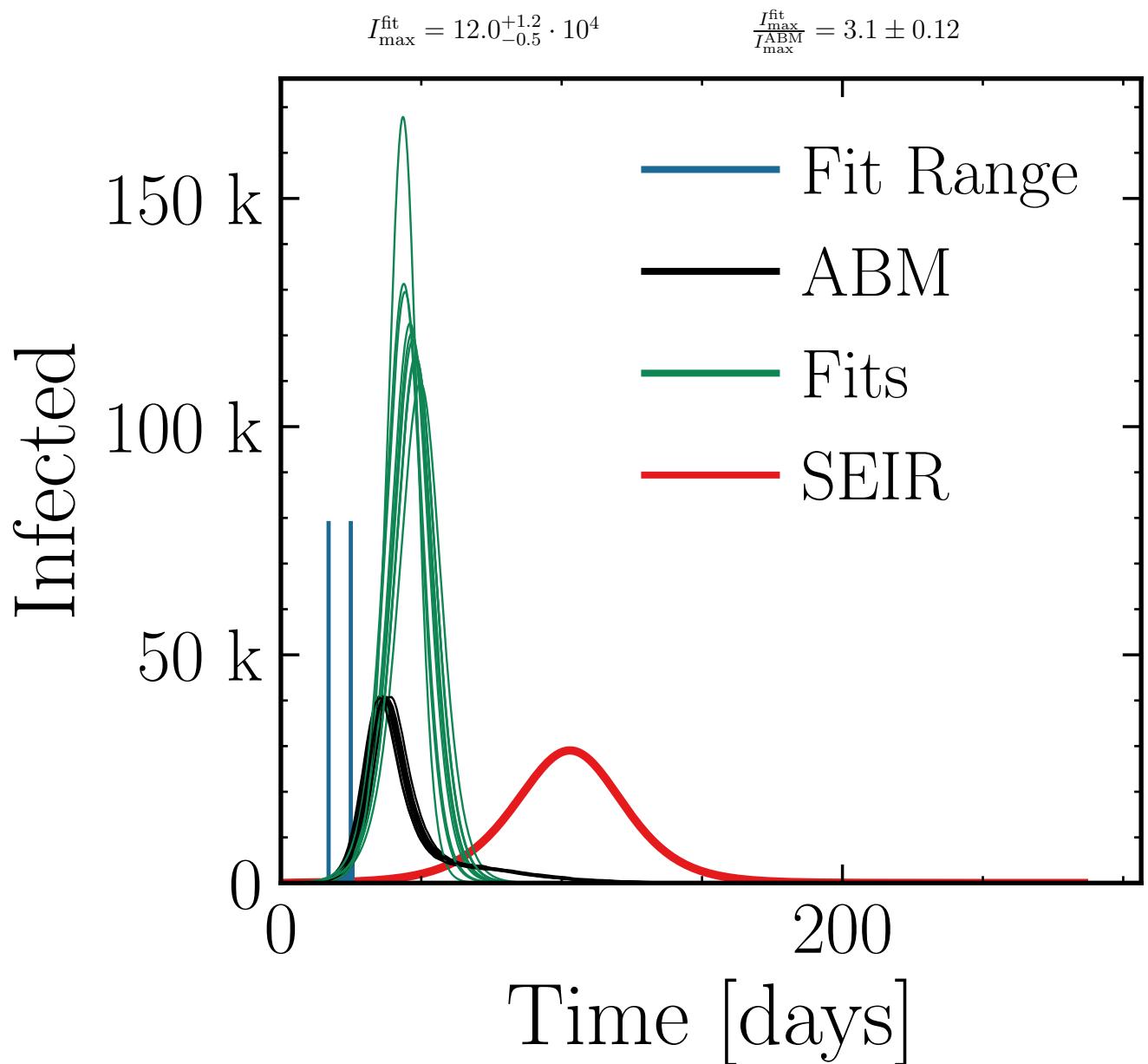
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #2



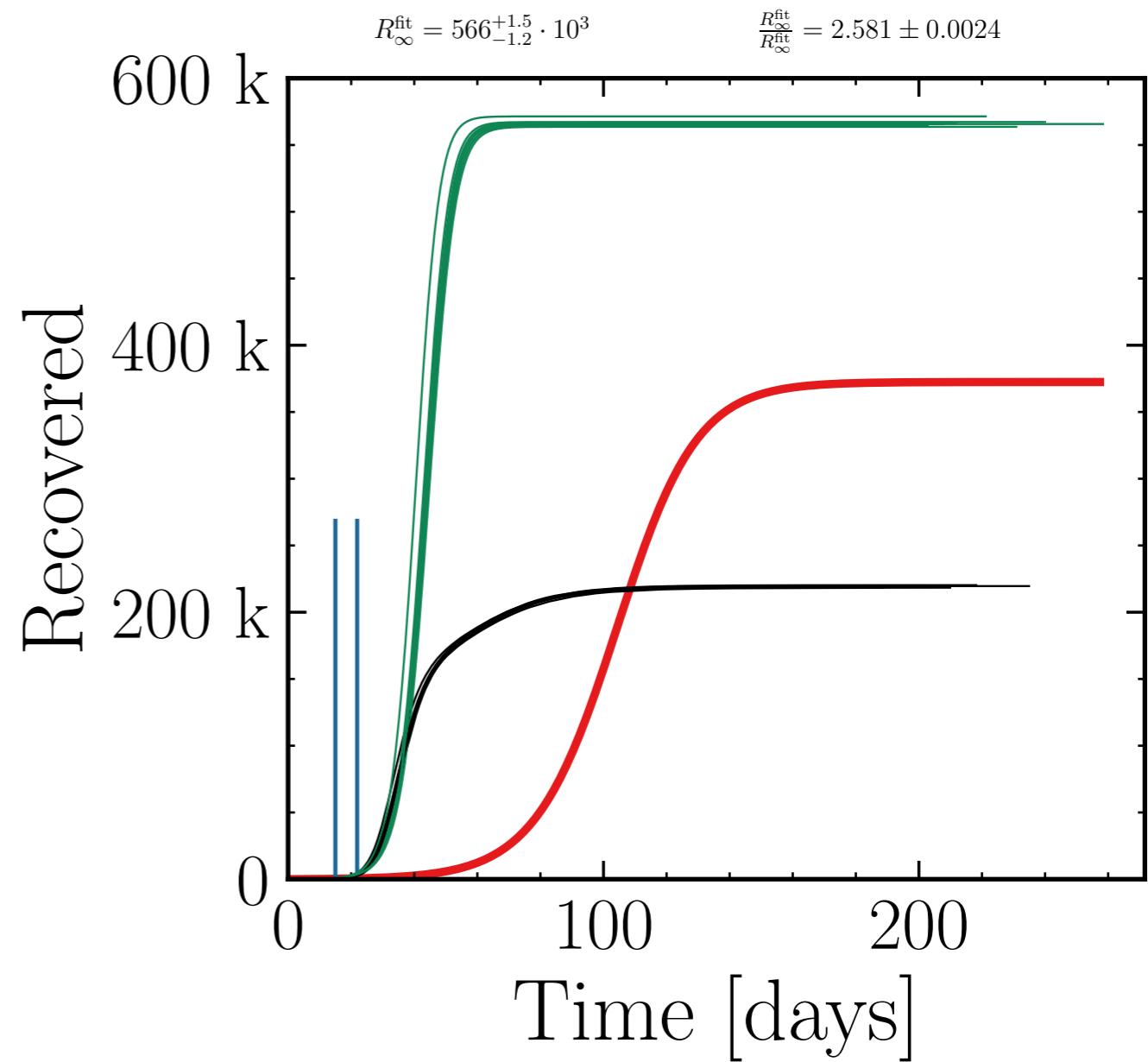
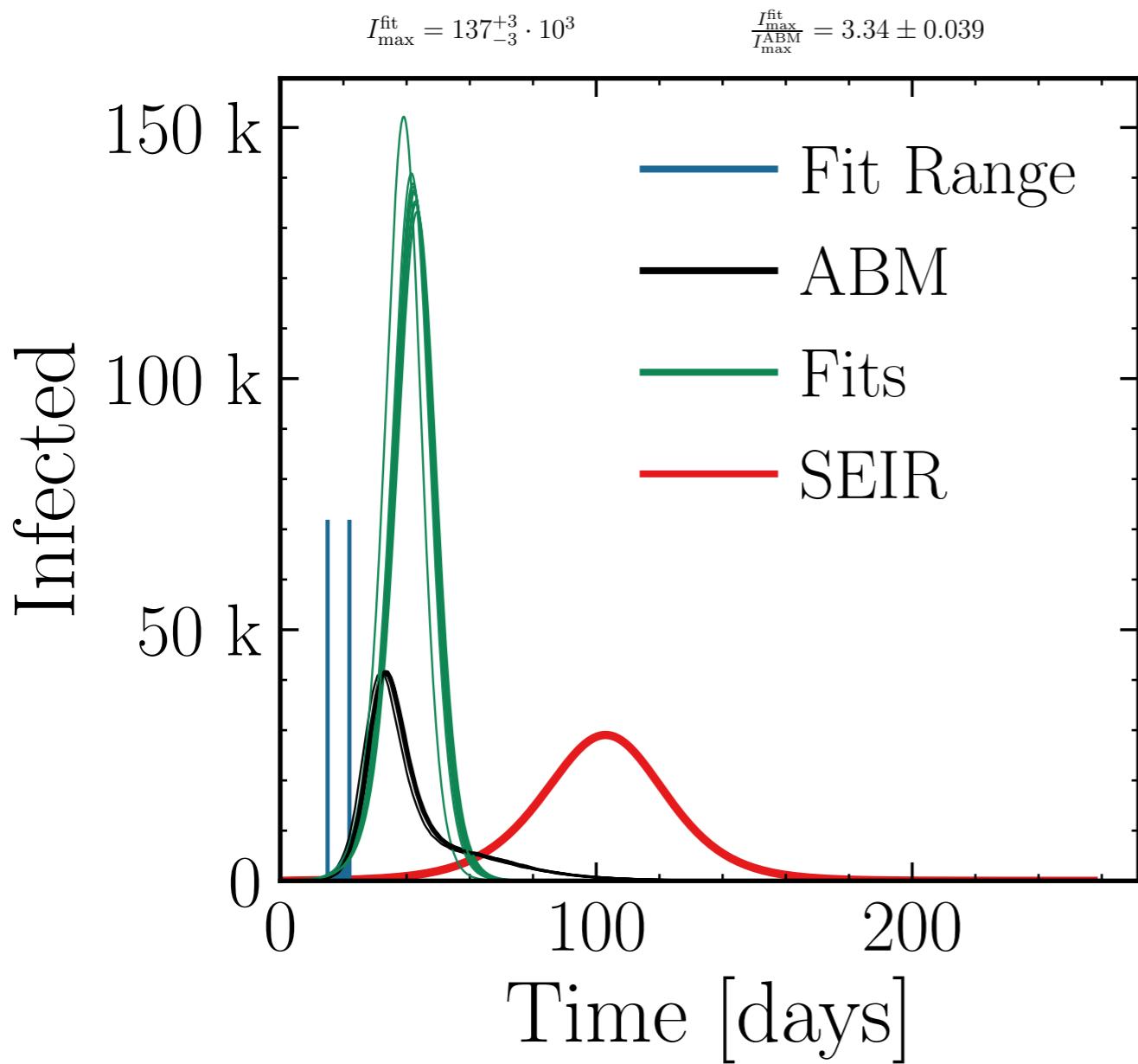
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



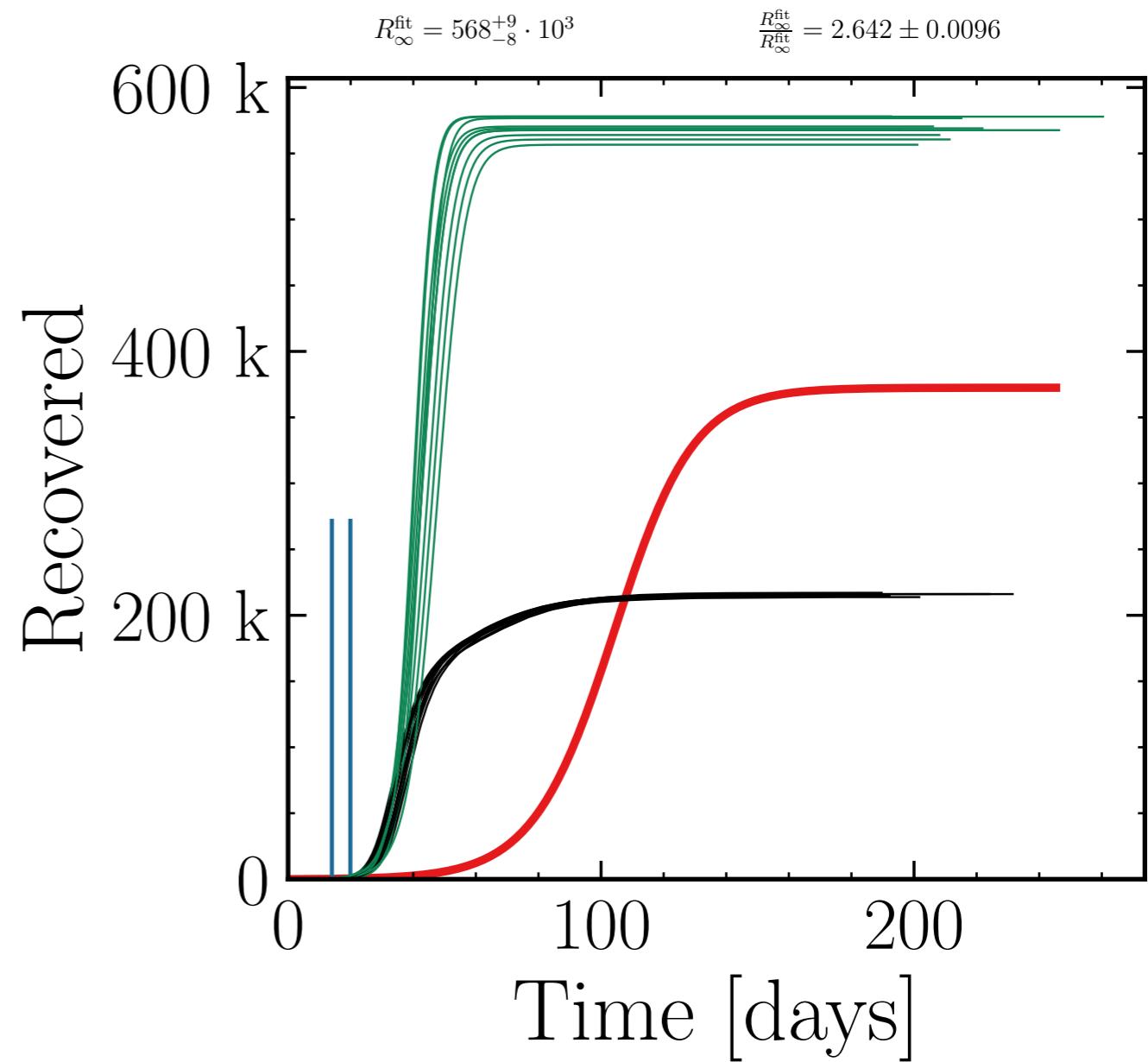
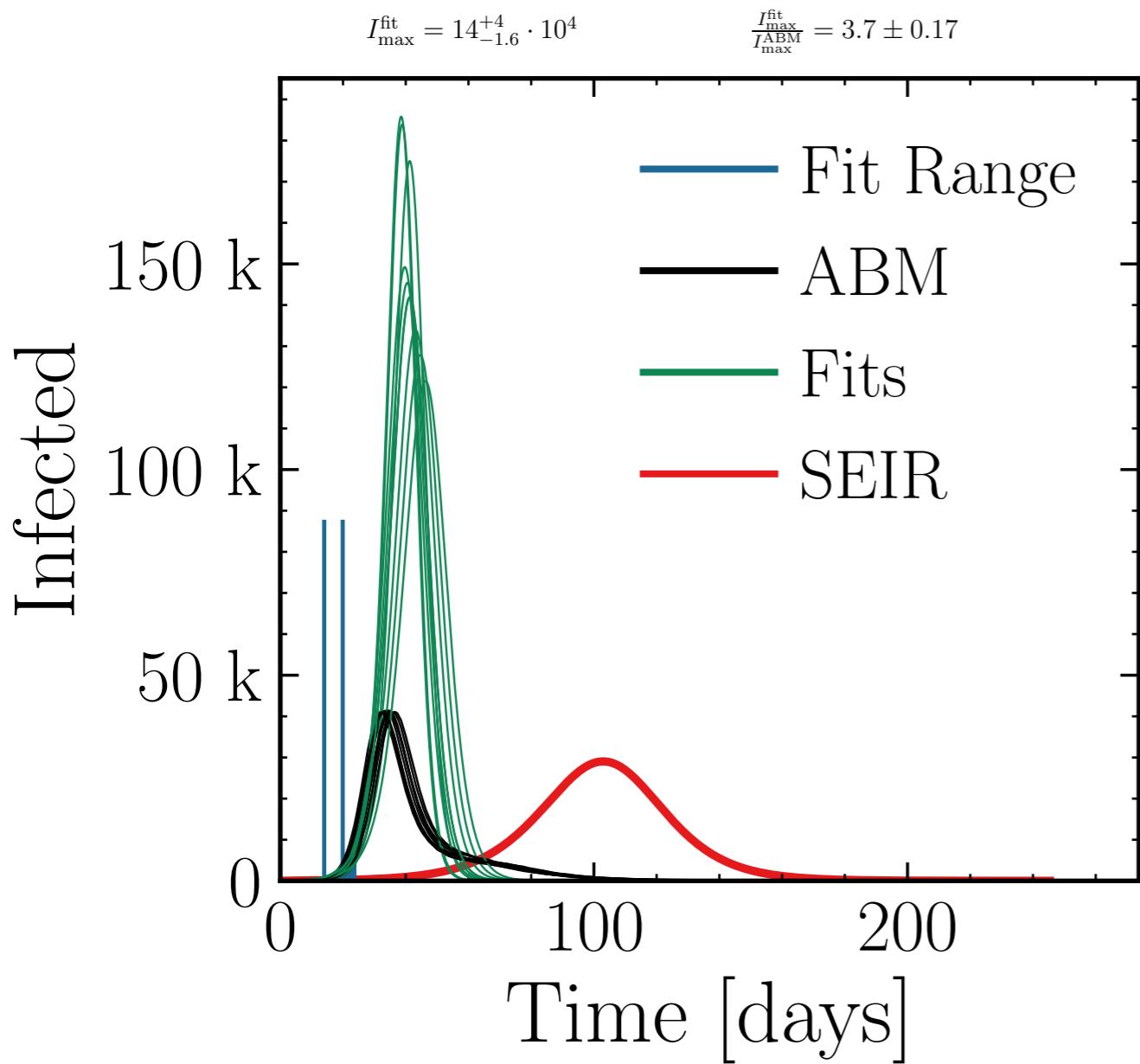
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



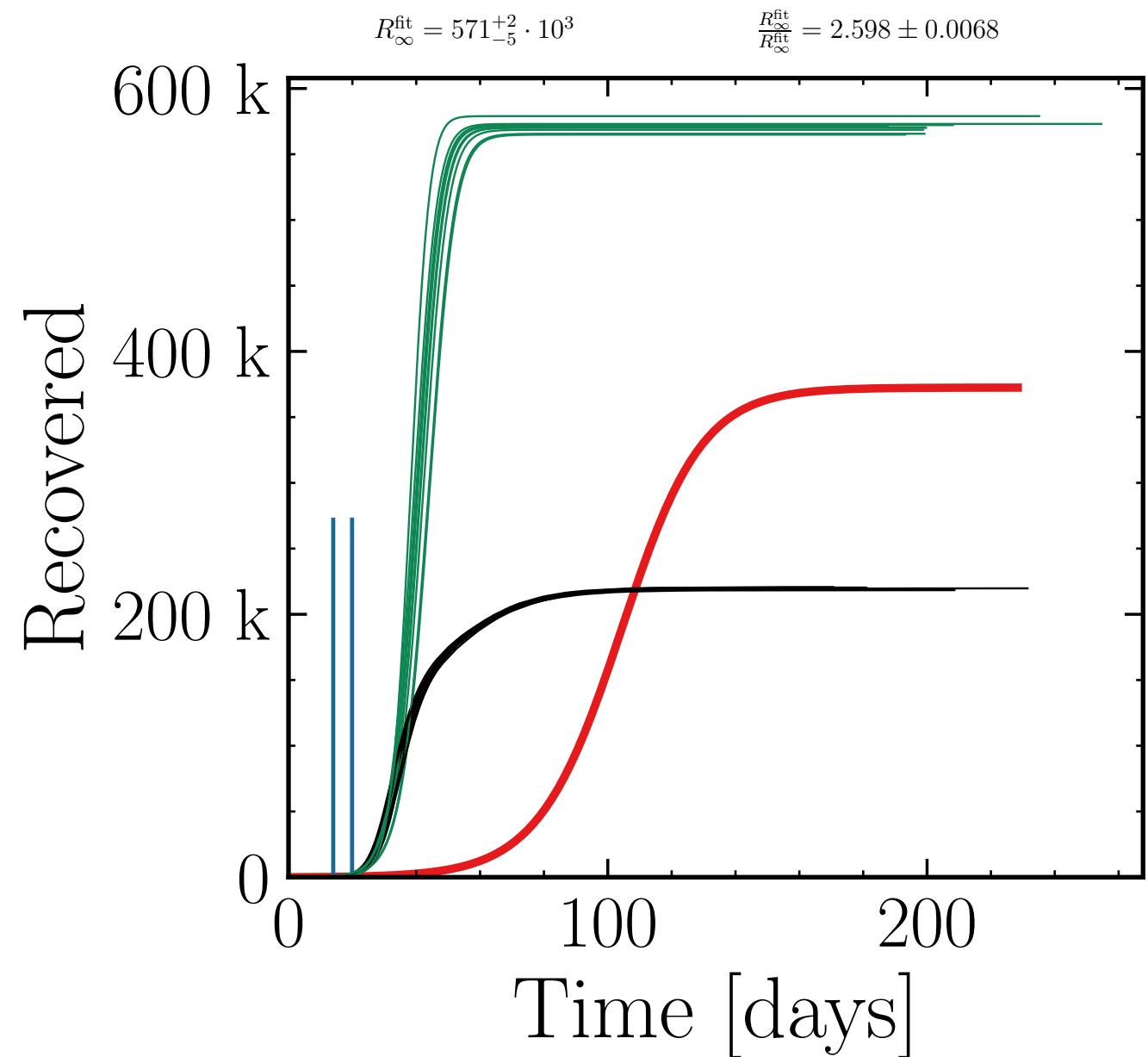
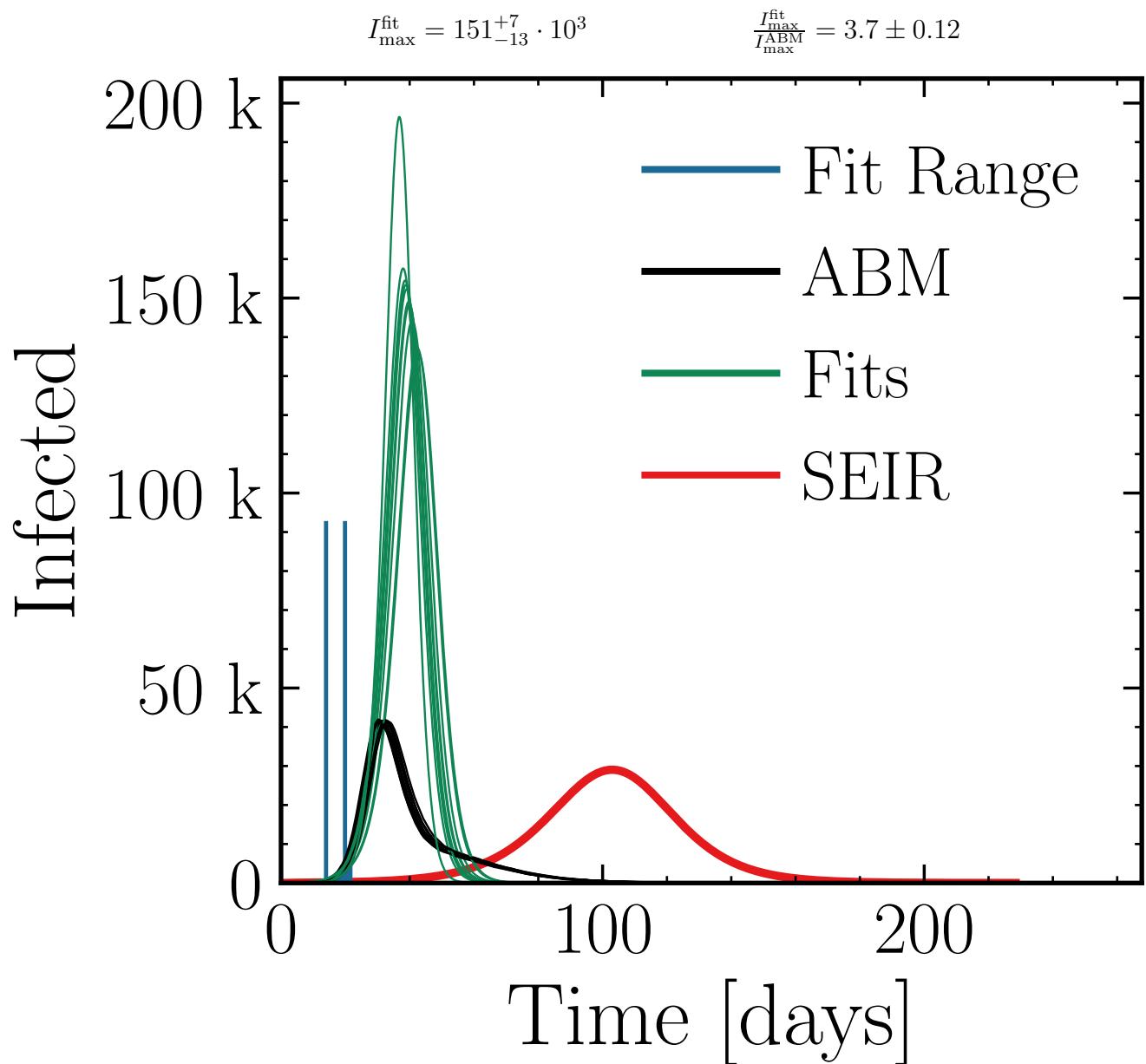
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



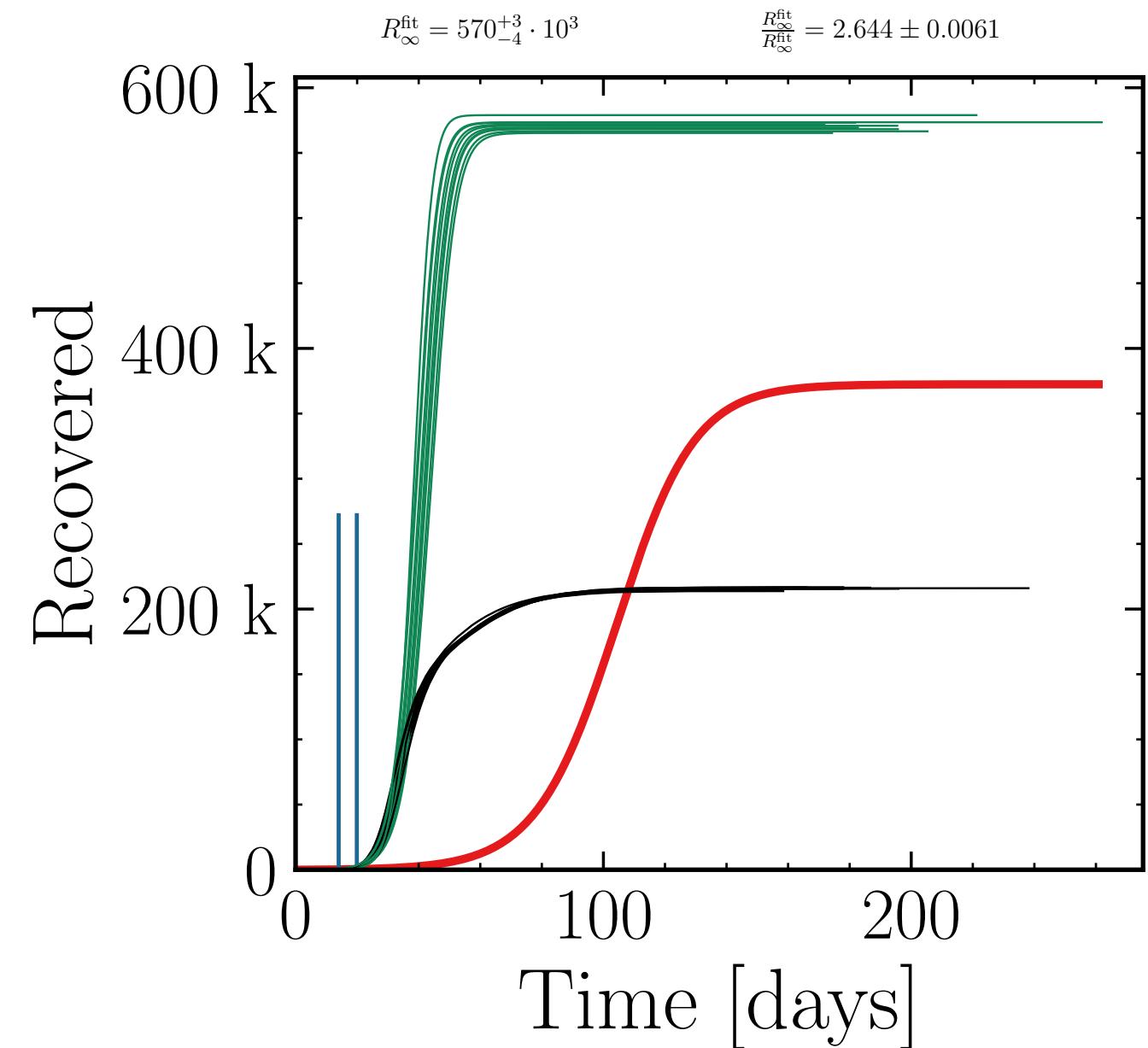
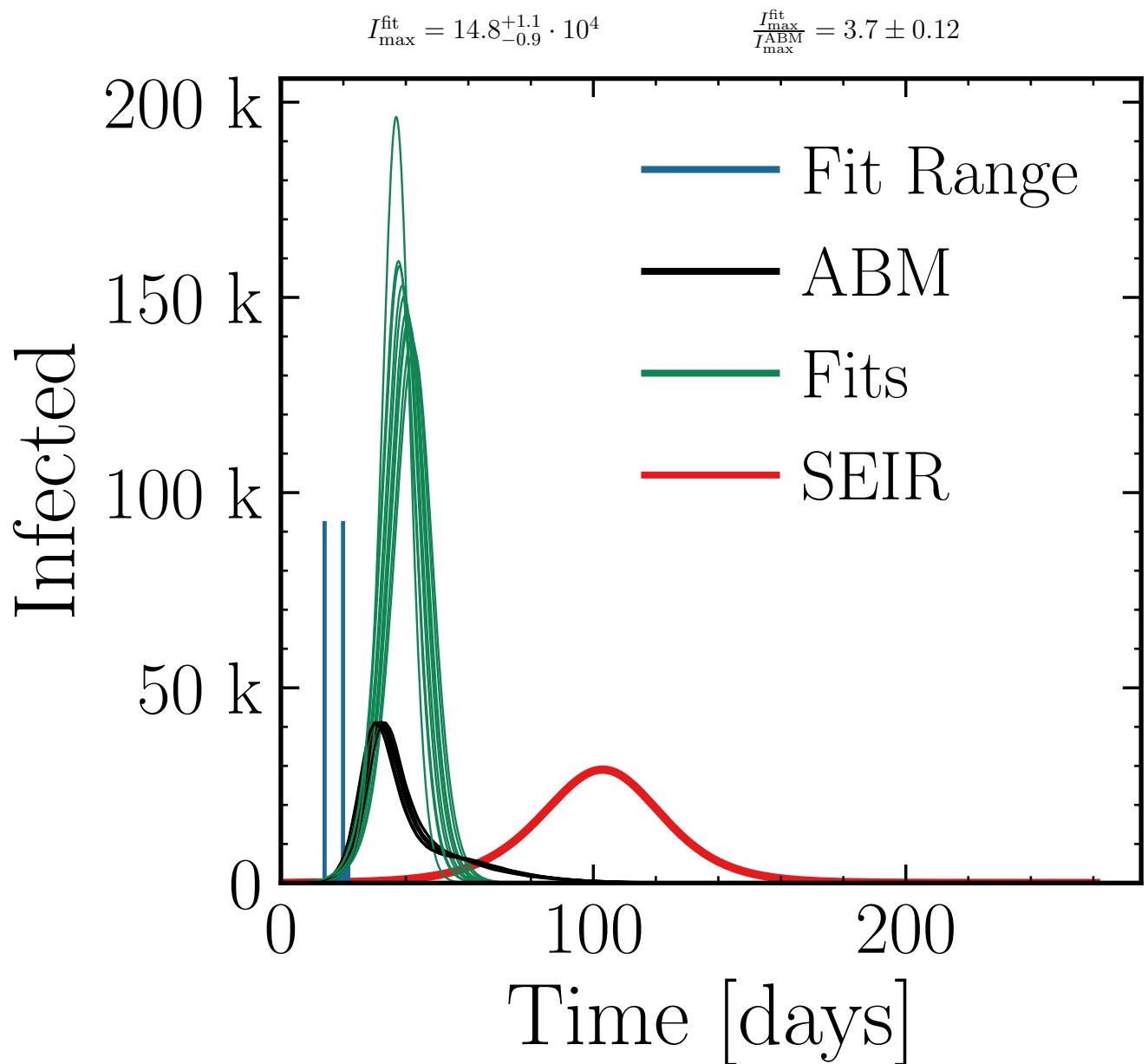
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



