

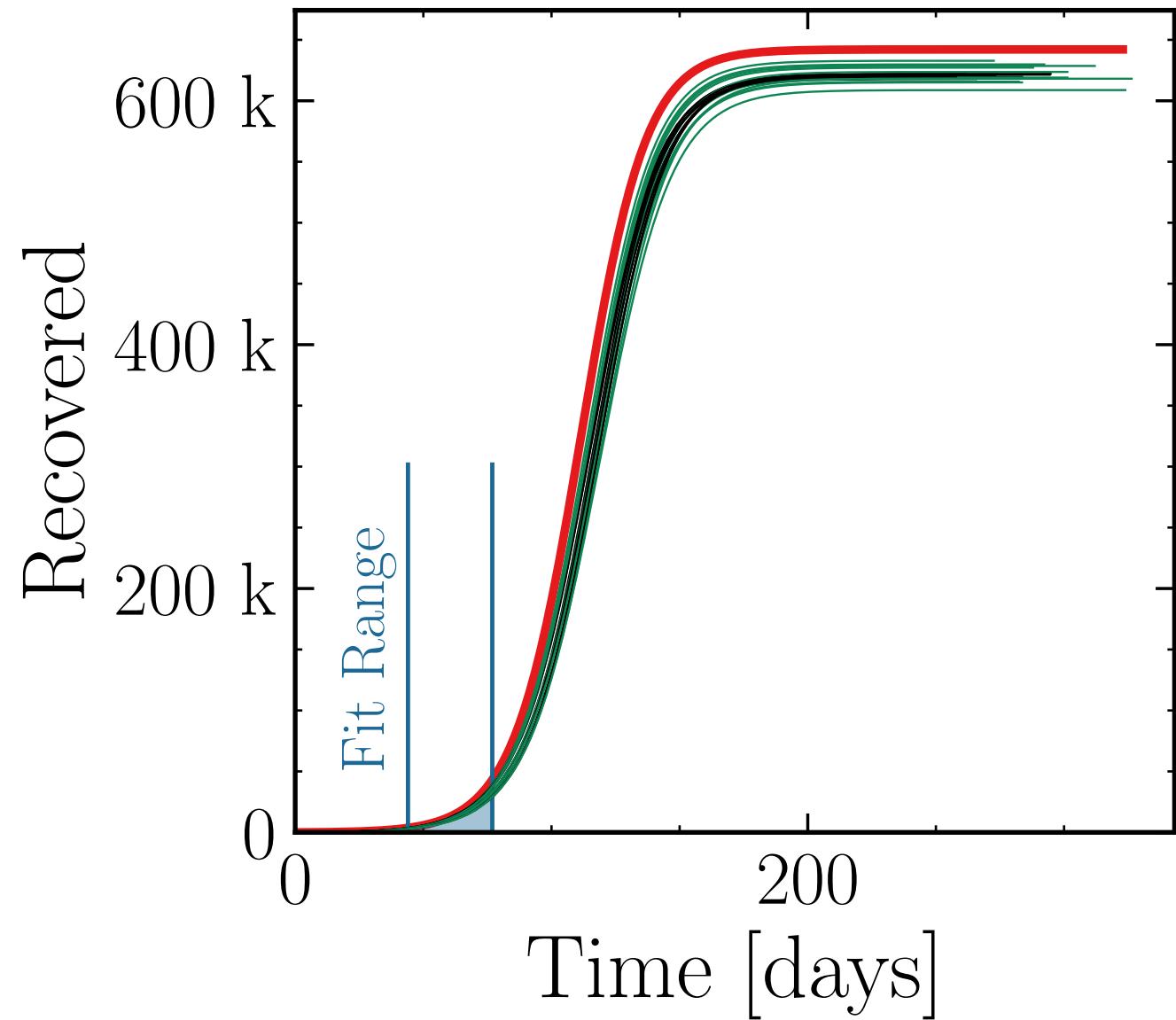
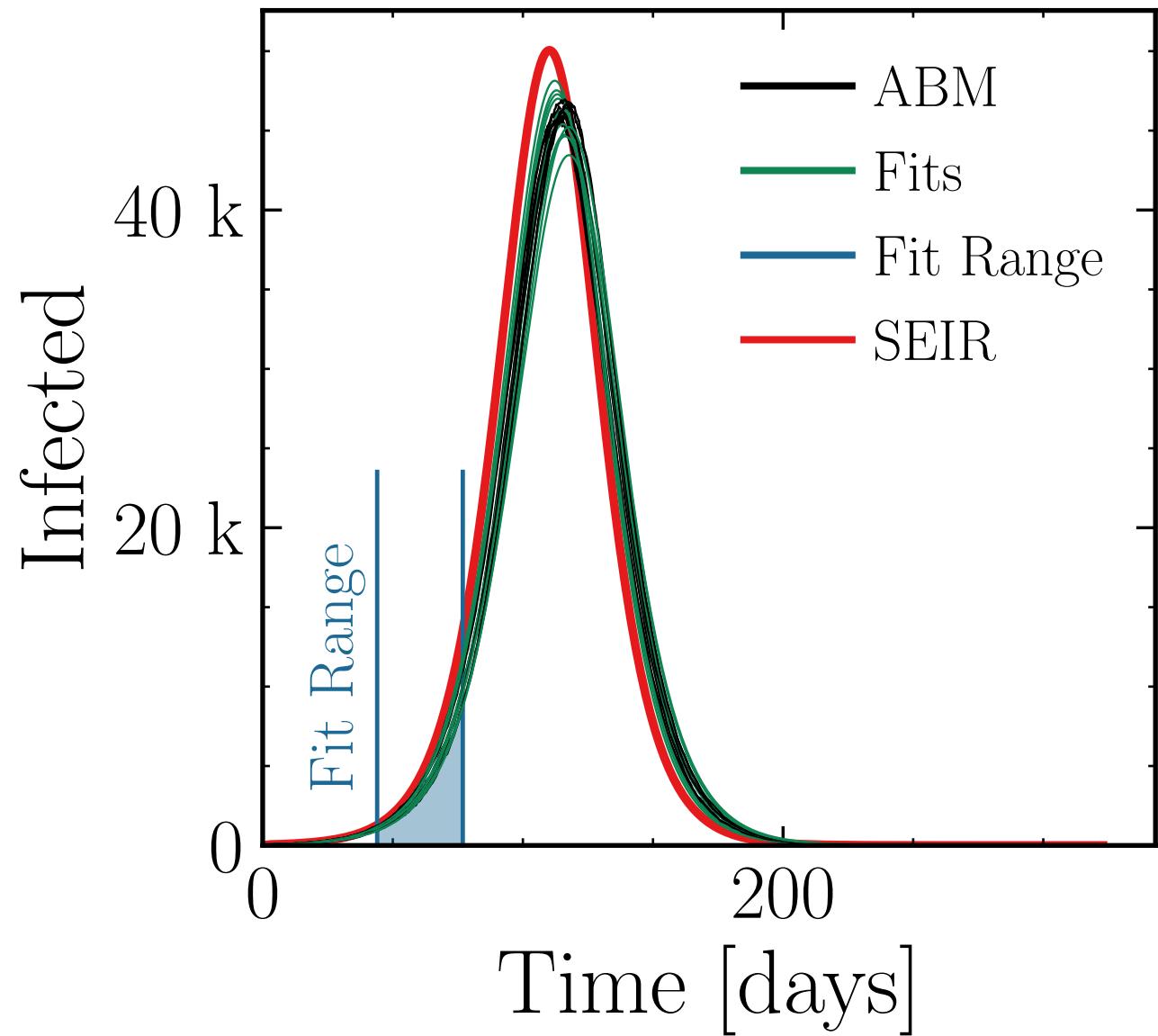
$N_{\text{tot}} = 1M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{fit}} = (46 \pm 0.99\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (622 \pm 0.38\%) \cdot 10^3$$

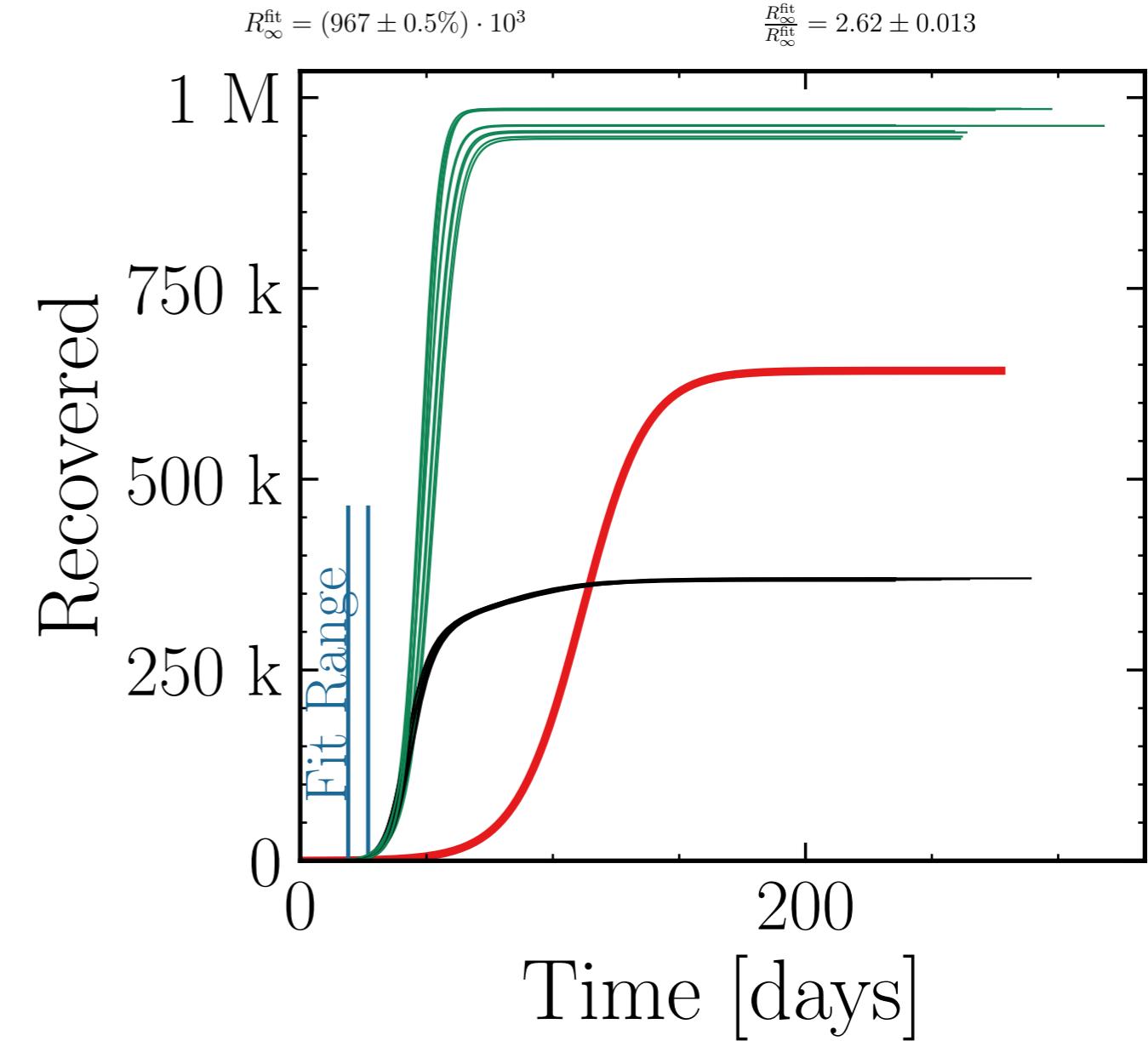
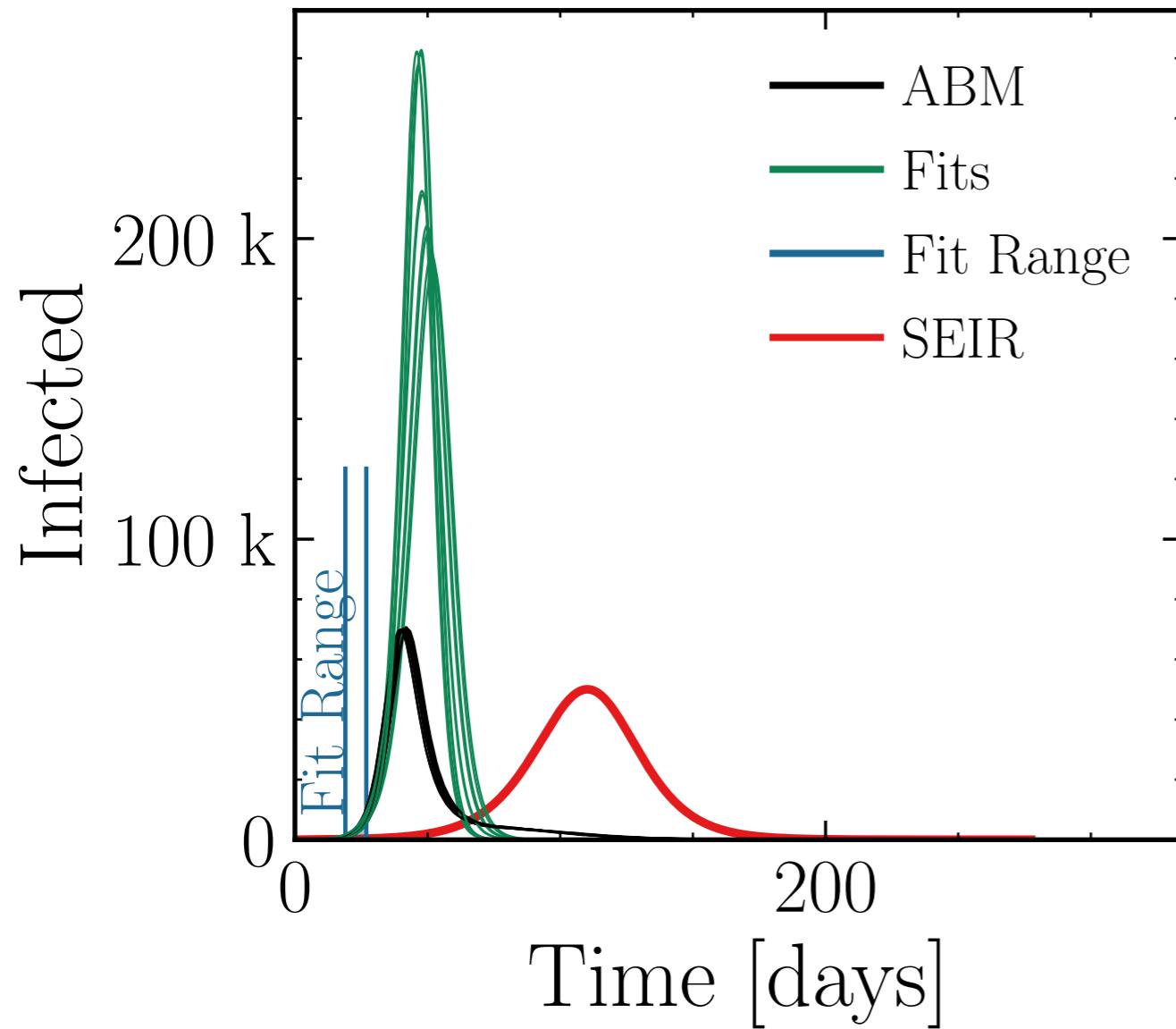
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.002 \pm 0.0040$$



$N_{\text{tot}} = 1M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (227 \pm 4.0\%) \cdot 10^3$$

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



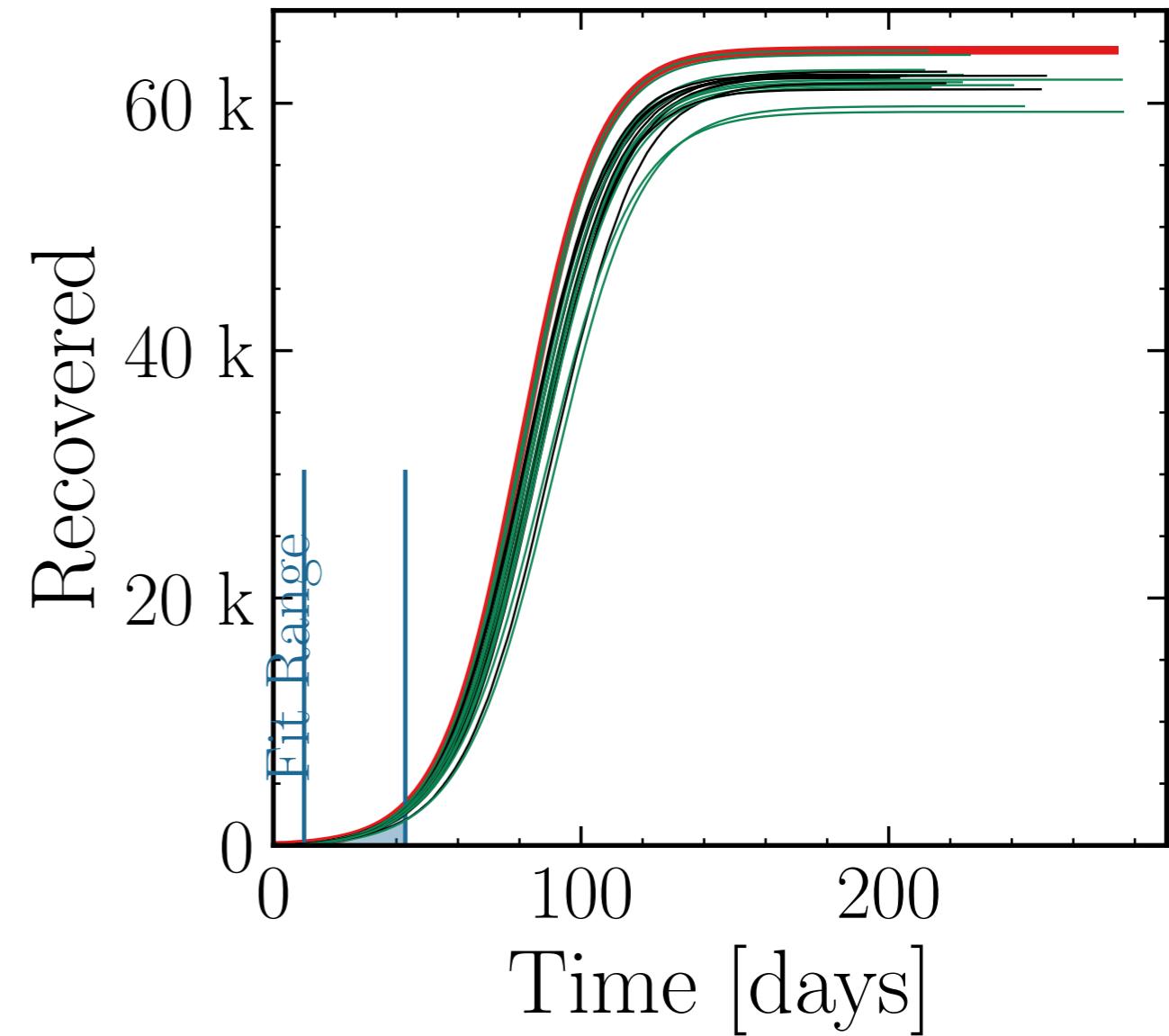
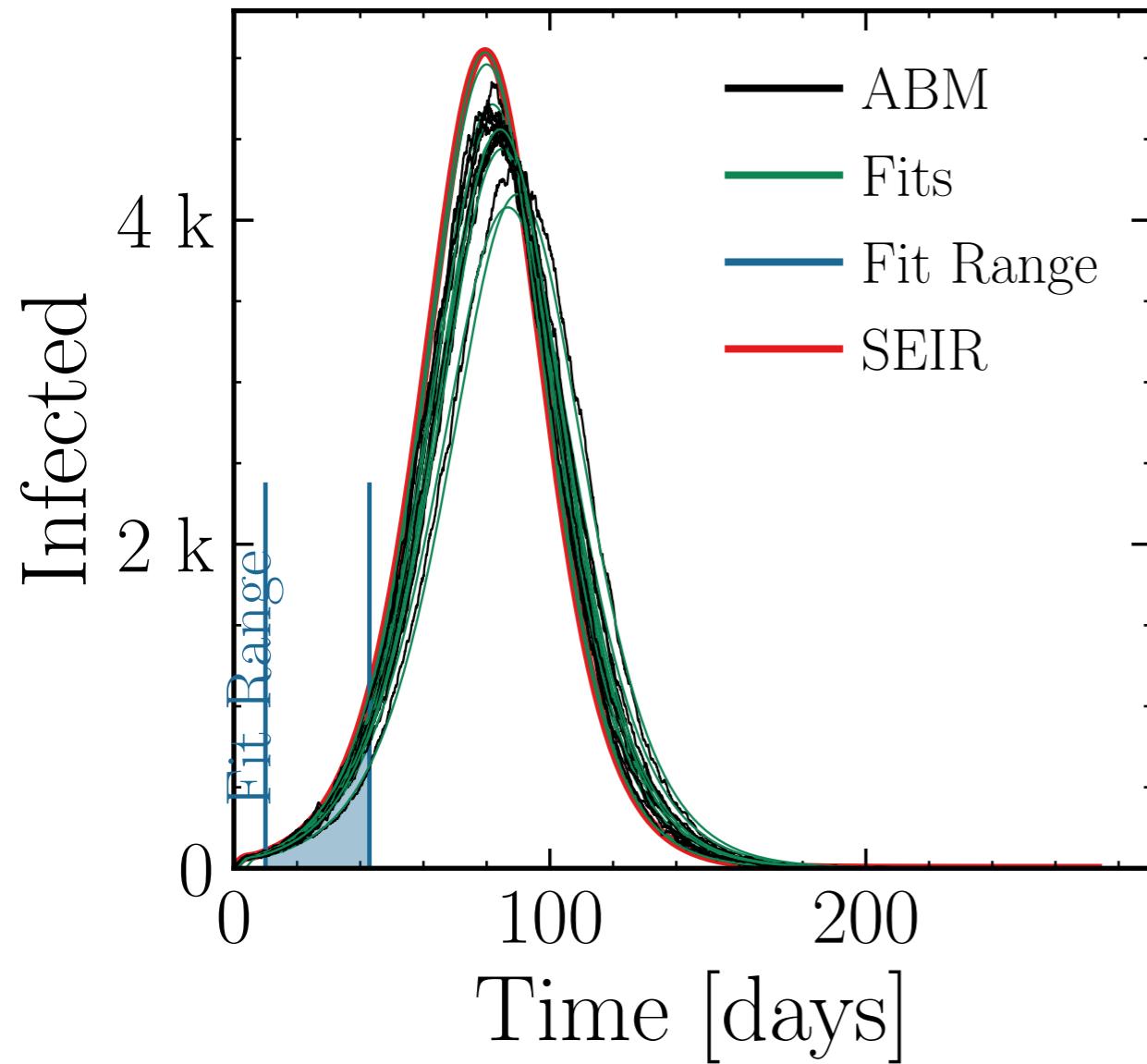
$N_{\text{tot}} = 100K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (4.56 \pm 2.0\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (61.9 \pm 0.78\%) \cdot 10^3$$

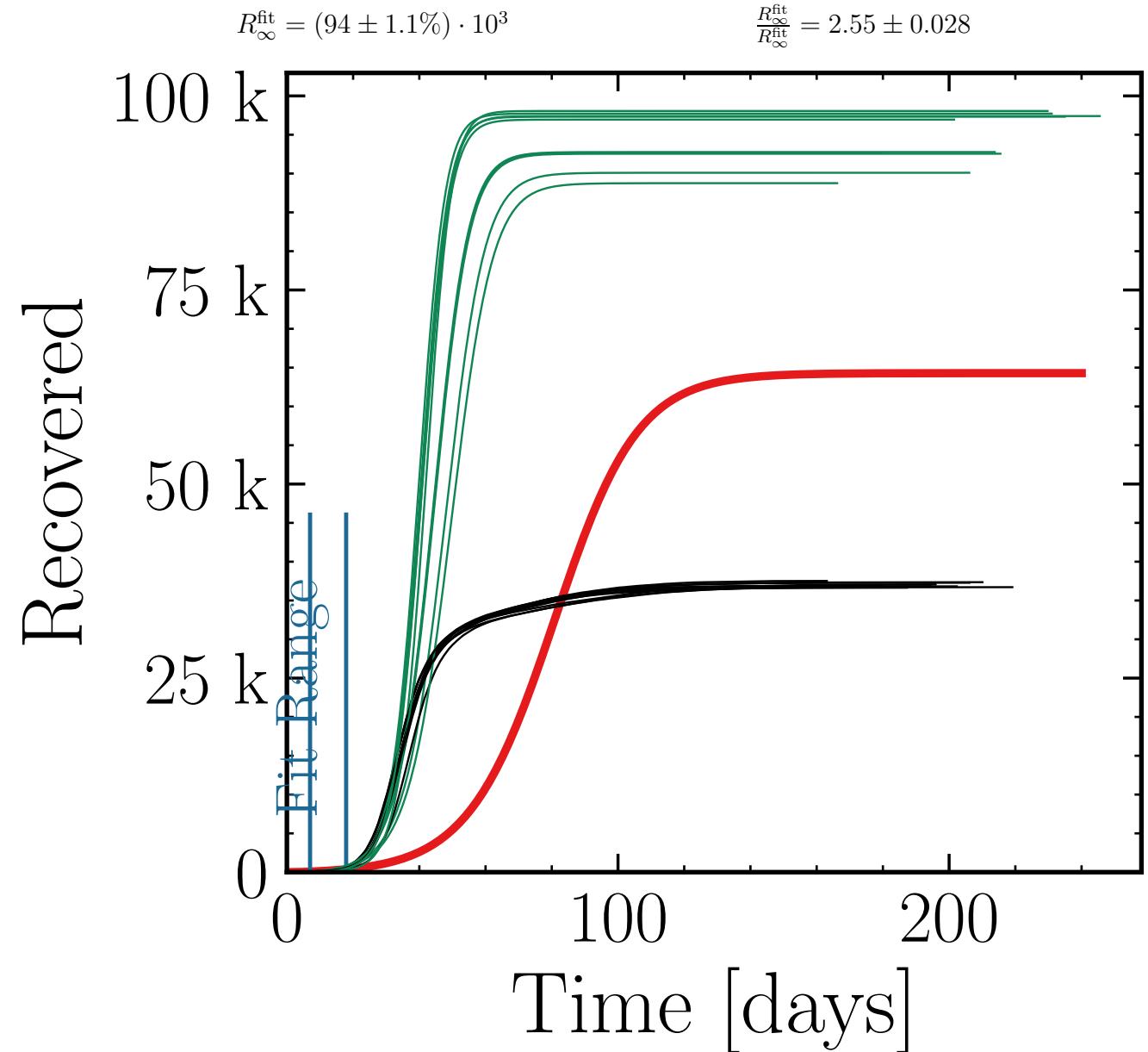
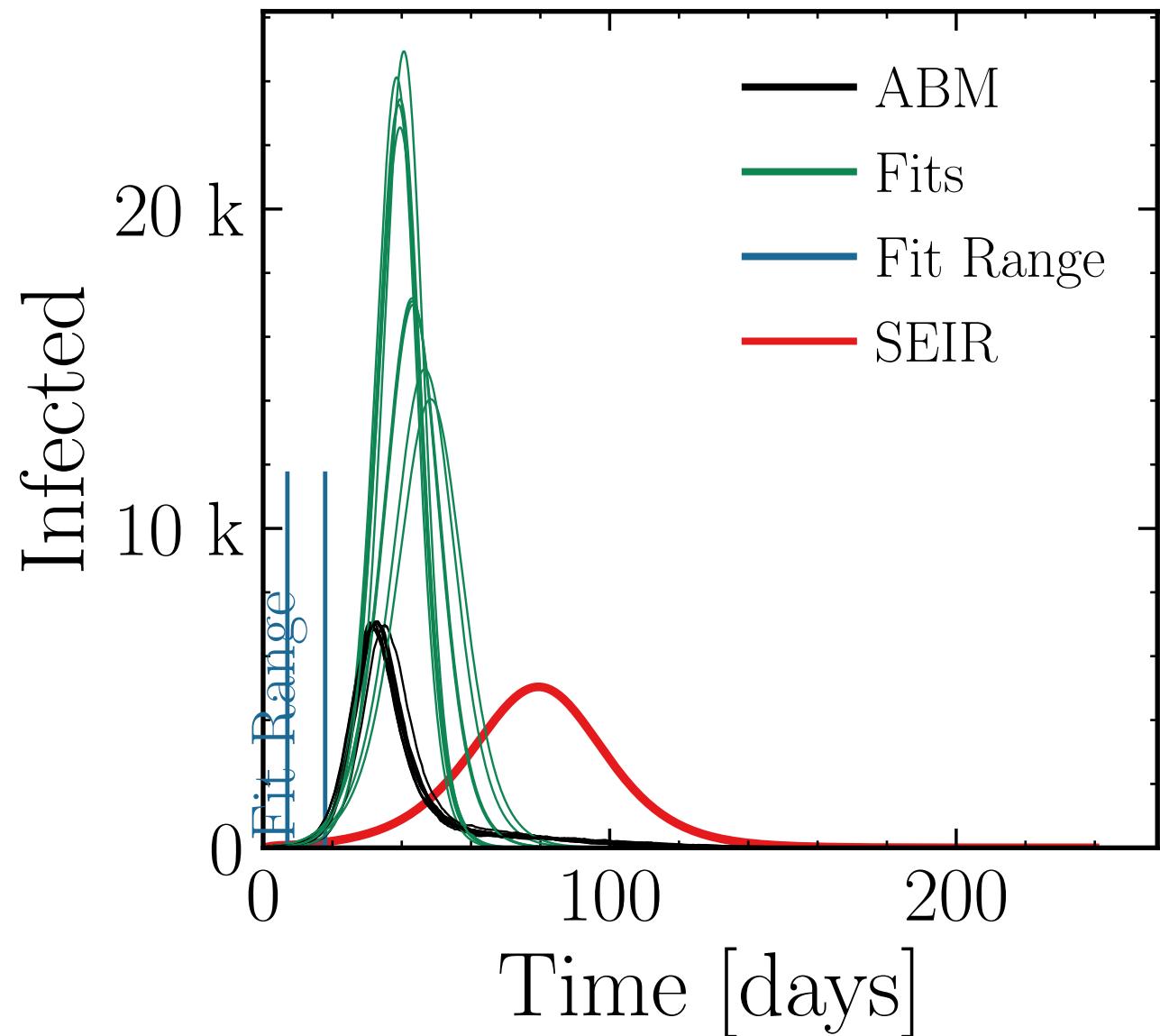
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 0.996 \pm 0.007$$



$N_{\text{tot}} = 100K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\text{max}}^{\text{fit}} = (20 \pm 6.3\%) \cdot 10^3$$

$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 2.8 \pm 0.18$$



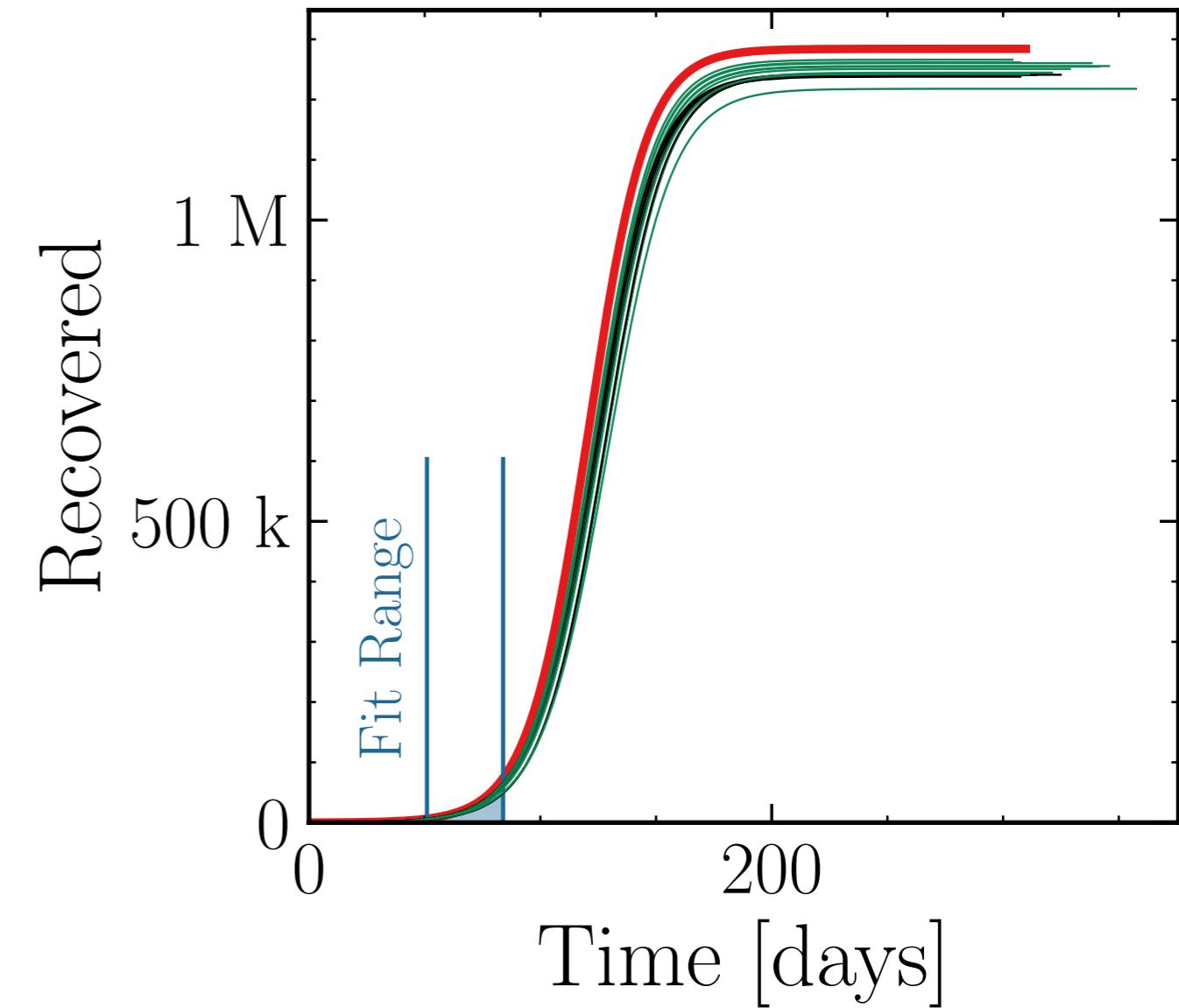
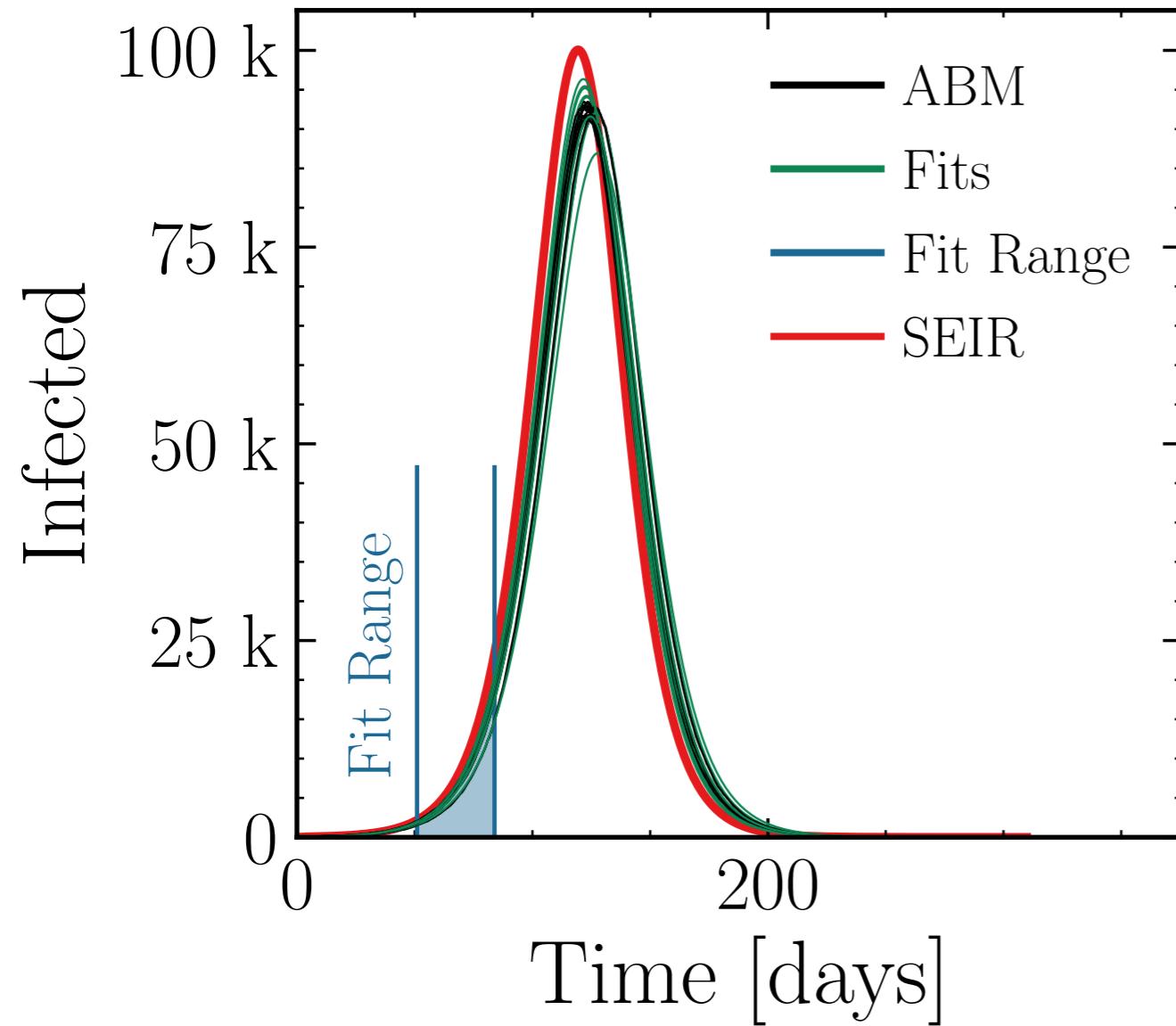
$N_{\text{tot}} = 2M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (93.1 \pm 0.87\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (1.25 \pm 0.33\%) \cdot 10^6$$

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



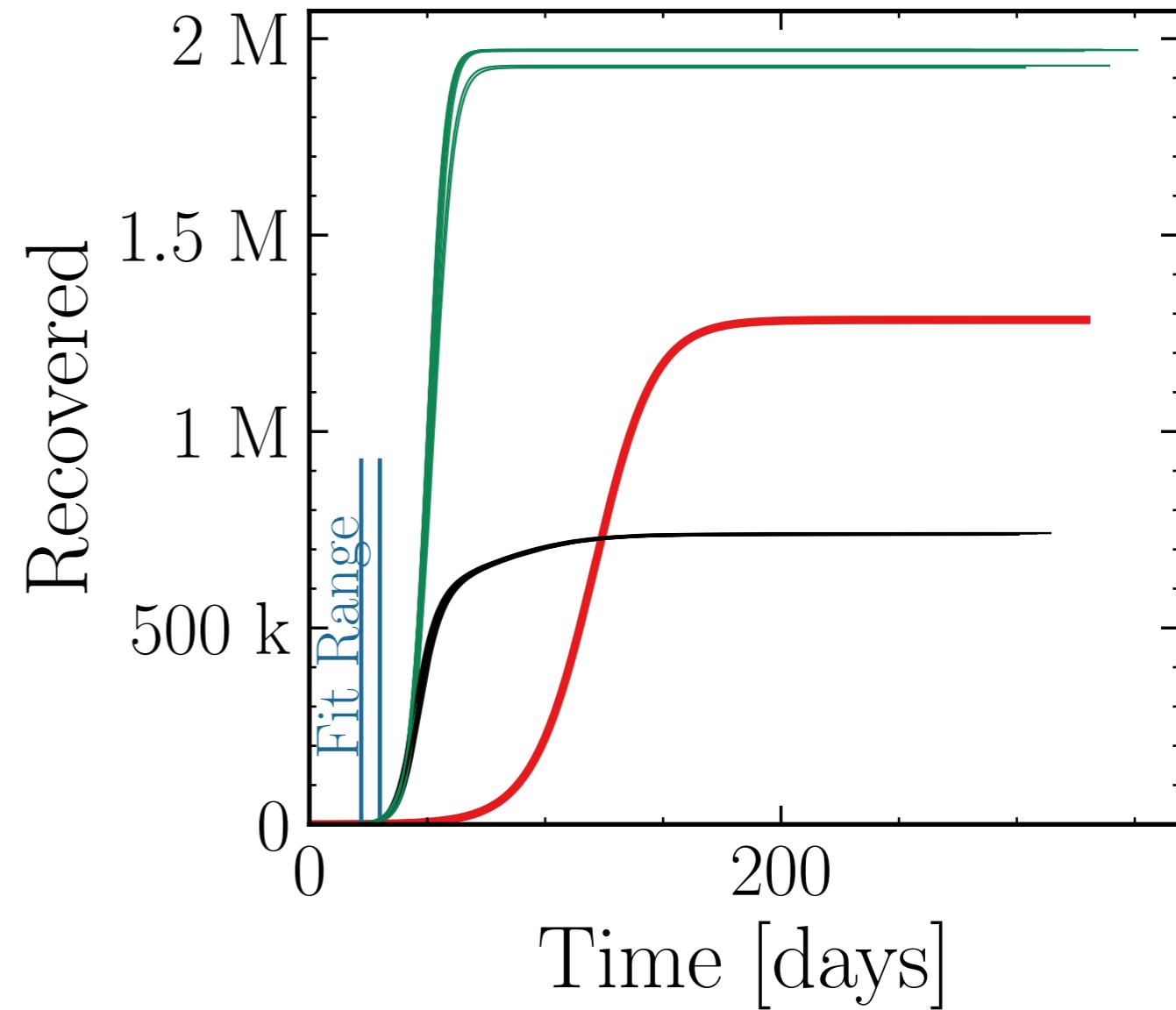
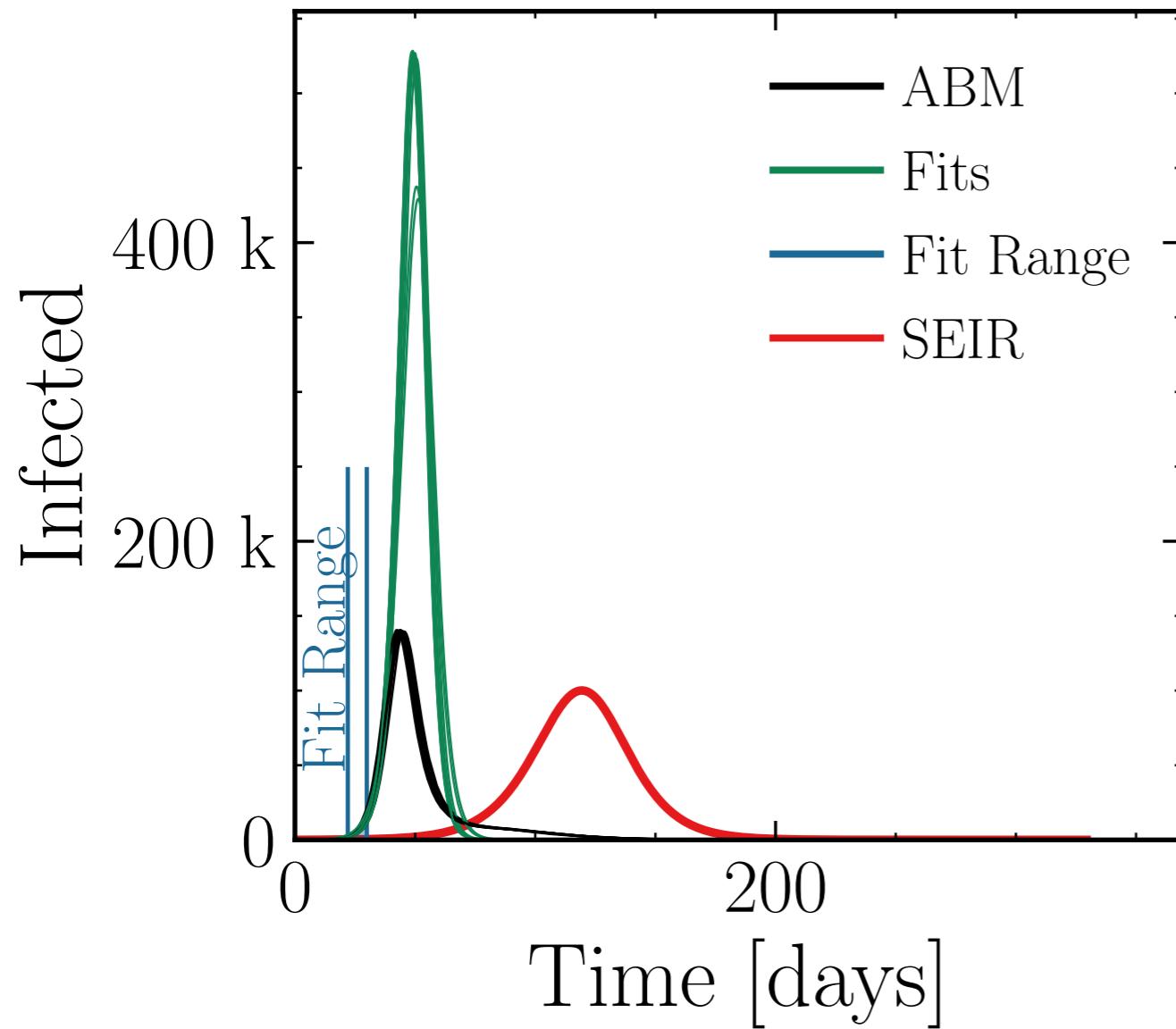
$N_{\text{tot}} = 2M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (510 \pm 2.3\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (1.962 \pm 0.27\%) \cdot 10^6$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.657 \pm 0.0076$$



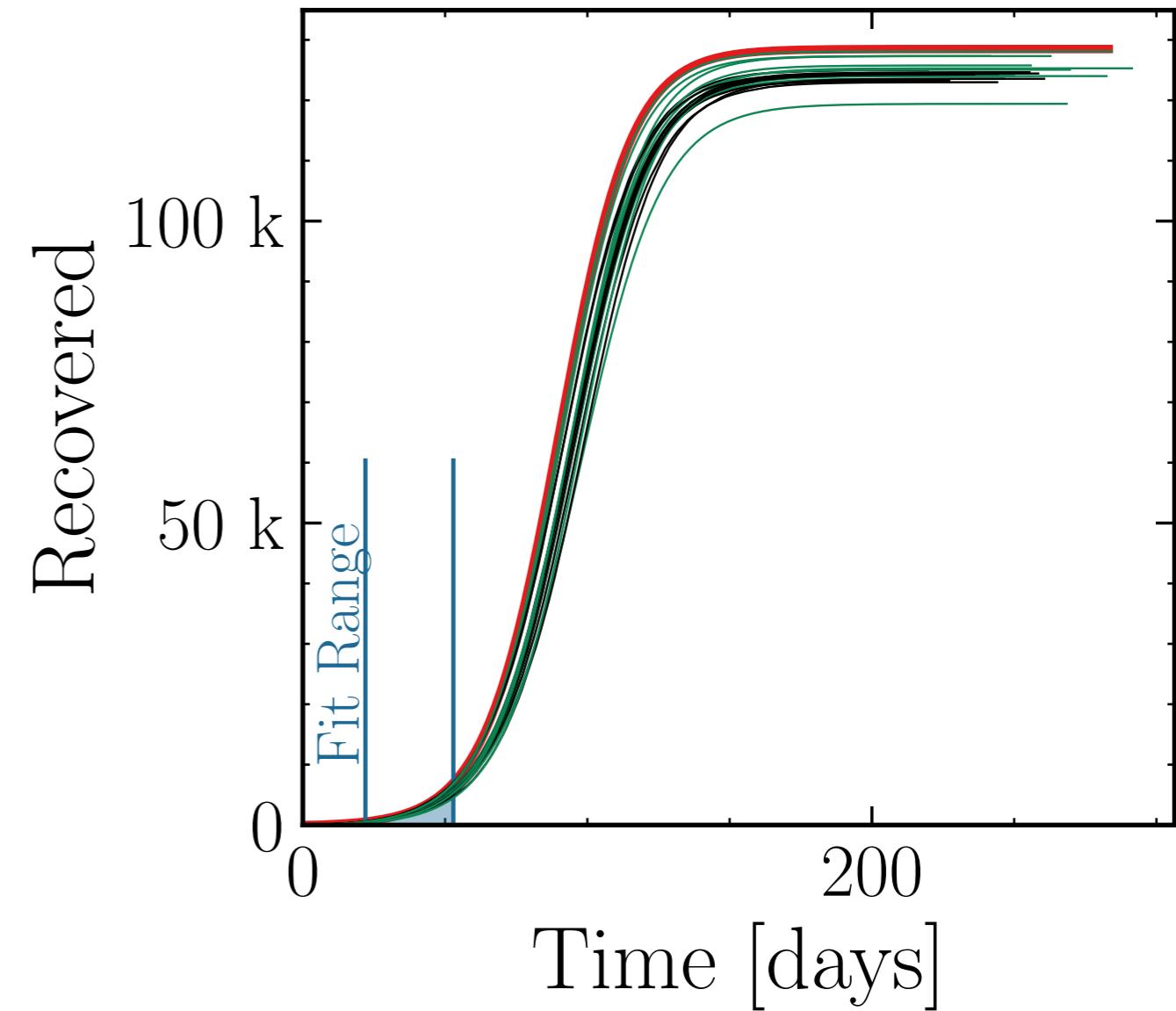
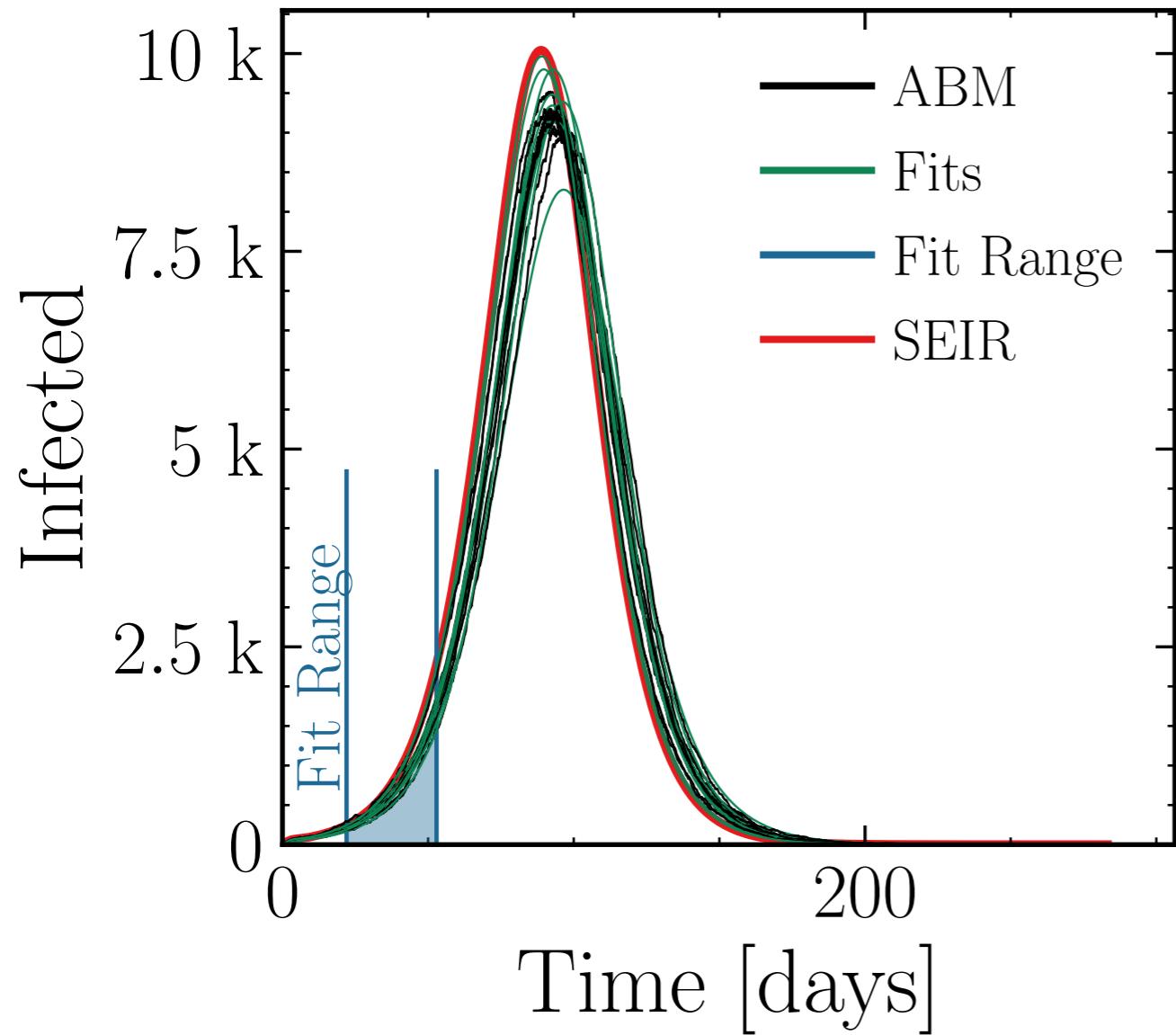
$N_{\text{tot}} = 200K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (9.3 \pm 1.6\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.013$$

$$R_{\infty}^{\text{fit}} = (125 \pm 0.61\%) \cdot 10^3$$

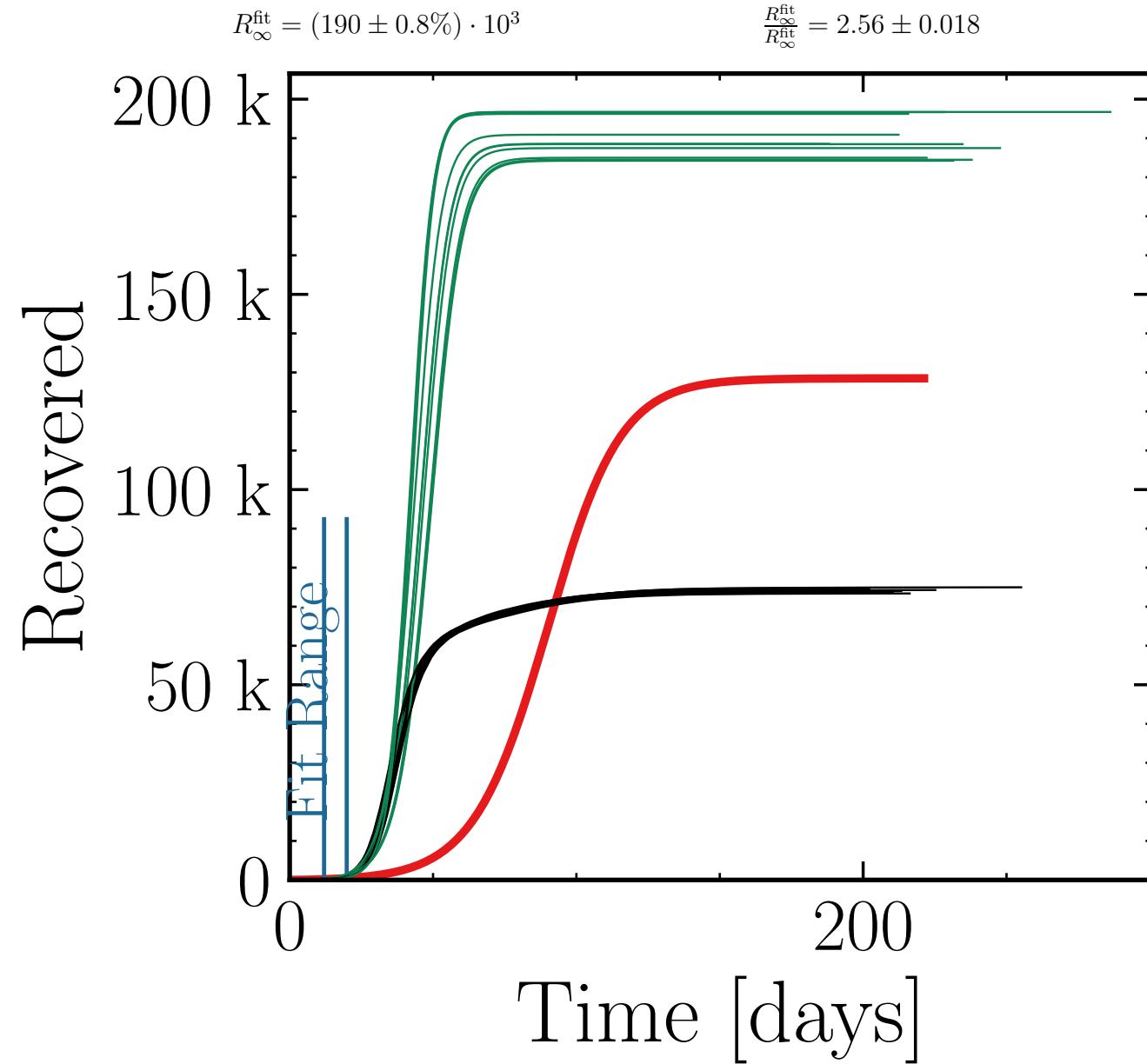
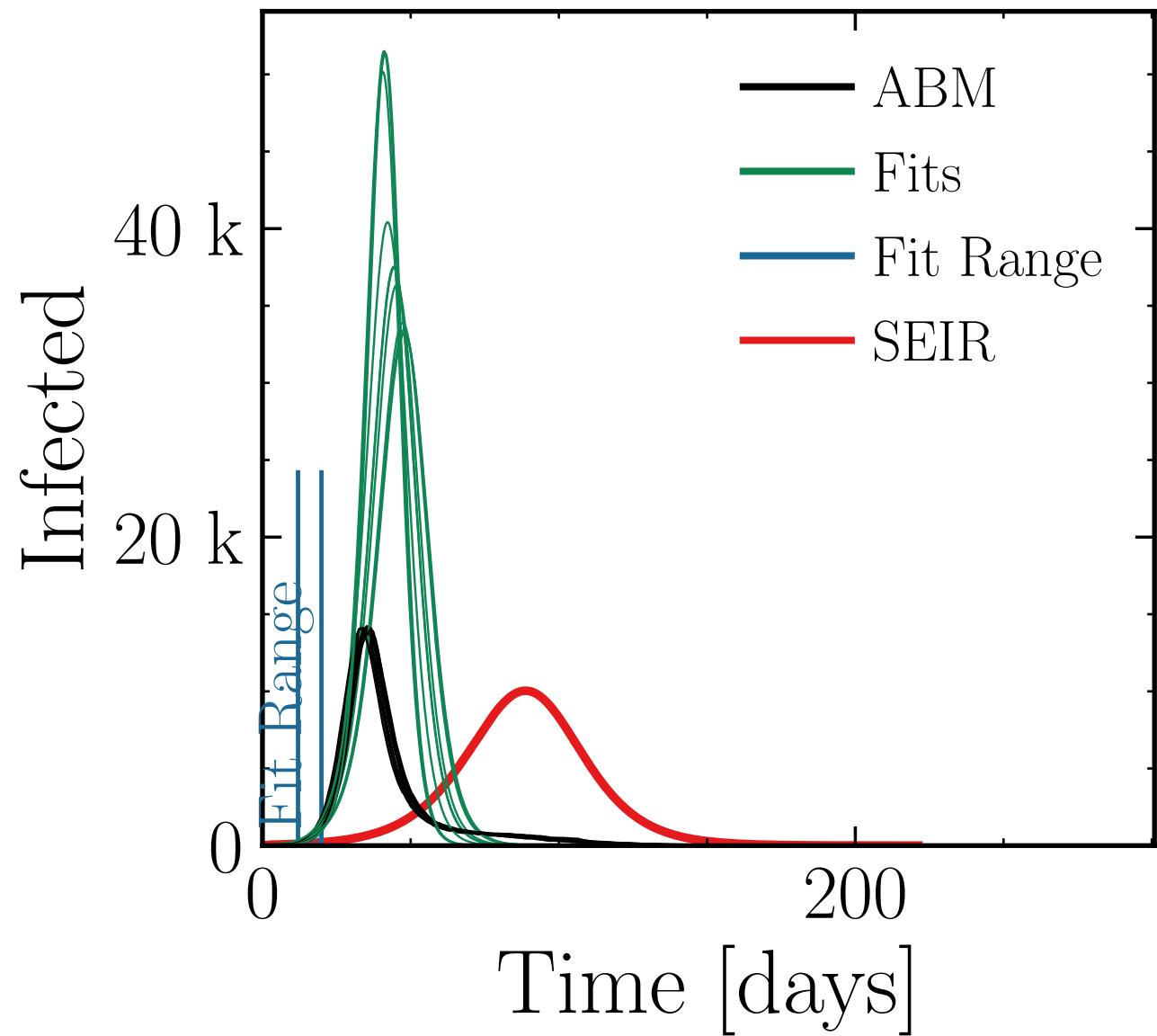
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.008 \pm 0.0050$$



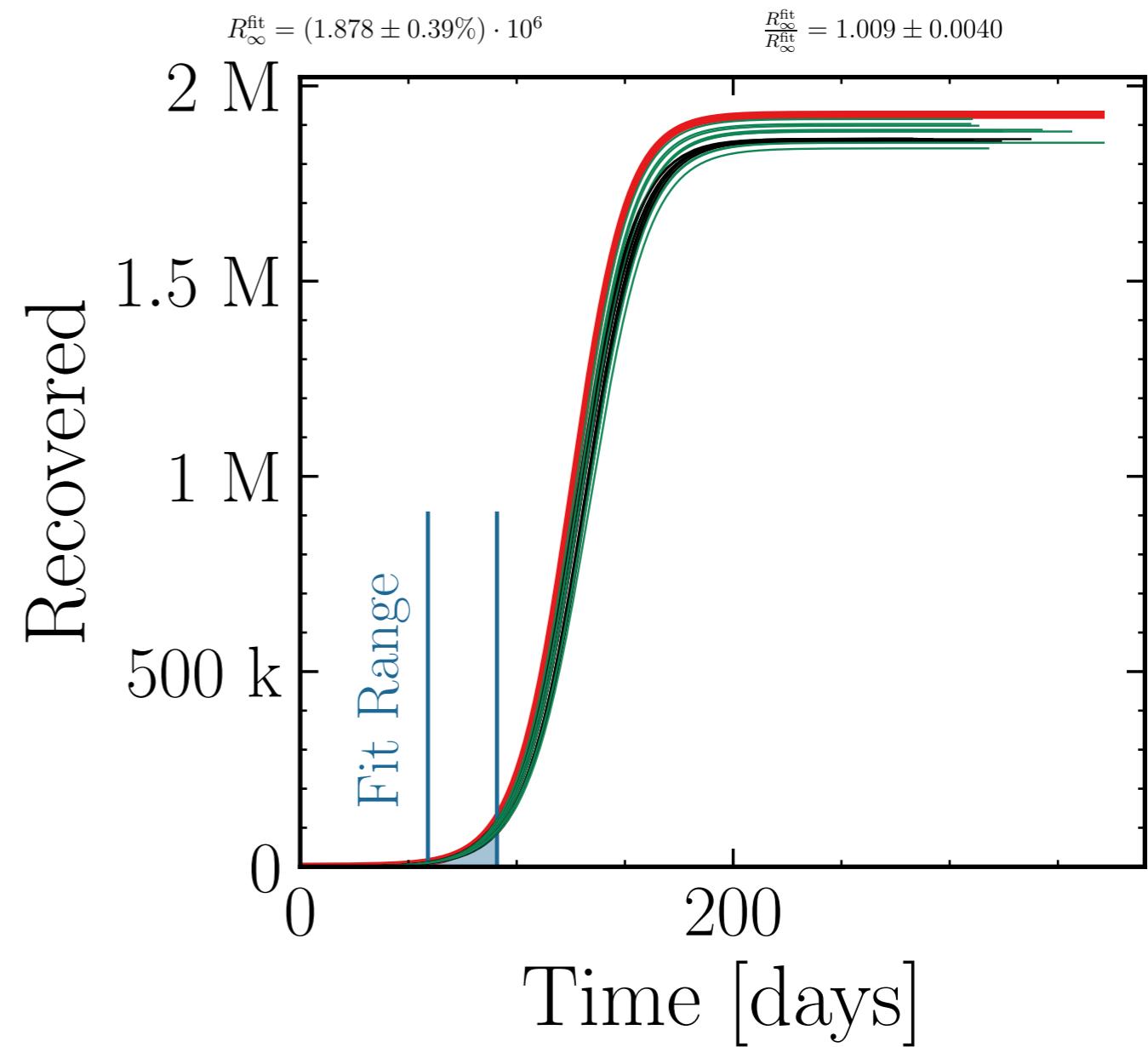
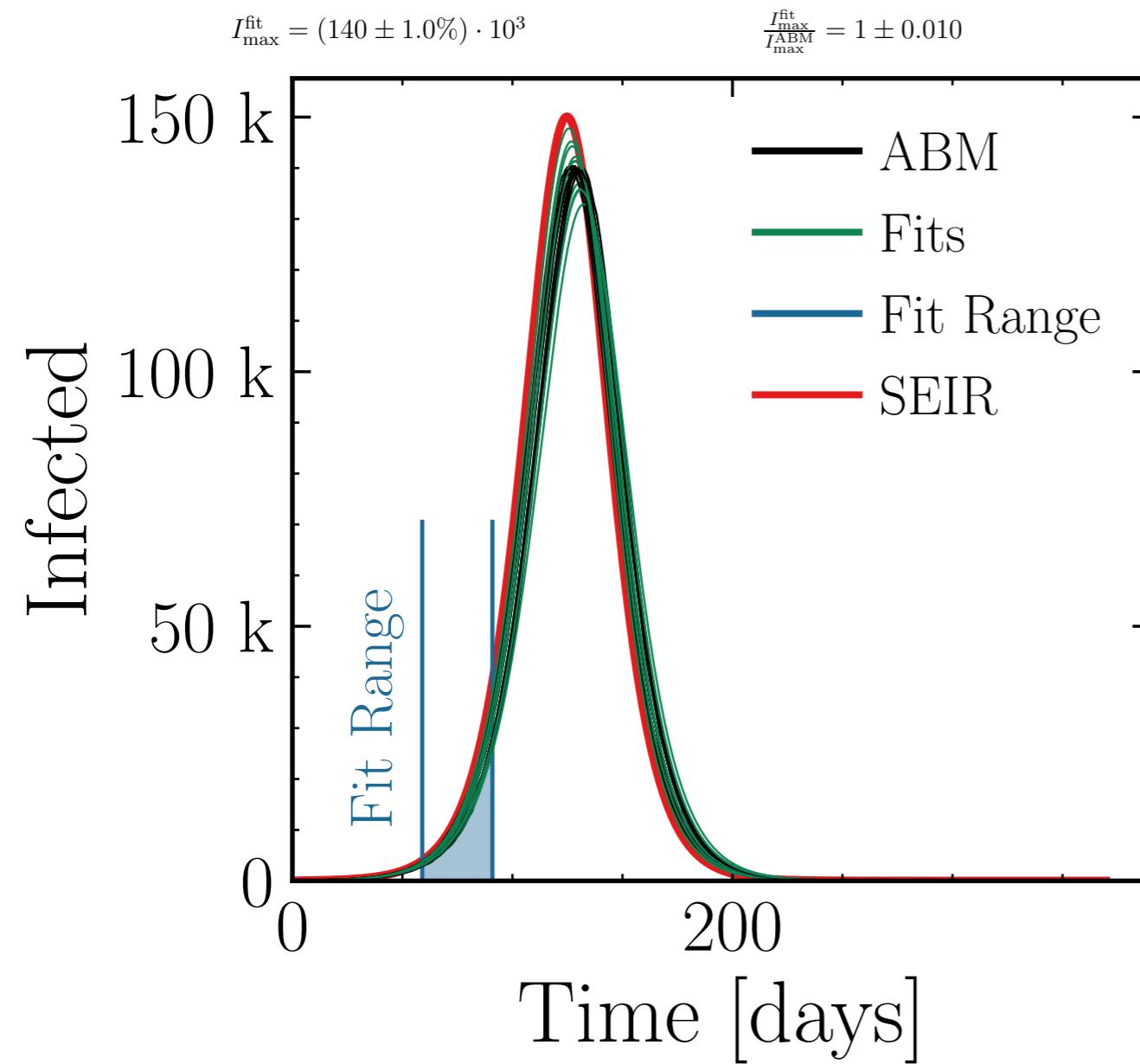
$N_{\text{tot}} = 200K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (41 \pm 5.6\%) \cdot 10^3$$

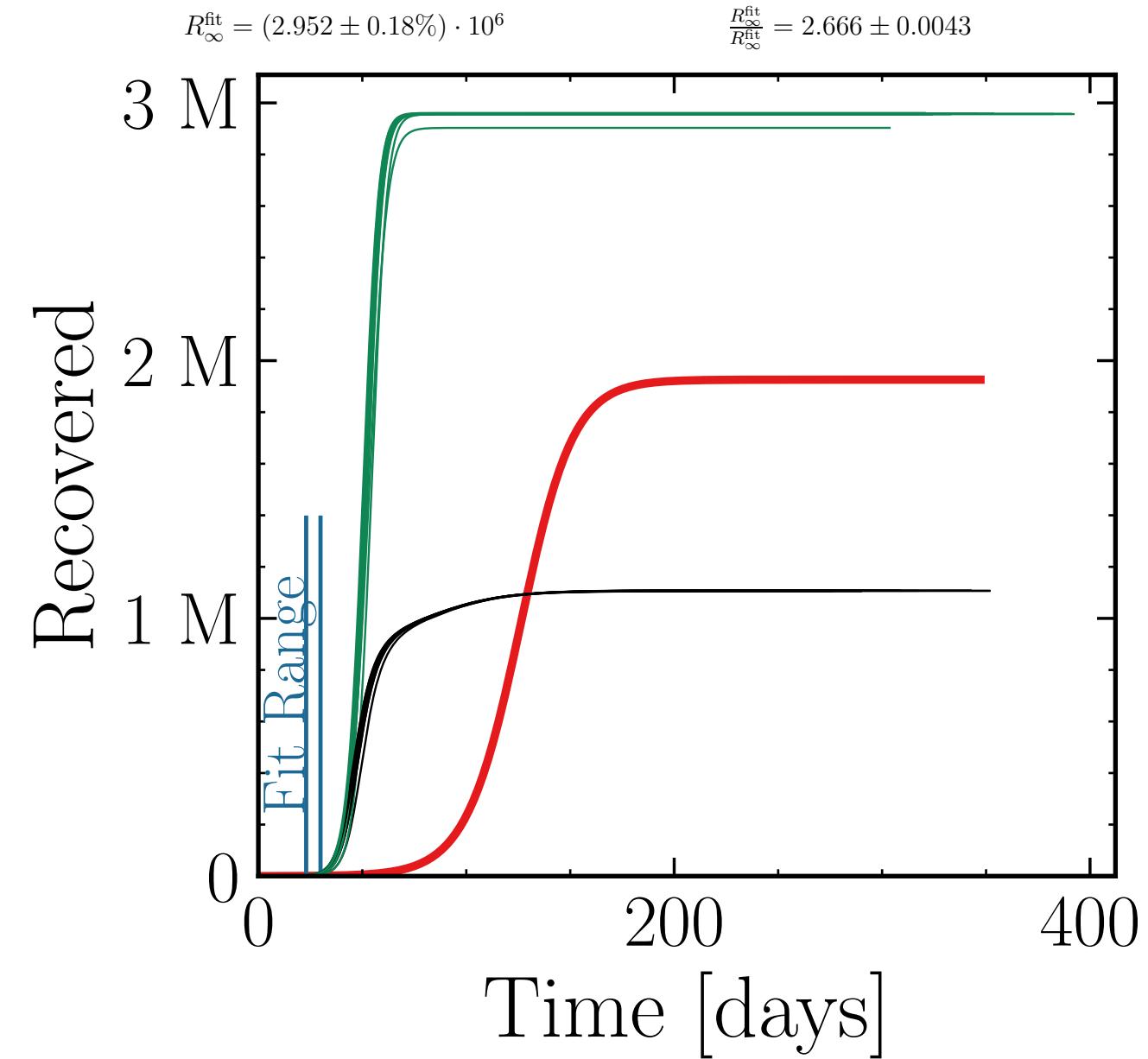
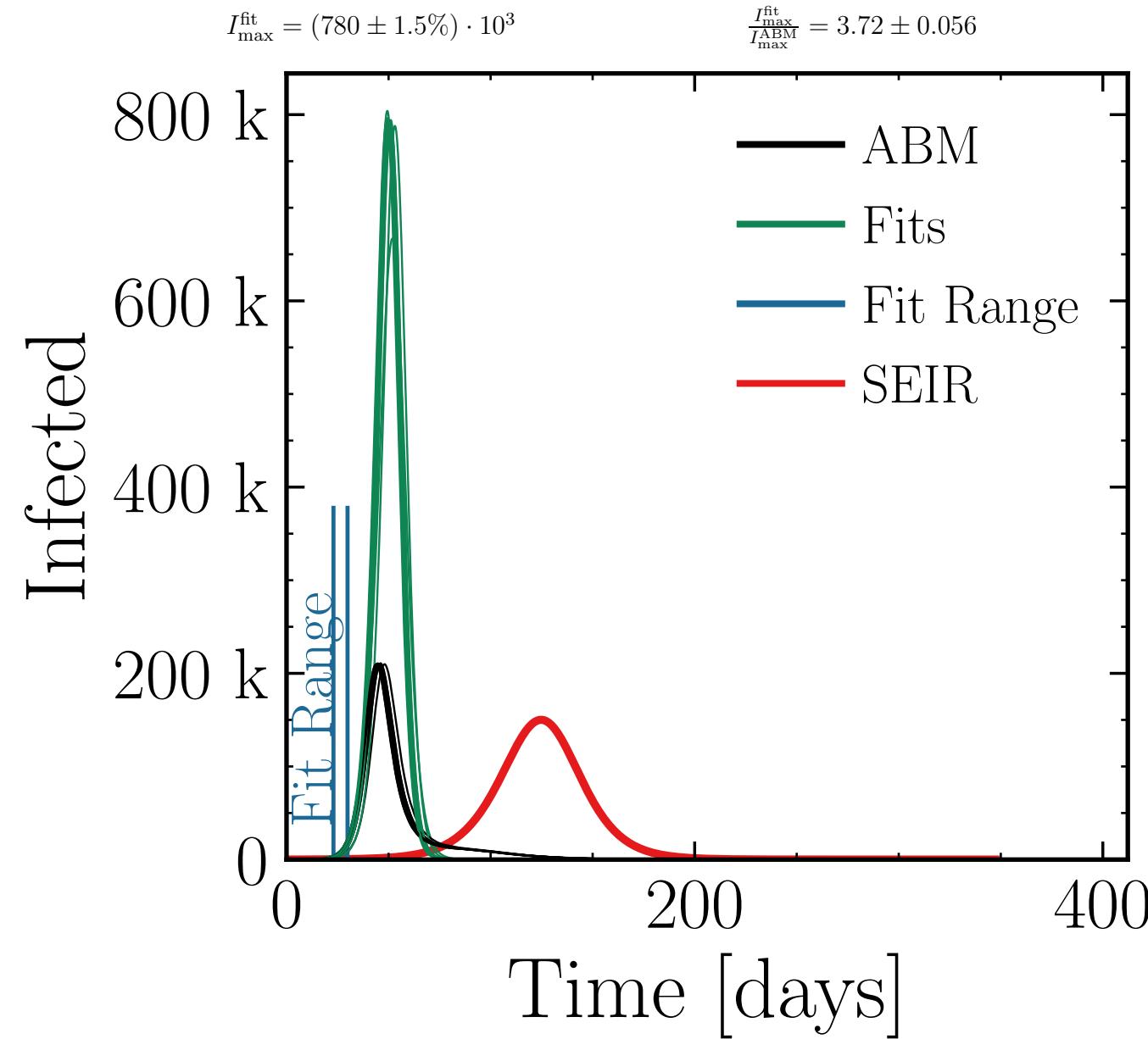
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 2.9 \pm 0.16$$