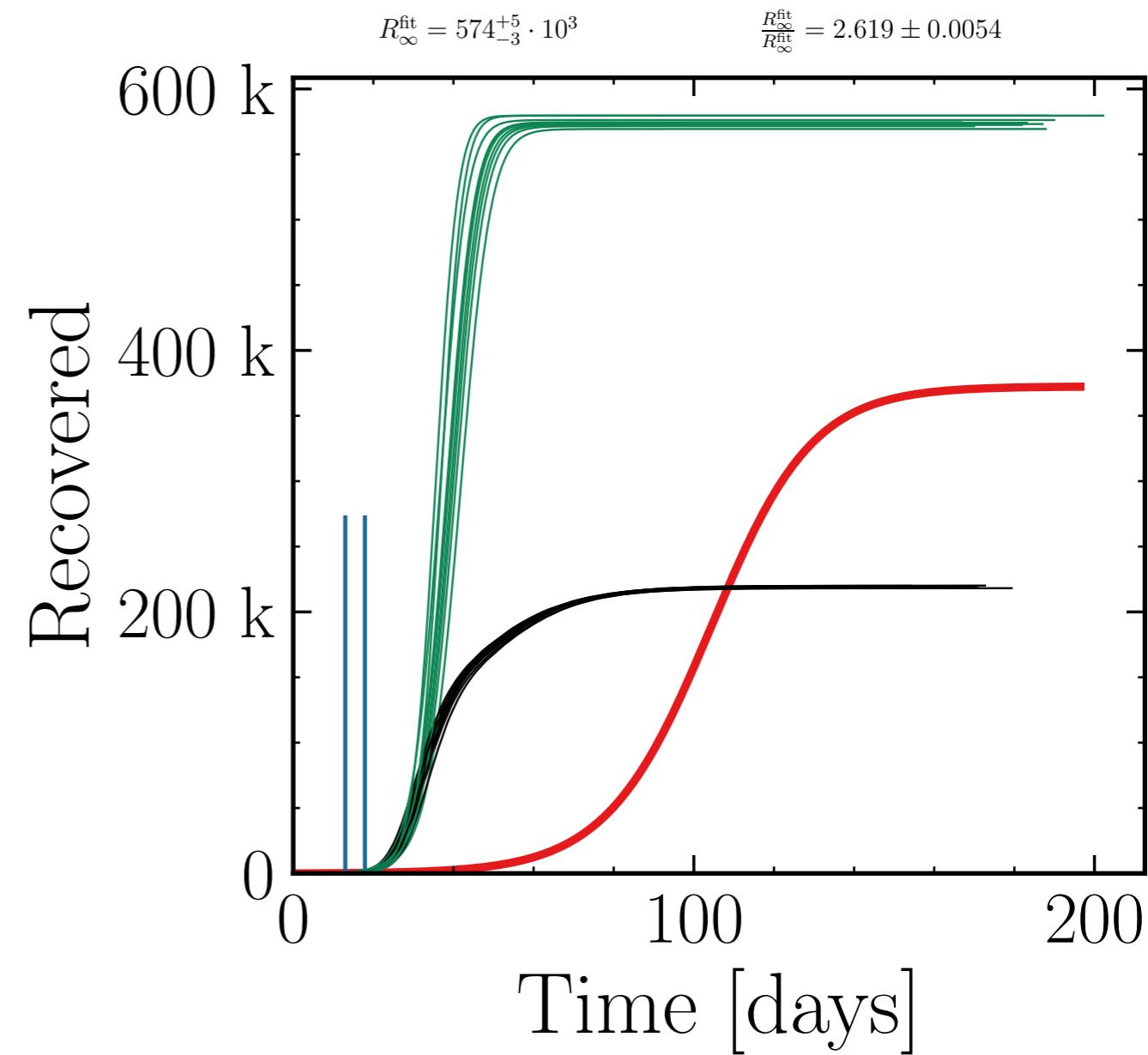
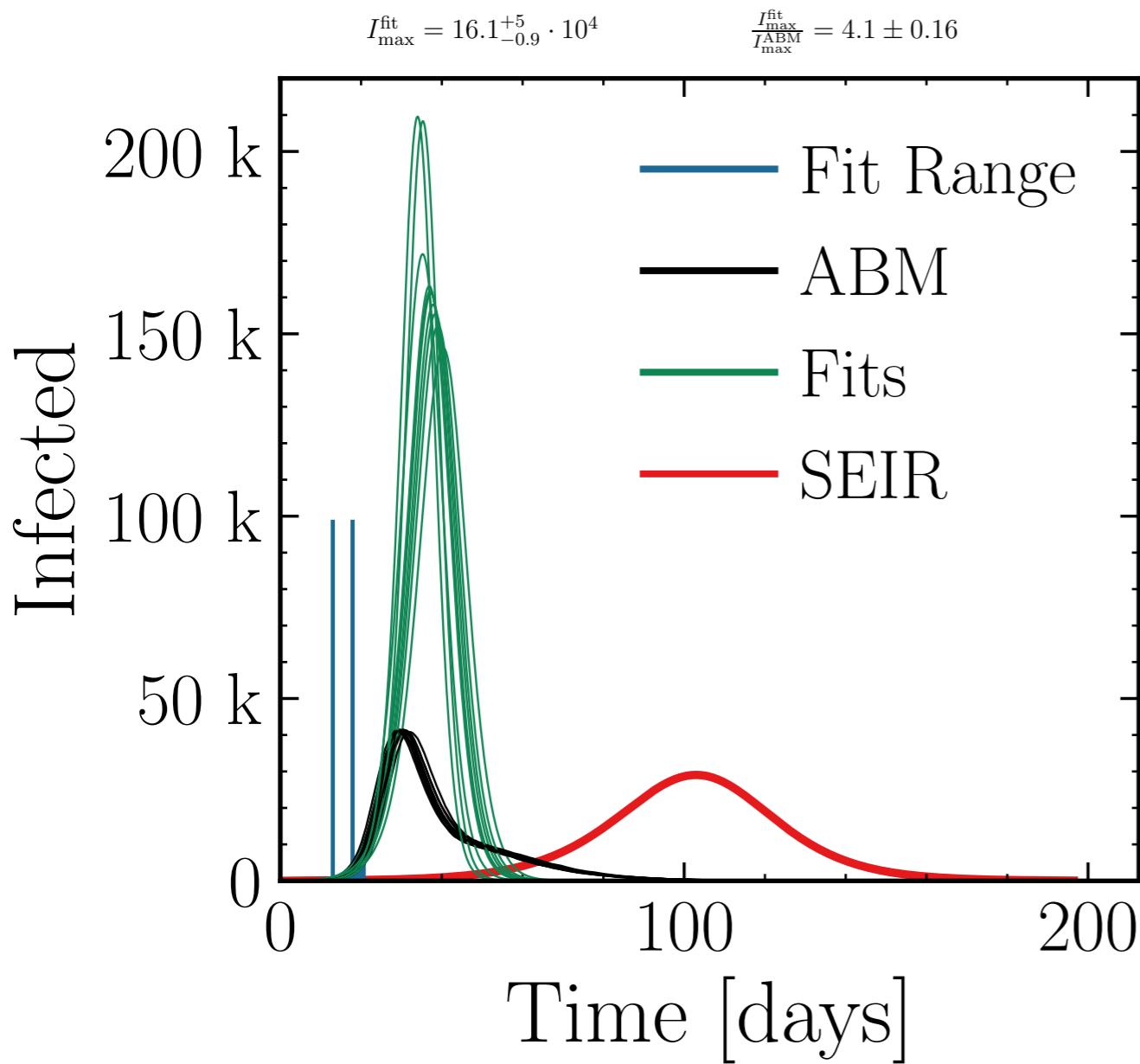
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



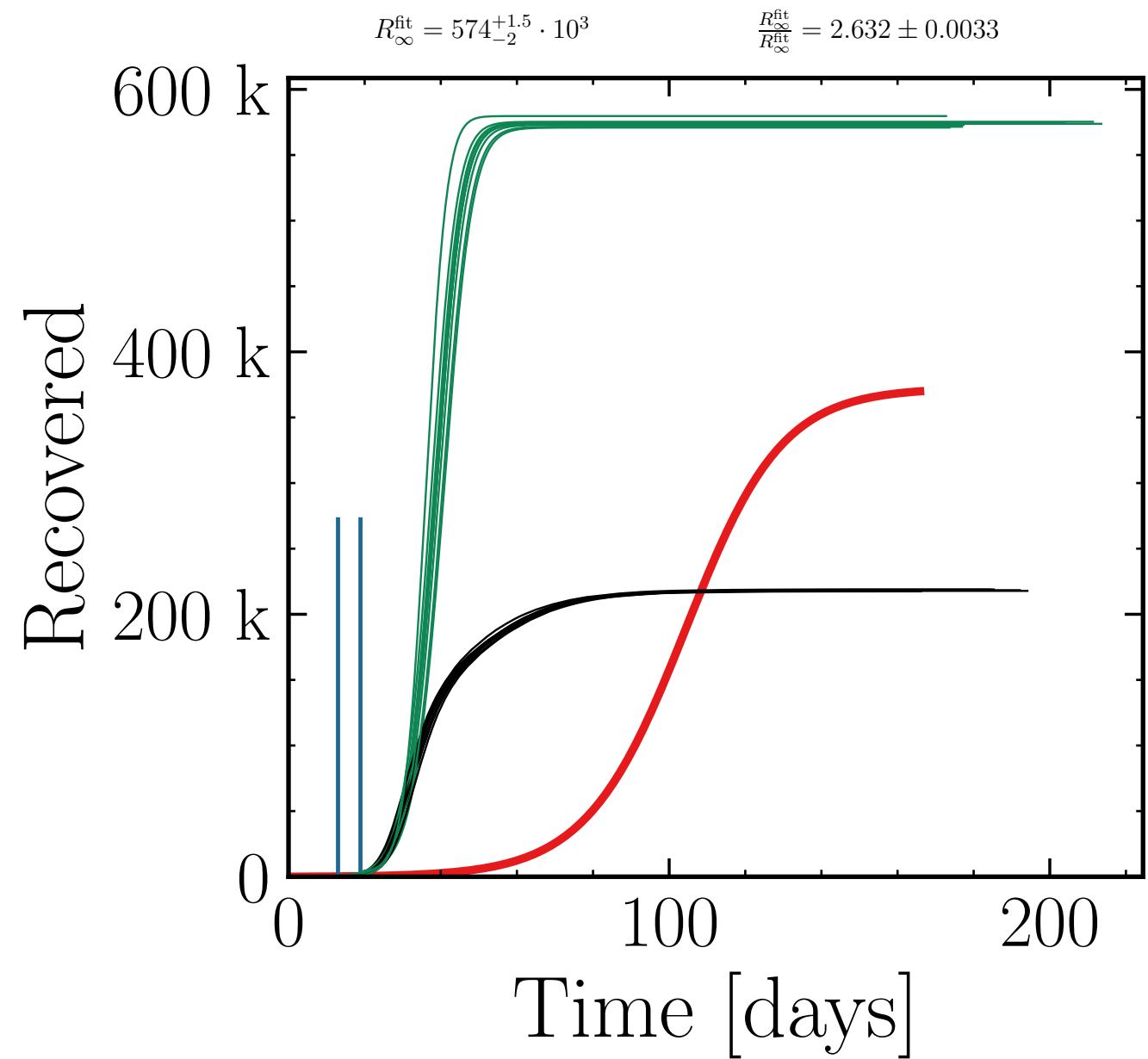
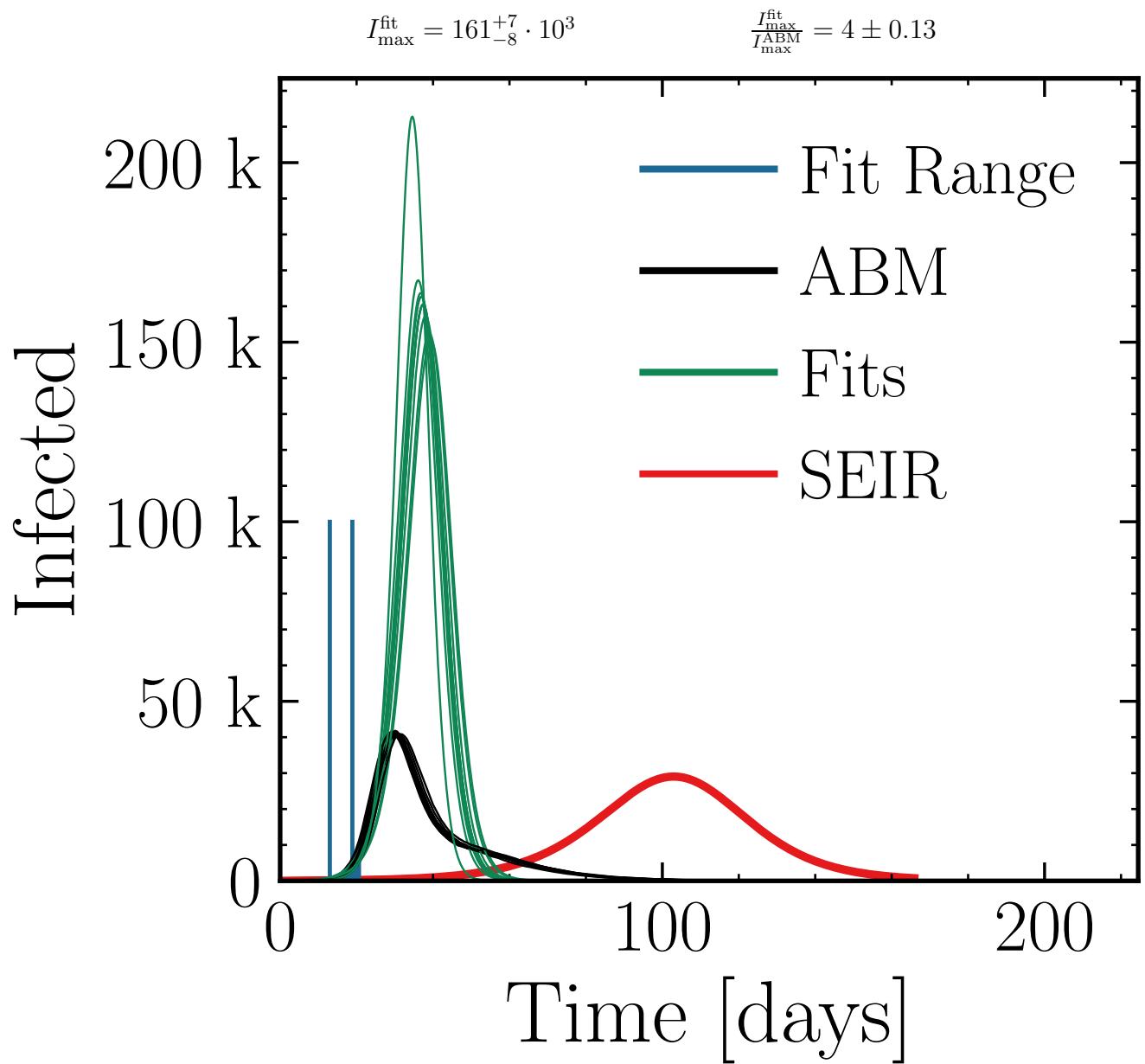
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



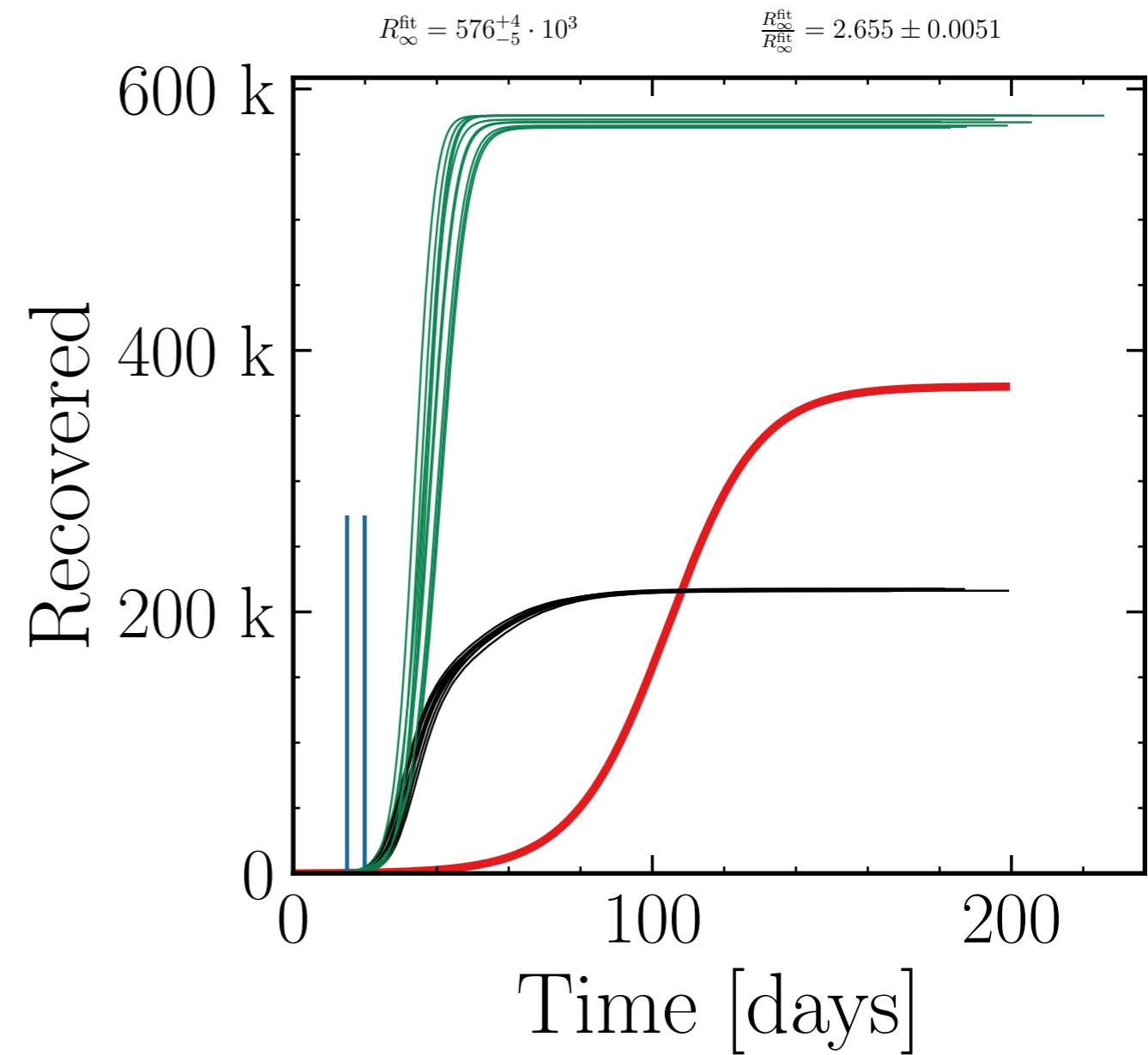
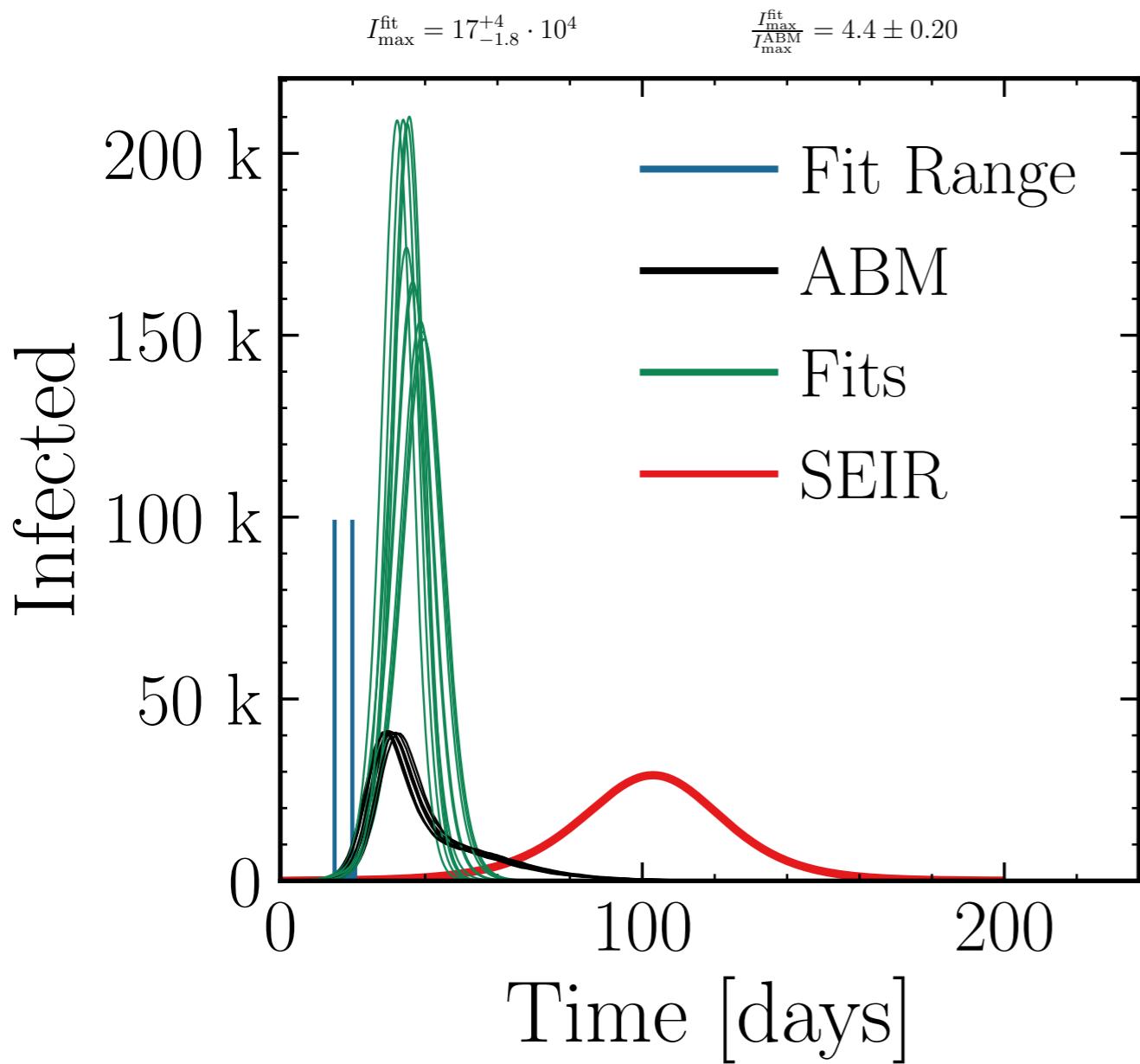
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



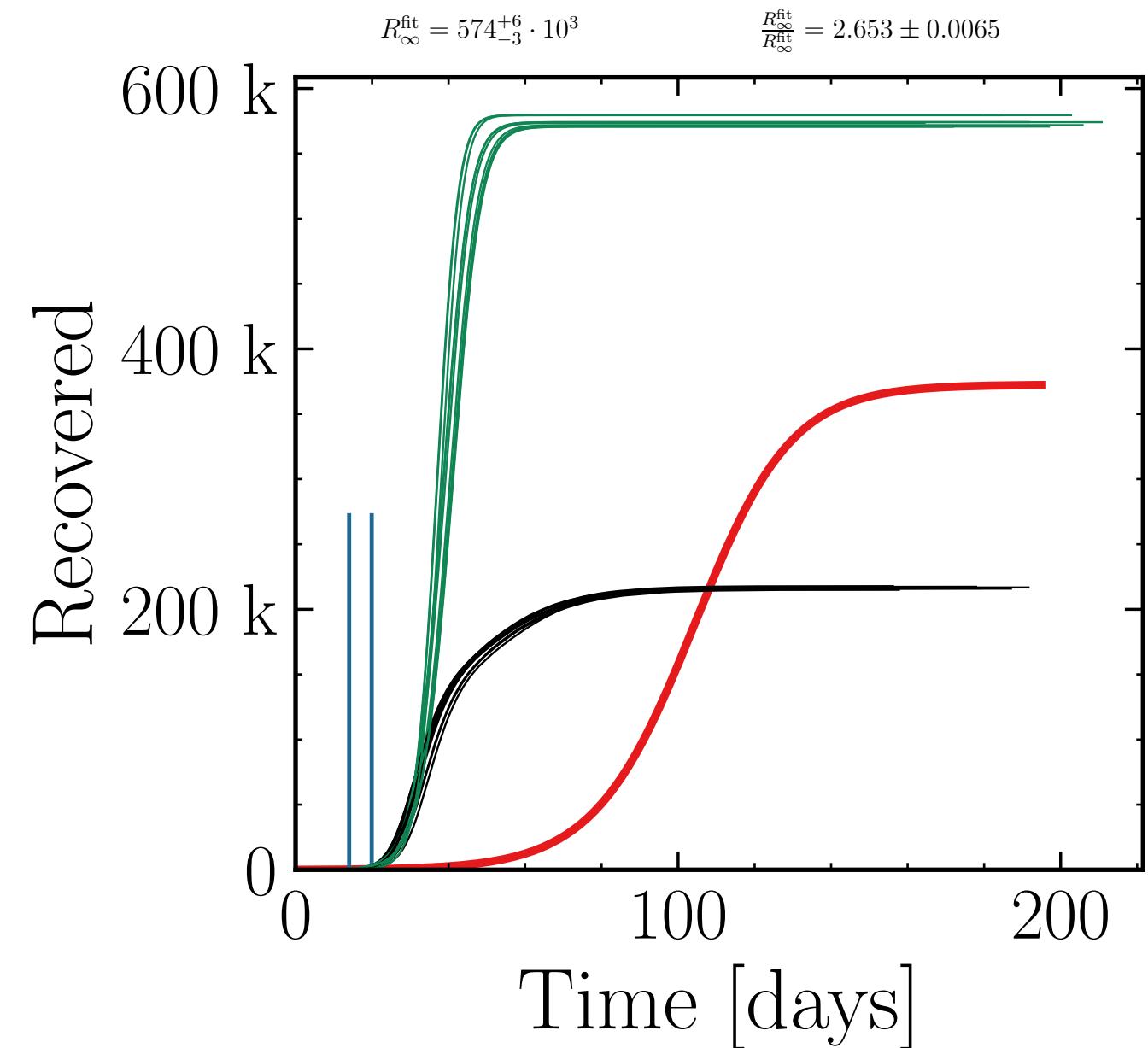
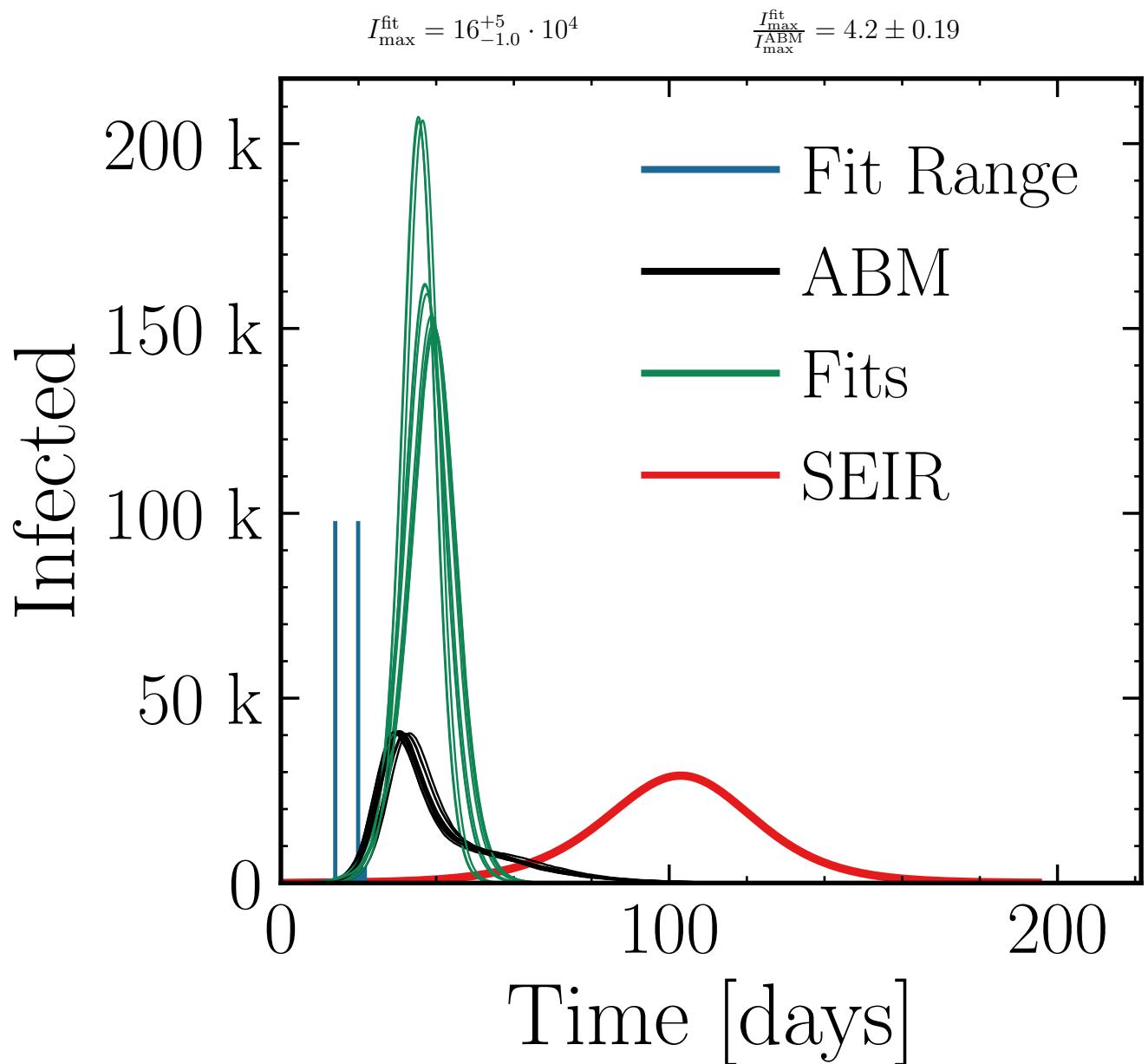
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



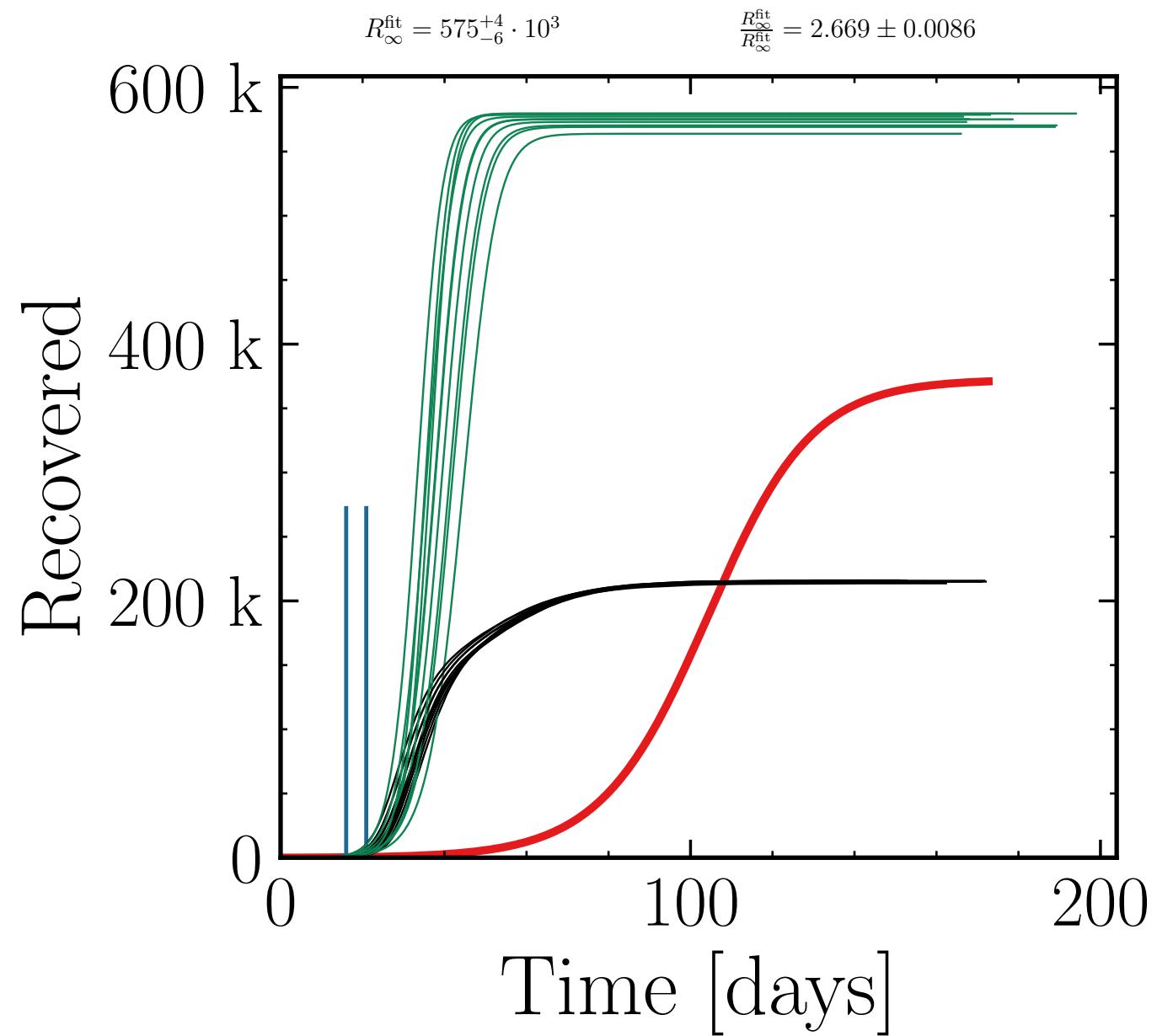
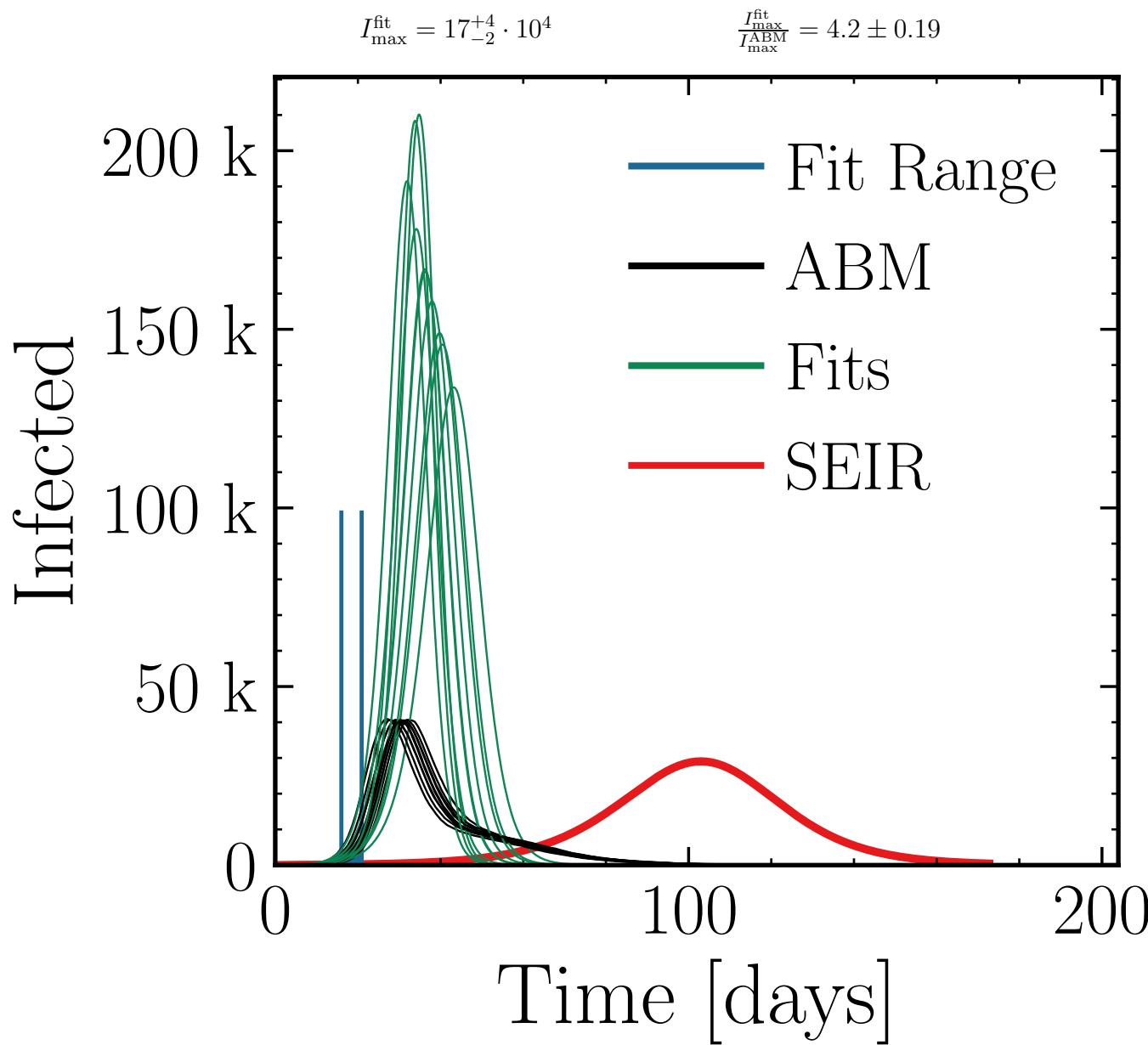
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



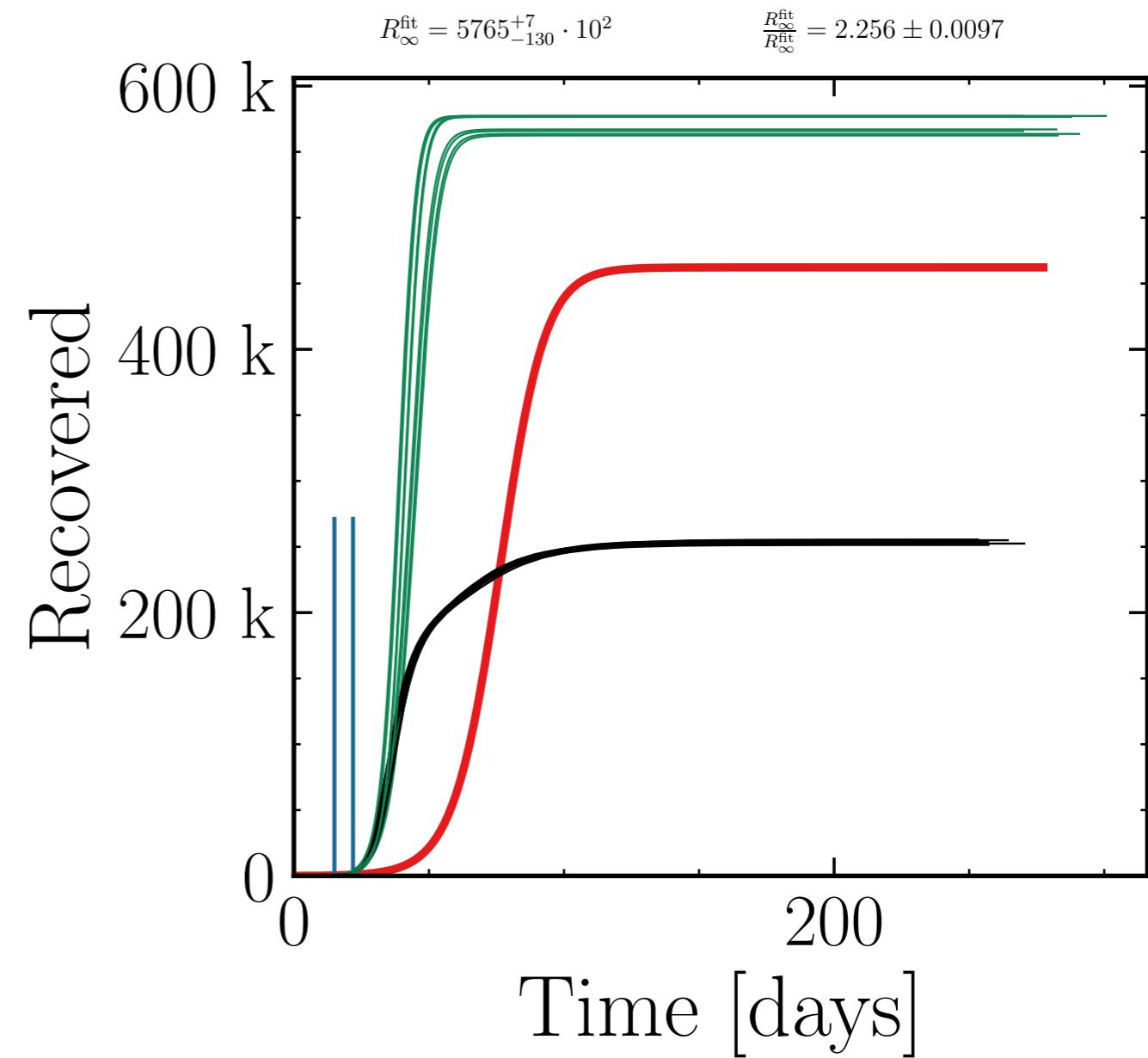
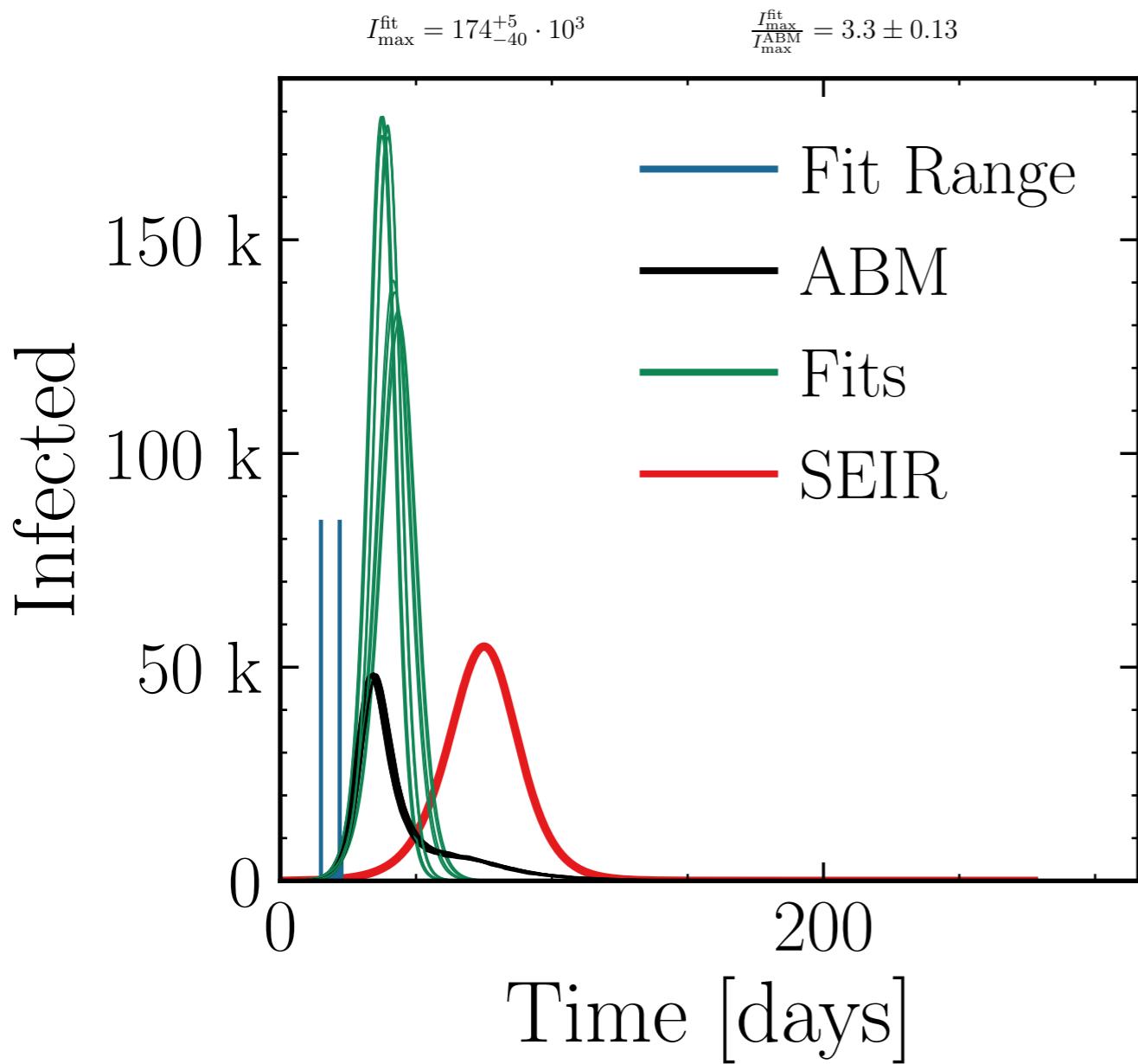
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
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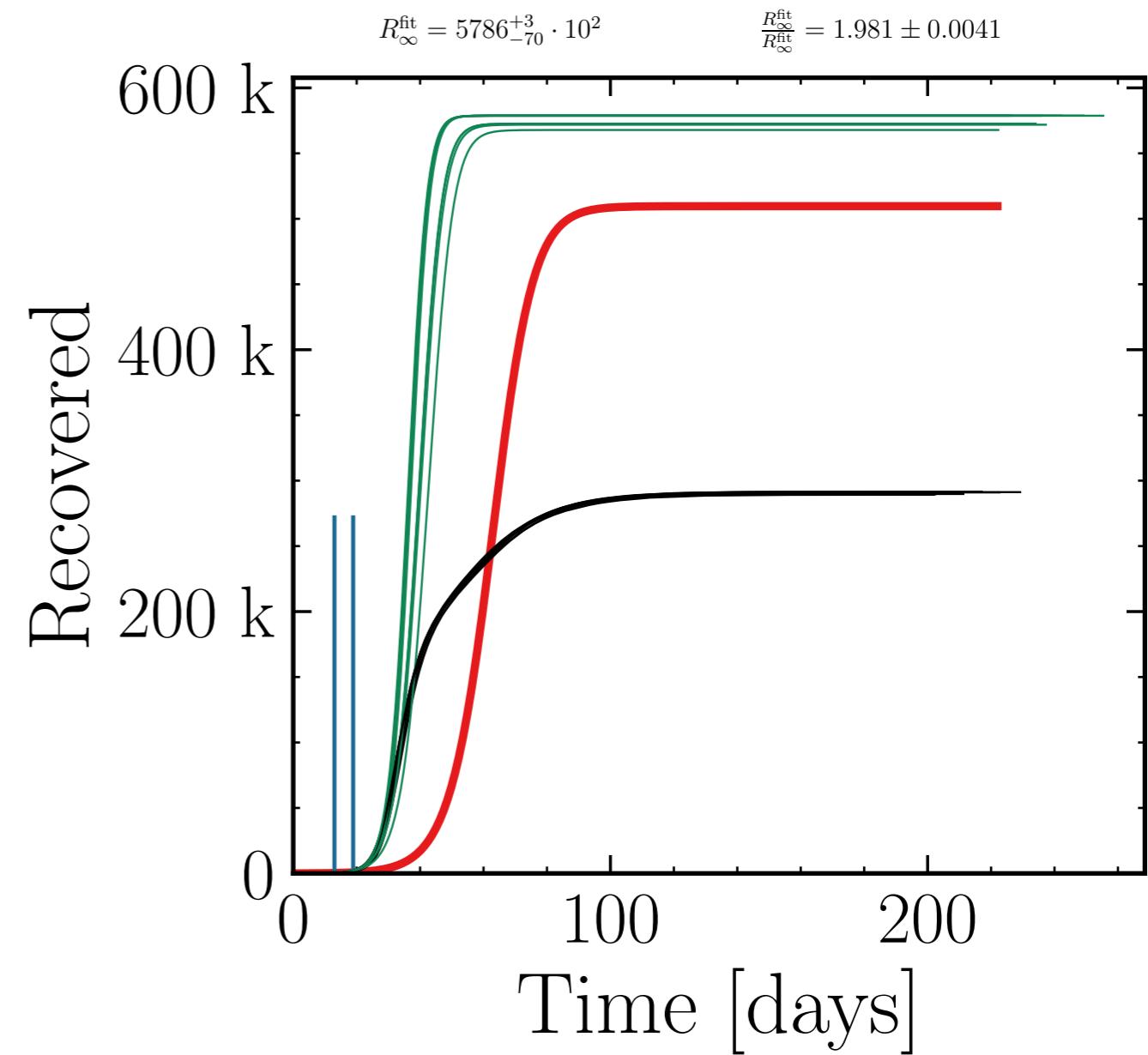
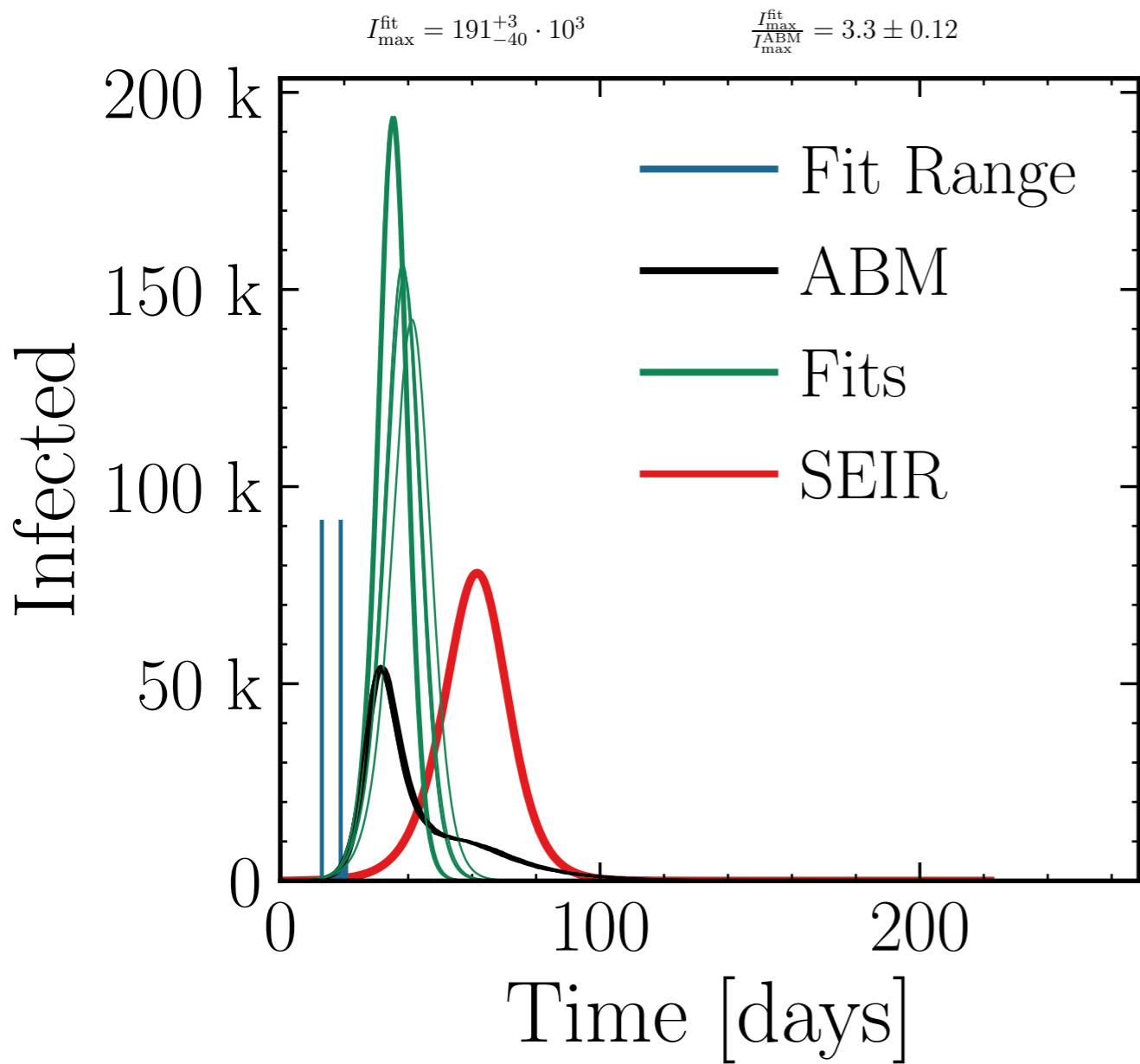
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



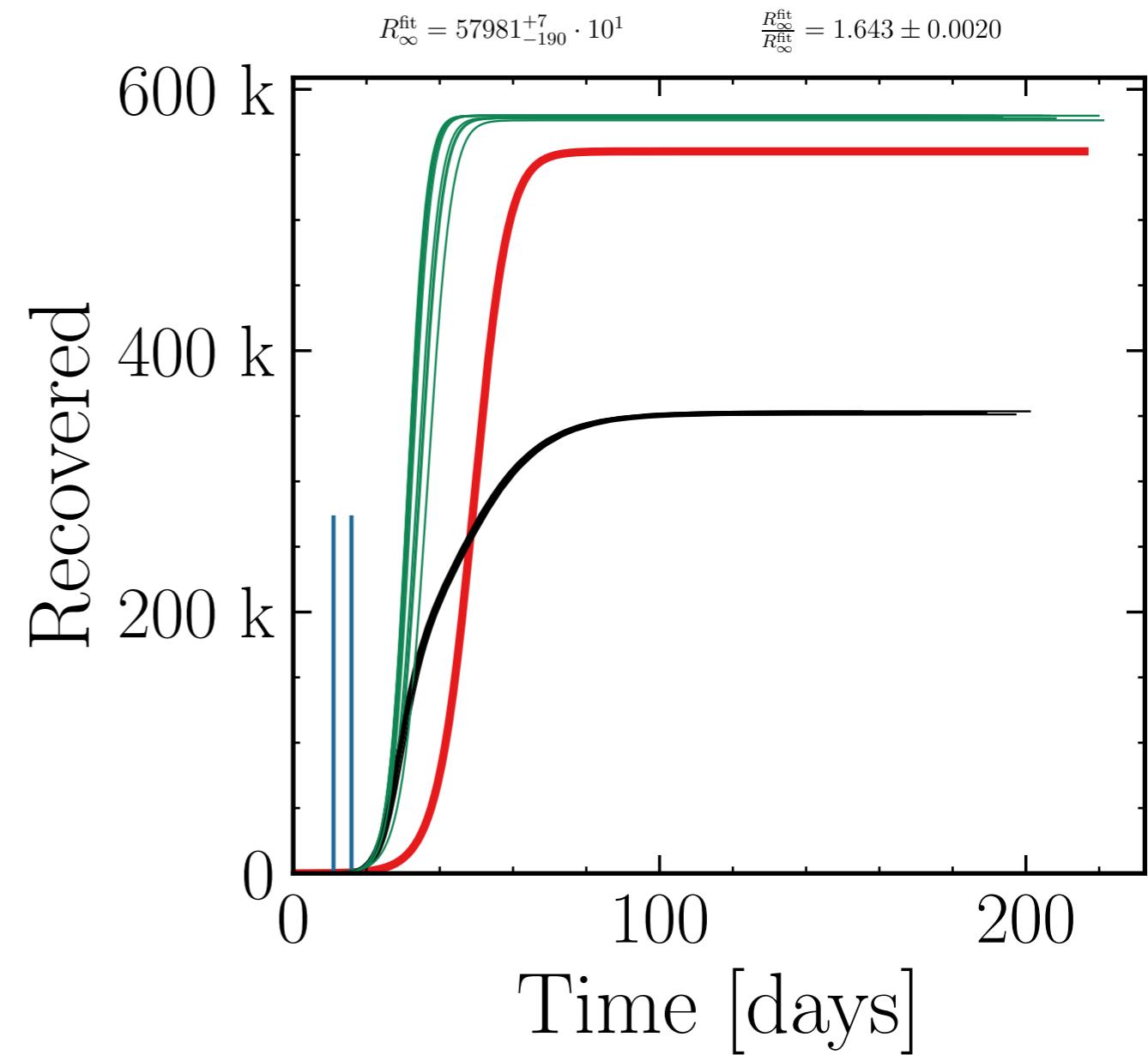
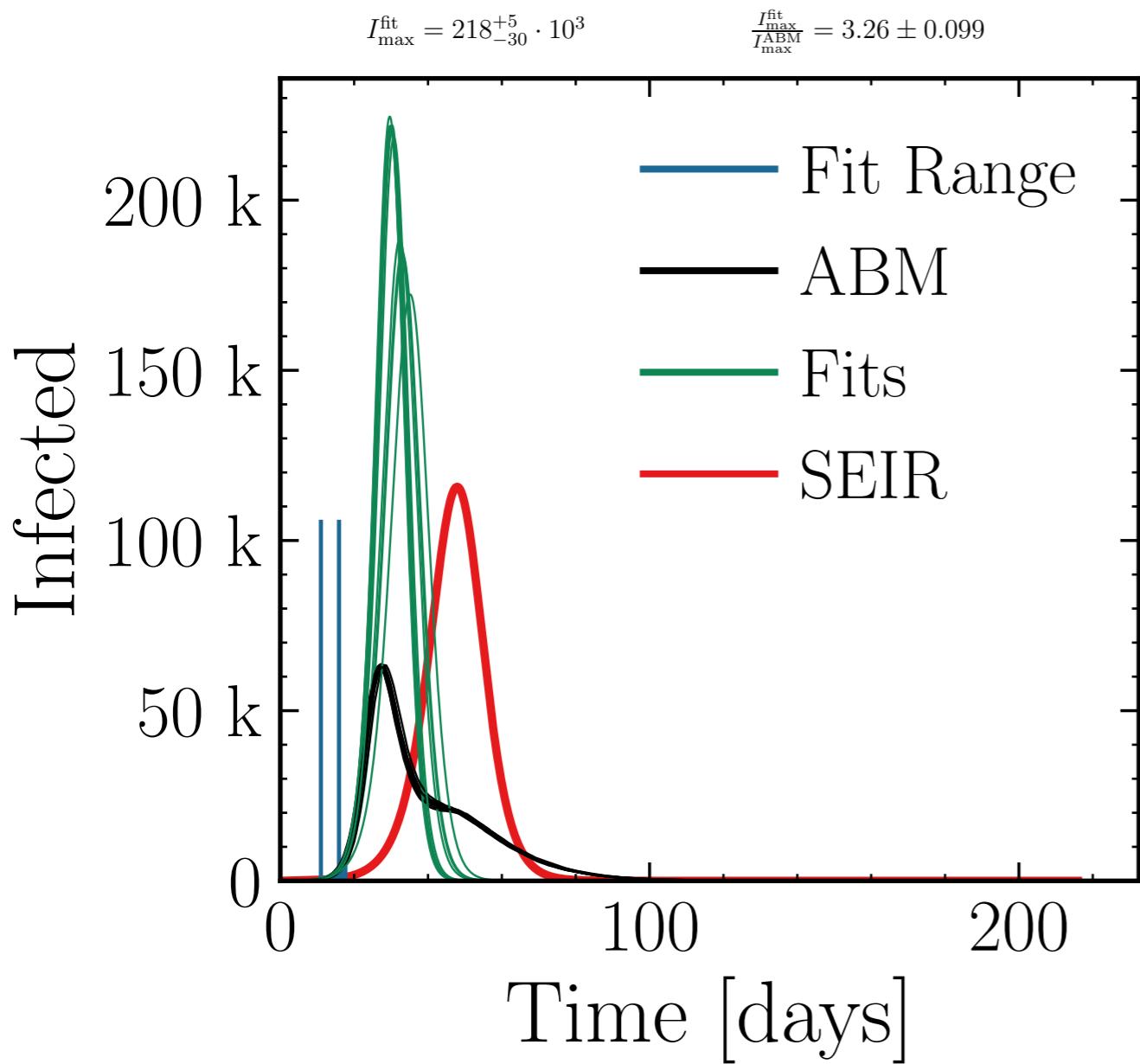
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



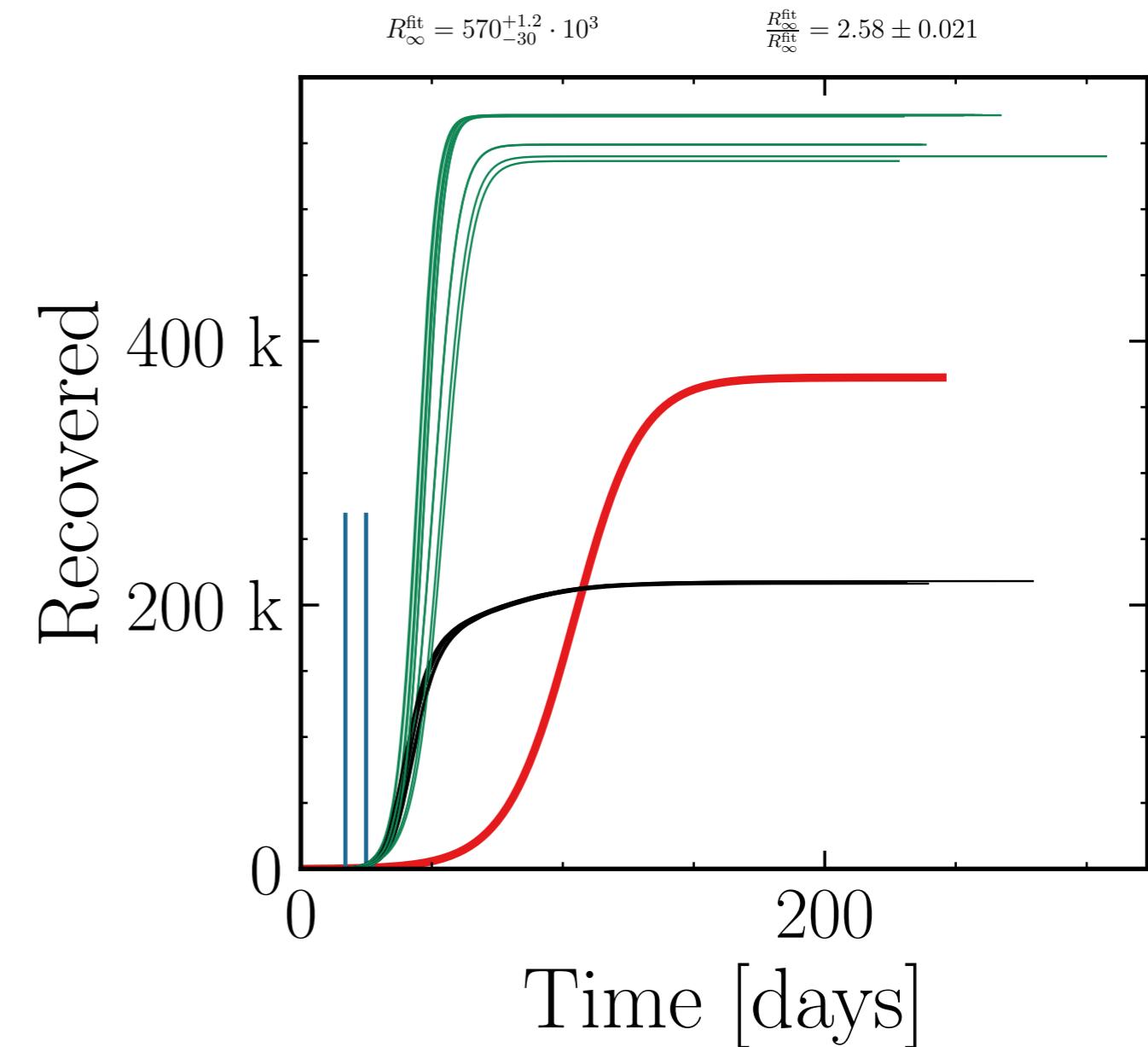
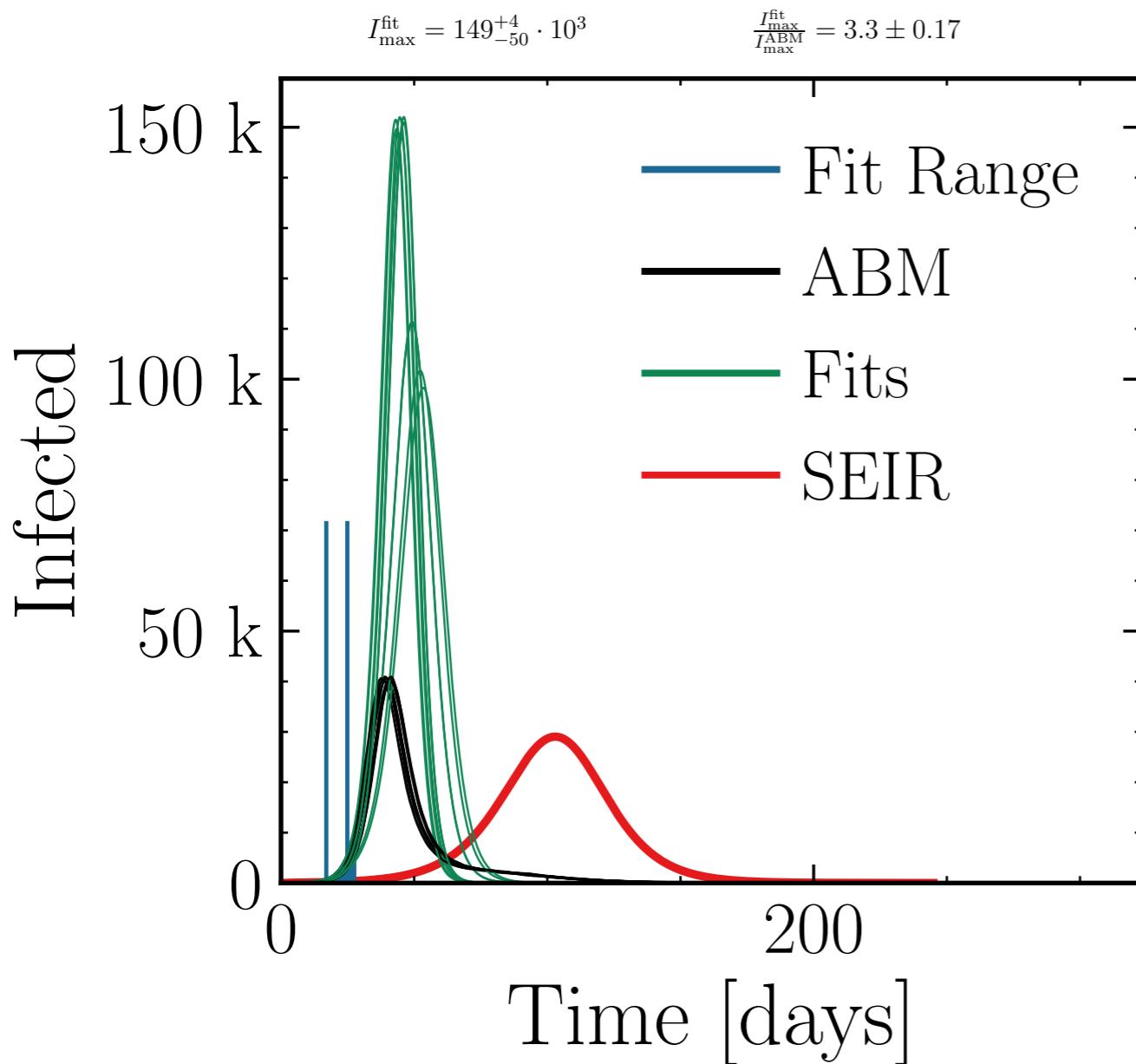
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