$N_{\text{tot}} = 3M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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



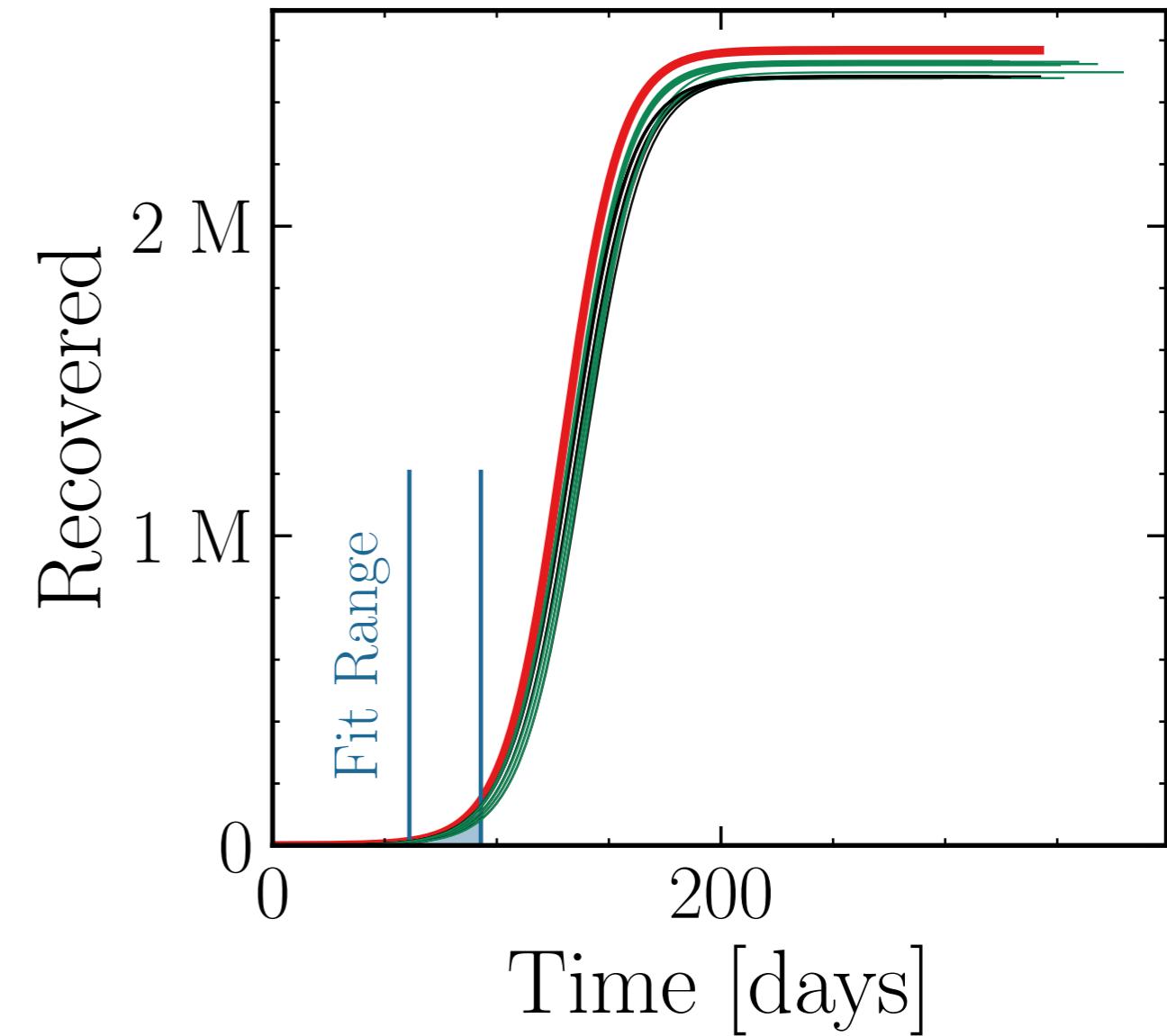
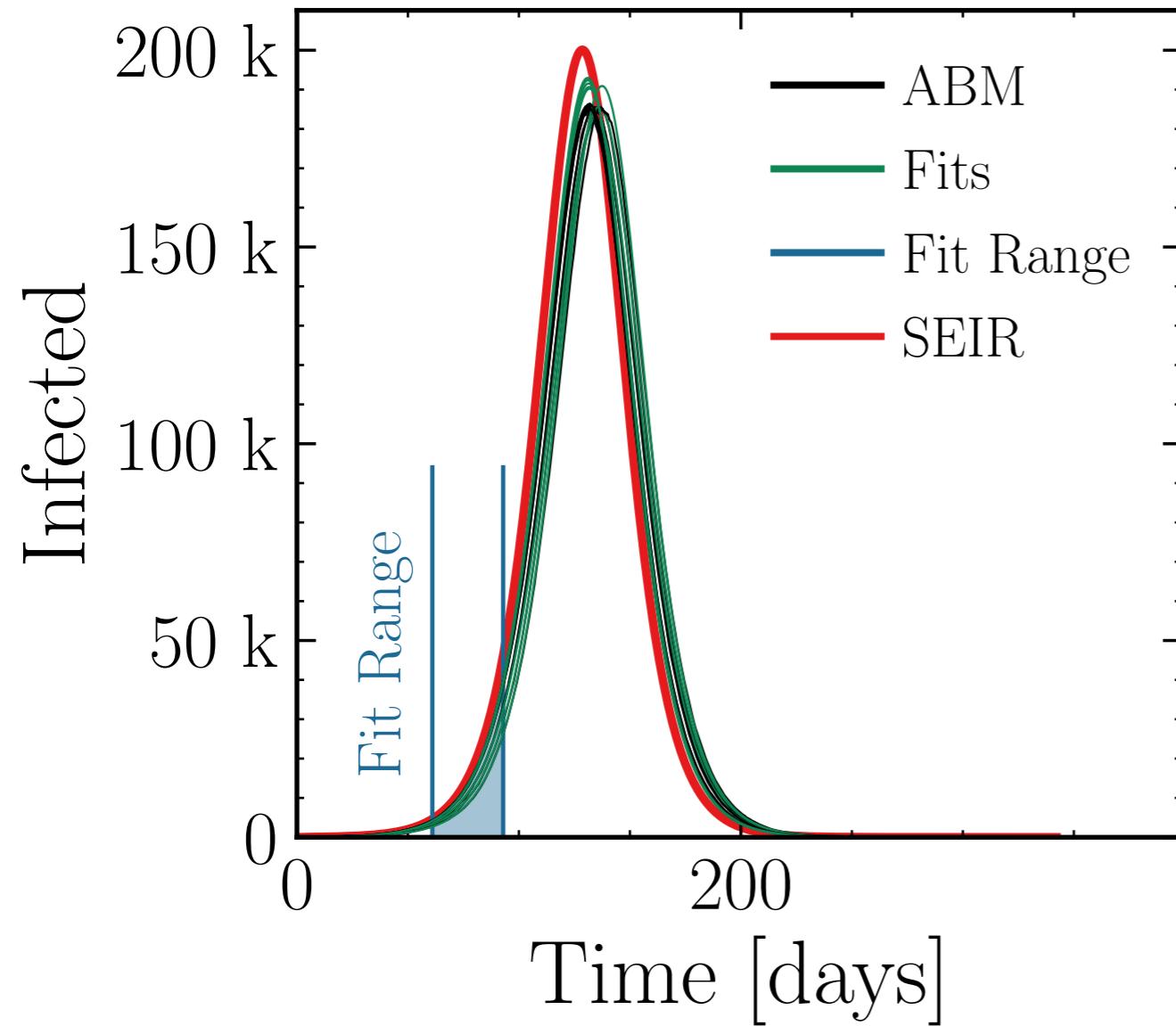
$N_{\text{tot}} = 4M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (189 \pm 0.66\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 1.019 \pm 0.0066$$

$$R_{\infty}^{\text{fit}} = (2.515 \pm 0.25\%) \cdot 10^6$$

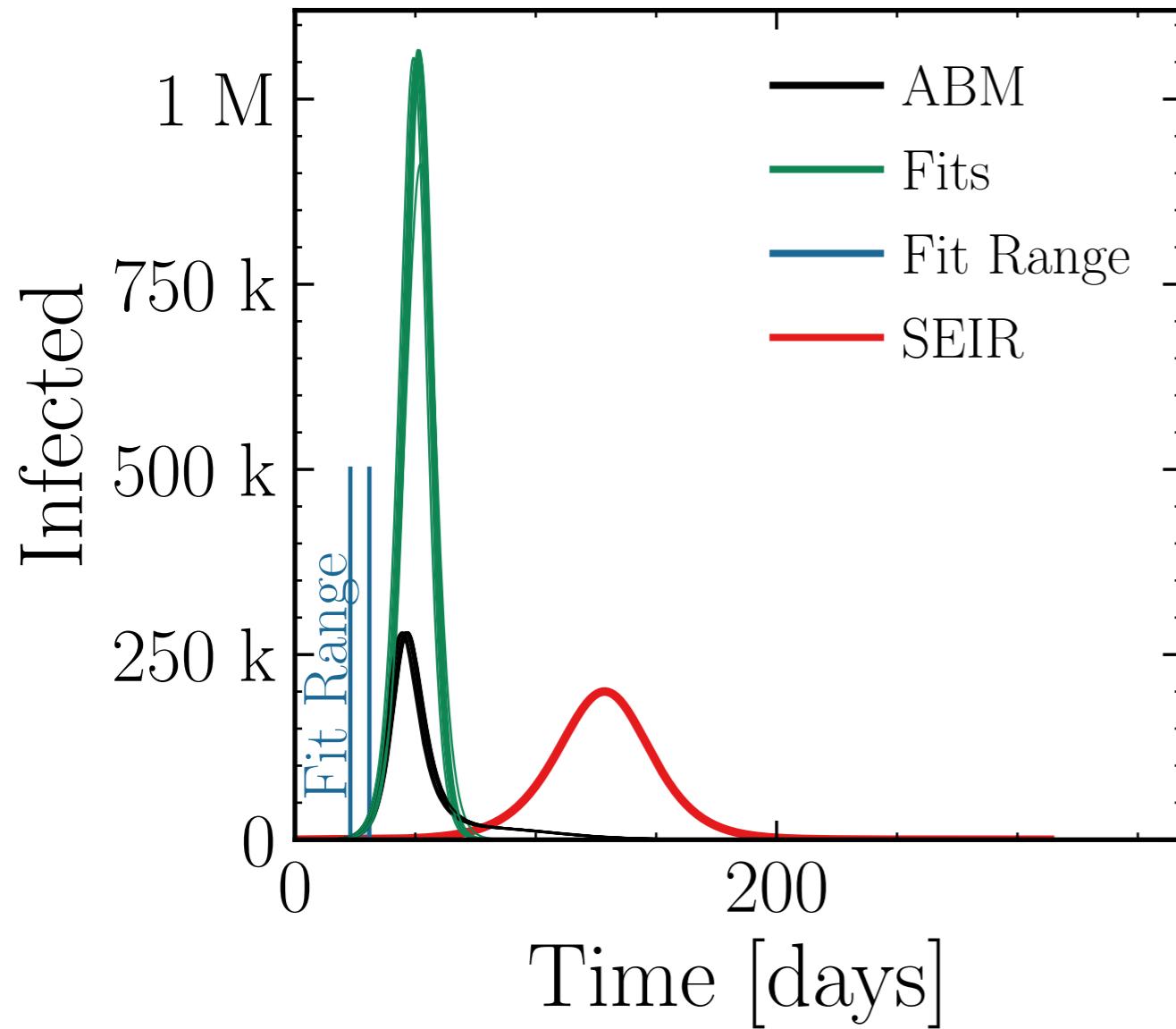
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.013 \pm 0.0026$$



$N_{\text{tot}} = 4M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

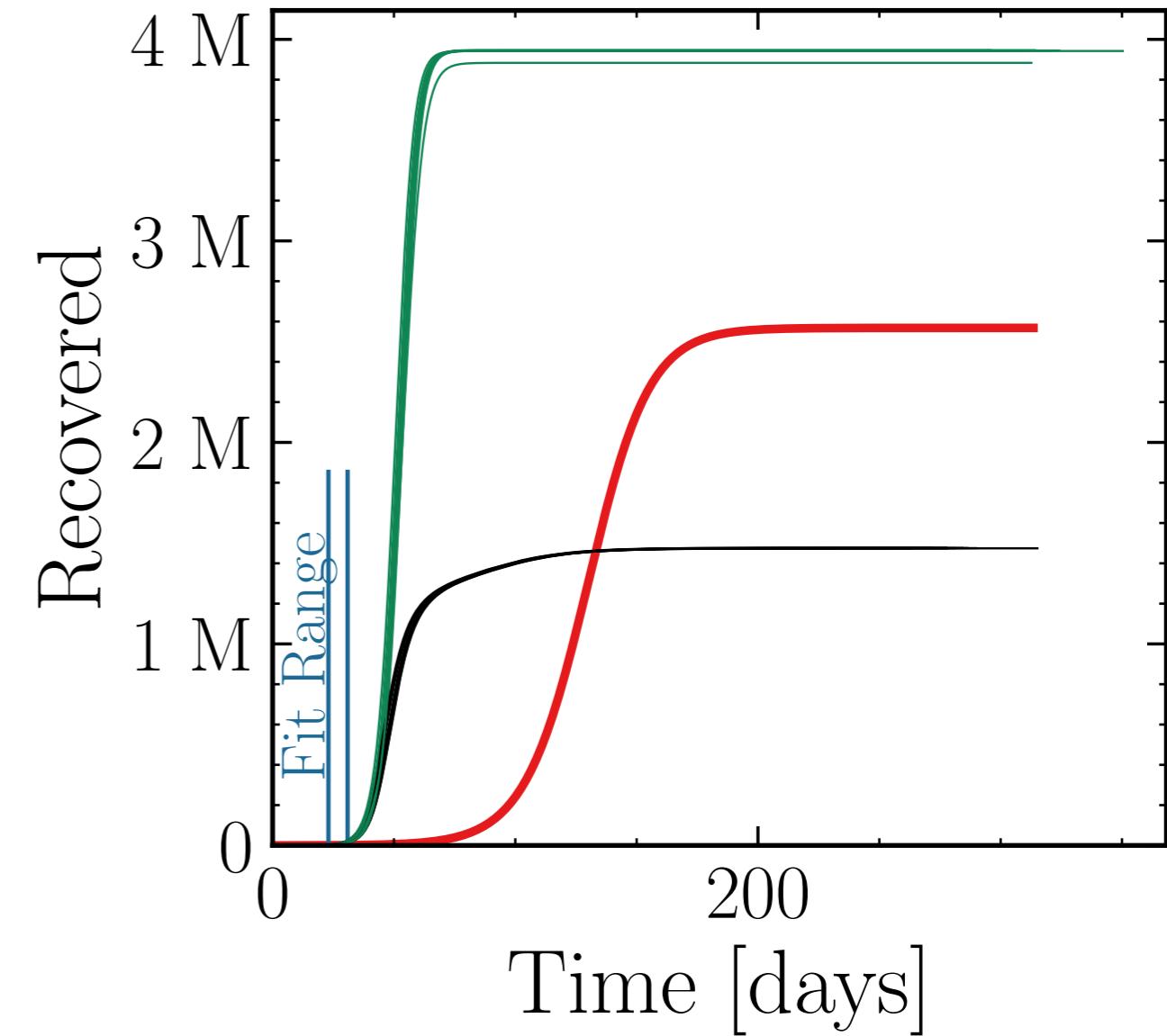
$$I_{\max}^{\text{fit}} = (1.04 \pm 1.3\%) \cdot 10^6$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.73 \pm 0.050$$



$$R_{\infty}^{\text{fit}} = (3.938 \pm 0.15\%) \cdot 10^6$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.669 \pm 0.0040$$



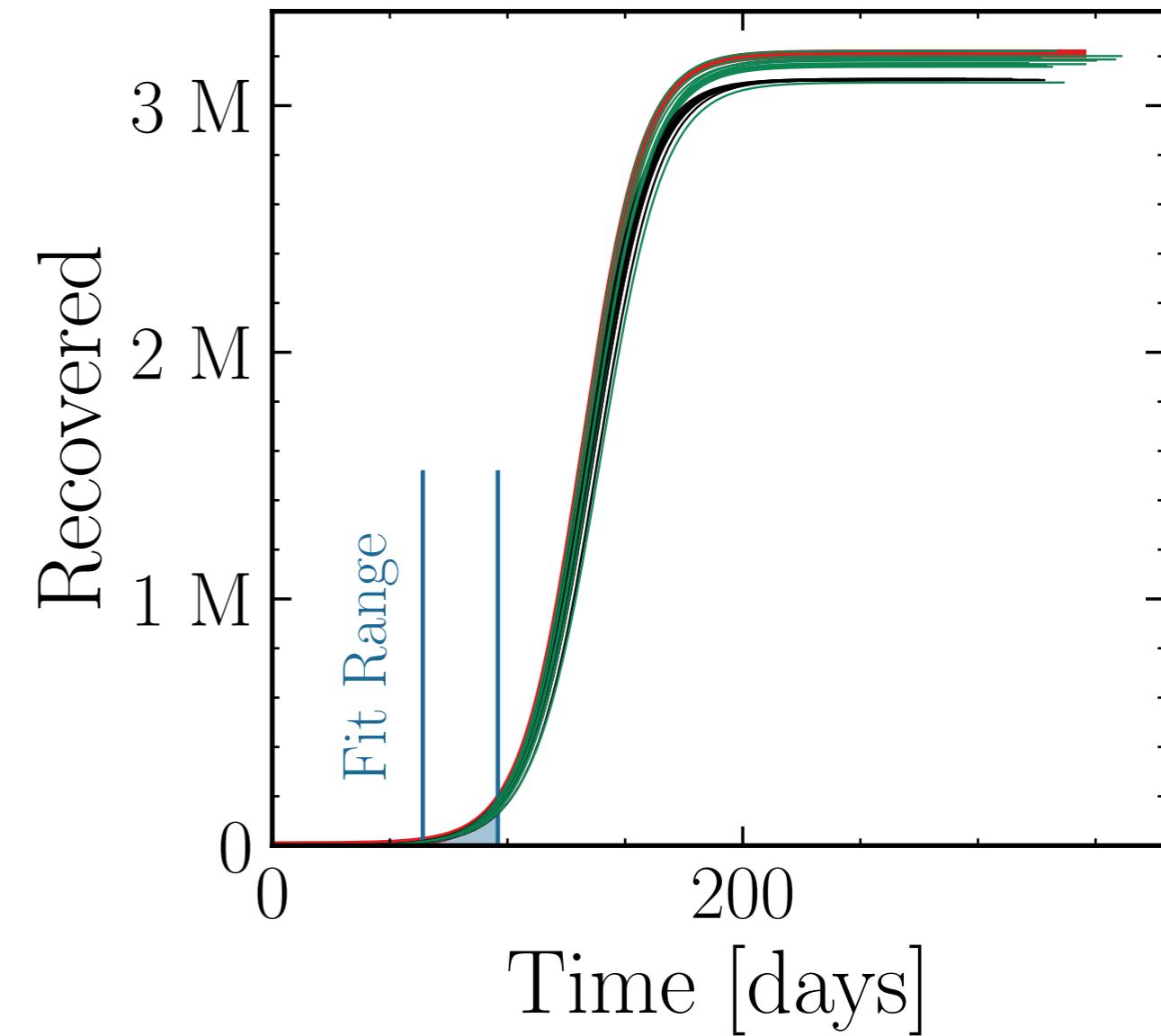
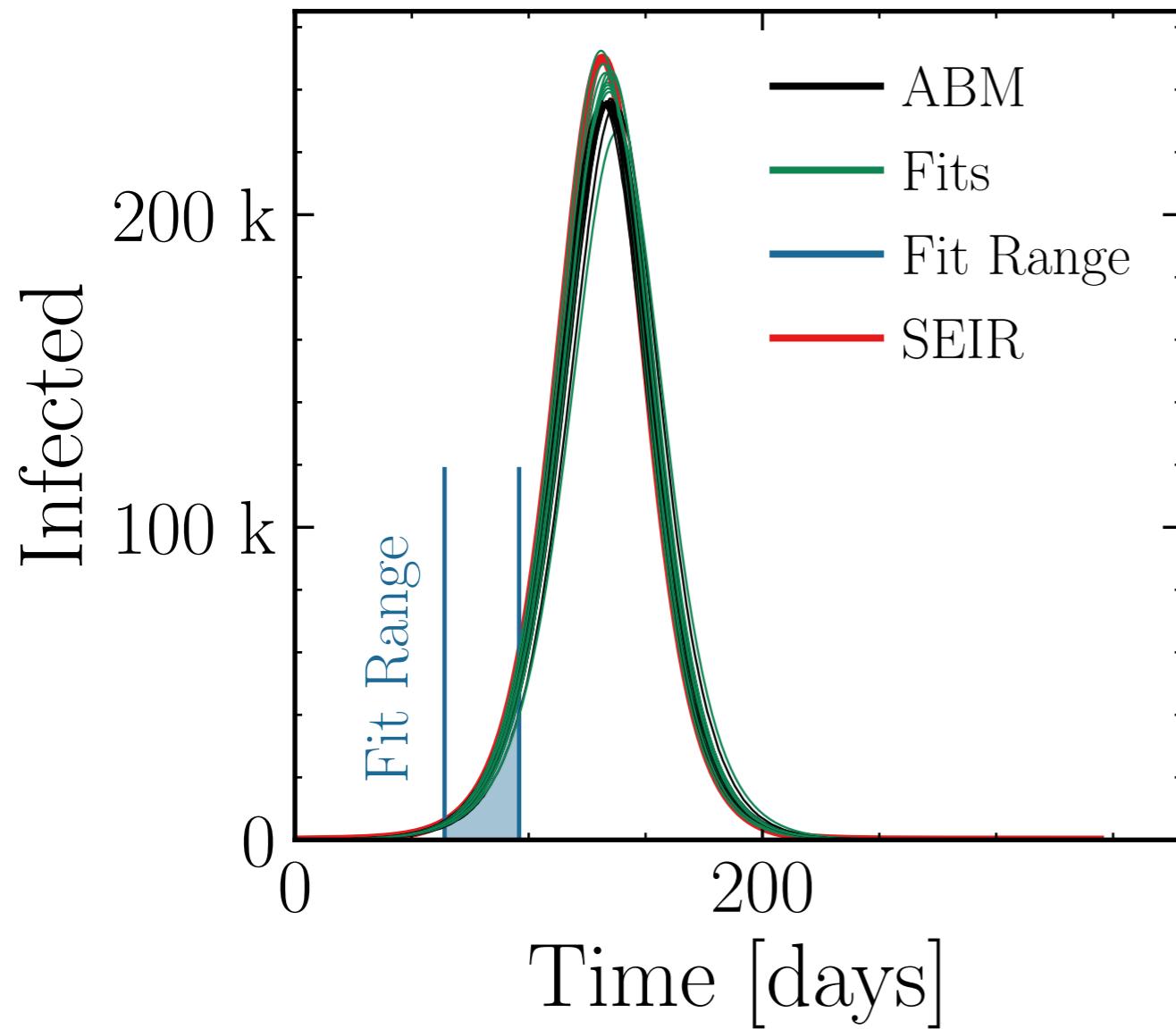
$N_{\text{tot}} = 5M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (243 \pm 0.85\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (3.17 \pm 0.32\%) \cdot 10^6$$

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



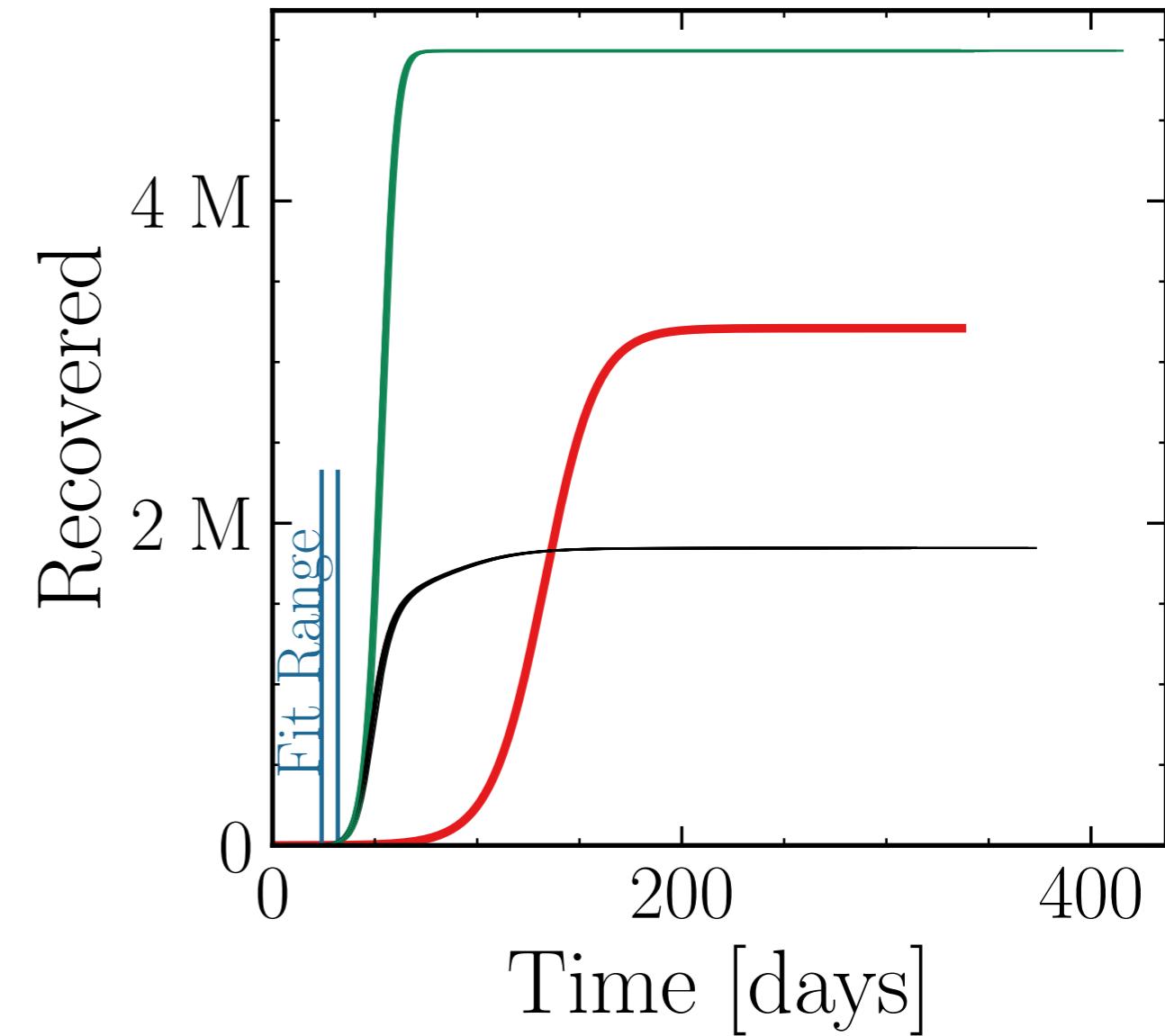
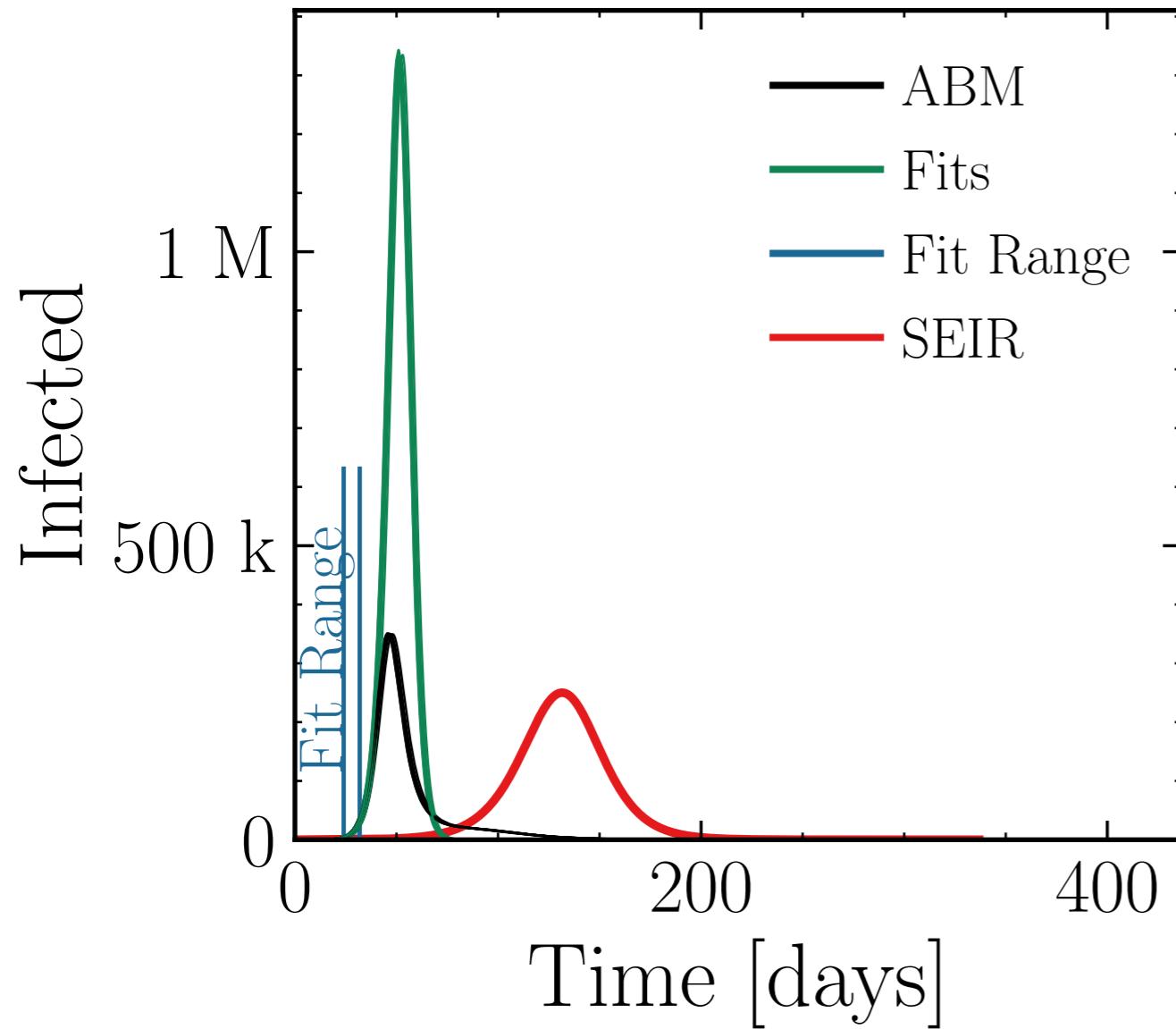
$N_{\text{tot}} = 5M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (1.331 \pm 0.15\%) \cdot 10^6$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{max}}} = 3.8 \pm 0.0057$$

$$R_{\infty}^{\text{fit}} = (4.9322 \pm 0.016\%) \cdot 10^6$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.6723 \pm 0.00057$$



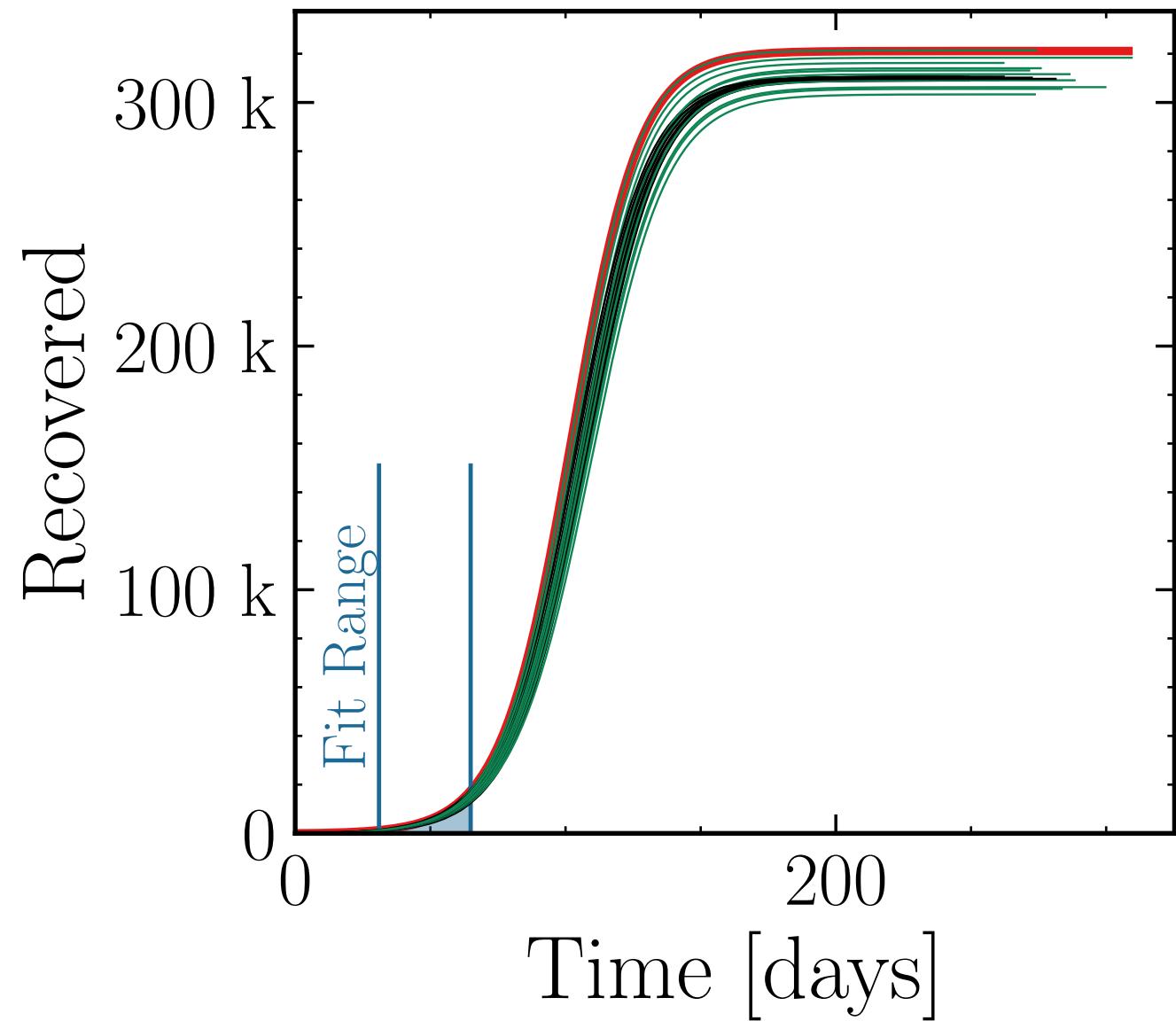
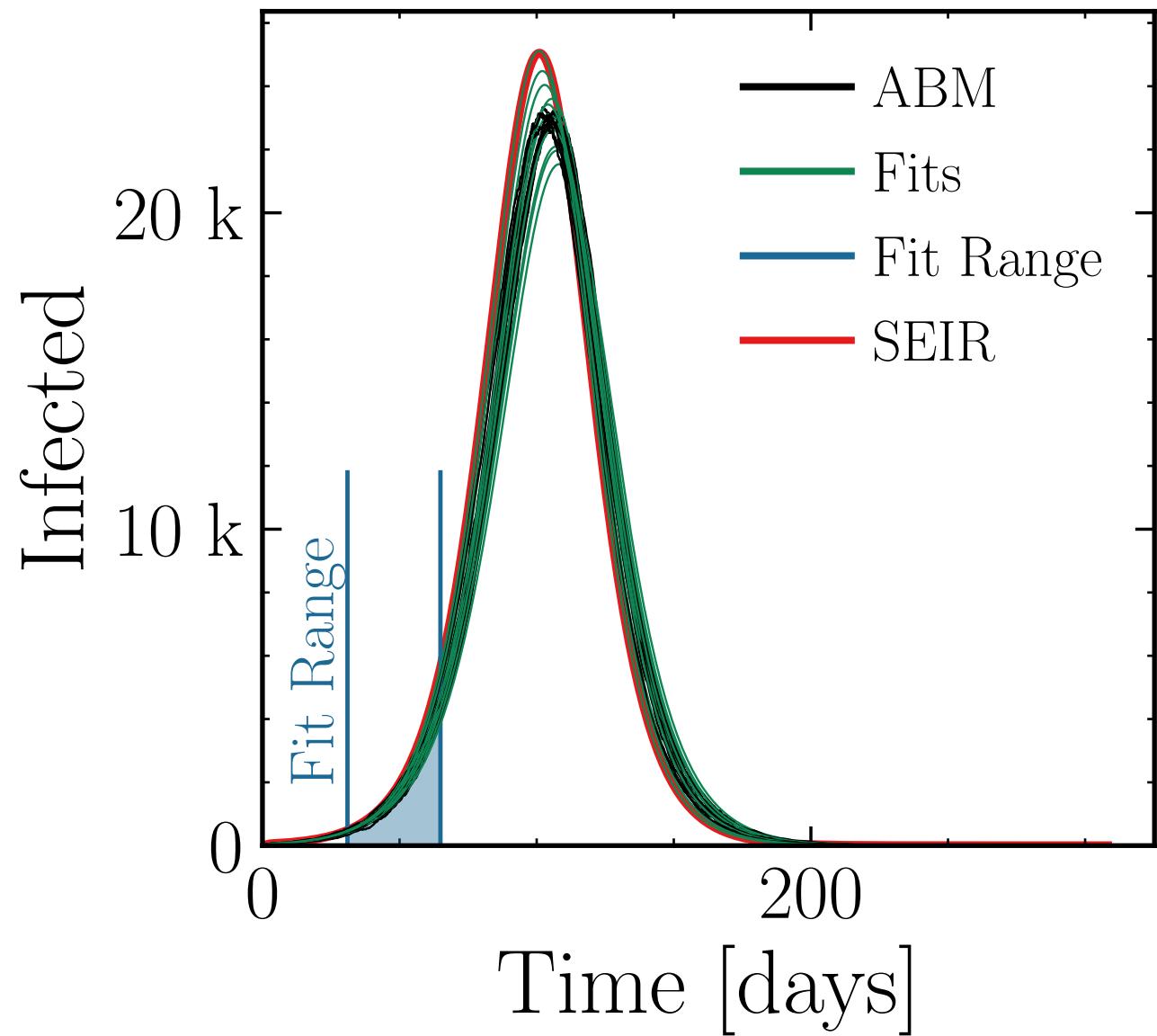
$N_{\text{tot}} = 500K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (23.2 \pm 1.5\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (312 \pm 0.57\%) \cdot 10^3$$

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



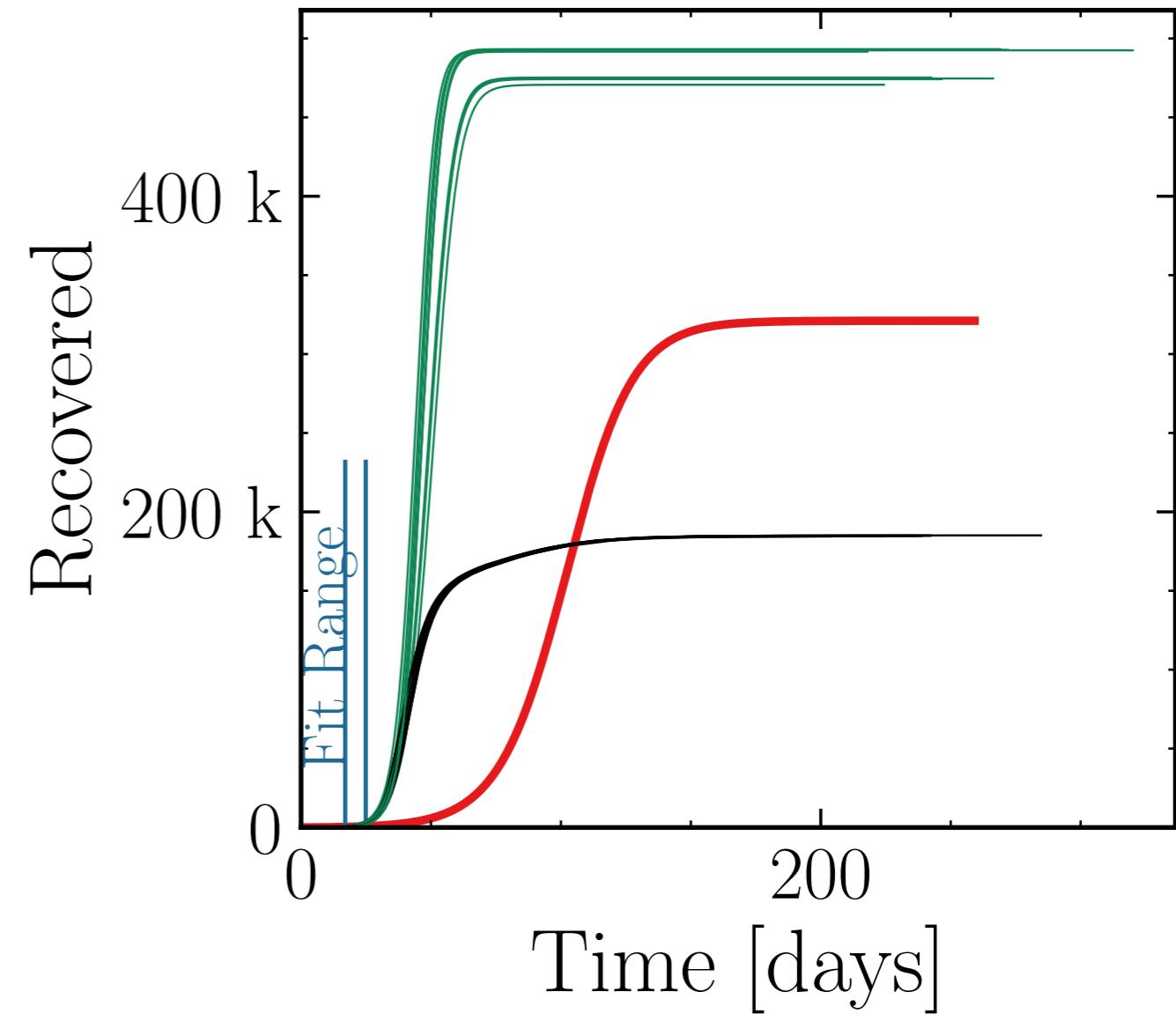
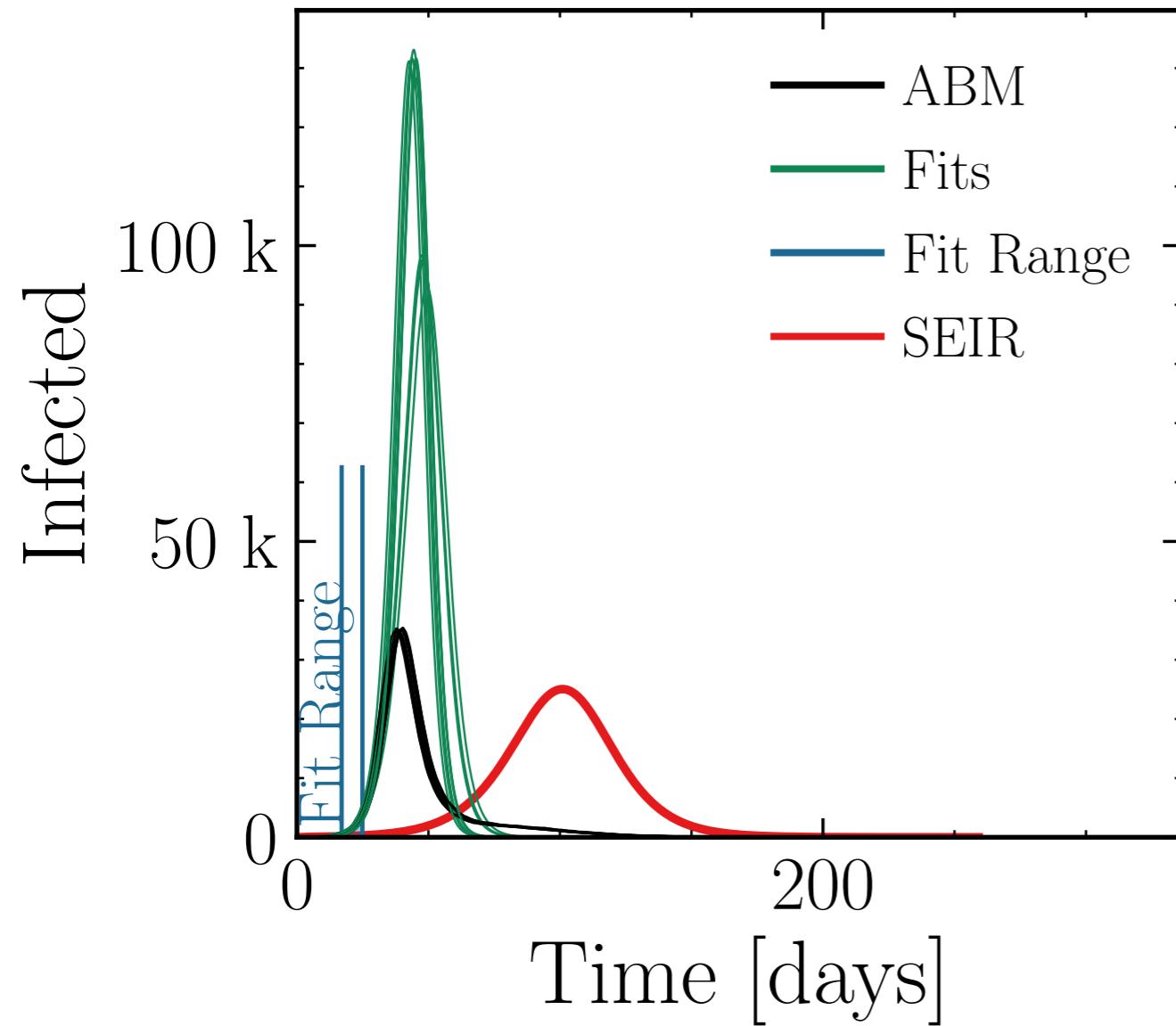
$N_{\text{tot}} = 500K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (117 \pm 4.6\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (485 \pm 0.61\%) \cdot 10^3$$

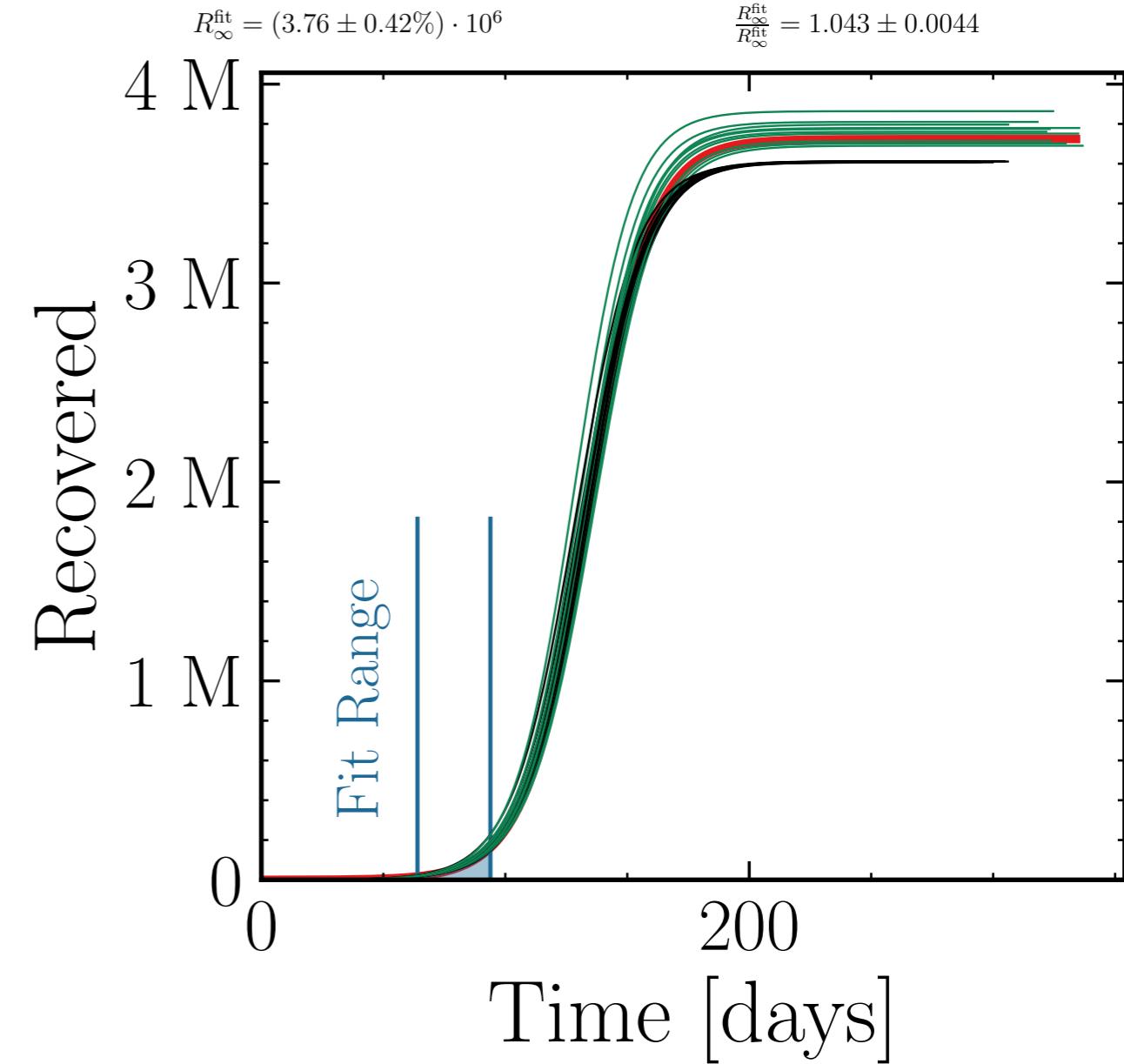
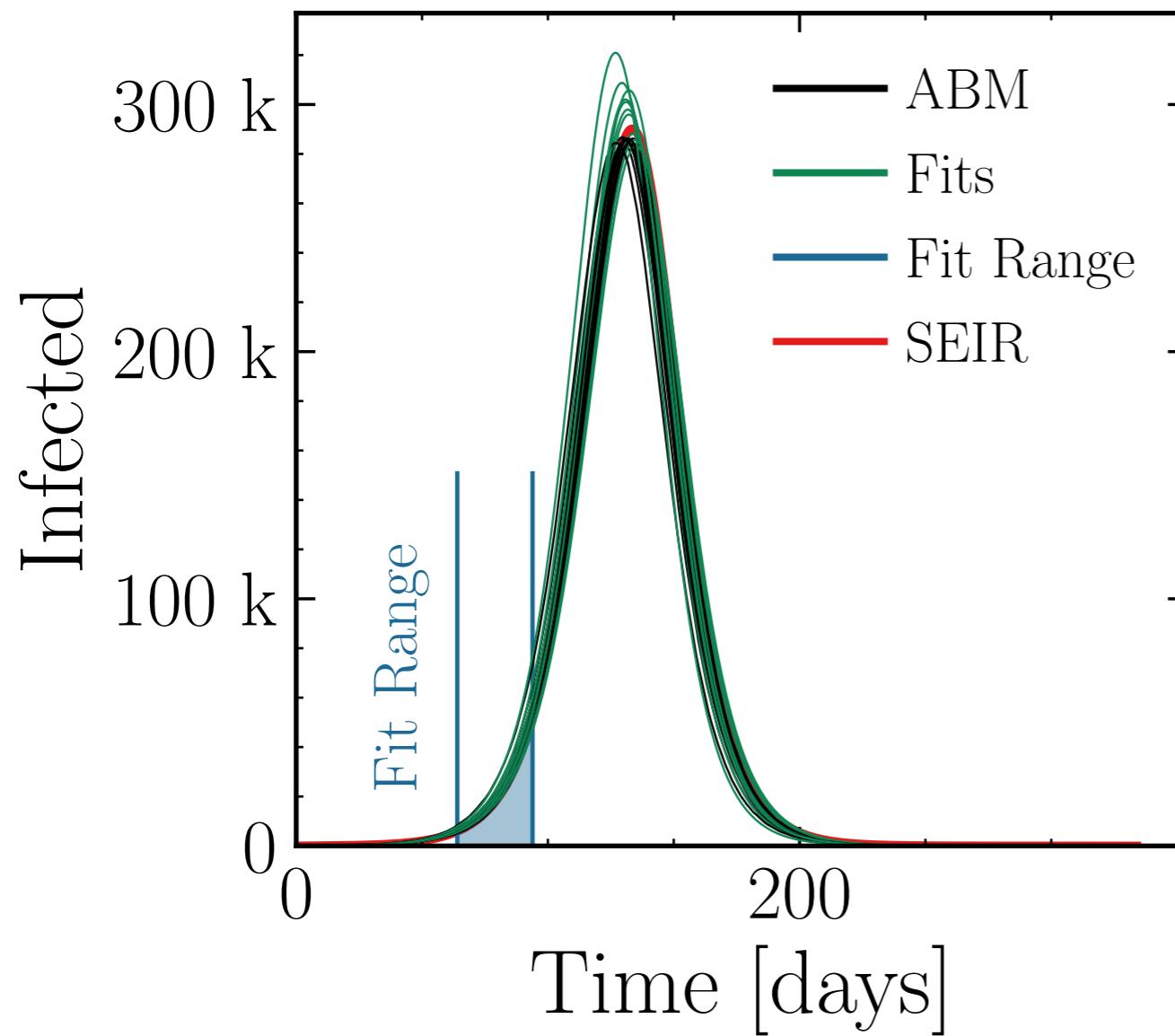
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.62 \pm 0.015$$



$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (299 \pm 1.2\%) \cdot 10^3$$

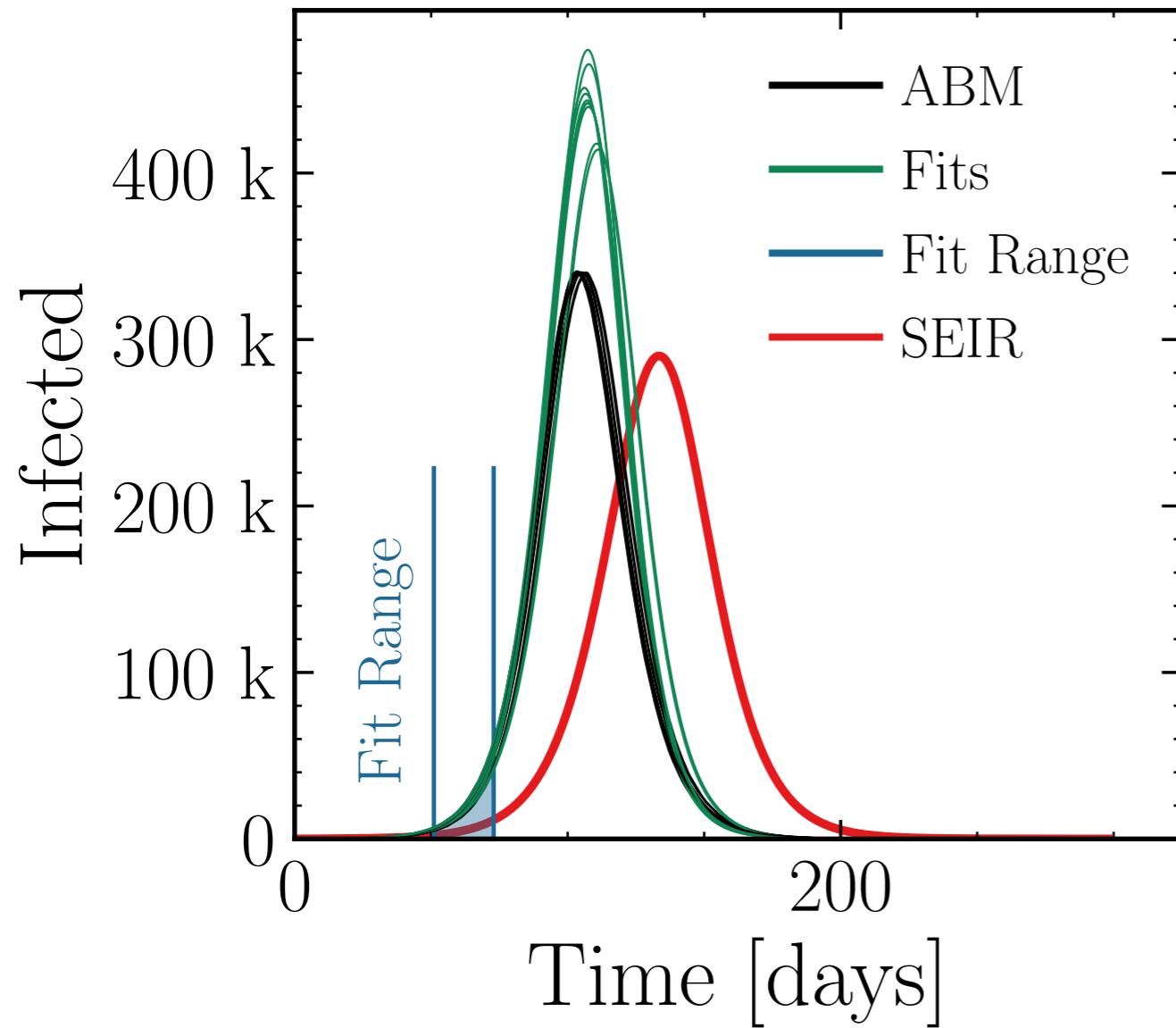
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.05 \pm 0.012$$



$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

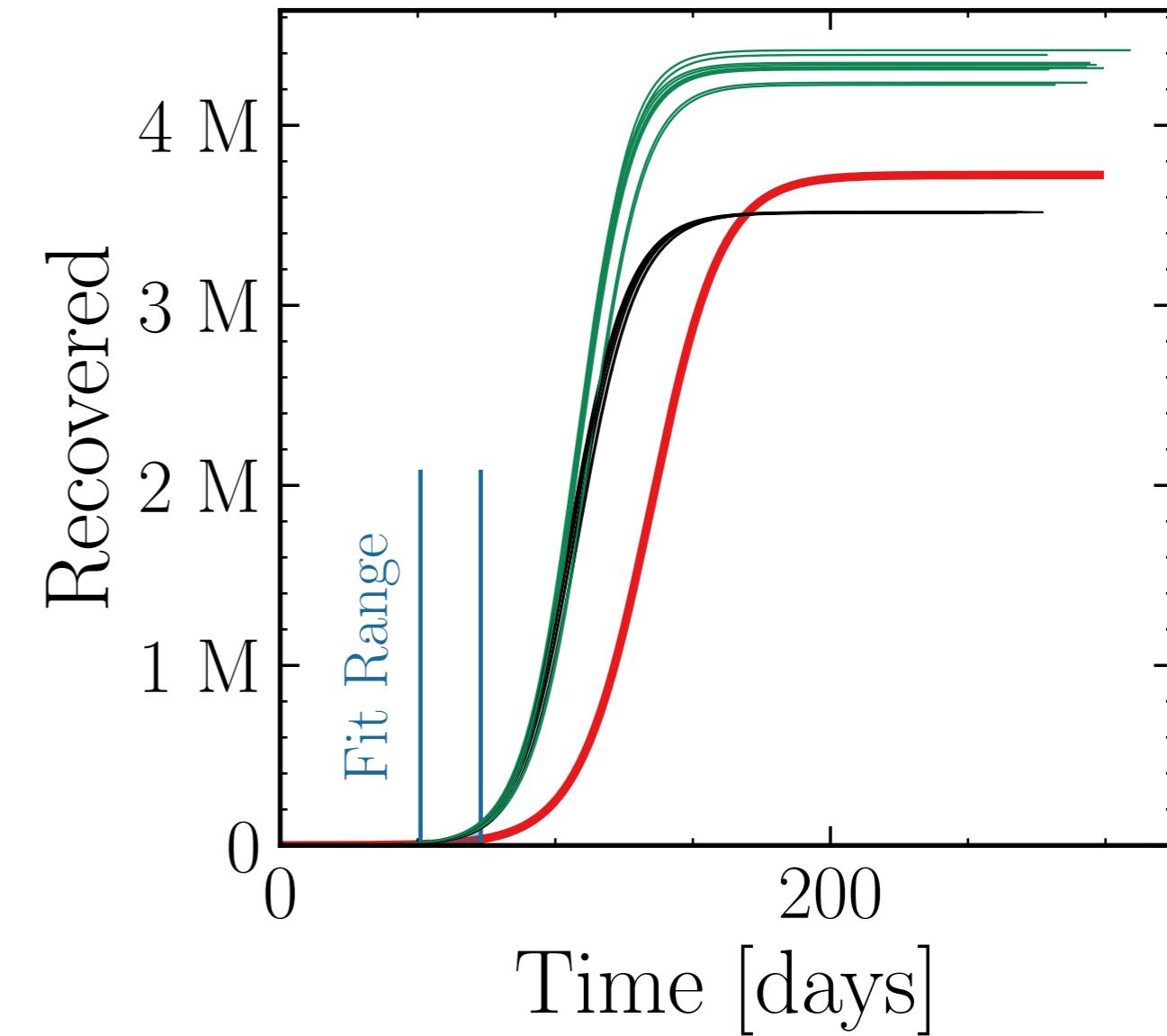
$$I_{\max}^{\text{fit}} = (444 \pm 1.2\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.31 \pm 0.016$$

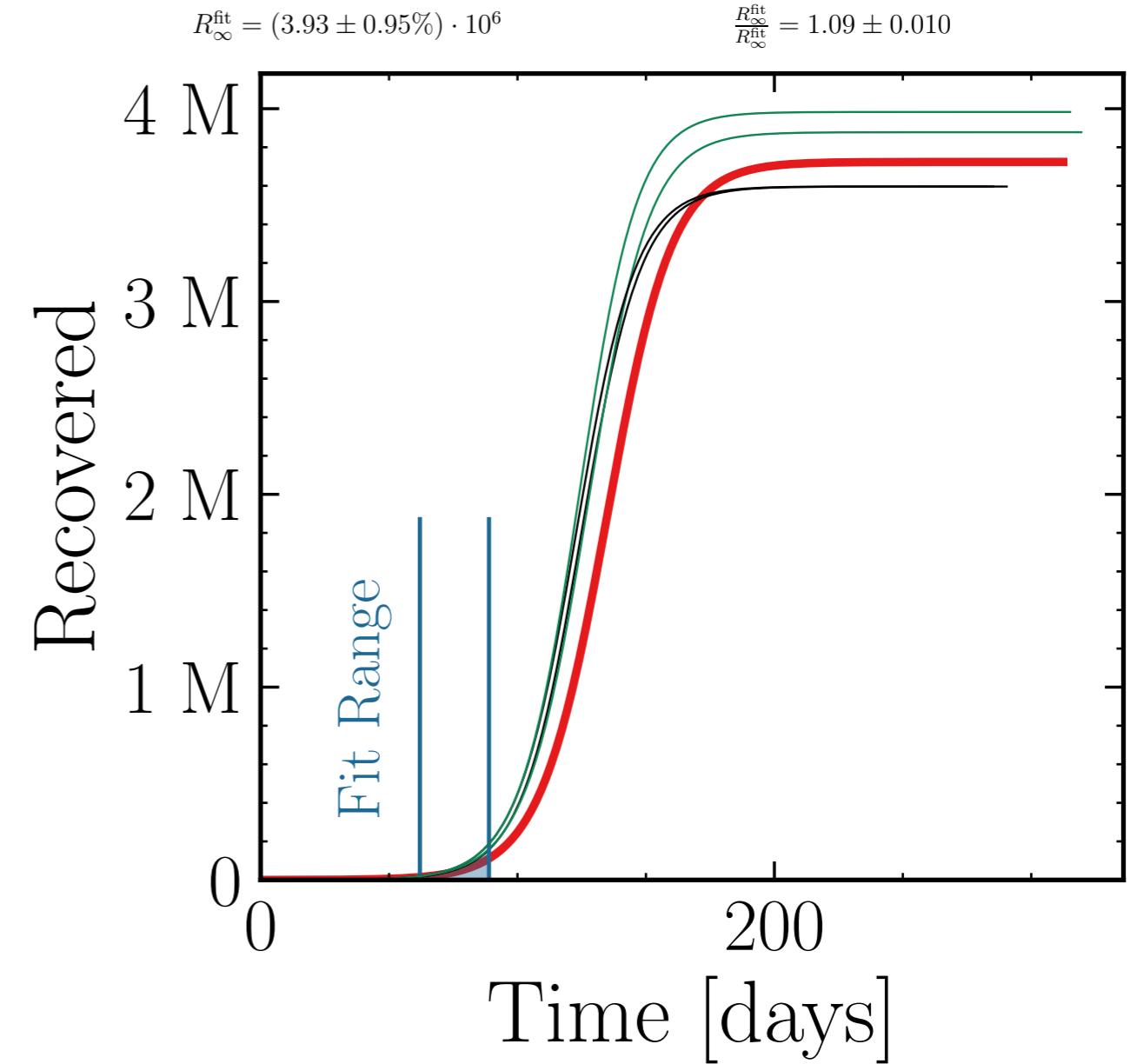
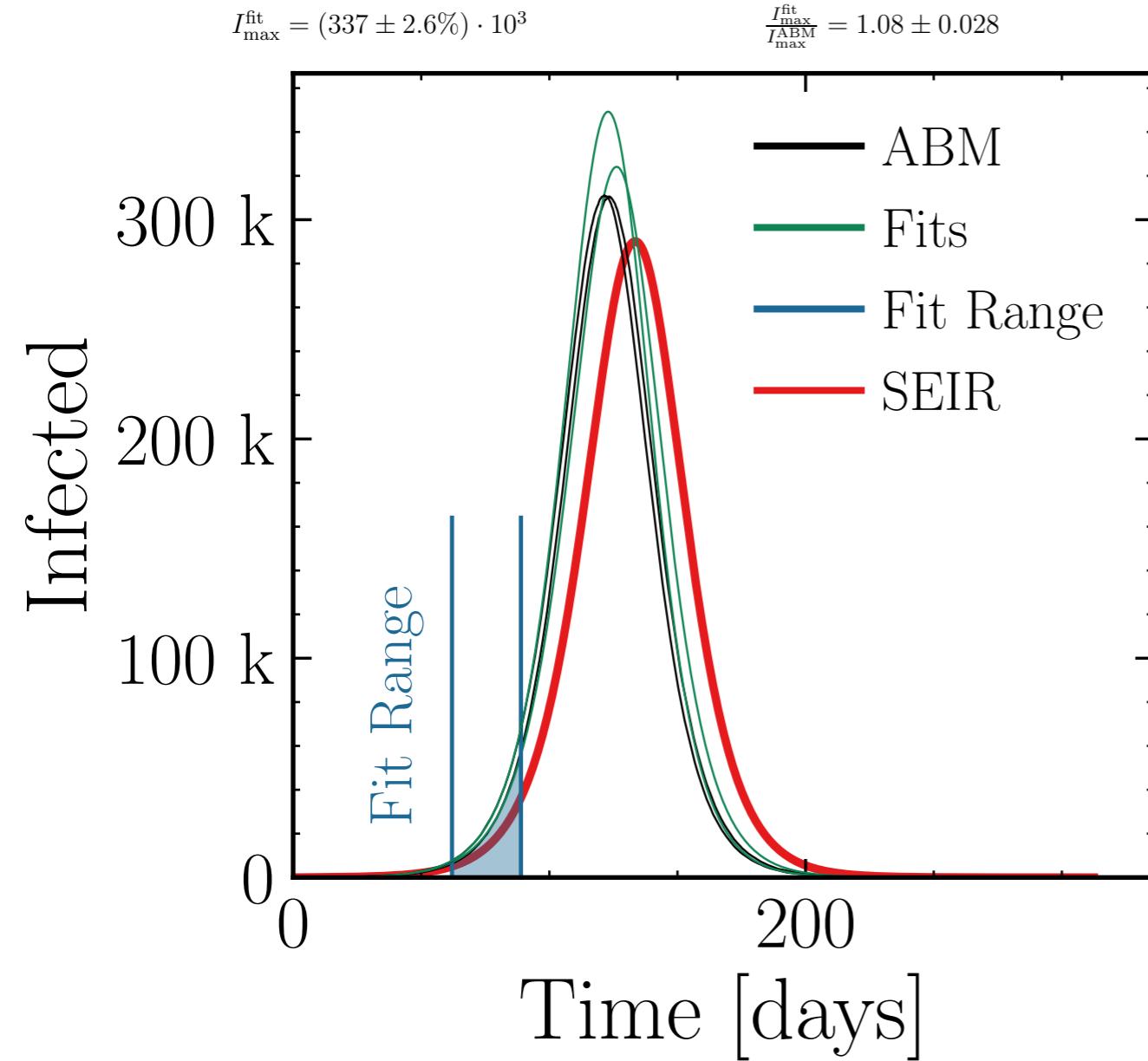


$$R_{\infty}^{\text{fit}} = (4.32 \pm 0.41\%) \cdot 10^6$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.229 \pm 0.0050$$



$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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