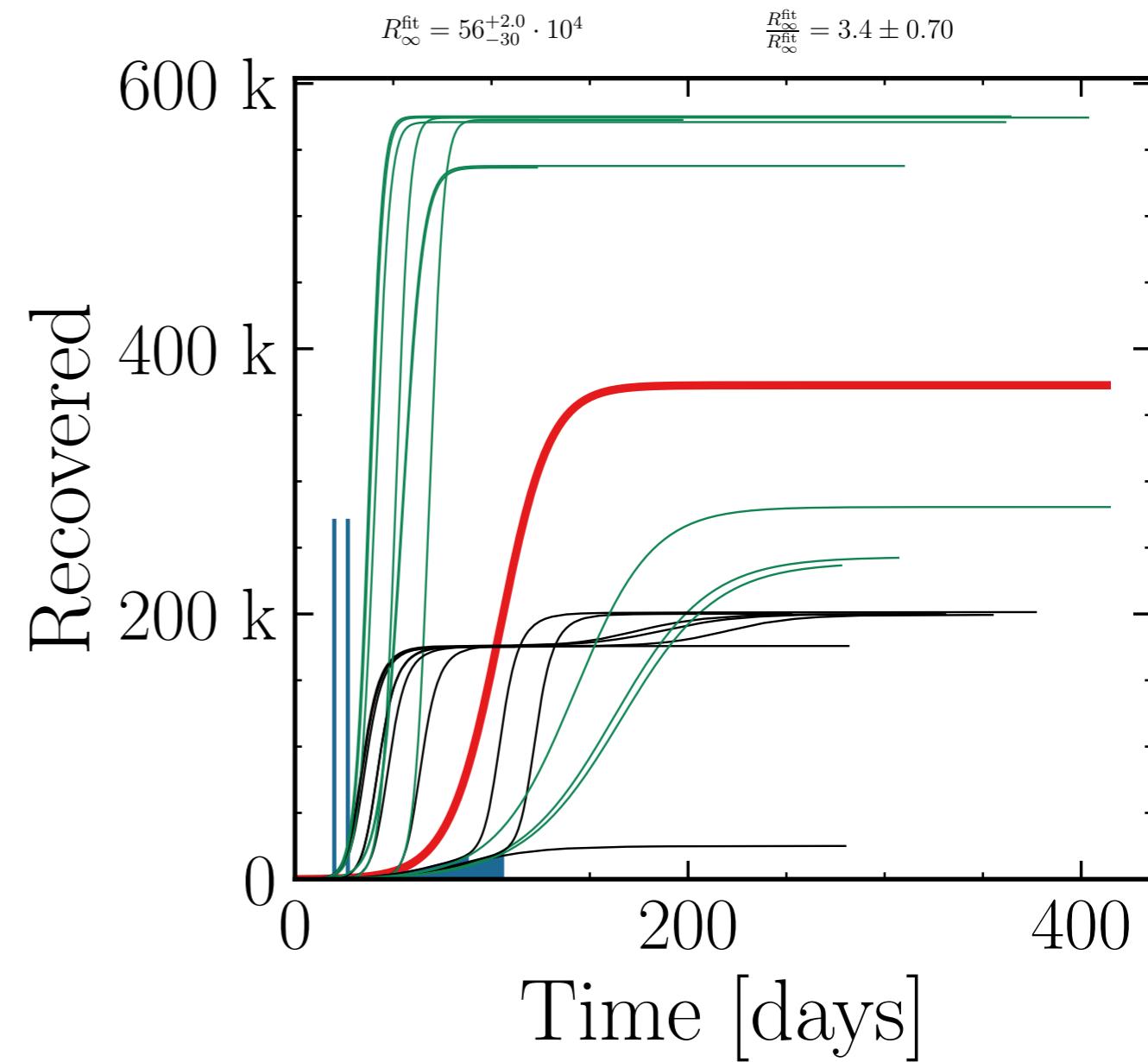
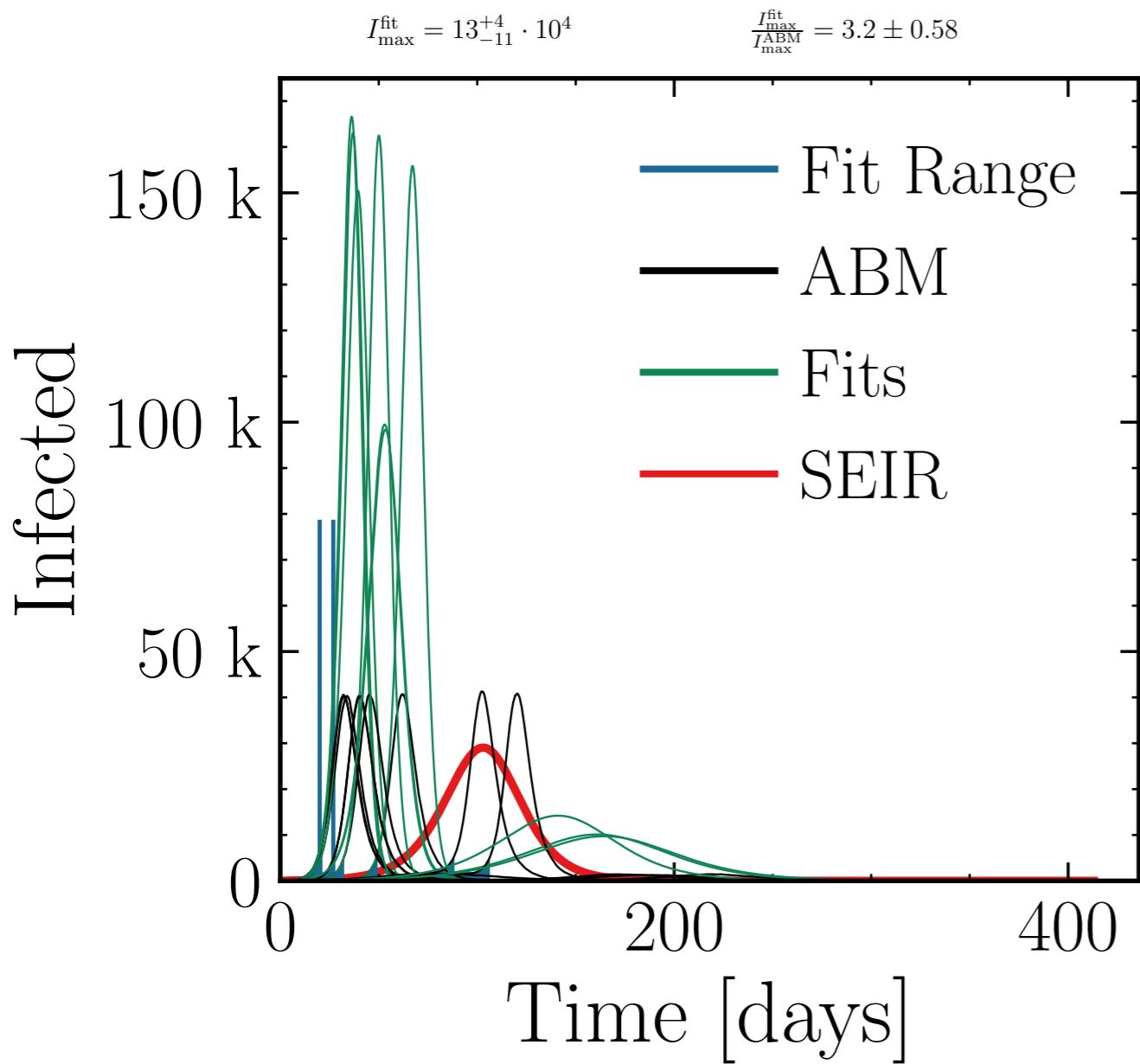
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



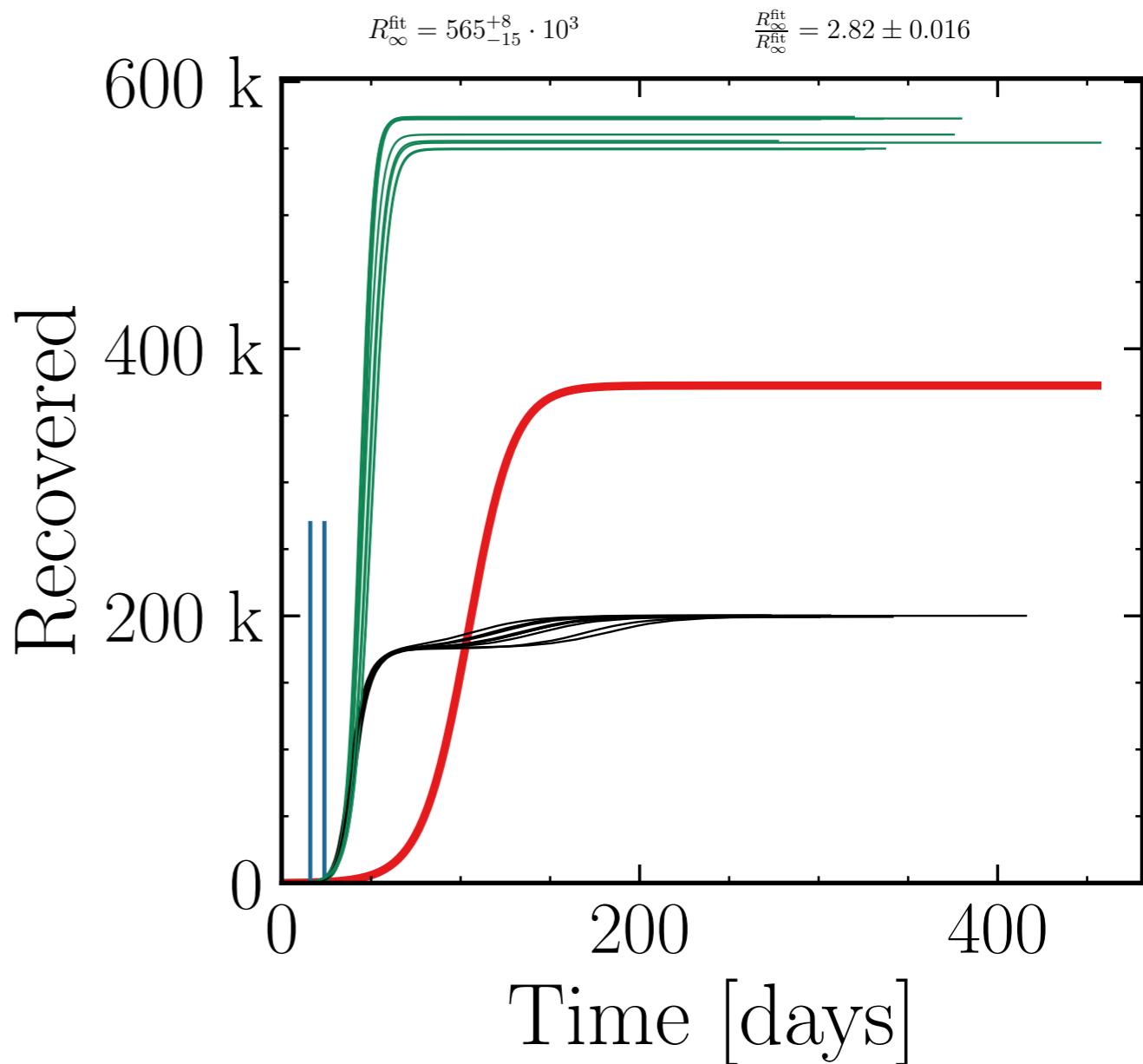
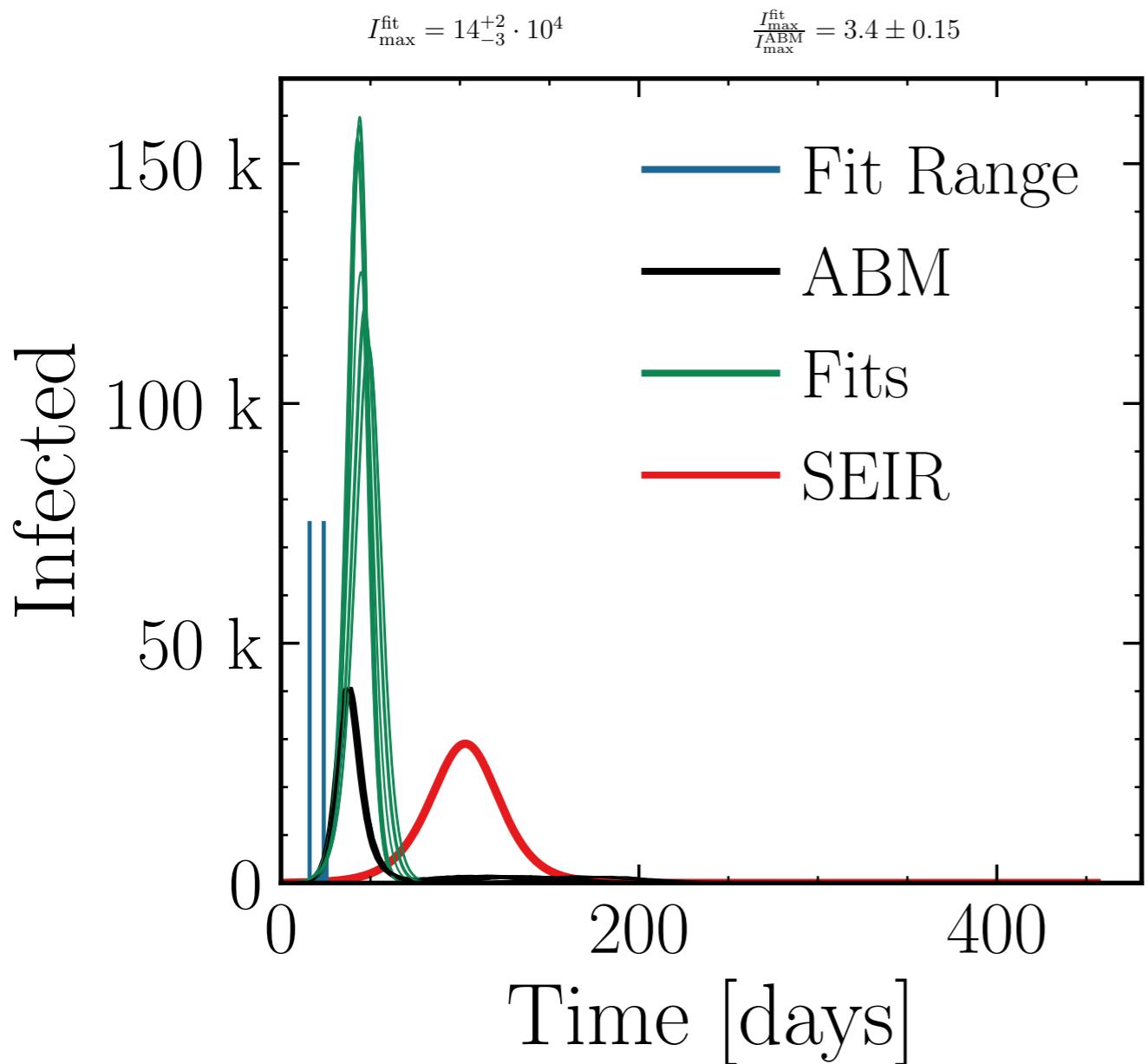
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.05$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = False,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



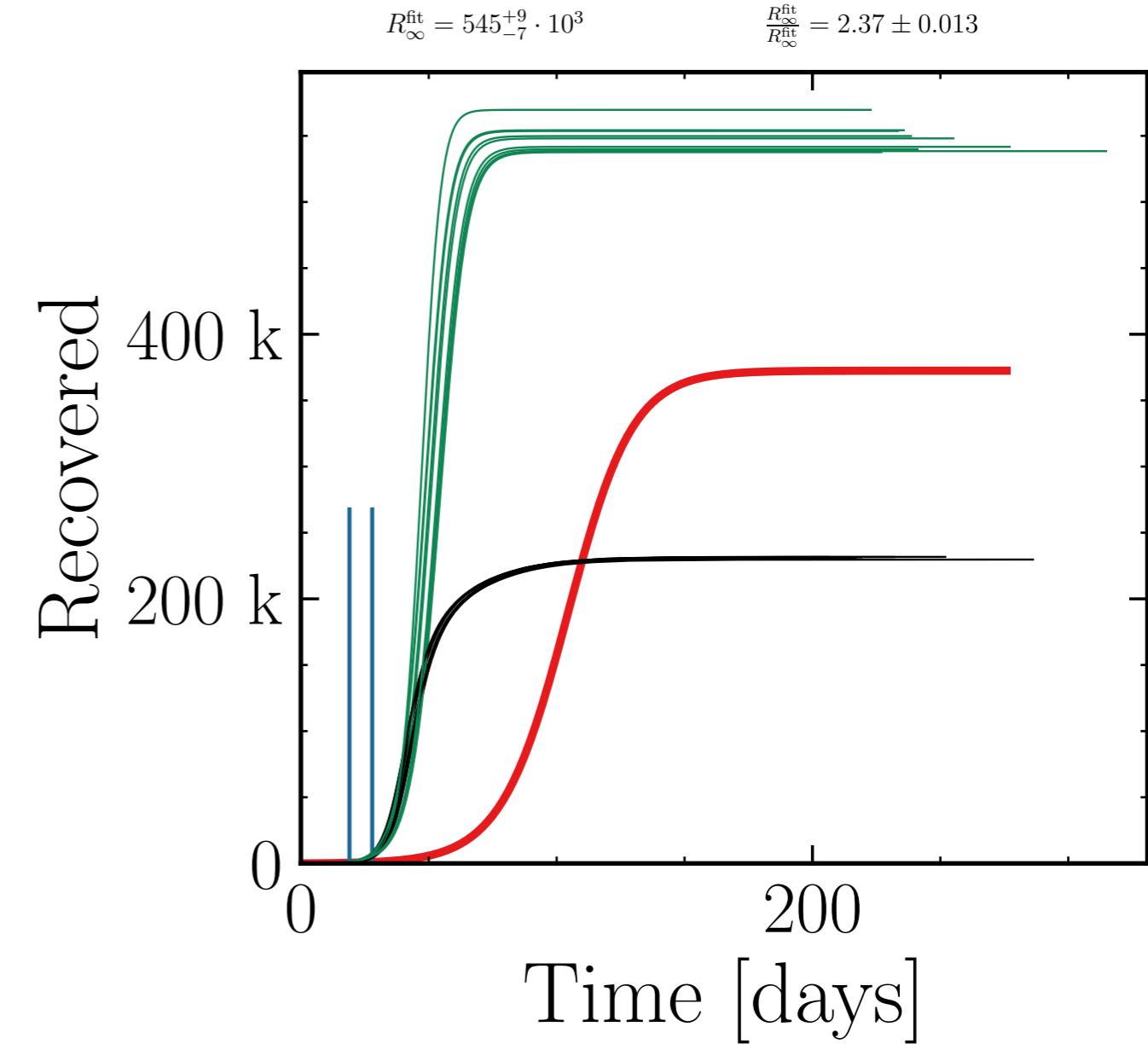
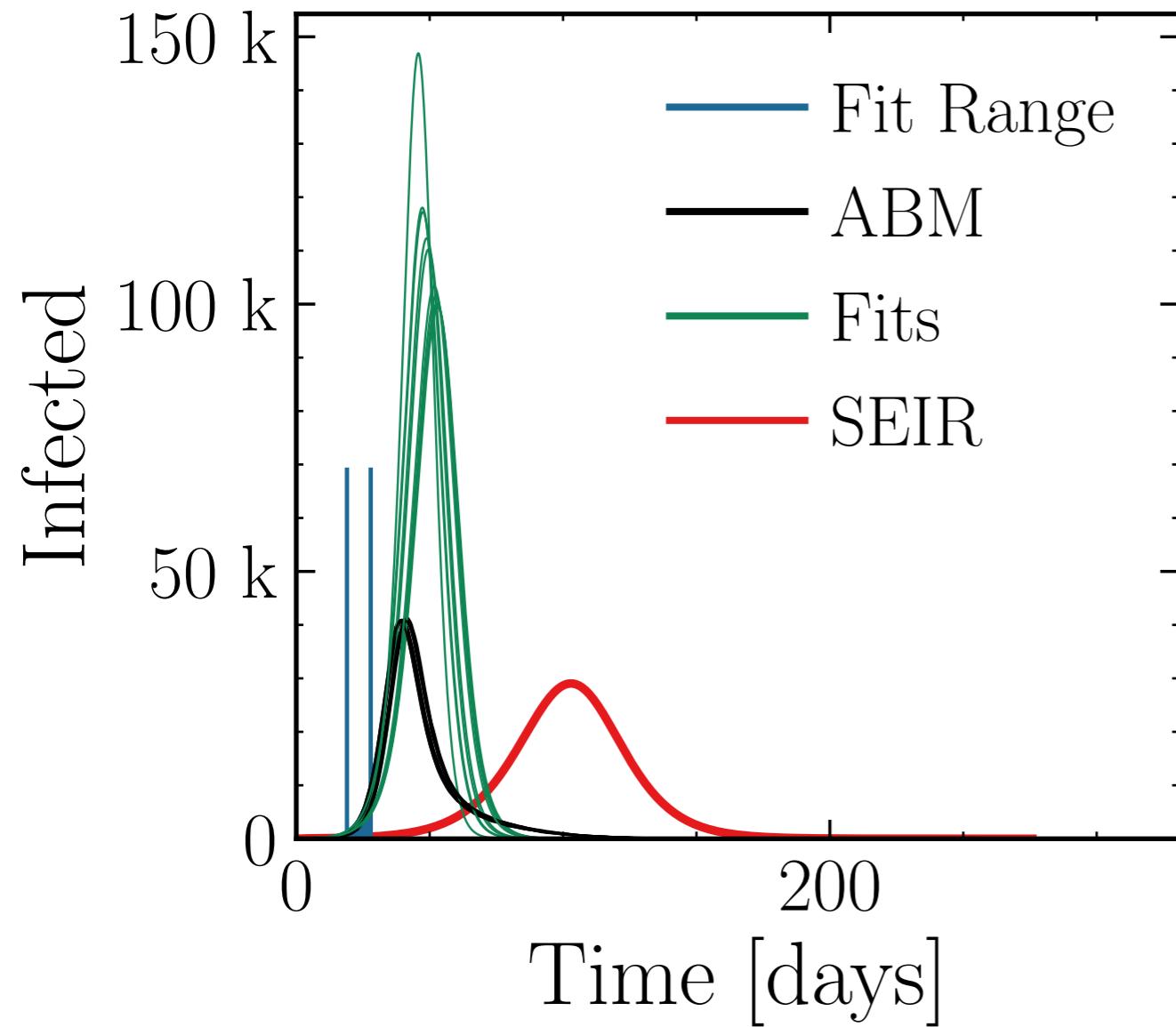
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 10.7^{+1.1}_{-0.7} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 2.7 \pm 0.11$$



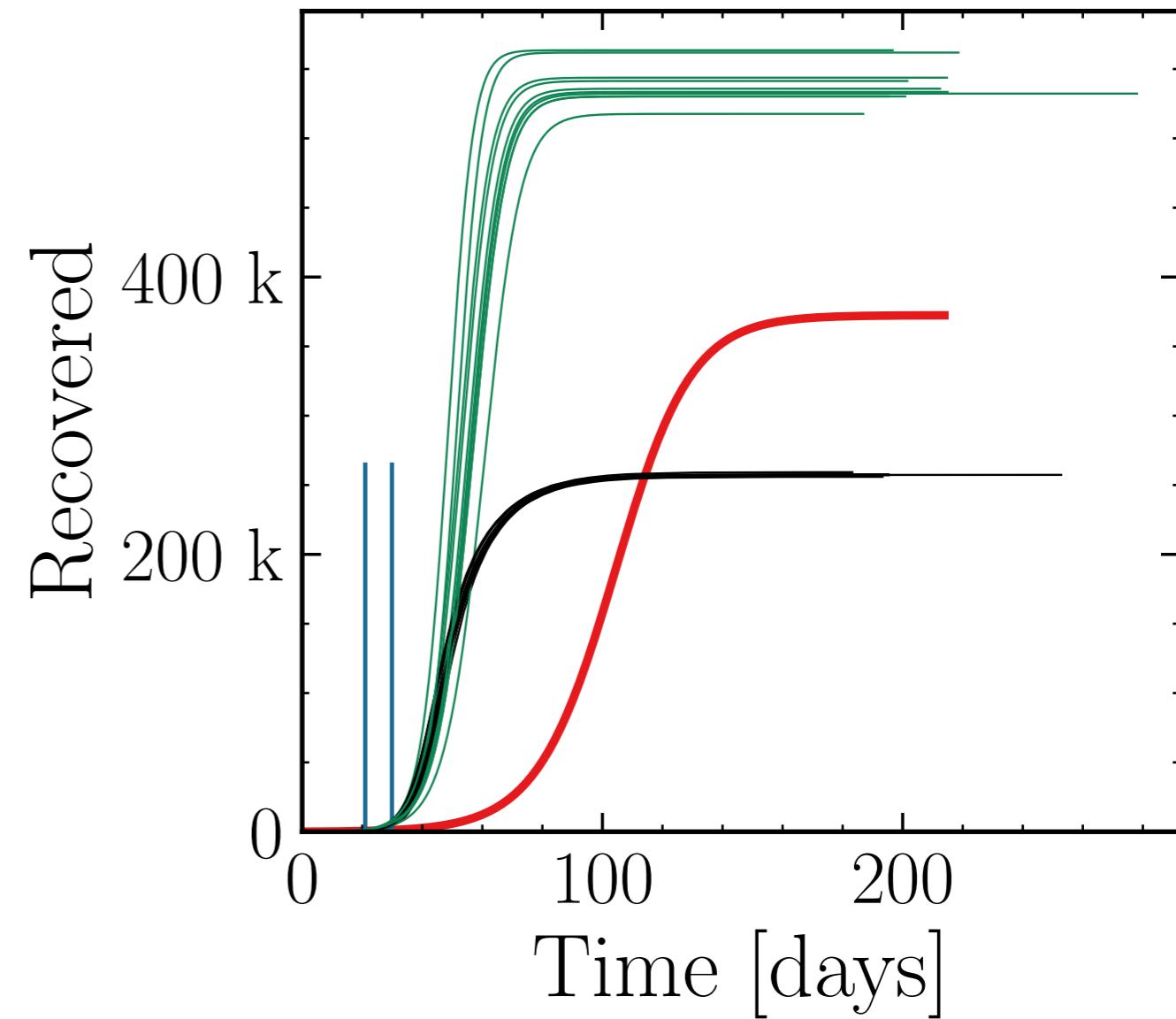
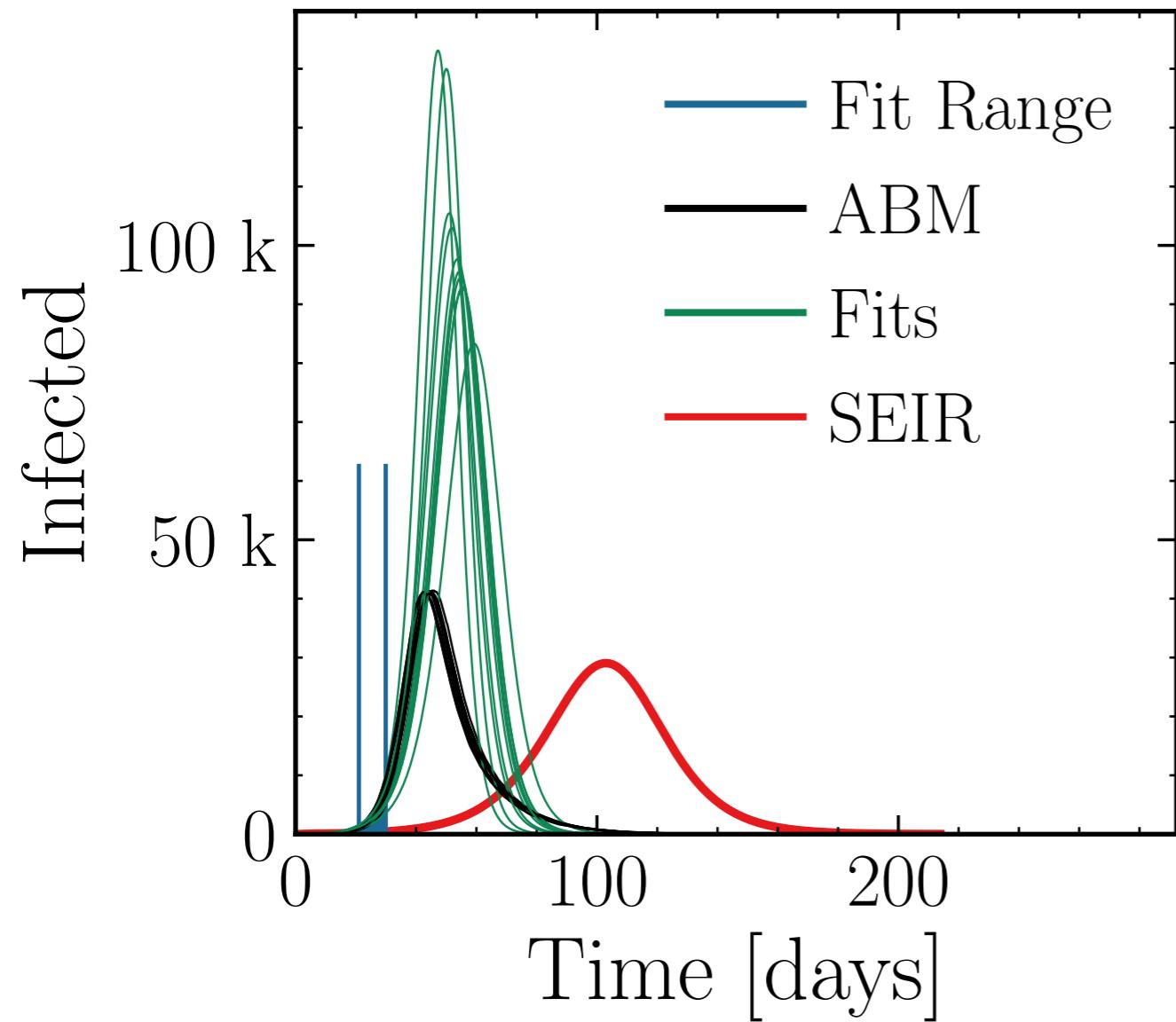
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.2$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 9.7^{+3}_{-0.4} \cdot 10^4$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 2.5 \pm 0.12$$

$$R_{\infty}^{\text{fit}} = 53.5^{+3}_{-0.5} \cdot 10^4$$

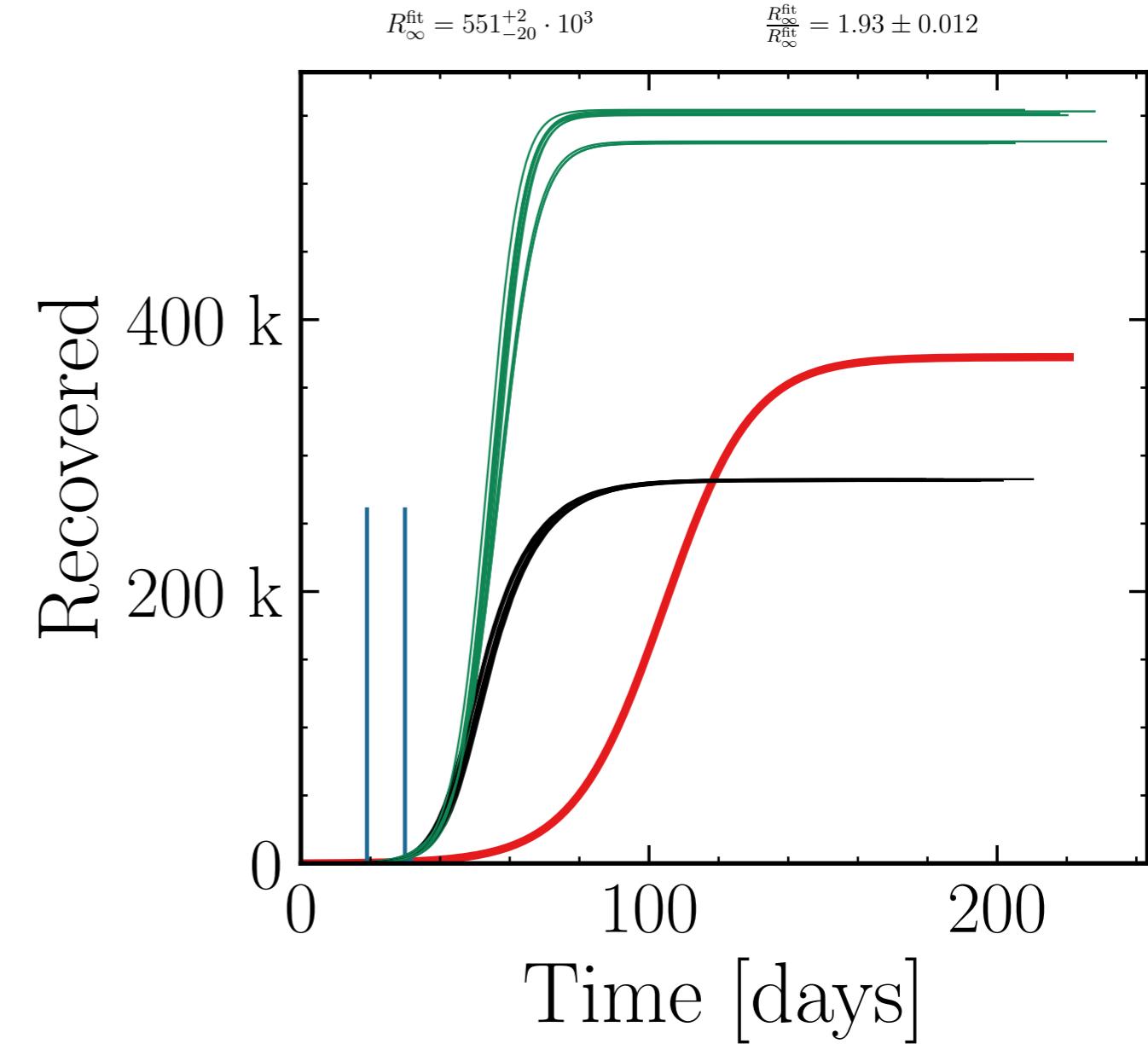
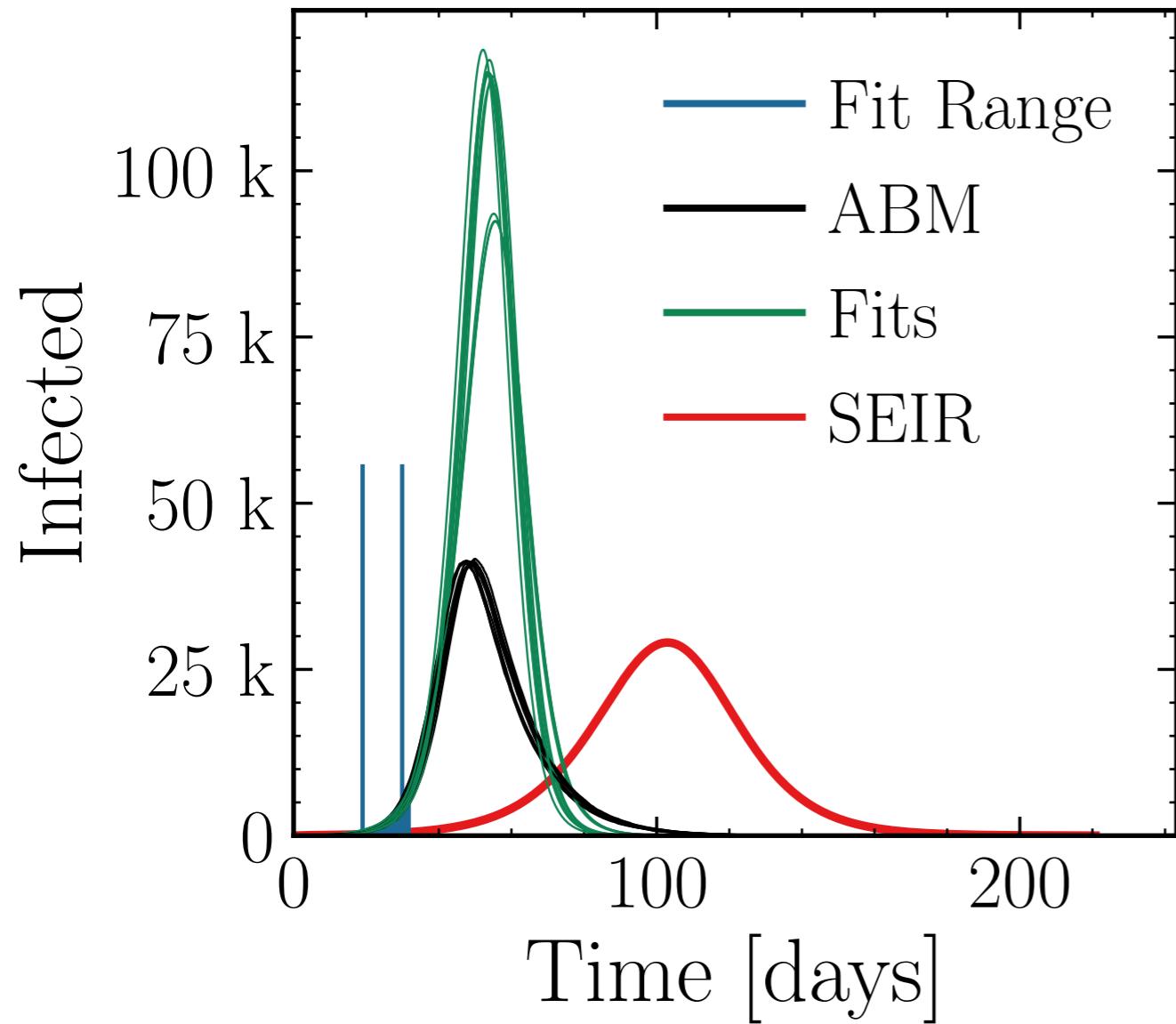
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.1 \pm 0.017$$



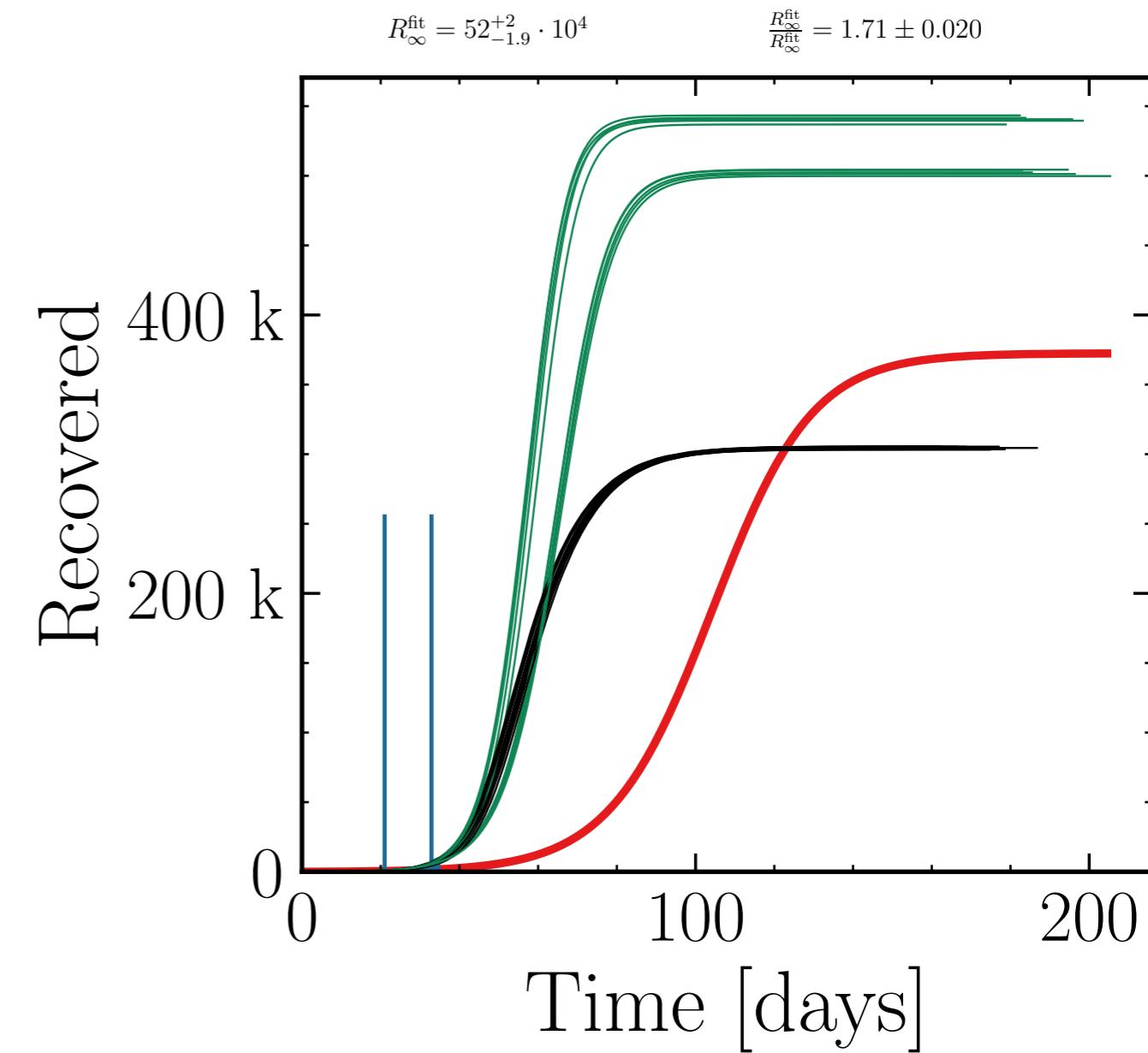
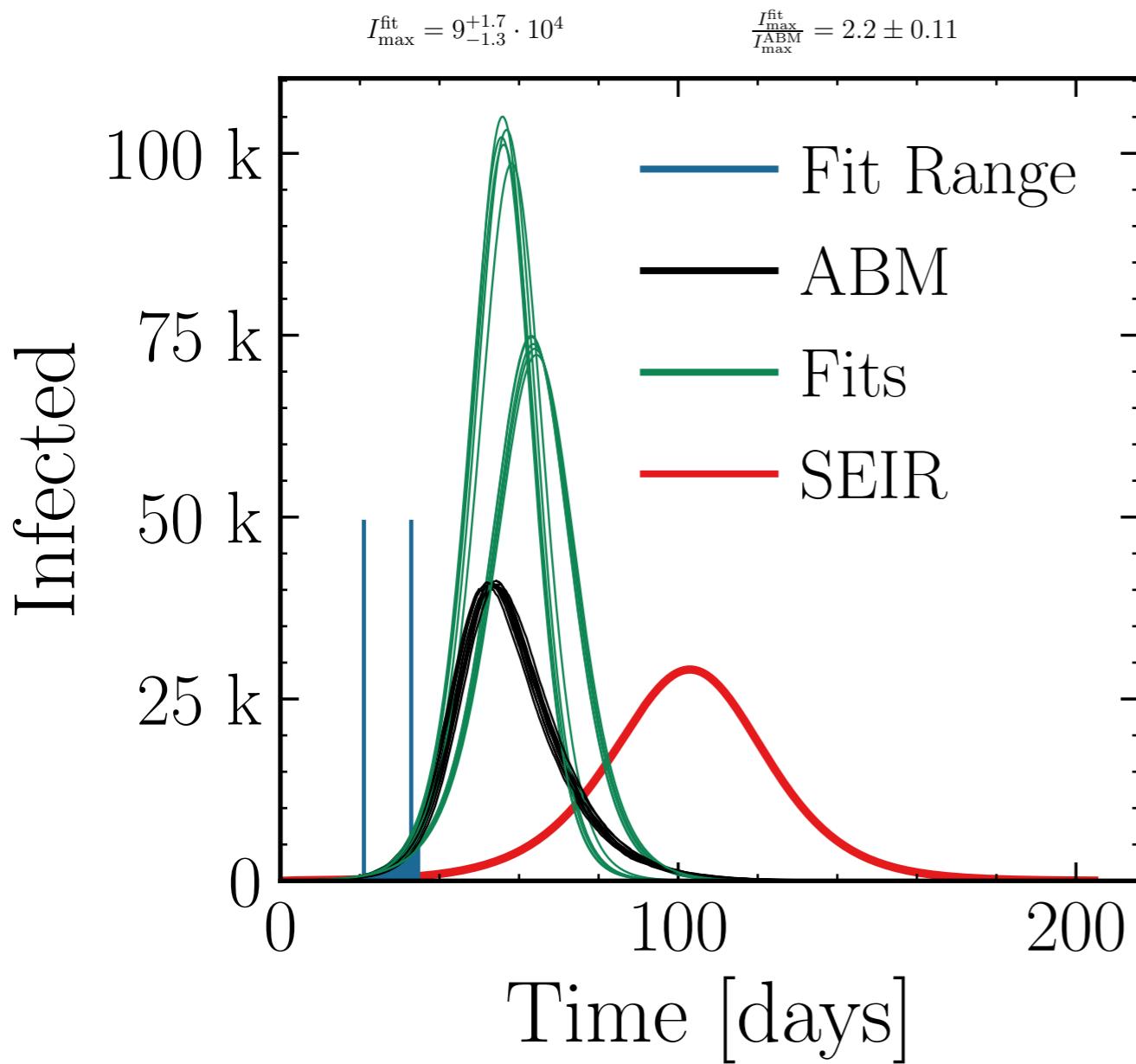
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.3$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 114_{-20}^{+3} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{fit}}} = 2.63 \pm 0.079$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.4$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



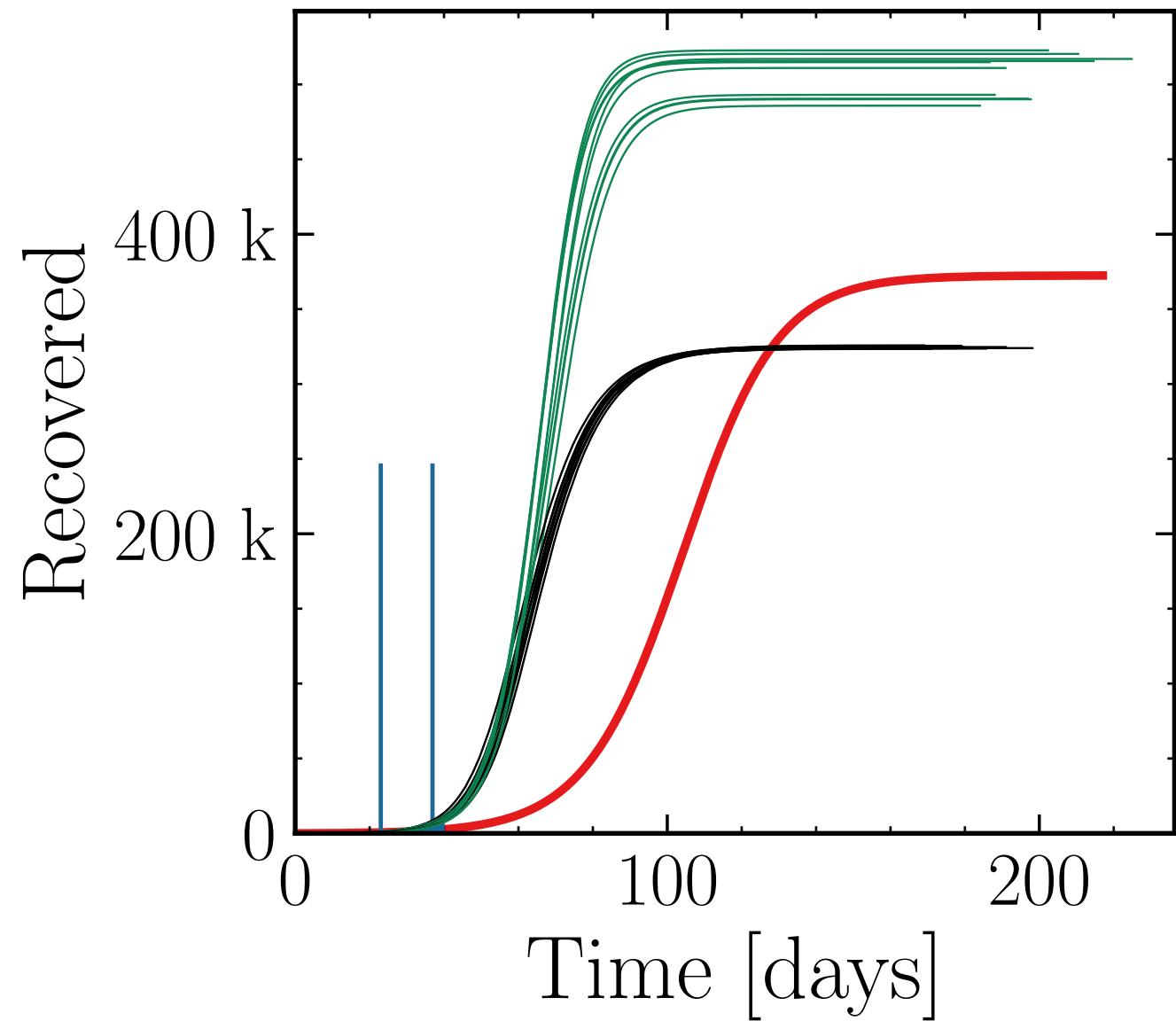
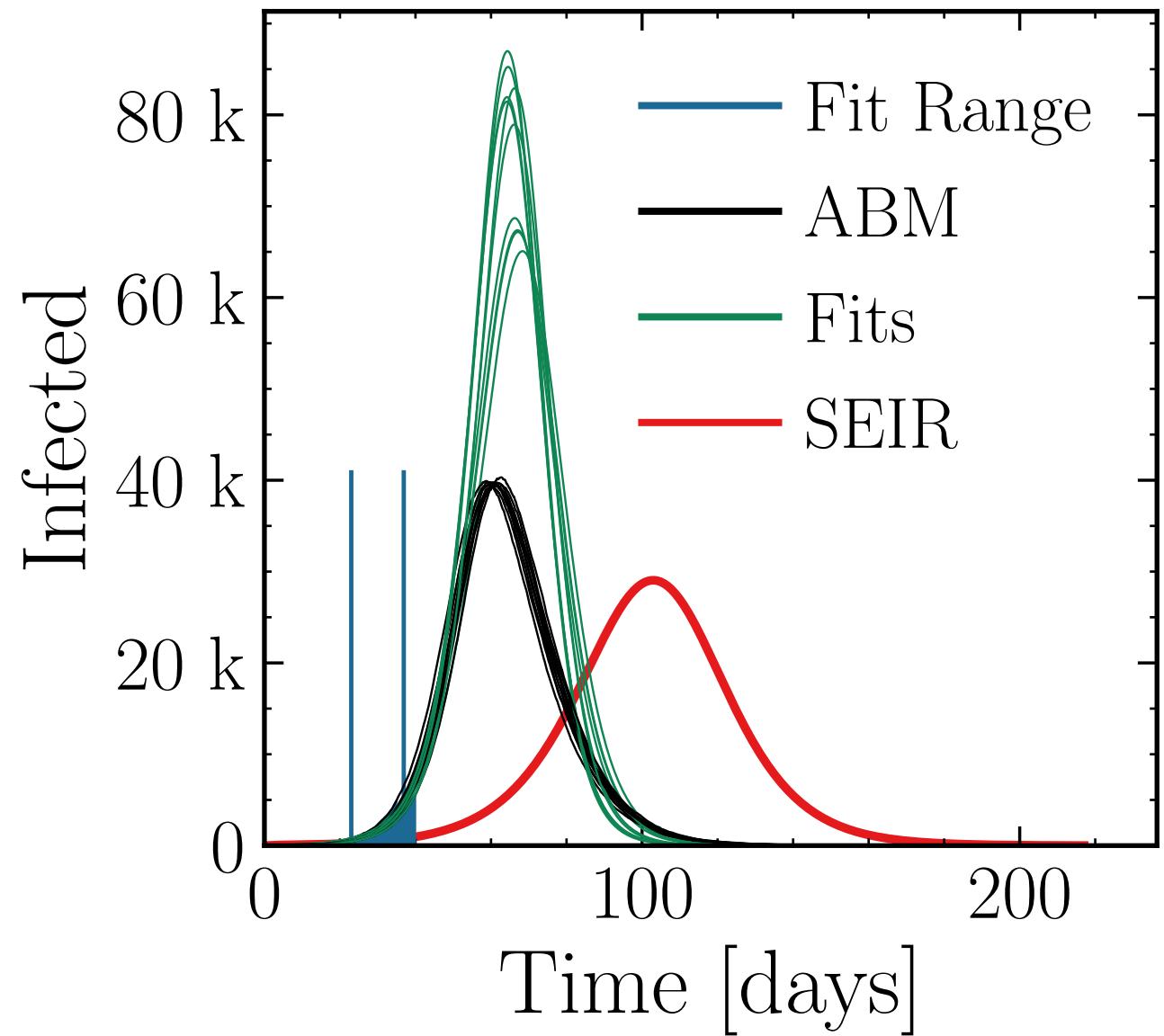
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.5$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 80_{-13}^{+5} \cdot 10^3$$

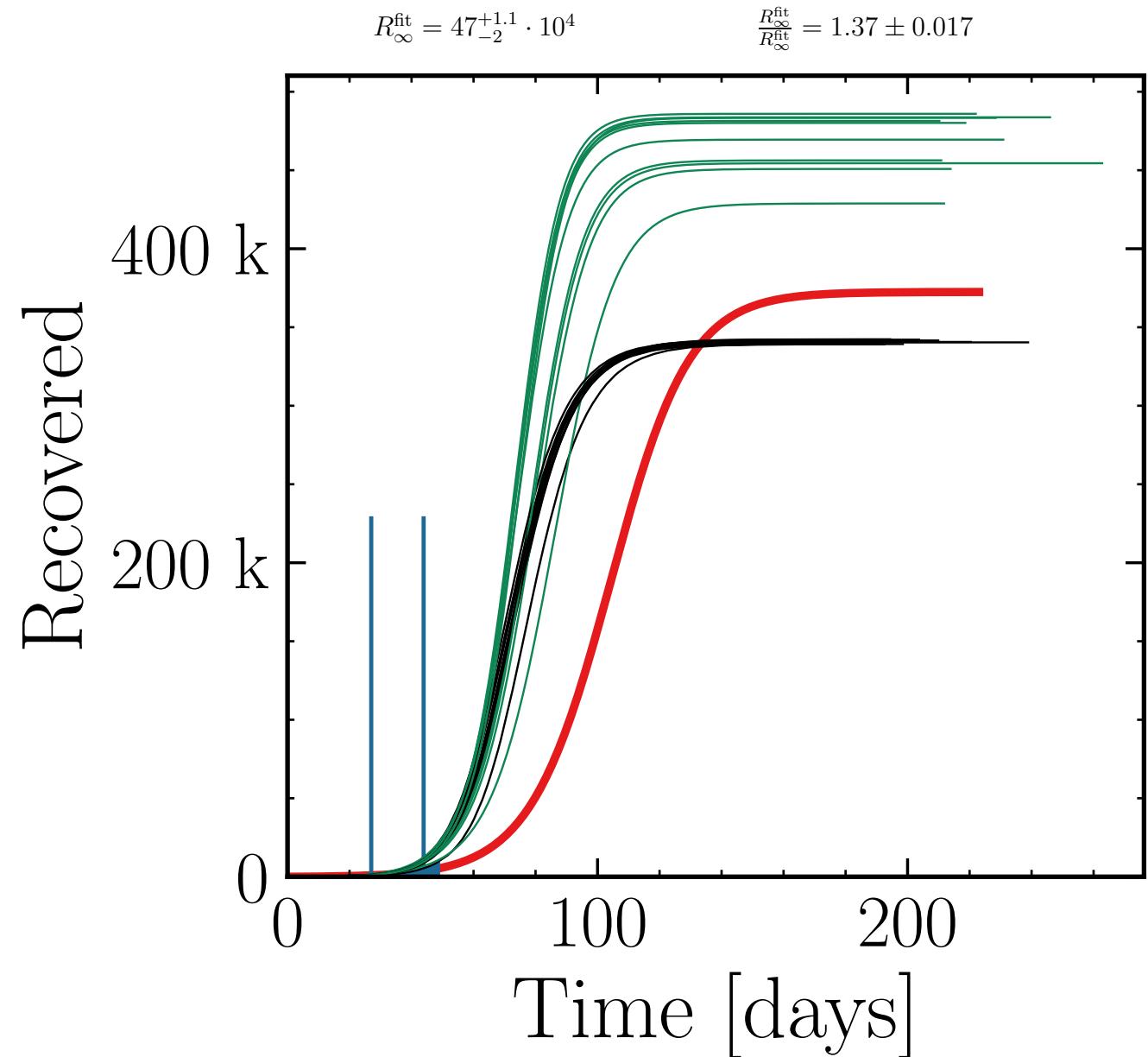
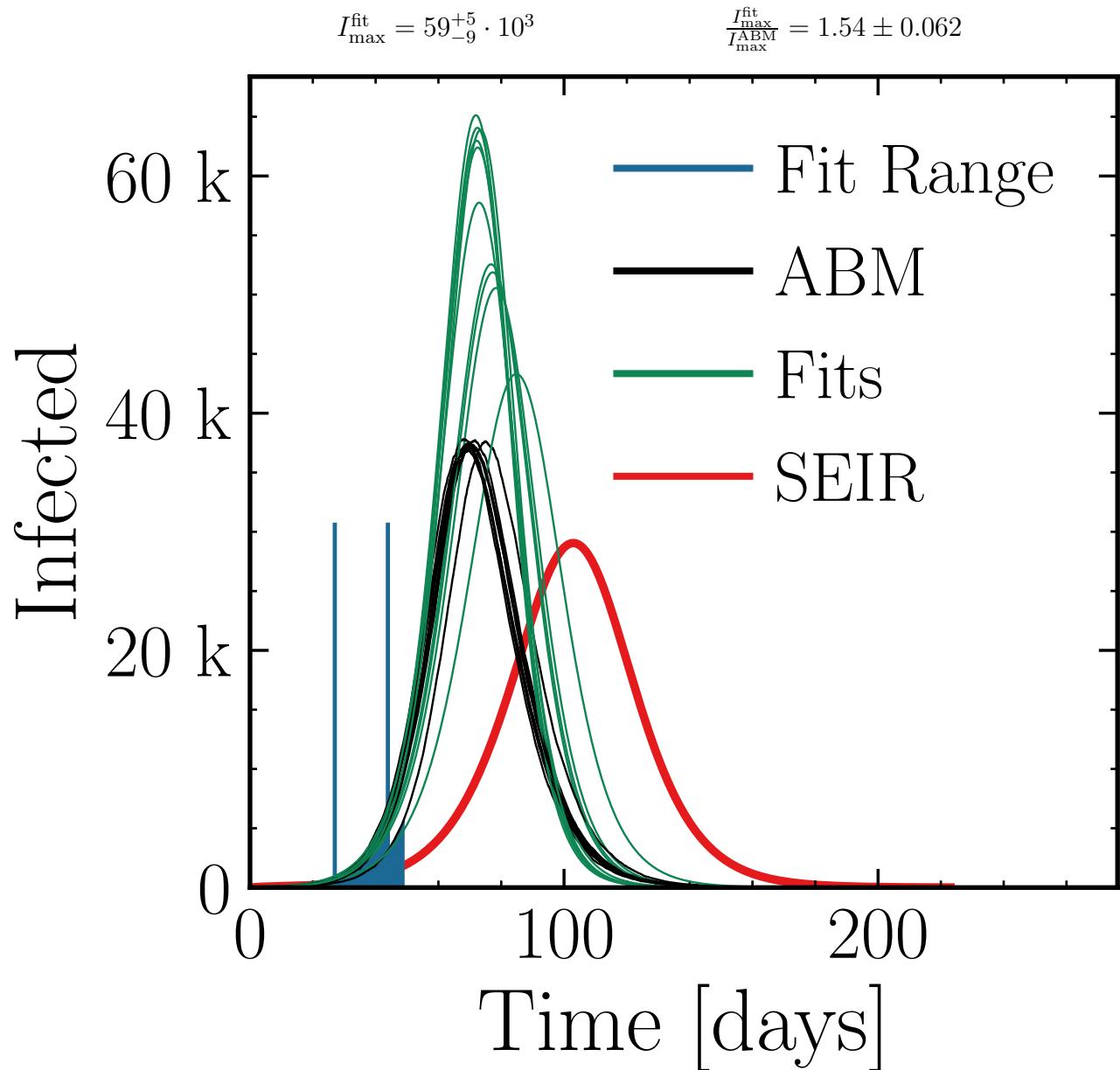
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.93 \pm 0.064$$

$$R_{\infty}^{\text{fit}} = 513_{-20}^{+7} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.56 \pm 0.014$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.6$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



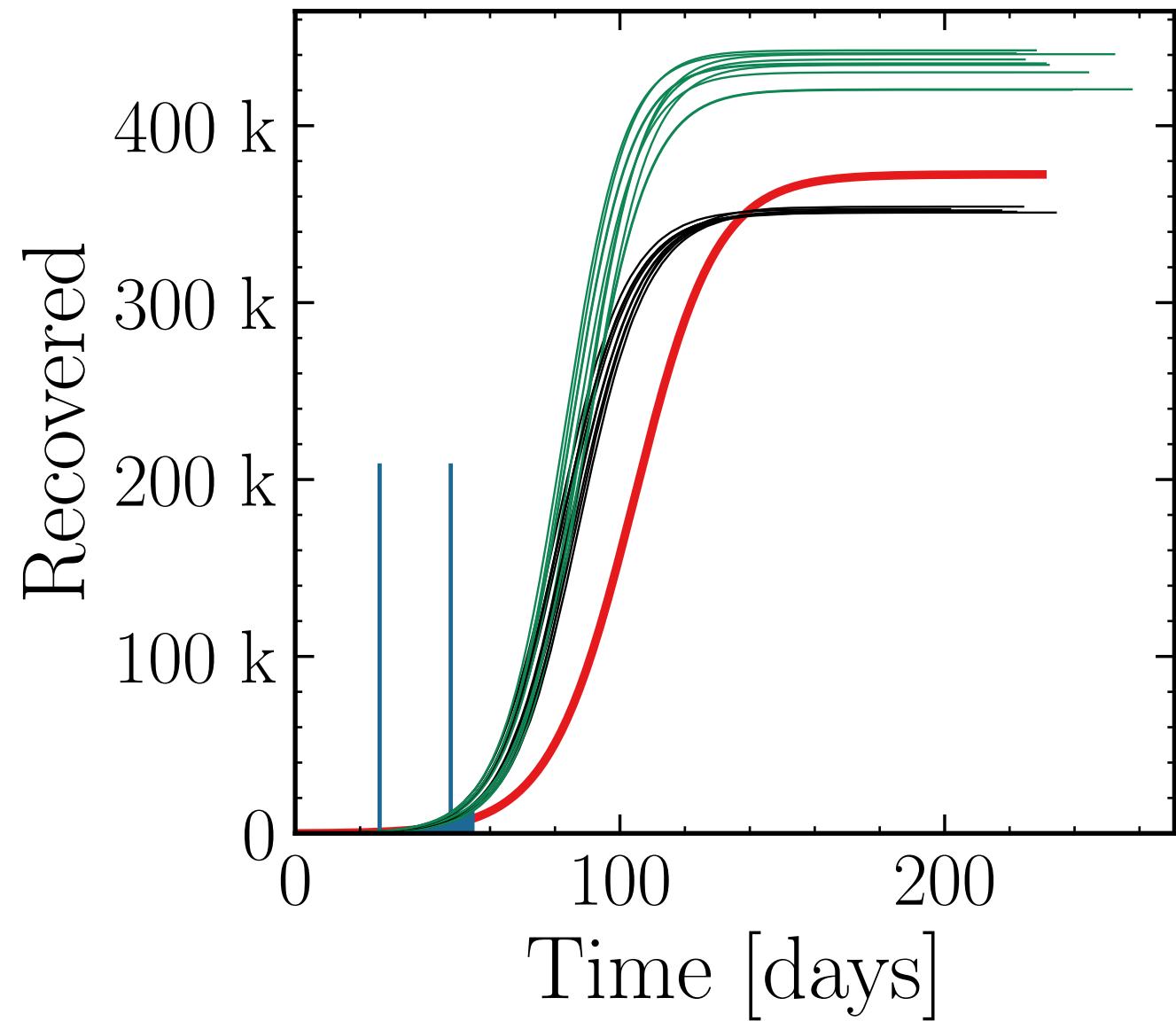
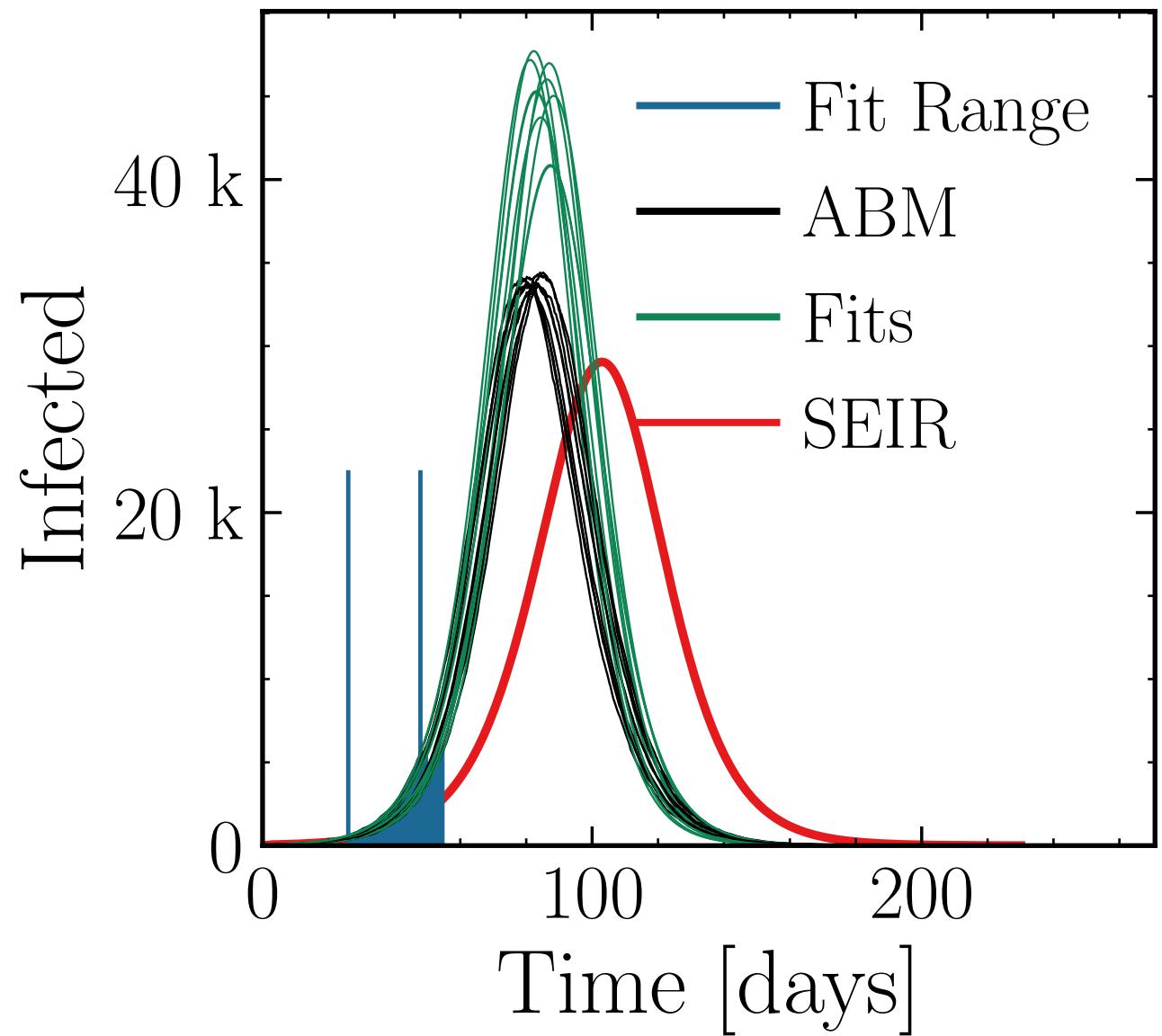
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.7$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 45^{+1.9}_{-4} \cdot 10^3$$