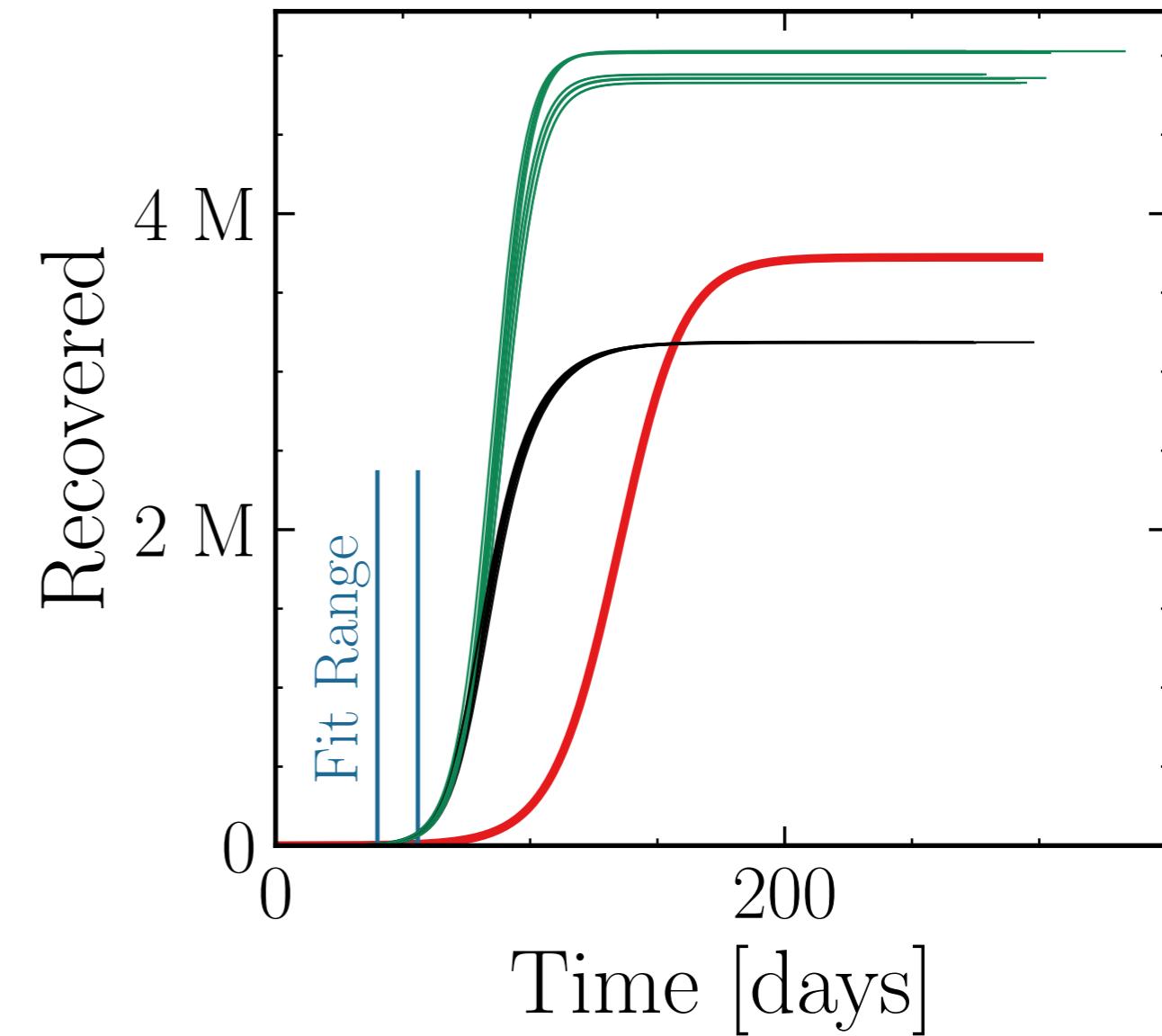
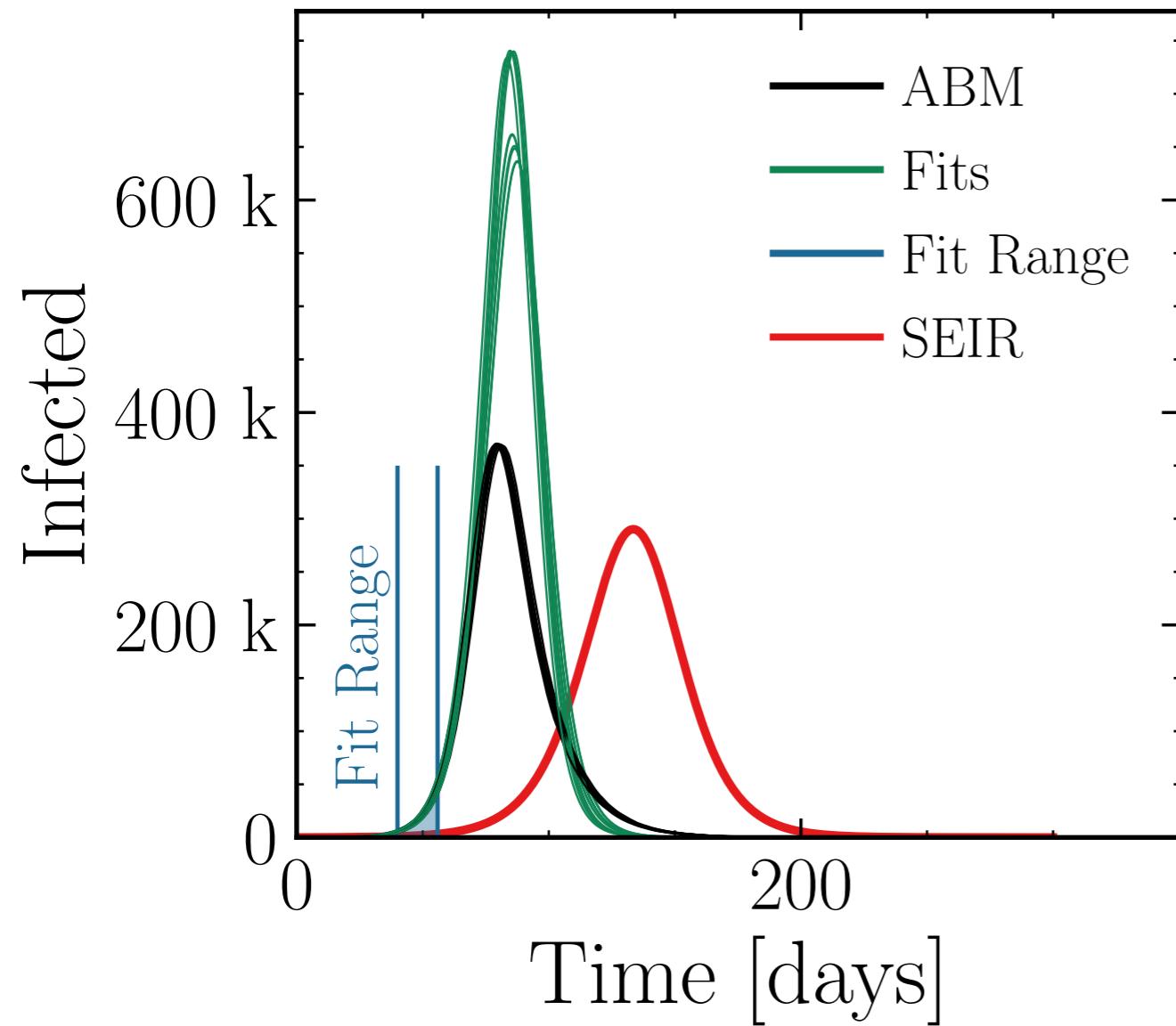
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (680 \pm 2.1\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.85 \pm 0.038$$

$$R_{\infty}^{\text{fit}} = (4.92 \pm 0.55\%) \cdot 10^6$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.545 \pm 0.0084$$



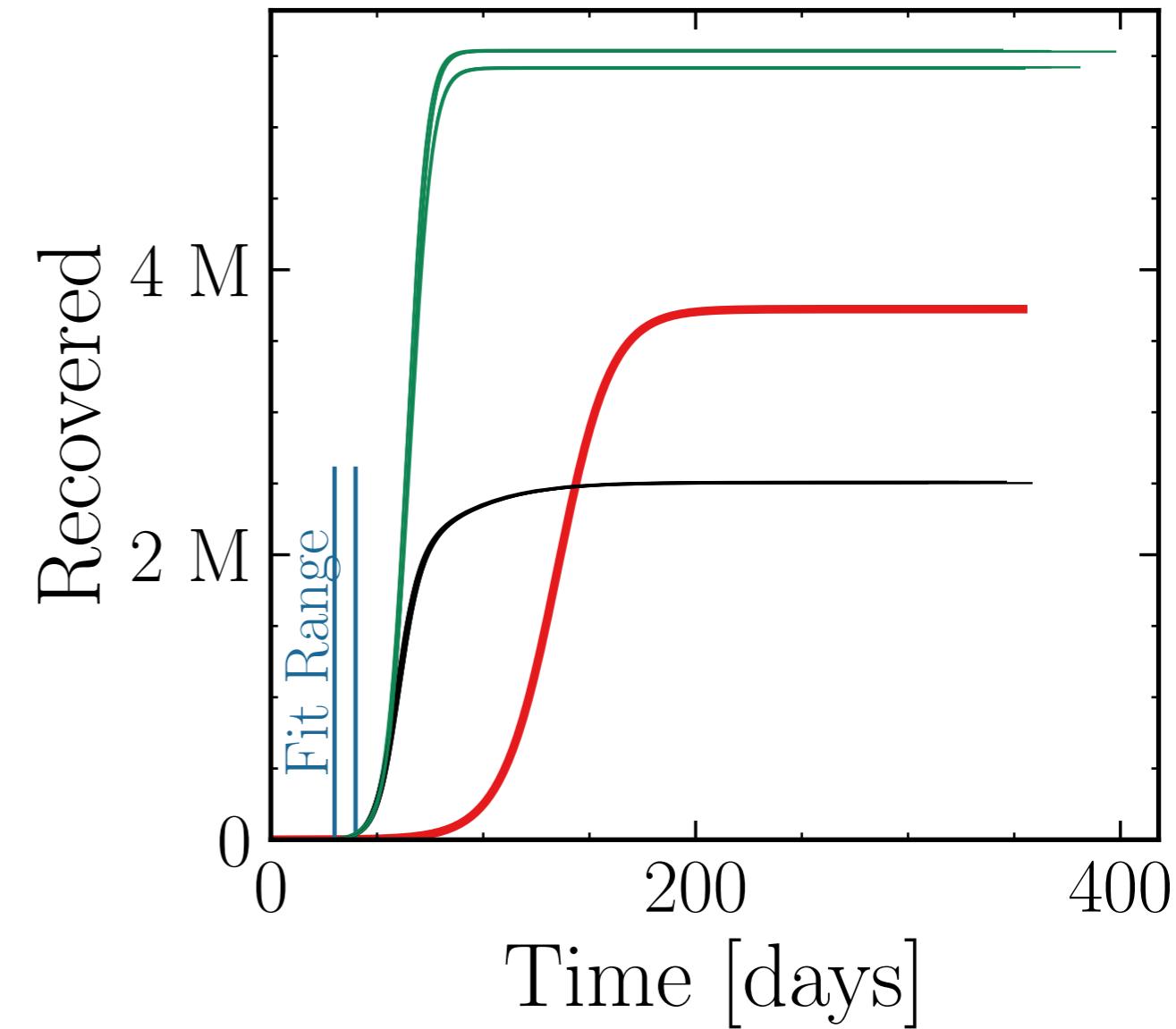
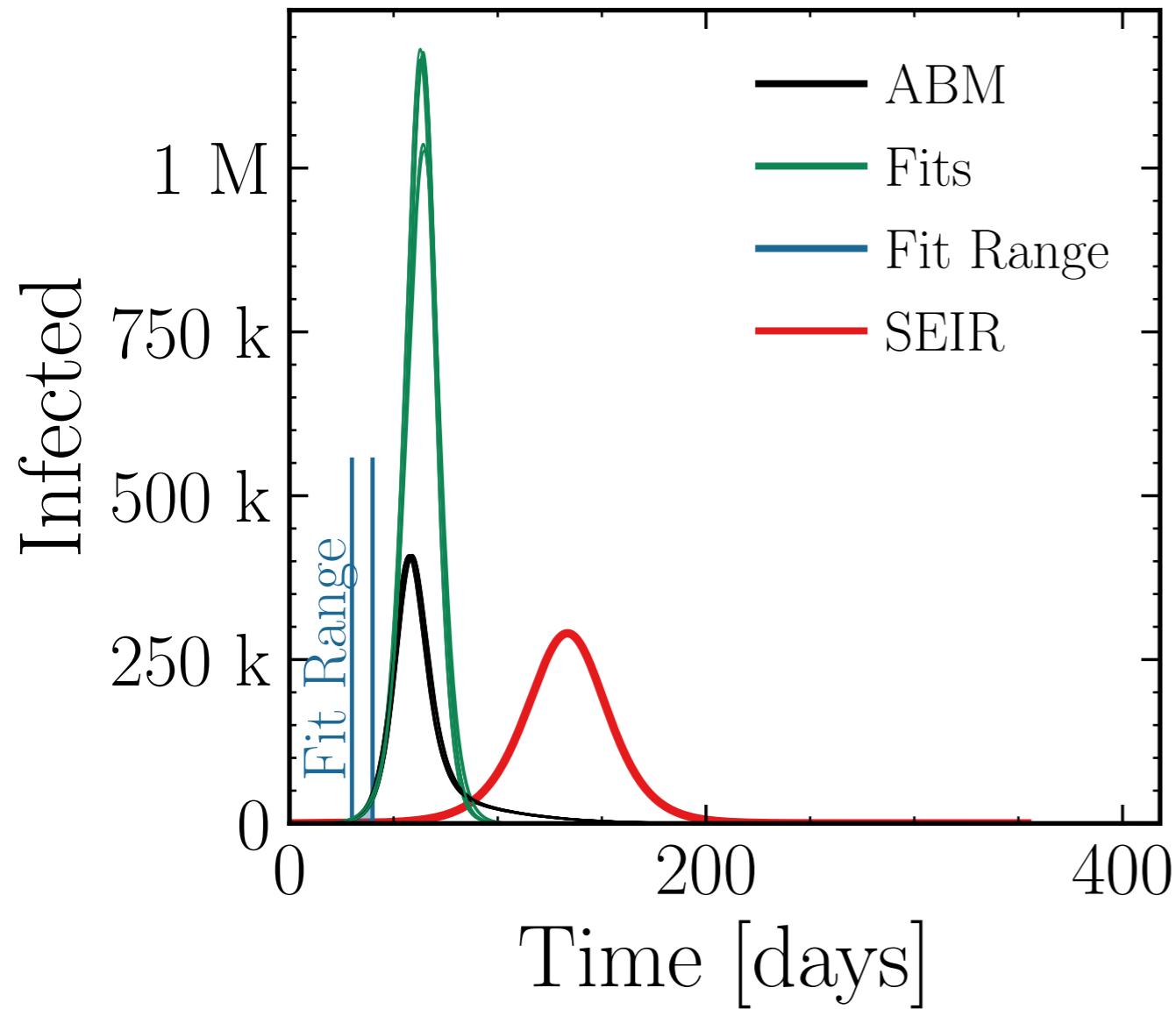
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (1.13 \pm 1.8\%) \cdot 10^6$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.76 \pm 0.049$$

$$R_{\infty}^{\text{fit}} = (5.5 \pm 0.31\%) \cdot 10^6$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.194 \pm 0.0072$$



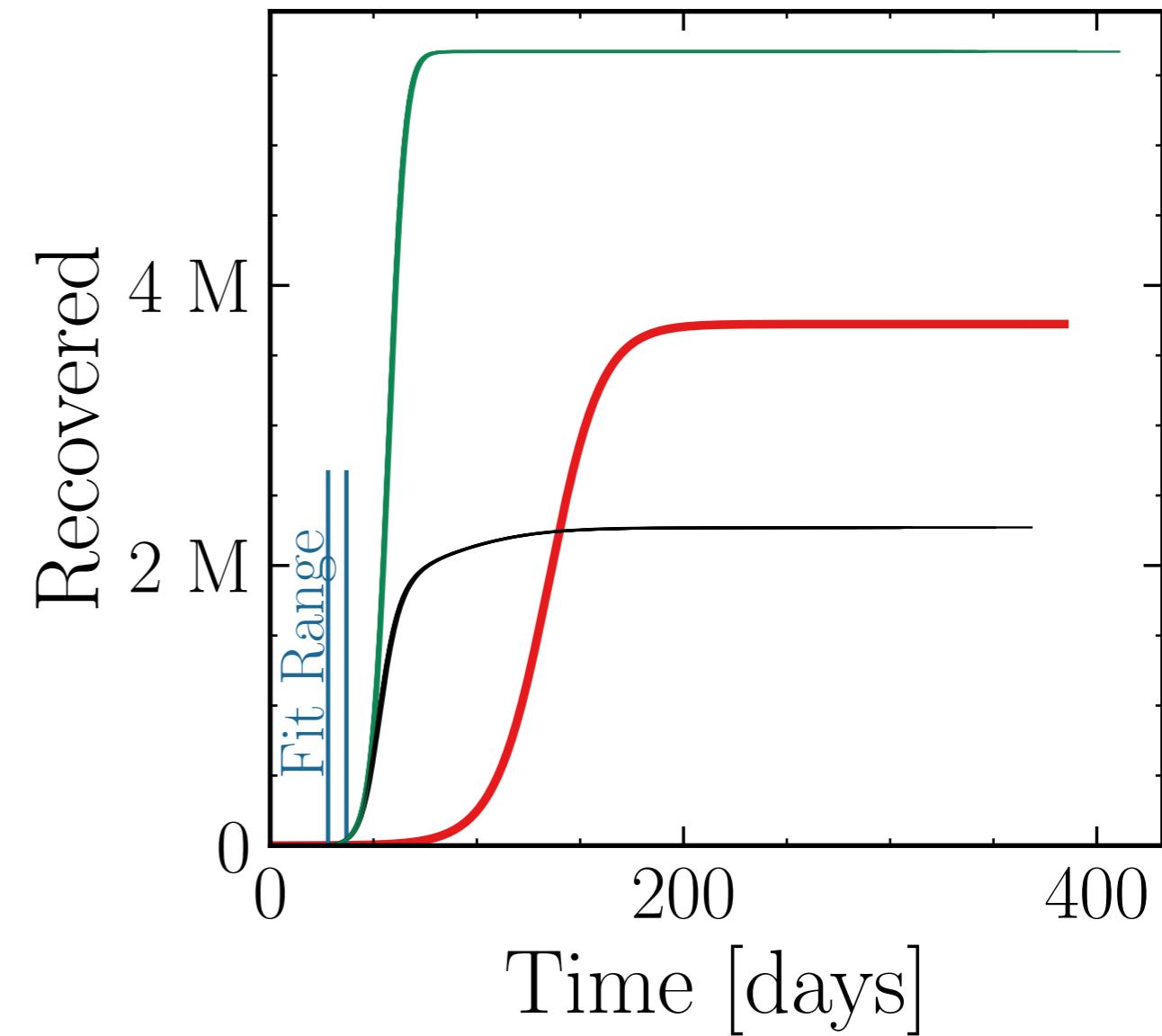
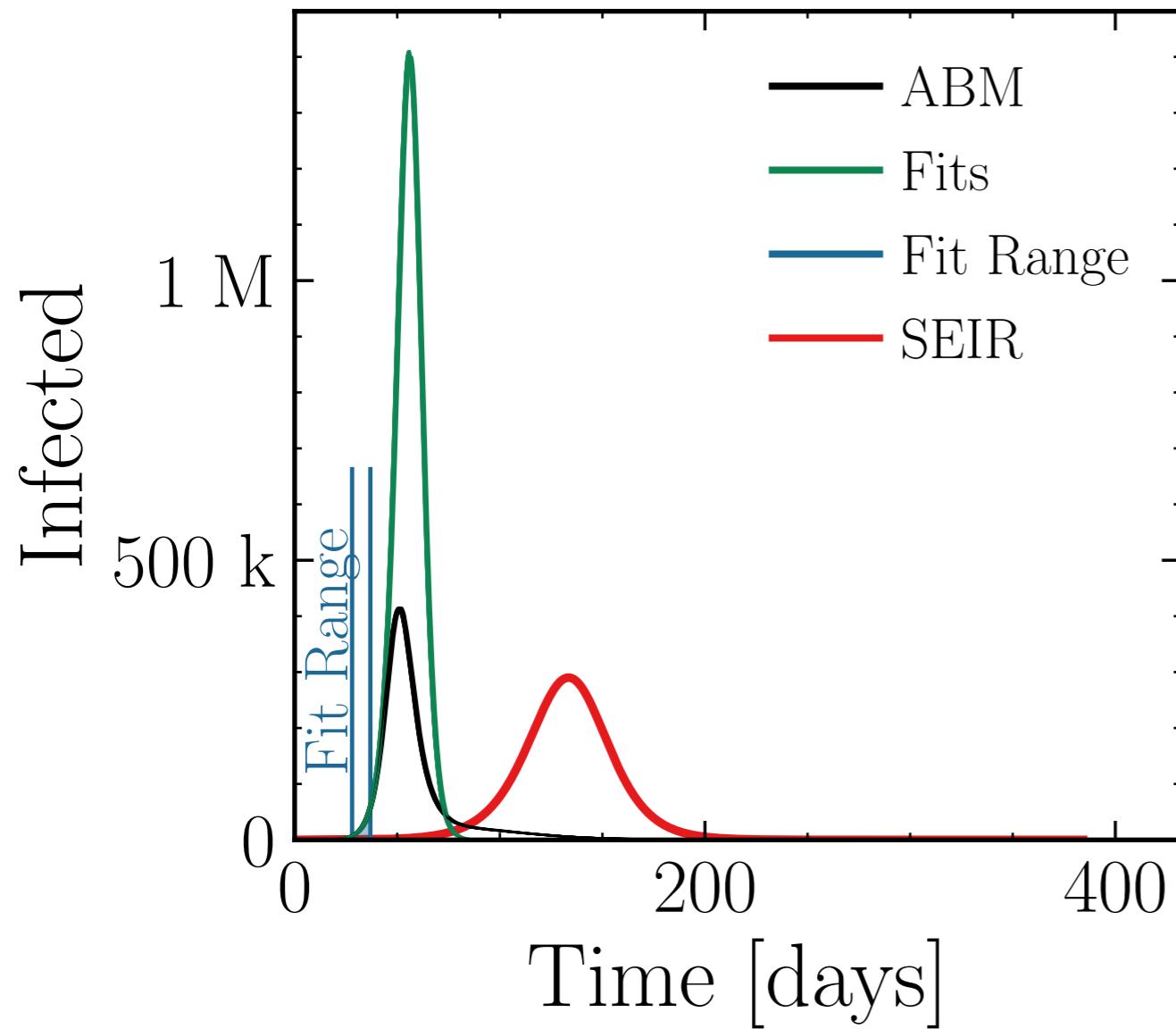
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (1.404 \pm 0.13\%) \cdot 10^6$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 3.386 \pm 0.0055$$

$$R_{\infty}^{\text{fit}} = (5.67 \pm 0.019\%) \cdot 10^6$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.4977 \pm 0.00076$$



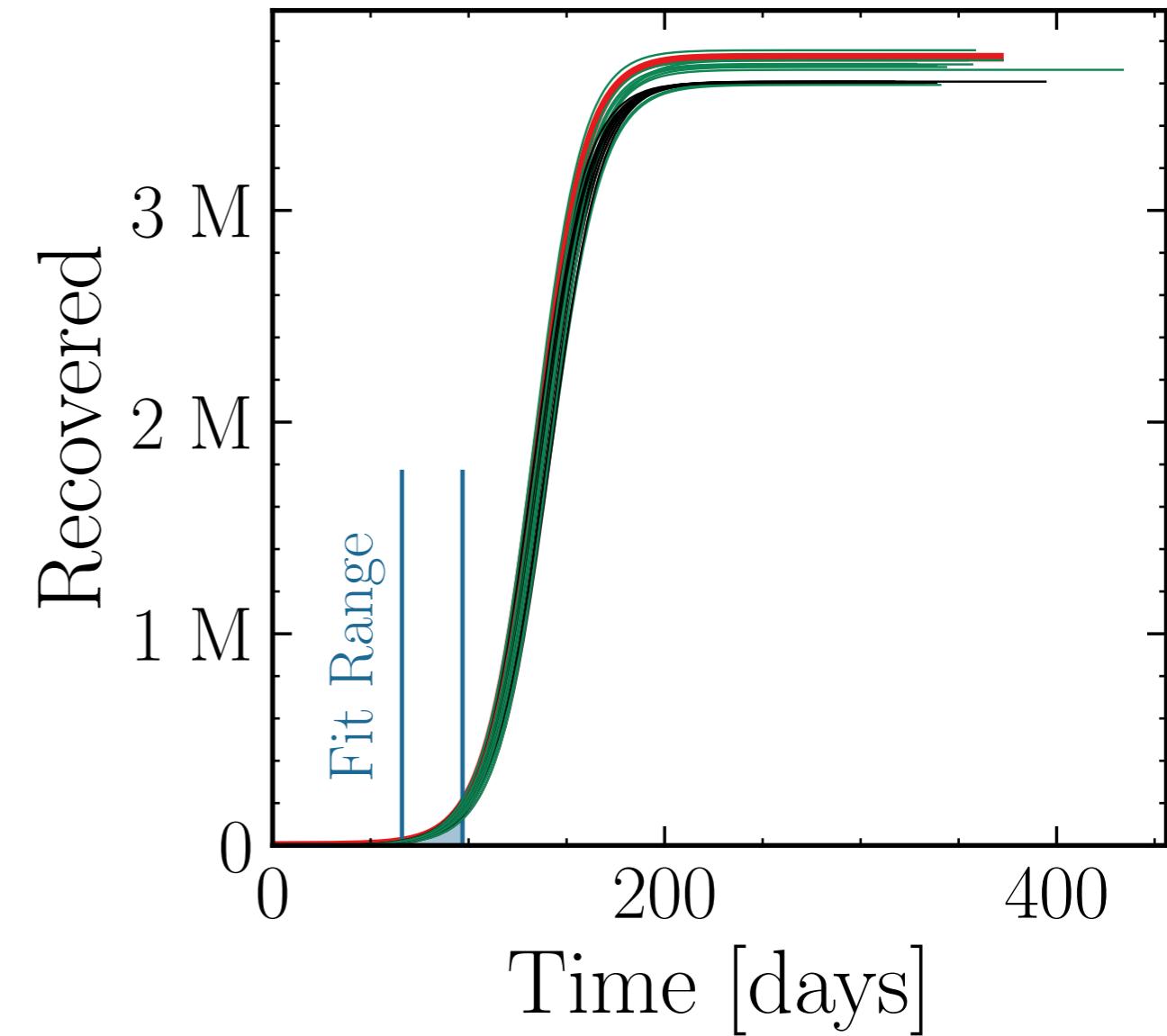
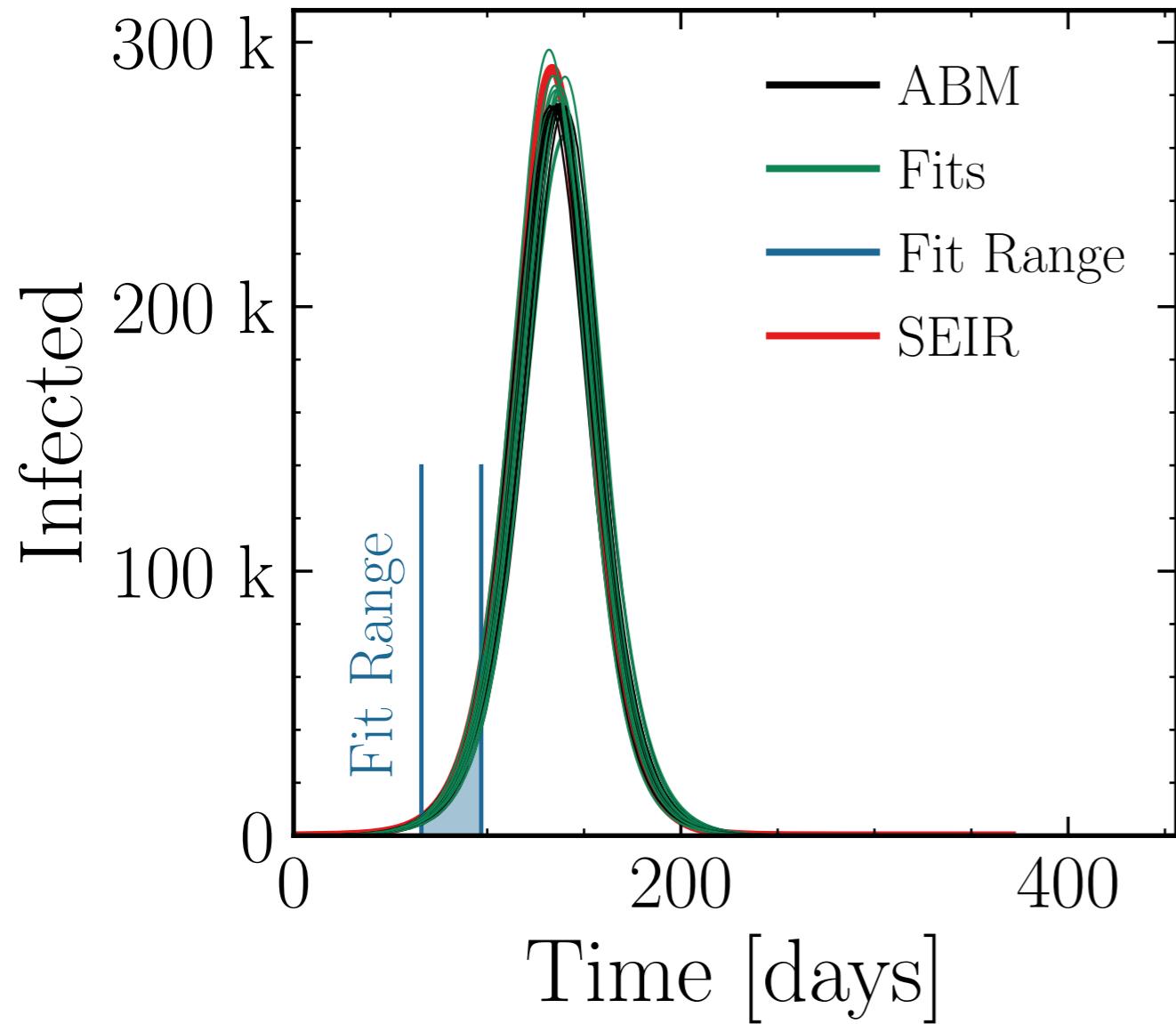
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (281 \pm 1.1\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.02 \pm 0.011$$

$$R_{\infty}^{\text{fit}} = (3.68 \pm 0.41\%) \cdot 10^6$$

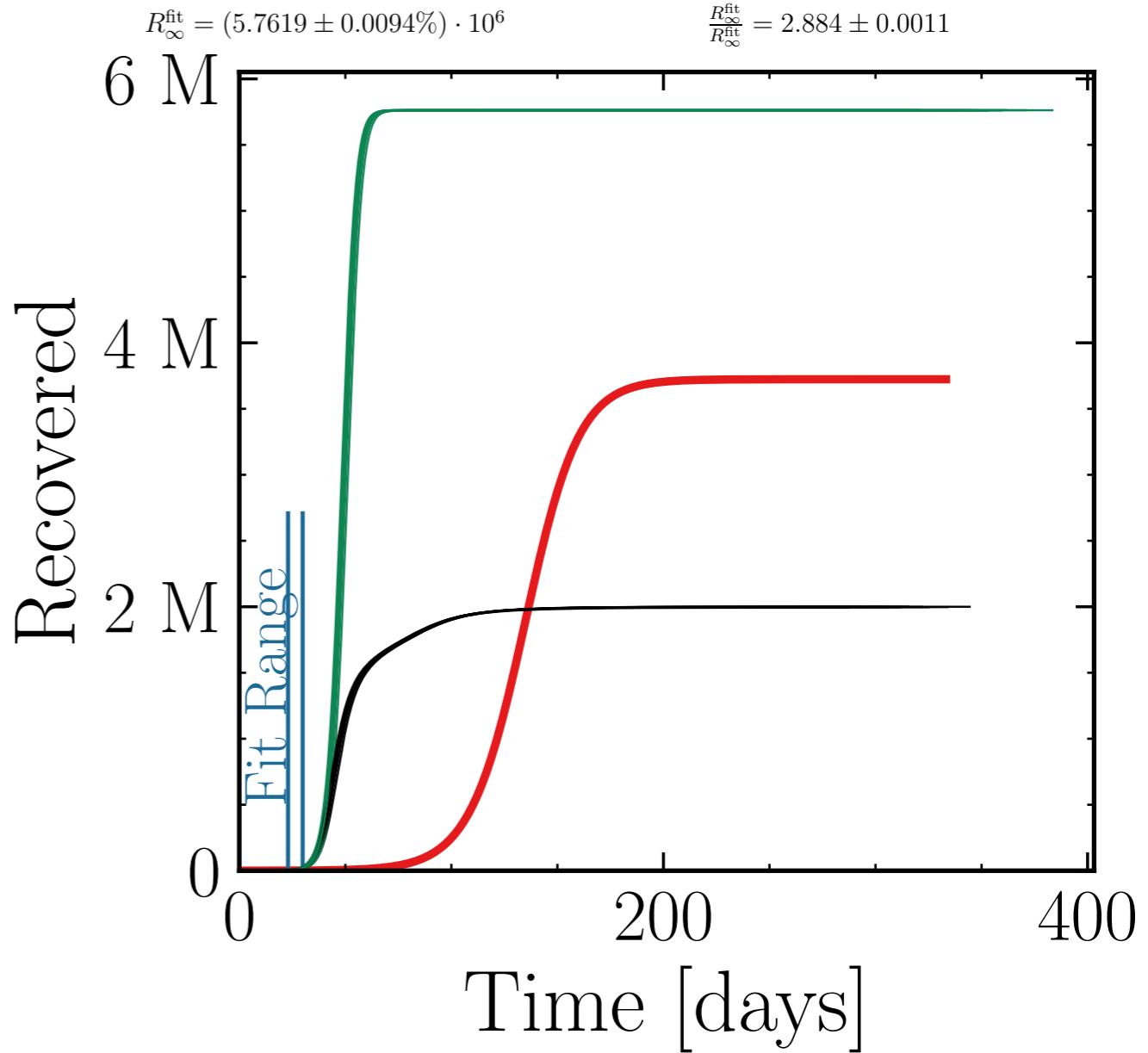
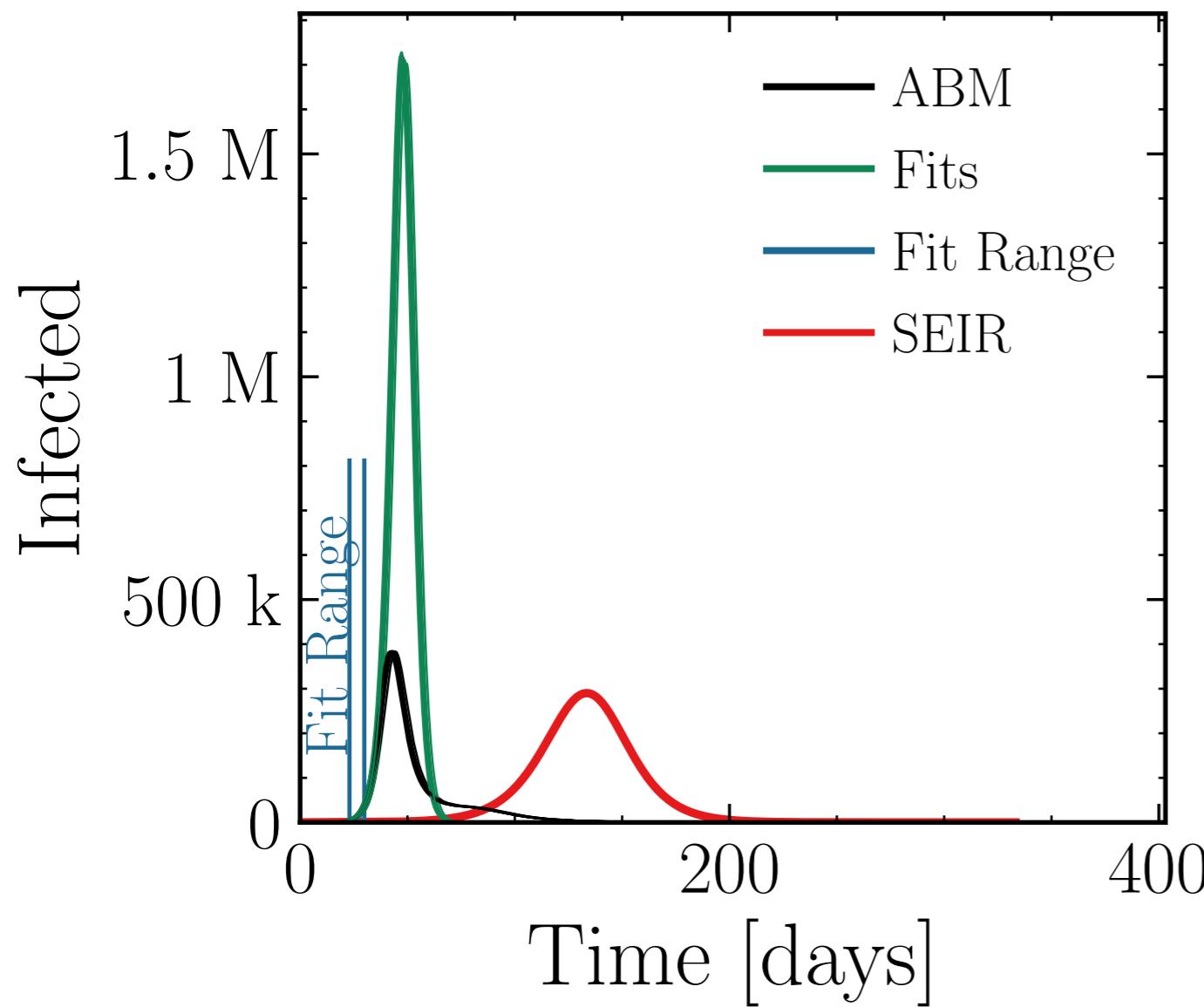
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.02 \pm 0.0041$$



$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (1.717 \pm 0.13\%) \cdot 10^6$$

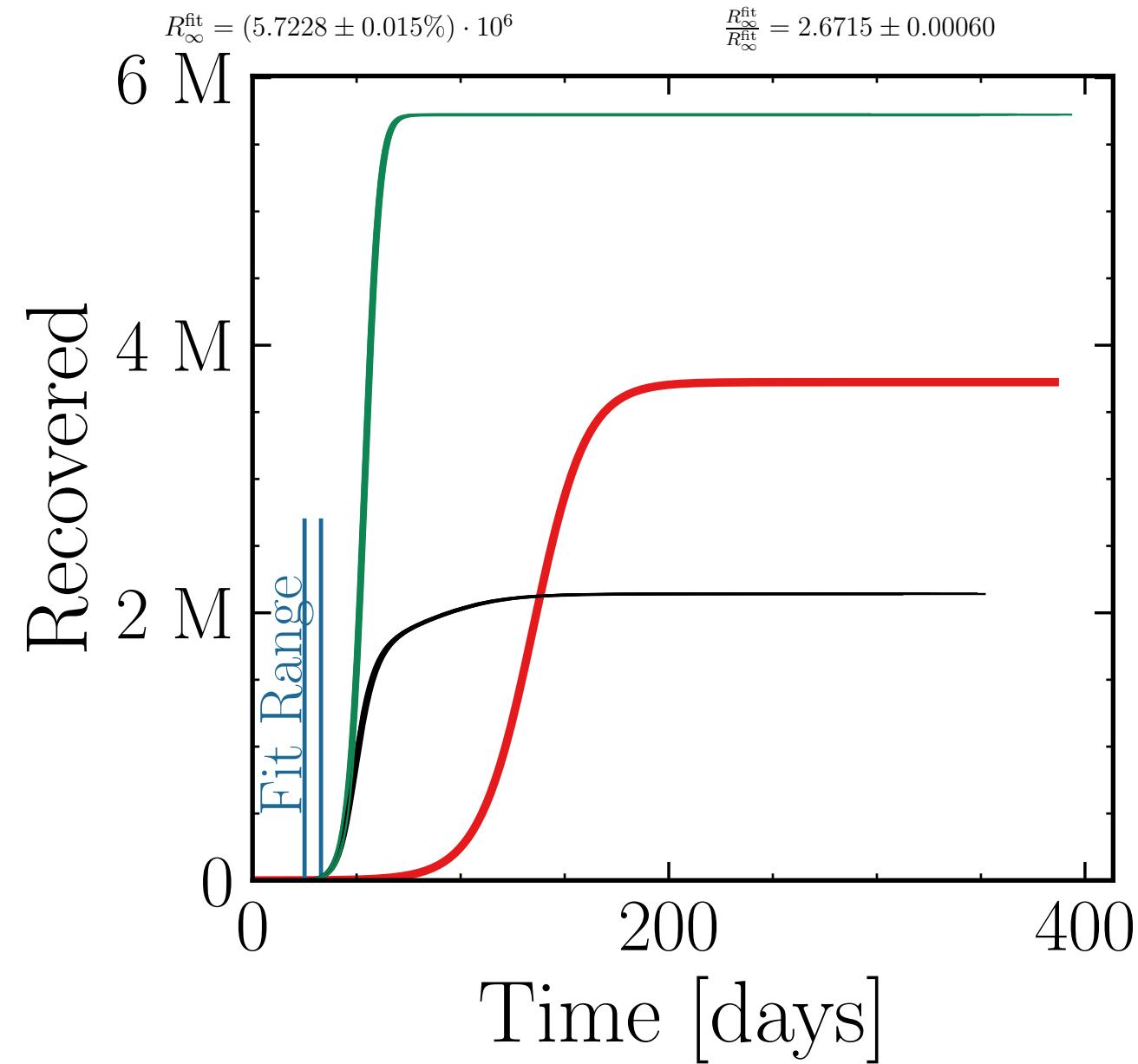
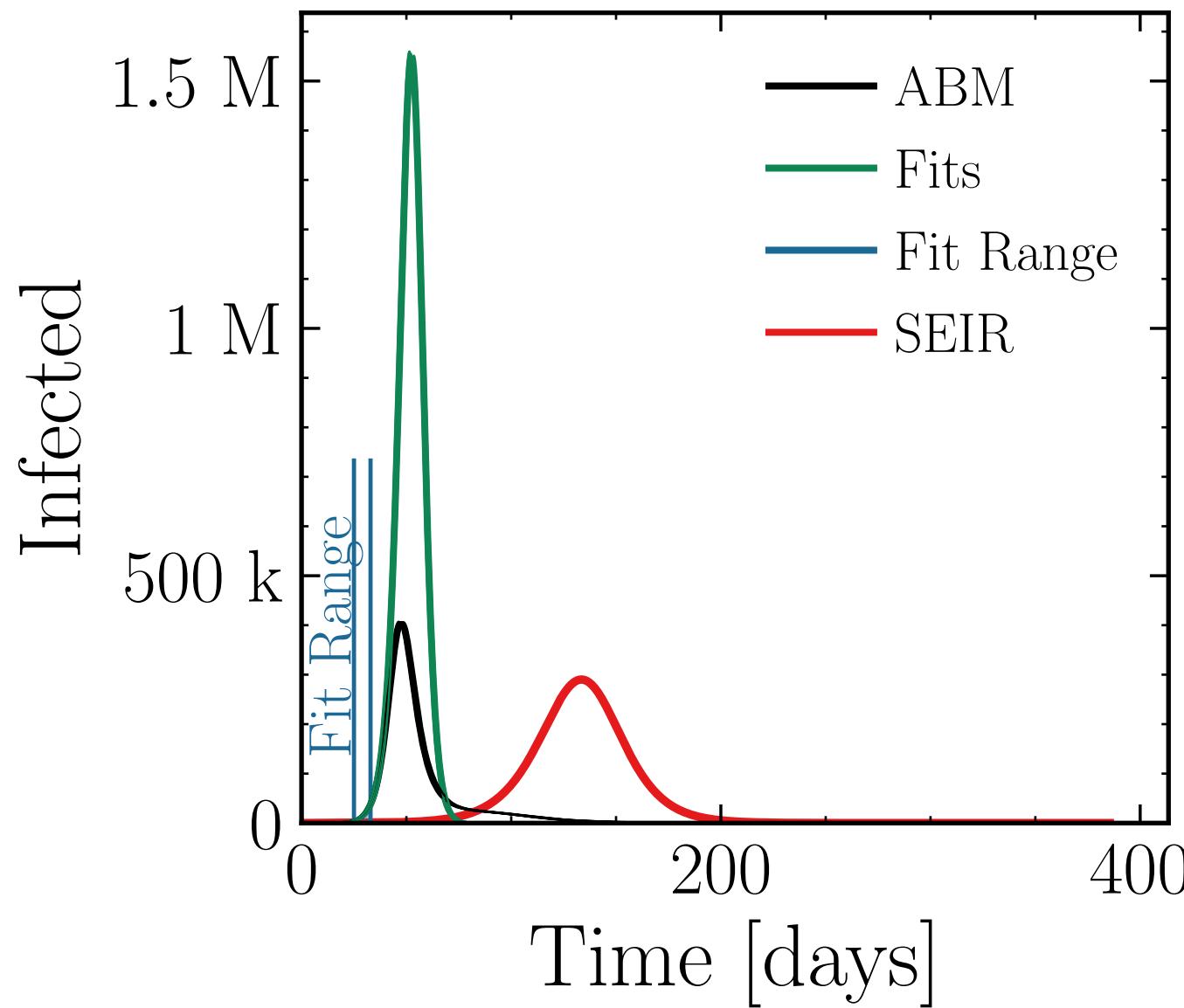
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{max}}} = 4.473 \pm 0.0063$$



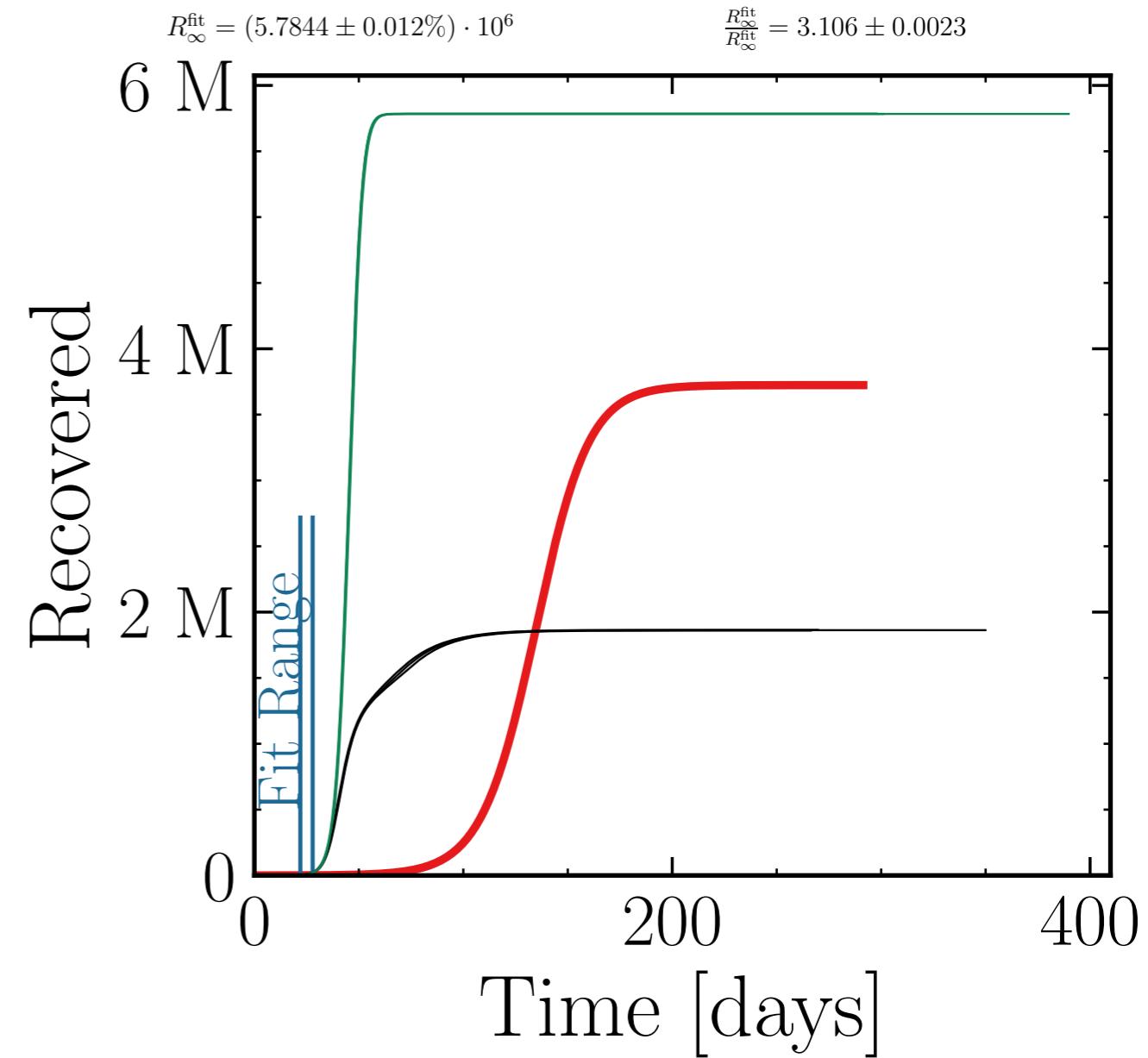
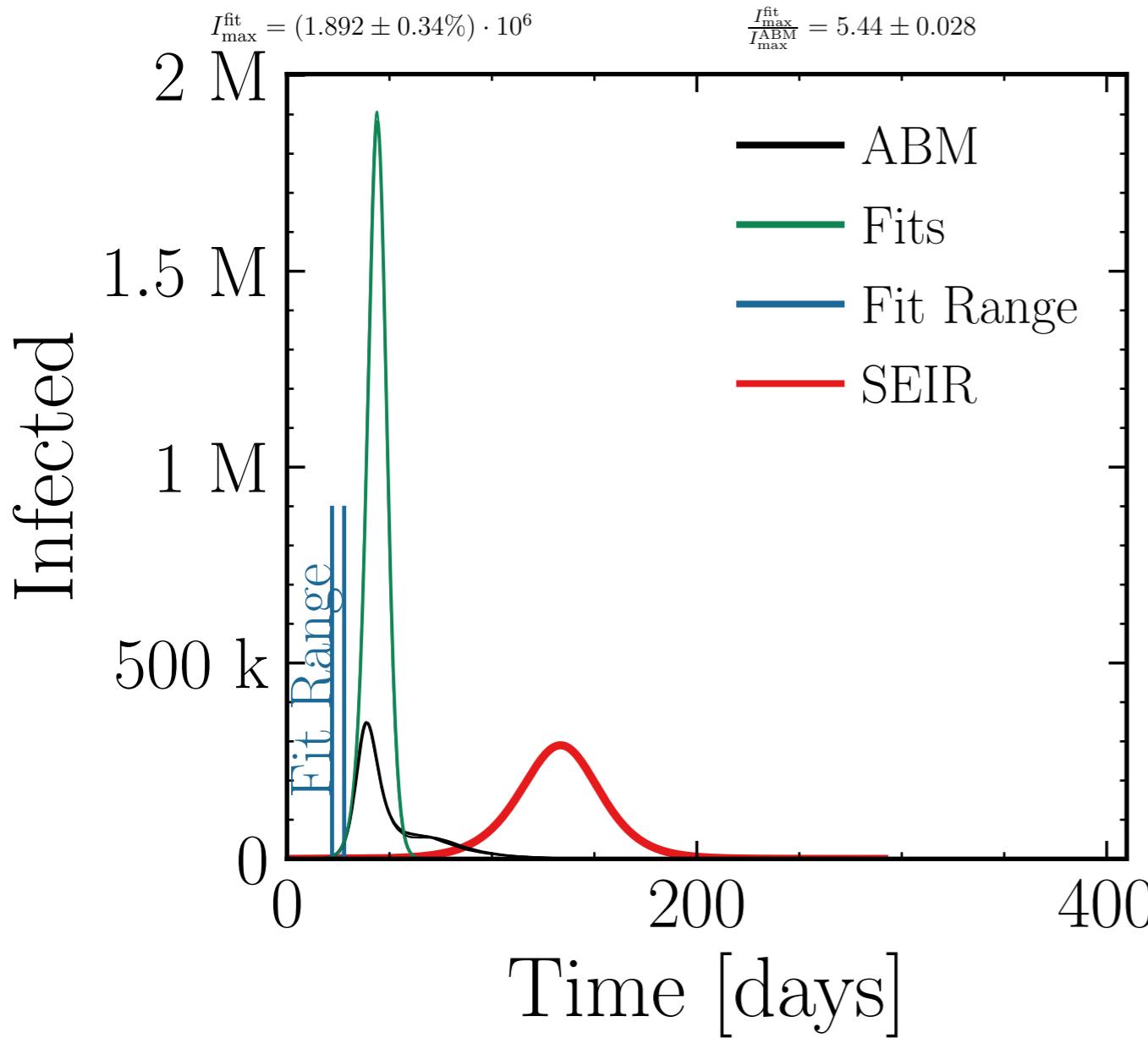
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (1.549 \pm 0.15\%) \cdot 10^6$$

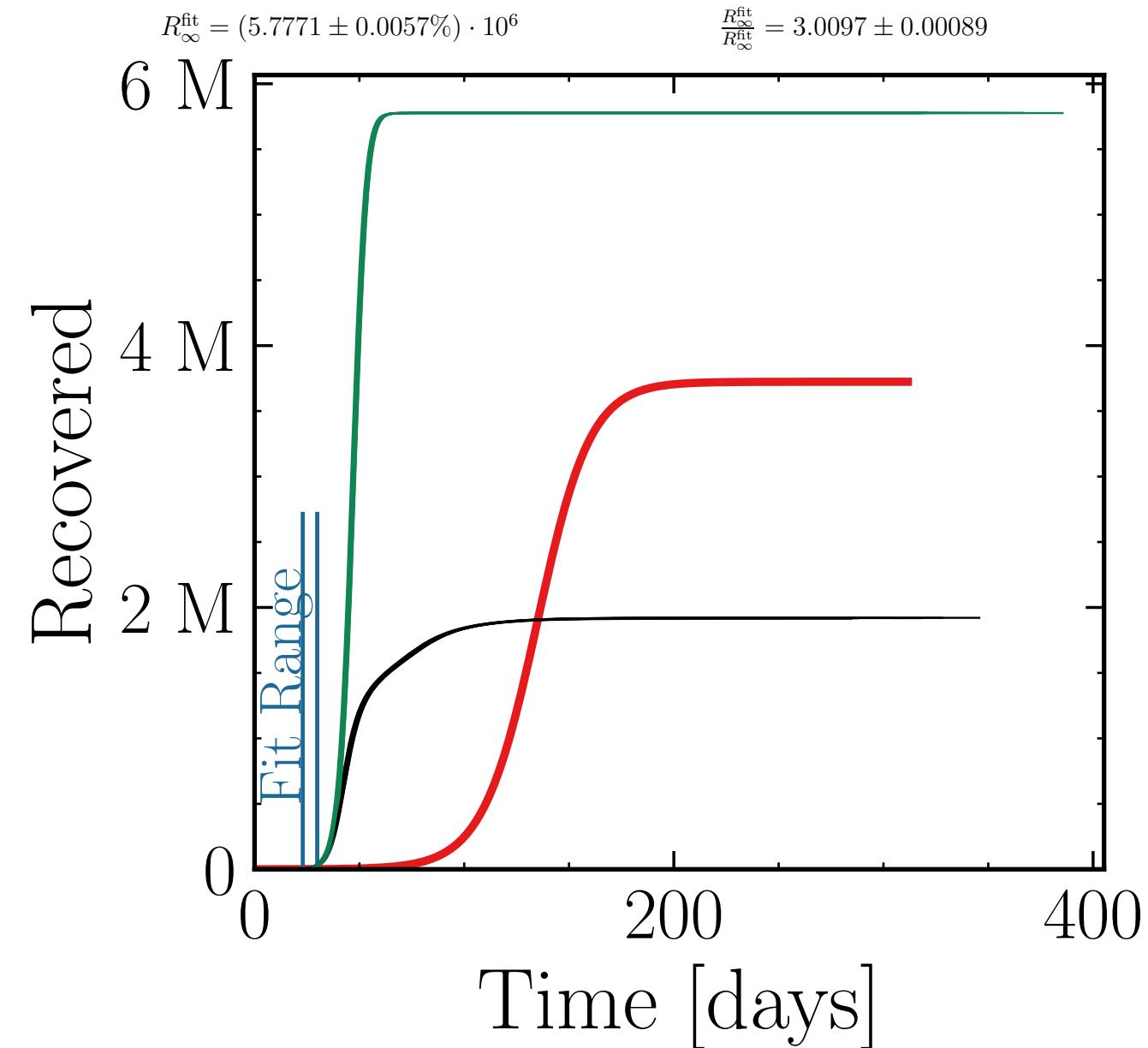
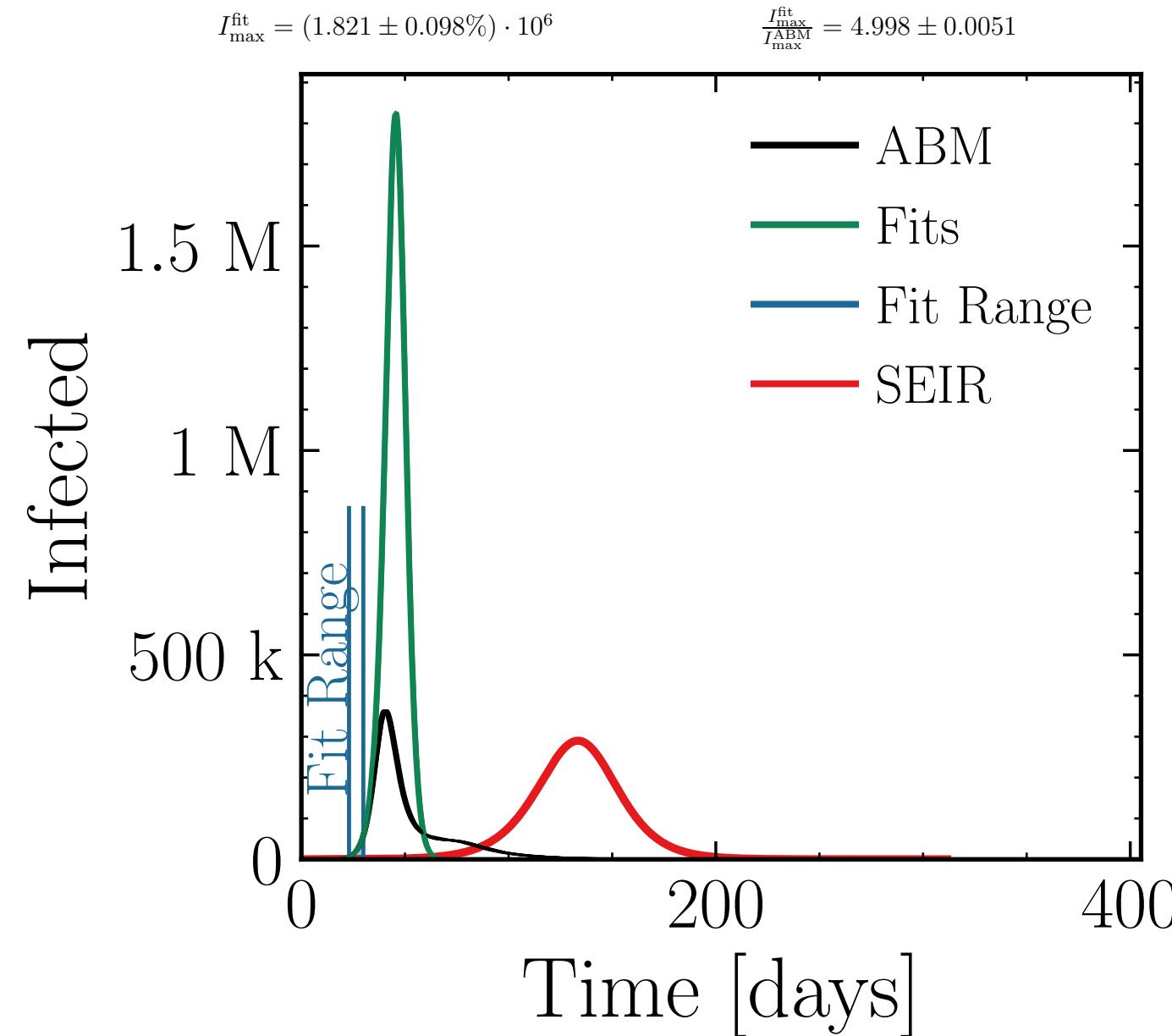
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.813 \pm 0.0060$$



$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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, #3



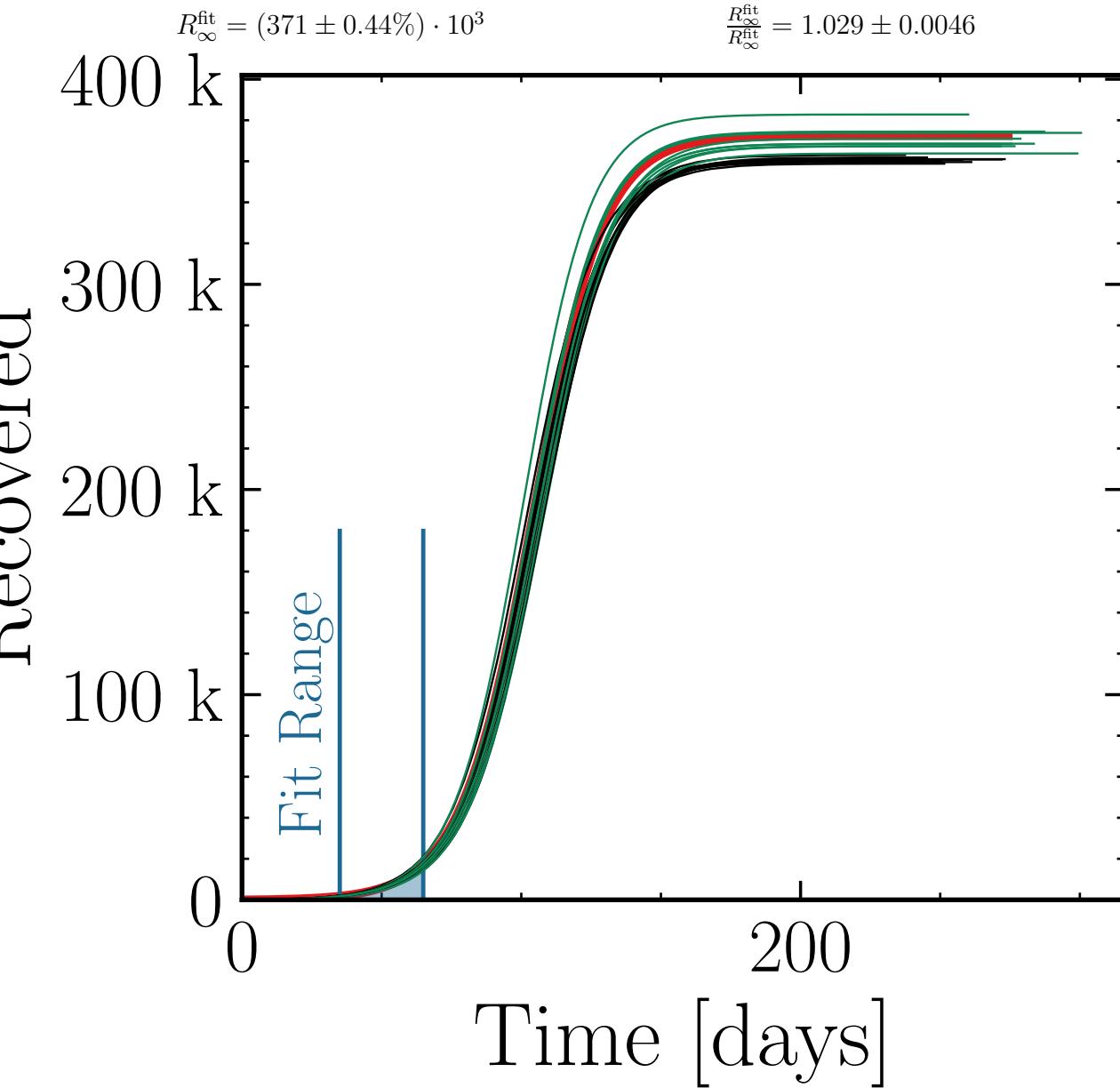
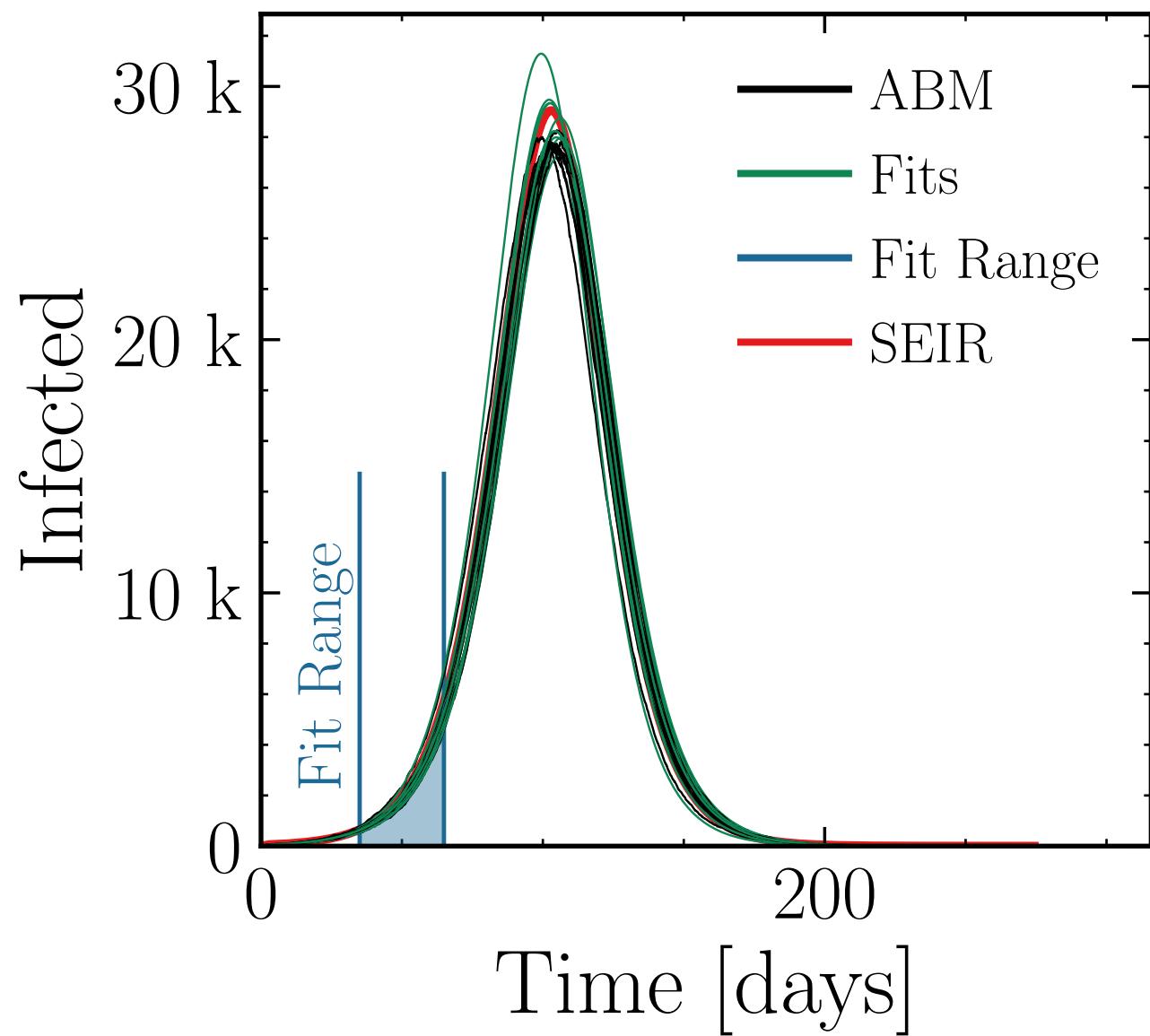
$N_{\text{tot}} = 5.8M$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10



$N_{\text{tot}} = 580K$ ,  $\rho = 0.005$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (28.8 \pm 1.2\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.04 \pm 0.012$$



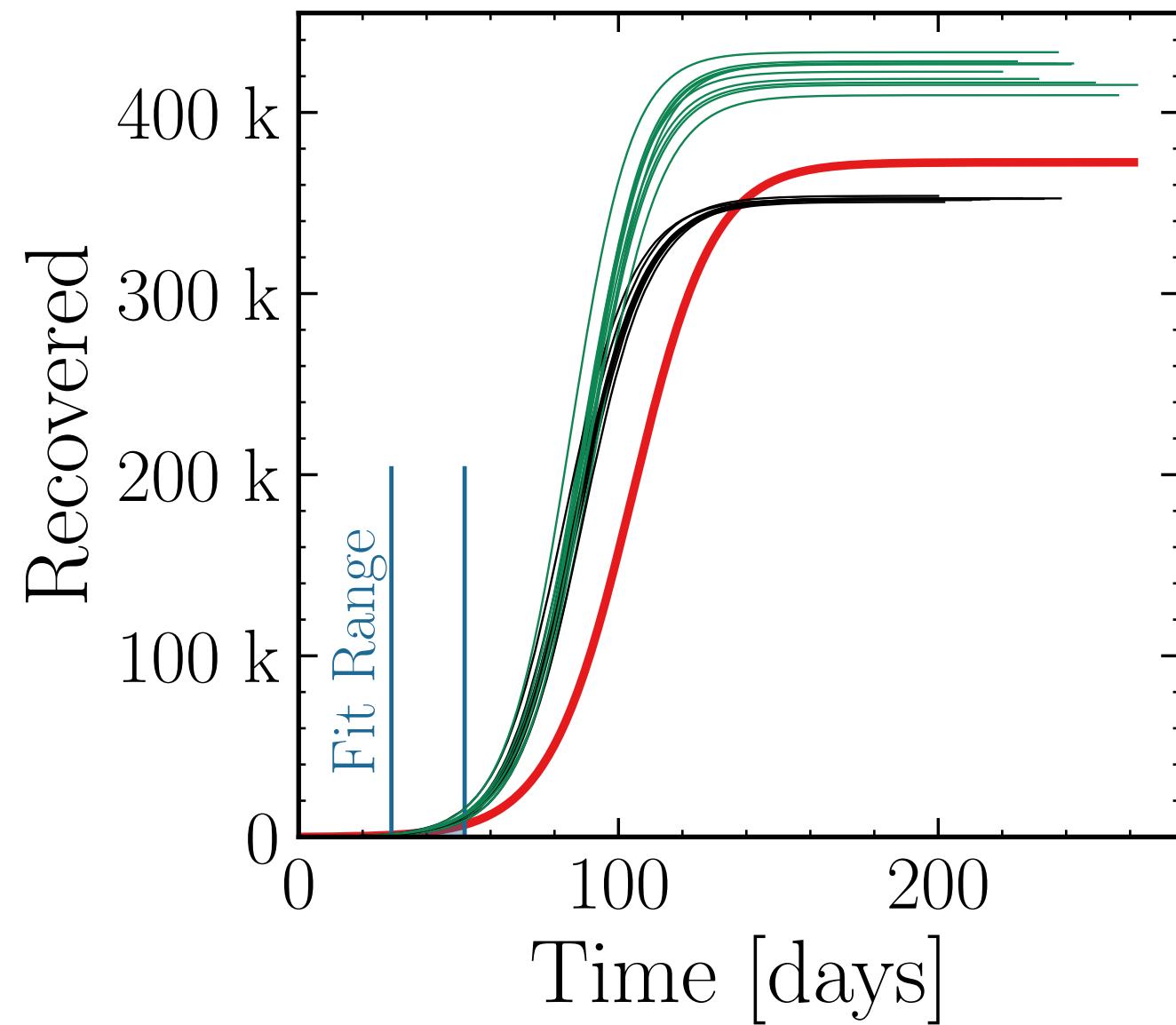
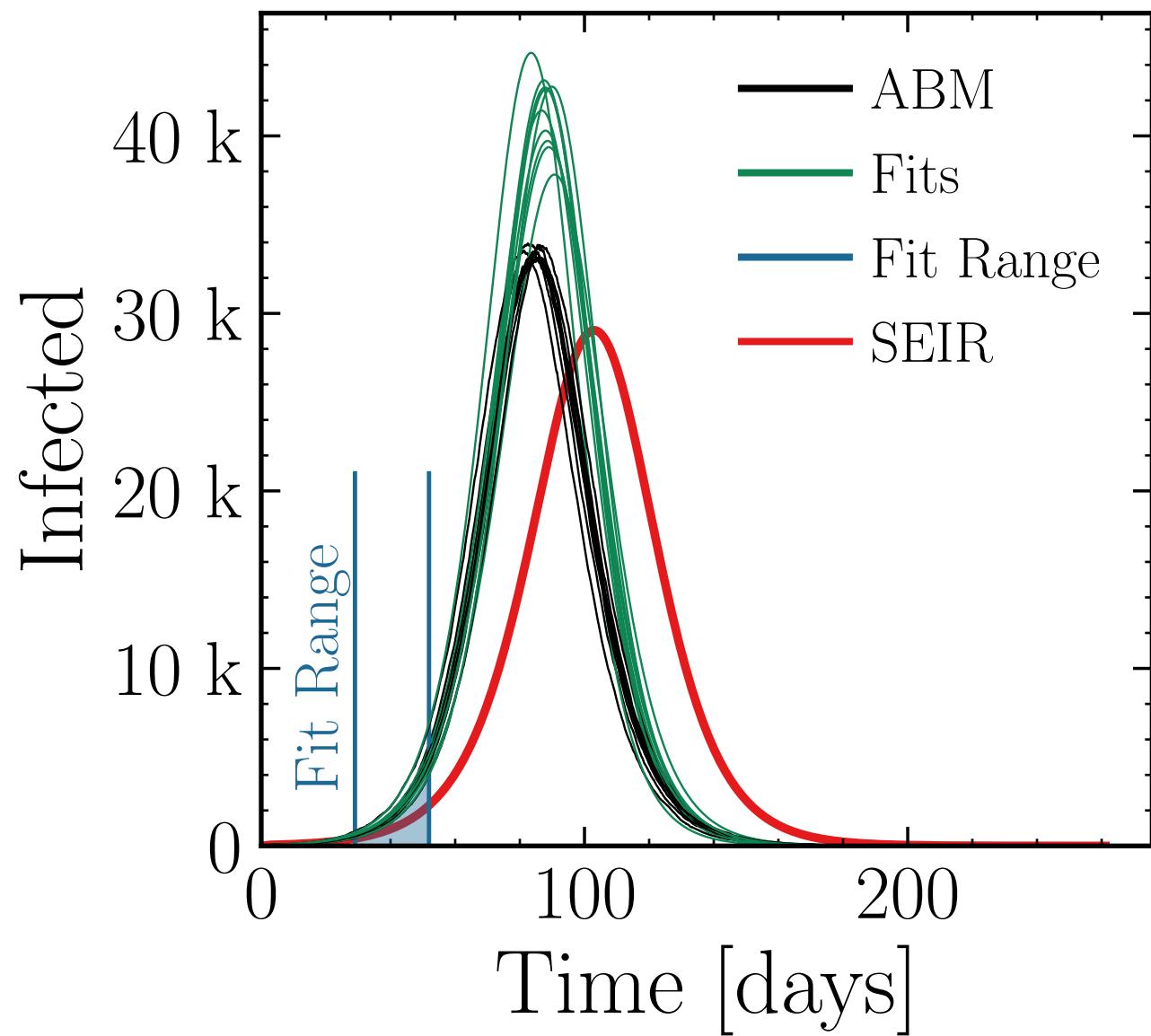
$N_{\text{tot}} = 580K$ ,  $\rho = 0.015$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (41.5 \pm 1.5\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (422 \pm 0.52\%) \cdot 10^3$$

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



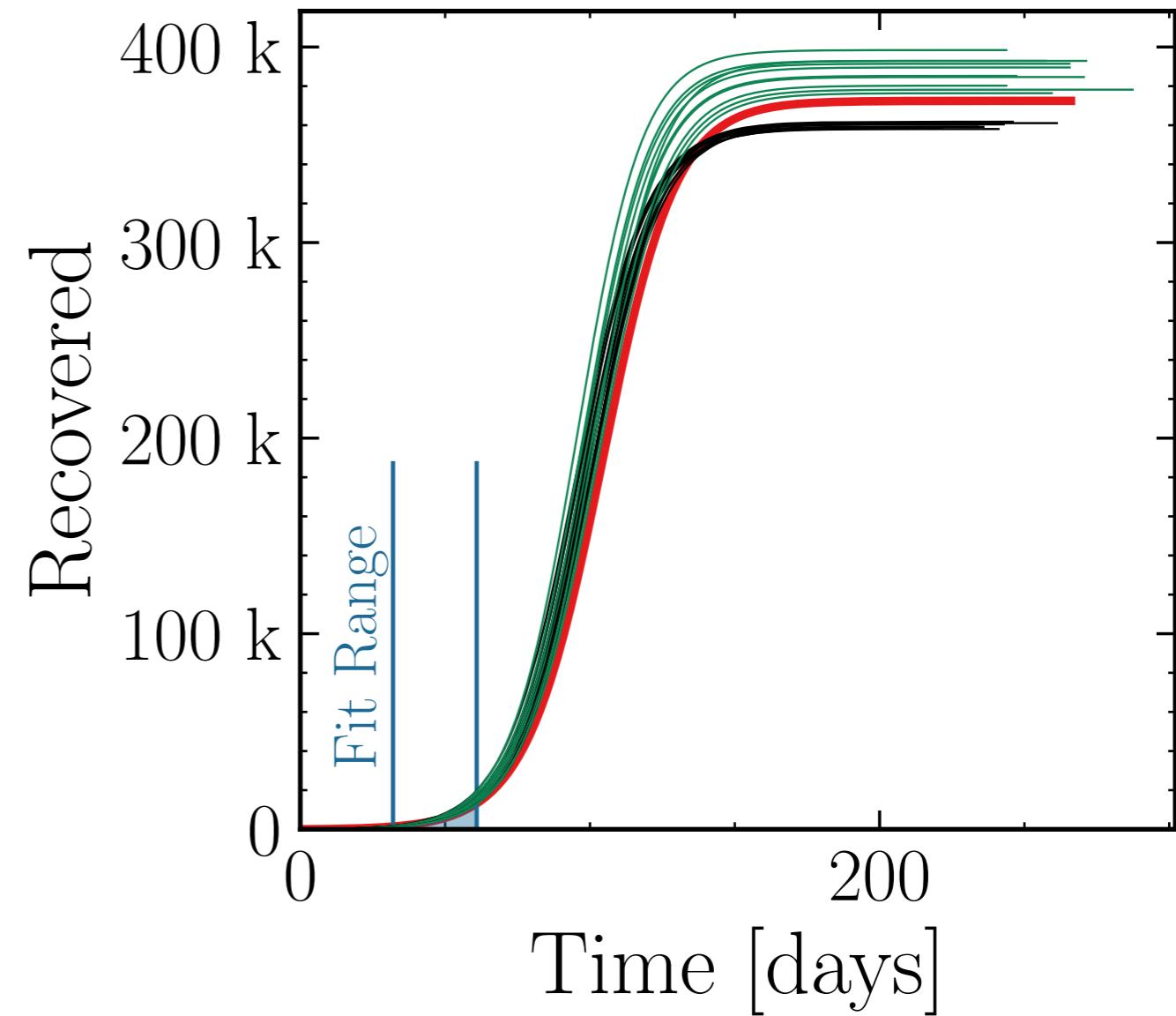
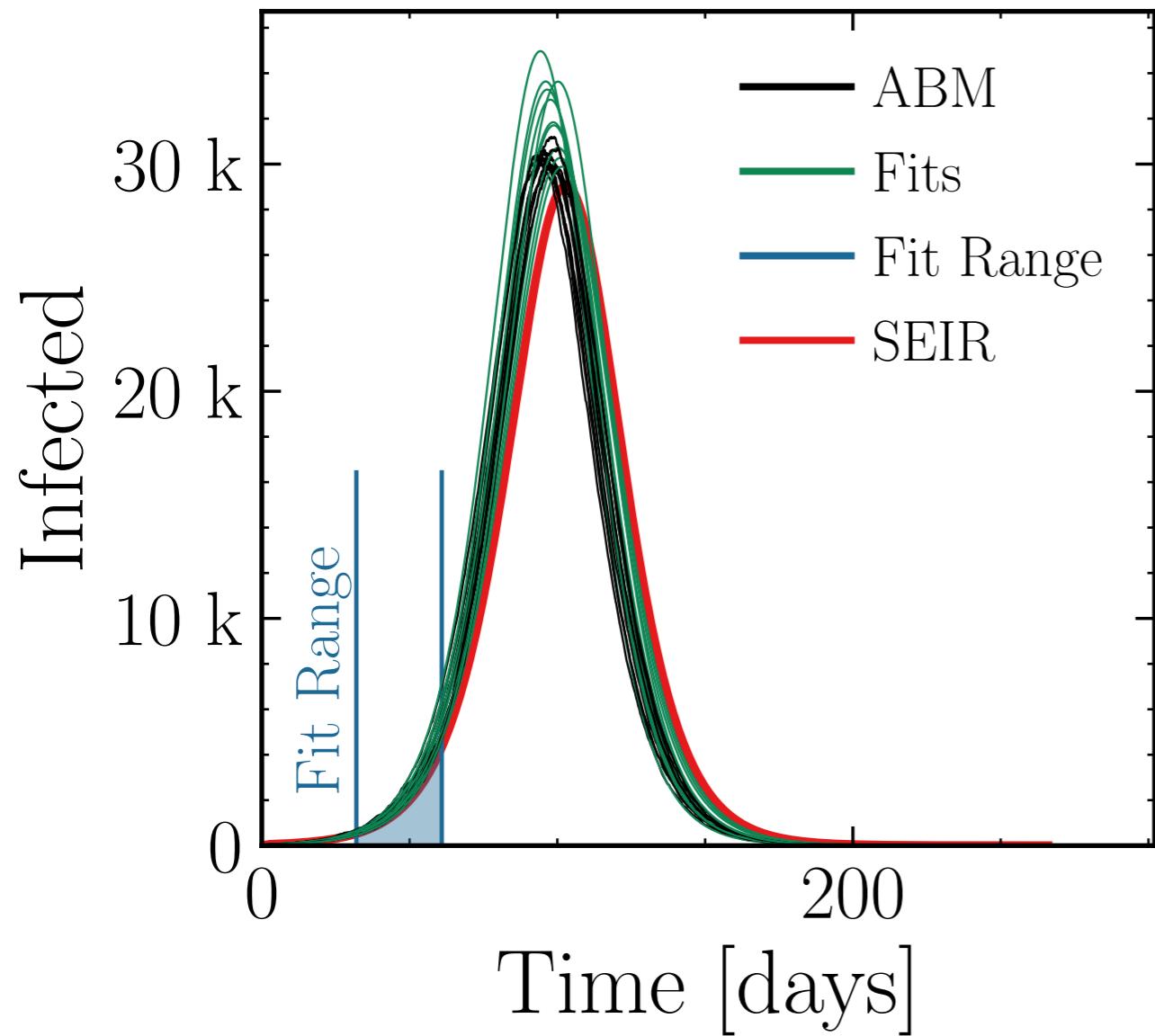
$N_{\text{tot}} = 580K$ ,  $\rho = 0.01$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (32.3 \pm 1.5\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (387 \pm 0.56\%) \cdot 10^3$$

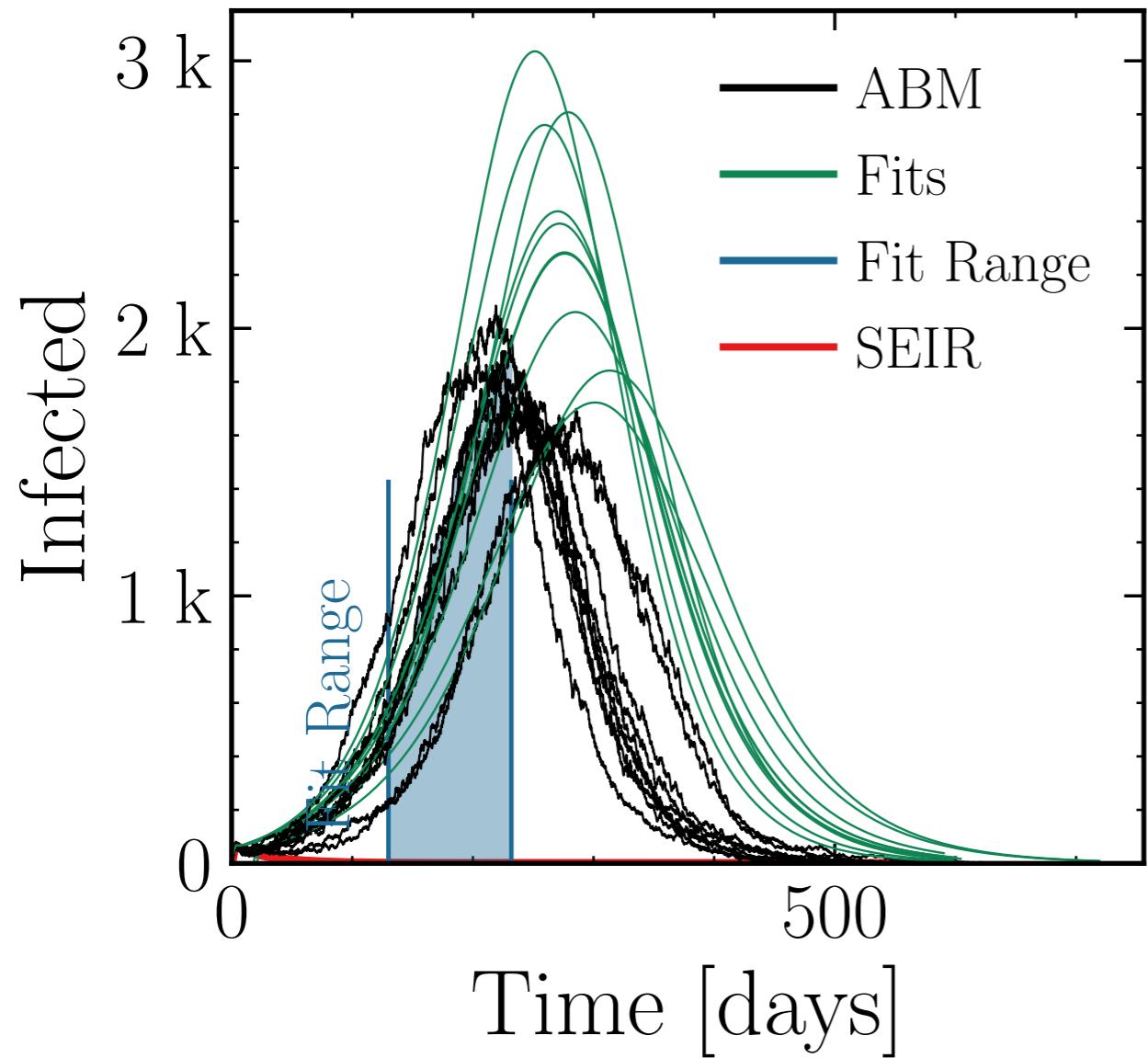
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.076 \pm 0.0064$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , 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

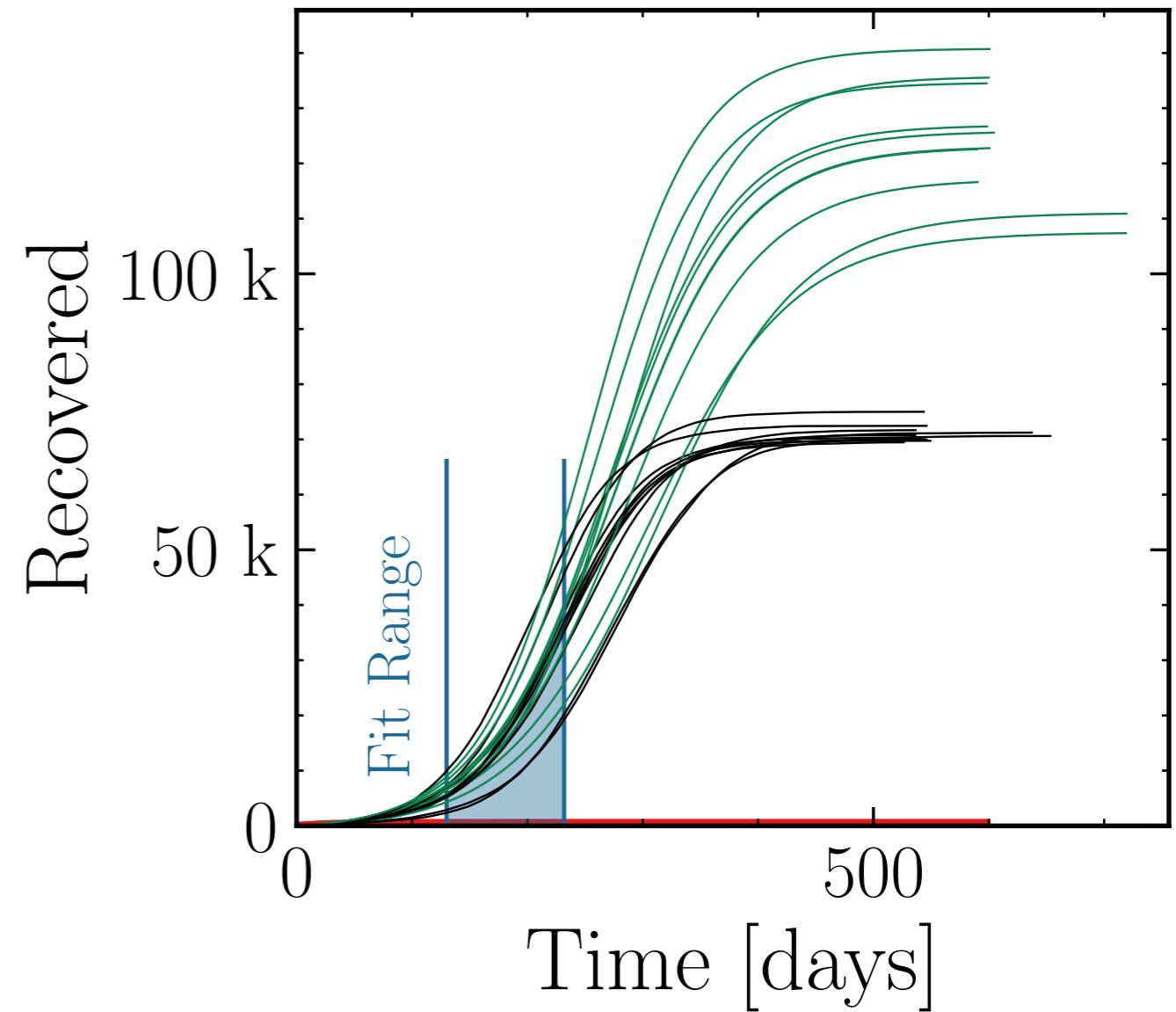
$$I_{\max}^{\text{fit}} = (2.4 \pm 5.4\%) \cdot 10^3$$

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



$$R_{\infty}^{\text{fit}} = (125 \pm 2.6\%) \cdot 10^3$$

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



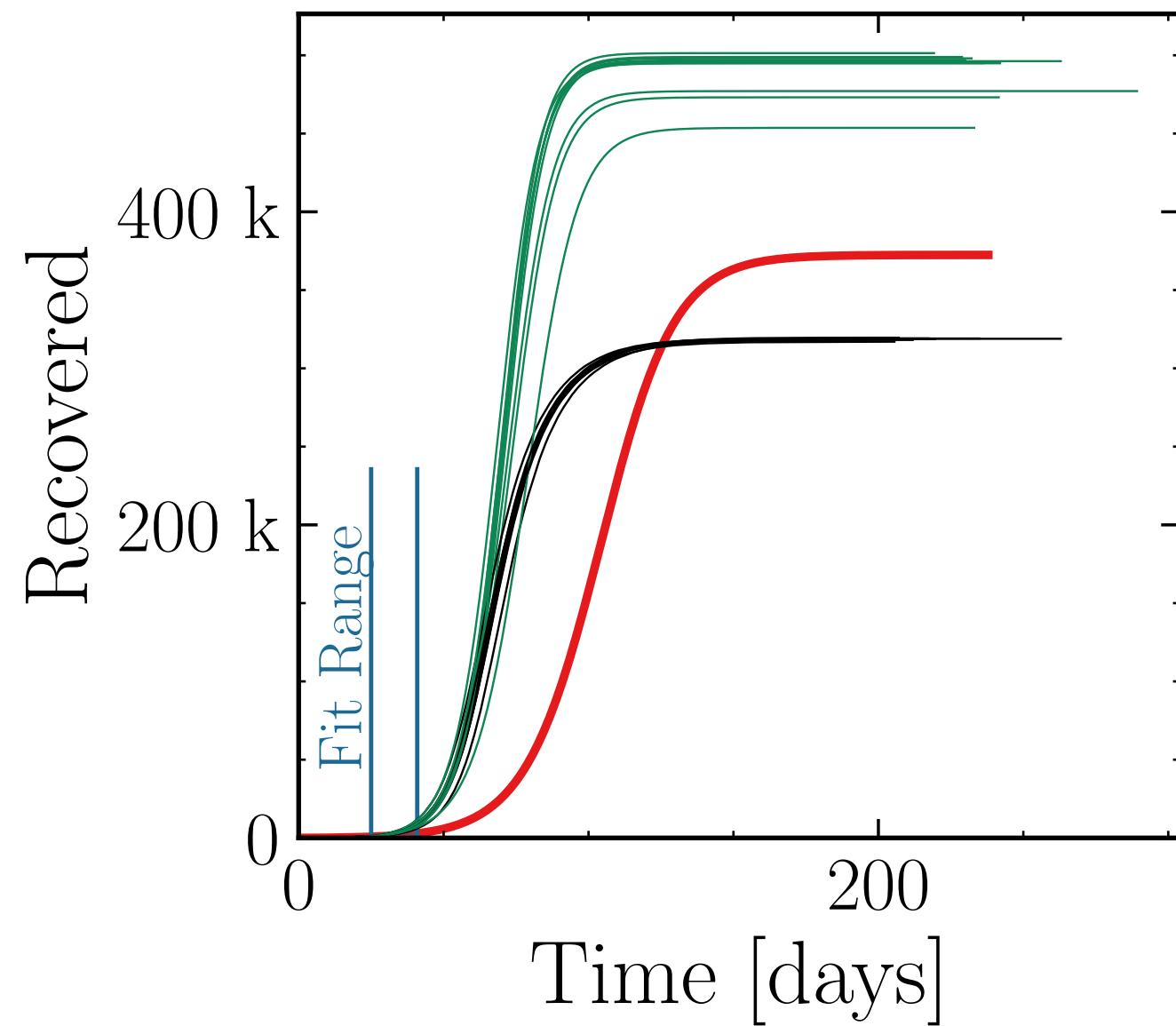
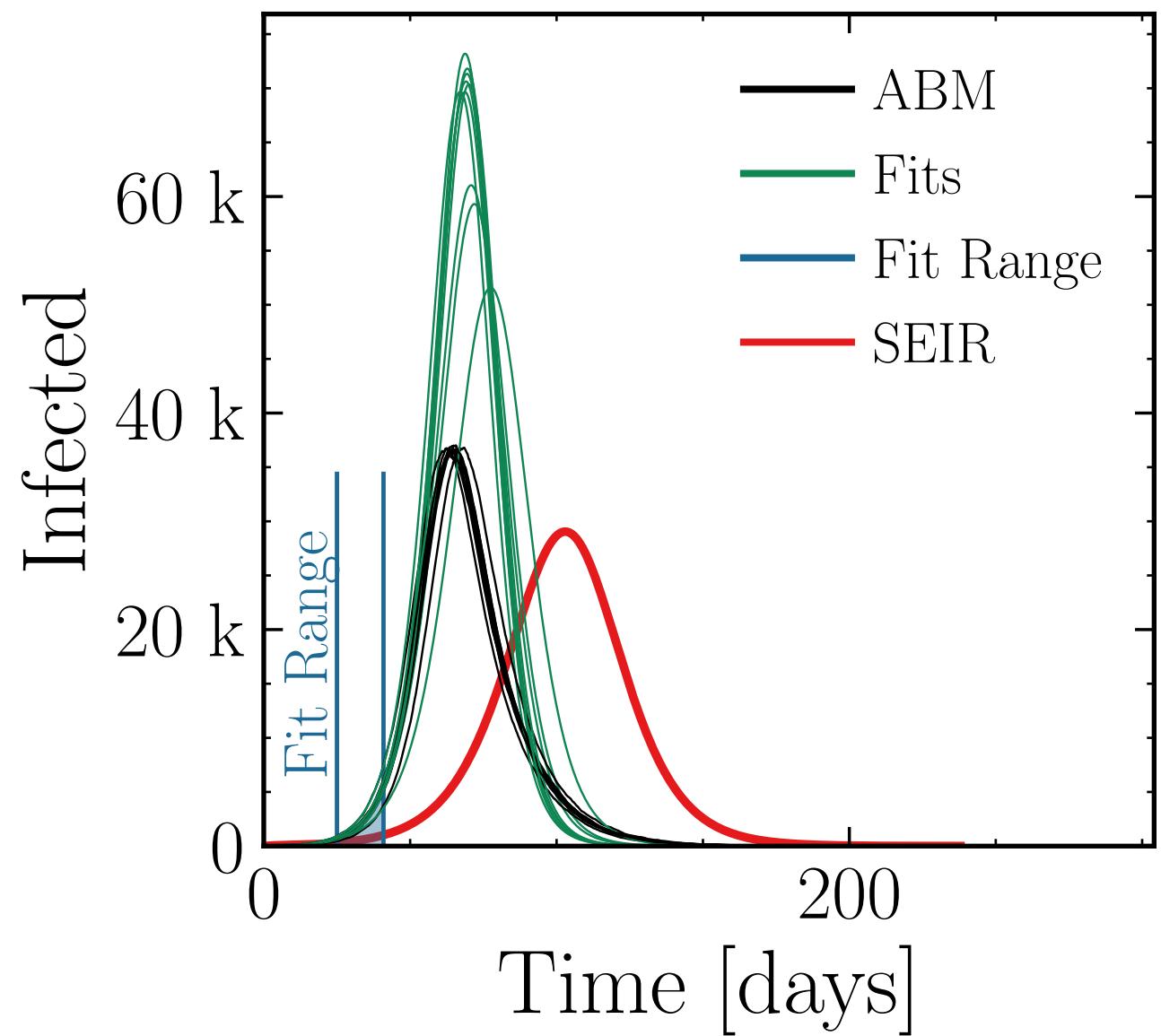
$N_{\text{tot}} = 580K$ ,  $\rho = 0.025$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (67 \pm 3.2\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (488 \pm 0.95\%) \cdot 10^3$$

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



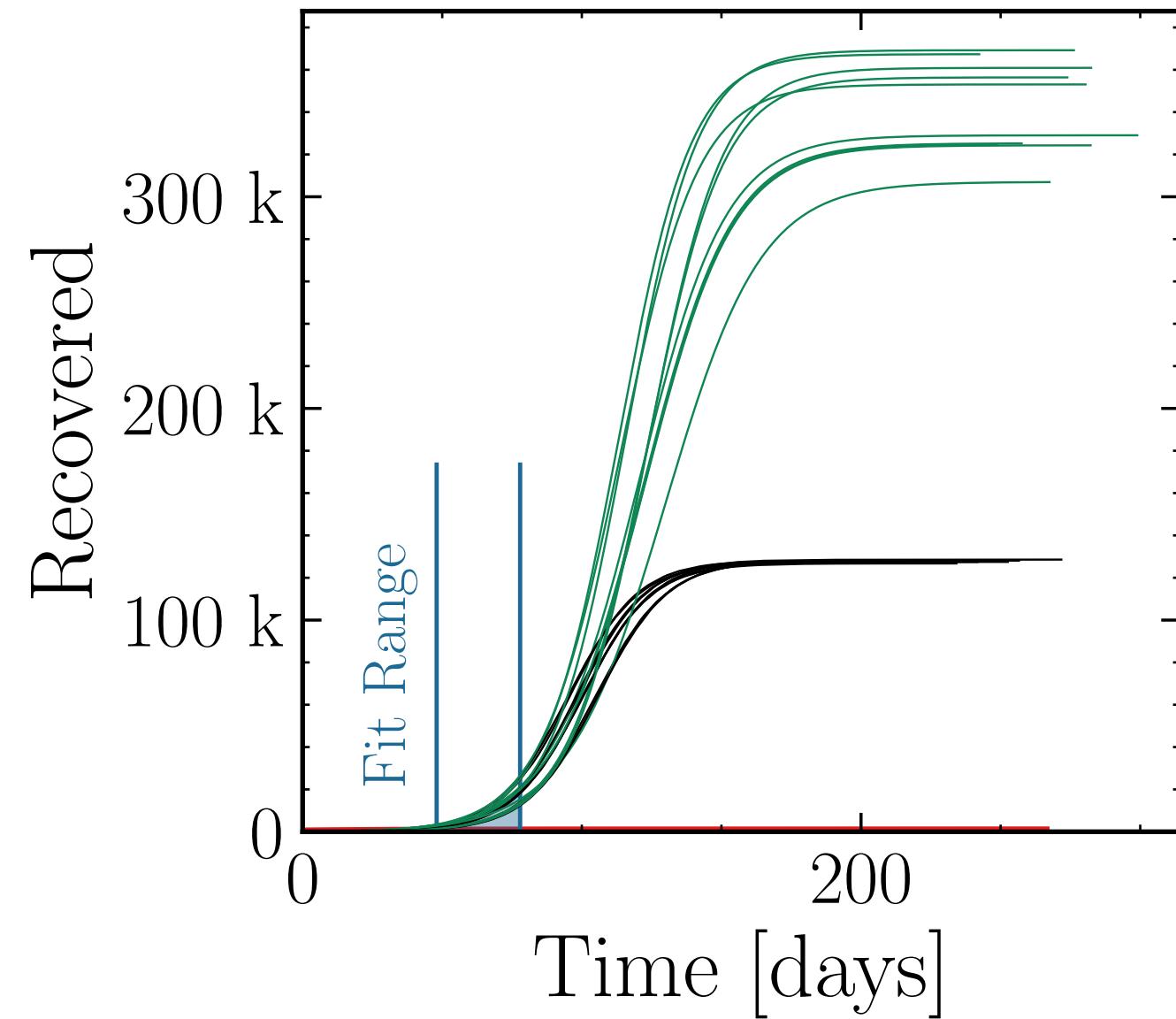
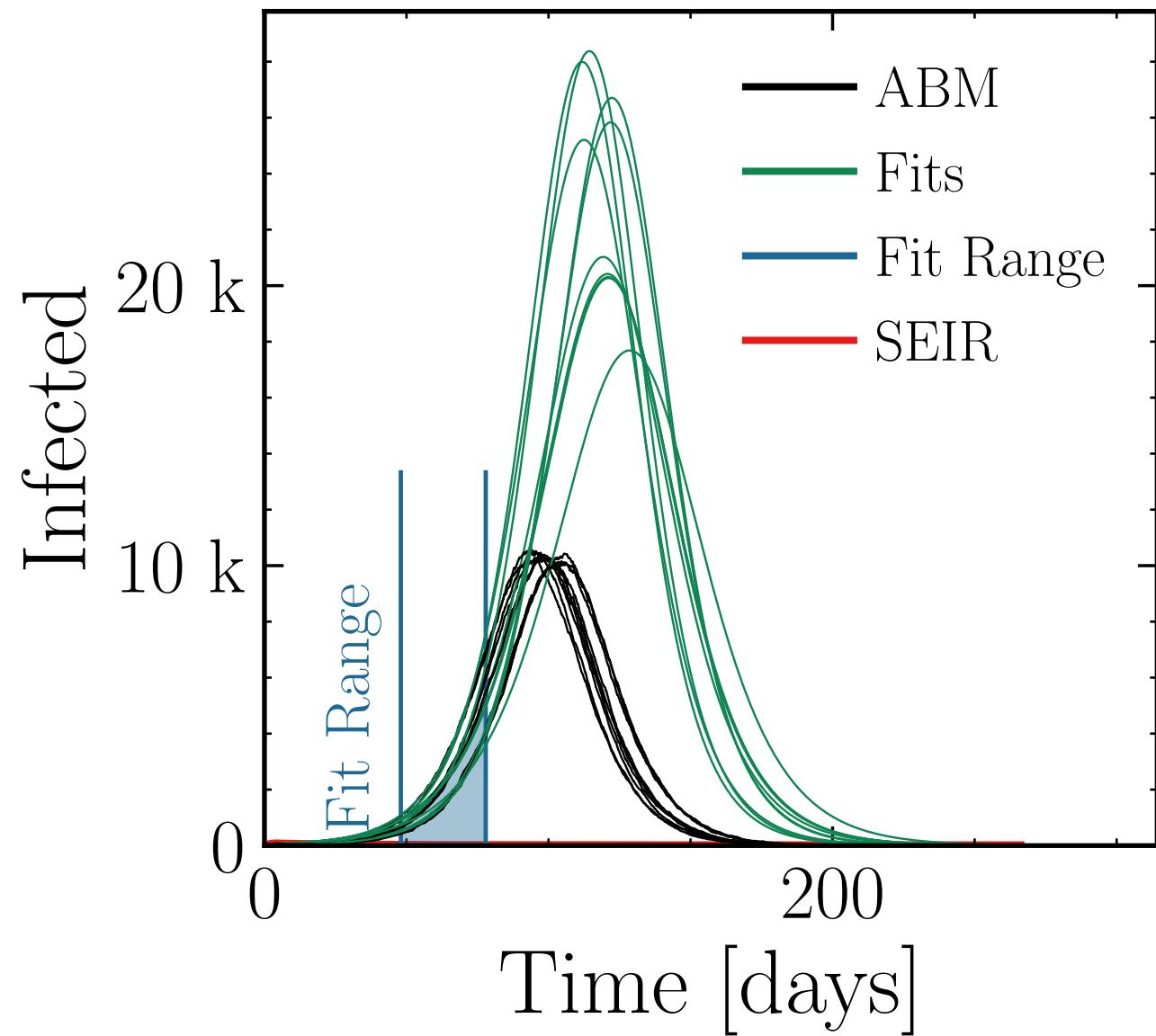
$N_{\text{tot}} = 580K$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (23 \pm 4.9\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (342 \pm 1.9\%) \cdot 10^3$$

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



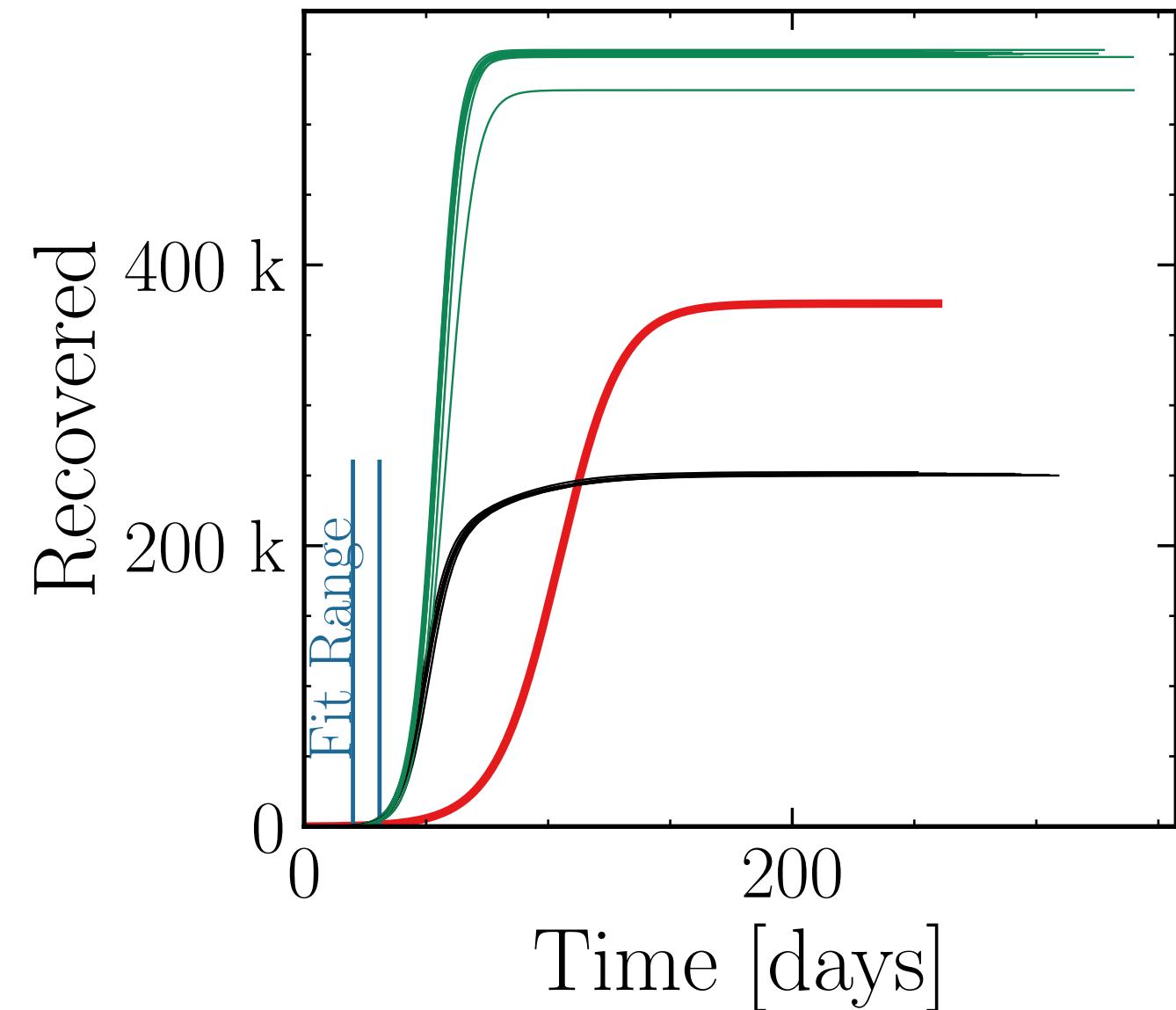
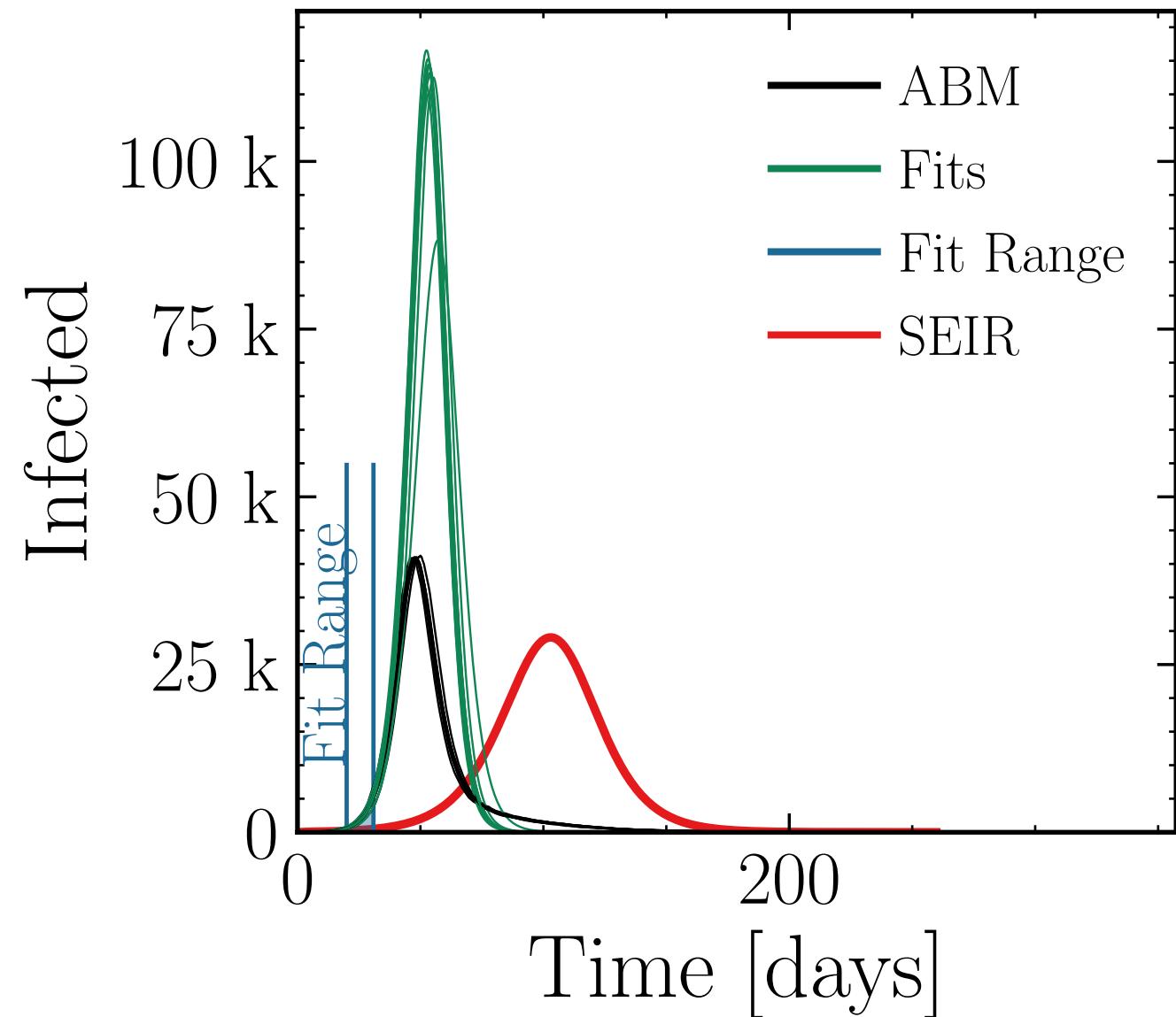
$N_{\text{tot}} = 580K$ ,  $\rho = 0.05$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (111 \pm 2.2\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.71 \pm 0.060$$

$$R_{\infty}^{\text{fit}} = (548 \pm 0.46\%) \cdot 10^3$$

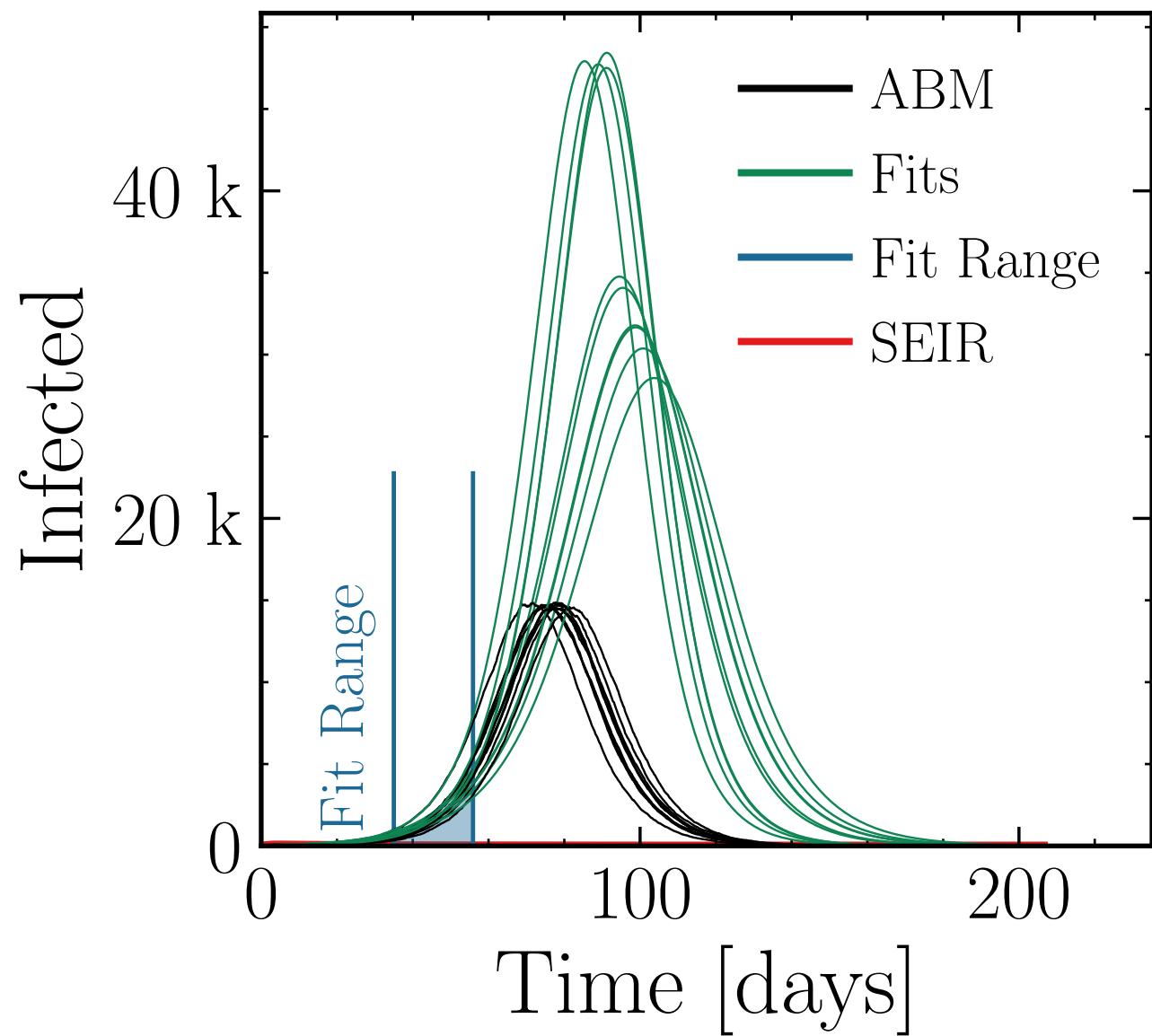
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.185 \pm 0.0096$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , 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

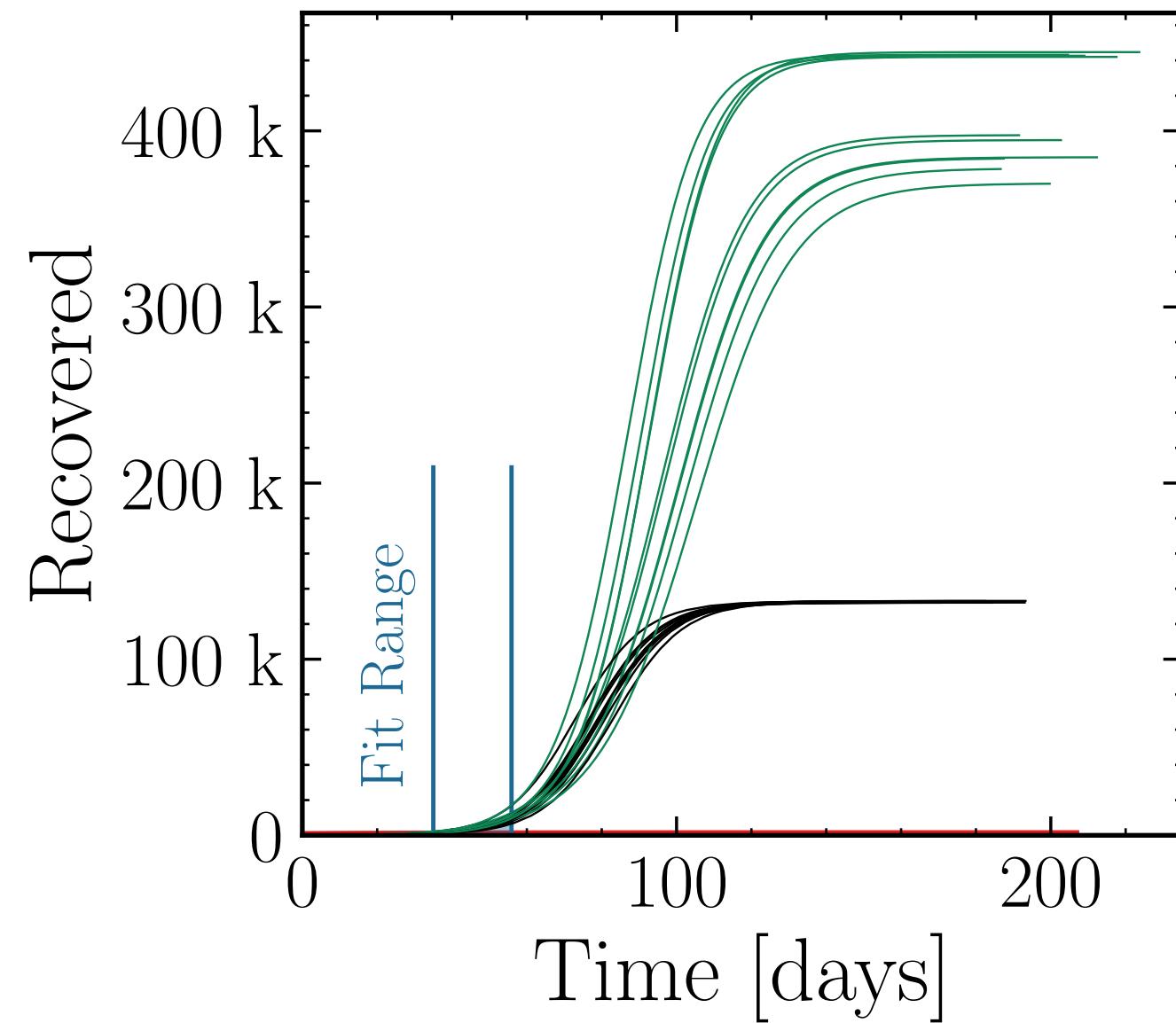
$$I_{\text{max}}^{\text{fit}} = (38 \pm 6.6\%) \cdot 10^3$$

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



$$R_{\infty}^{\text{fit}} = (408 \pm 2.3\%) \cdot 10^3$$

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



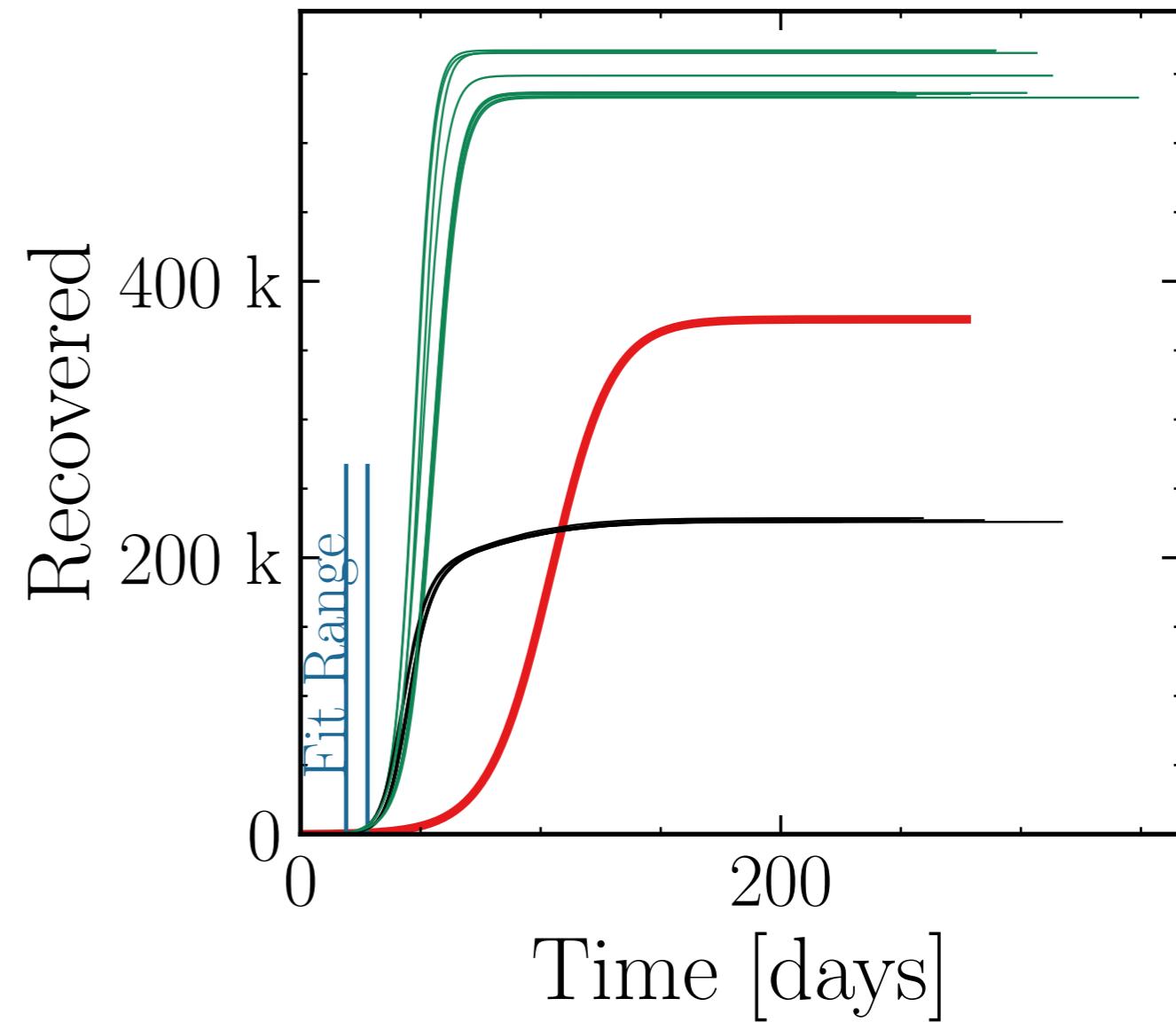
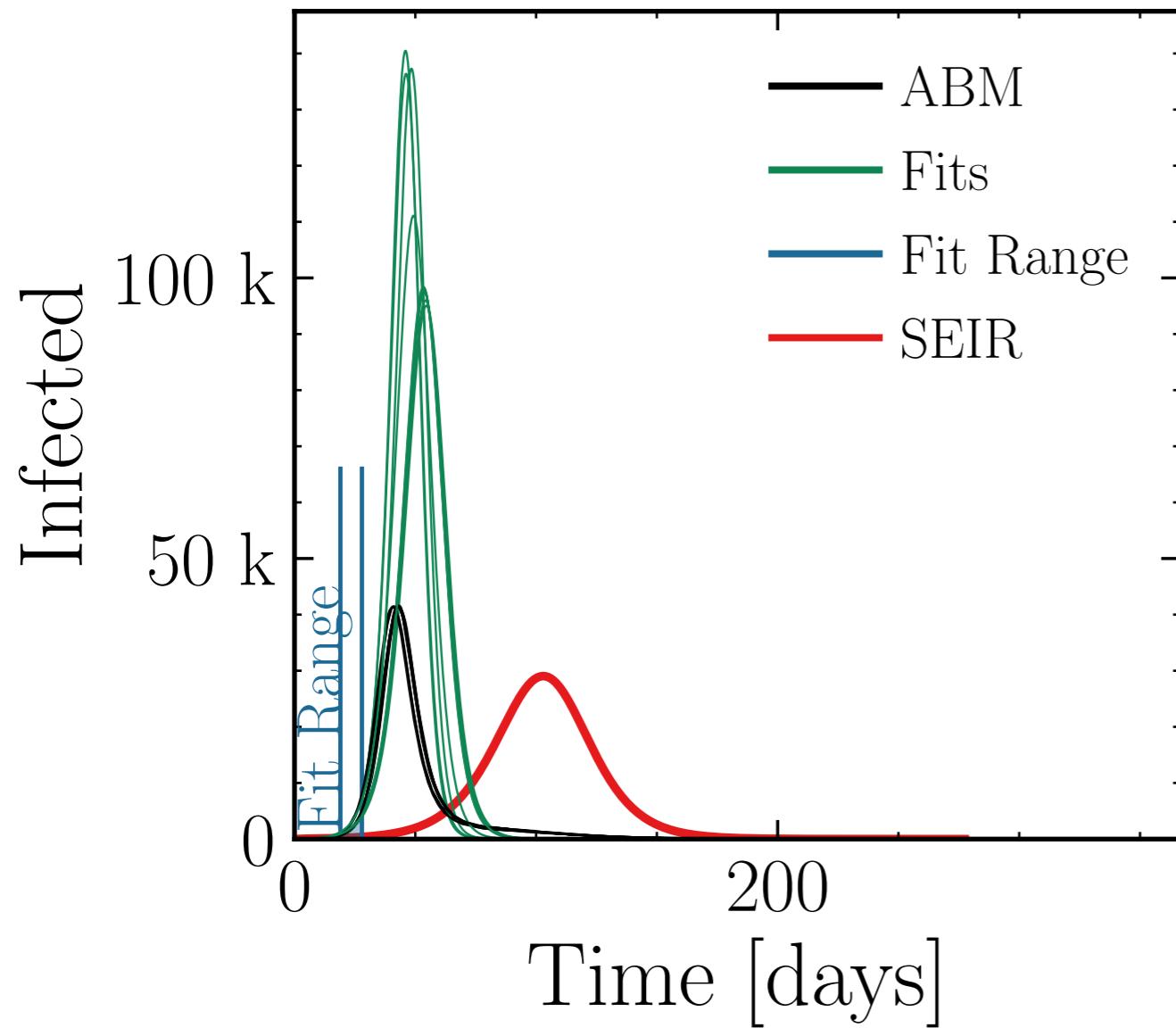
$N_{\text{tot}} = 580K$ ,  $\rho = 0.075$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (111 \pm 5.2\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (546 \pm 0.8\%) \cdot 10^3$$

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



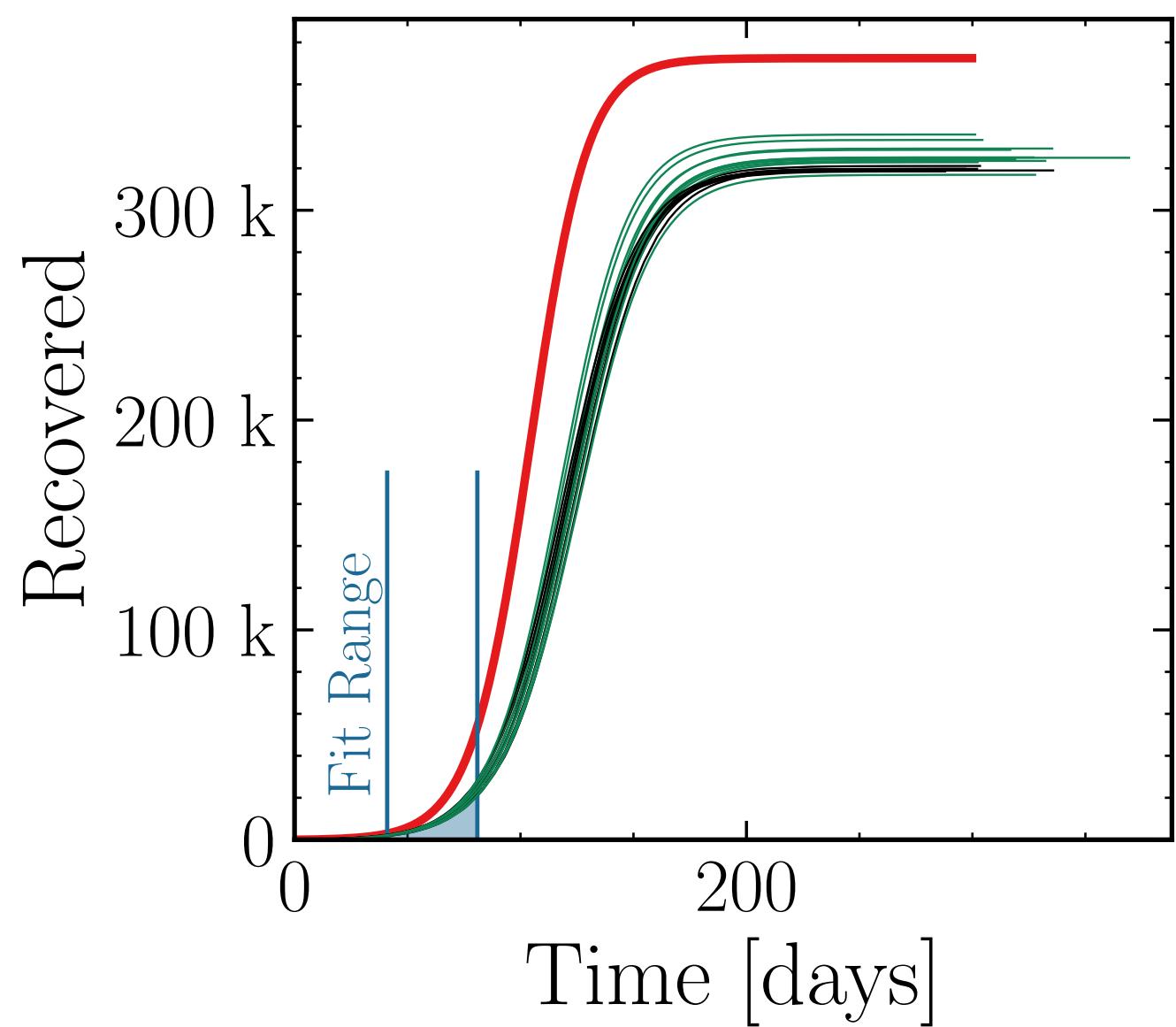
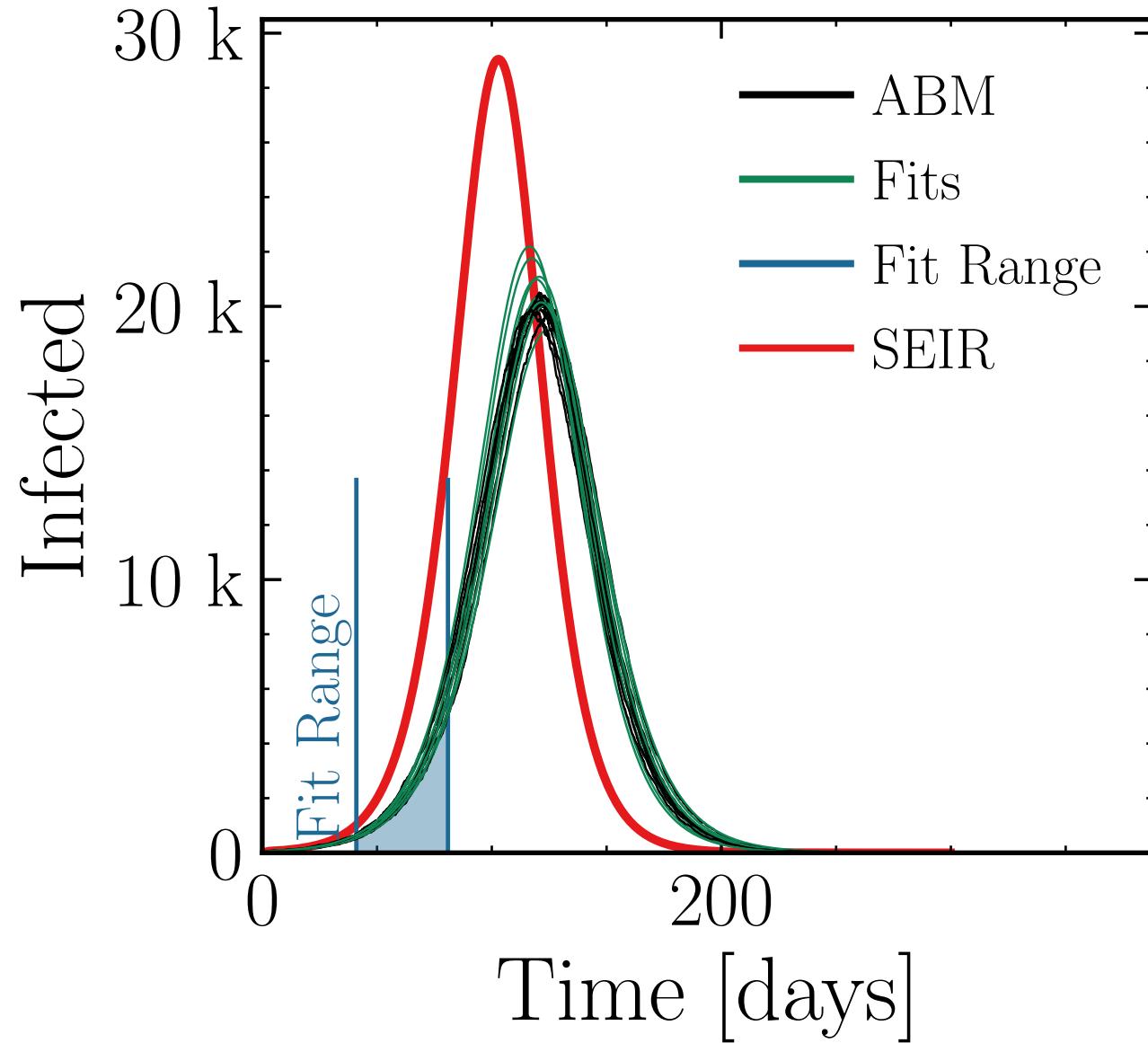
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (20.6 \pm 1.3\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (327 \pm 0.51\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.023 \pm 0.0053$$



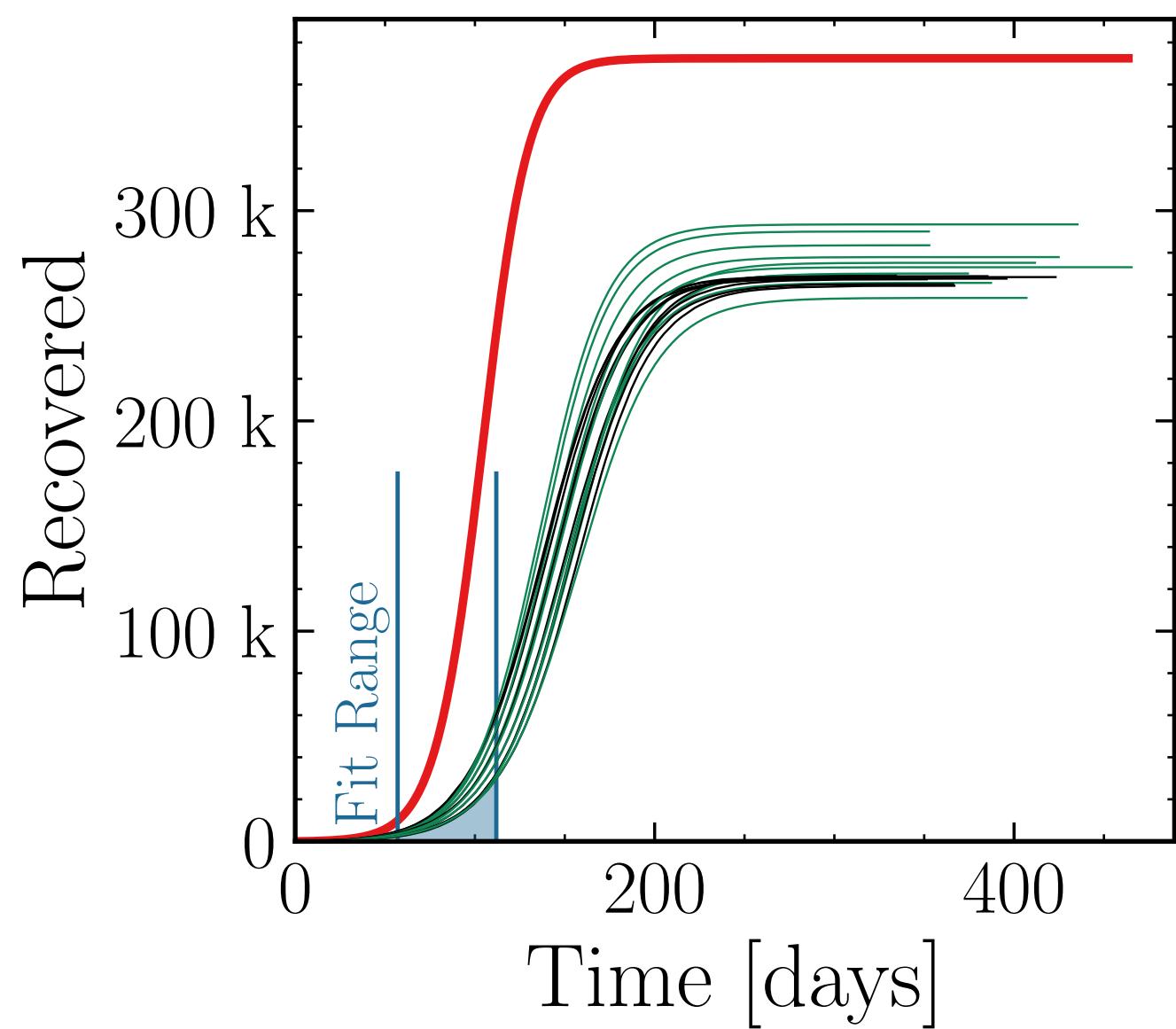
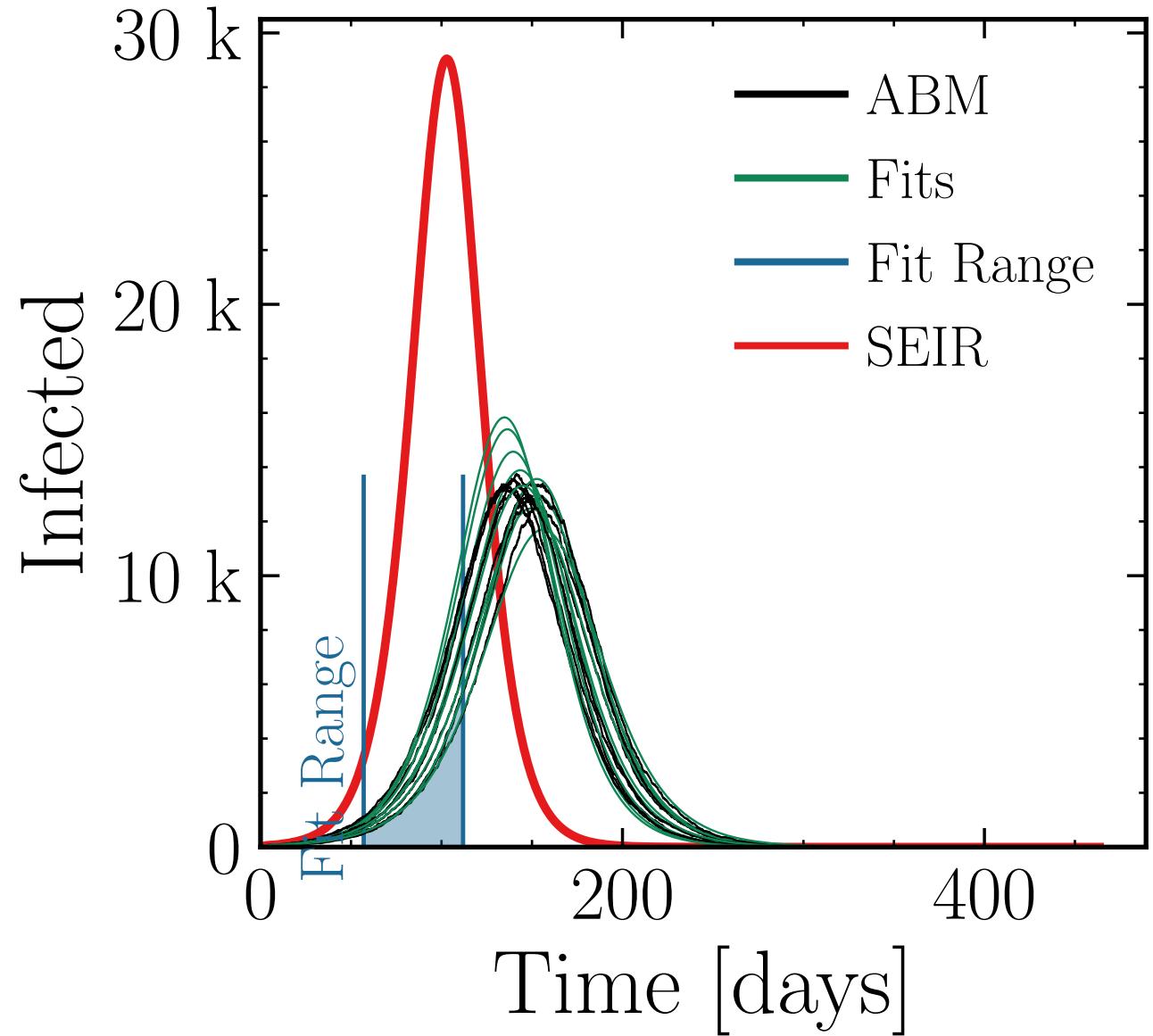
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (13.7 \pm 3.1\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.04 \pm 0.029$$

$$R_{\infty}^{\text{fit}} = (276 \pm 1.3\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.03 \pm 0.013$$



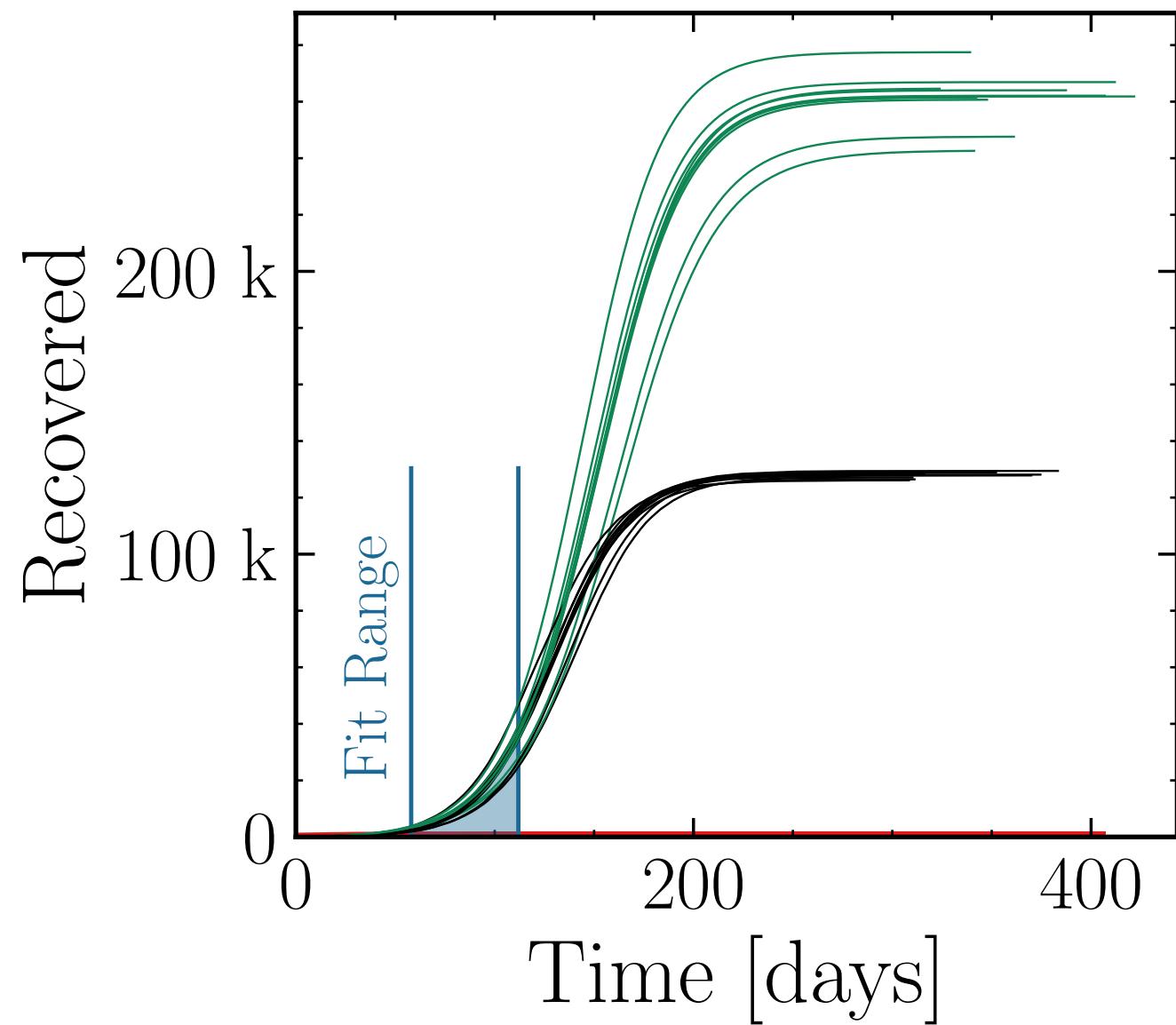
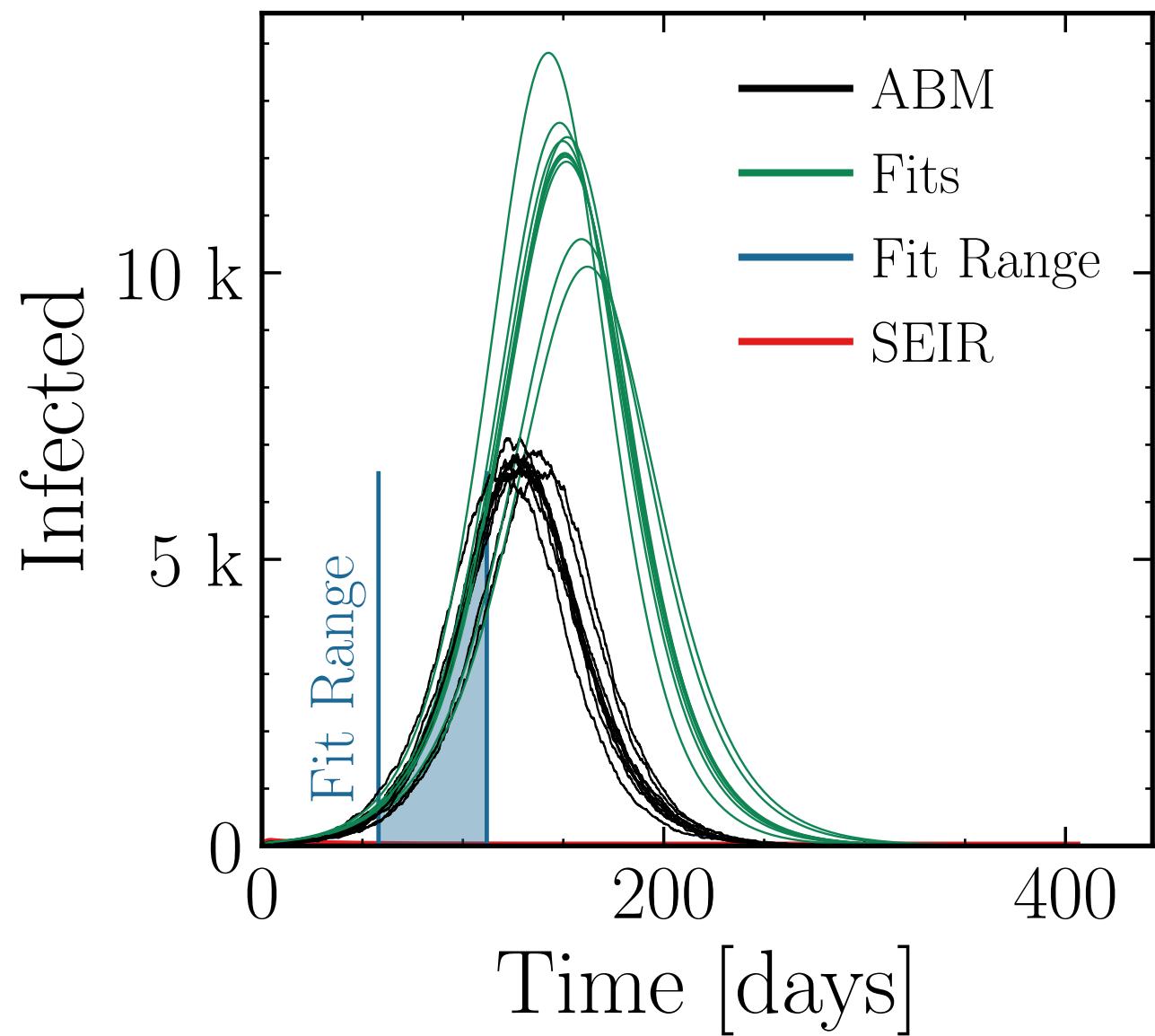
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (12 \pm 2.6\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (261 \pm 1.1\%) \cdot 10^3$$