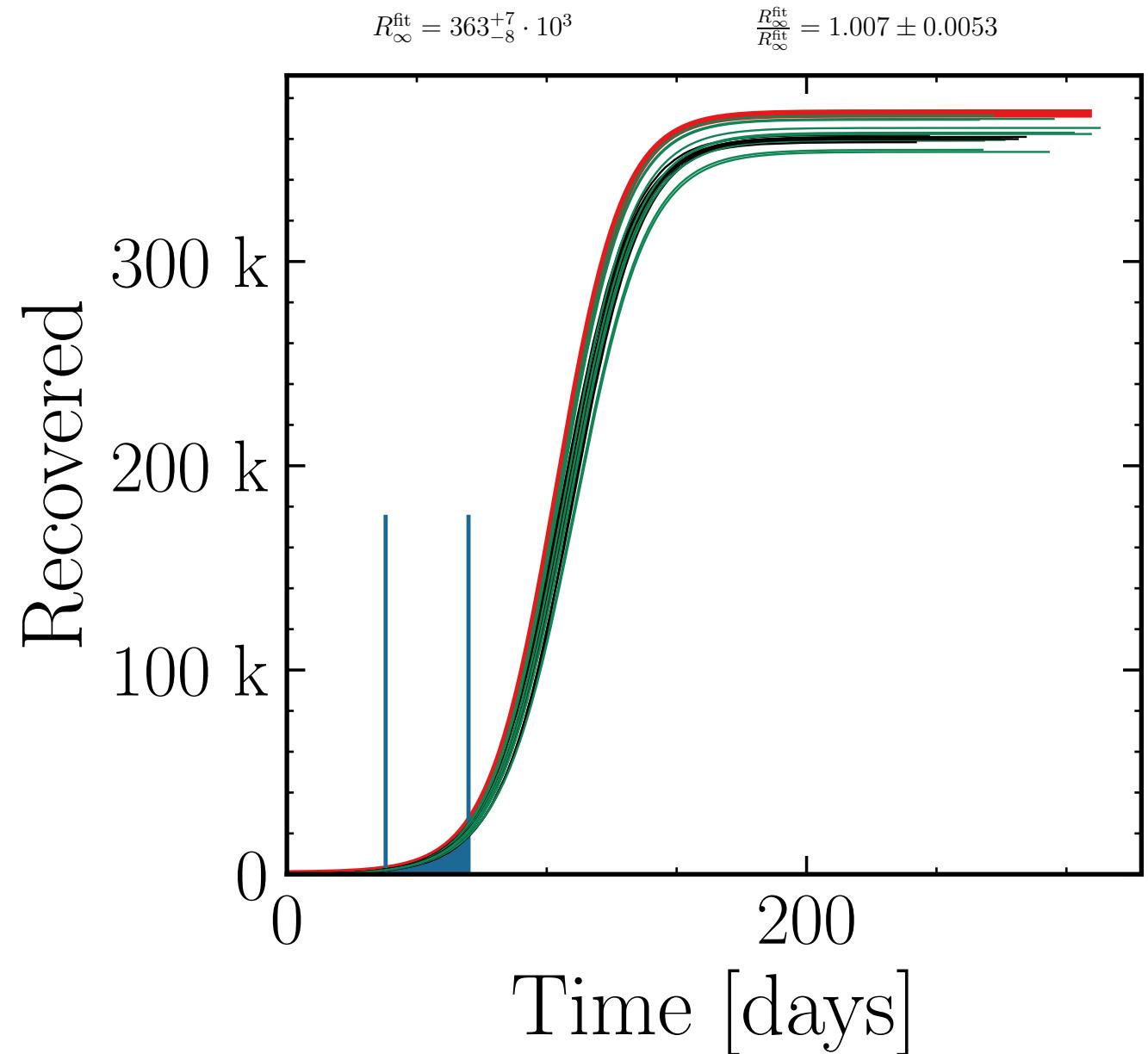
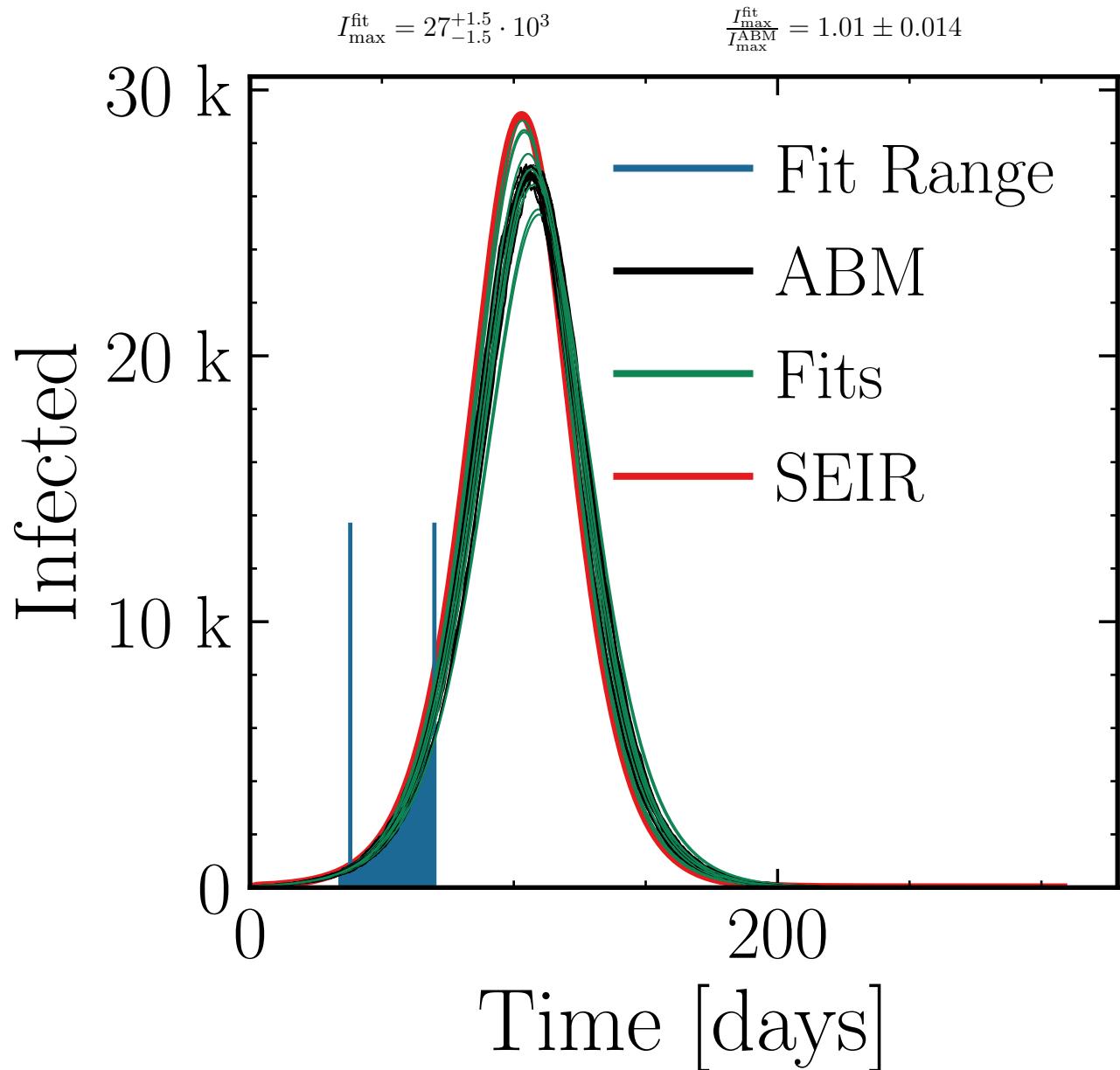
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.32 \pm 0.020$$

$$R_{\infty}^{\text{fit}} = 435^{+6}_{-15} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.233 \pm 0.0064$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.95$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10



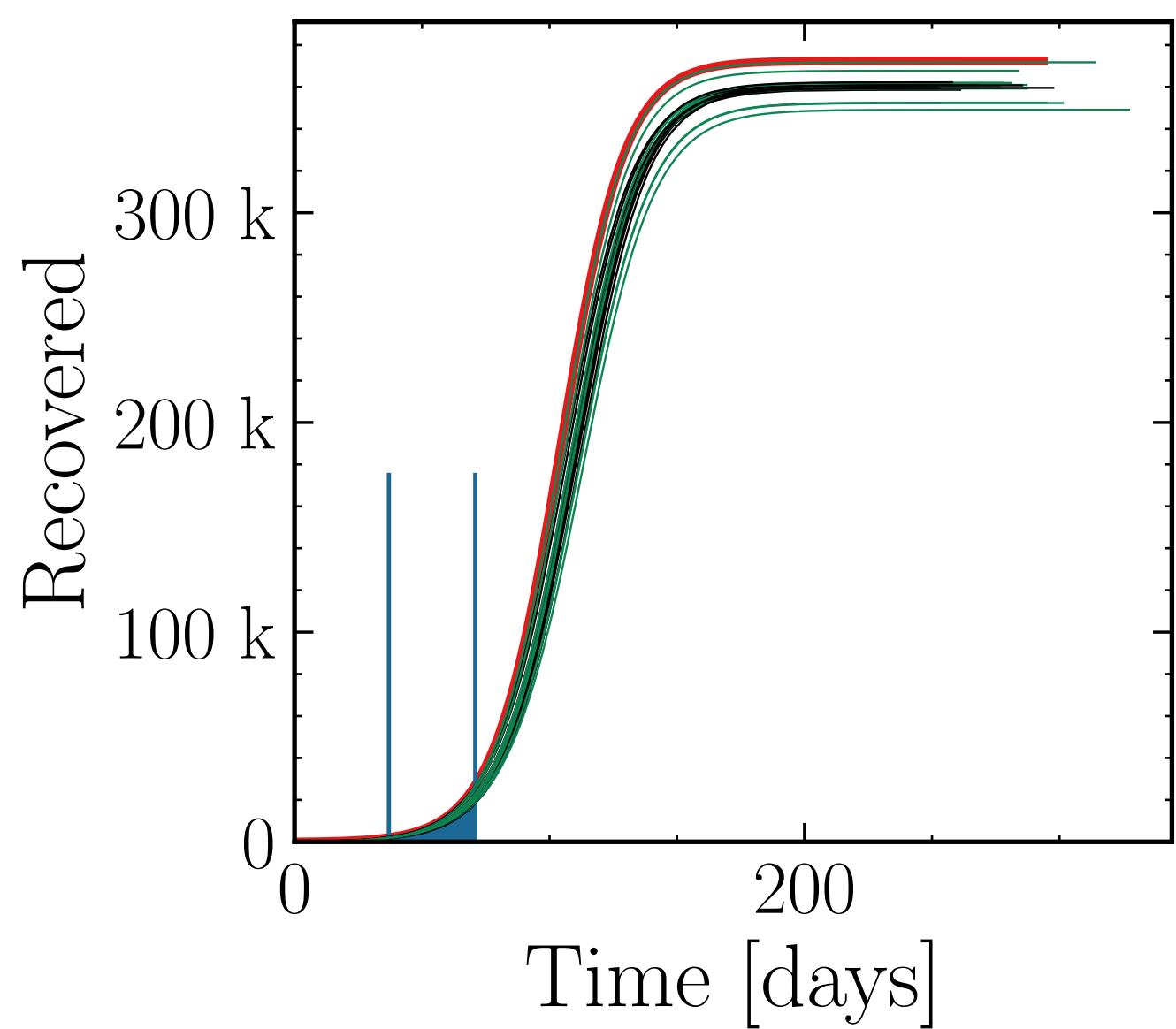
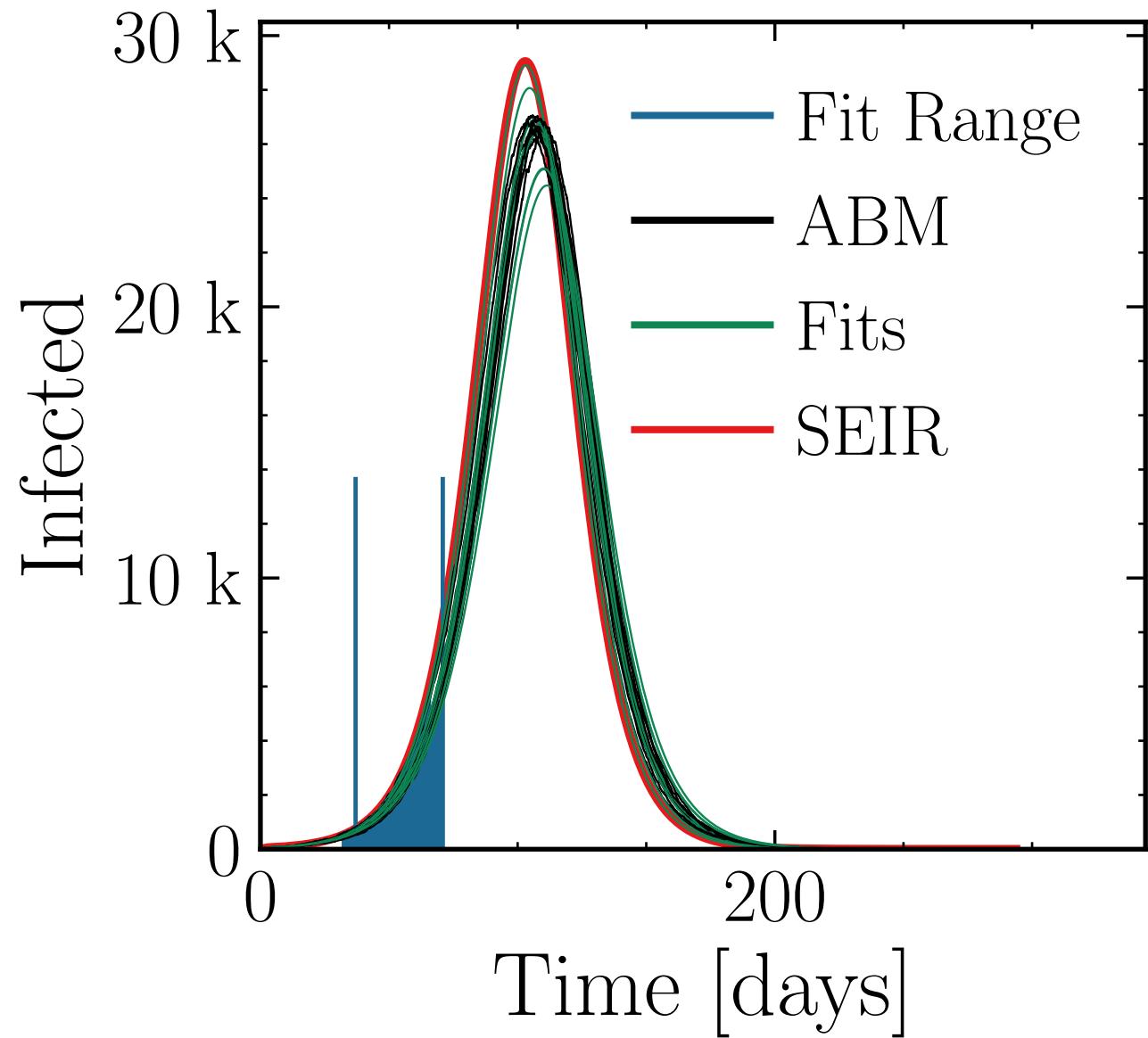
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.99$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 27^{+1.4}_{-1.6} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.99 \pm 0.02$$

$$R_{\infty}^{\text{fit}} = 361^{+7}_{-8} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 0.999 \pm 0.006$$



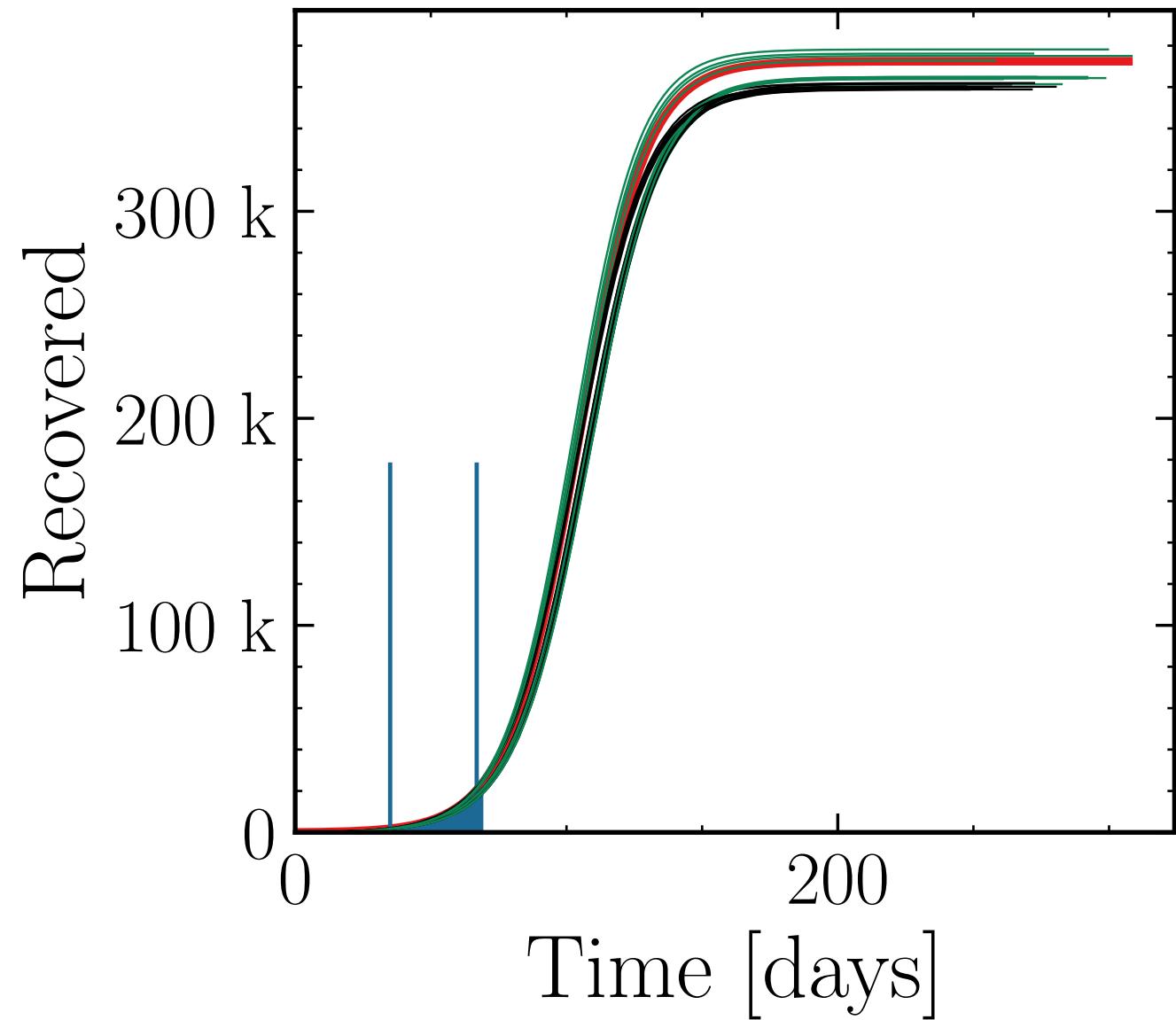
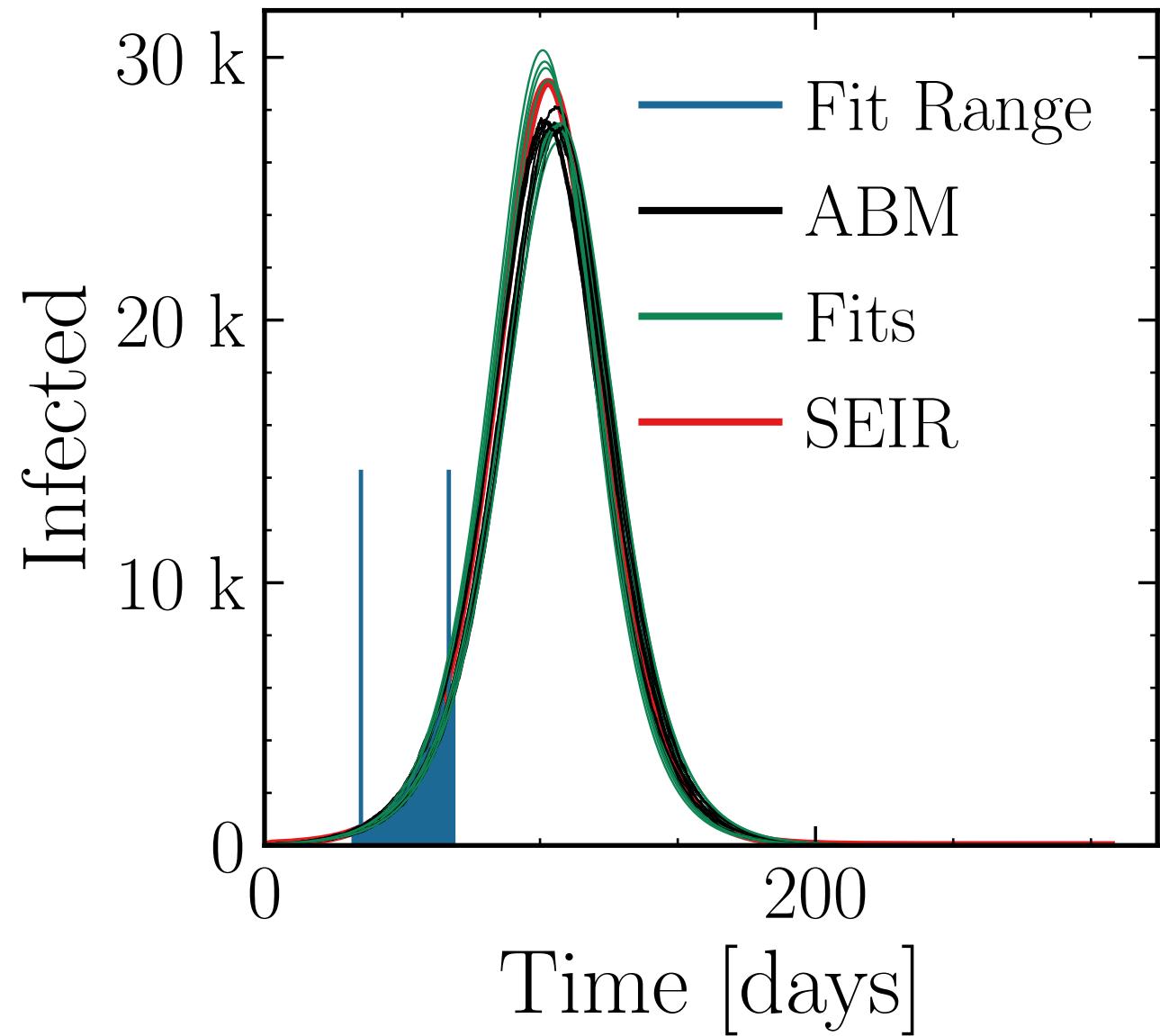
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.9$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 27.5^{+2}_{-0.3} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.03 \pm 0.014$$

$$R_{\infty}^{\text{fit}} = 36.5^{+1.1}_{-0.14} \cdot 10^4$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.023 \pm 0.0048$$



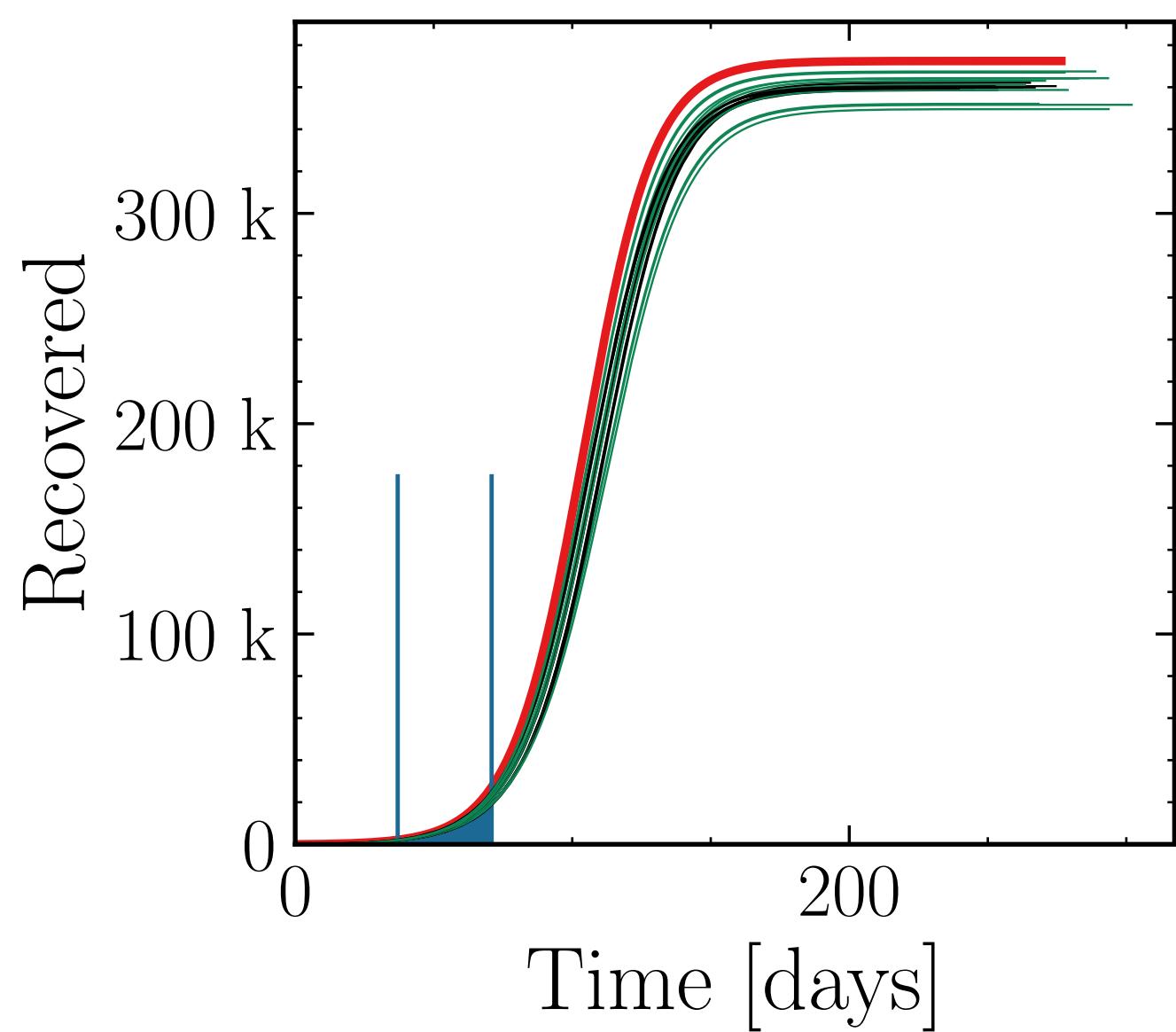
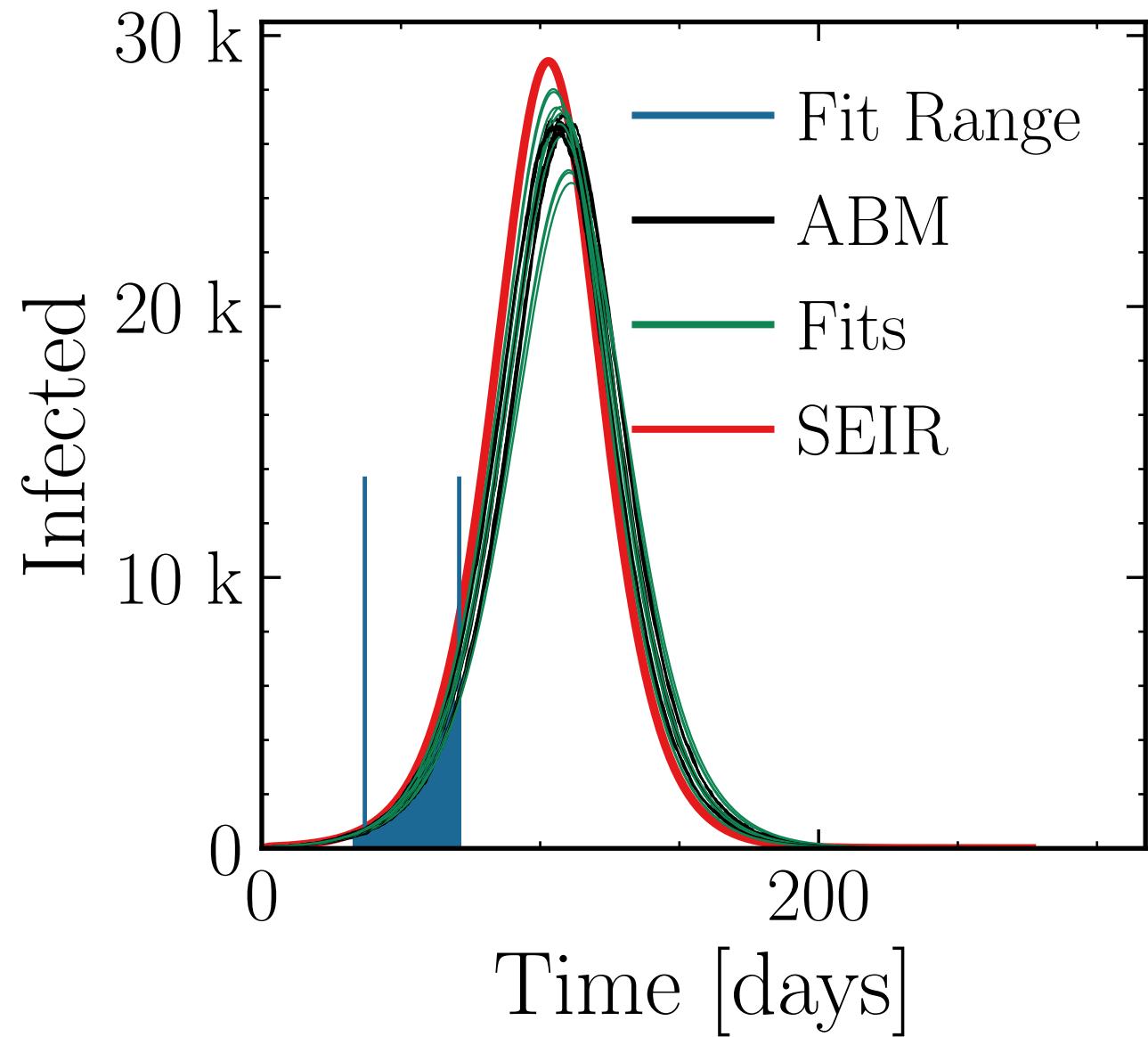
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 1.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 27^{+1.1}_{-1.8} \cdot 10^3$$