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



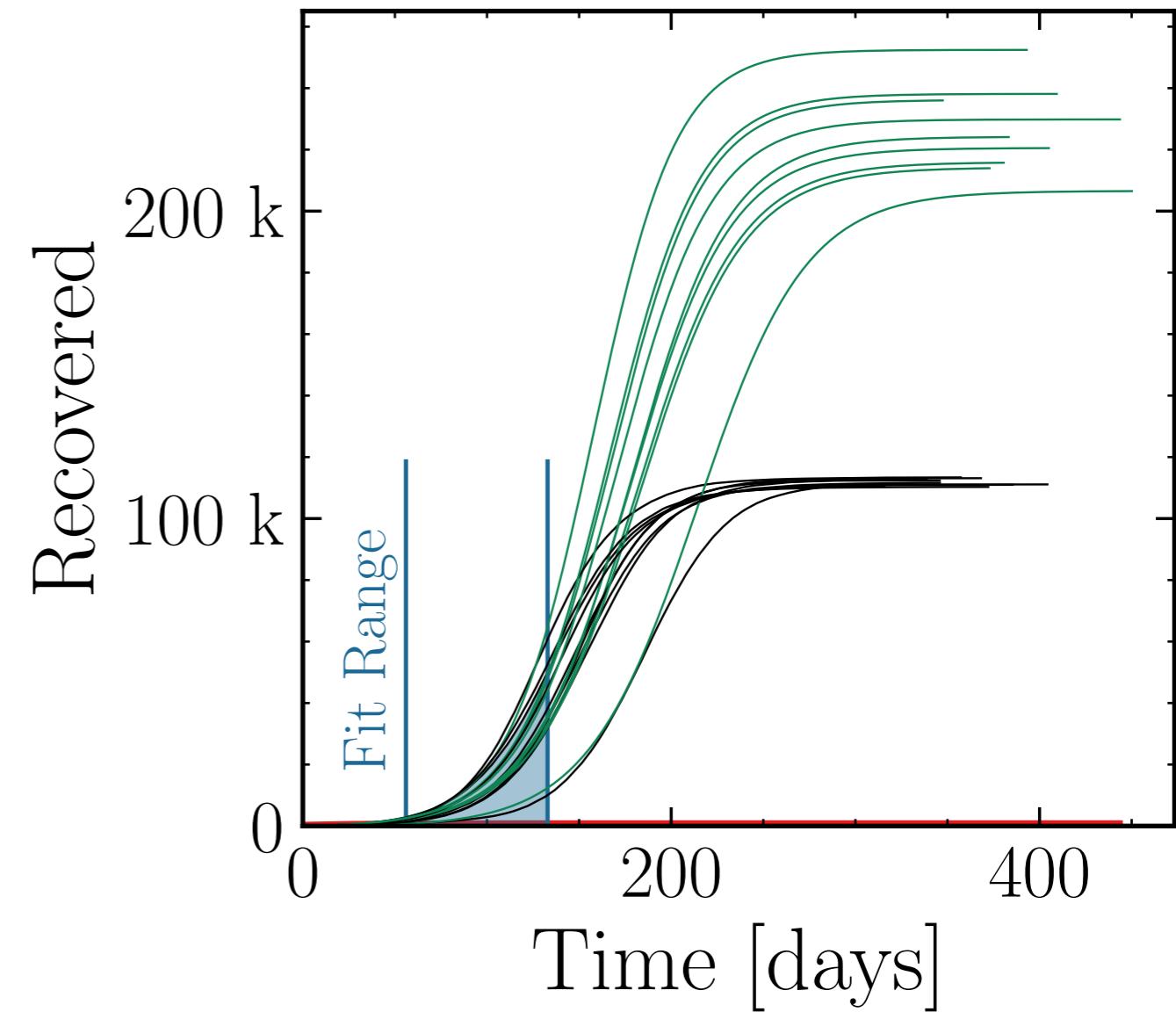
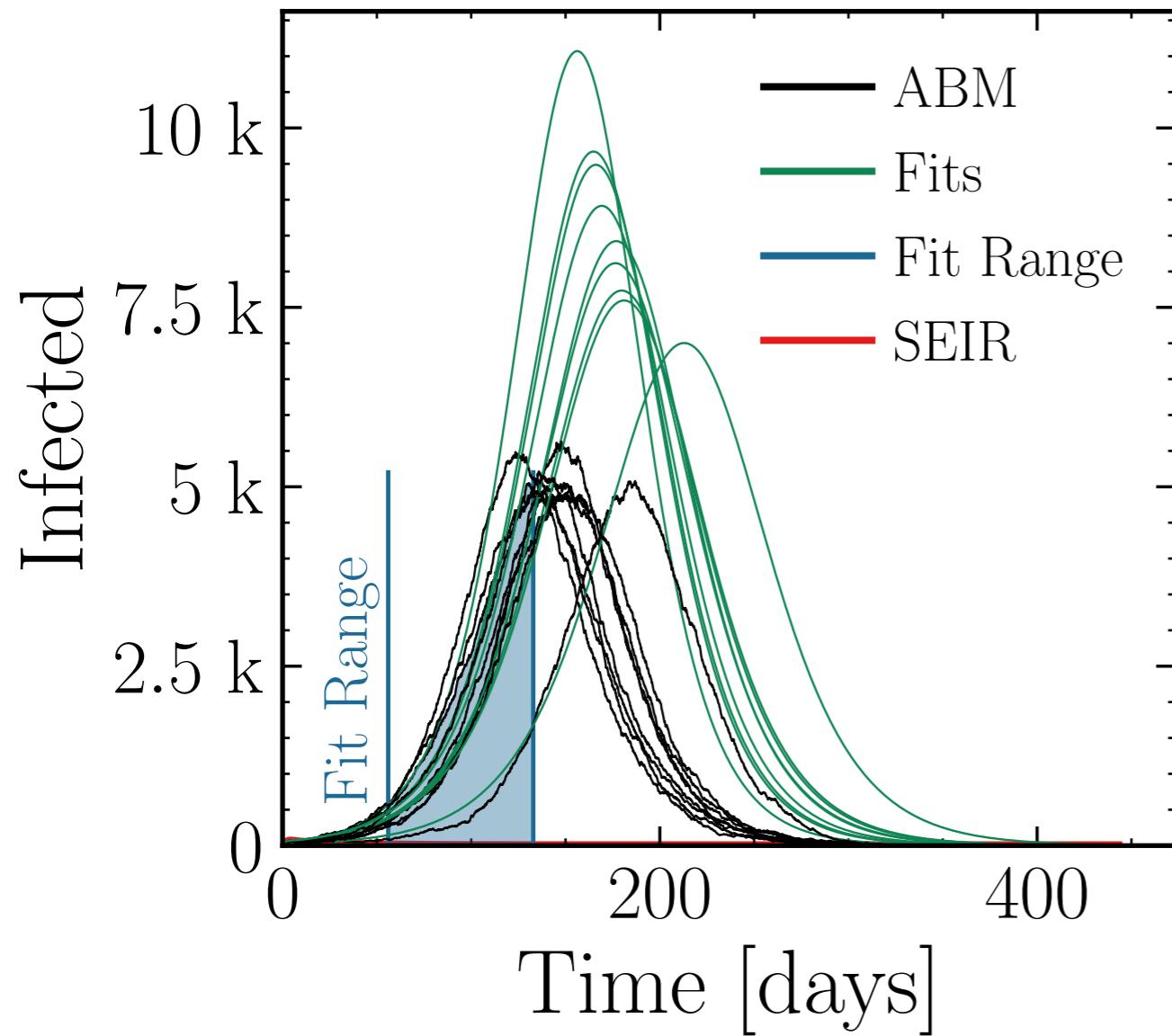
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (8.7 \pm 4.6\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.68 \pm 0.069$$

$$R_{\infty}^{\text{fit}} = (226 \pm 2.0\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.03 \pm 0.040$$



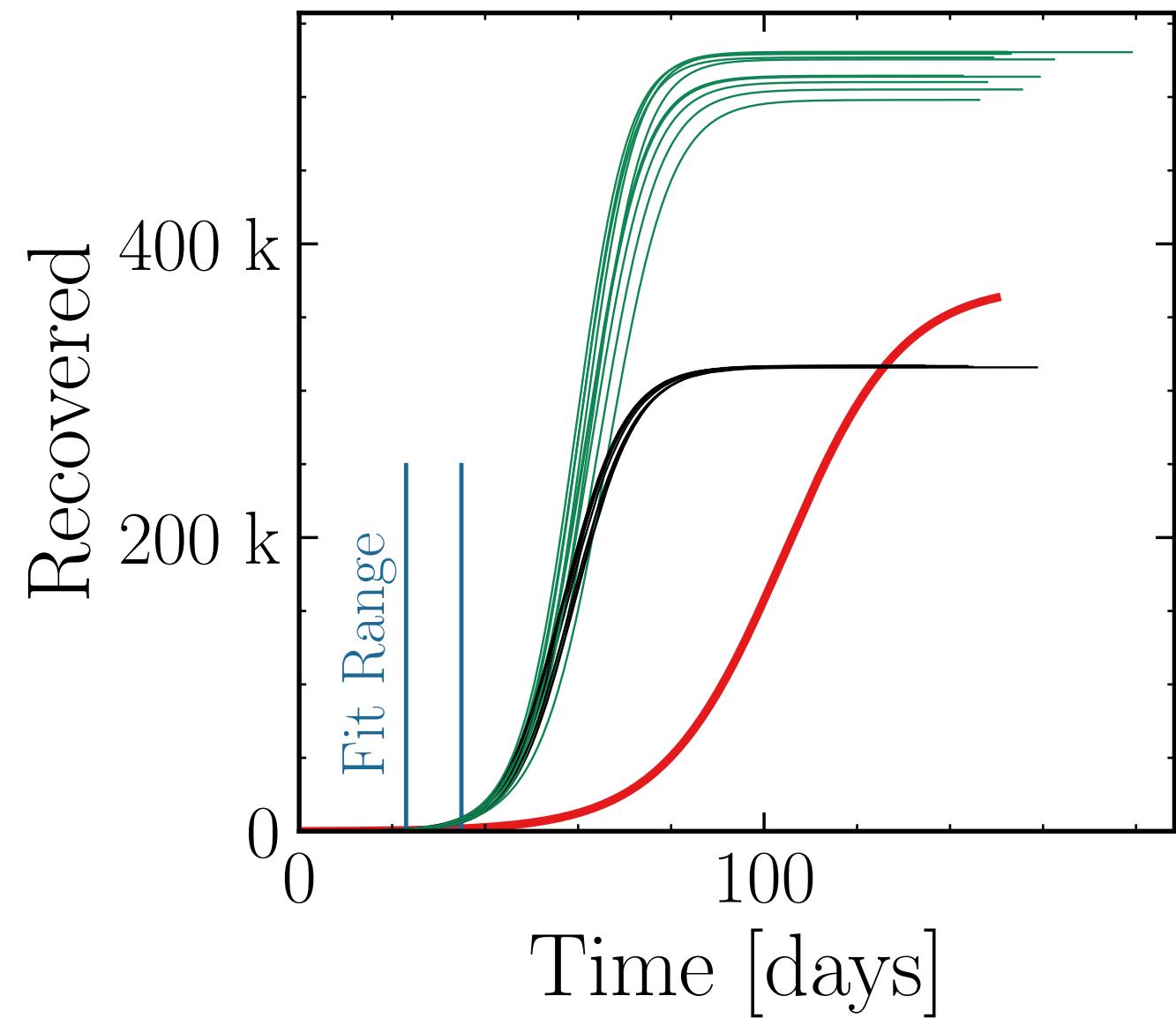
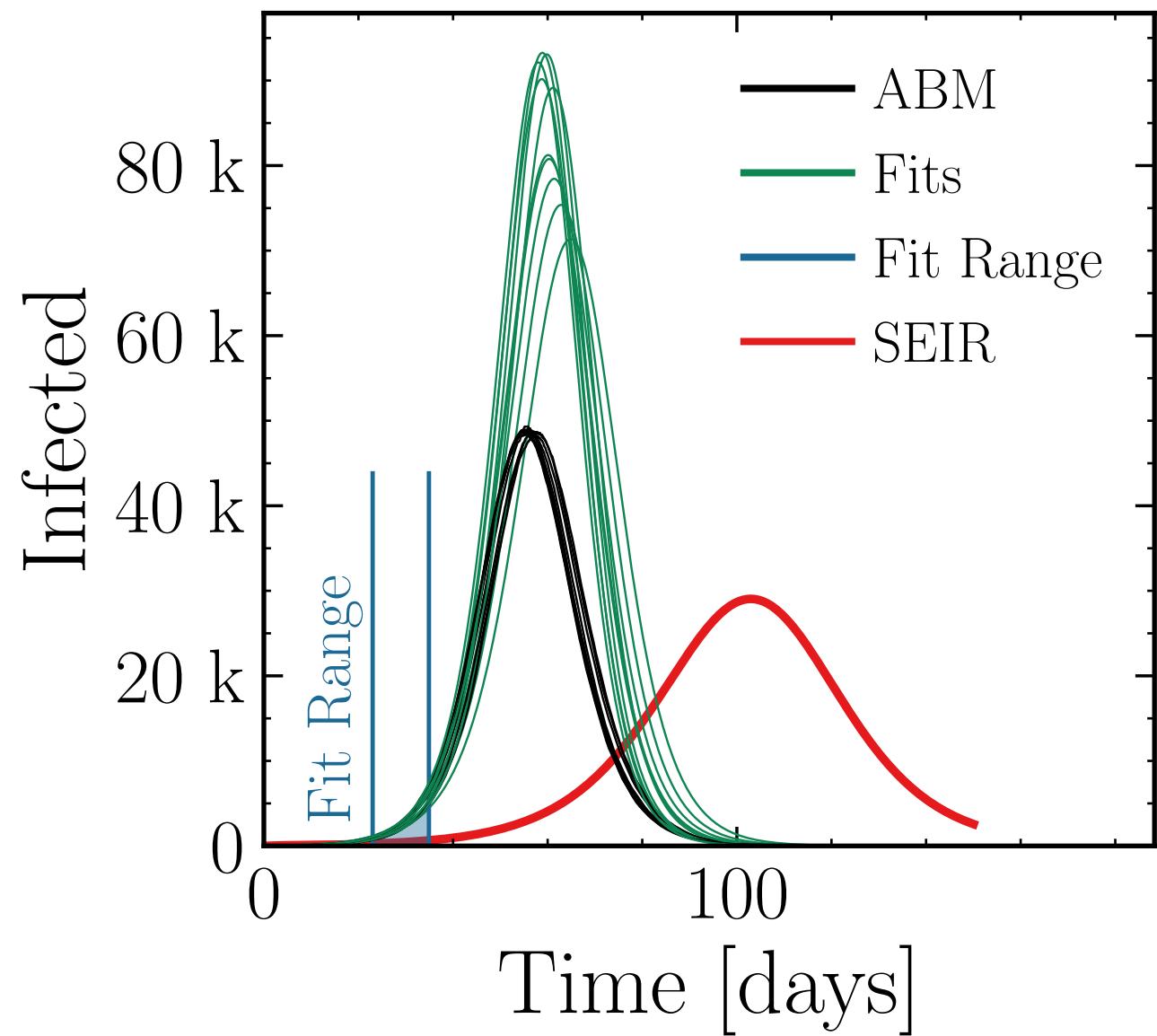
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (84 \pm 2.8\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (518 \pm 0.68\%) \cdot 10^3$$

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



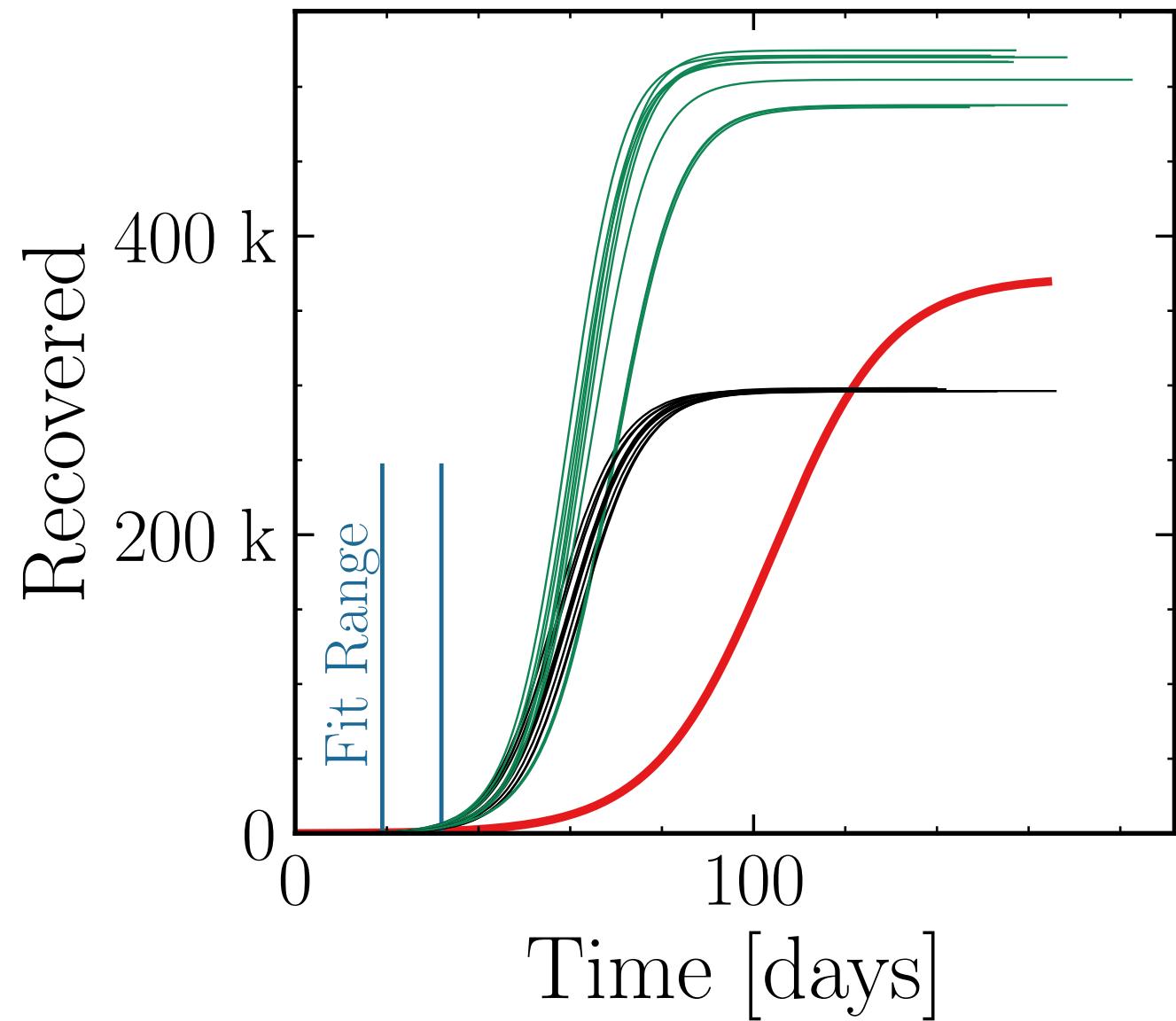
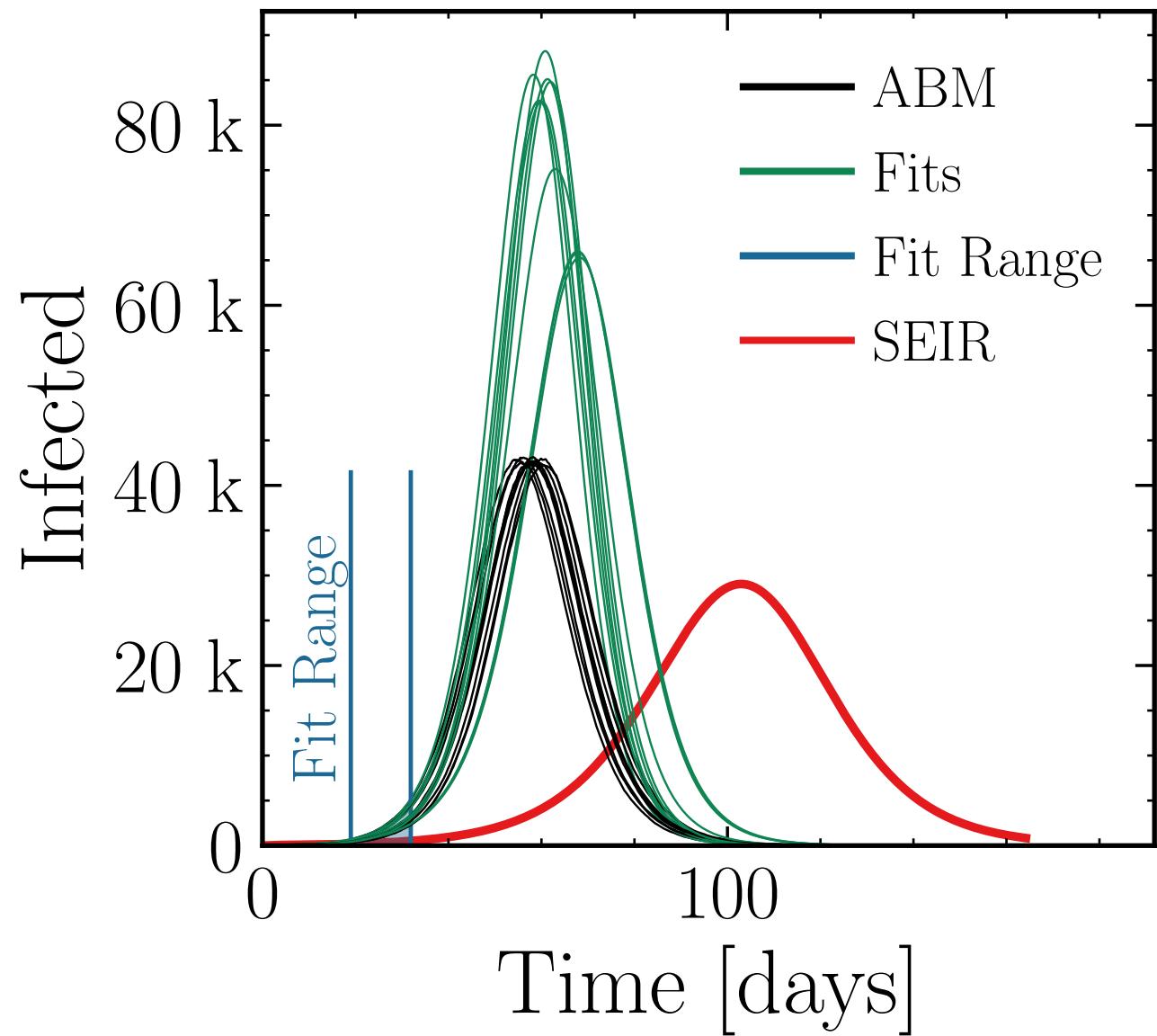
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (78 \pm 3.5\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (508 \pm 0.92\%) \cdot 10^3$$

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



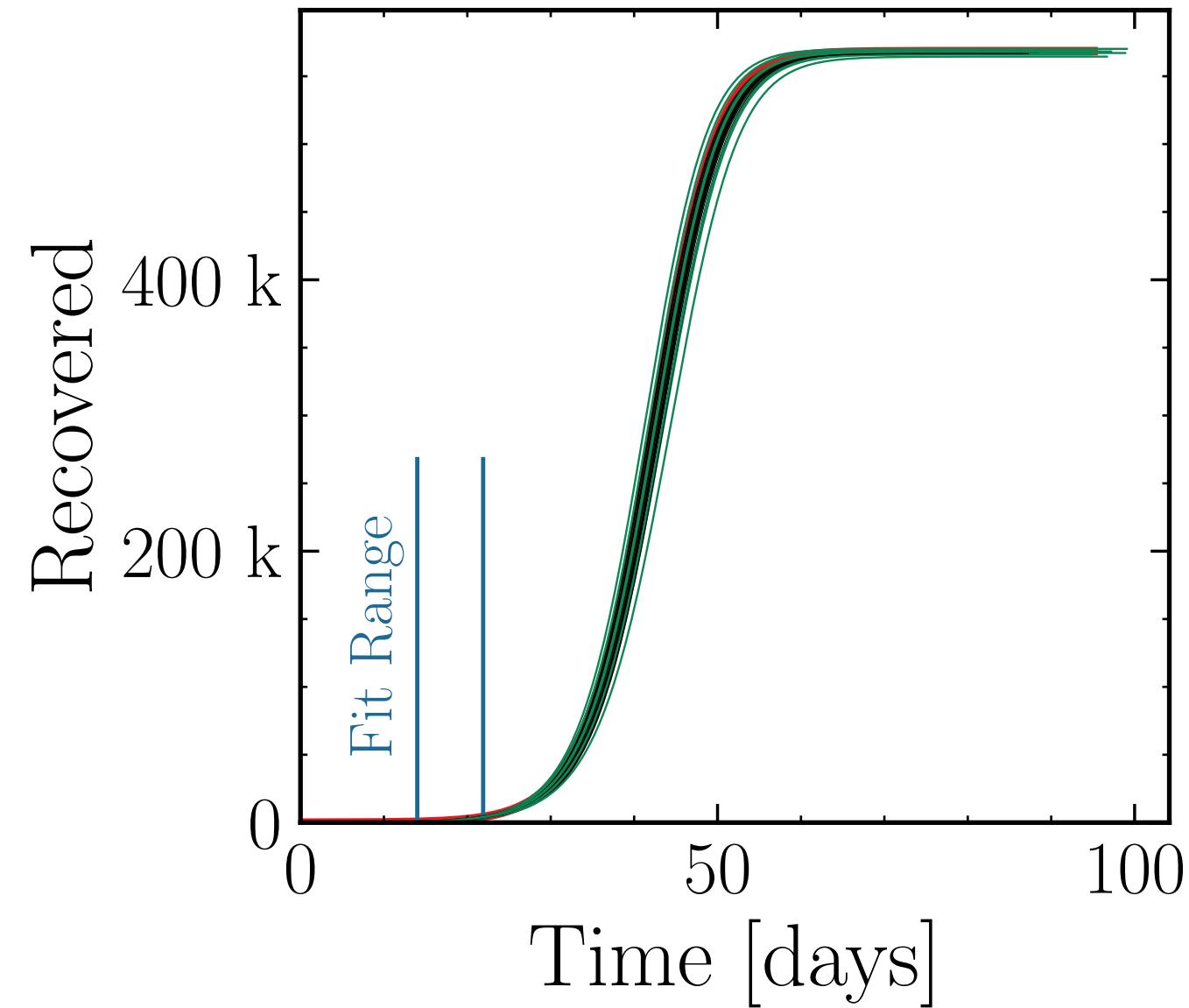
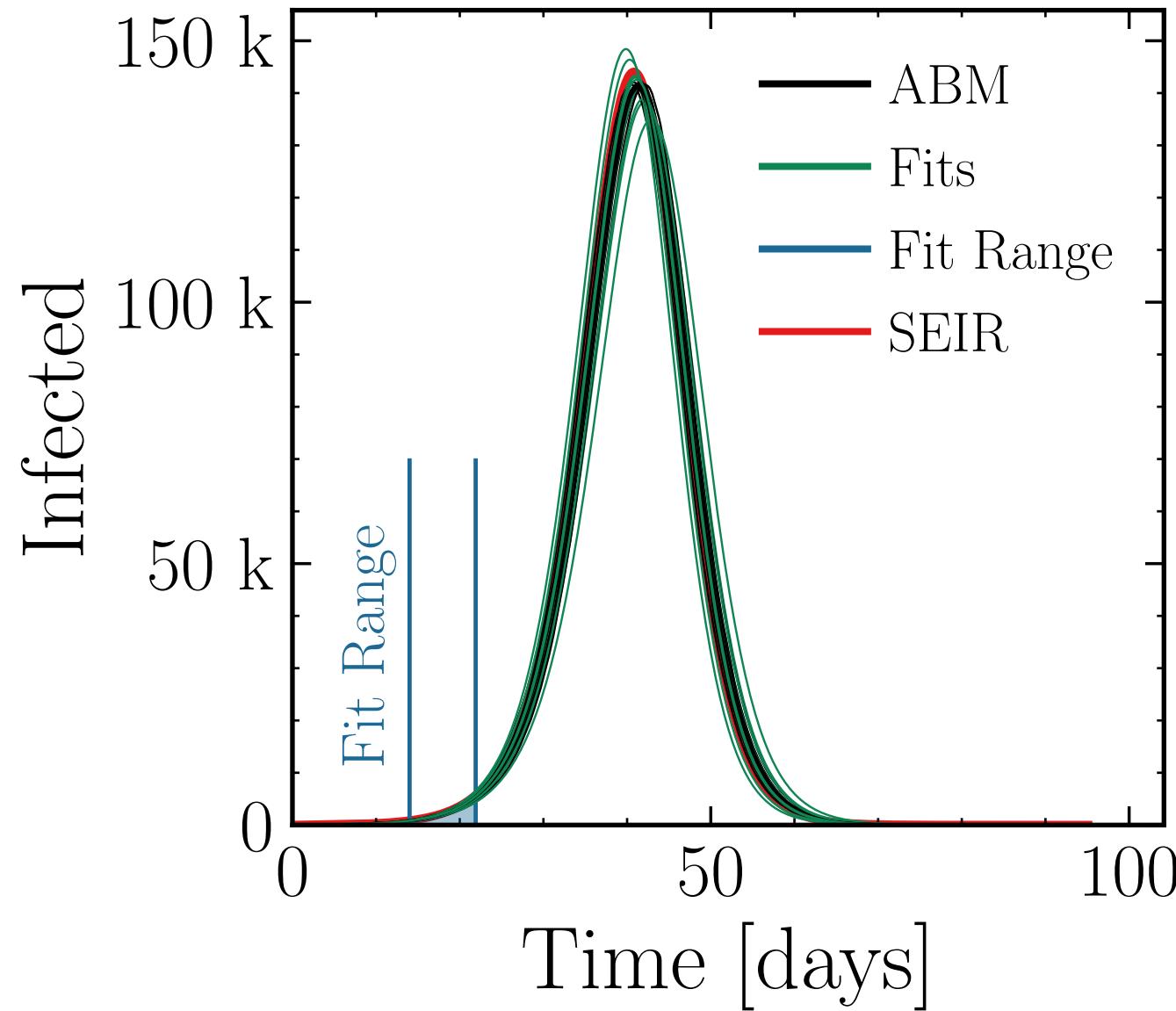
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 100.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (142 \pm 0.83\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.002 \pm 0.0084$$

$$R_{\infty}^{\text{fit}} = (567.6 \pm 0.089\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.0007 \pm 0.00088$$



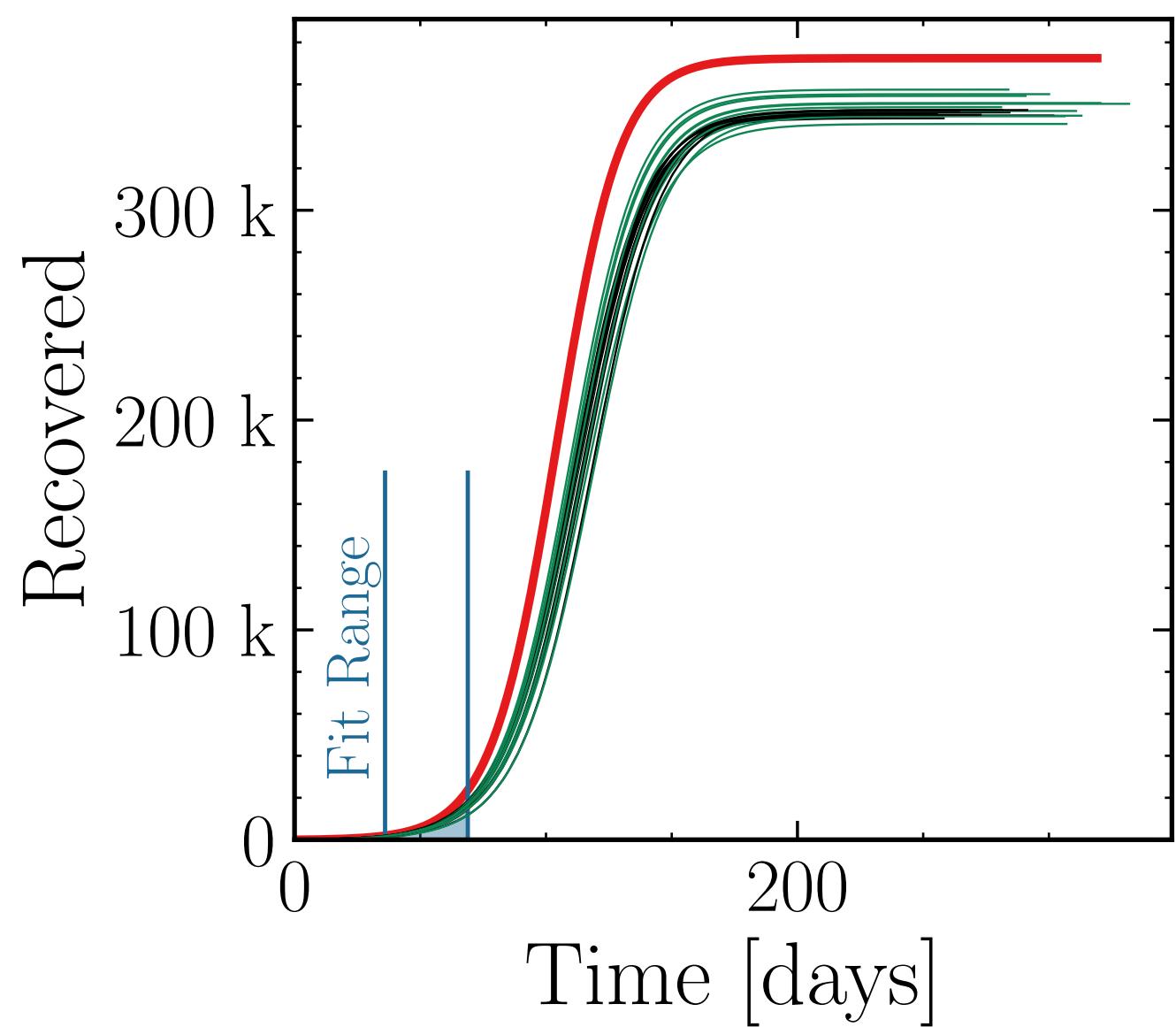
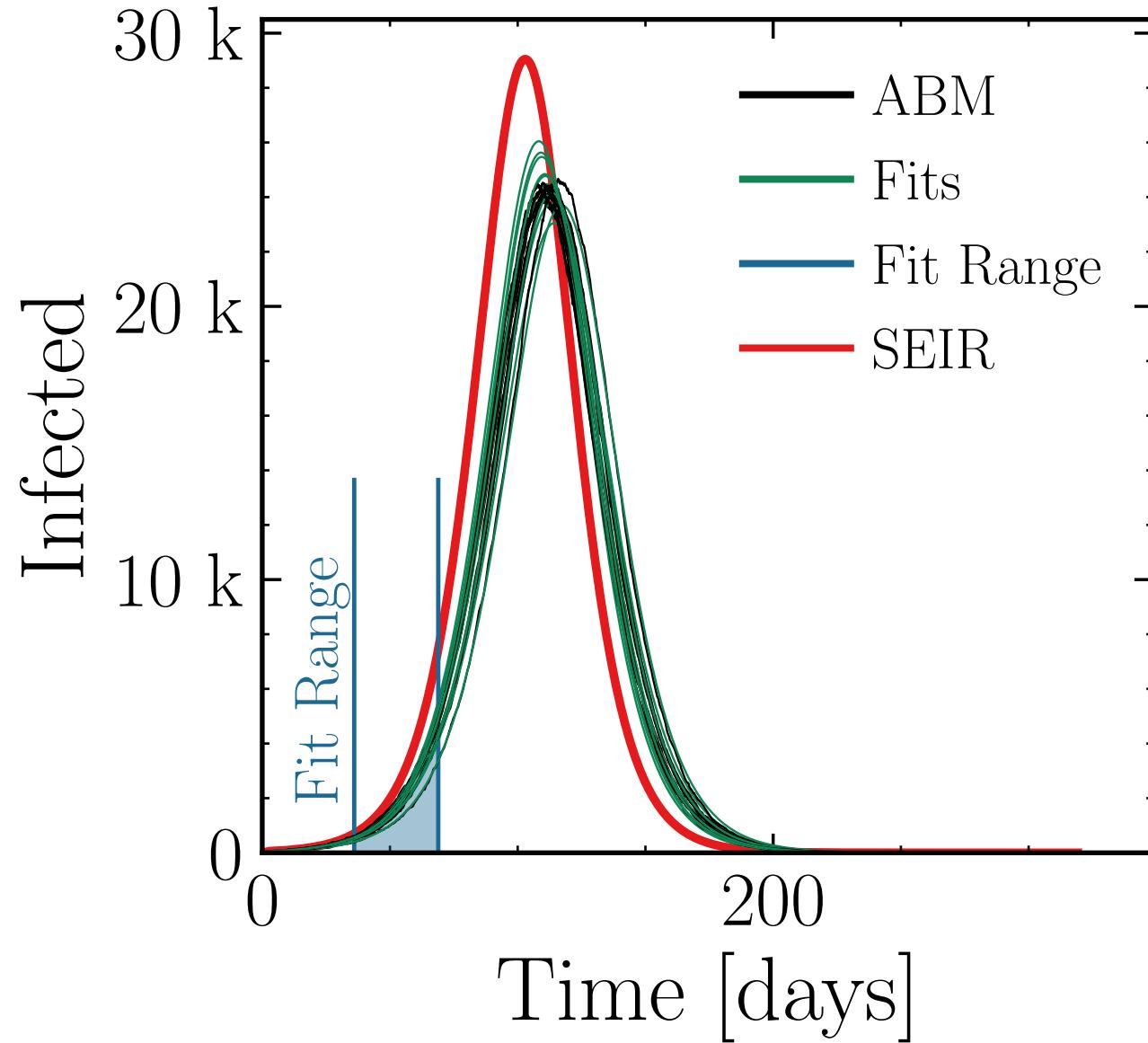
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (24.6 \pm 1.2\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.013$$

$$R_{\infty}^{\text{fit}} = (350 \pm 0.45\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.009 \pm 0.0053$$



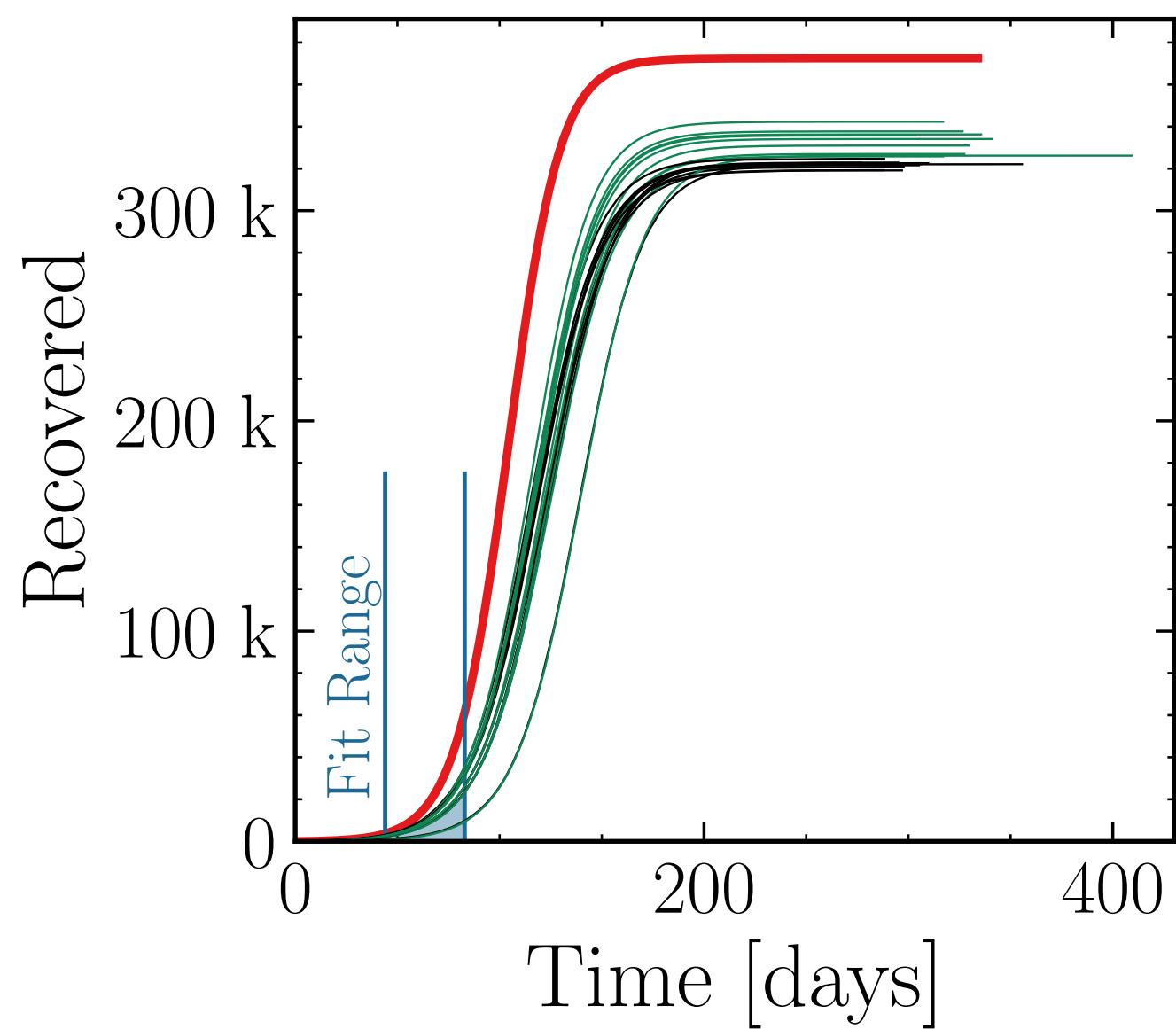
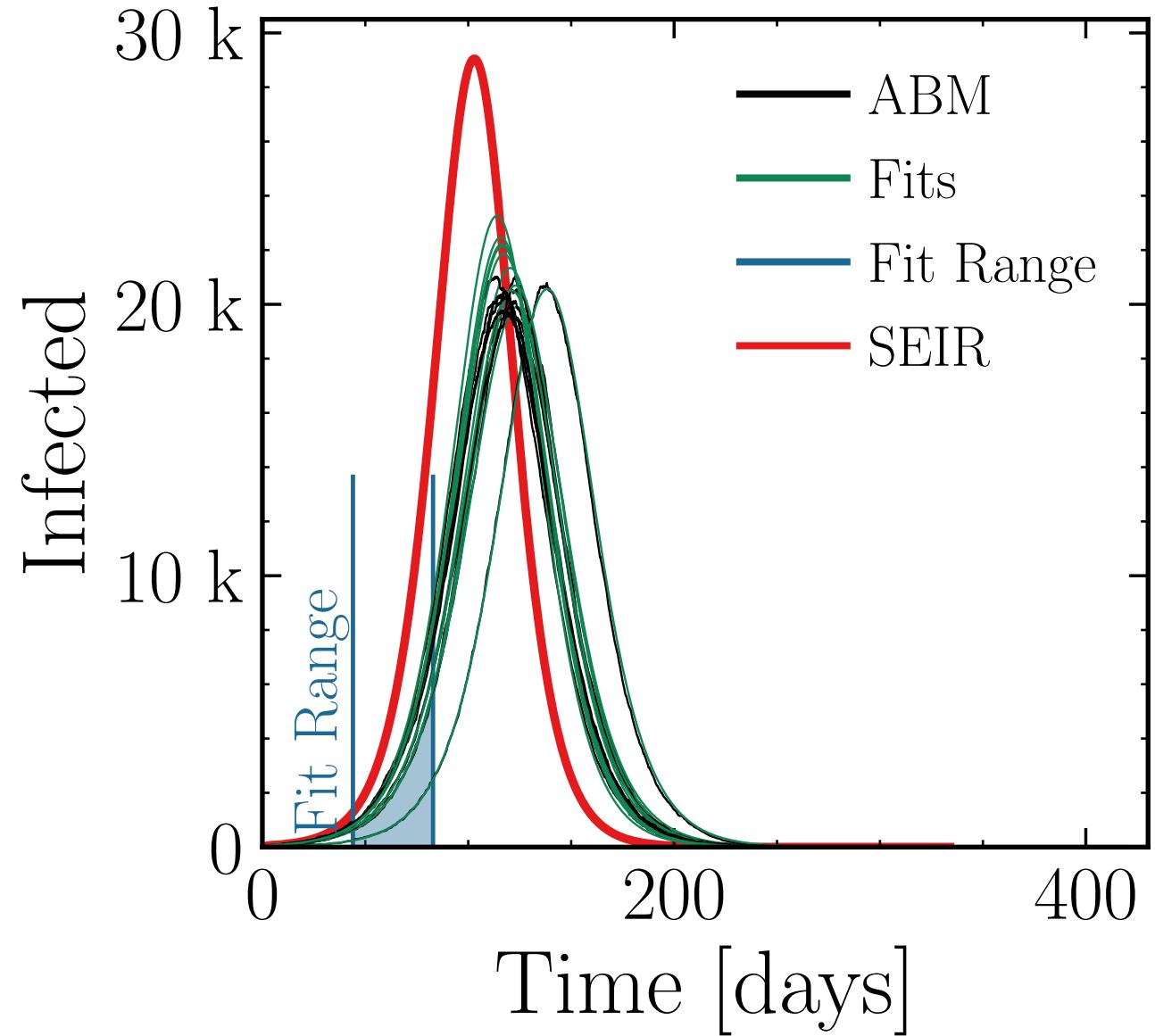
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (21.5 \pm 1.5\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.05 \pm 0.017$$

$$R_{\infty}^{\text{fit}} = (332 \pm 0.59\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.031 \pm 0.0059$$



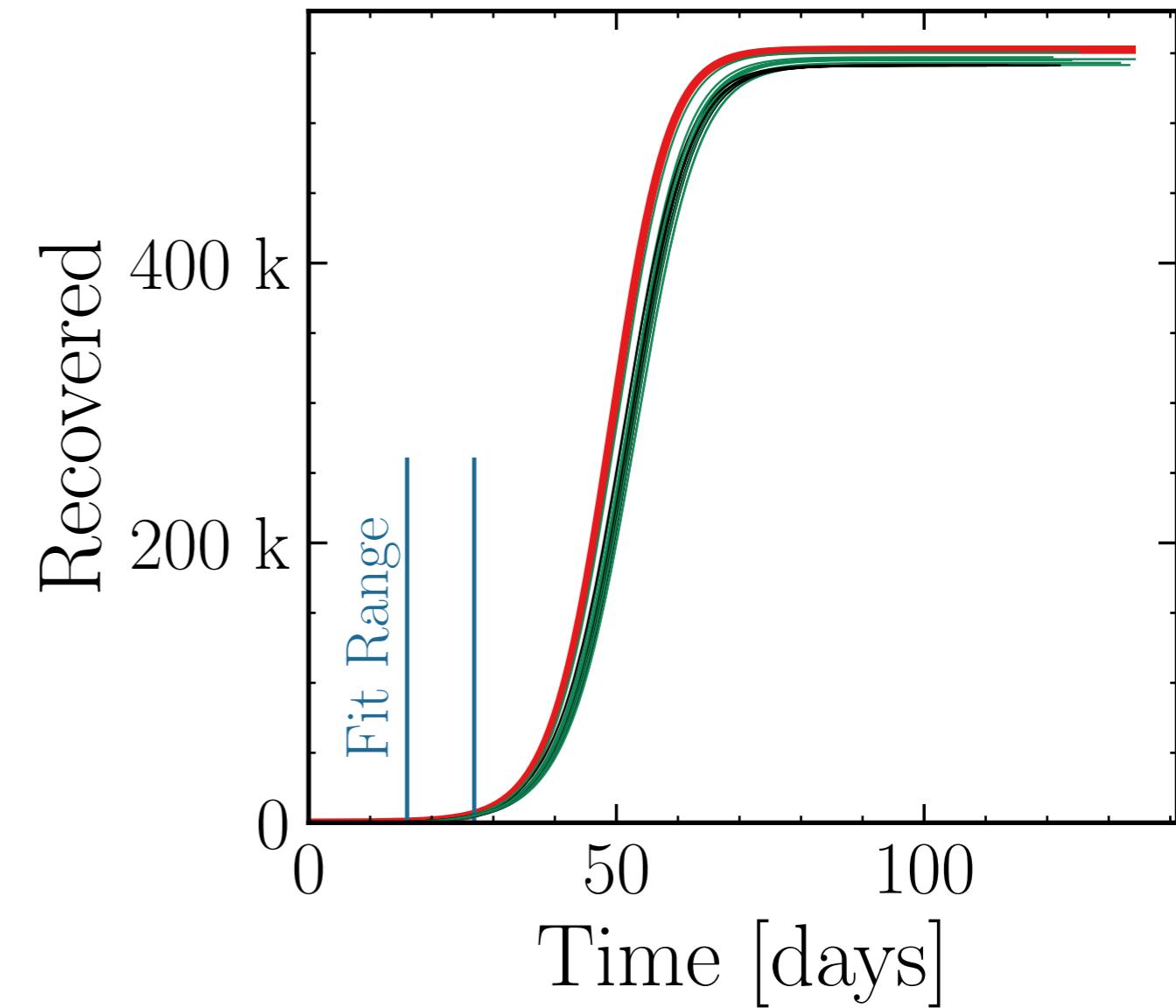
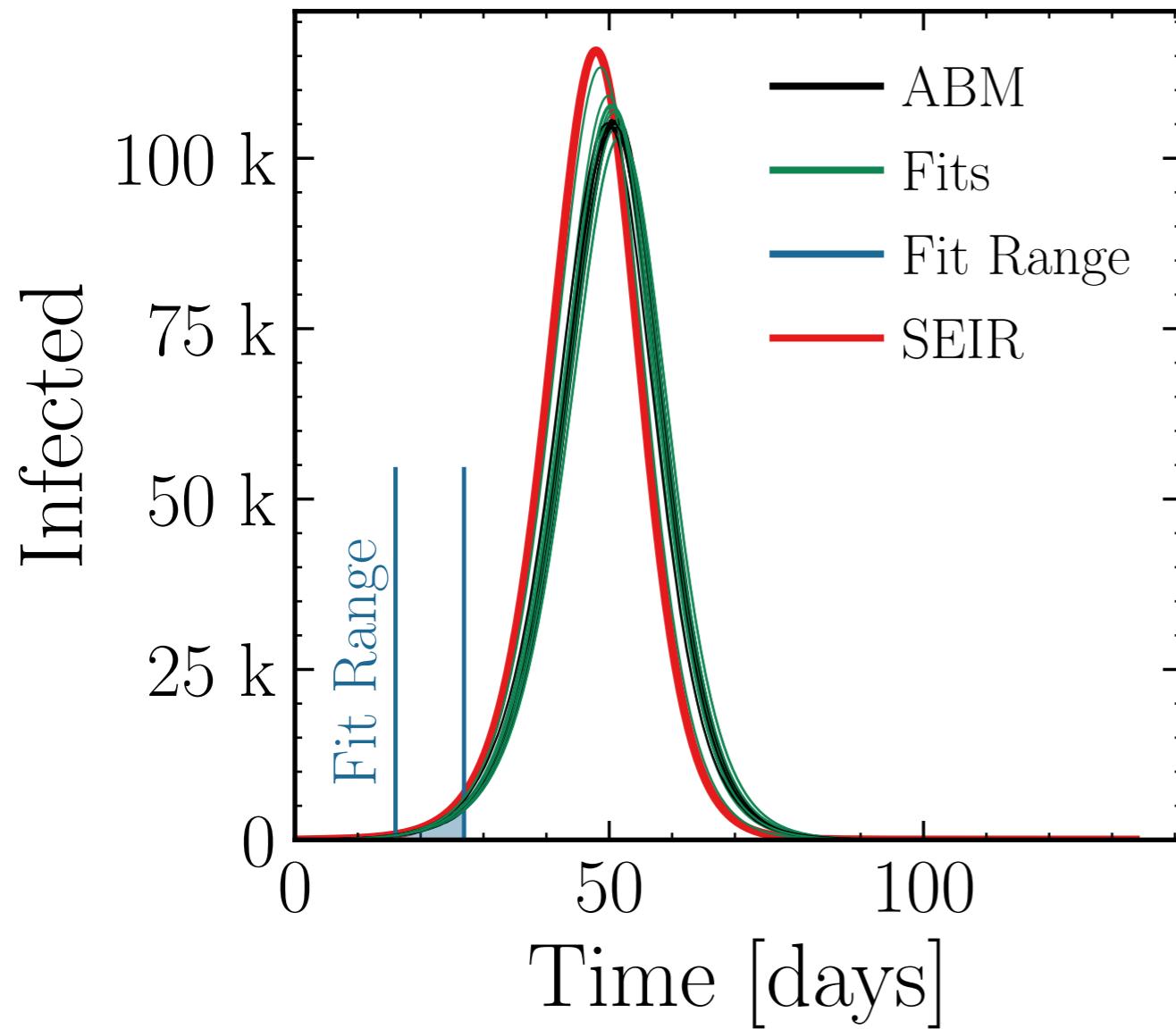
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (107.1 \pm 0.83\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (545.3 \pm 0.15\%) \cdot 10^3$$

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



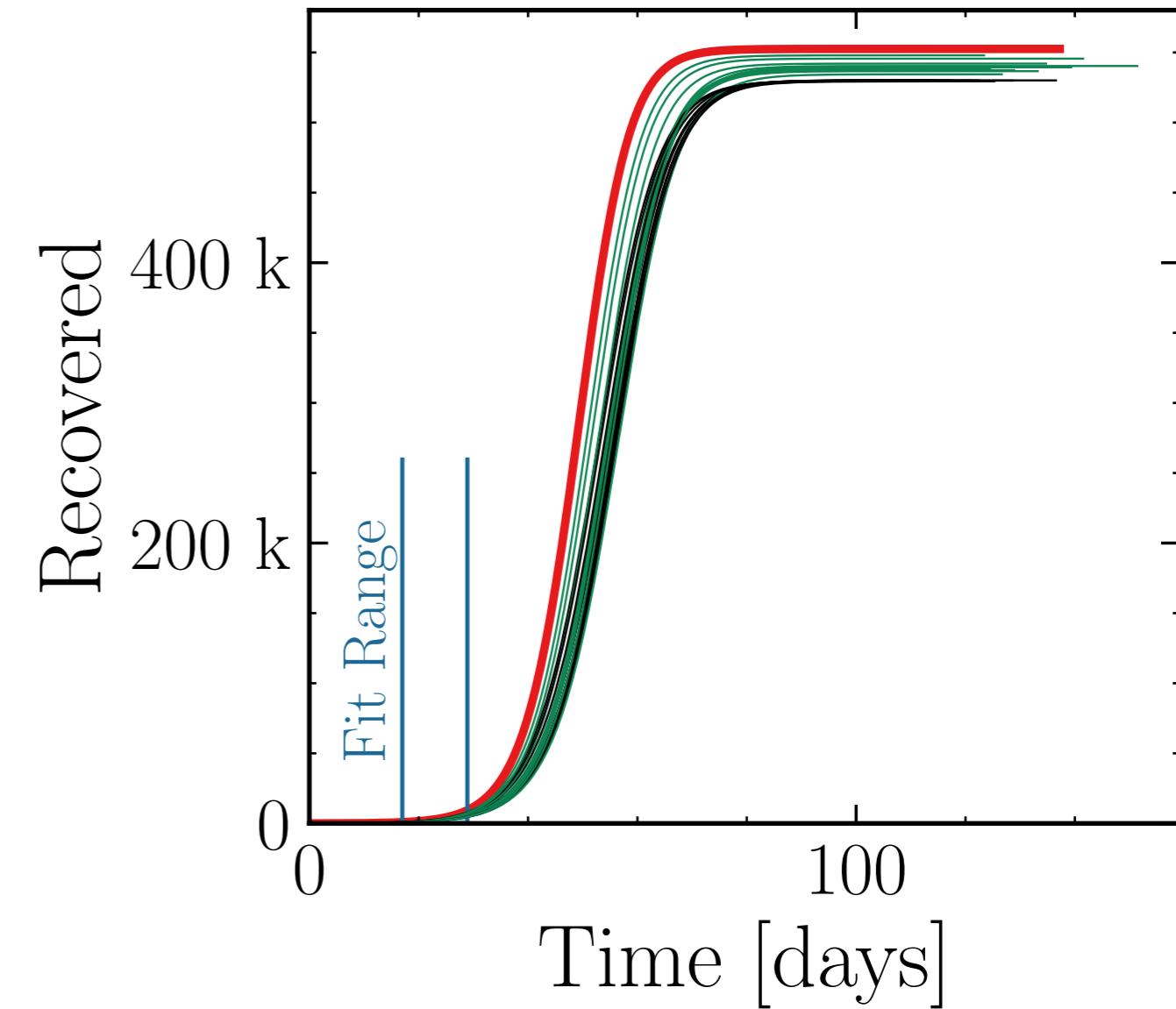
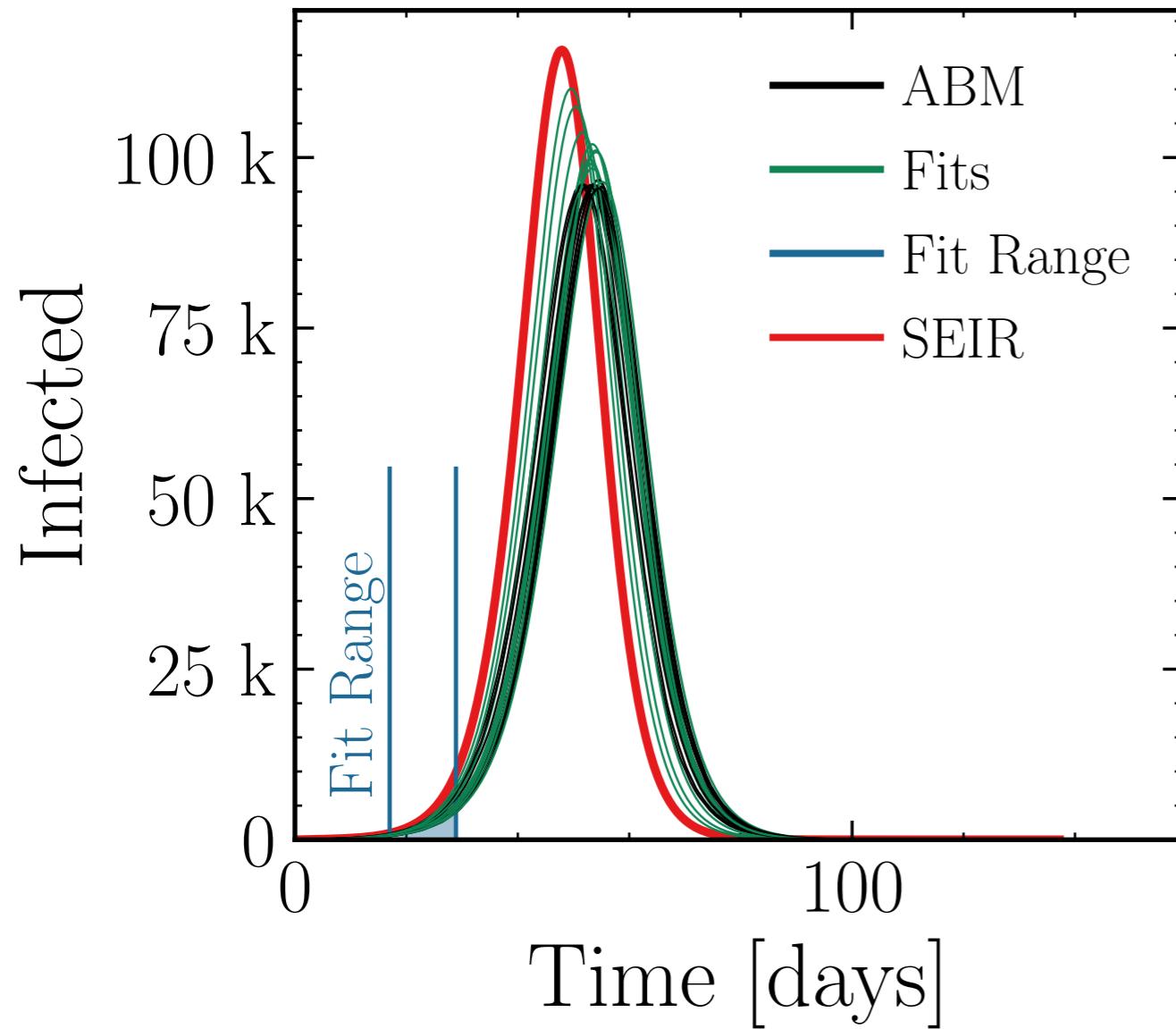
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (102 \pm 1.2\%) \cdot 10^3$$

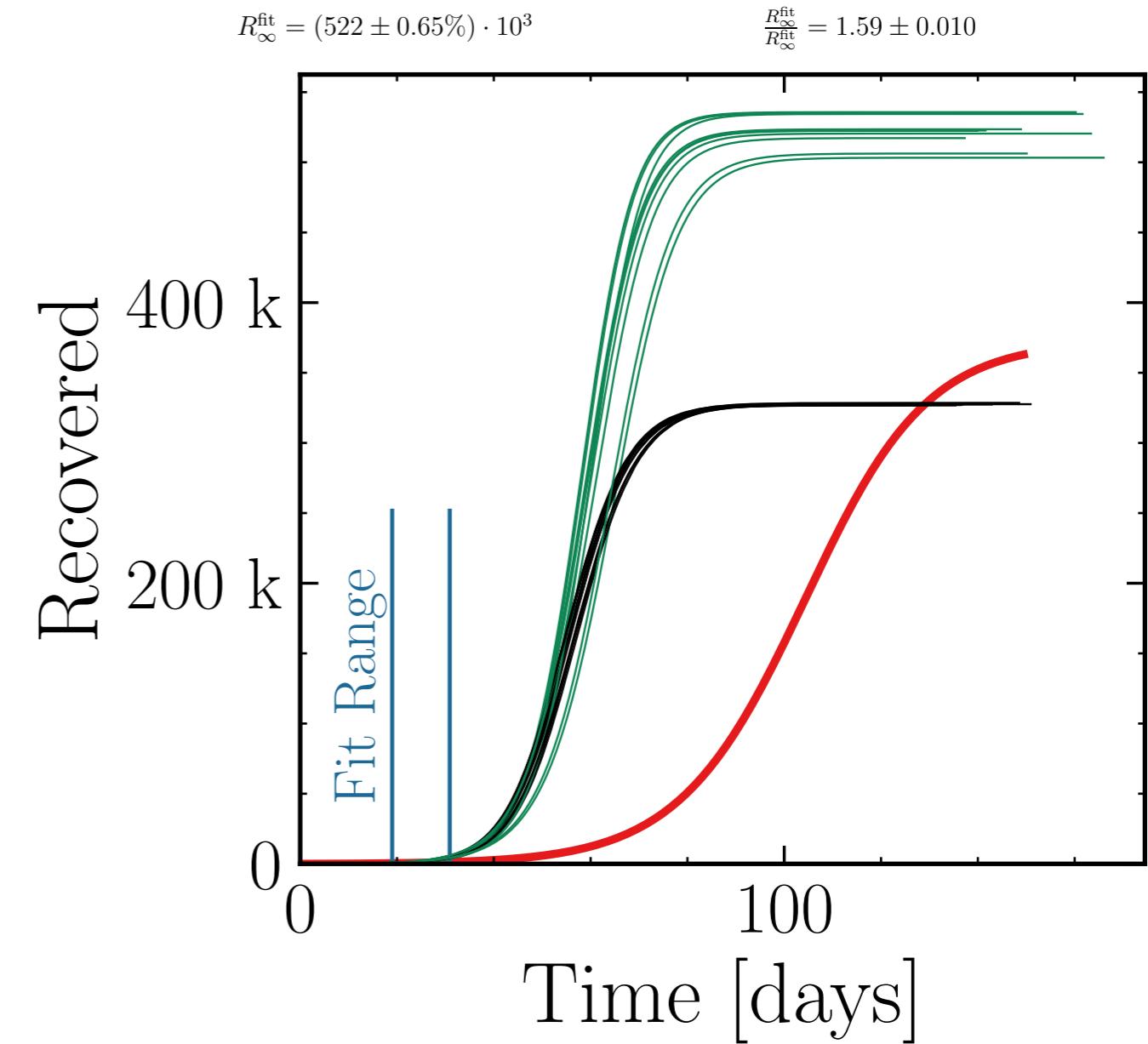
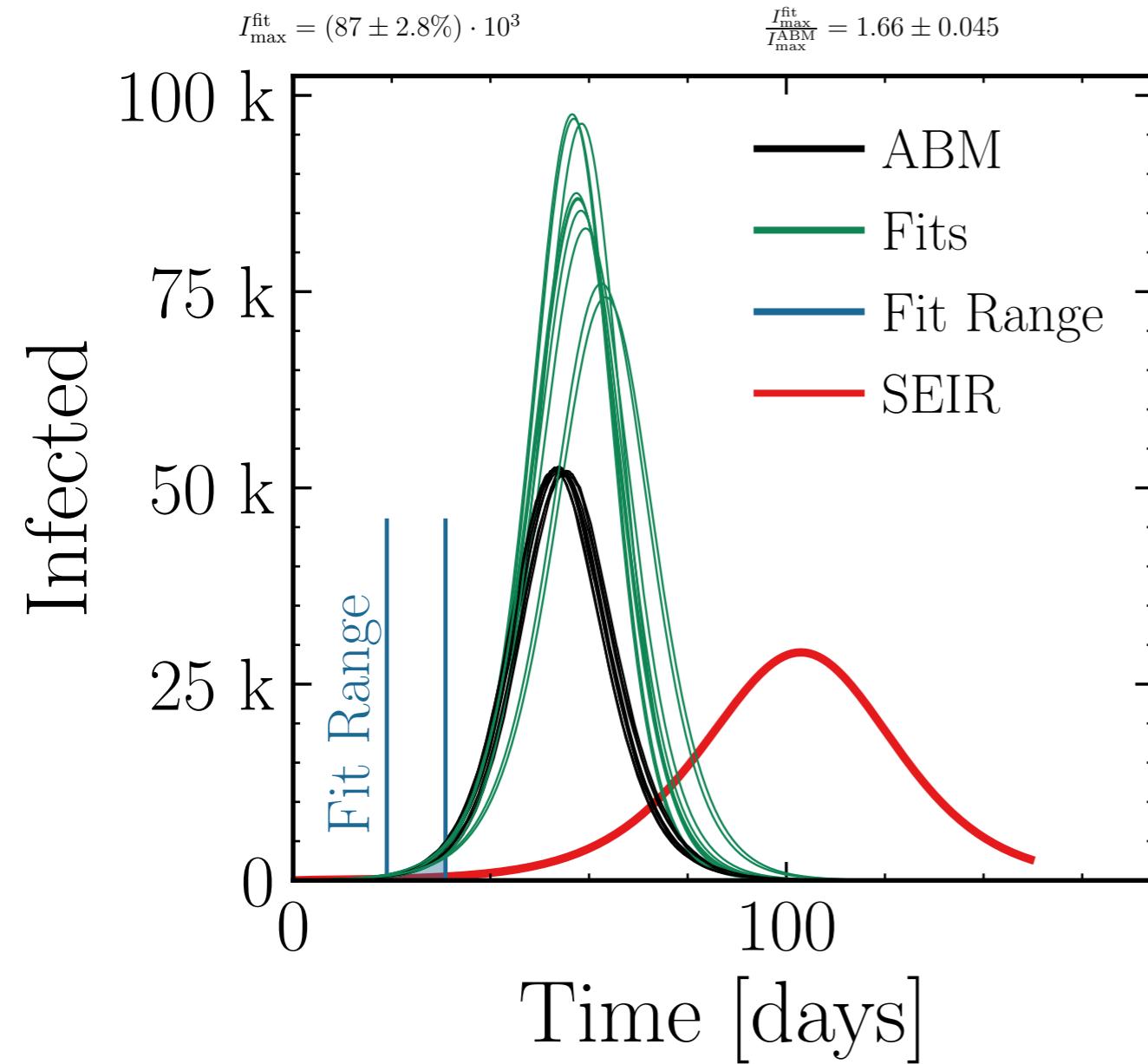
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.06 \pm 0.013$$

$$R_{\infty}^{\text{fit}} = (540 \pm 0.23\%) \cdot 10^3$$

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



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , 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



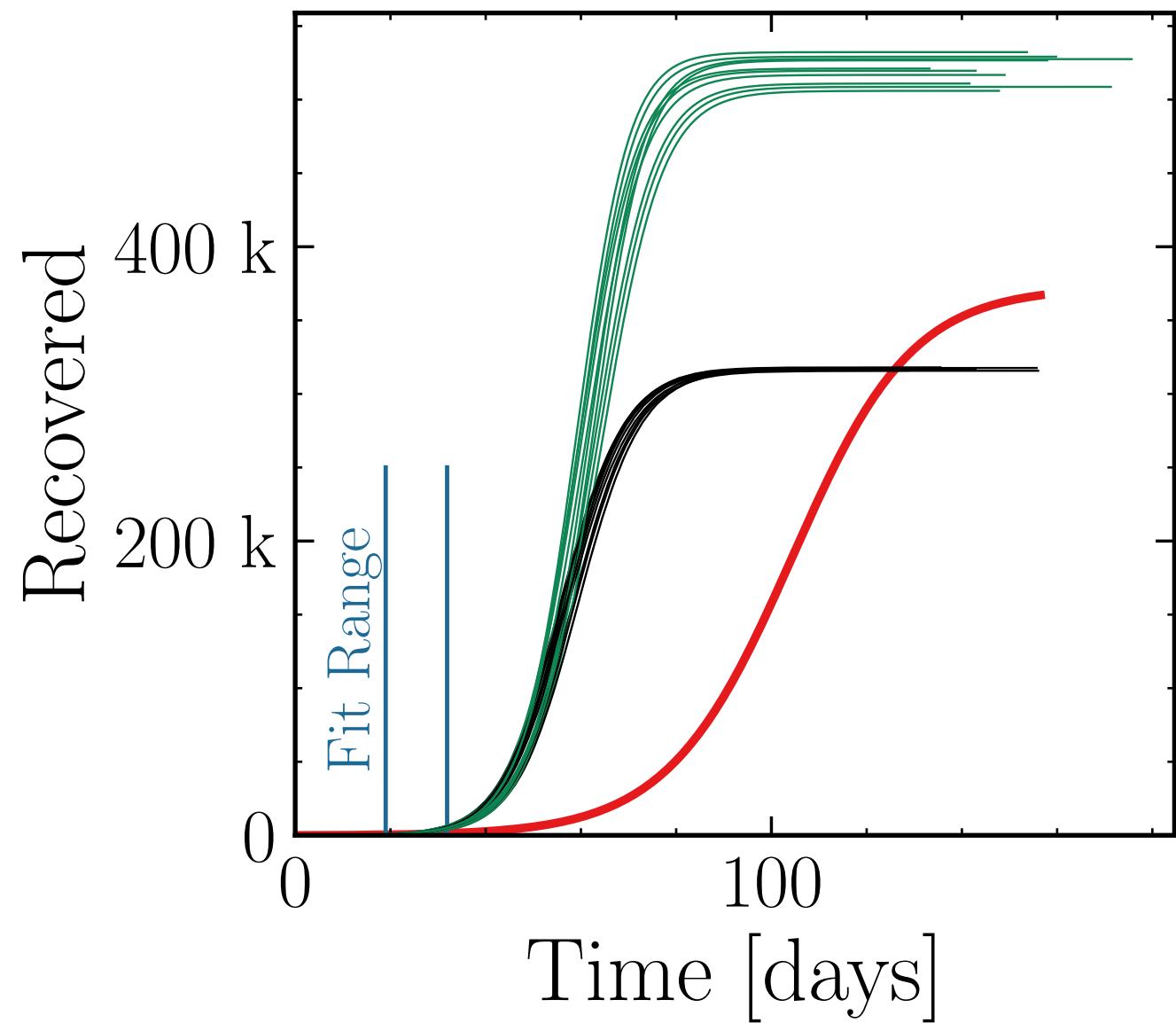
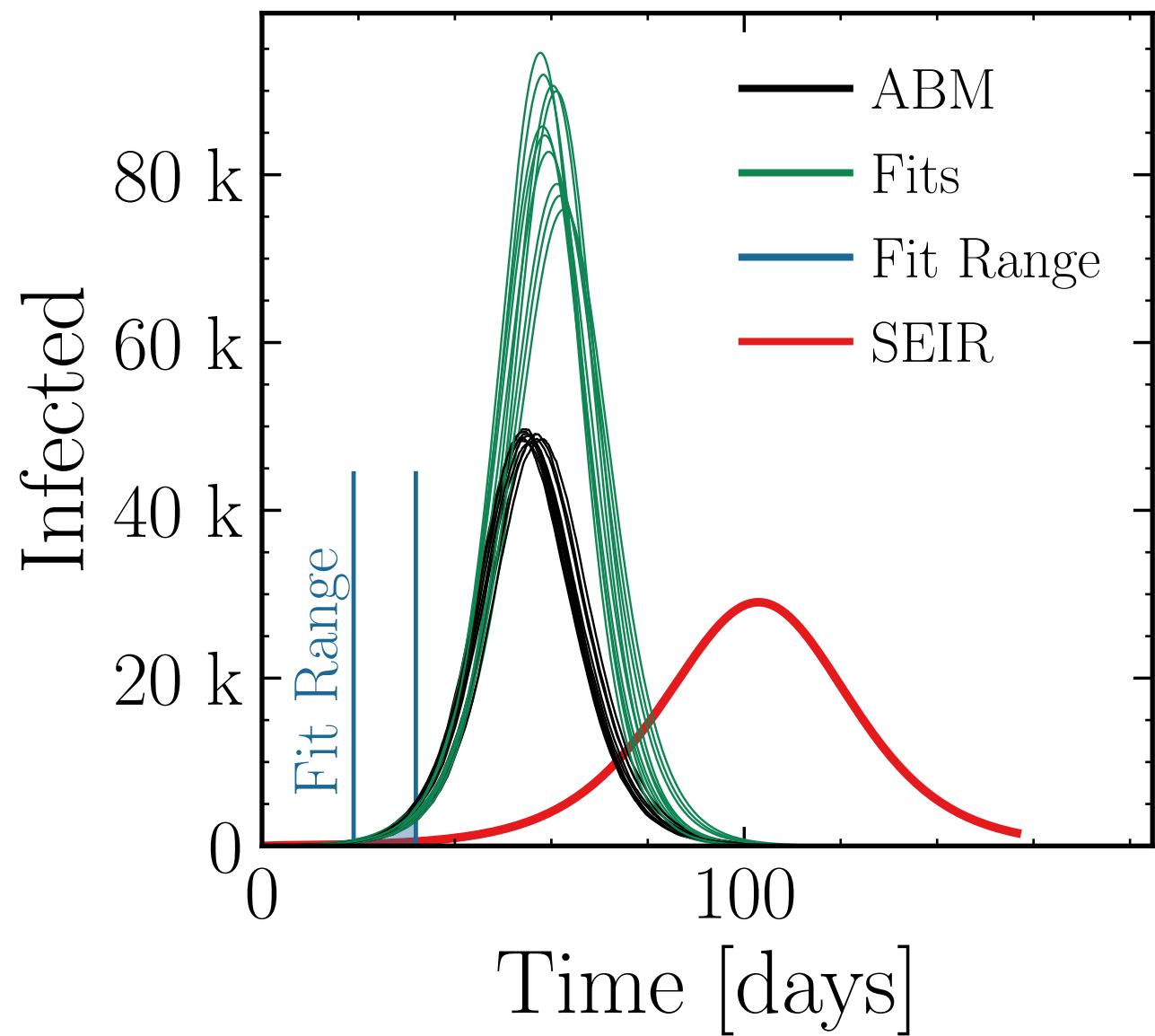
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (85 \pm 2.3\%) \cdot 10^3$$

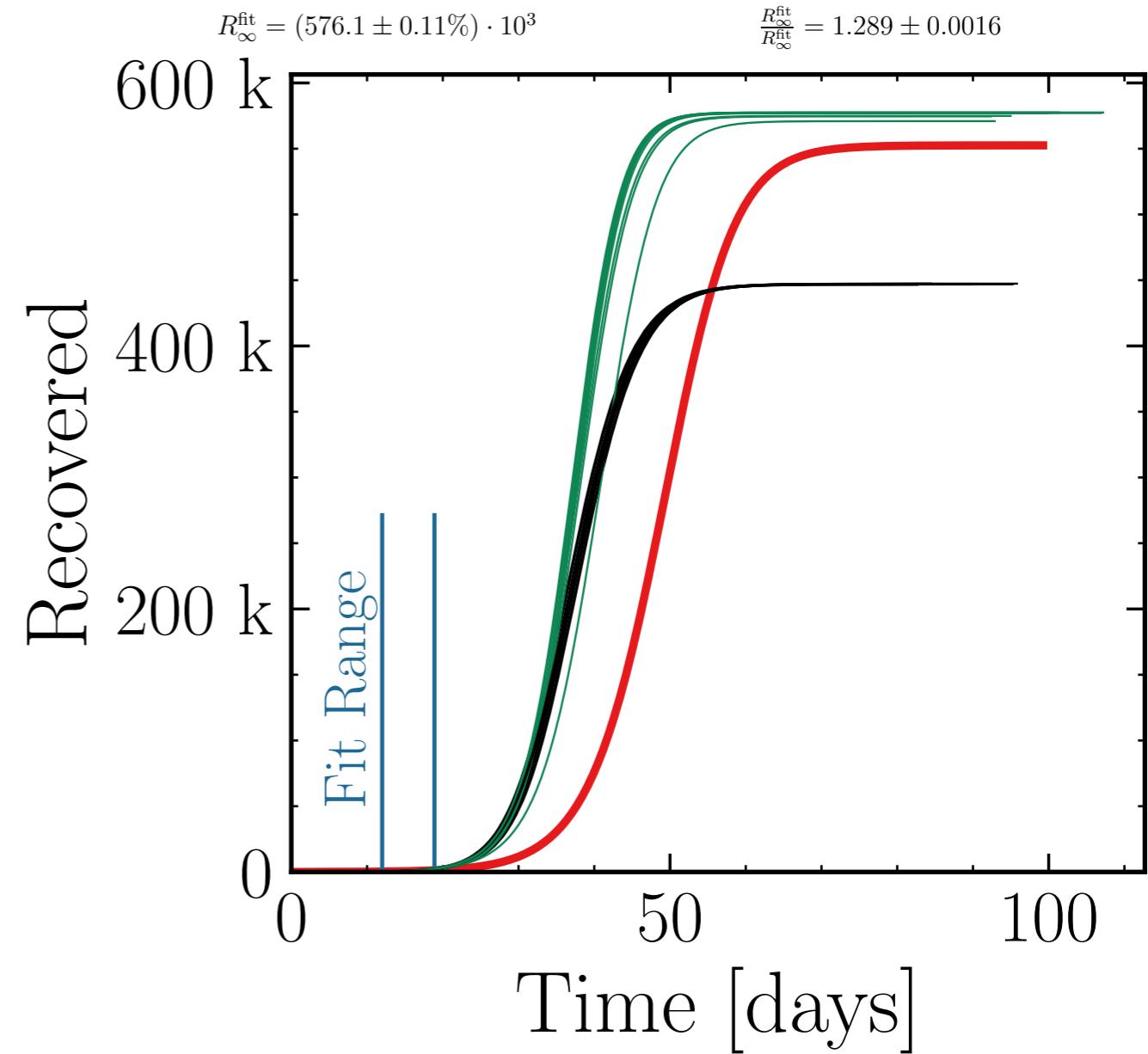
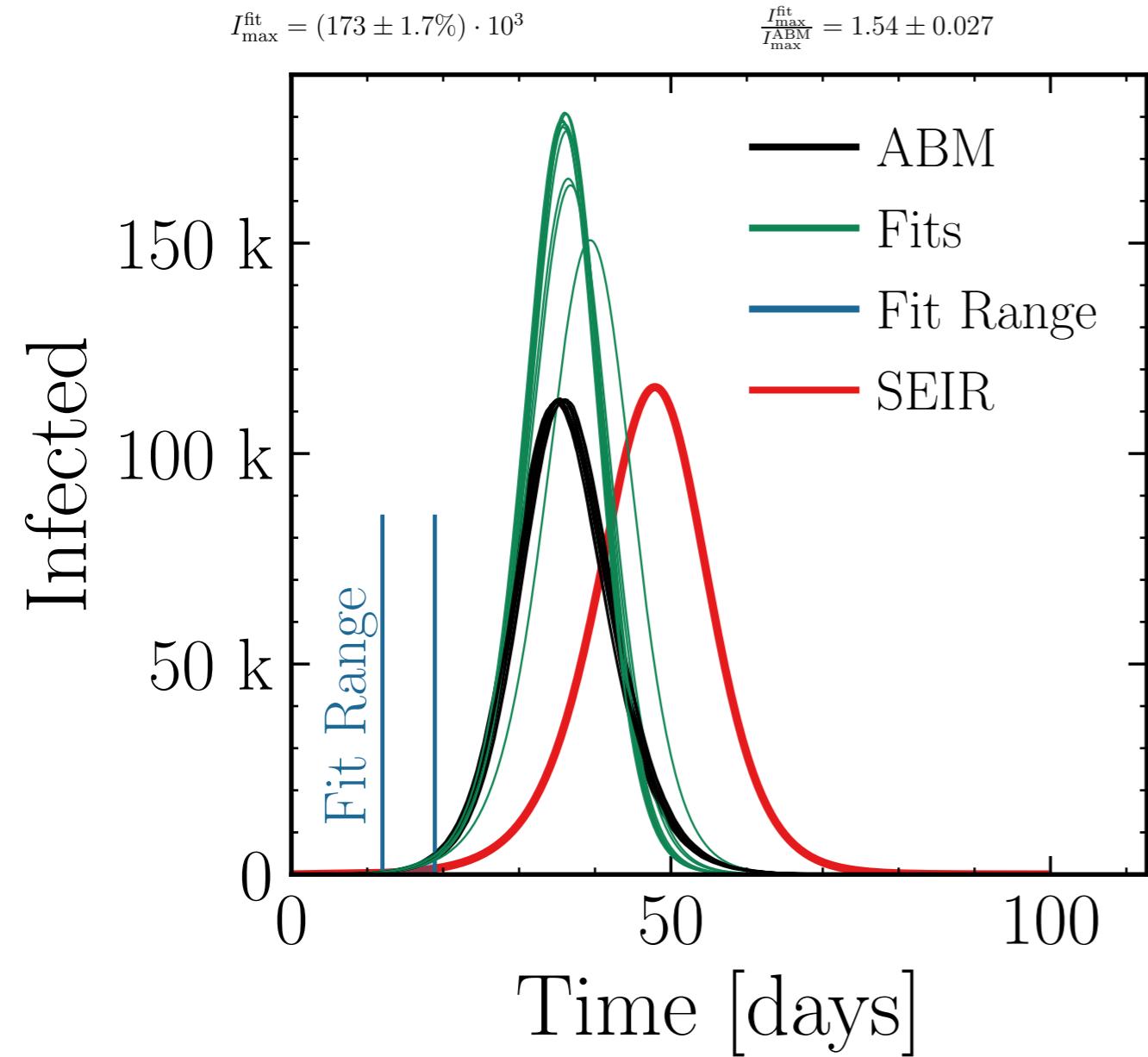
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.75 \pm 0.039$$

$$R_{\infty}^{\text{fit}} = (520 \pm 0.53\%) \cdot 10^3$$

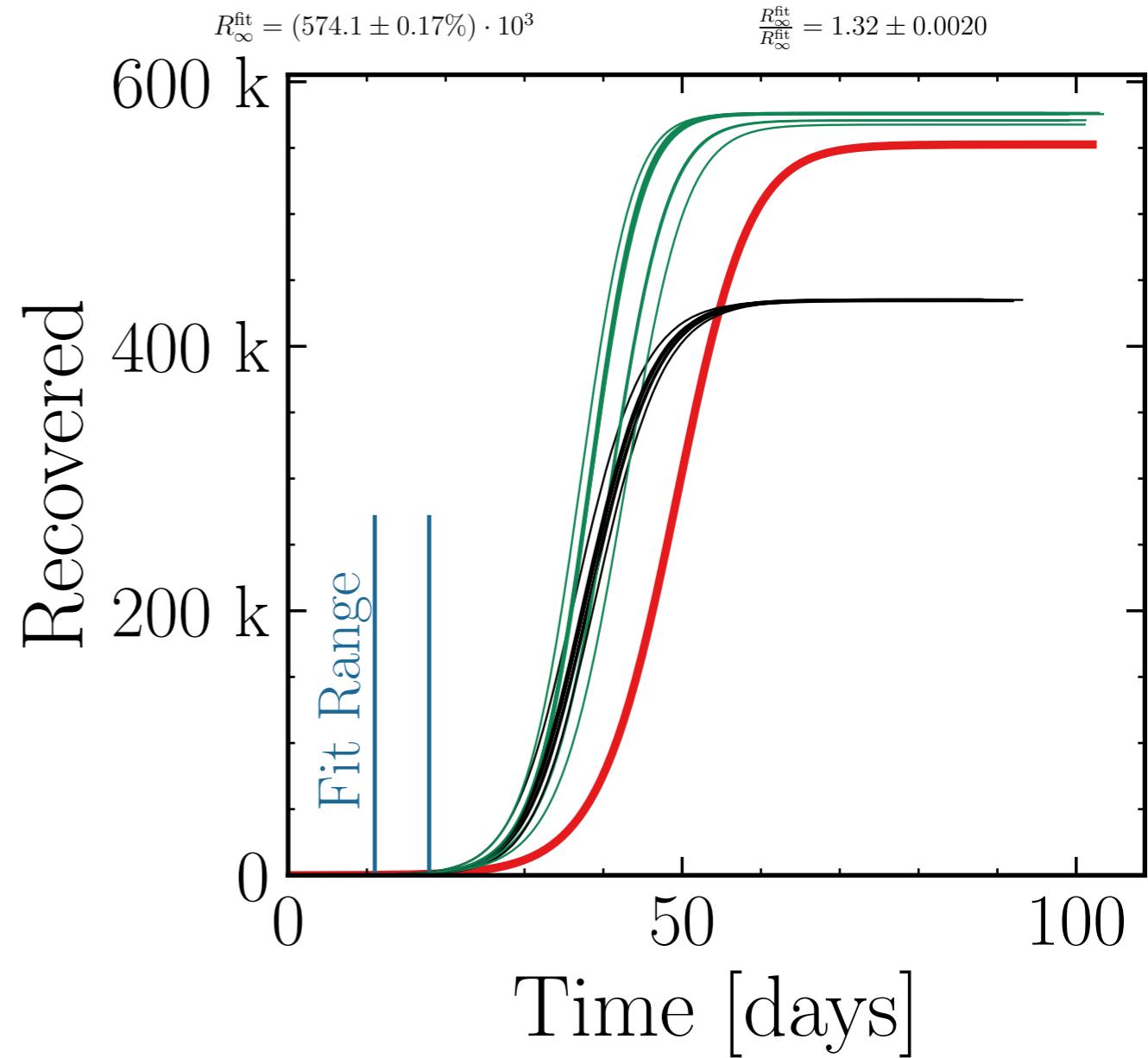
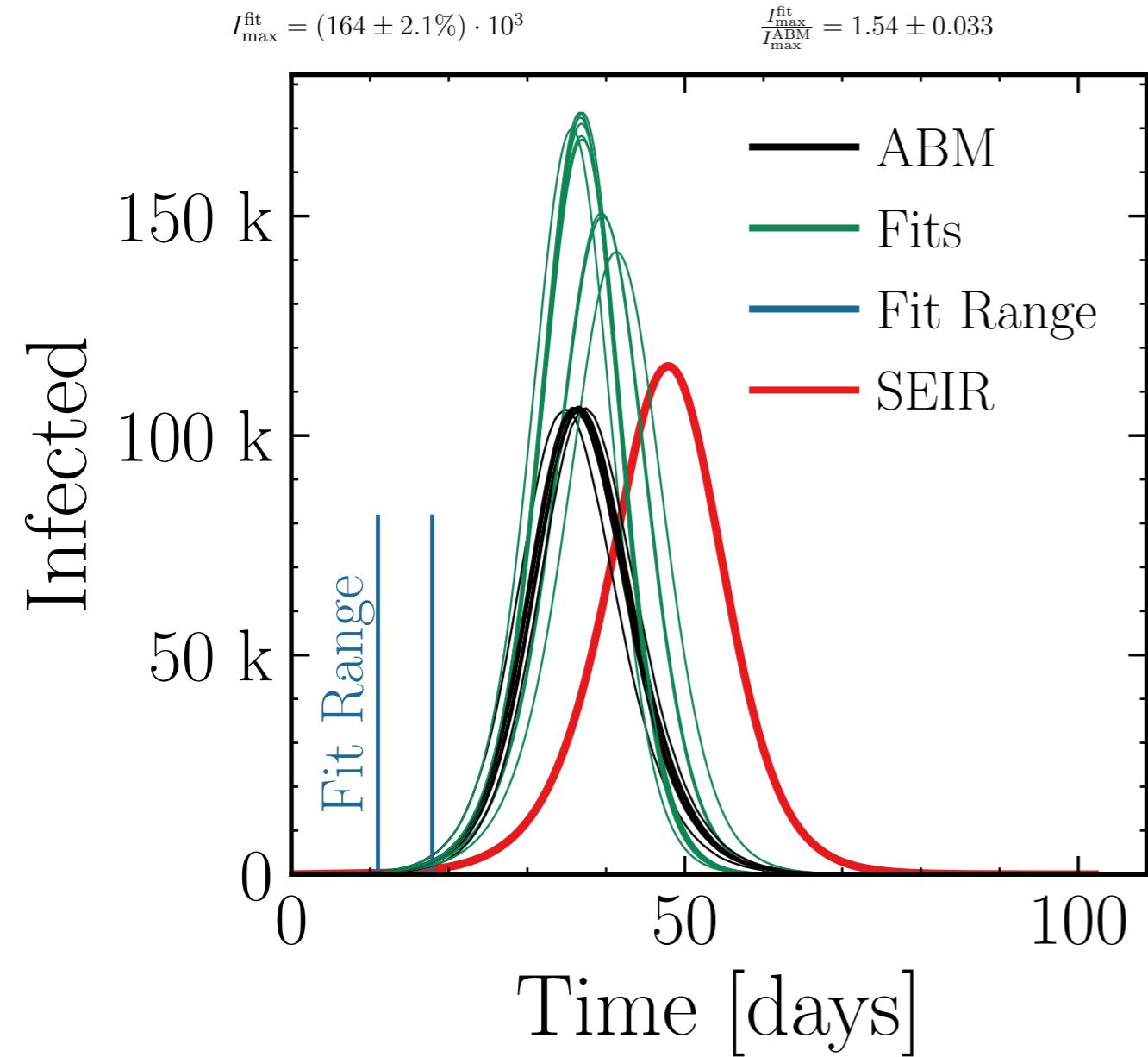
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.641 \pm 0.0090$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , 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



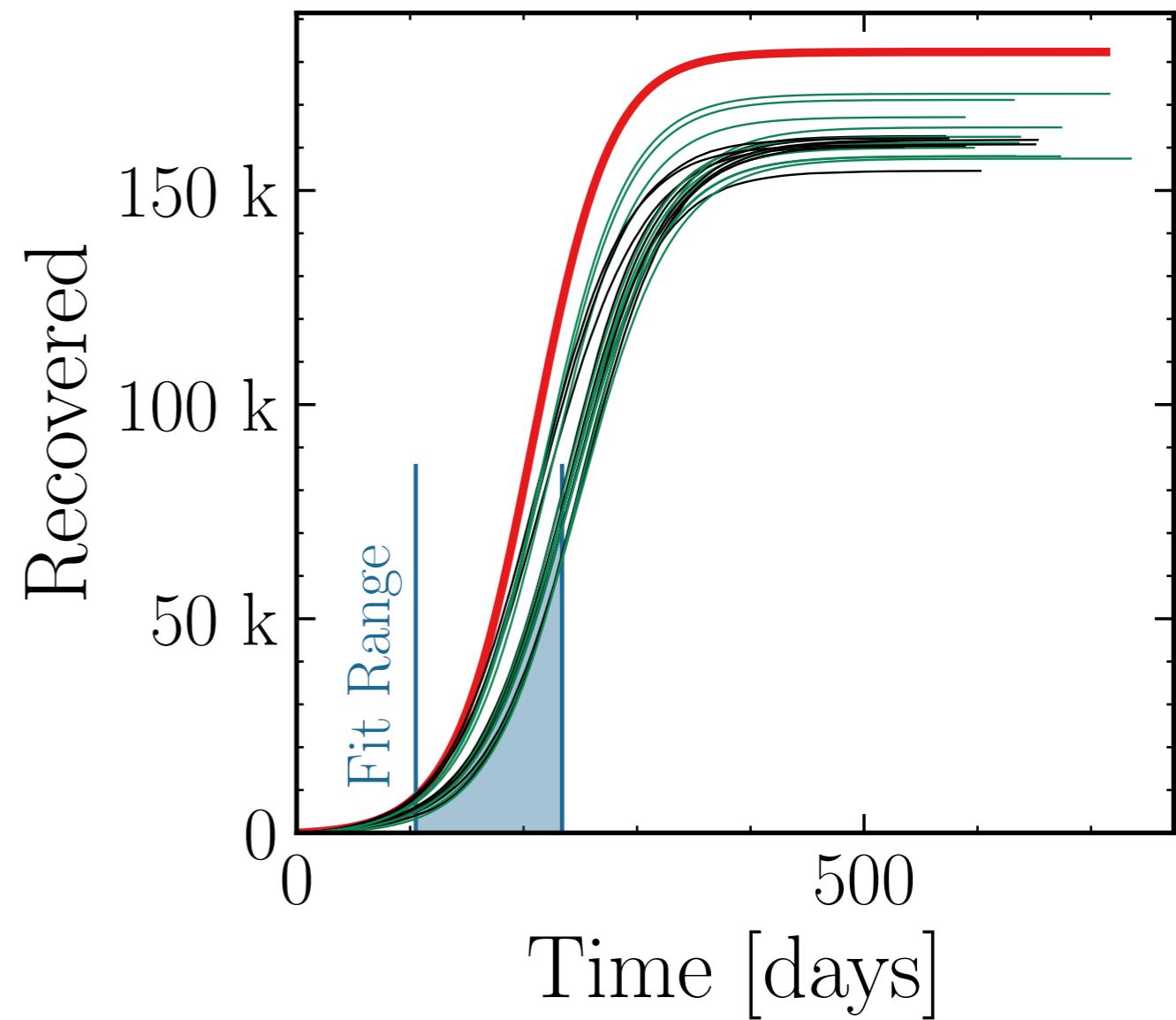
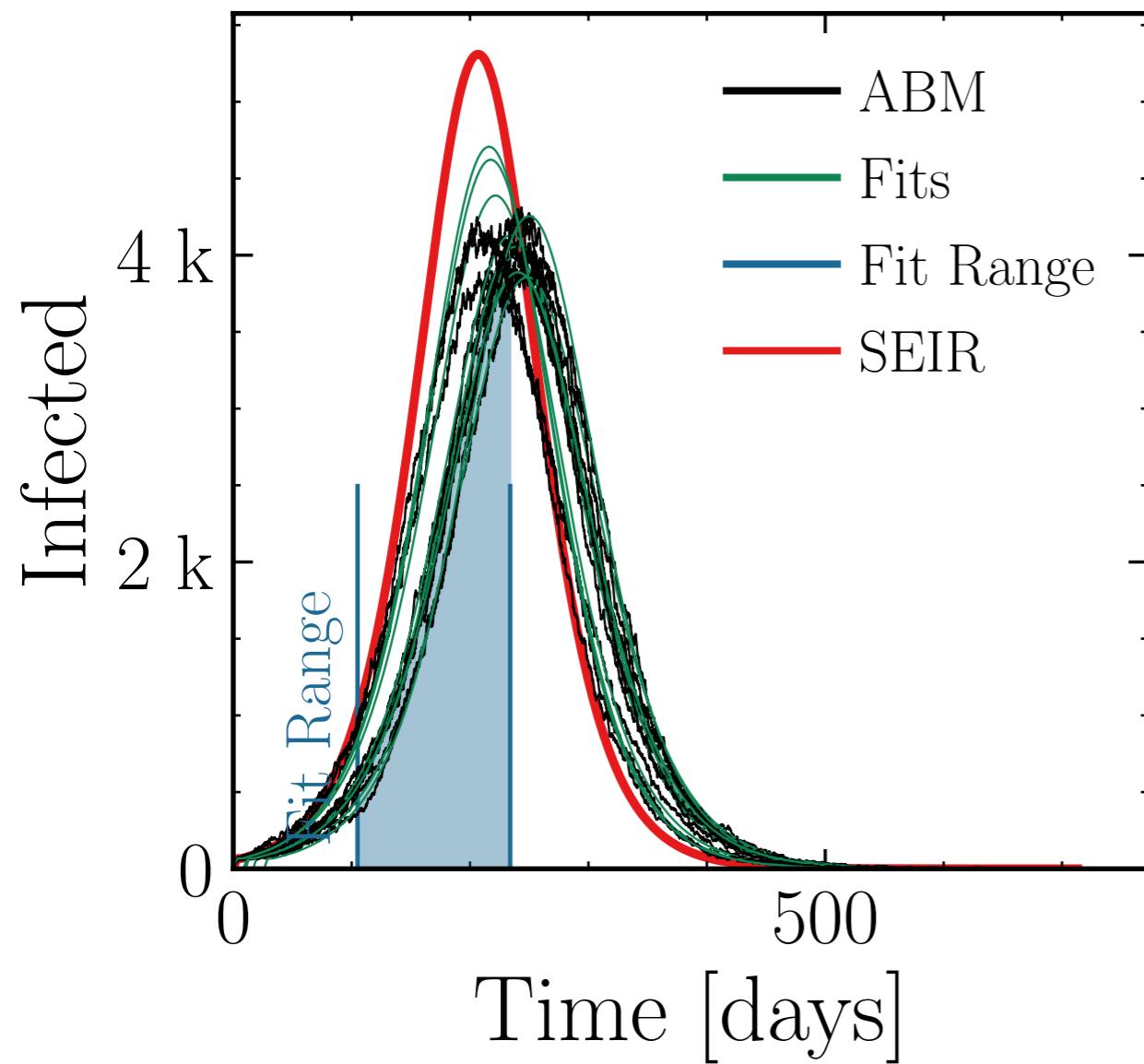
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (4.18 \pm 2.2\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (163 \pm 1.0\%) \cdot 10^3$$

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



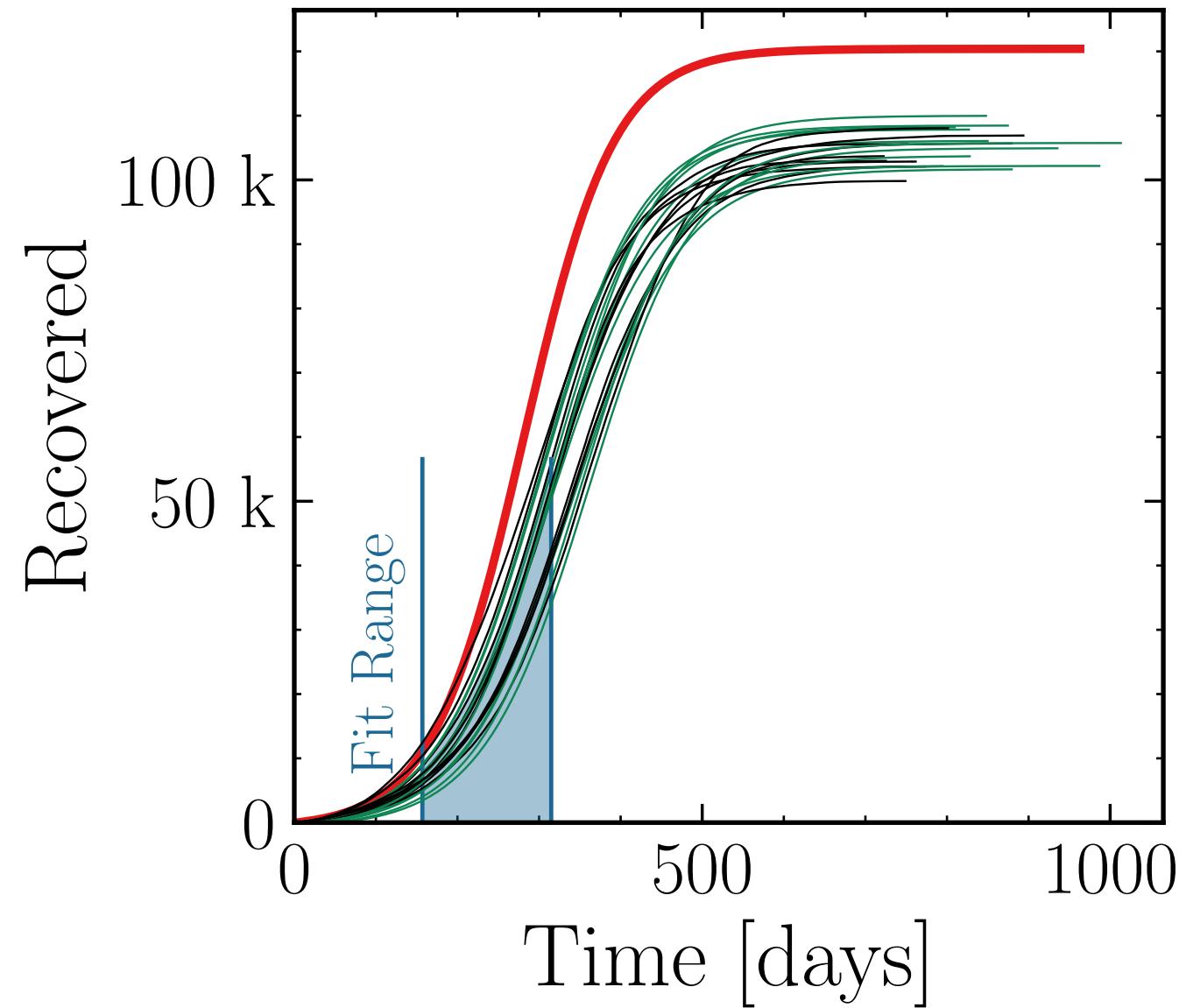
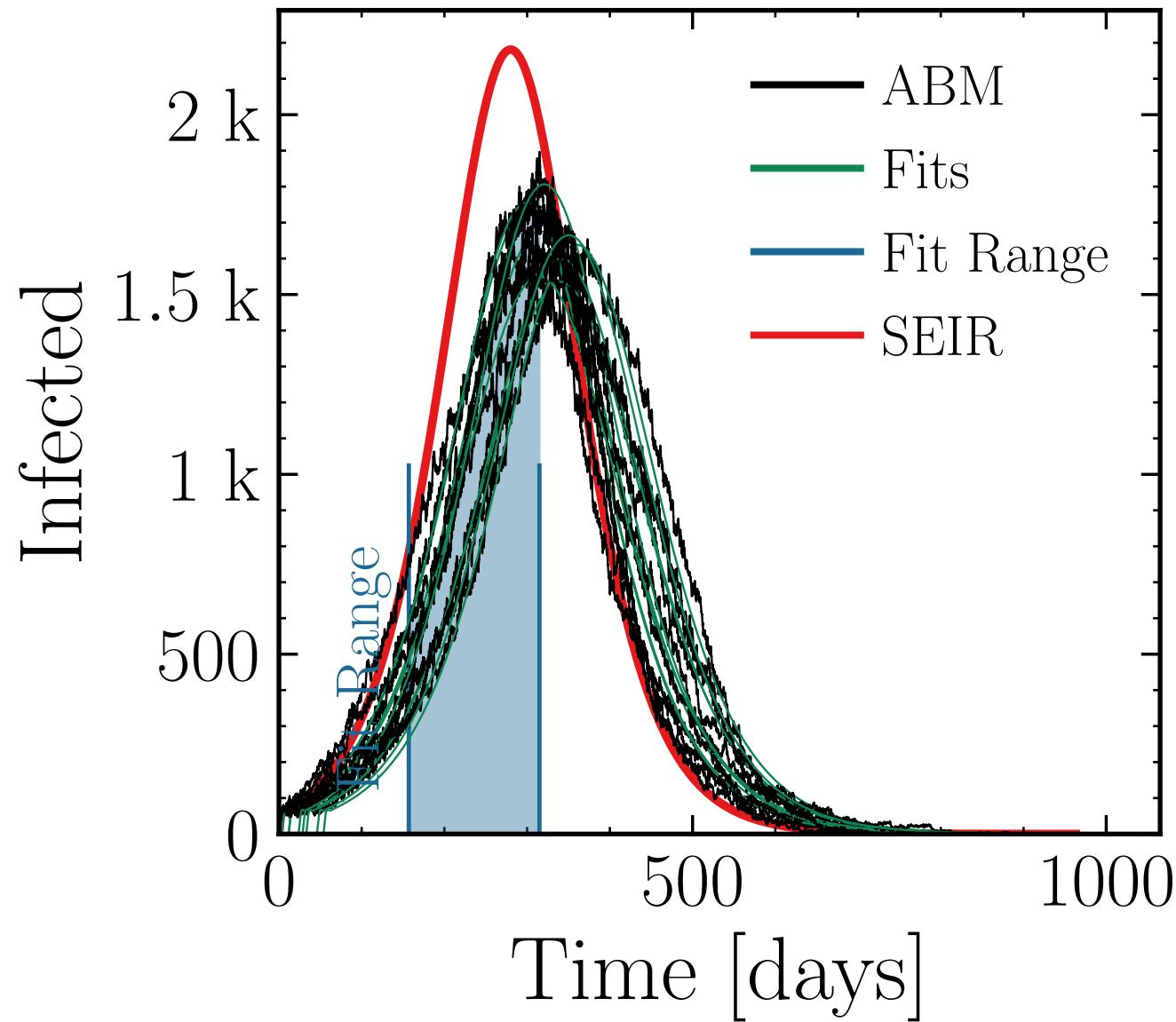
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.007$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (1.67 \pm 1.6\%) \cdot 10^3$$

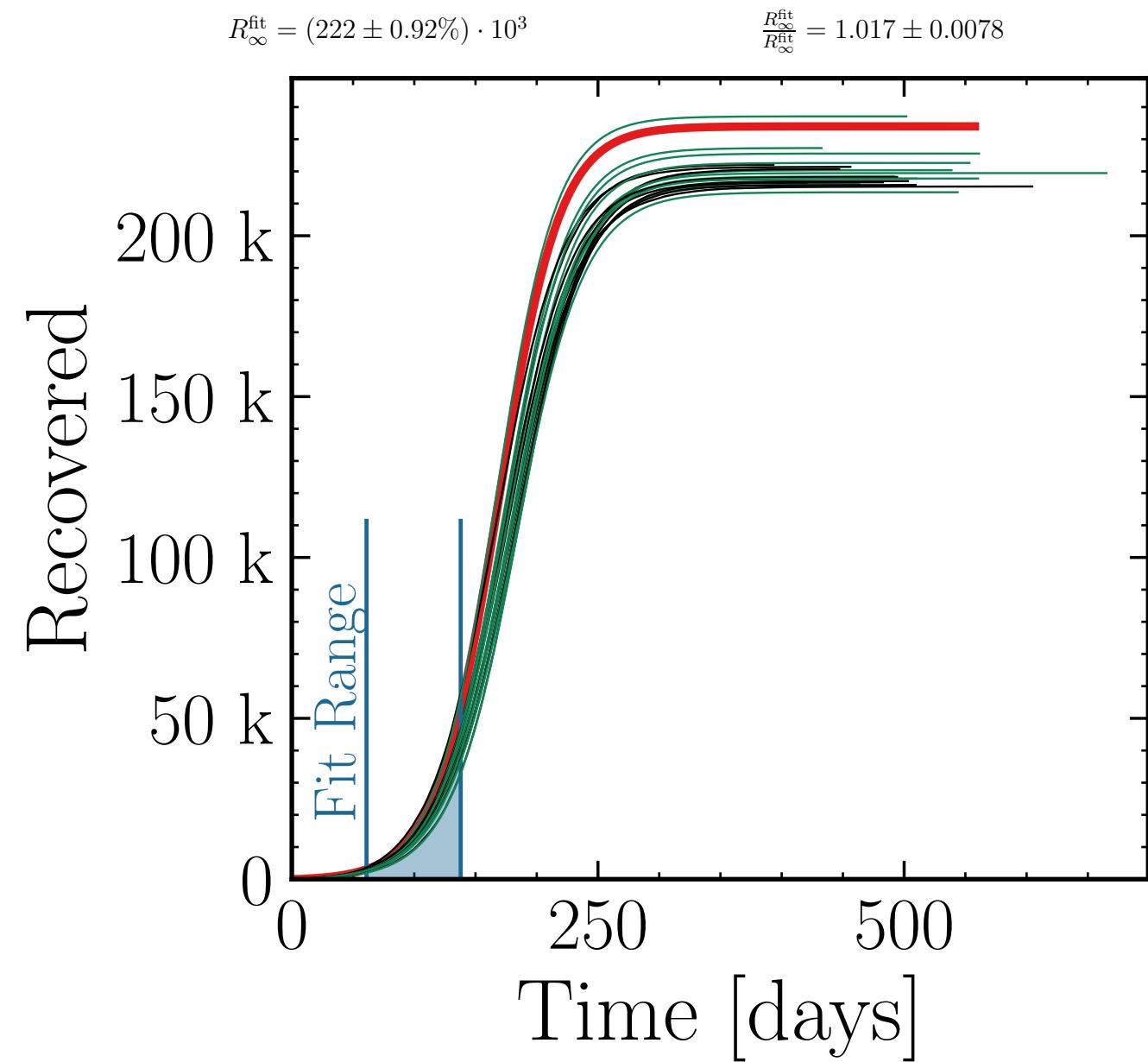
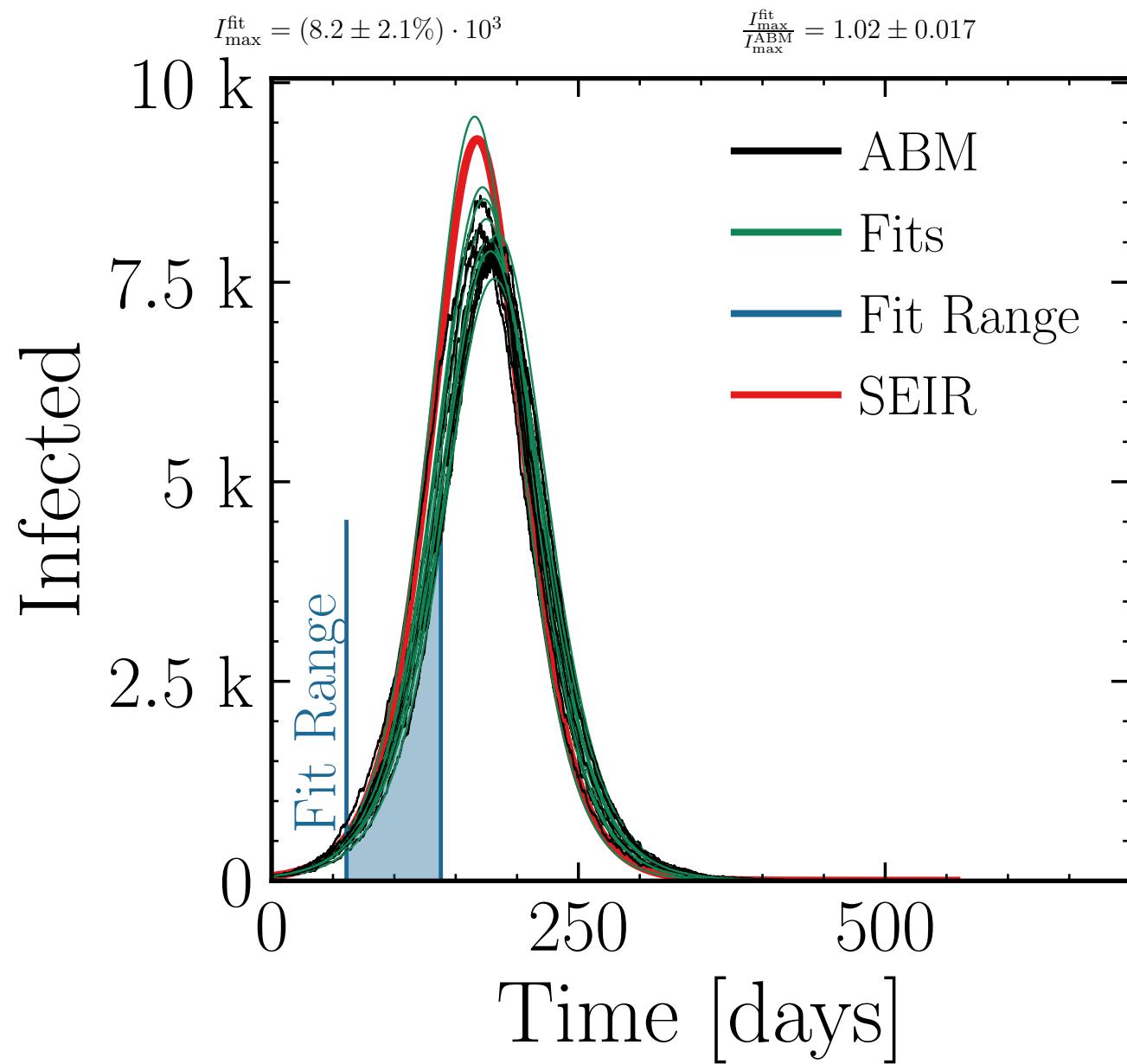
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.97 \pm 0.02$$

$$R_{\infty}^{\text{fit}} = (105.9 \pm 0.79\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{true}}} = 1.02 \pm 0.013$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.008$ ,  $\sigma_\beta = 0.0$ , 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



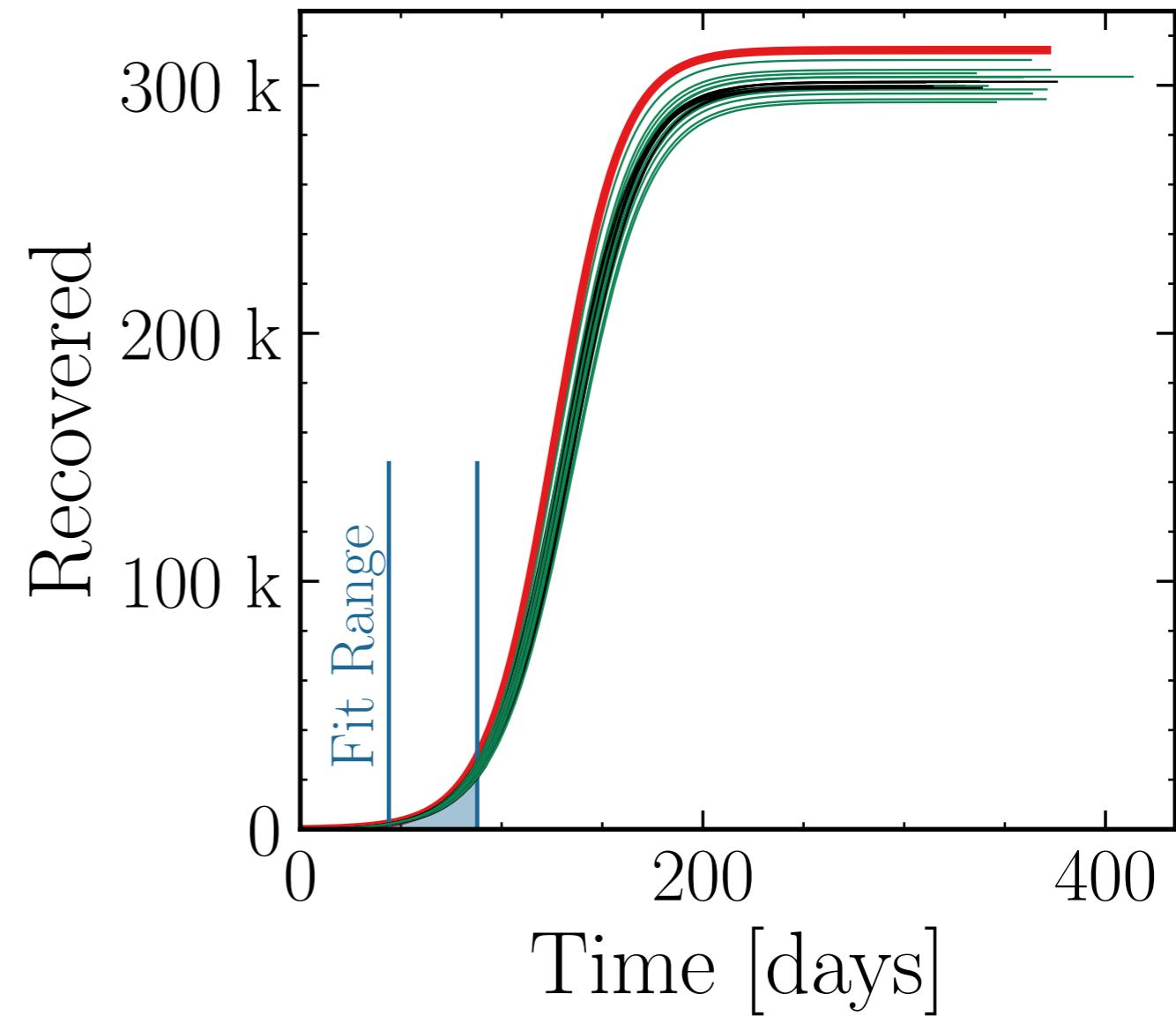
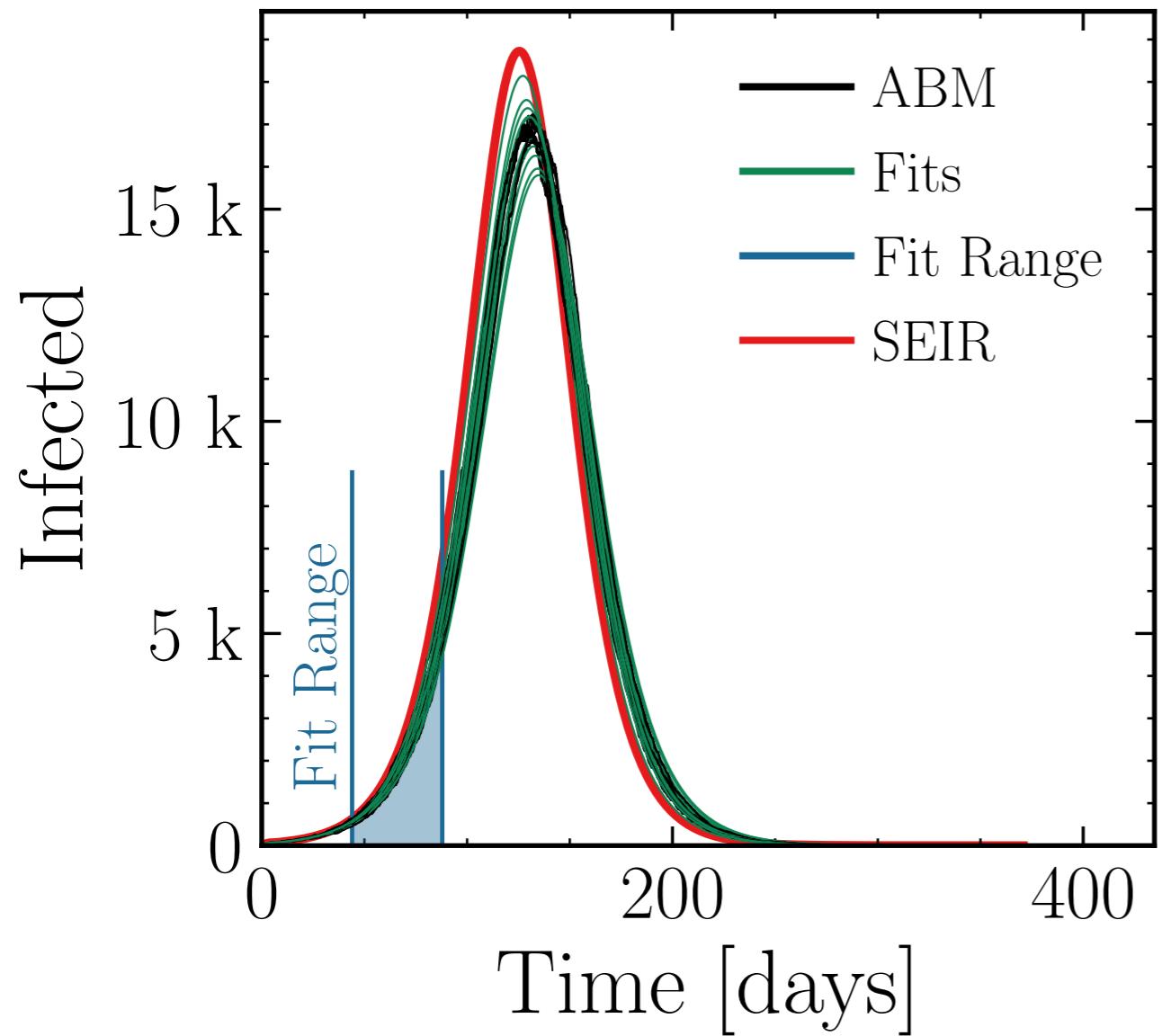
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.009$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (16.9 \pm 1.3\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (301 \pm 0.55\%) \cdot 10^3$$

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



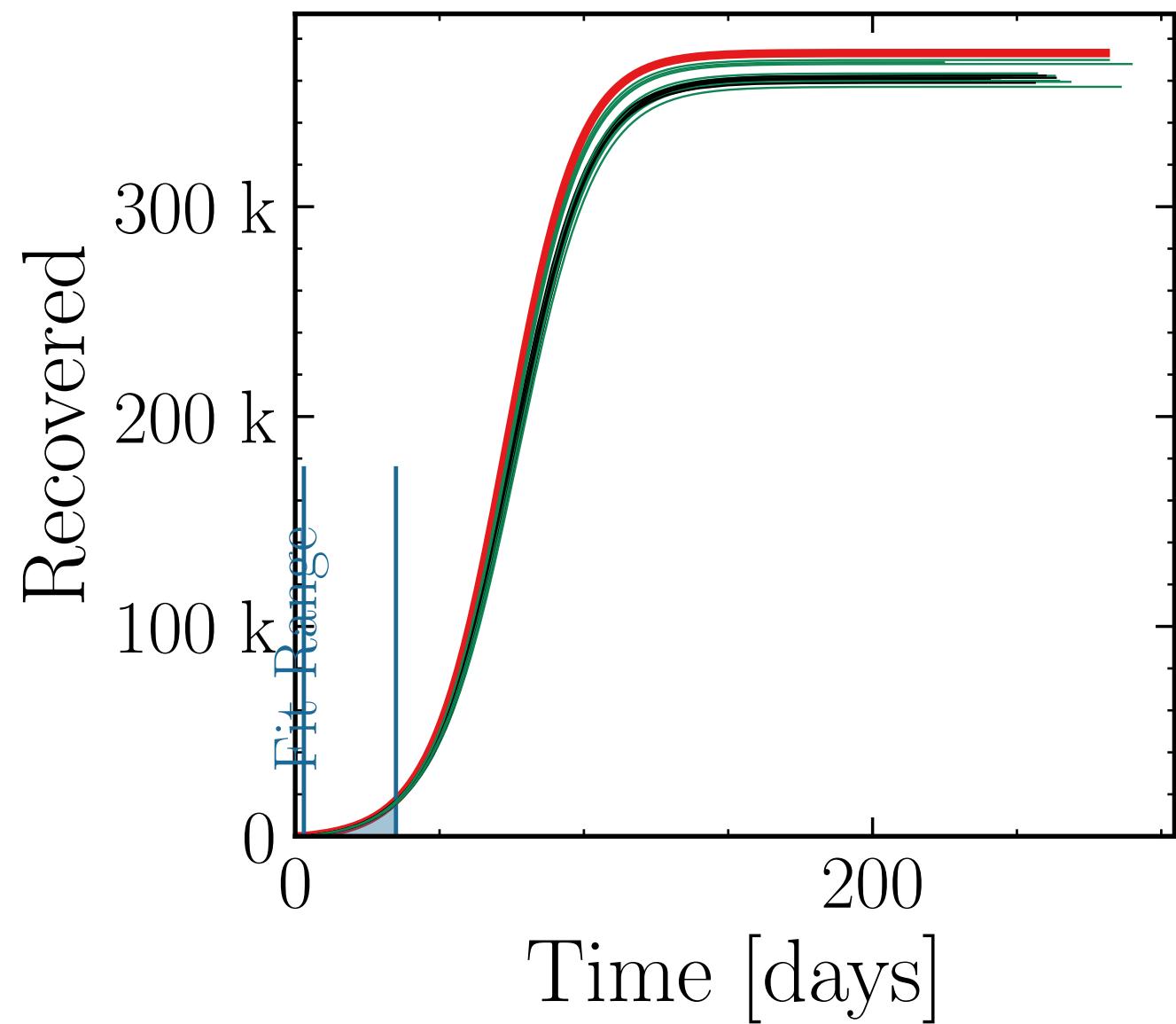
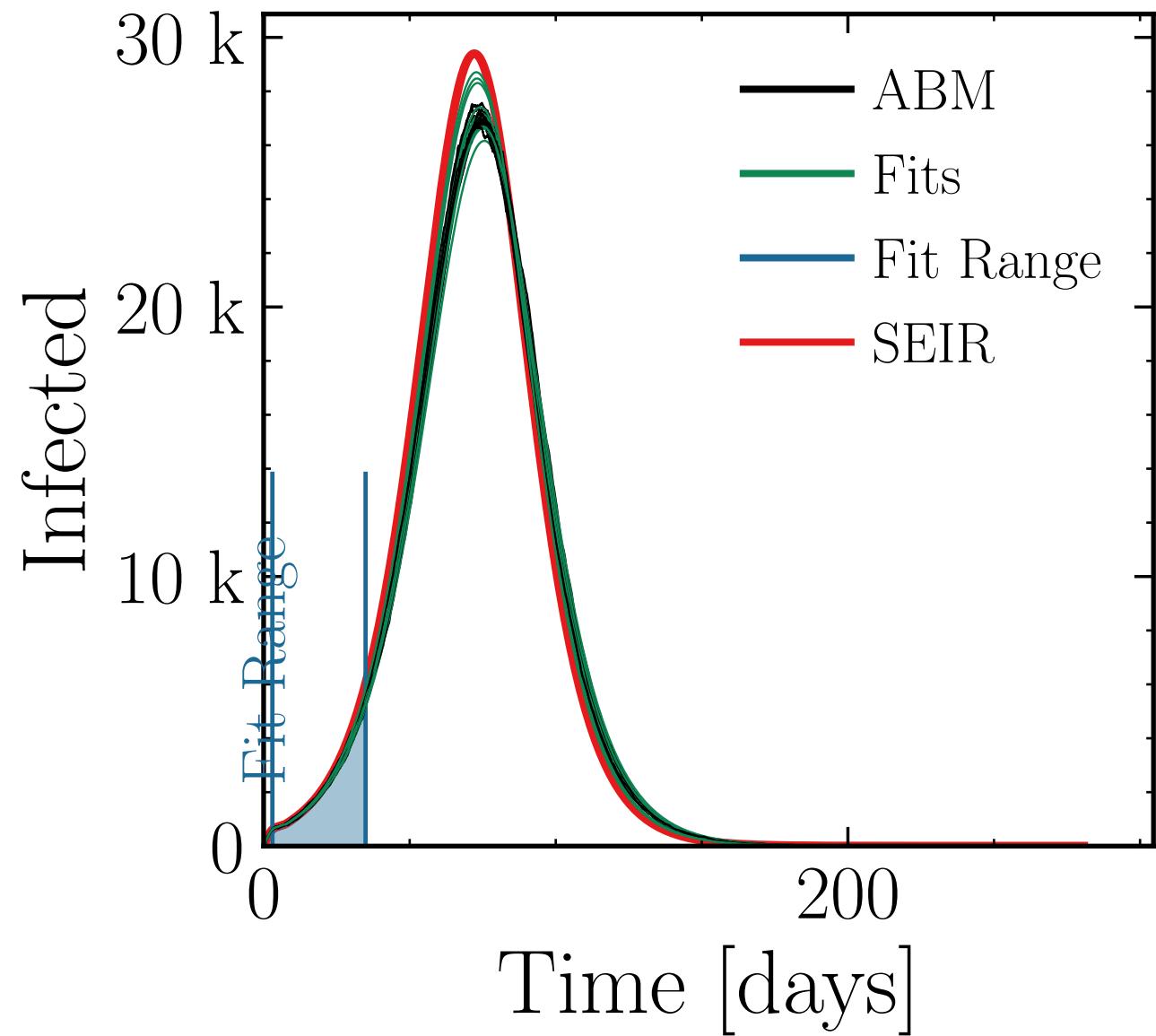
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 1K$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (27.3 \pm 0.96\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (363 \pm 0.36\%) \cdot 10^3$$

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



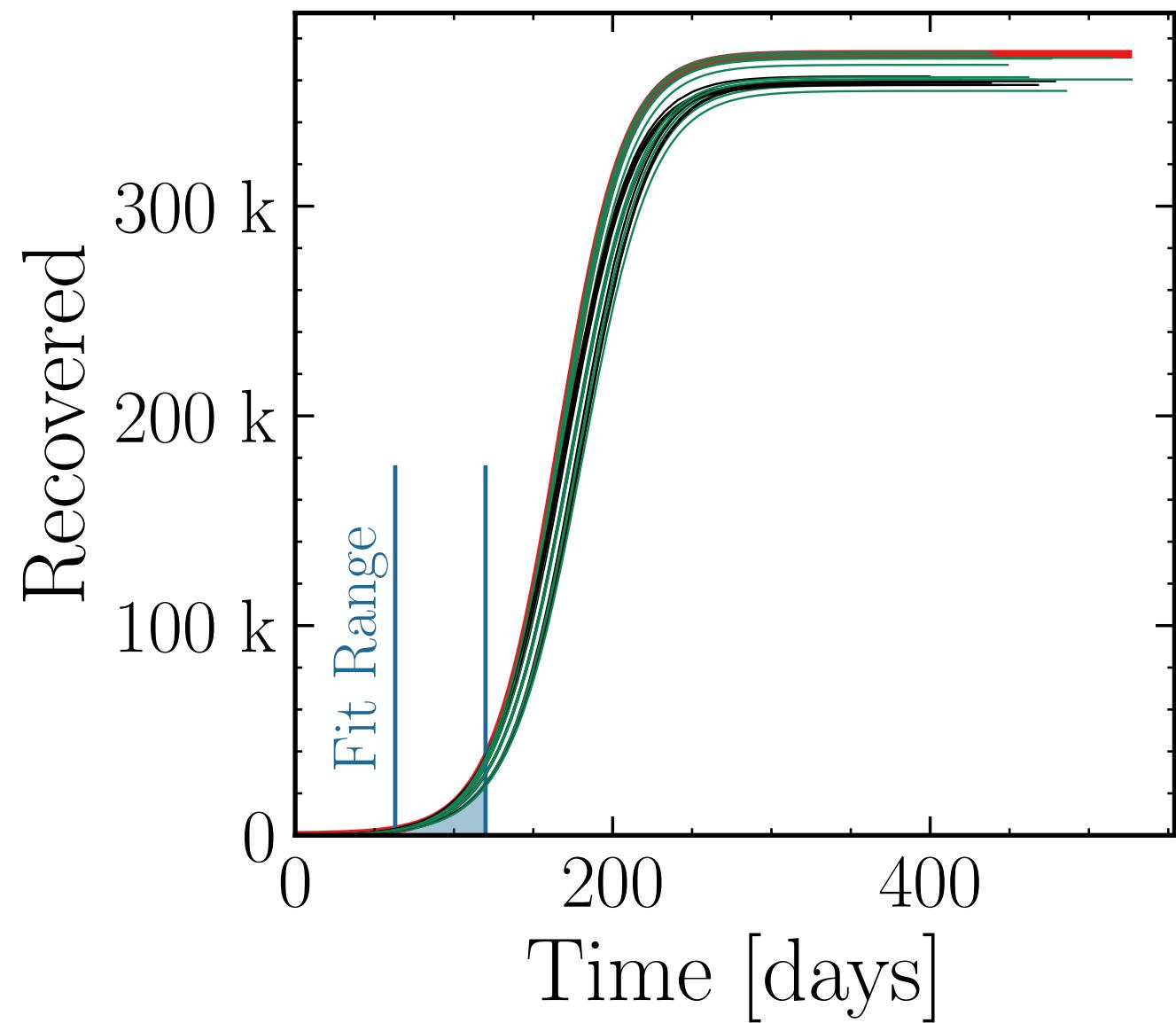
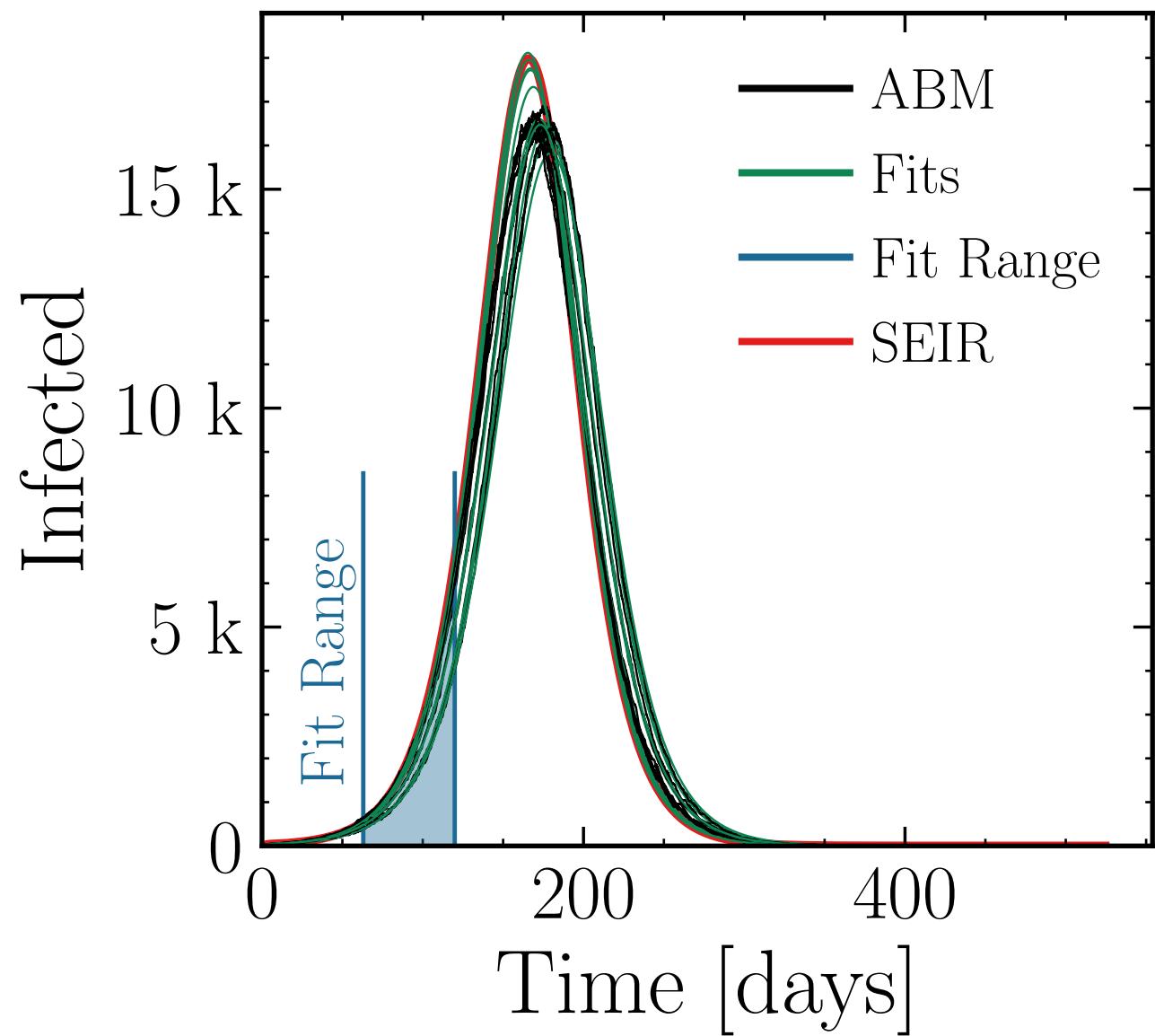
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 0.5$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (17 \pm 1.5\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (365 \pm 0.55\%) \cdot 10^3$$

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



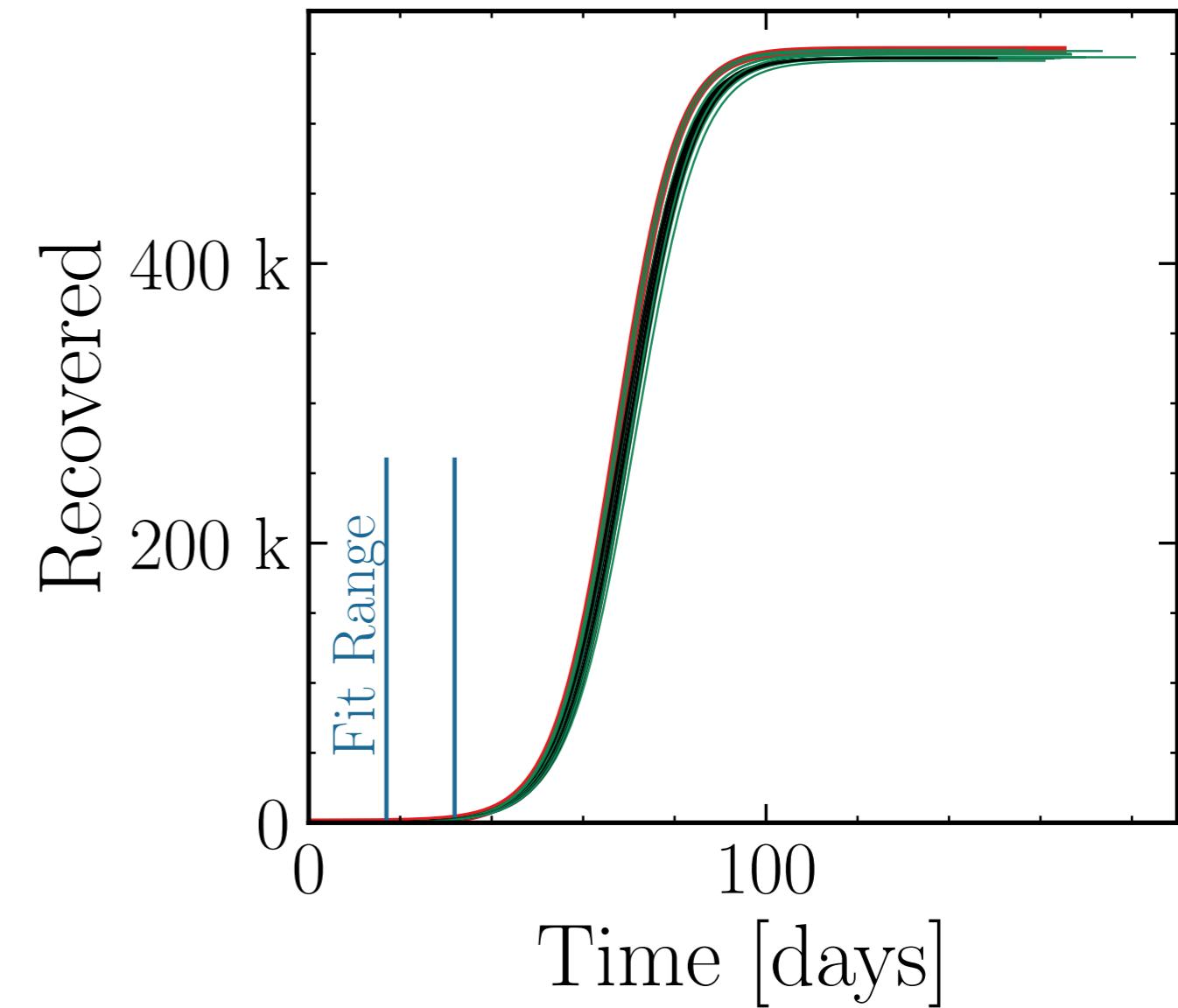
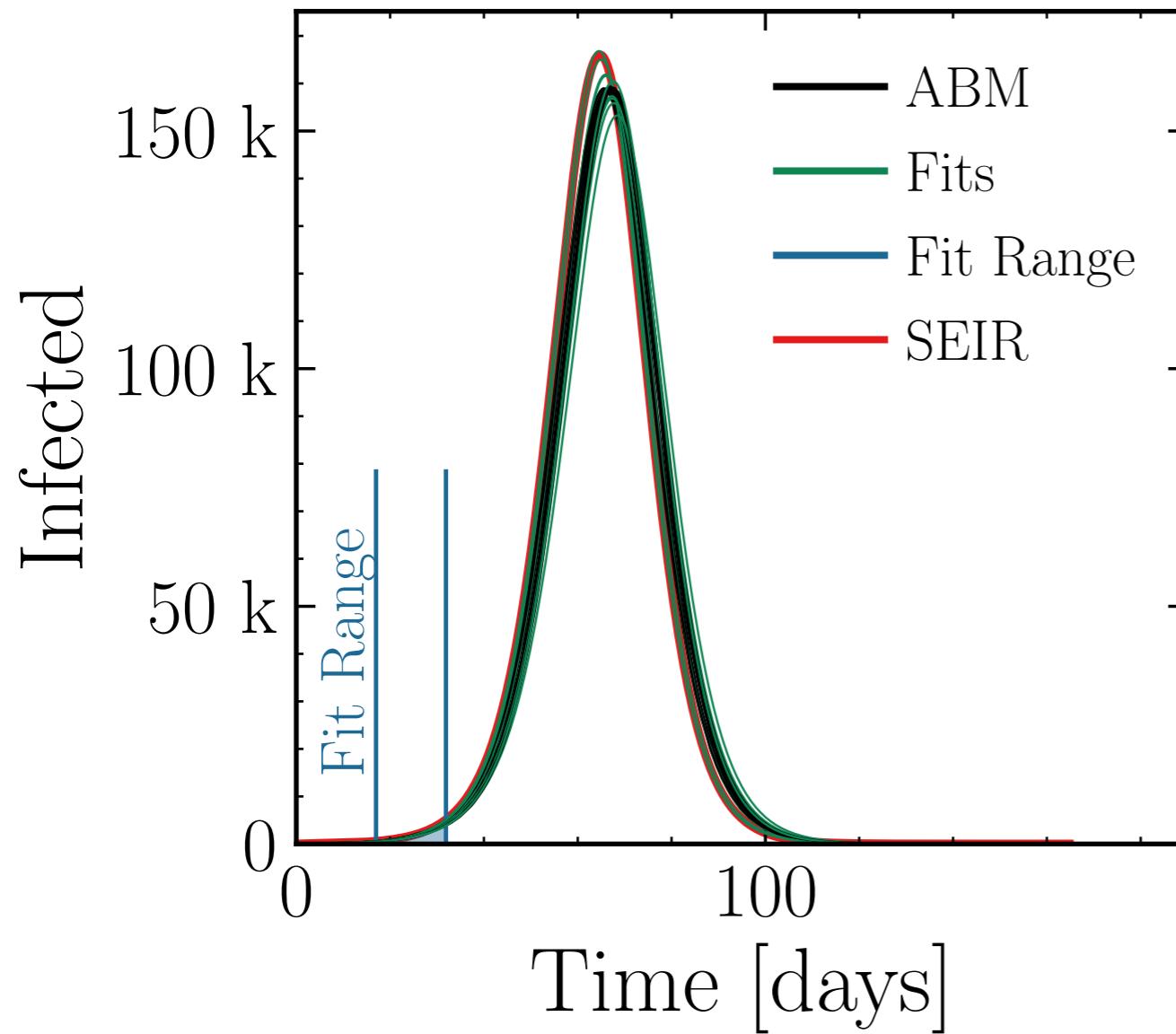
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 0.5$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (160 \pm 0.8\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 1.004 \pm 0.0082$$

$$R_{\infty}^{\text{fit}} = (548.9 \pm 0.14\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.003 \pm 0.0014$$