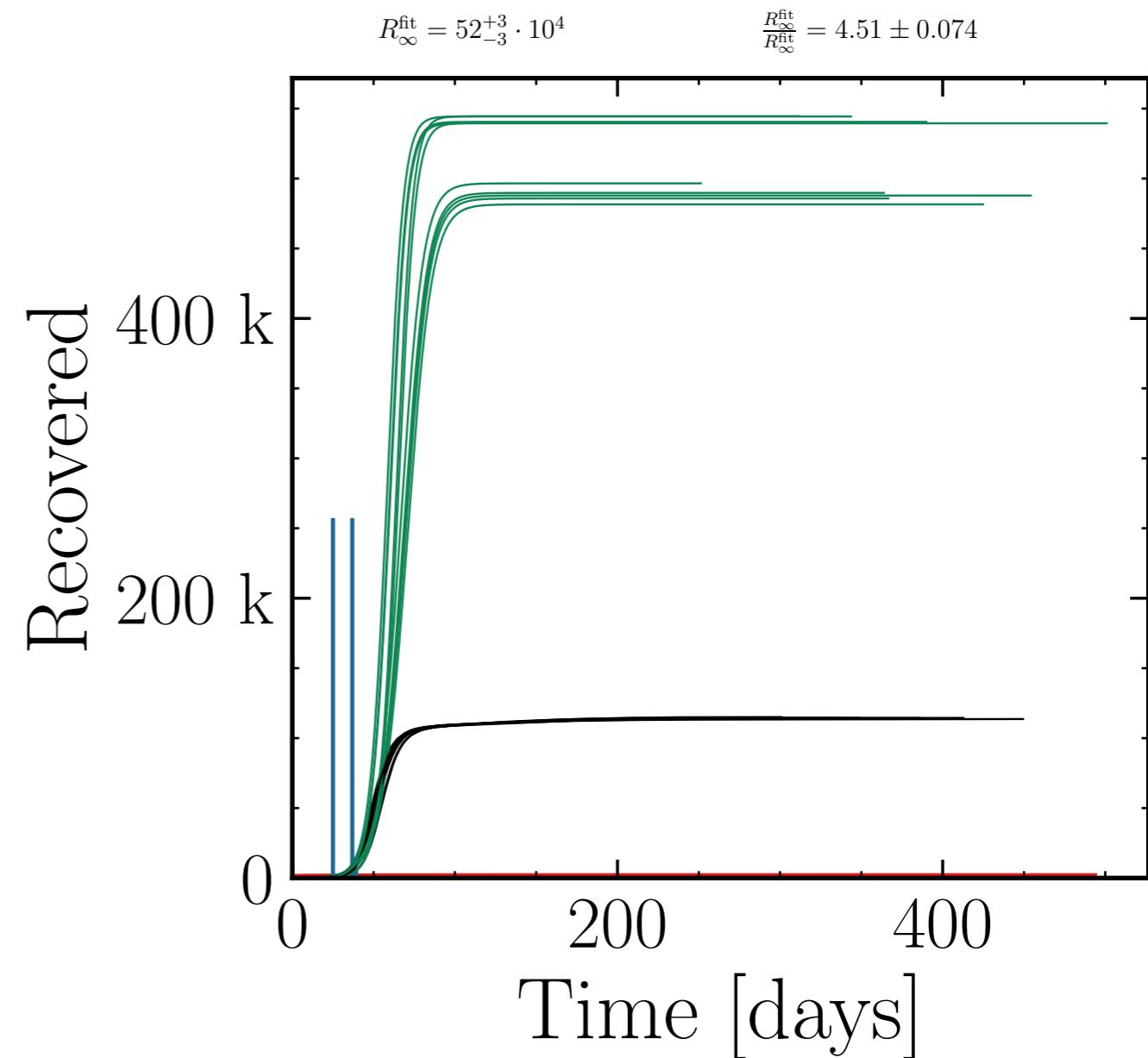
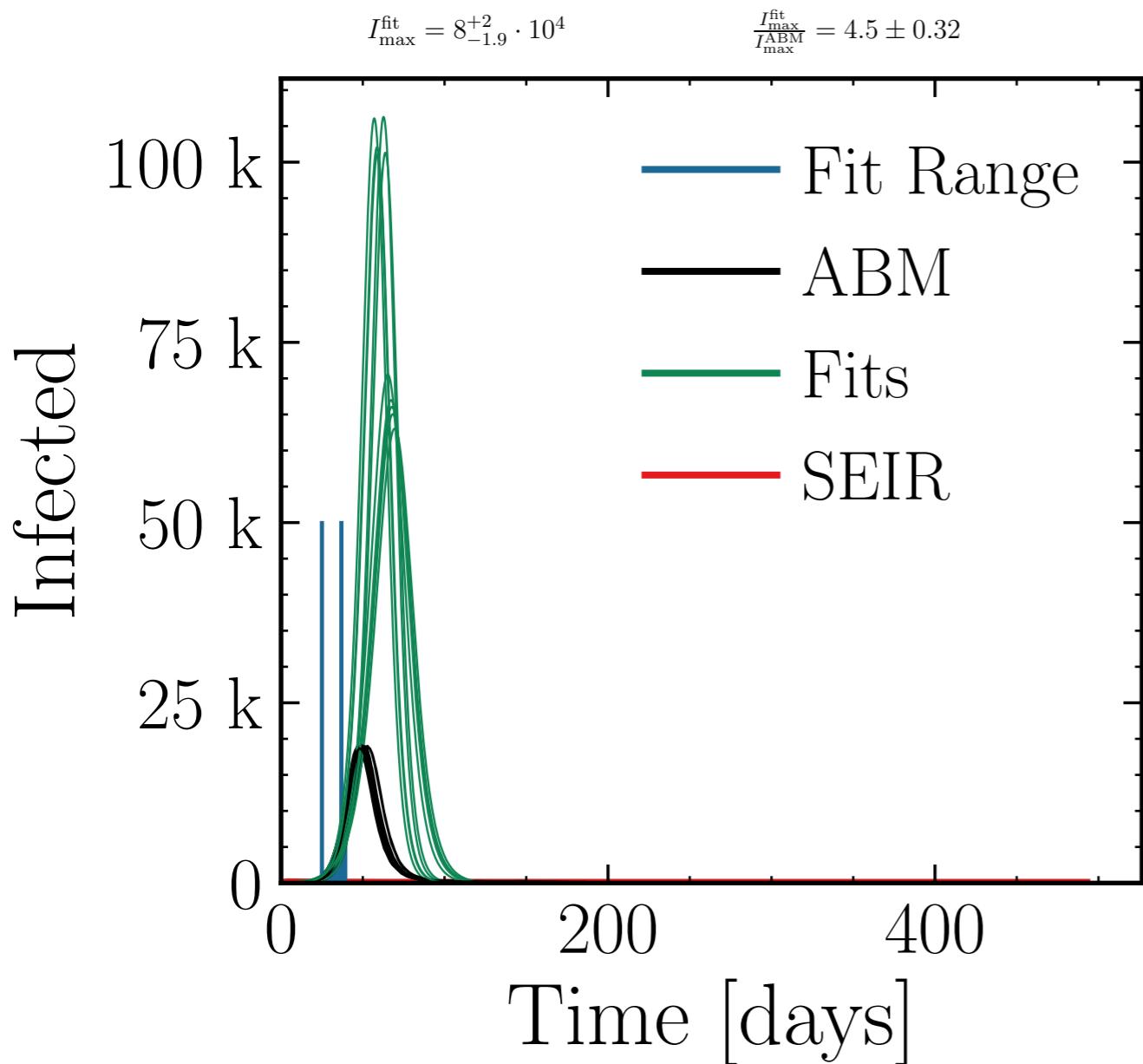
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.99 \pm 0.01$$

$$R_{\infty}^{\text{fit}} = 361^{+6}_{-10} \cdot 10^3$$

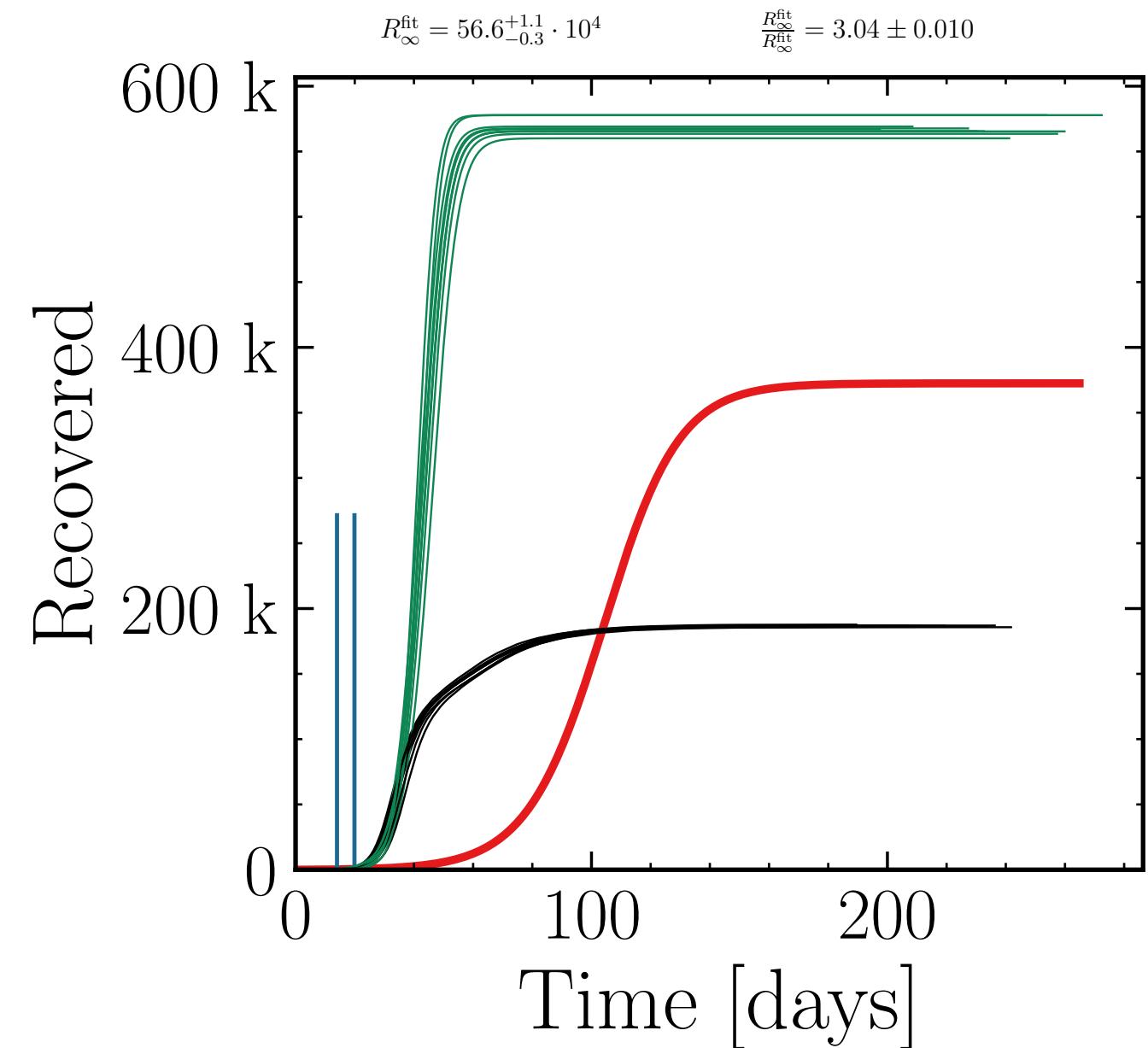
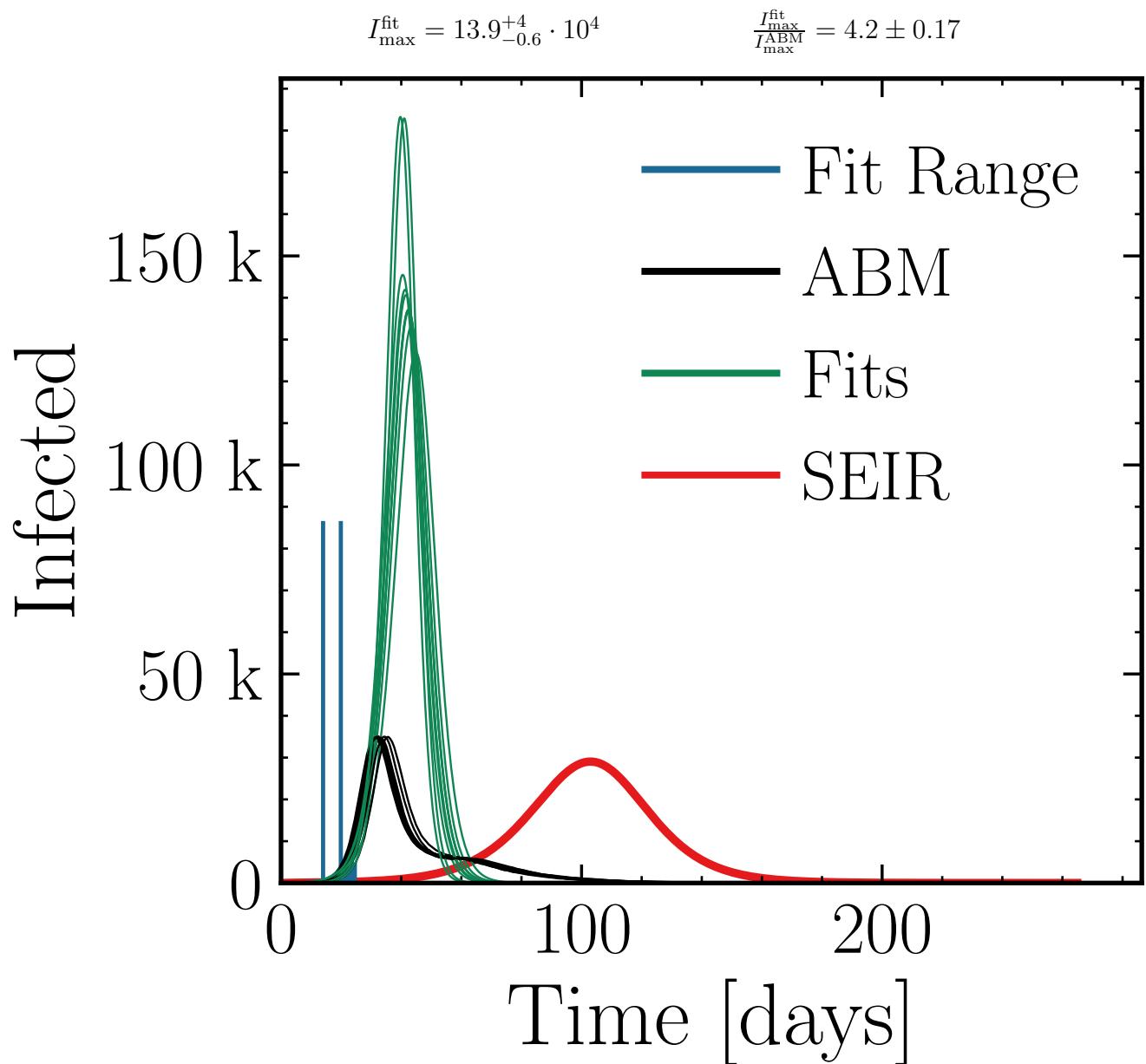
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 0.999 \pm 0.005$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



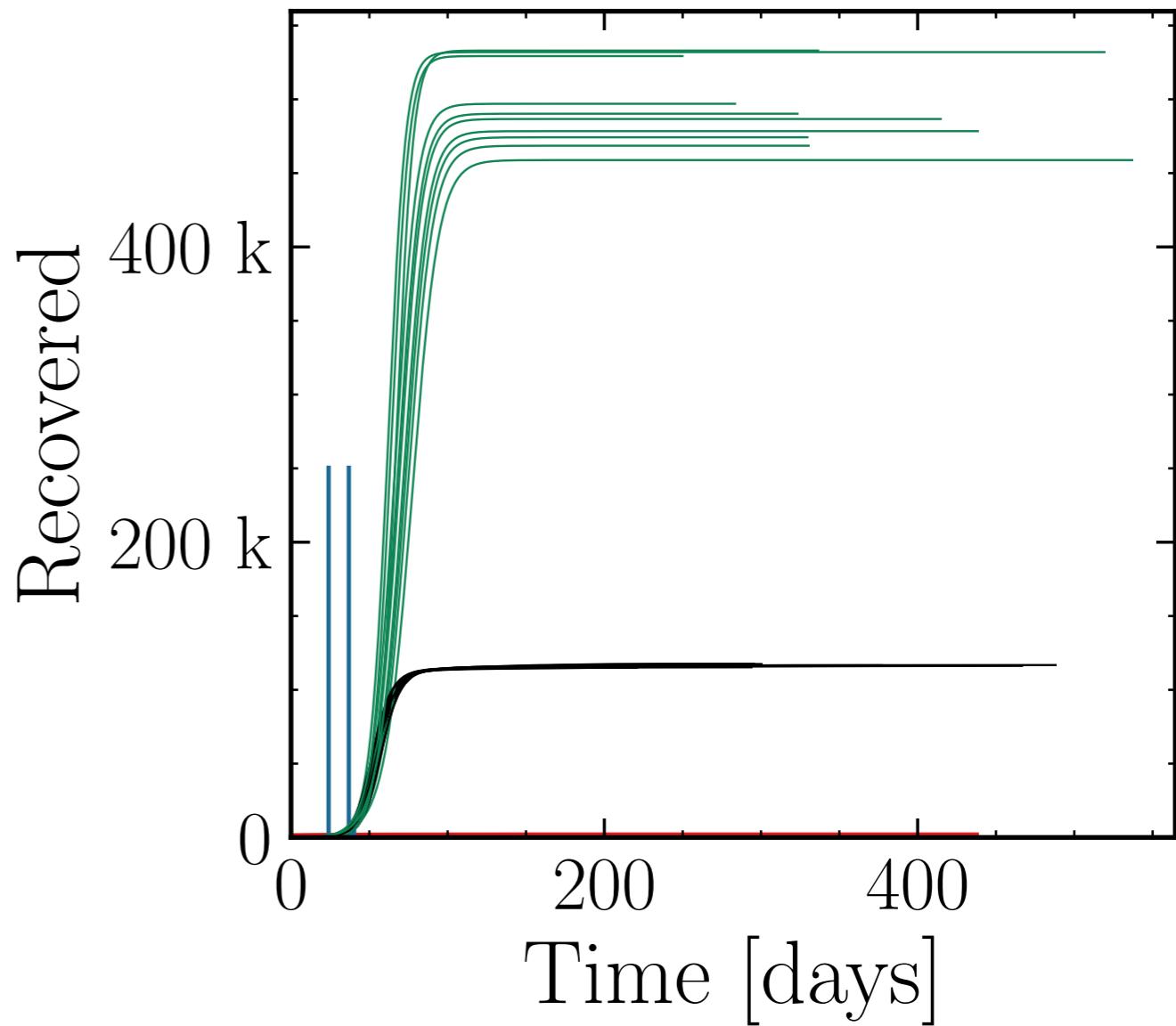
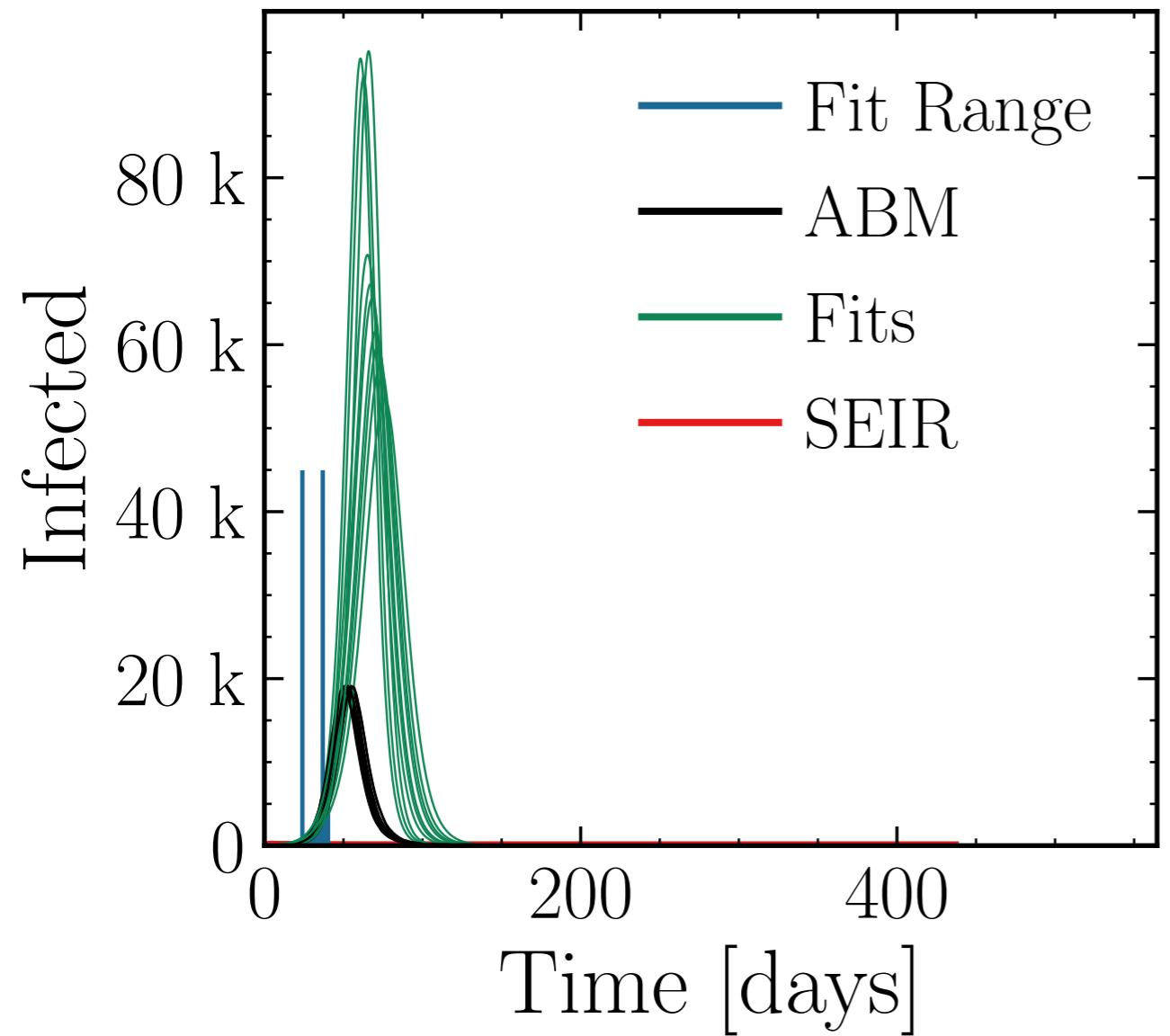
$N_{\text{tot}} = 580K$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 6.6^{+3}_{-0.9} \cdot 10^4$$

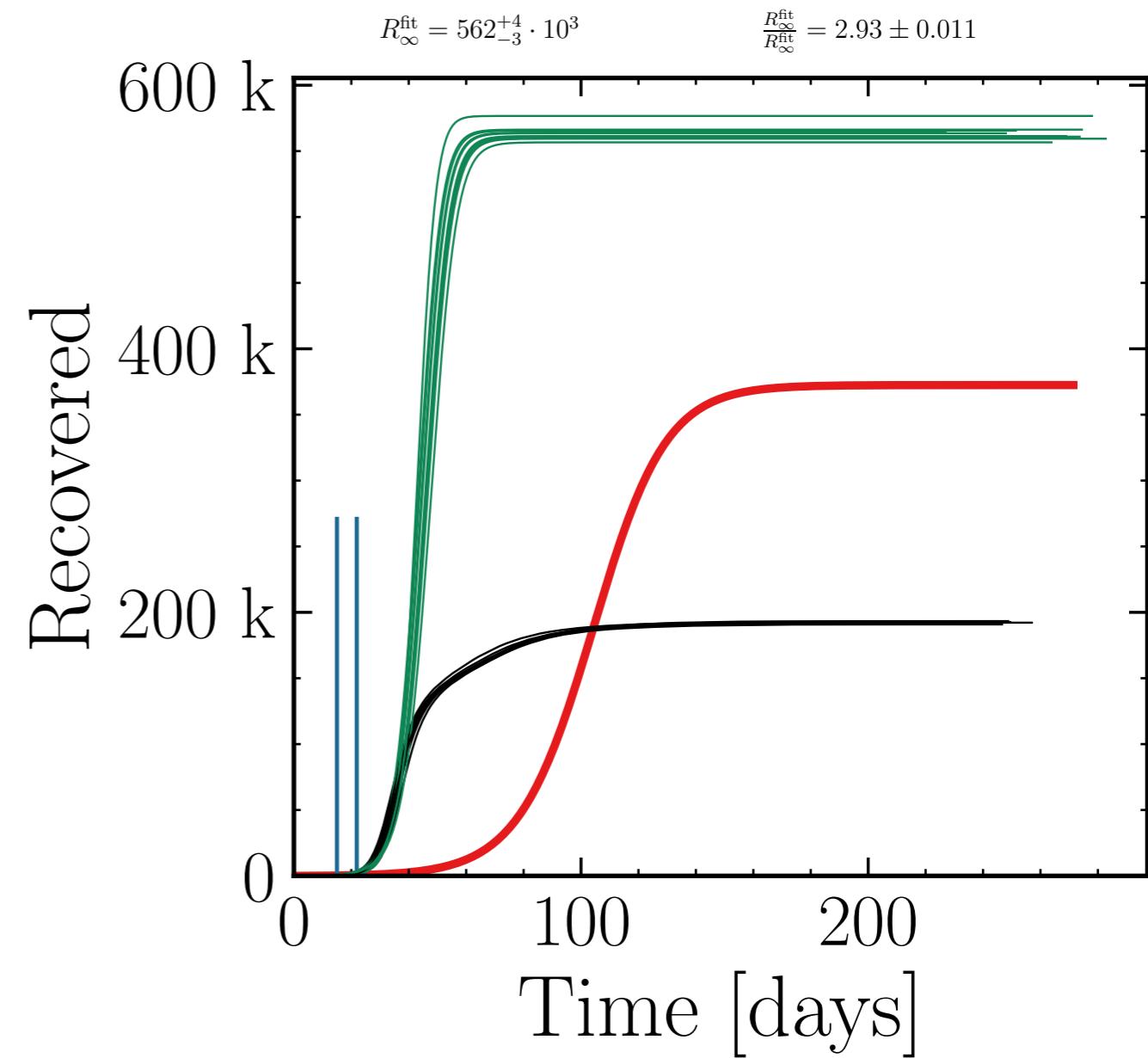
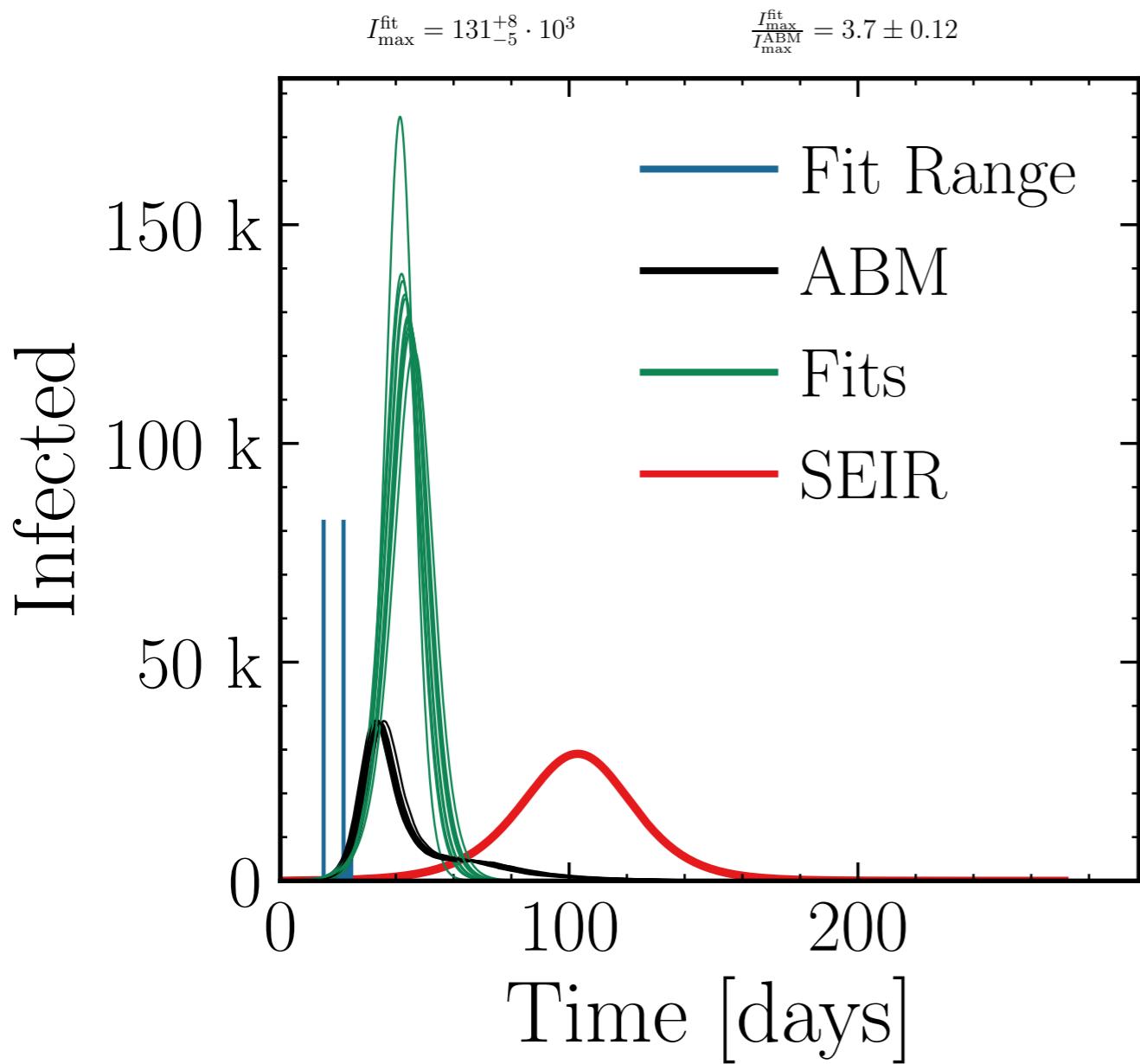
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.8 \pm 0.25$$

$$R_{\infty}^{\text{fit}} = 49^{+4}_{-2.0} \cdot 10^4$$

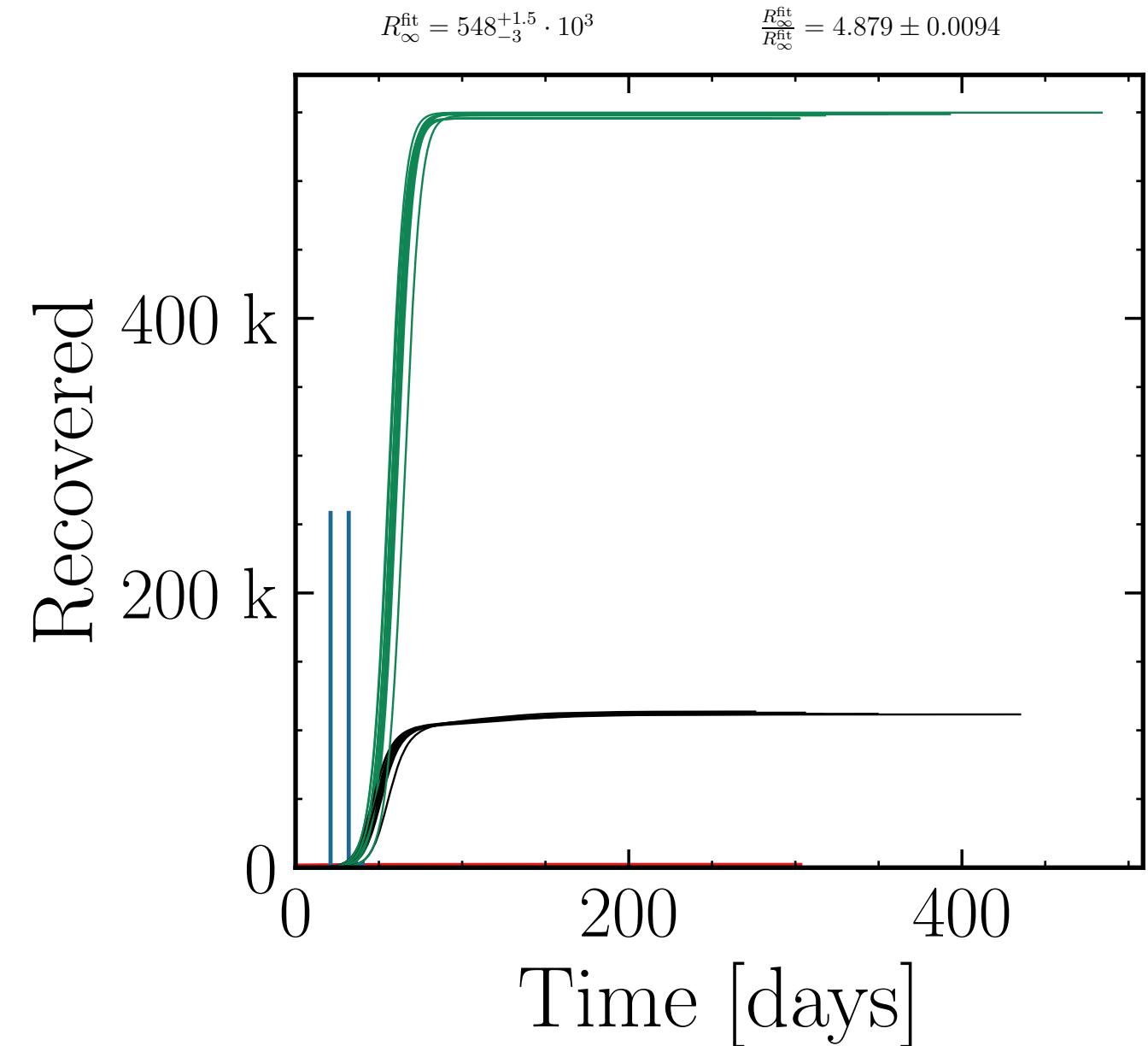
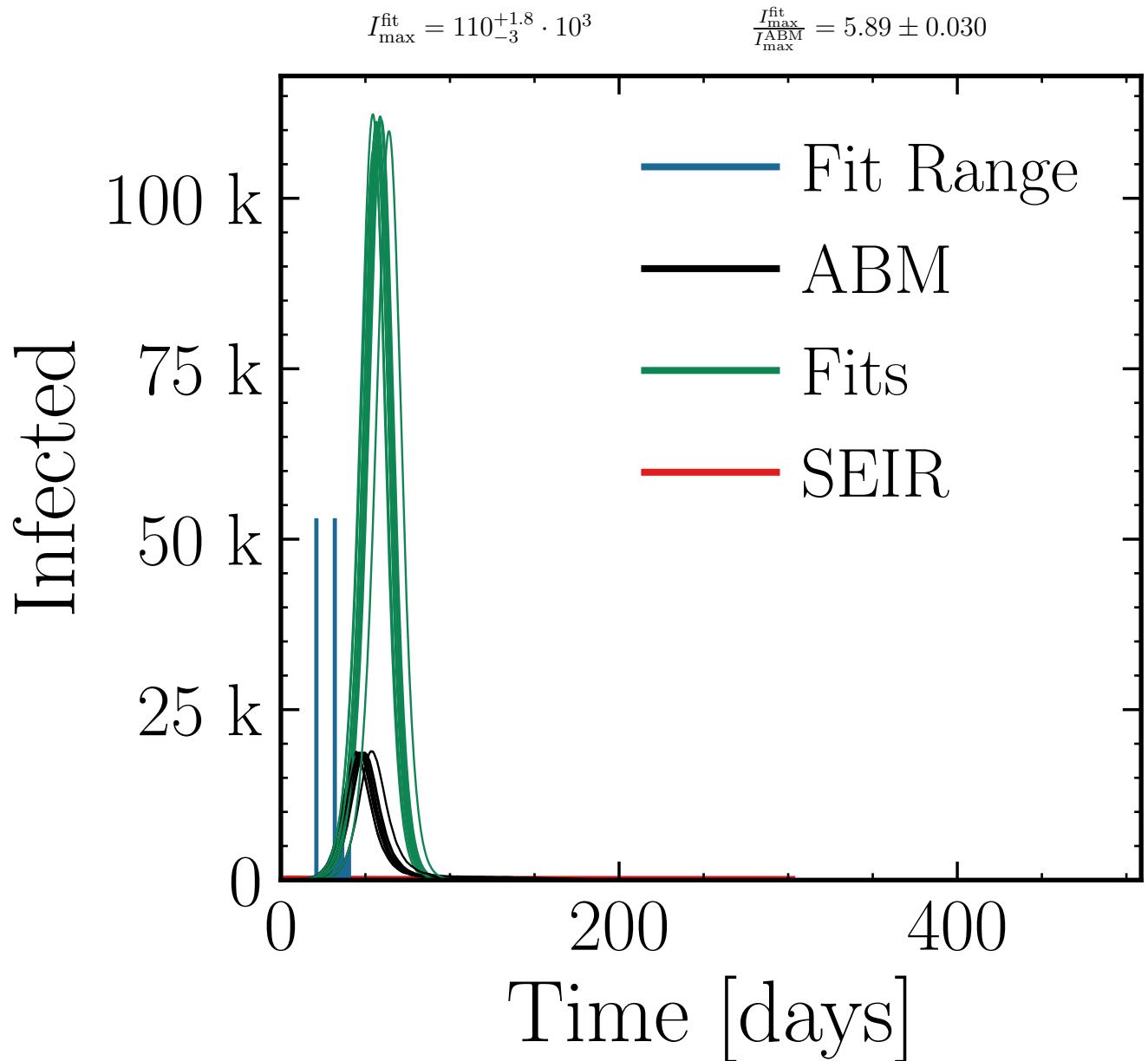
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 4.25 \pm 0.073$$