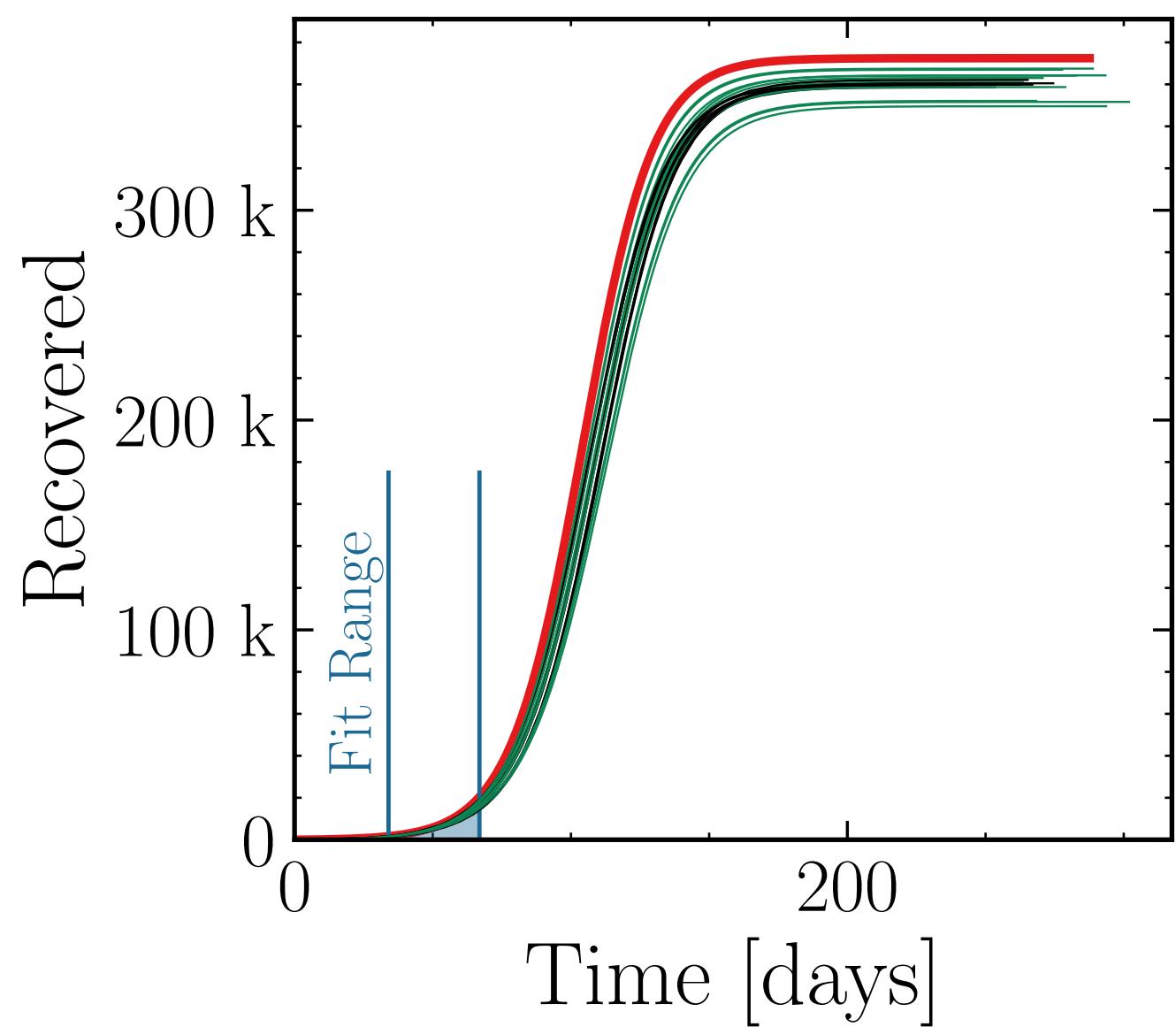
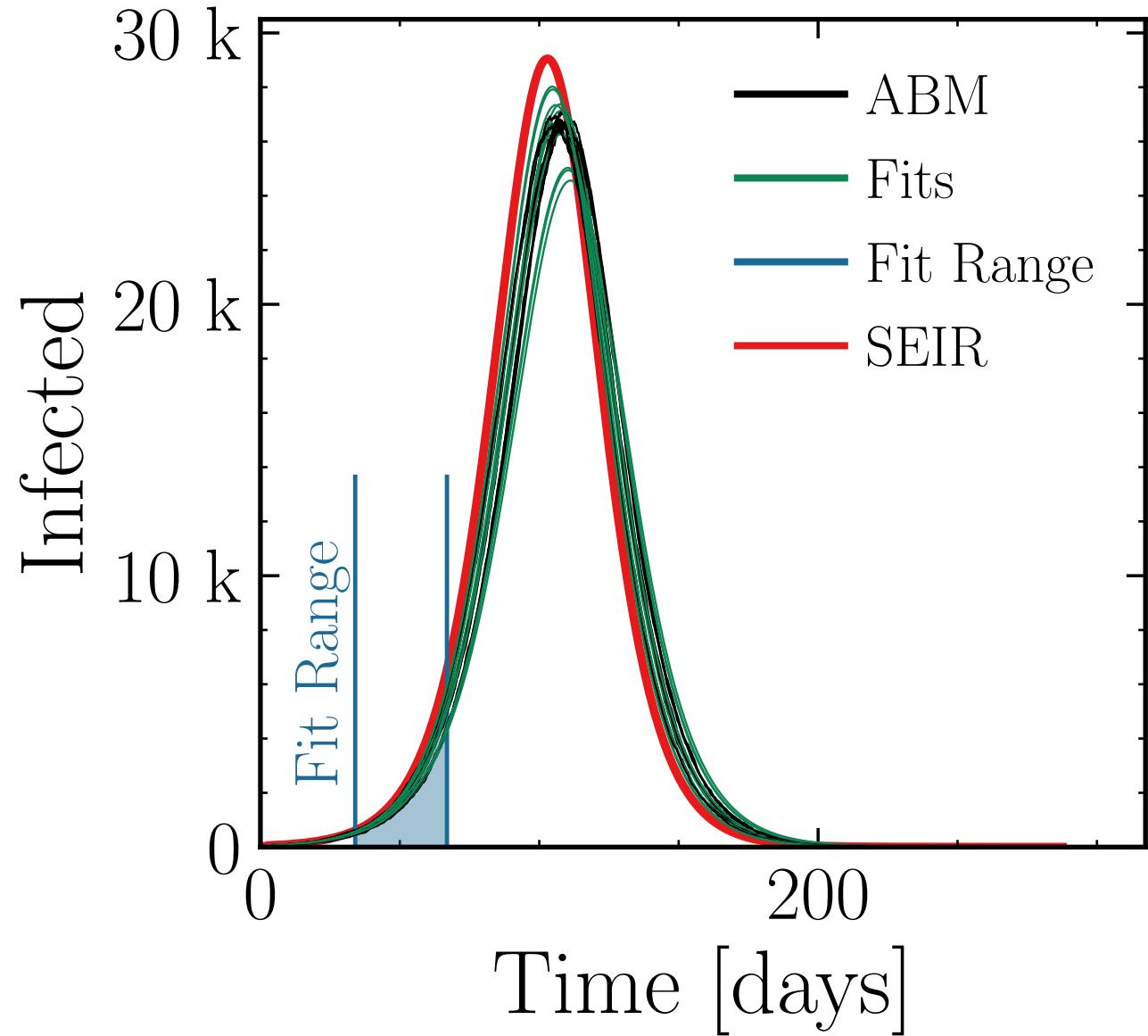
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (26.5 \pm 1.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (360 \pm 0.55\%) \cdot 10^3$$

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



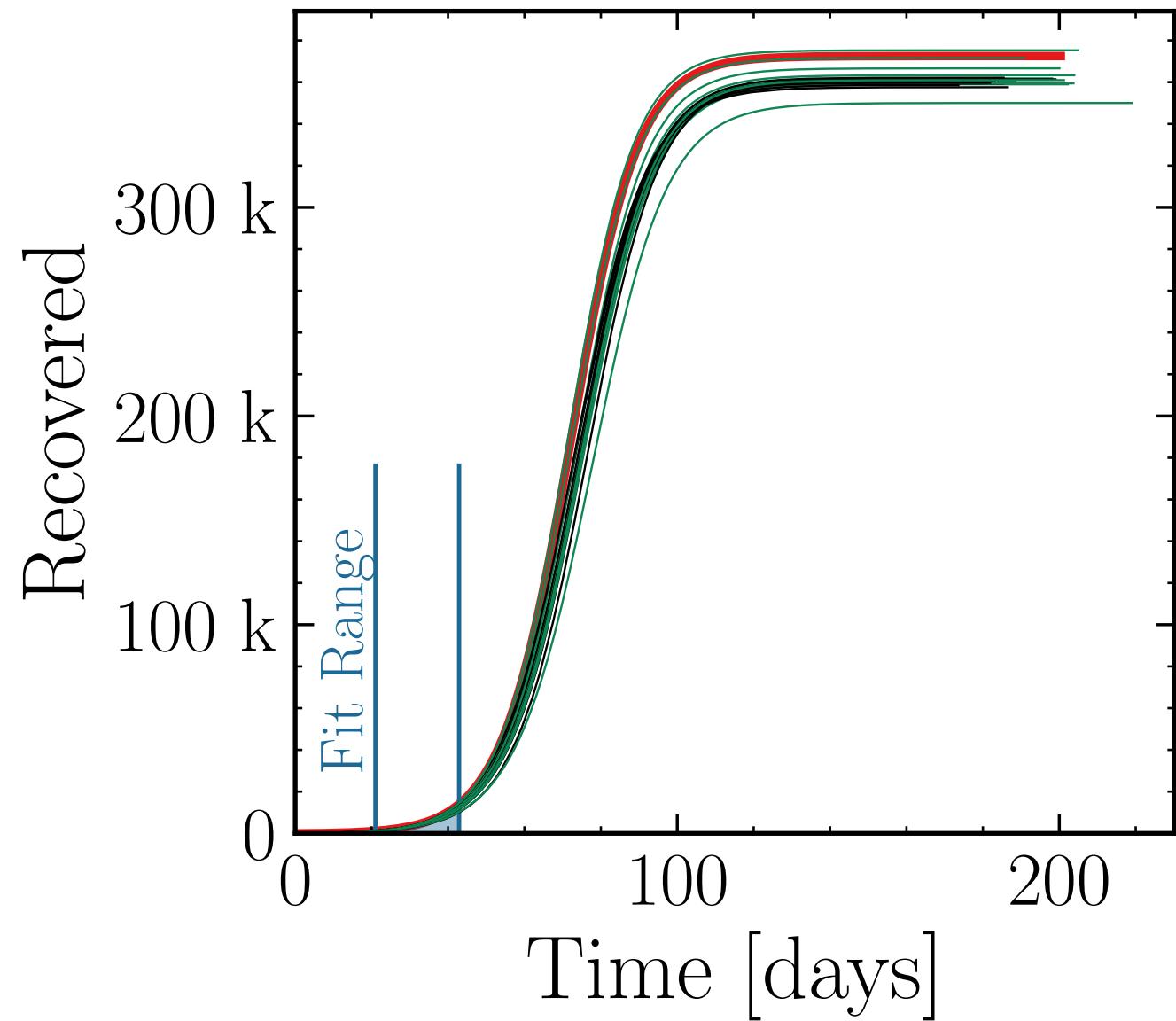
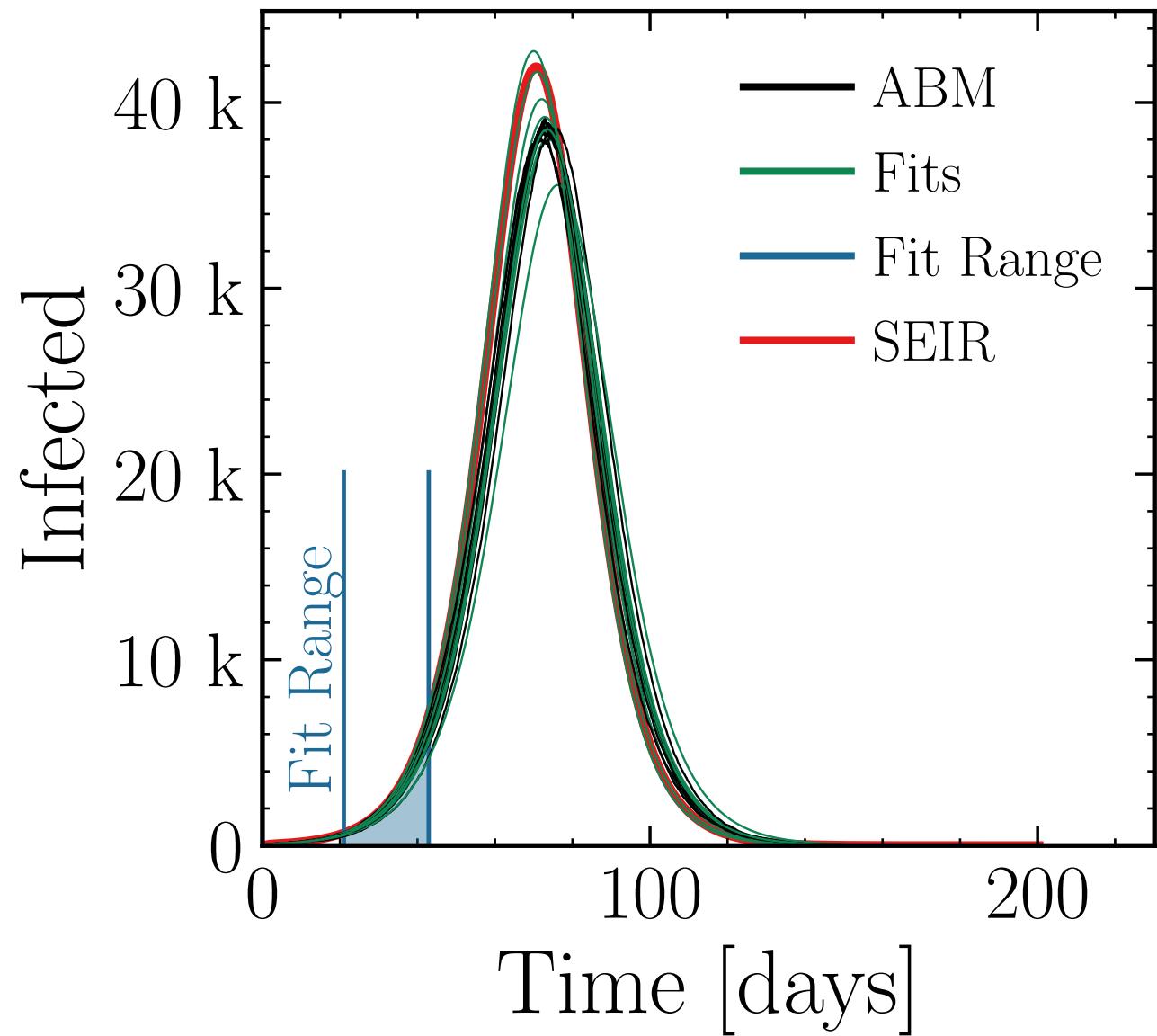
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 2.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (39.1 \pm 1.5\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (363 \pm 0.58\%) \cdot 10^3$$

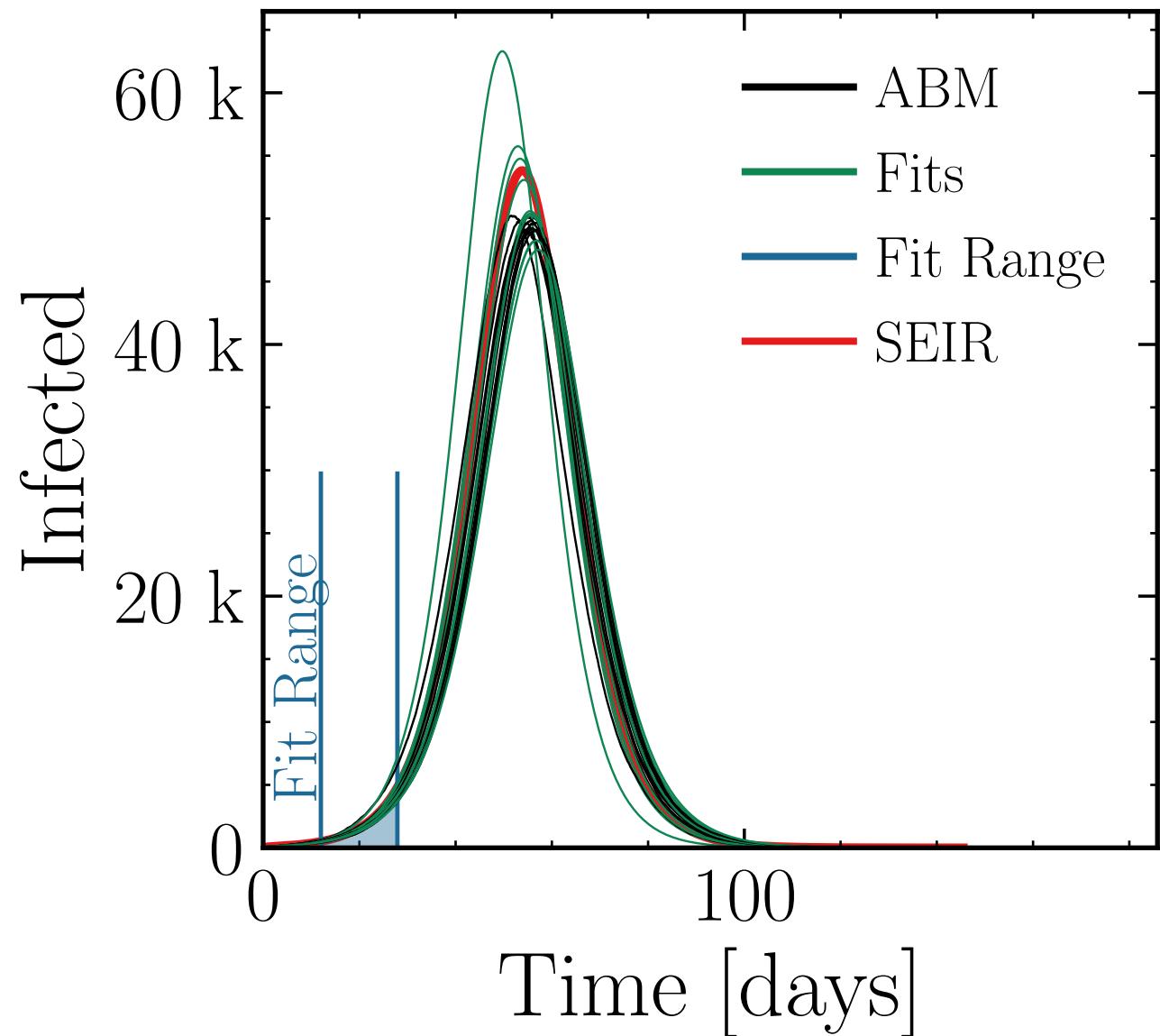
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.008 \pm 0.0067$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

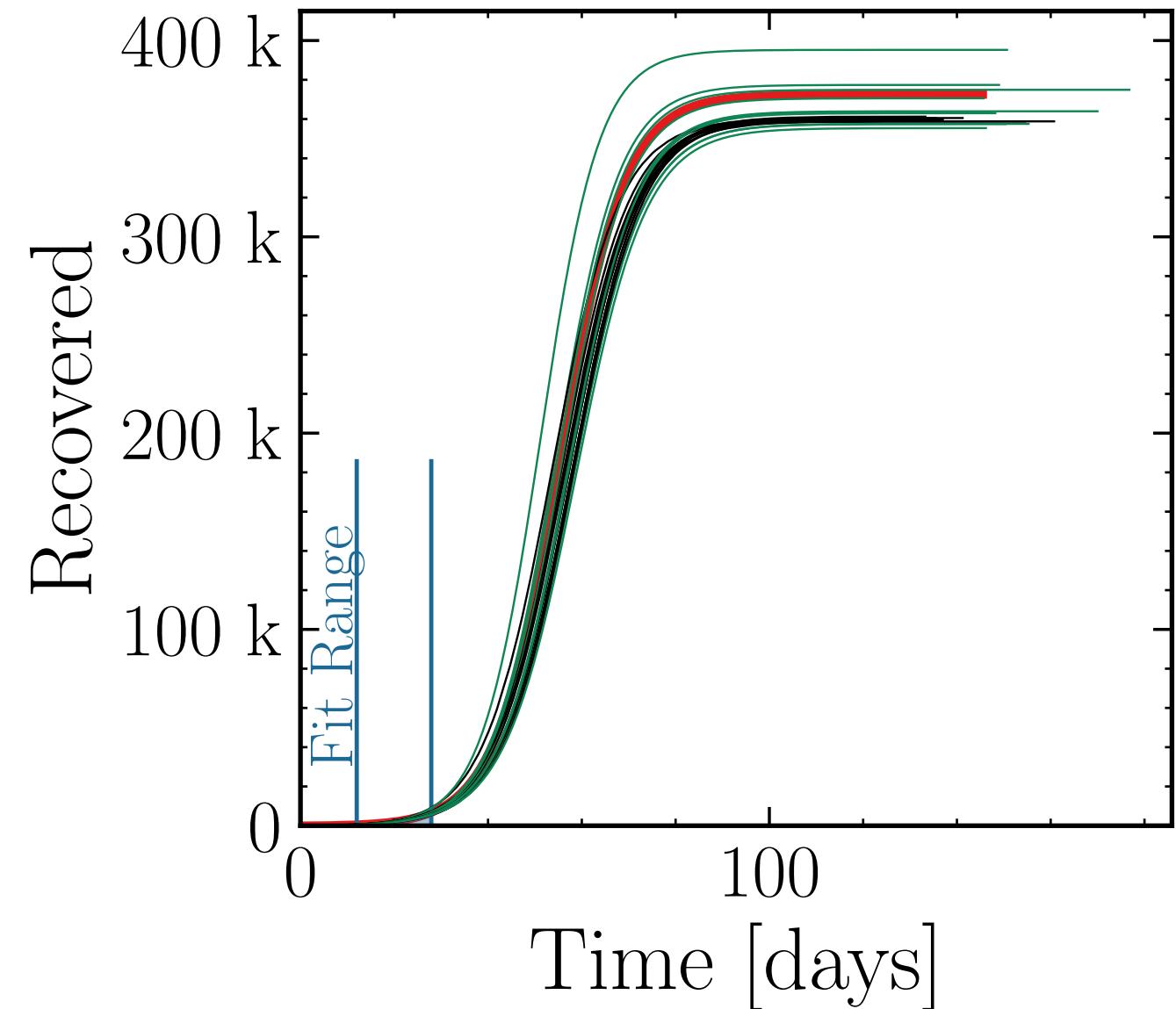
$$I_{\text{max}}^{\text{fit}} = (52 \pm 2.7\%) \cdot 10^3$$

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



$$R_{\infty}^{\text{fit}} = (368 \pm 0.99\%) \cdot 10^3$$

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



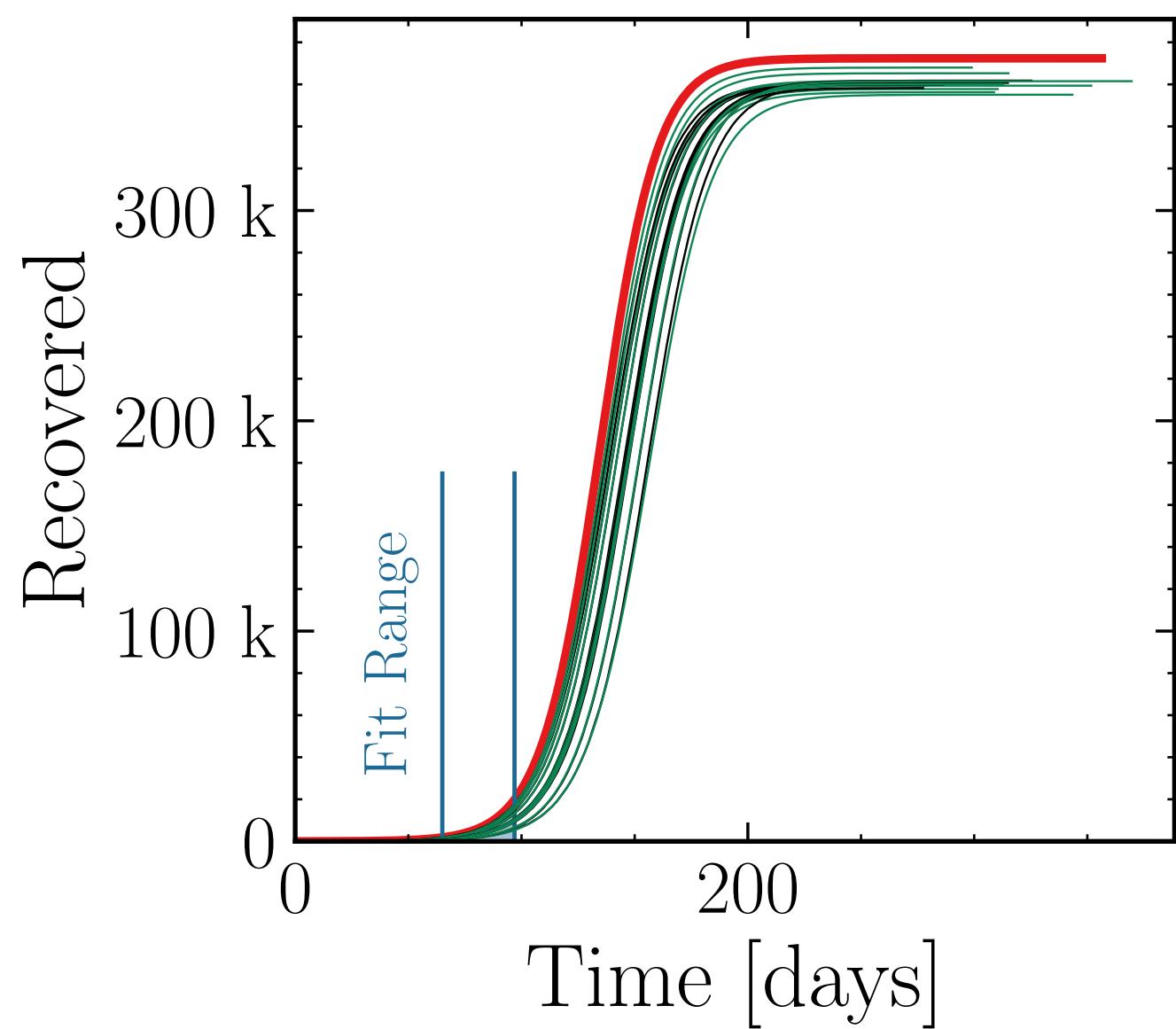
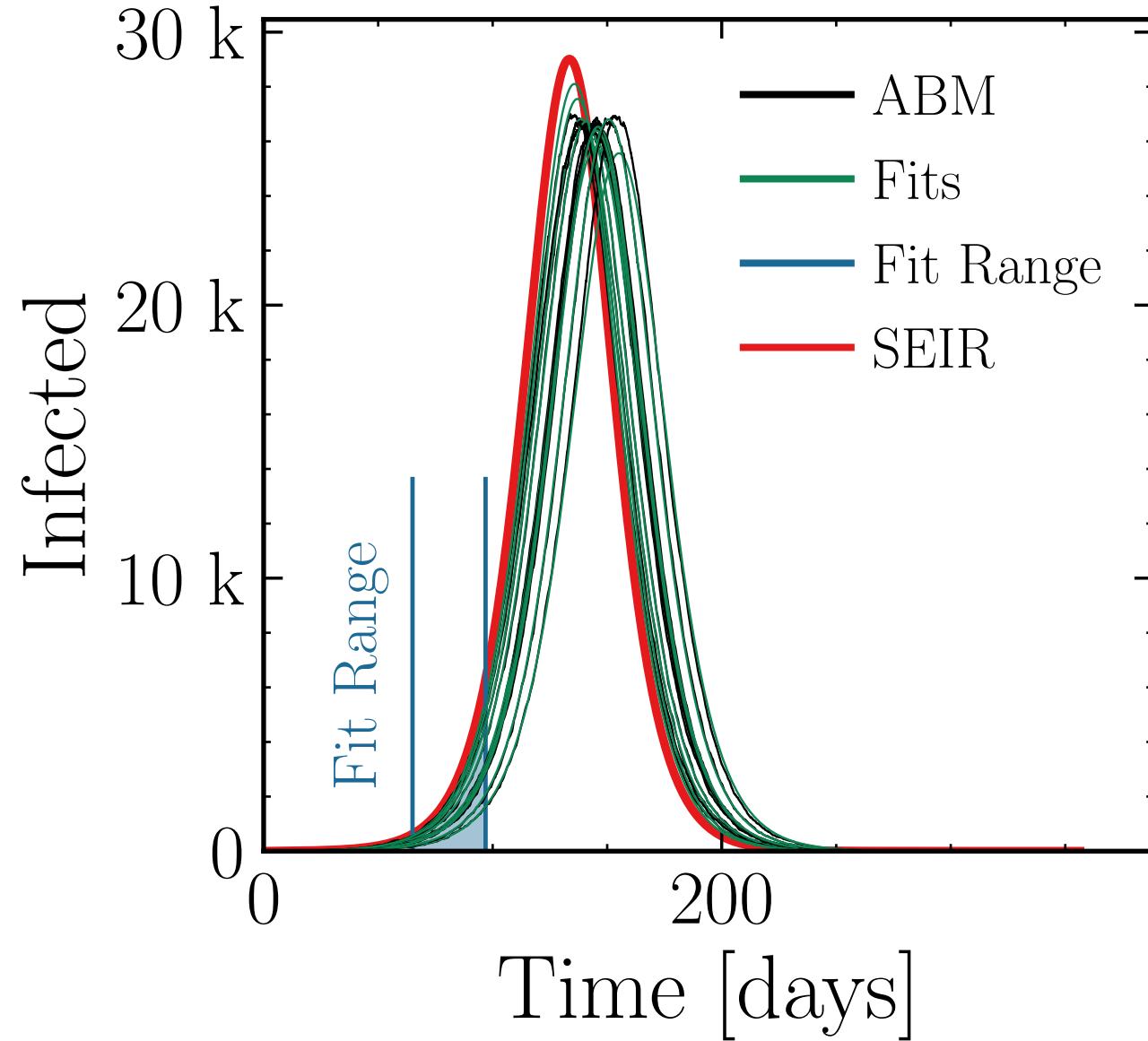
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 10$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (26.6 \pm 0.86\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.996 \pm 0.008$$

$$R_{\infty}^{\text{fit}} = (361 \pm 0.34\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.001 \pm 0.0031$$



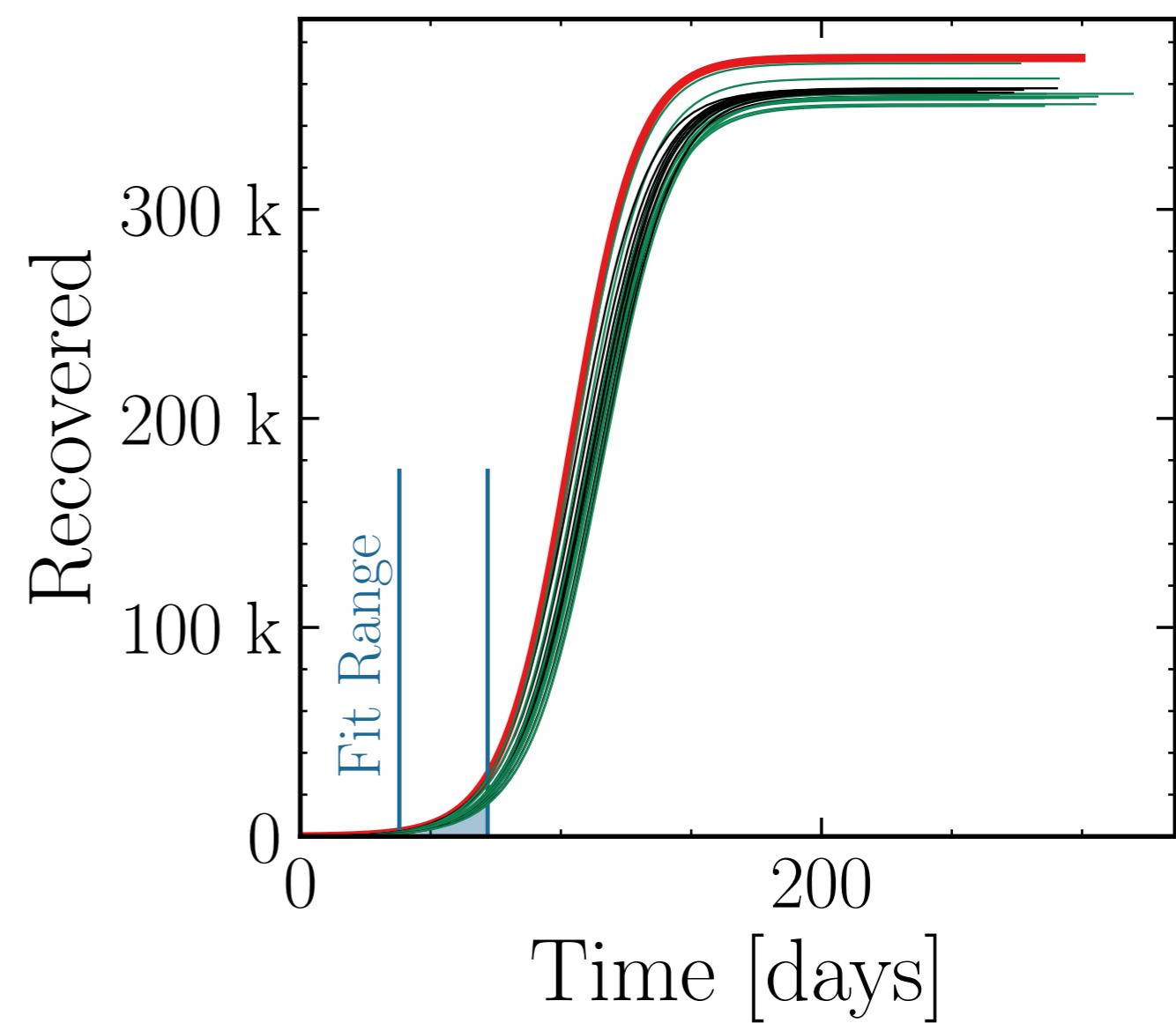
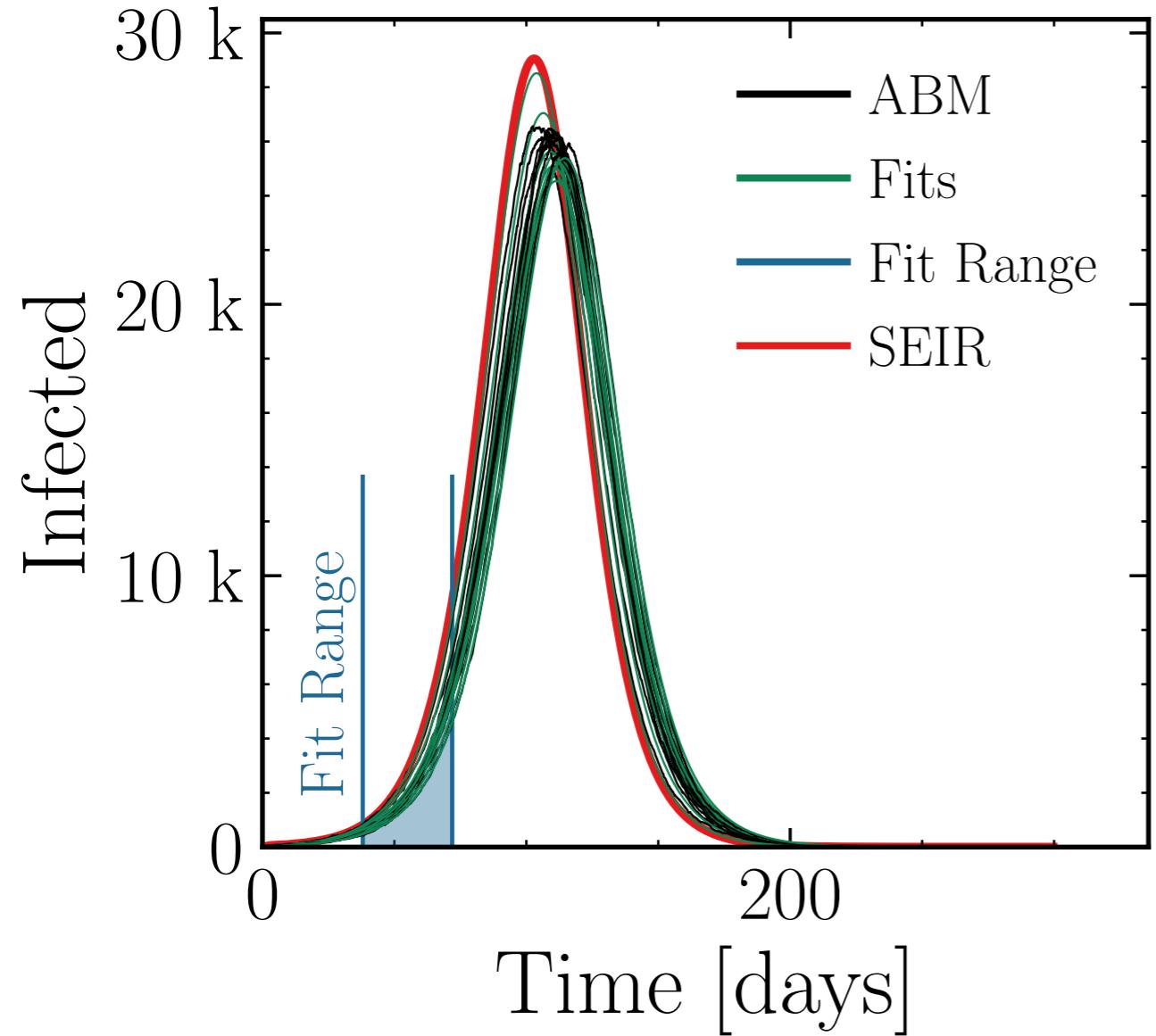
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (25.7 \pm 1.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (356 \pm 0.53\%) \cdot 10^3$$

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



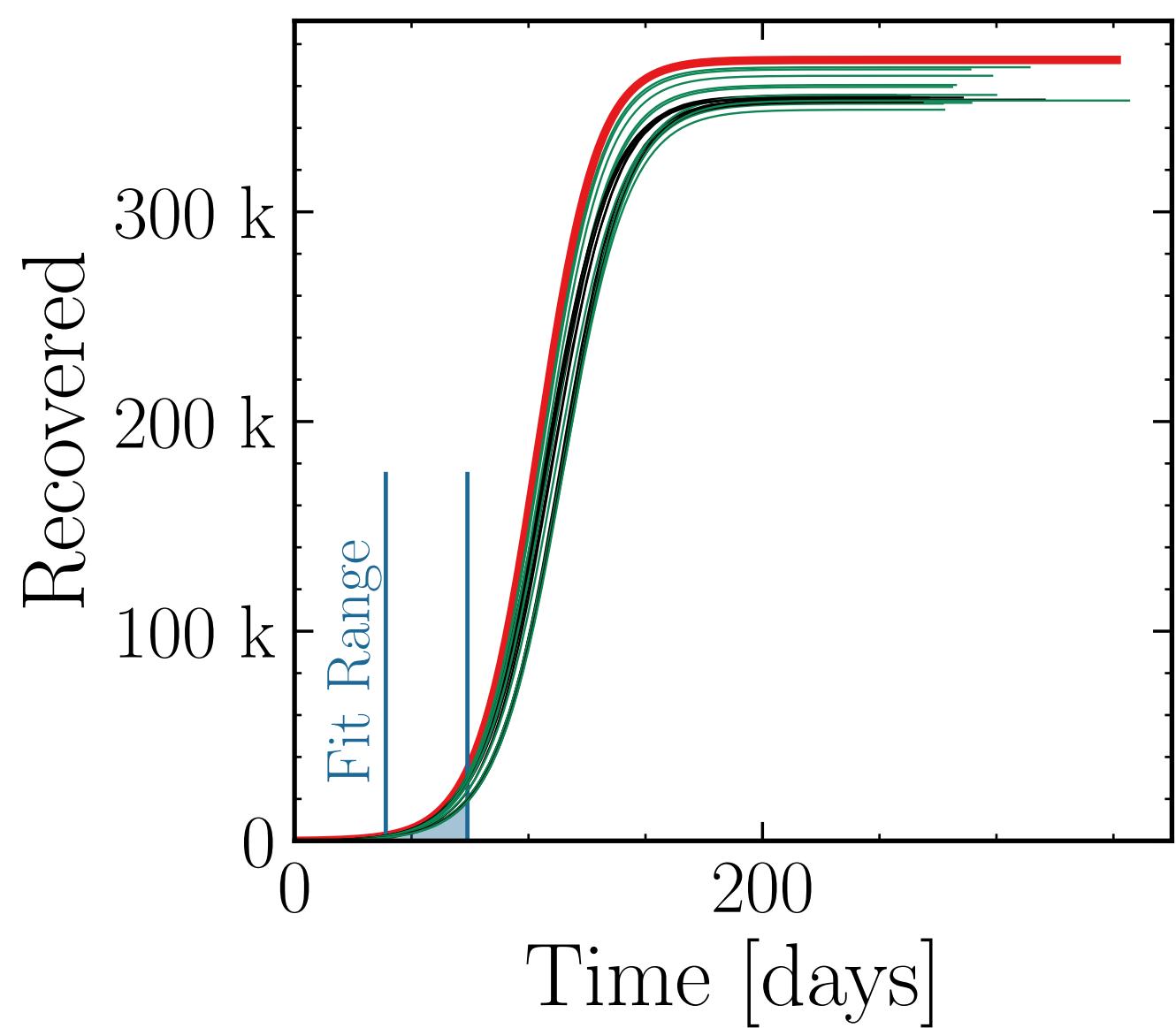
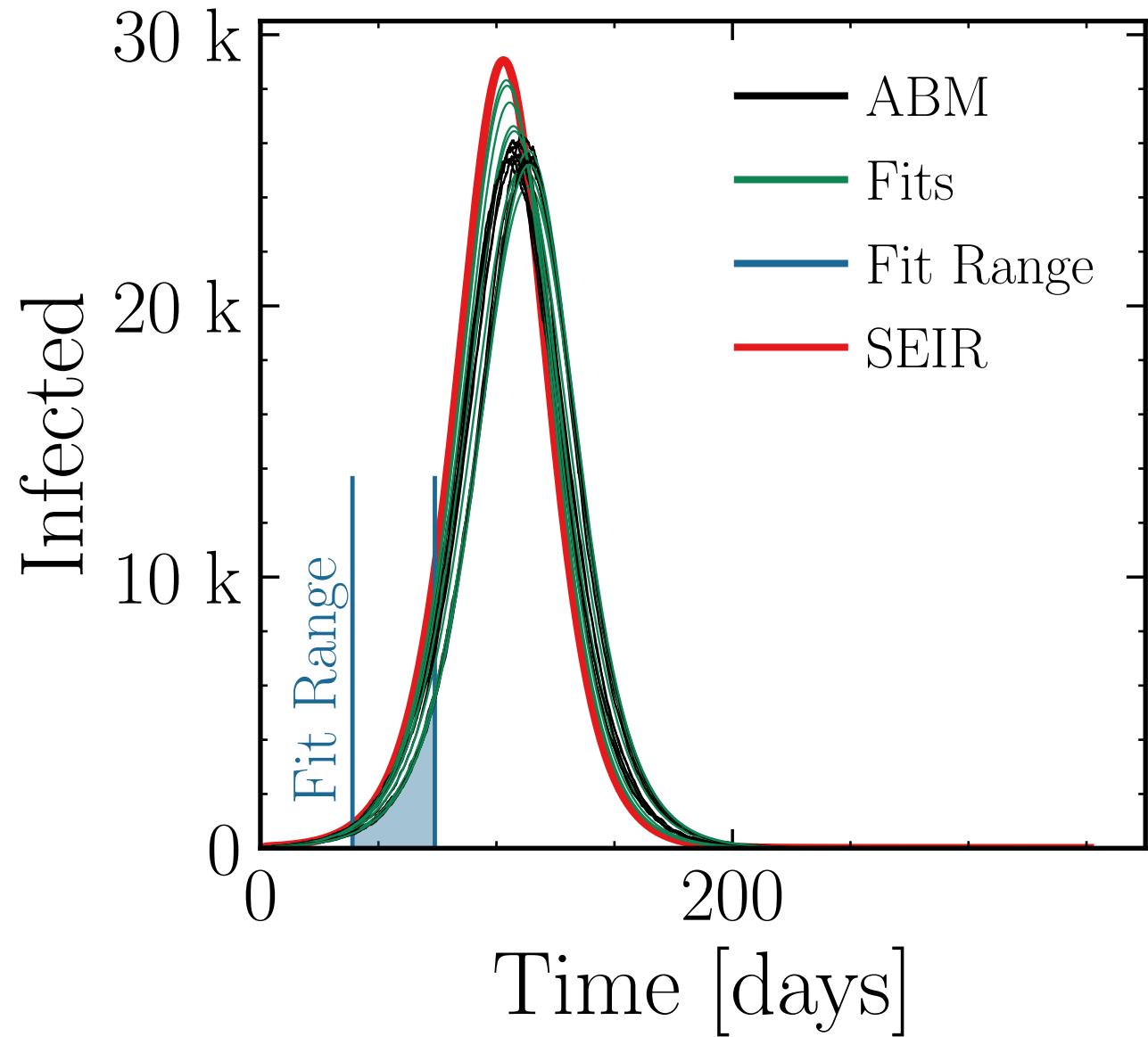
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (26.2 \pm 1.6\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (358 \pm 0.6\%) \cdot 10^3$$

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



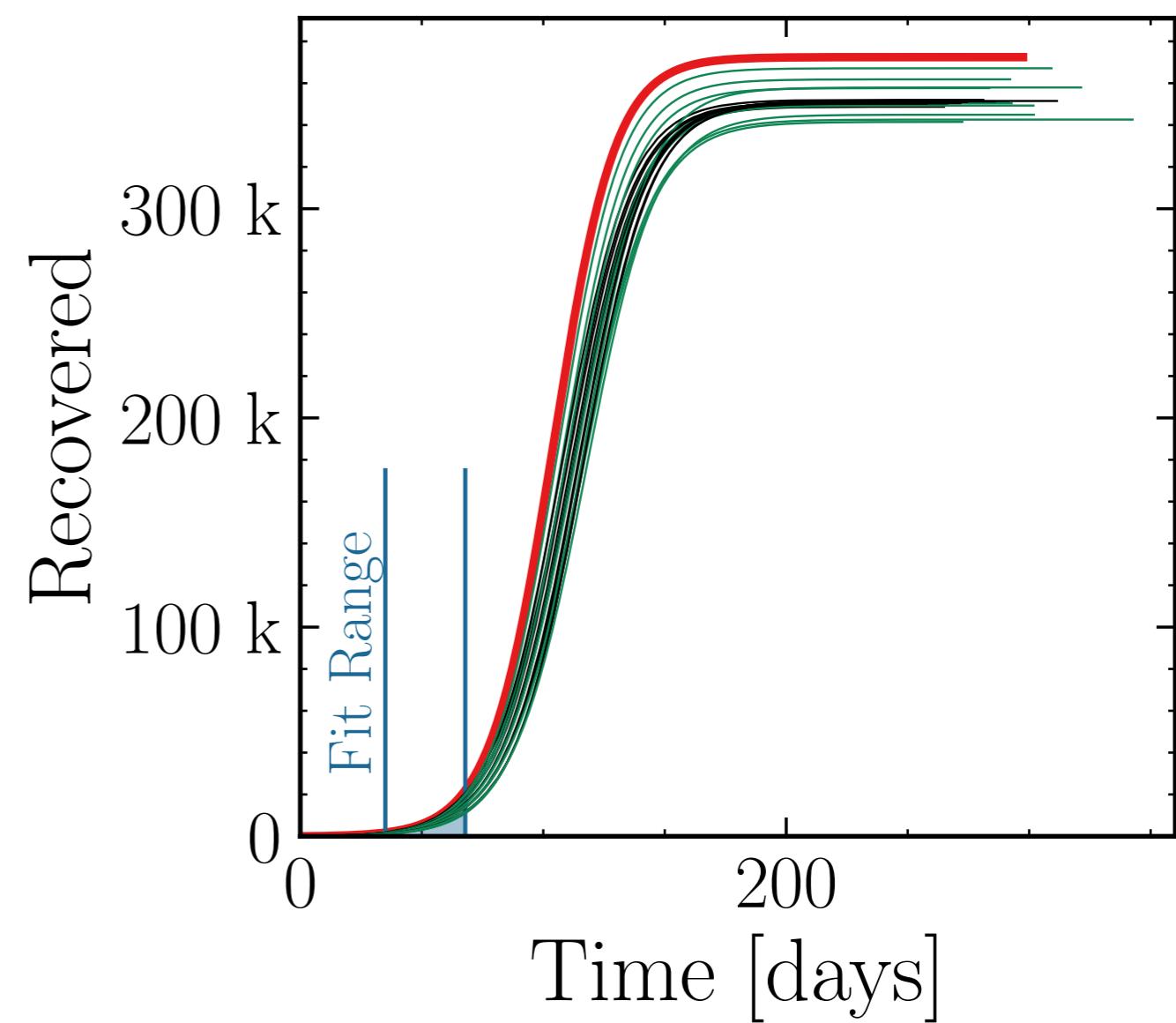
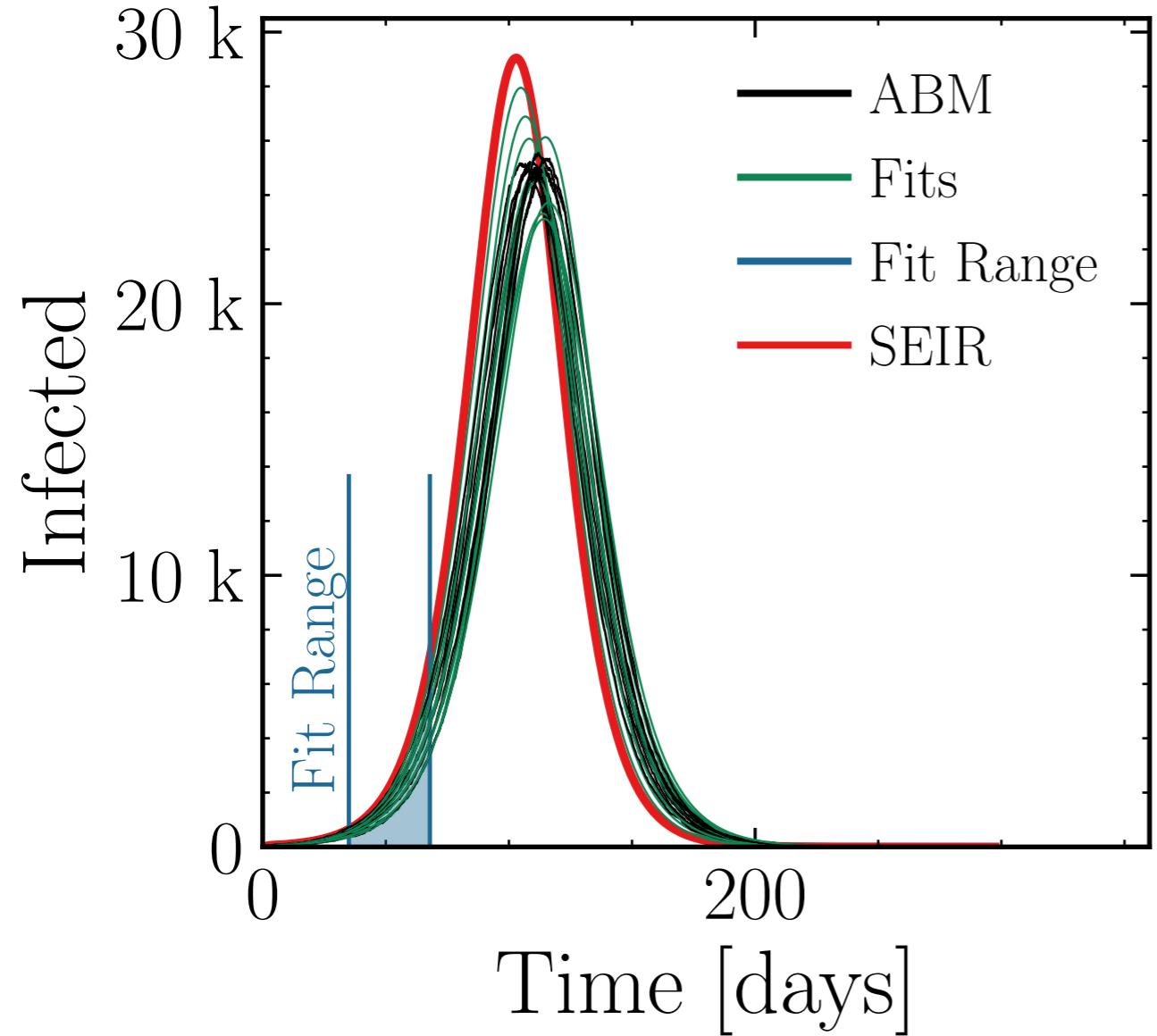
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (25.1 \pm 1.9\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1 \pm 0.020$$

$$R_{\infty}^{\text{fit}} = (352 \pm 0.73\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.005 \pm 0.0072$$



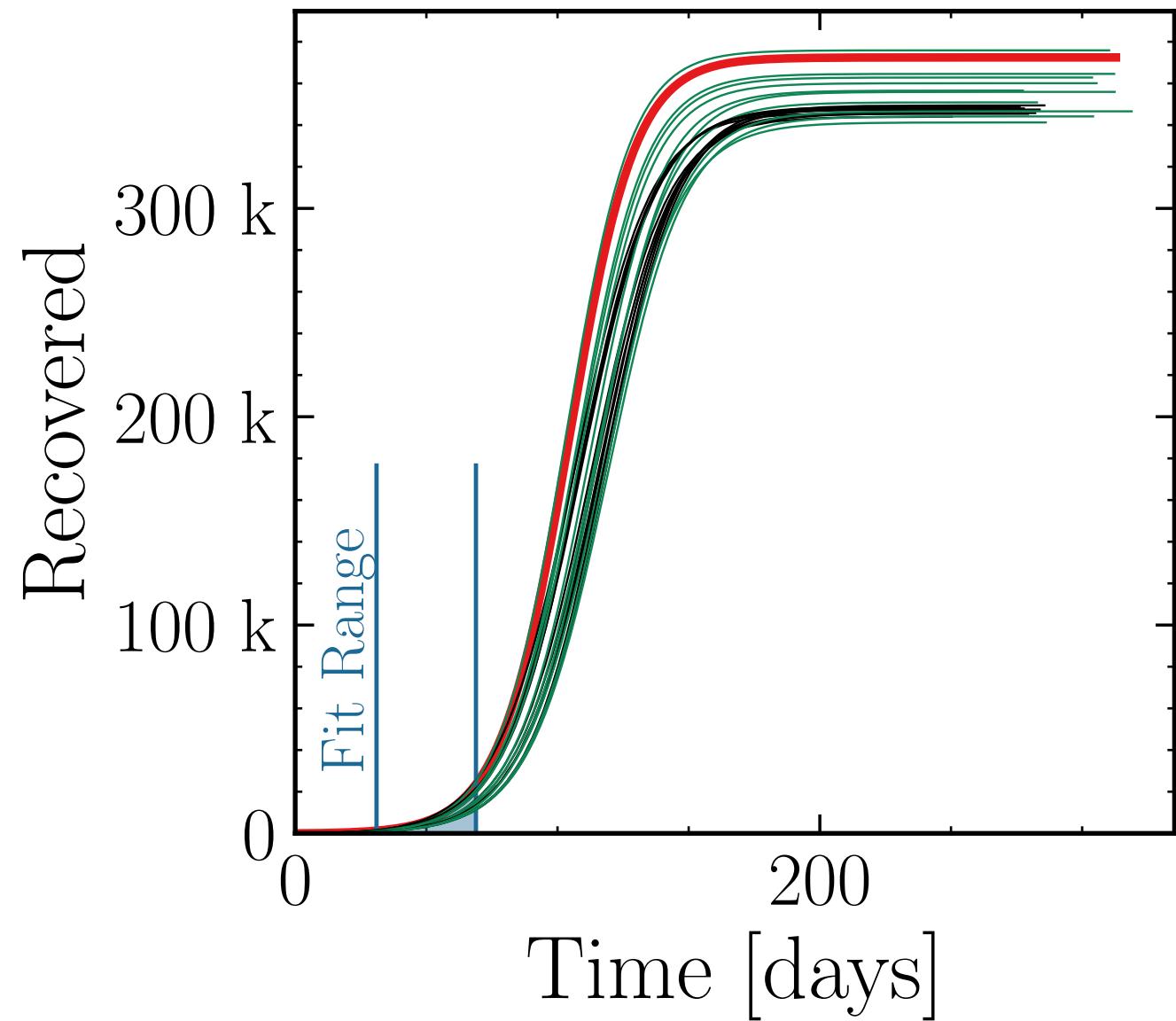
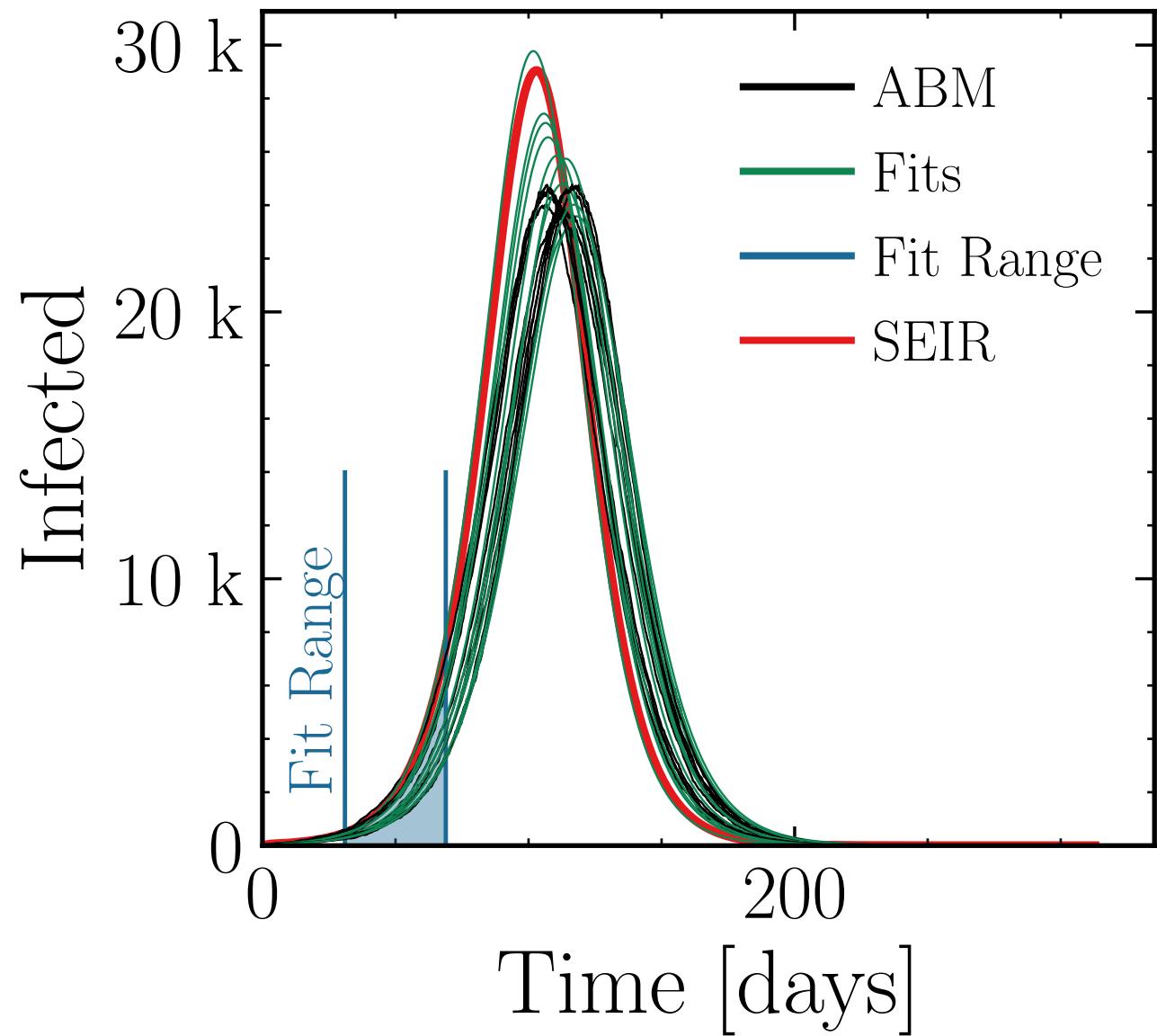
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (25.8 \pm 2.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (356 \pm 0.9\%) \cdot 10^3$$

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



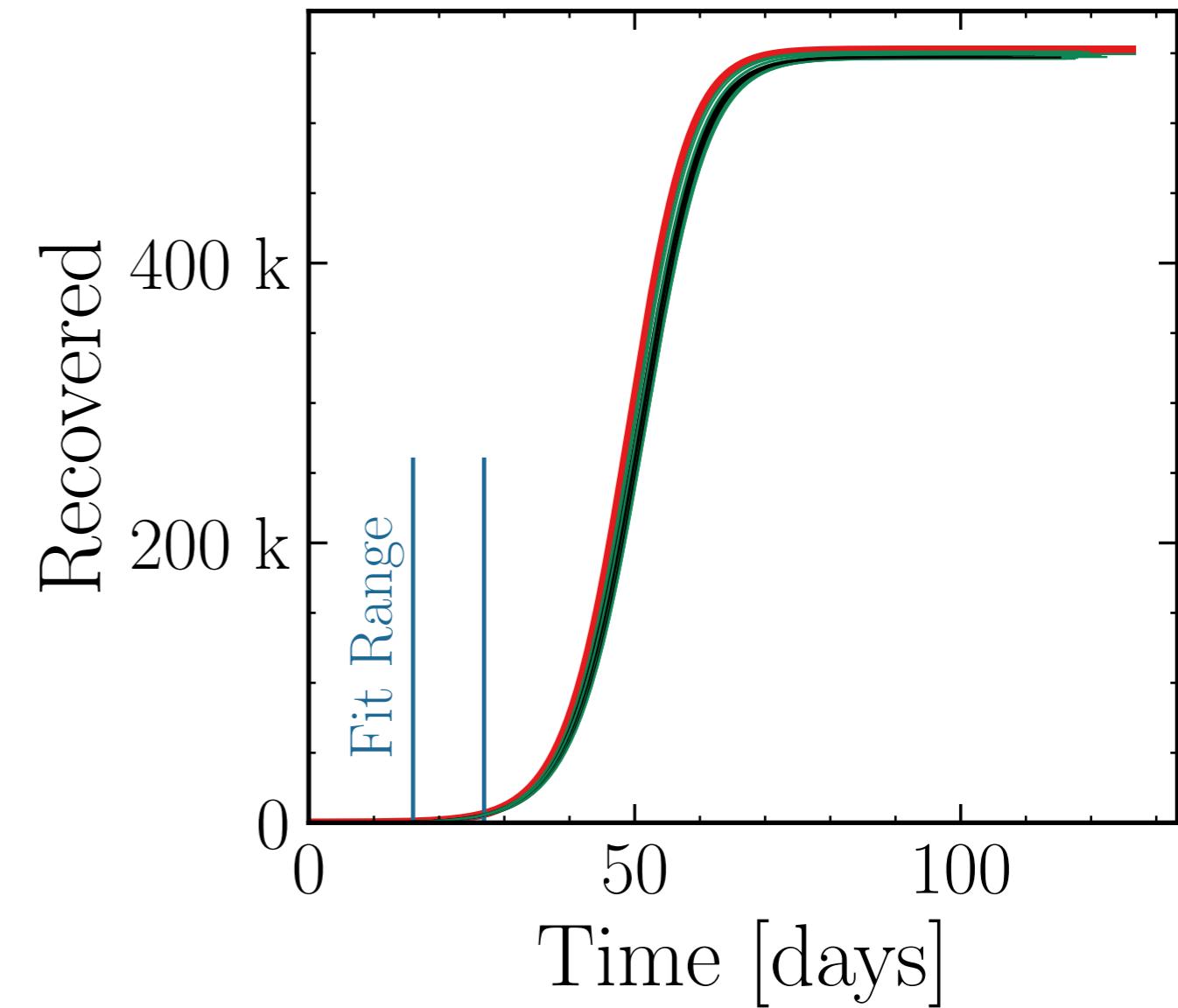
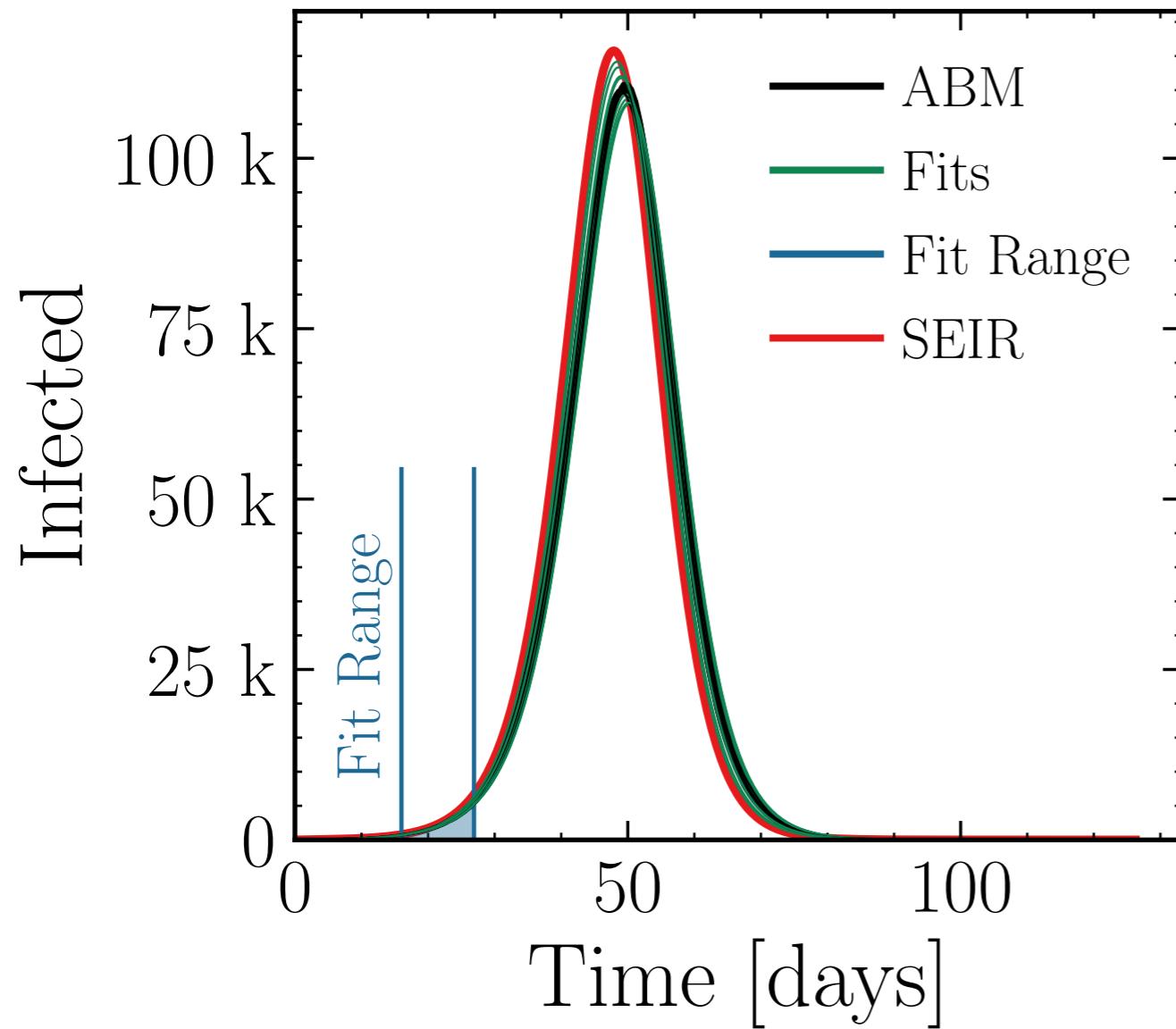
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (110.4 \pm 0.63\%) \cdot 10^3$$

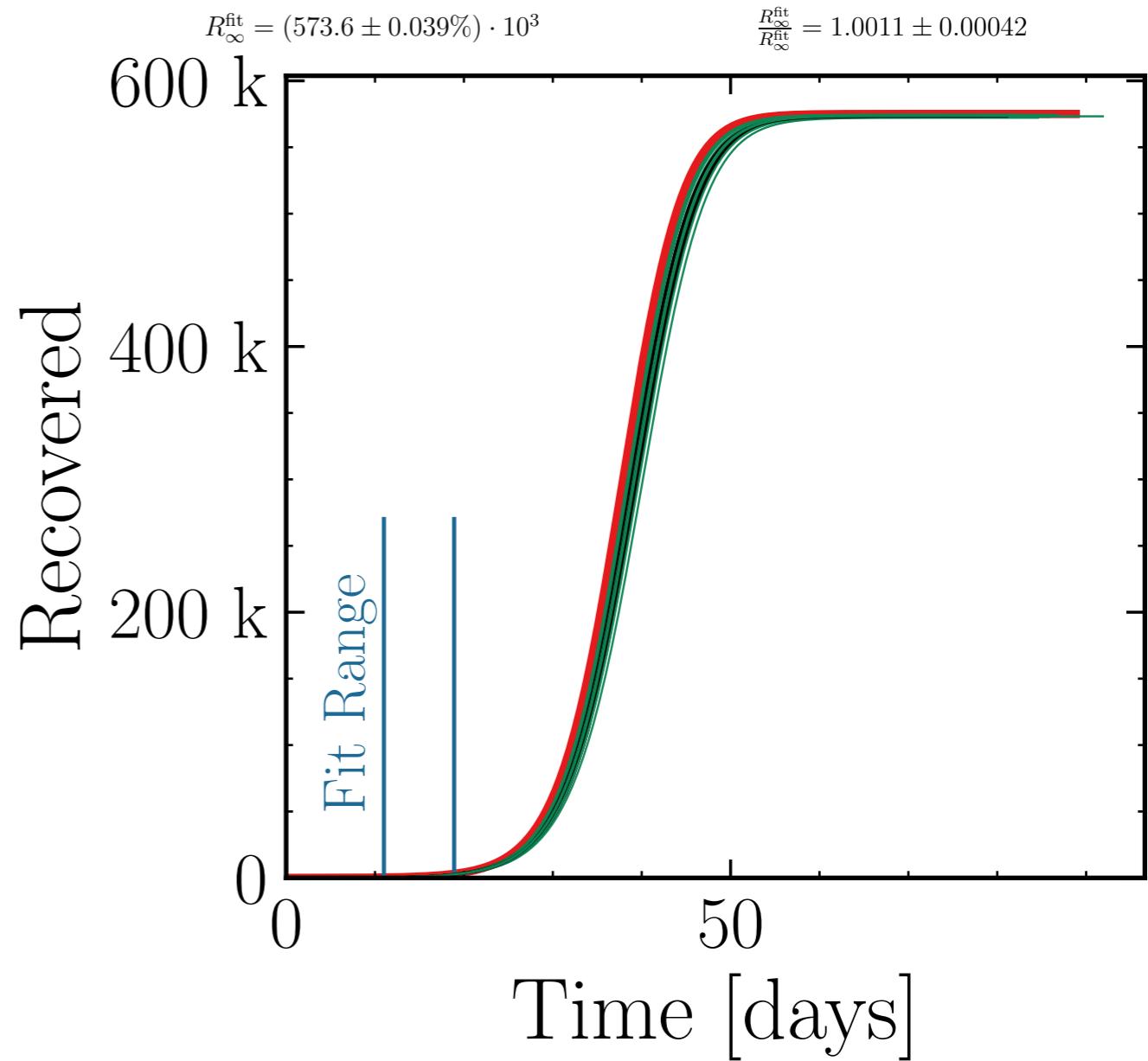
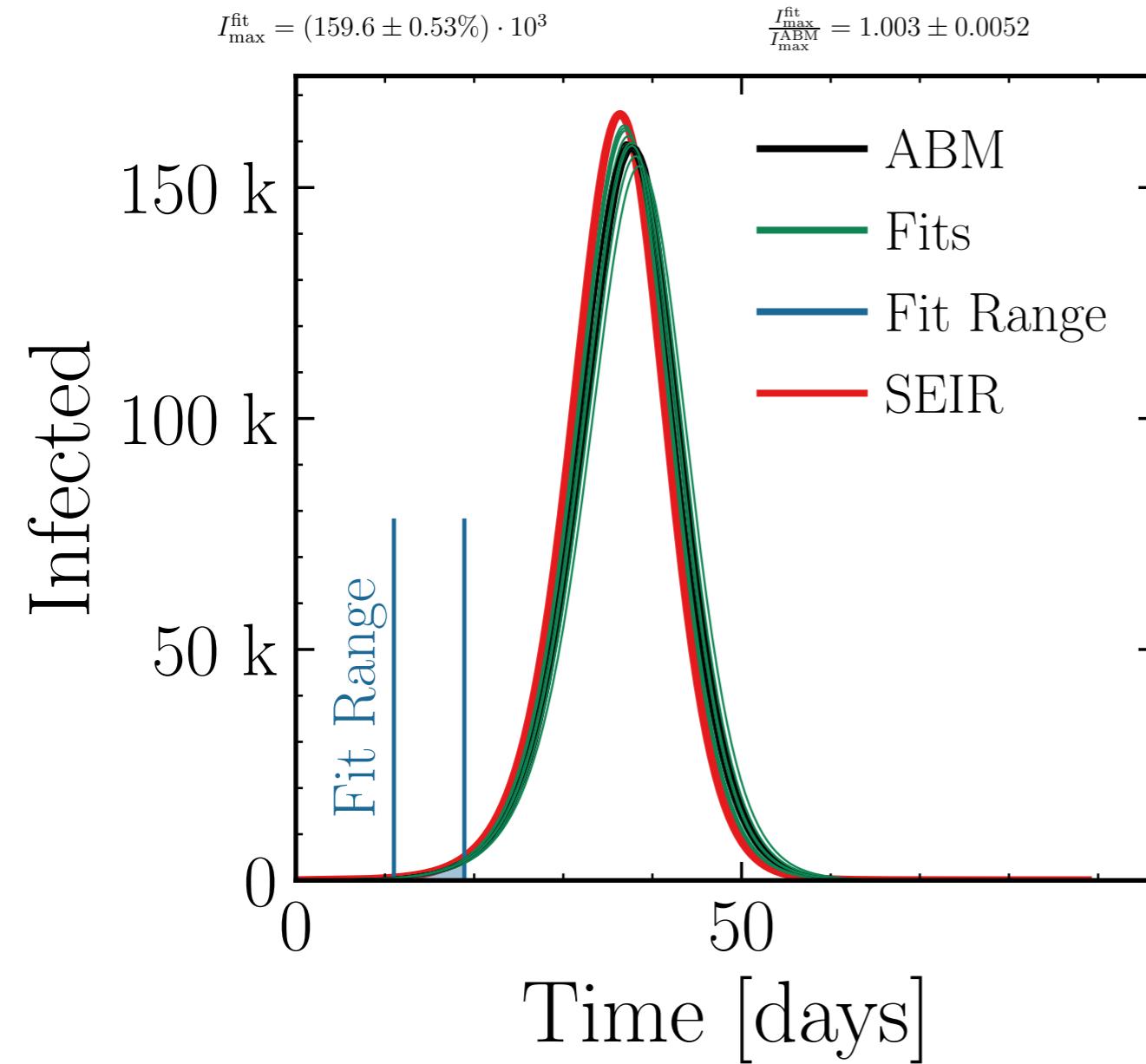
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 0.9996 \pm 0.0071$$

$$R_{\infty}^{\text{fit}} = (548.2 \pm 0.11\%) \cdot 10^3$$

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



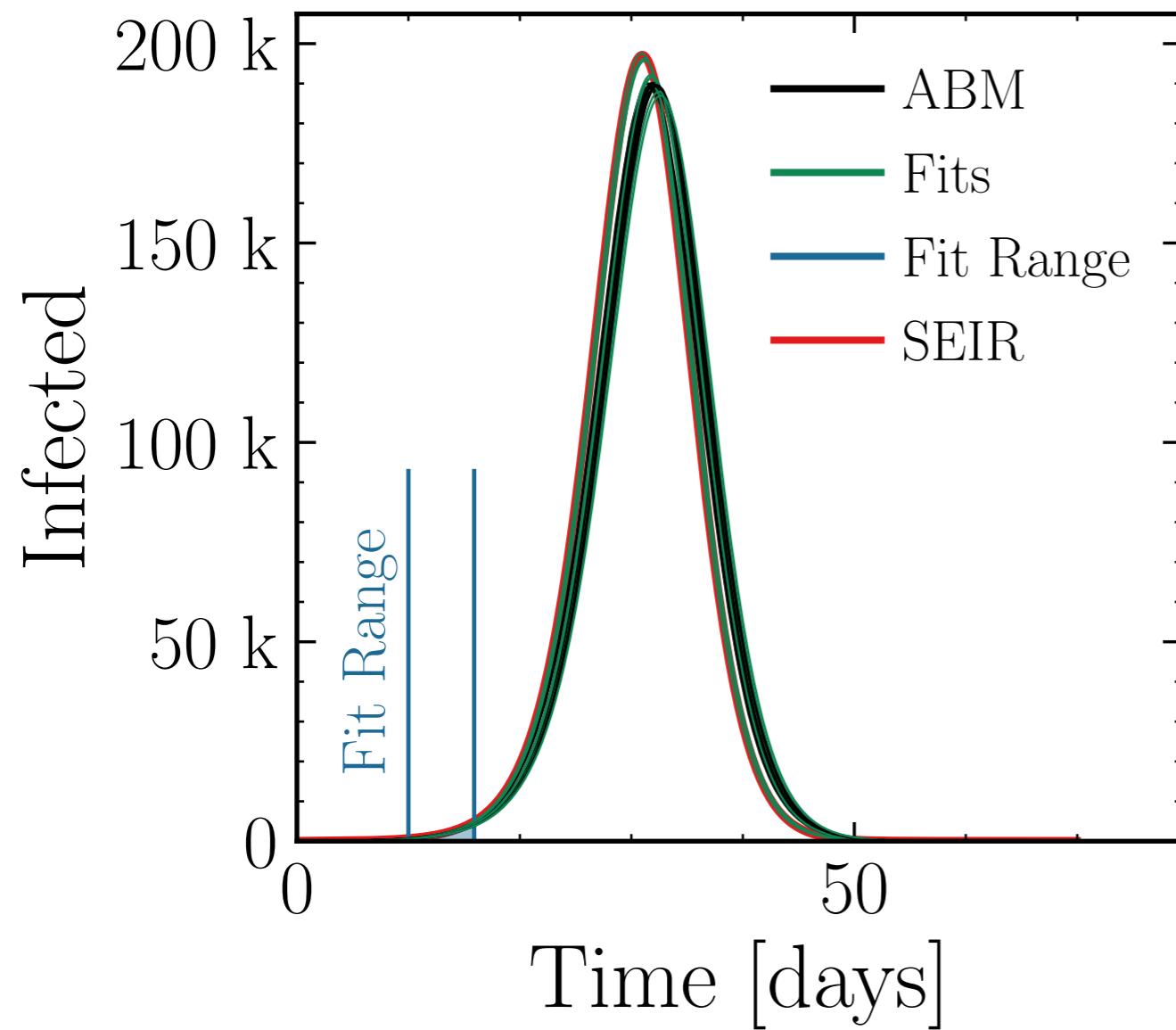
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.03$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