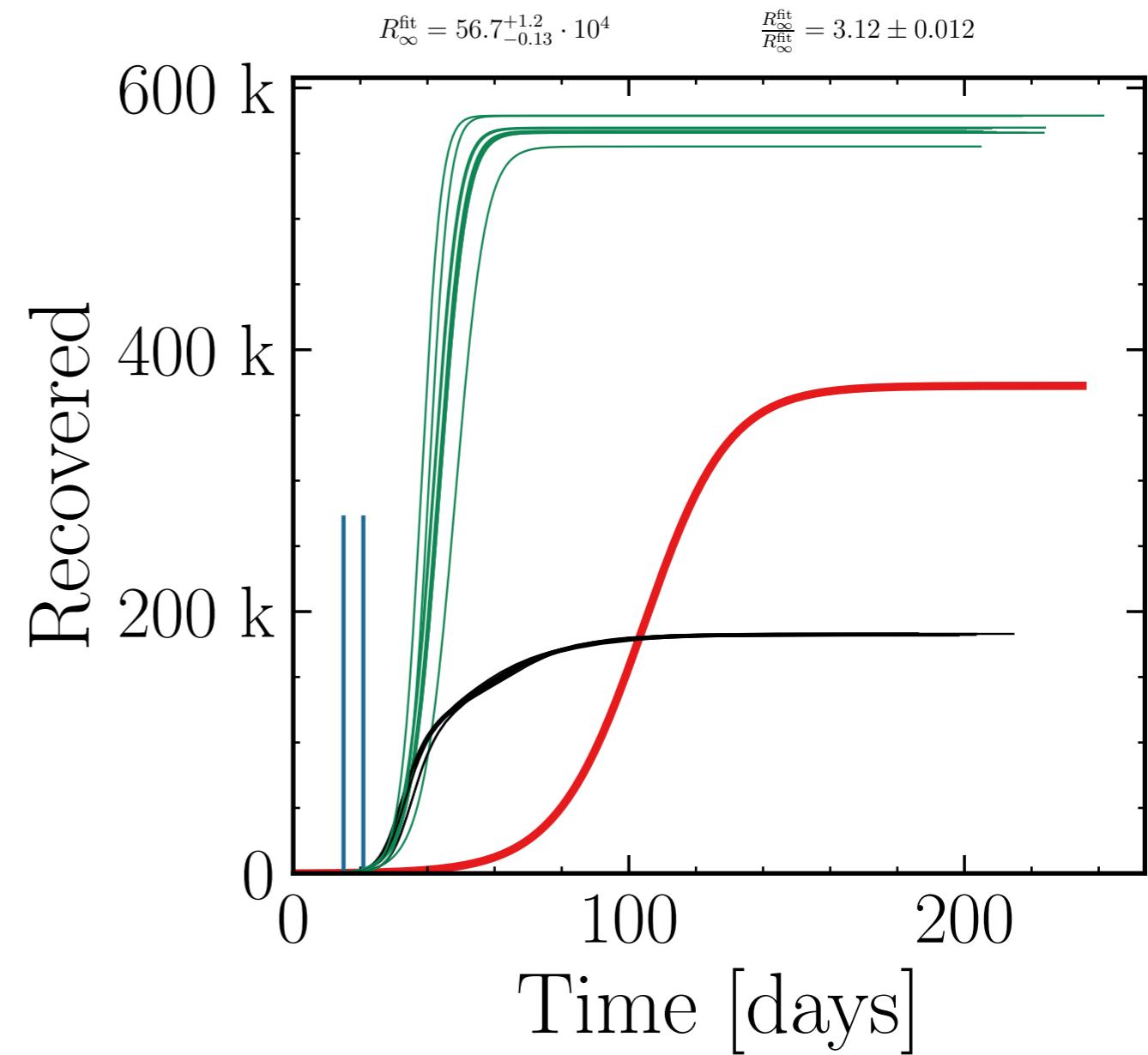
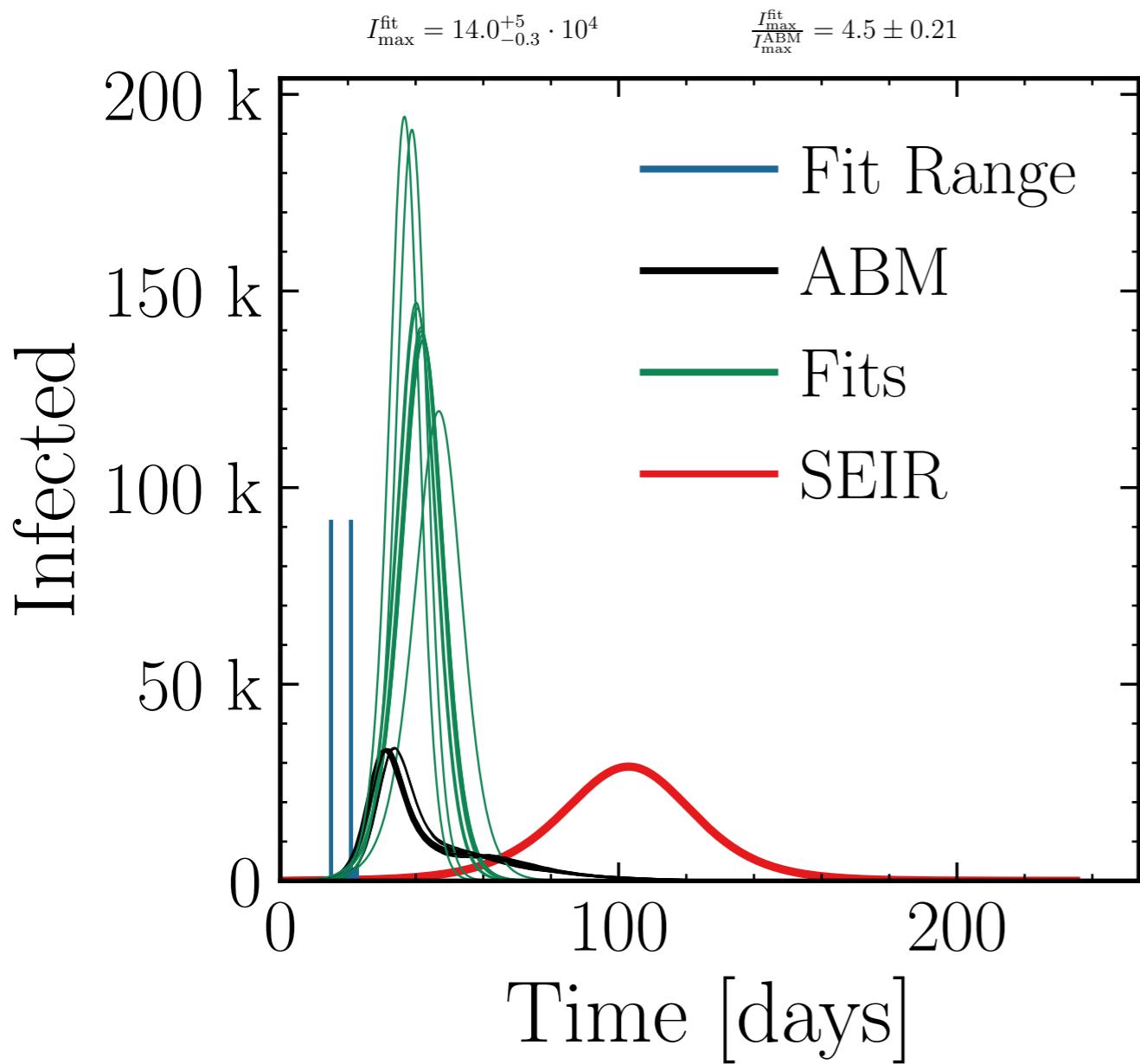
$N_{\text{tot}} = 580K$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



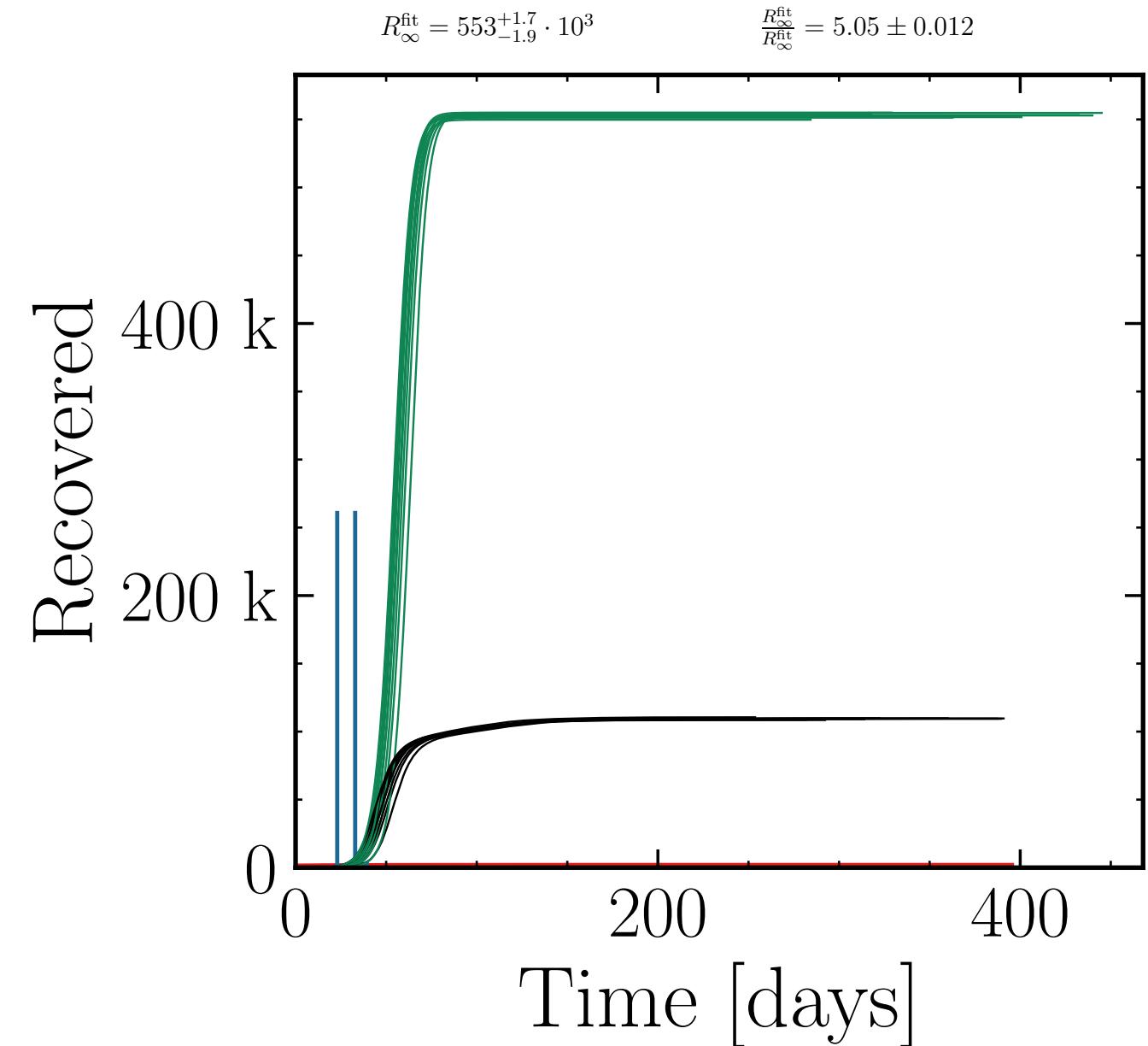
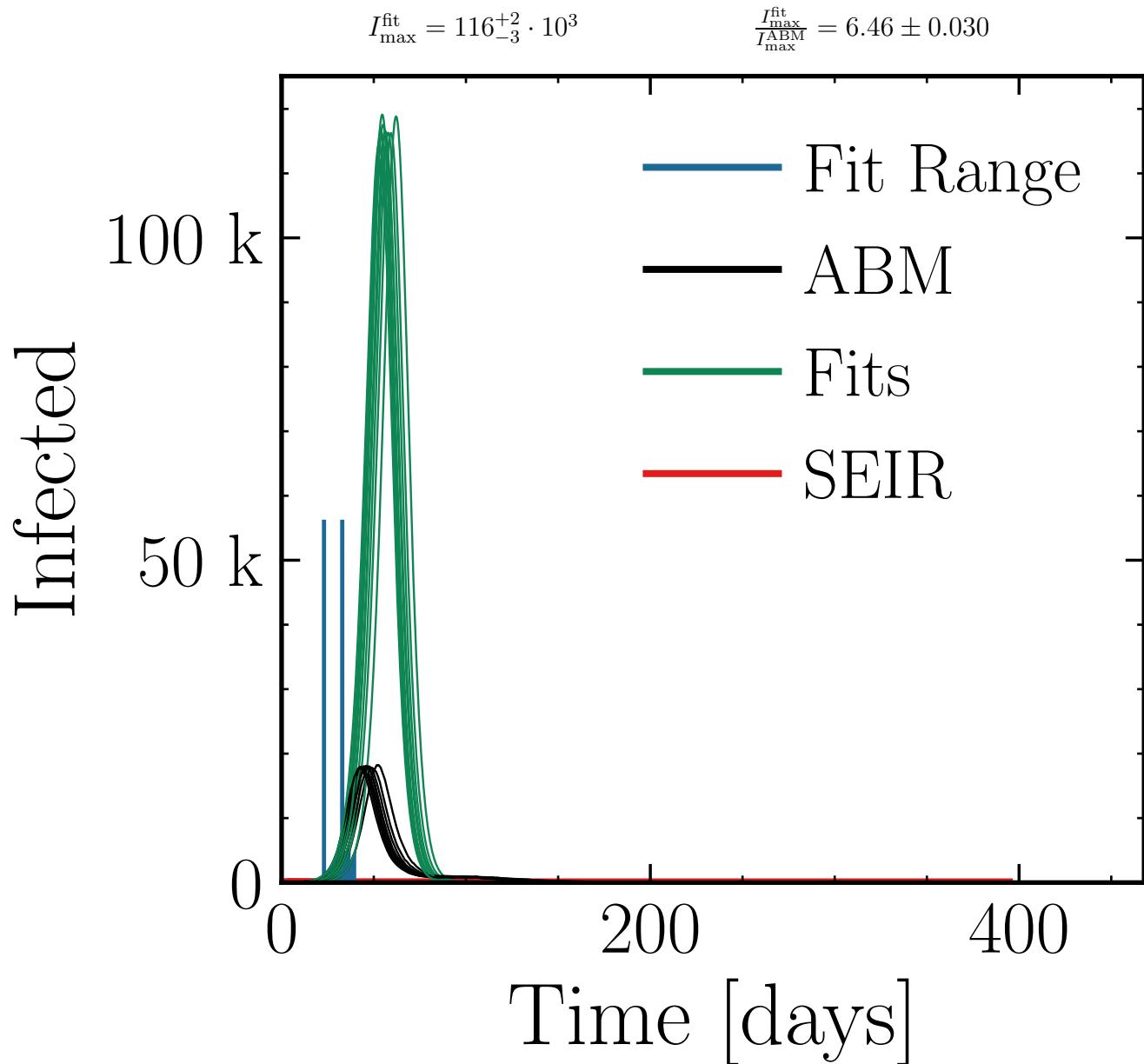
$N_{\text{tot}} = 580K$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



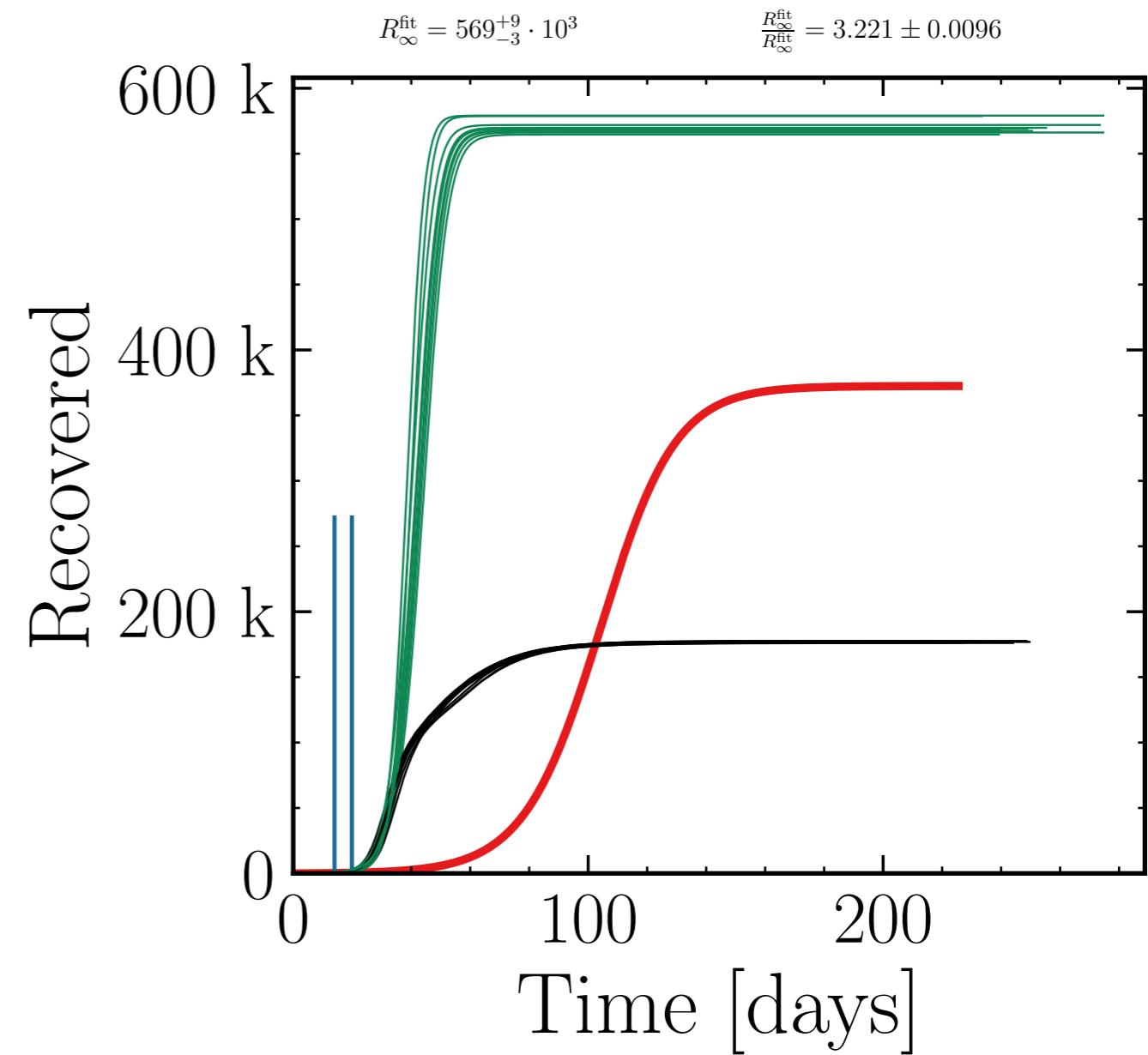
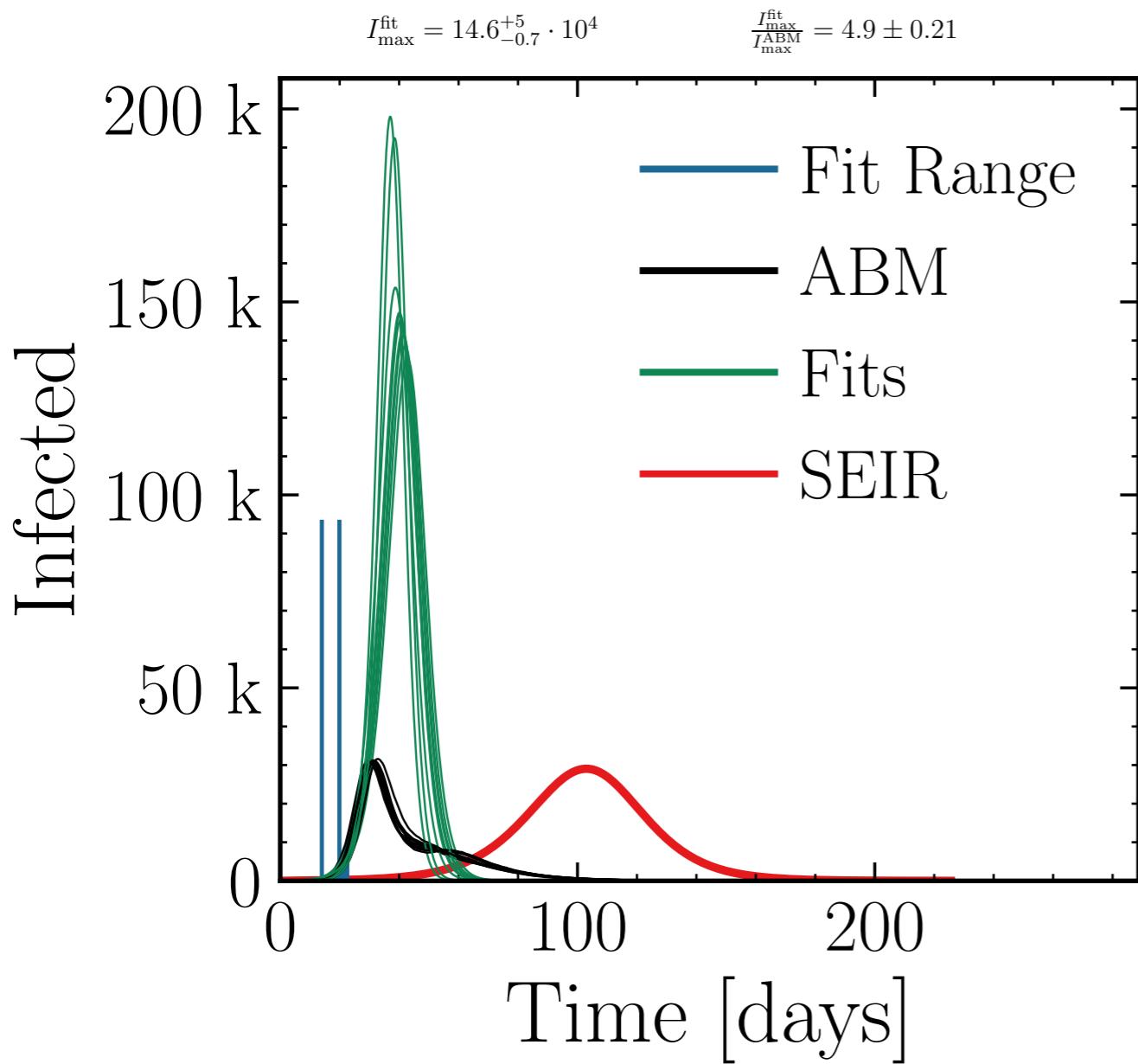
$N_{\text{tot}} = 580K$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



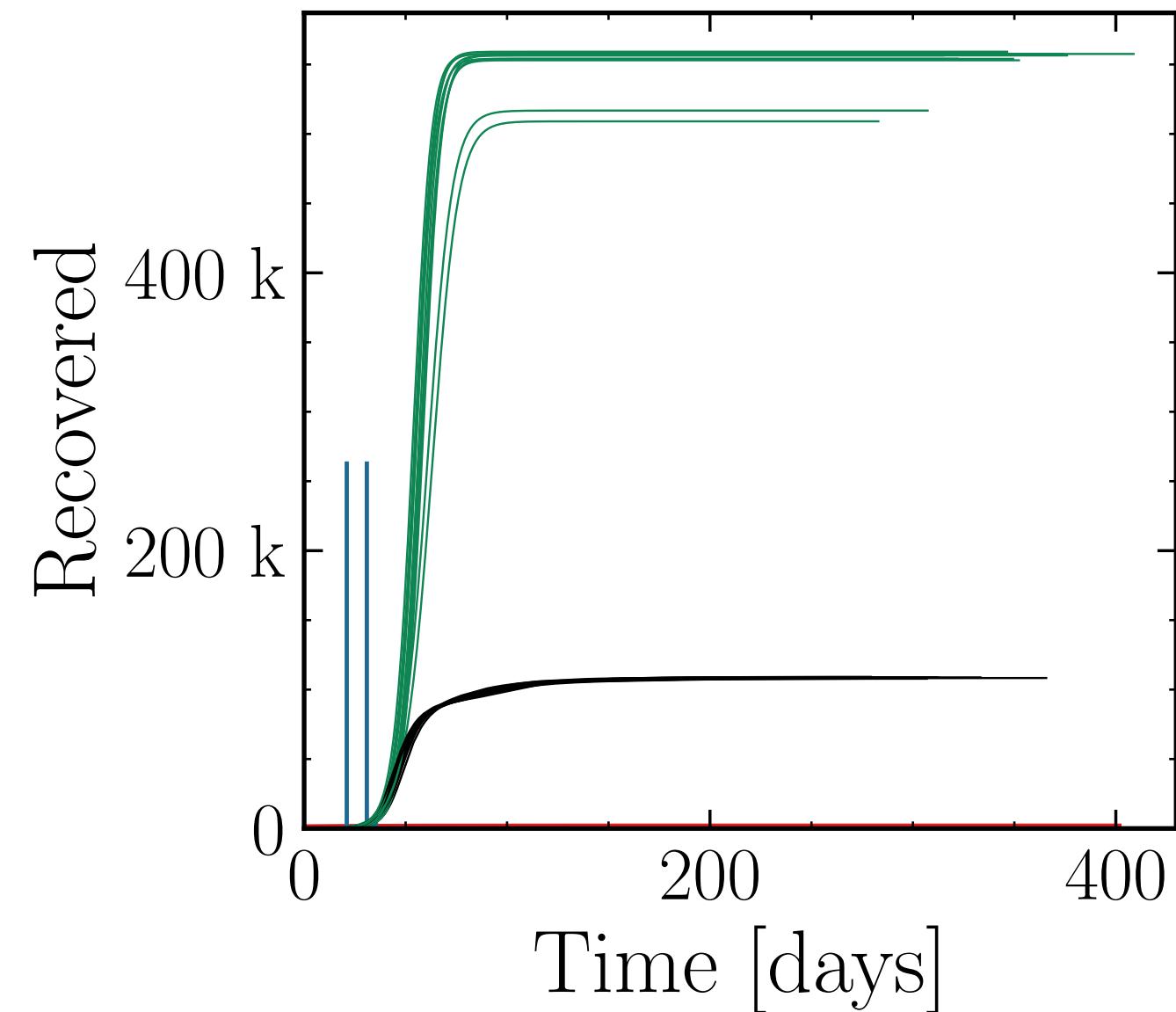
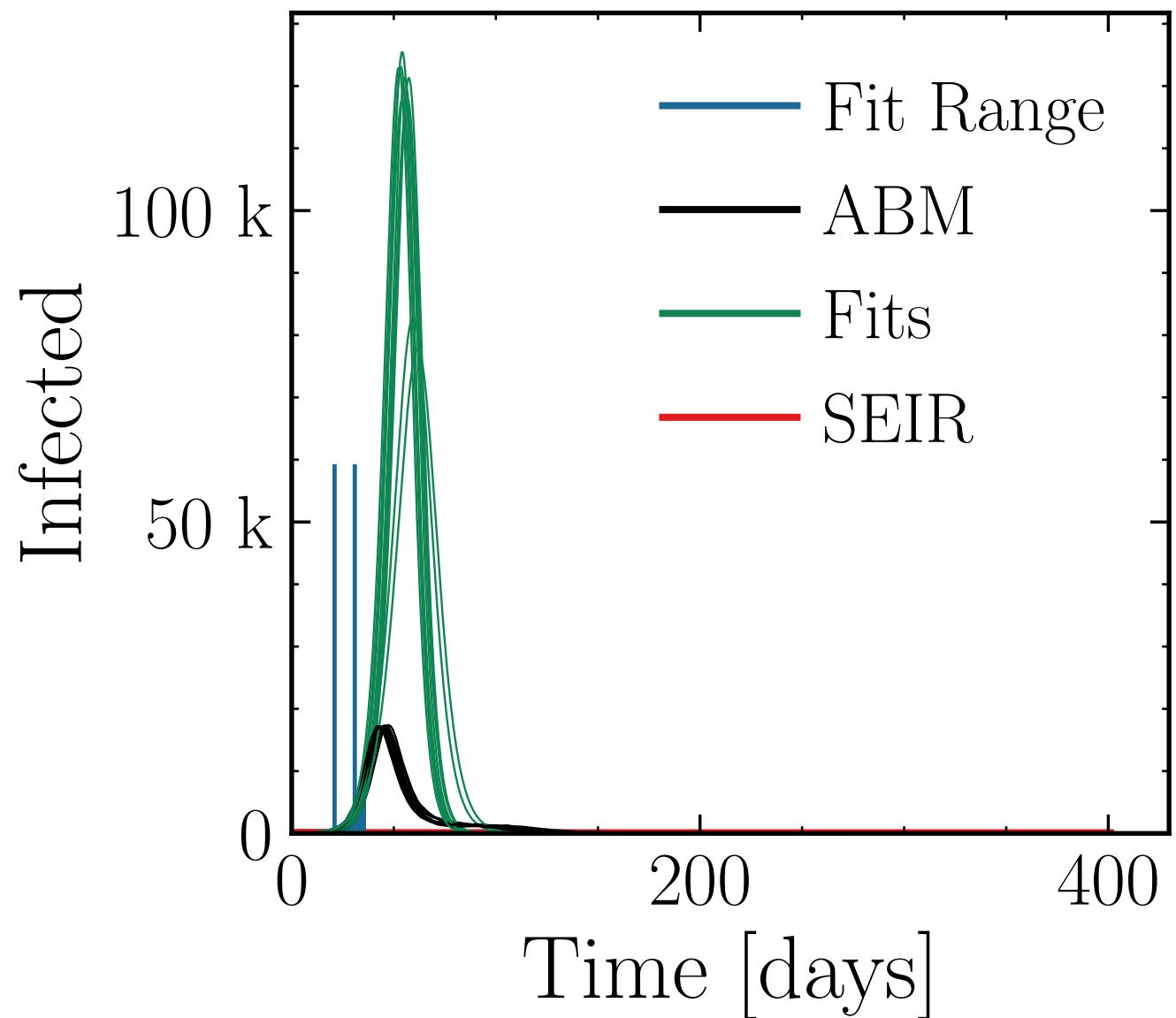
$N_{\text{tot}} = 580K$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = 120_{-40}^{+4} \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 6.5 \pm 0.29$$

$$R_{\infty}^{\text{fit}} = 555_{-40}^{+3} \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 5.04 \pm 0.054$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