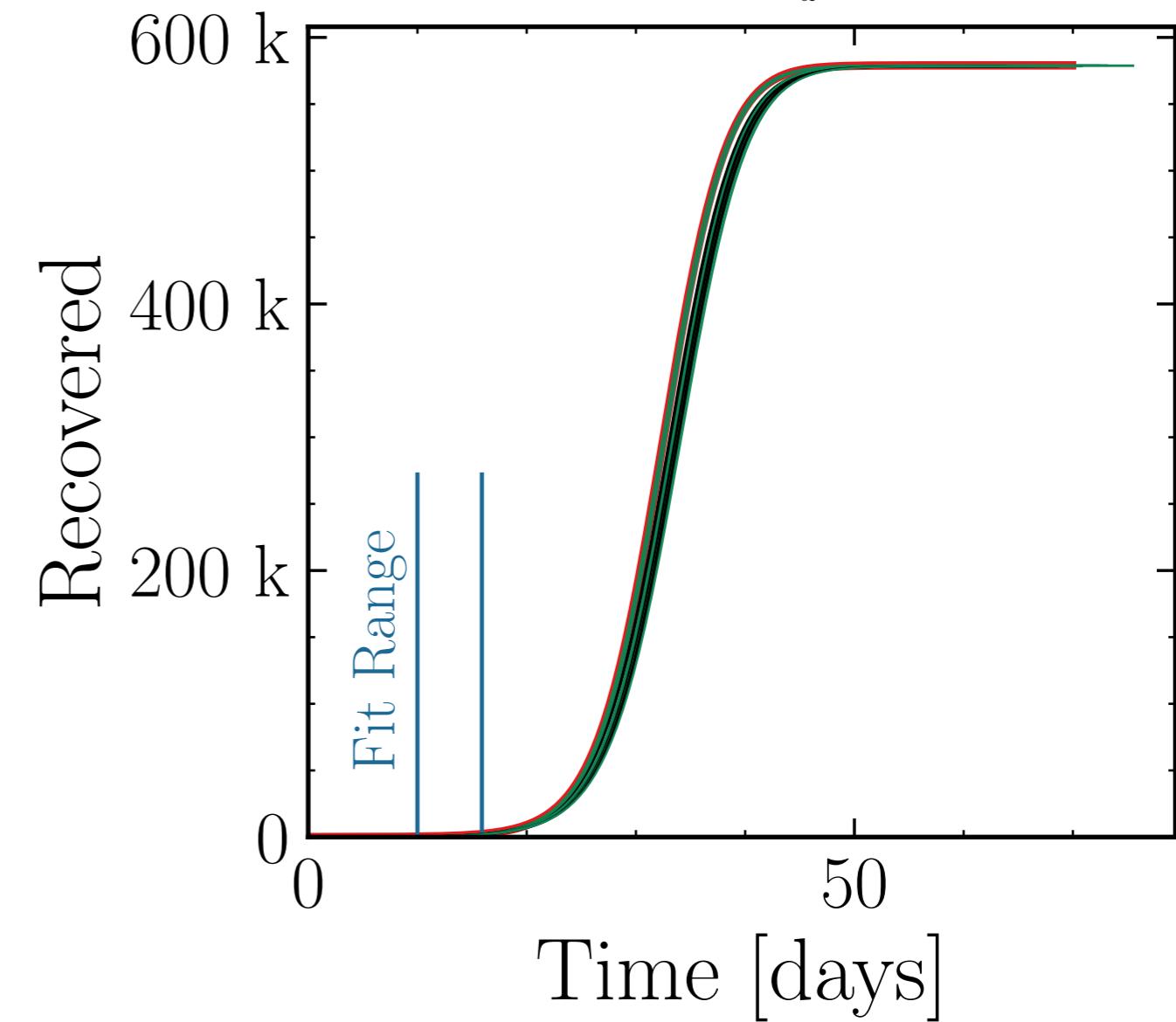
$$I_{\max}^{\text{fit}} = (192 \pm 0.57\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 1.011 \pm 0.0059$$



$$R_{\infty}^{\text{fit}} = (578.65 \pm 0.015\%) \cdot 10^3$$

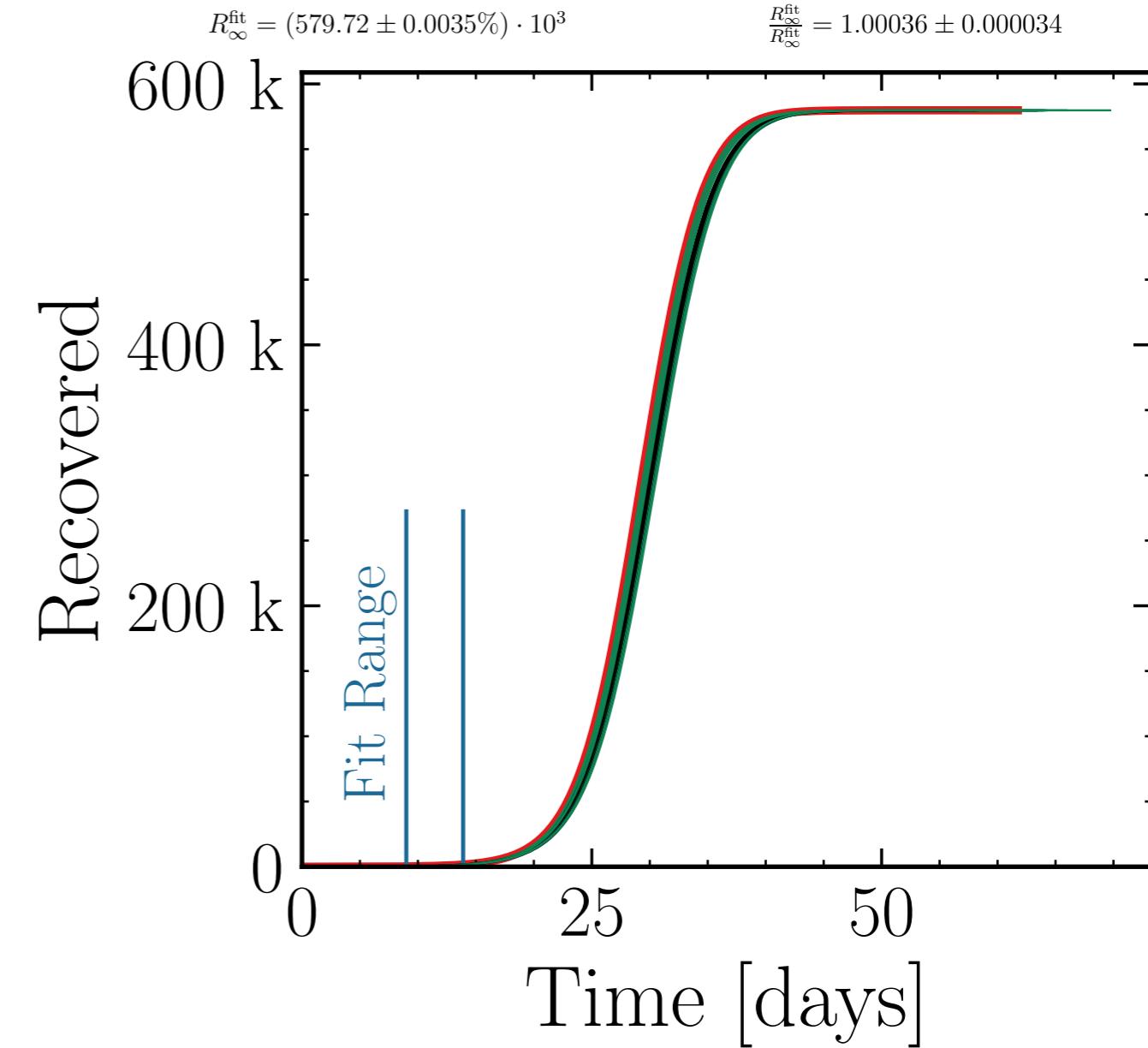
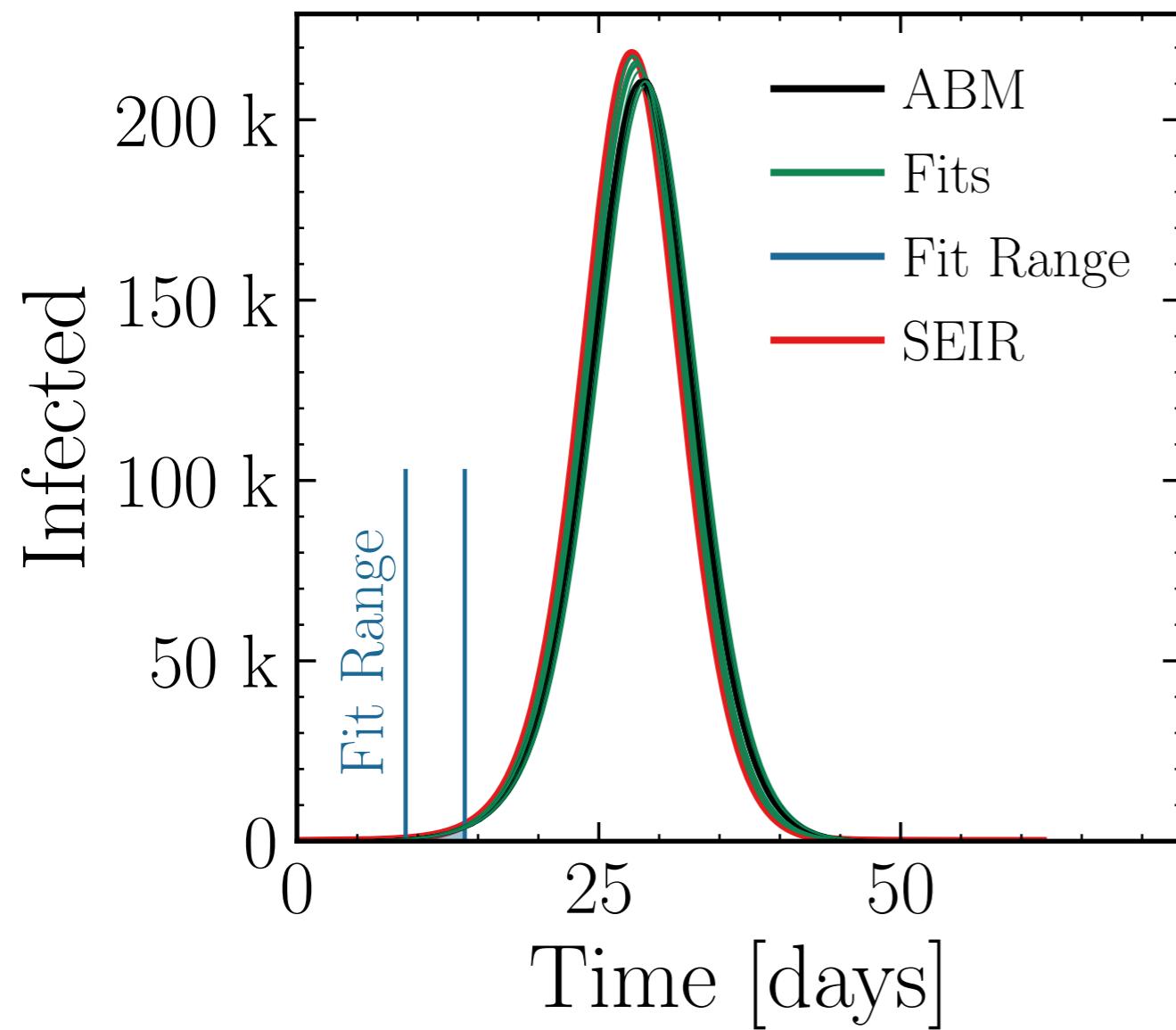
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.0008 \pm 0.00014$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.05$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (214.3 \pm 0.4\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.017 \pm 0.0046$$



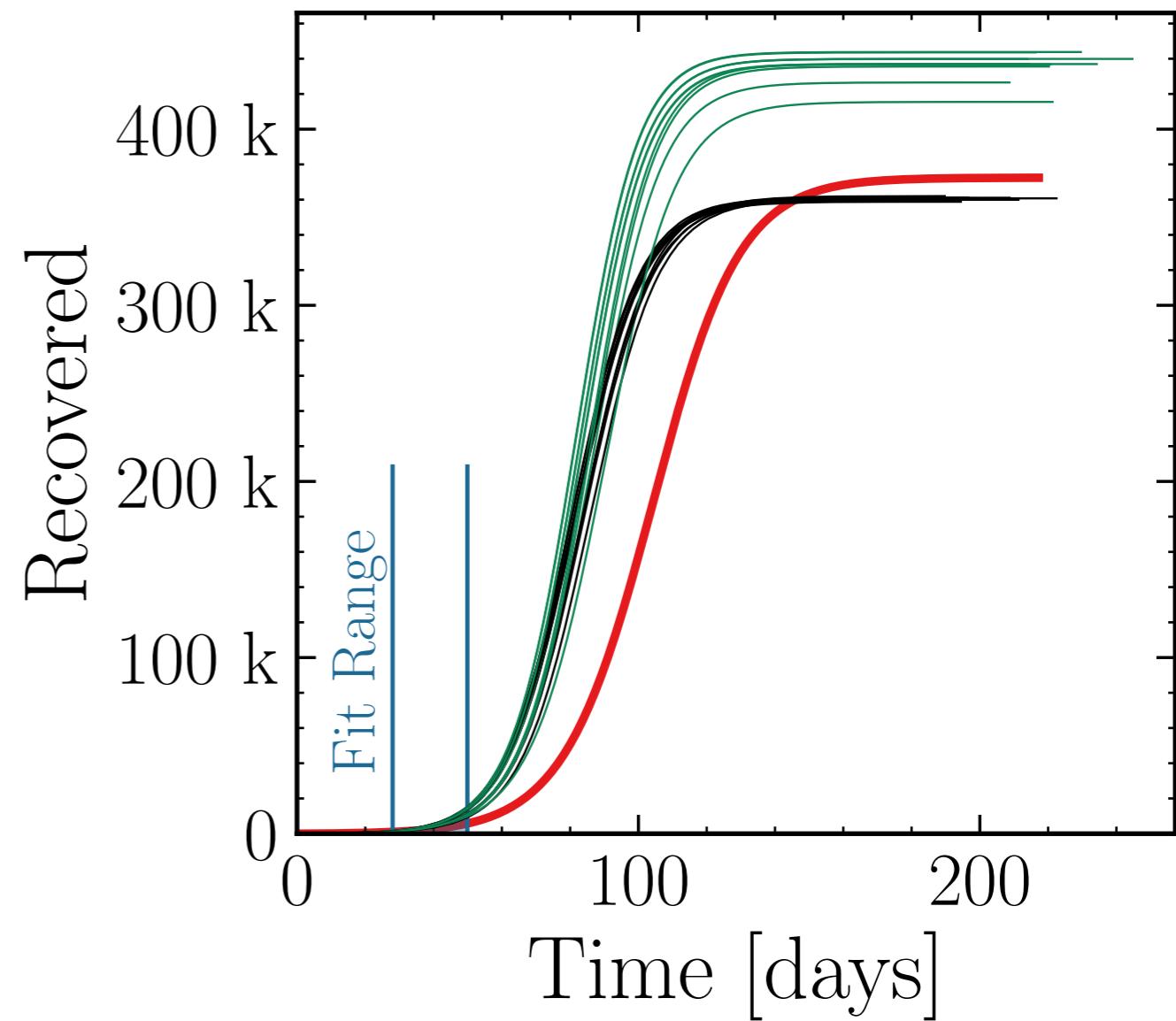
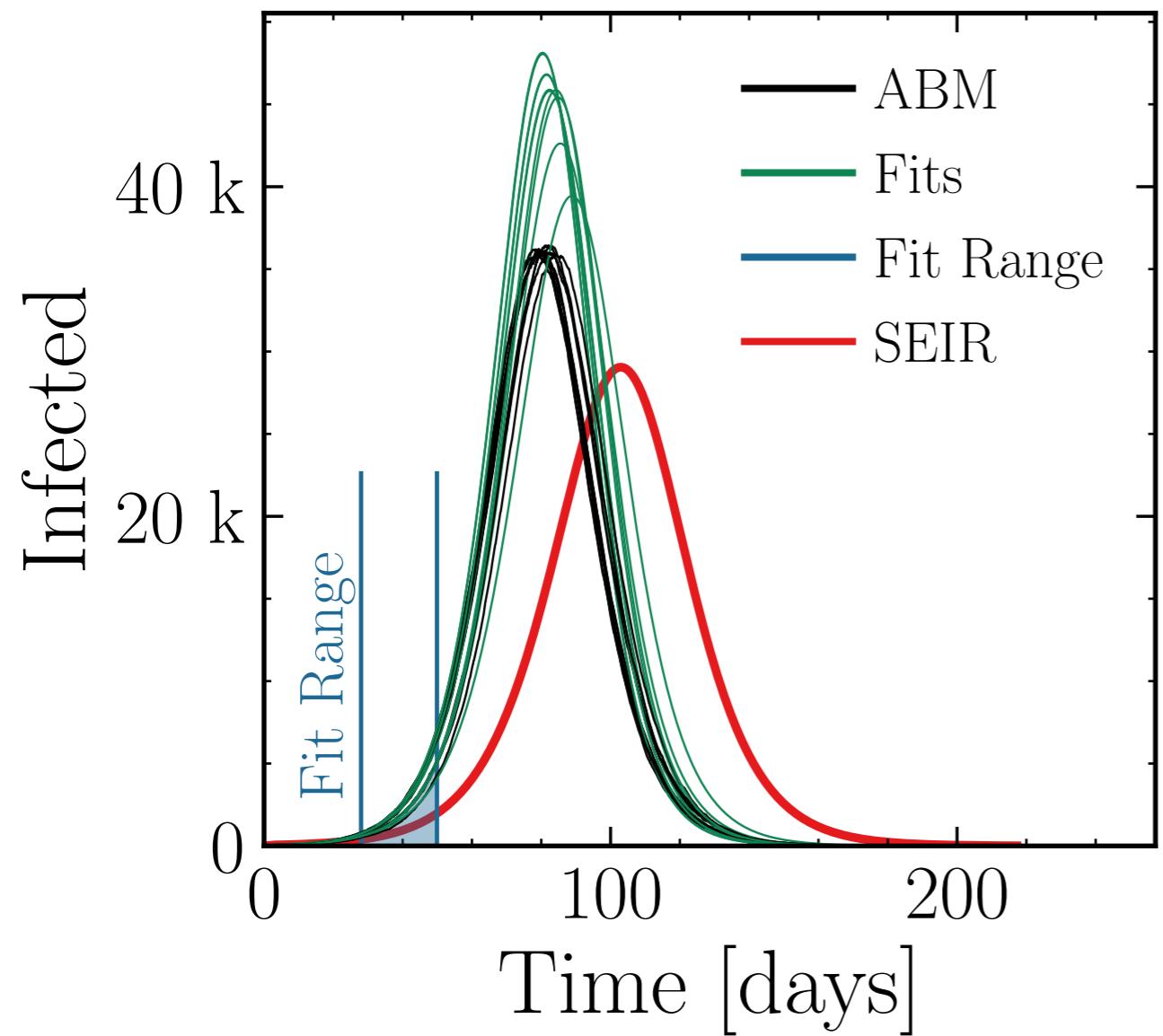
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (45.5 \pm 1.7\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (436 \pm 0.59\%) \cdot 10^3$$

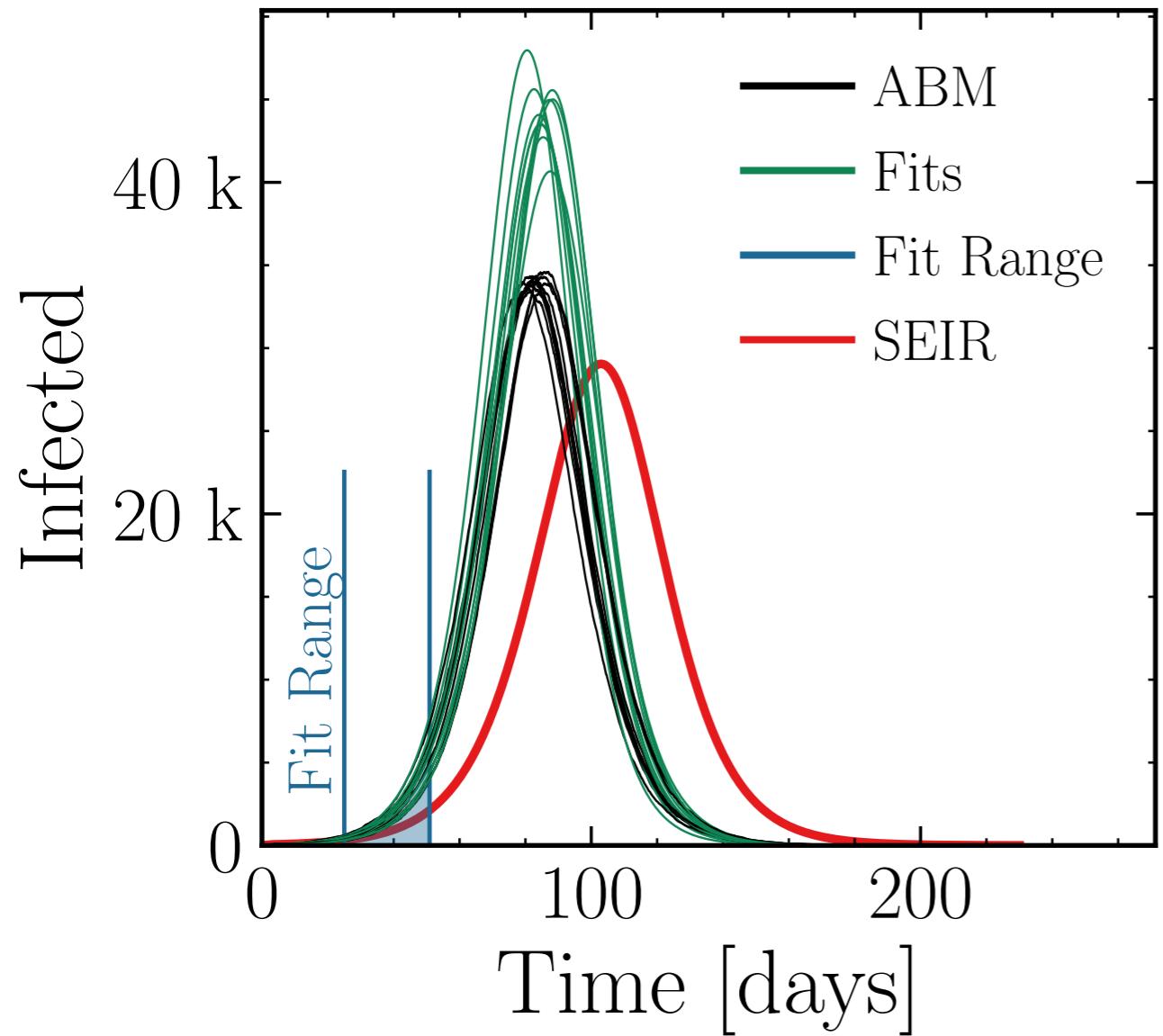
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.208 \pm 0.0072$$



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

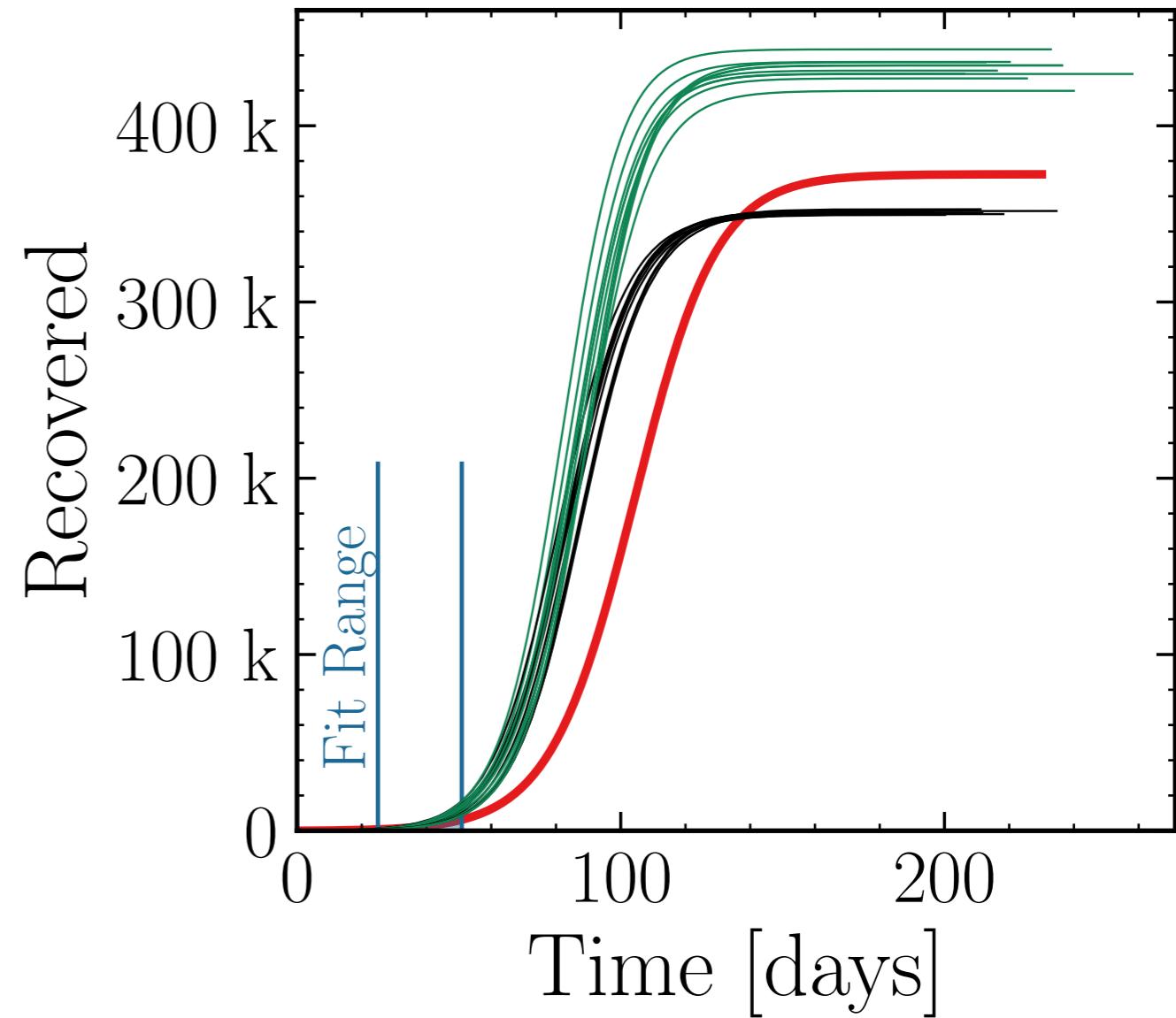
$$I_{\max}^{\text{fit}} = (44.4 \pm 1.3\%) \cdot 10^3$$

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



$$R_{\infty}^{\text{fit}} = (432 \pm 0.44\%) \cdot 10^3$$

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



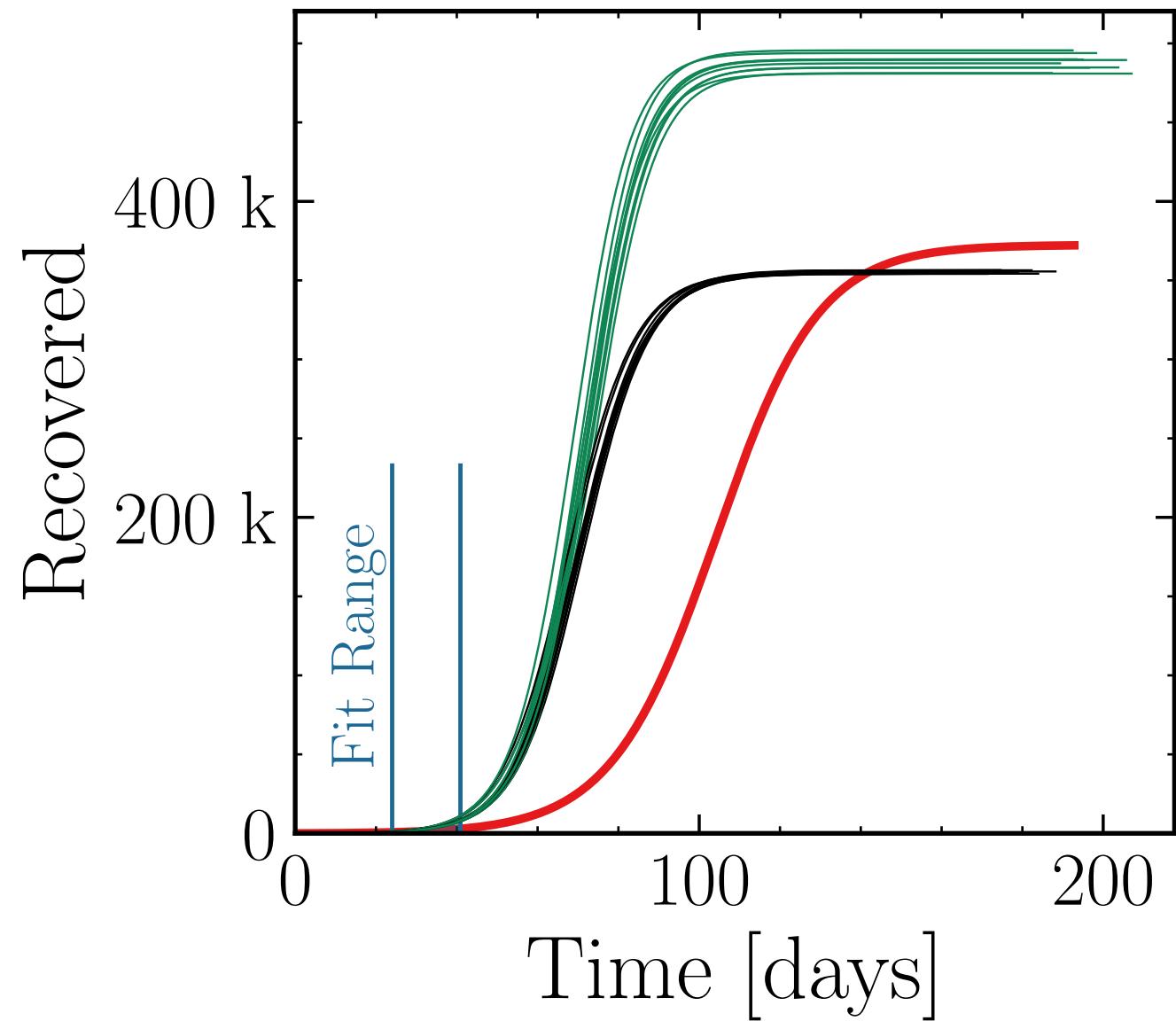
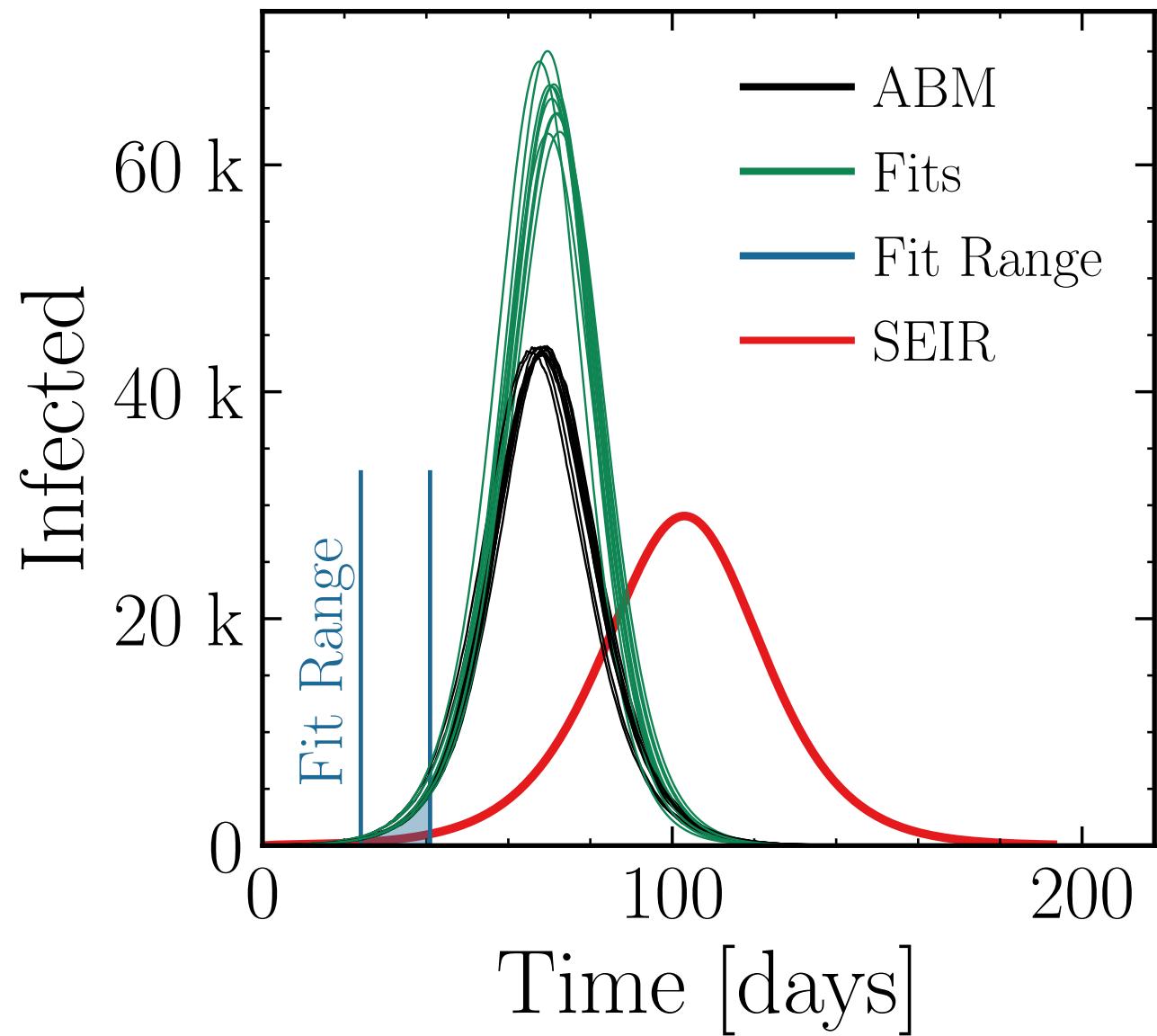
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (66.1 \pm 1.1\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (488 \pm 0.32\%) \cdot 10^3$$

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



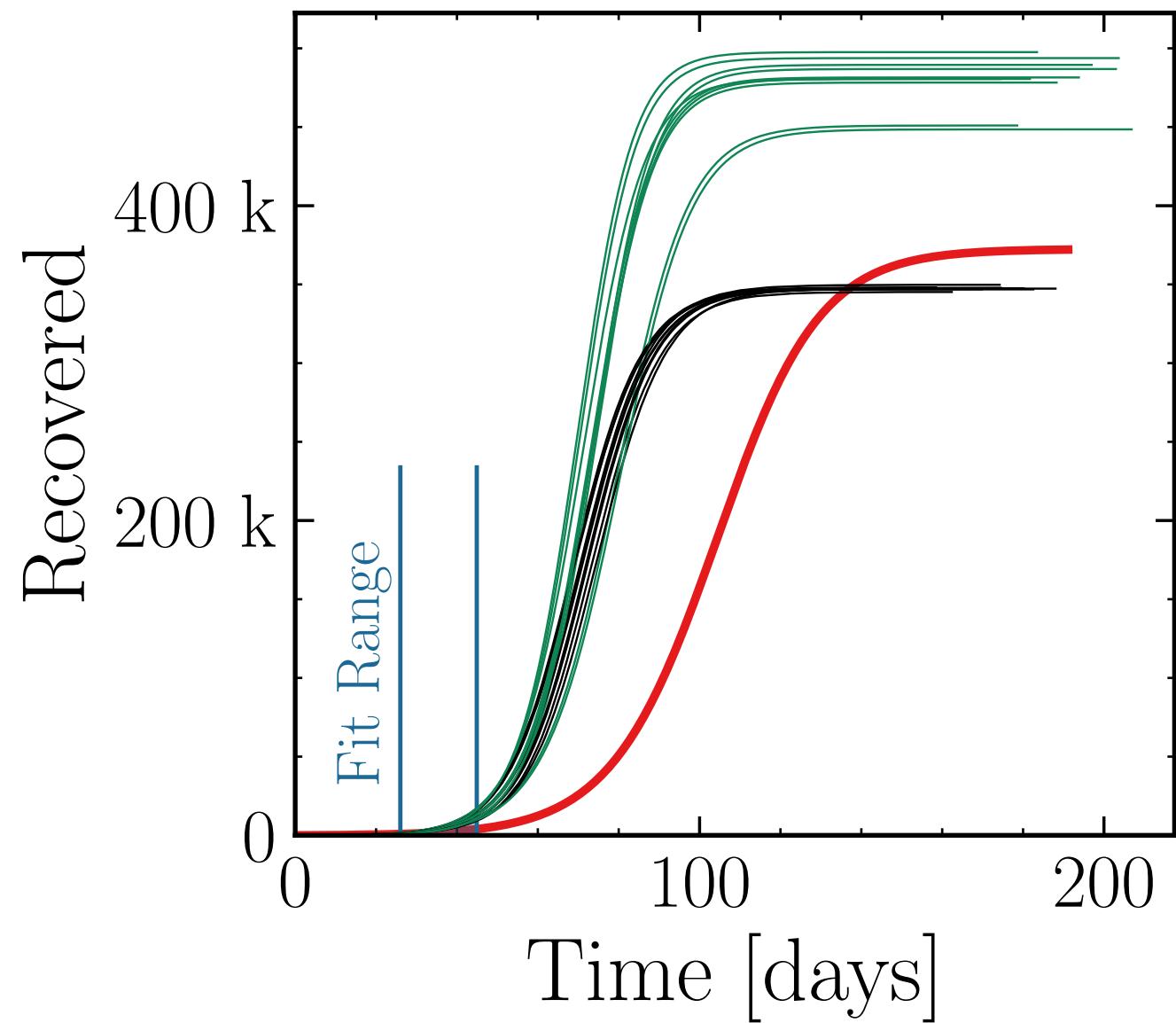
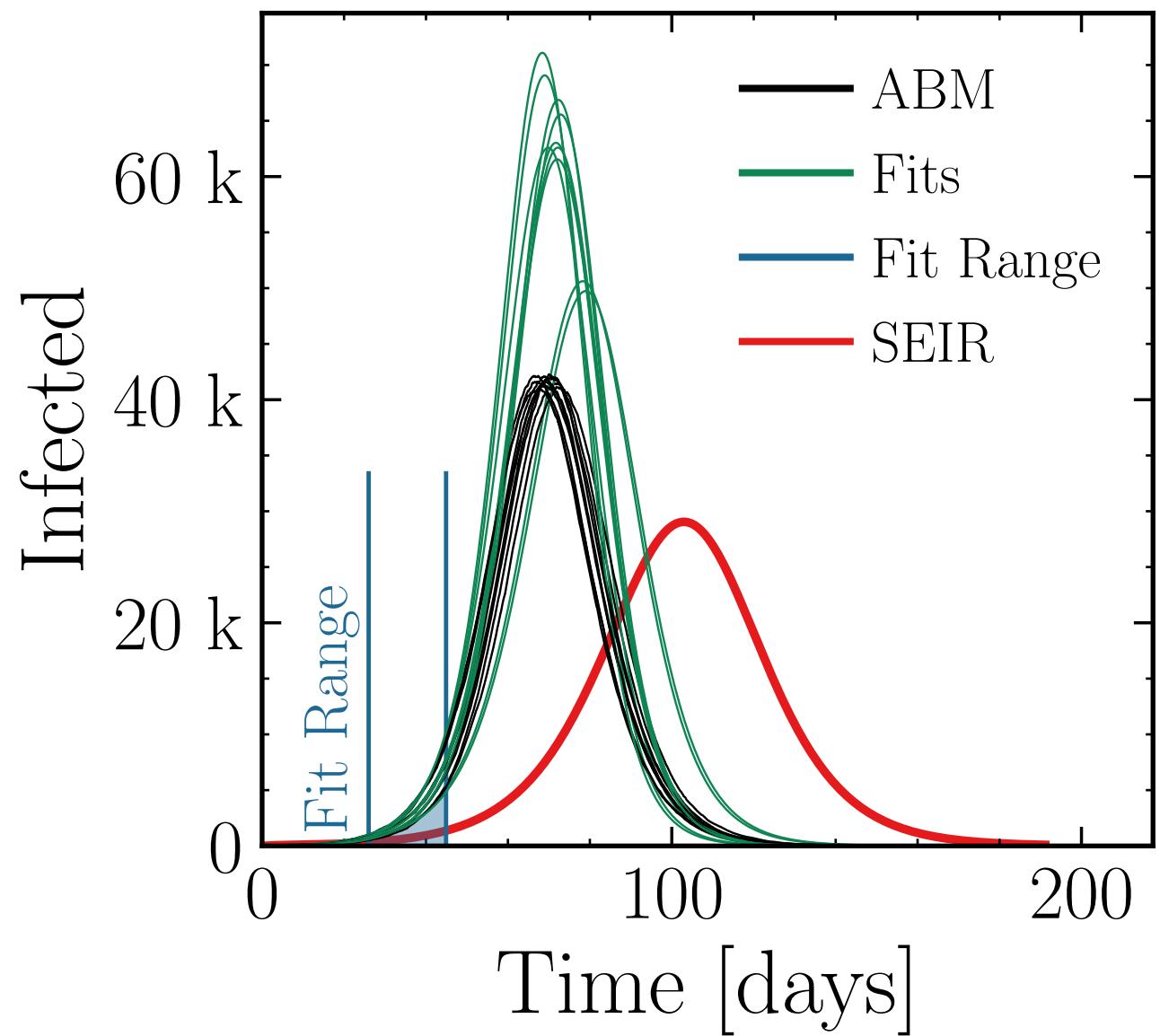
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (62 \pm 3.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (479 \pm 1.0\%) \cdot 10^3$$

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



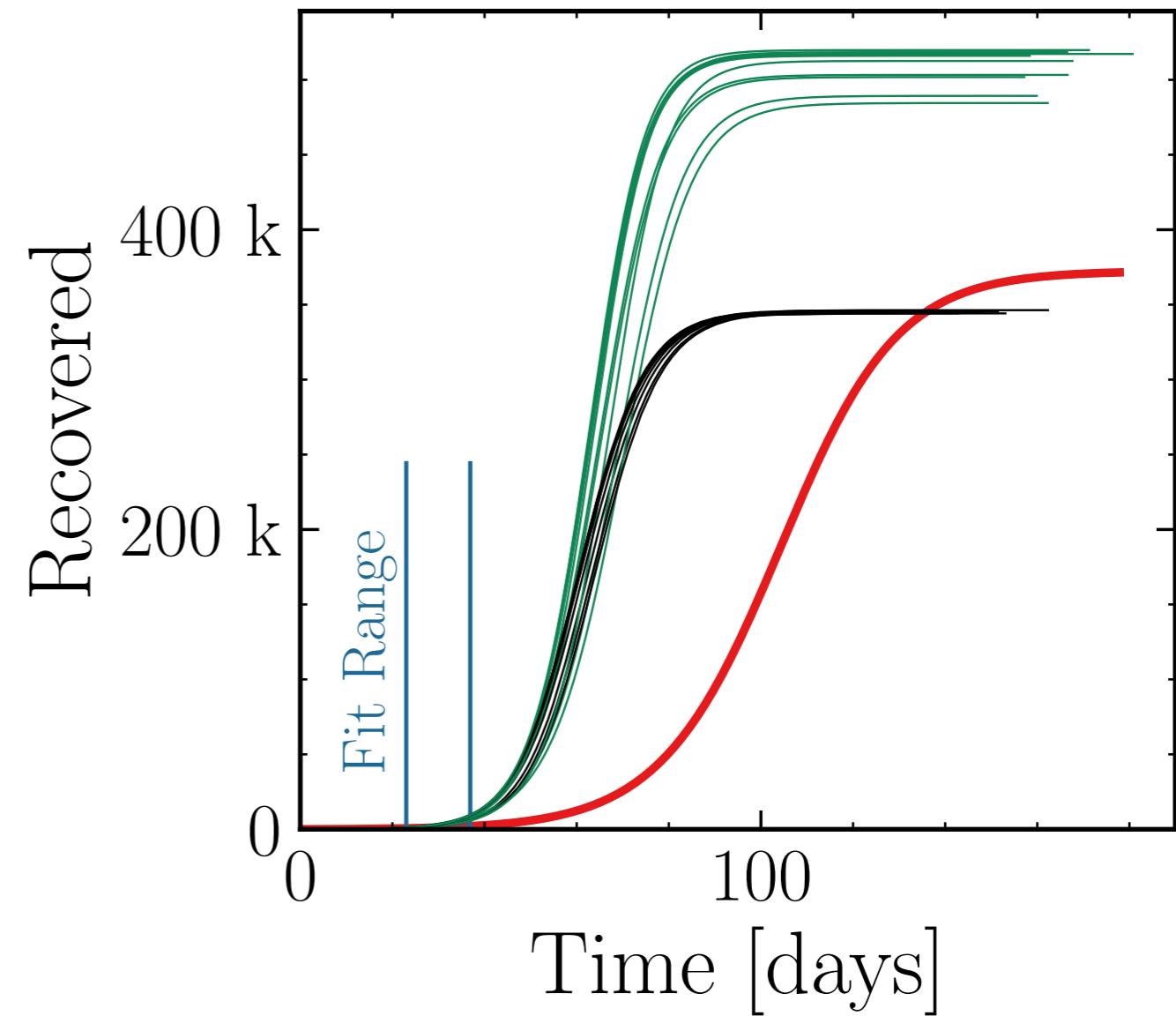
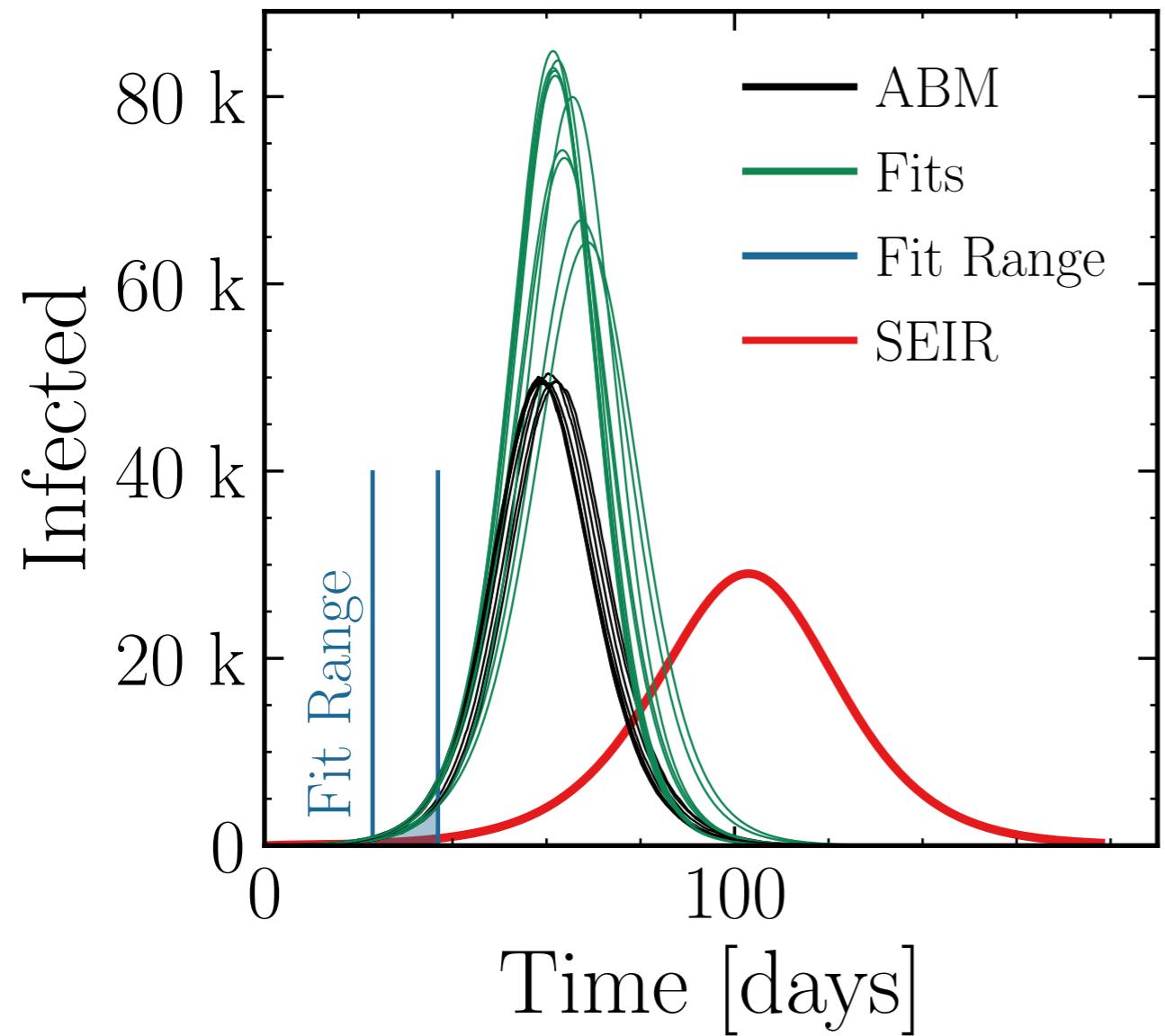
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (78 \pm 2.9\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (508 \pm 0.75\%) \cdot 10^3$$

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



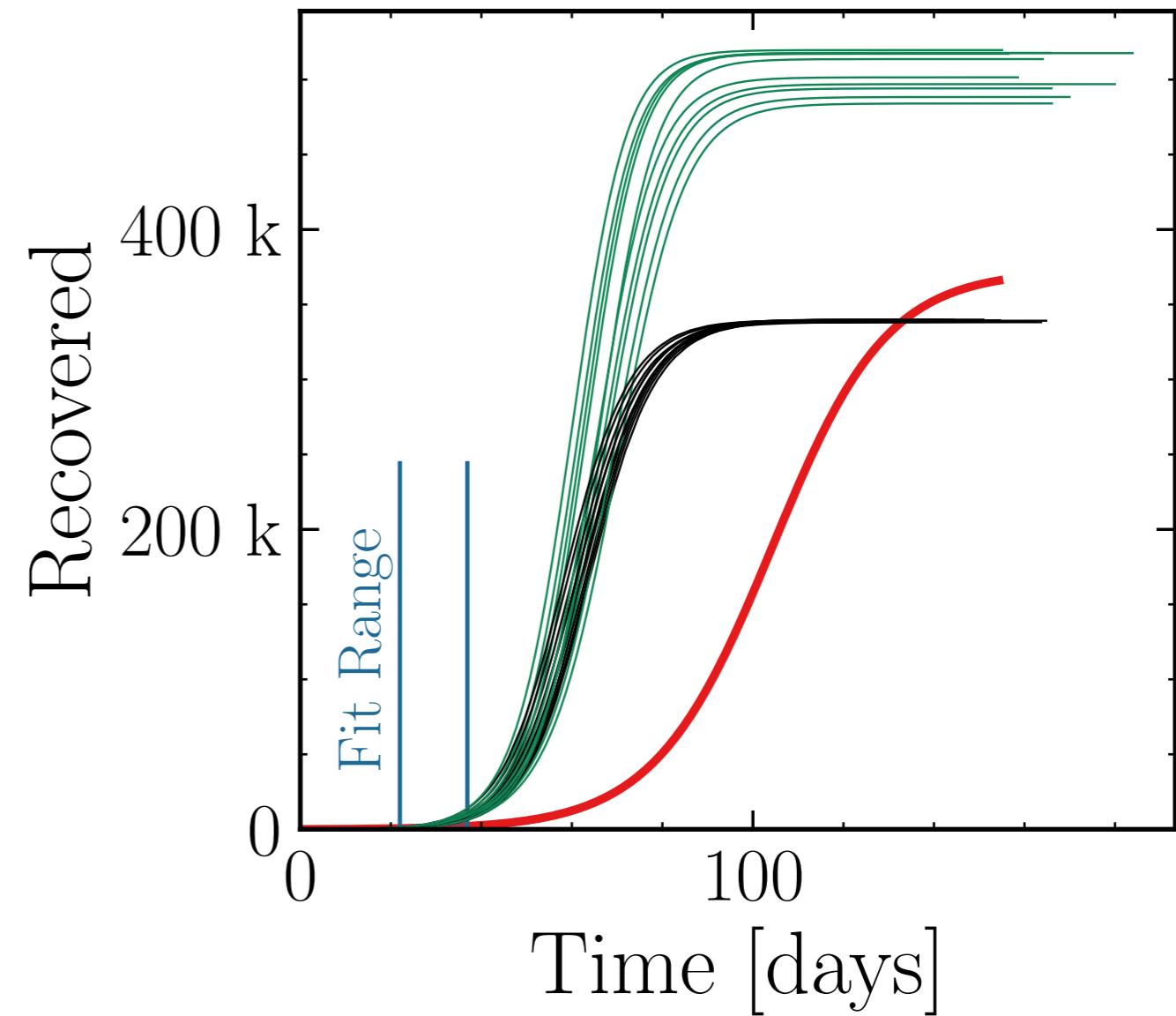
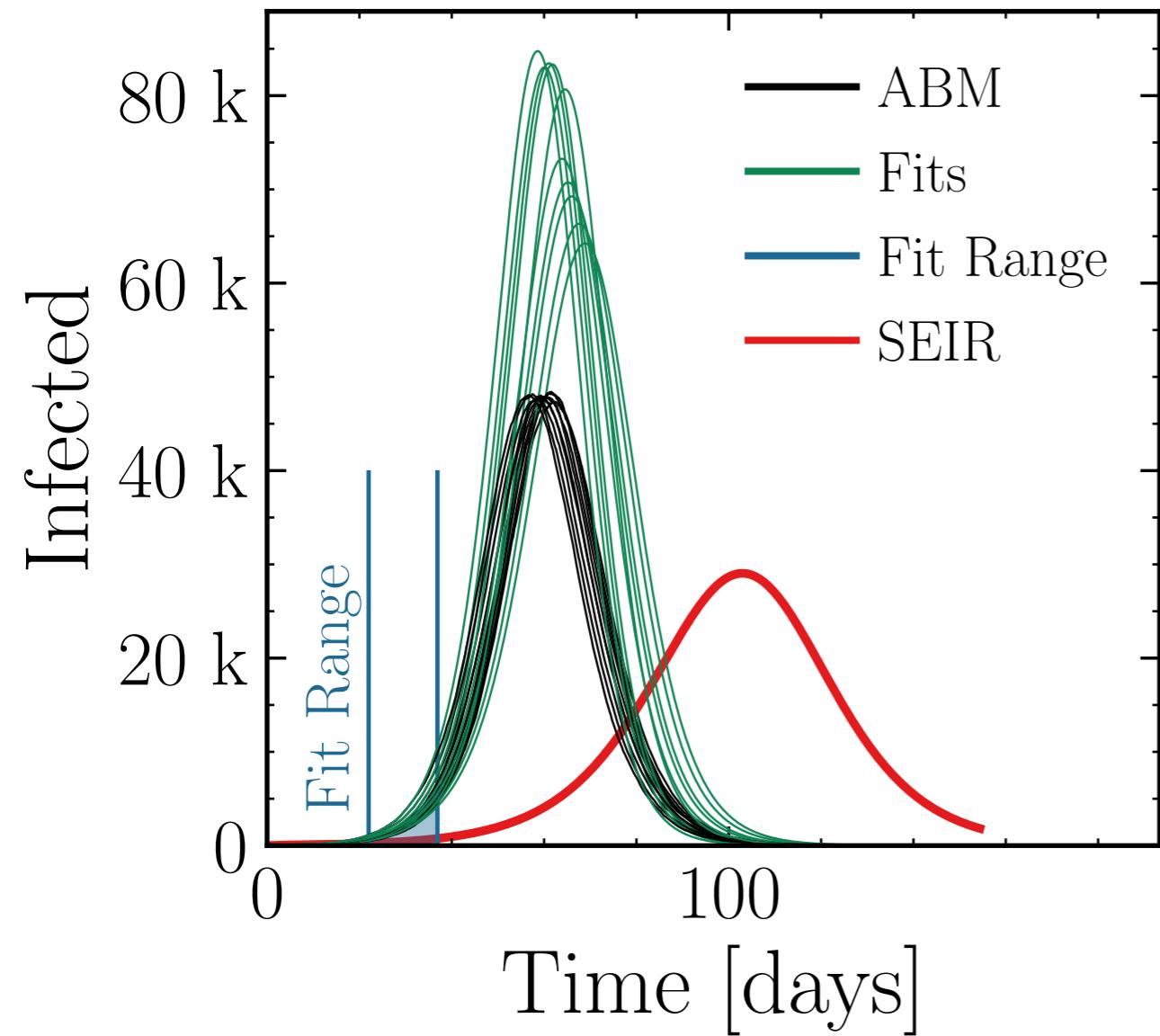
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (76 \pm 3.1\%) \cdot 10^3$$

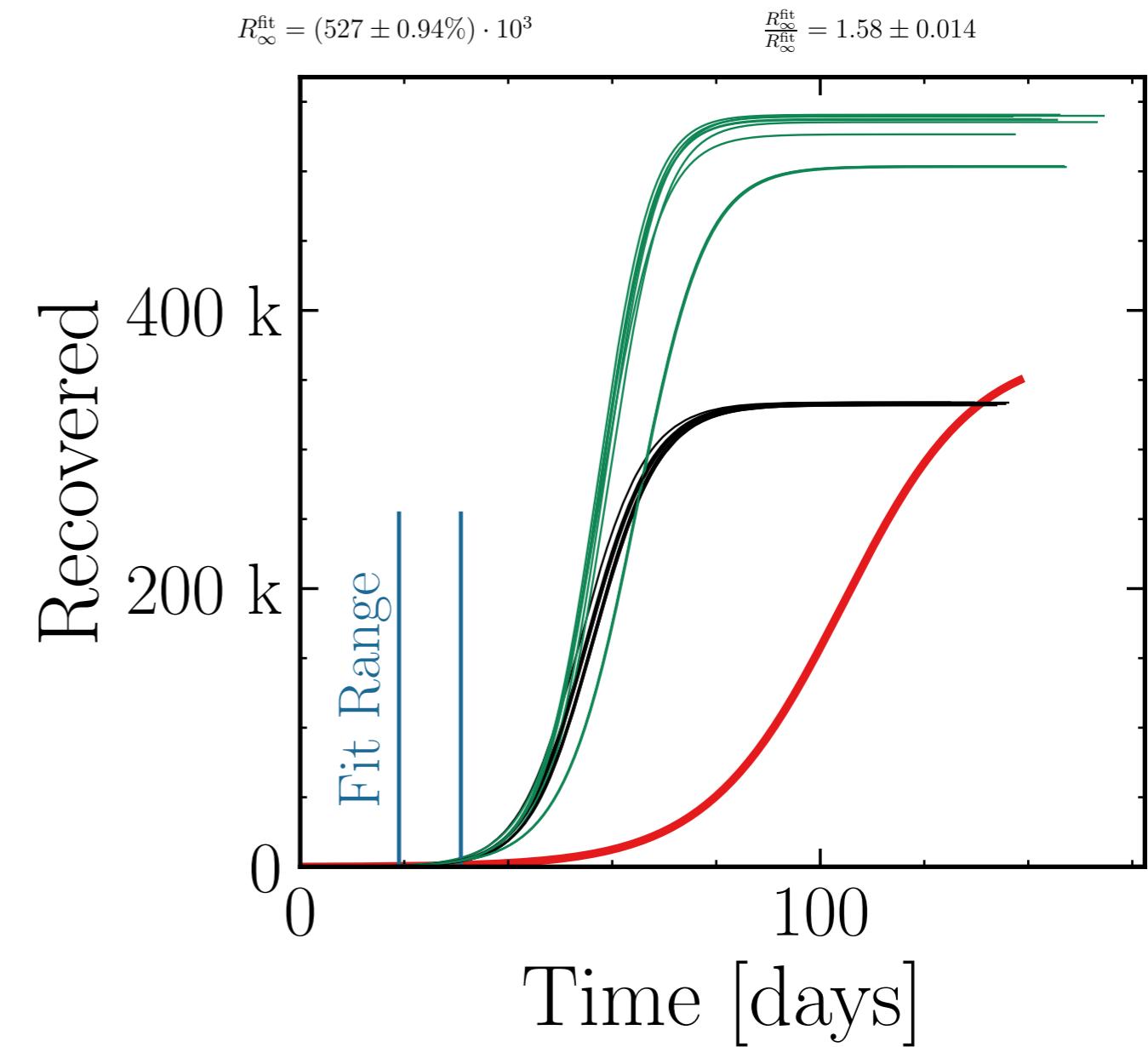
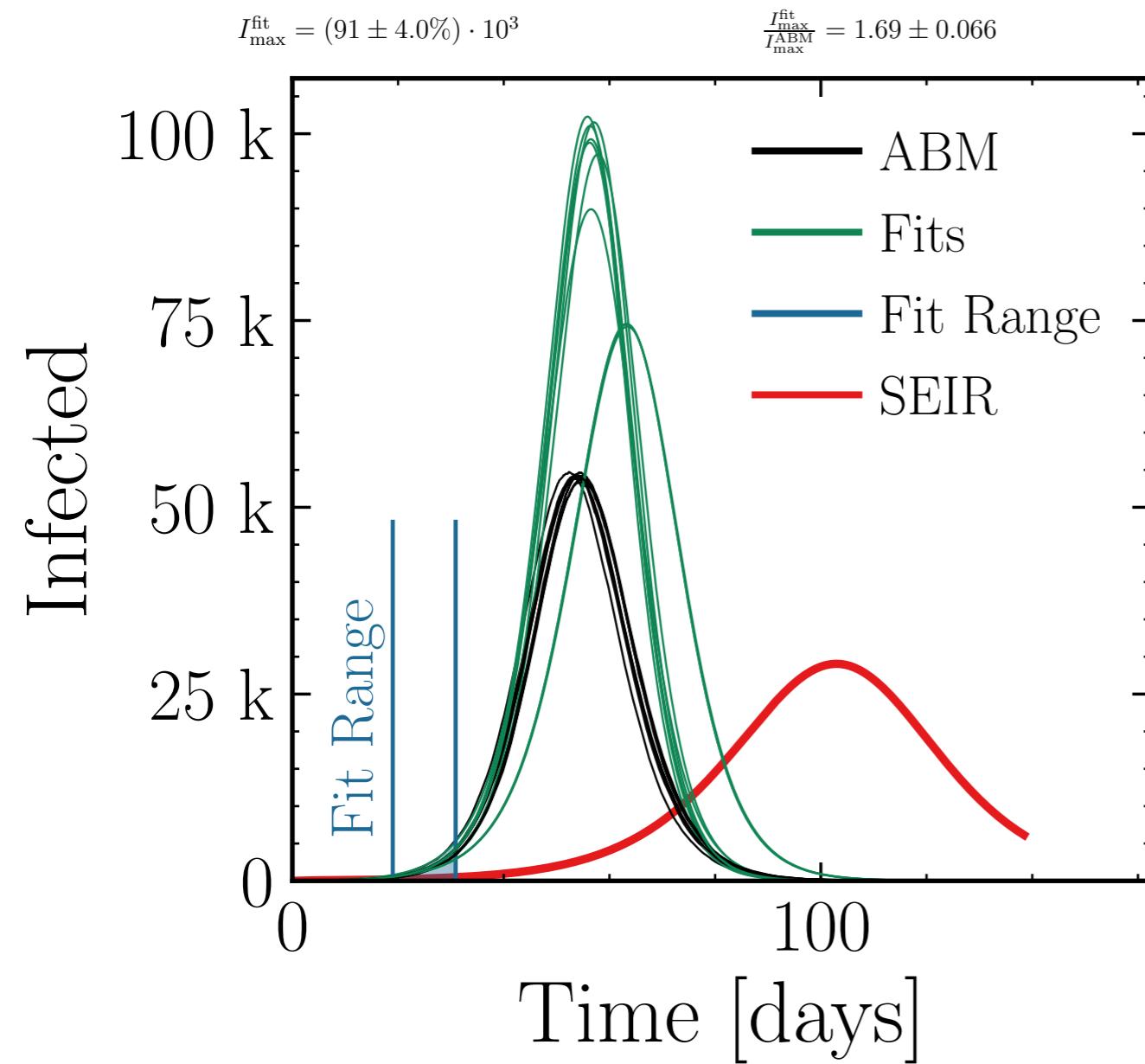
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 1.58 \pm 0.049$$

$$R_{\infty}^{\text{fit}} = (505 \pm 0.81\%) \cdot 10^3$$

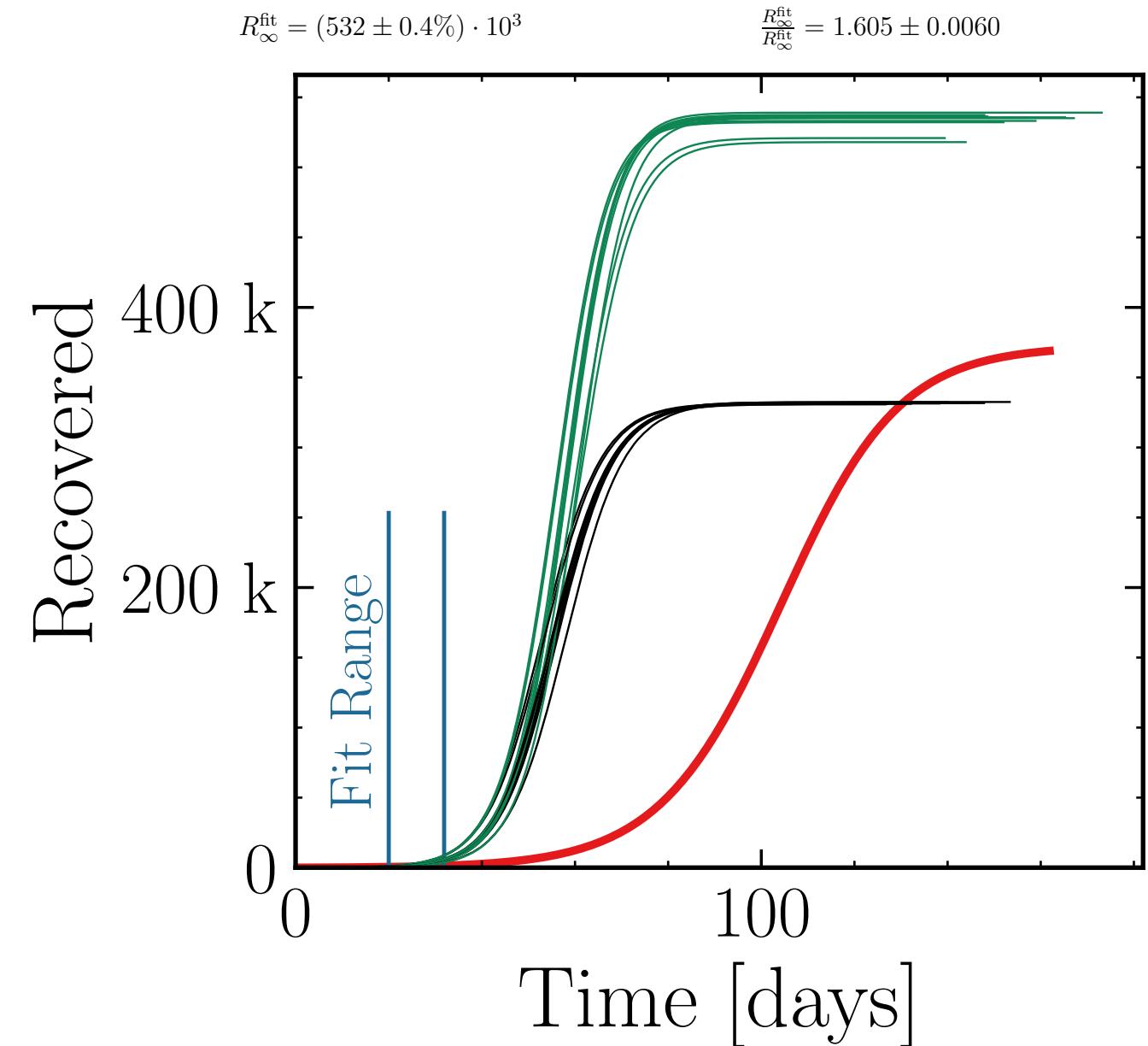
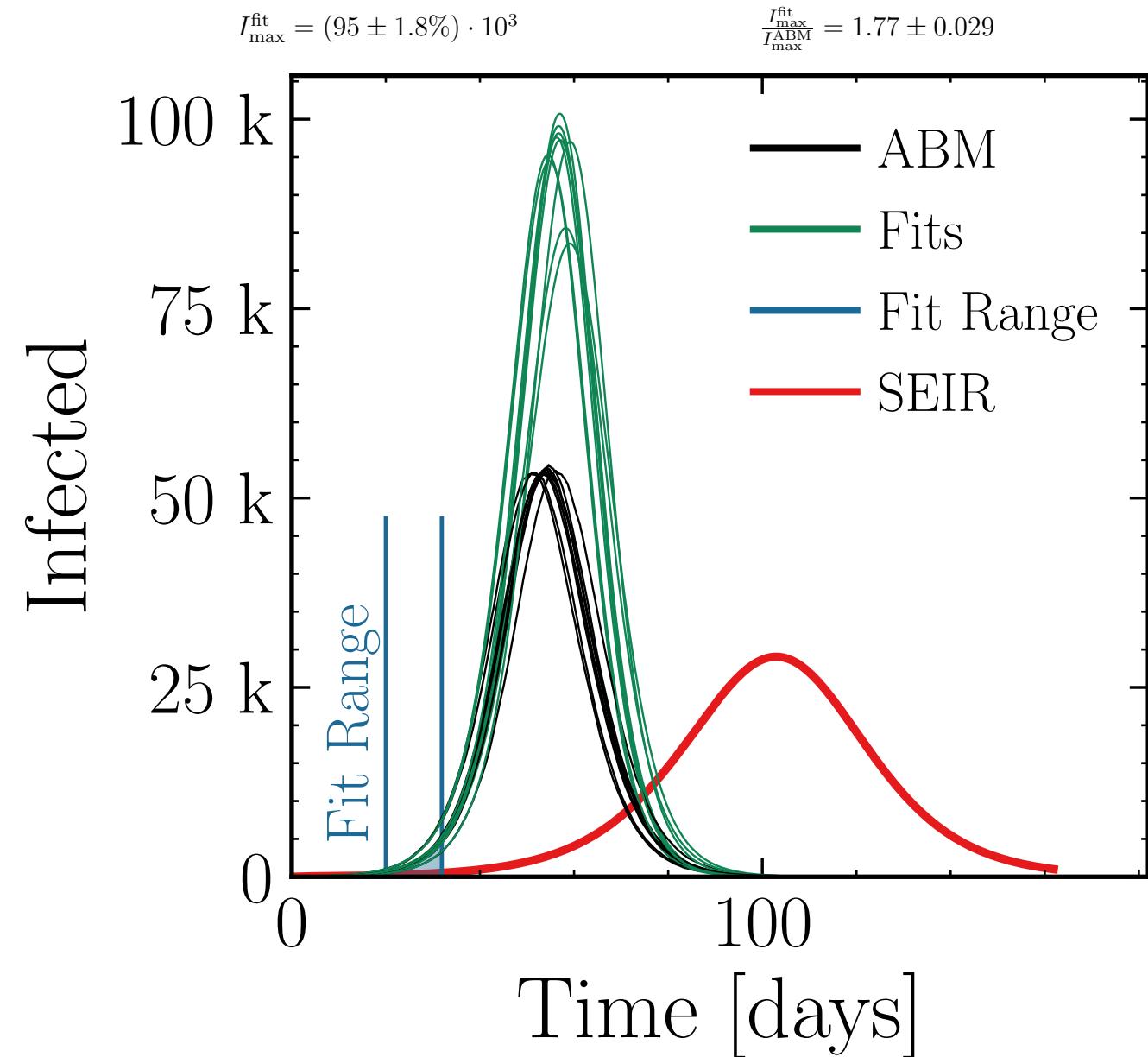
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.49 \pm 0.012$$



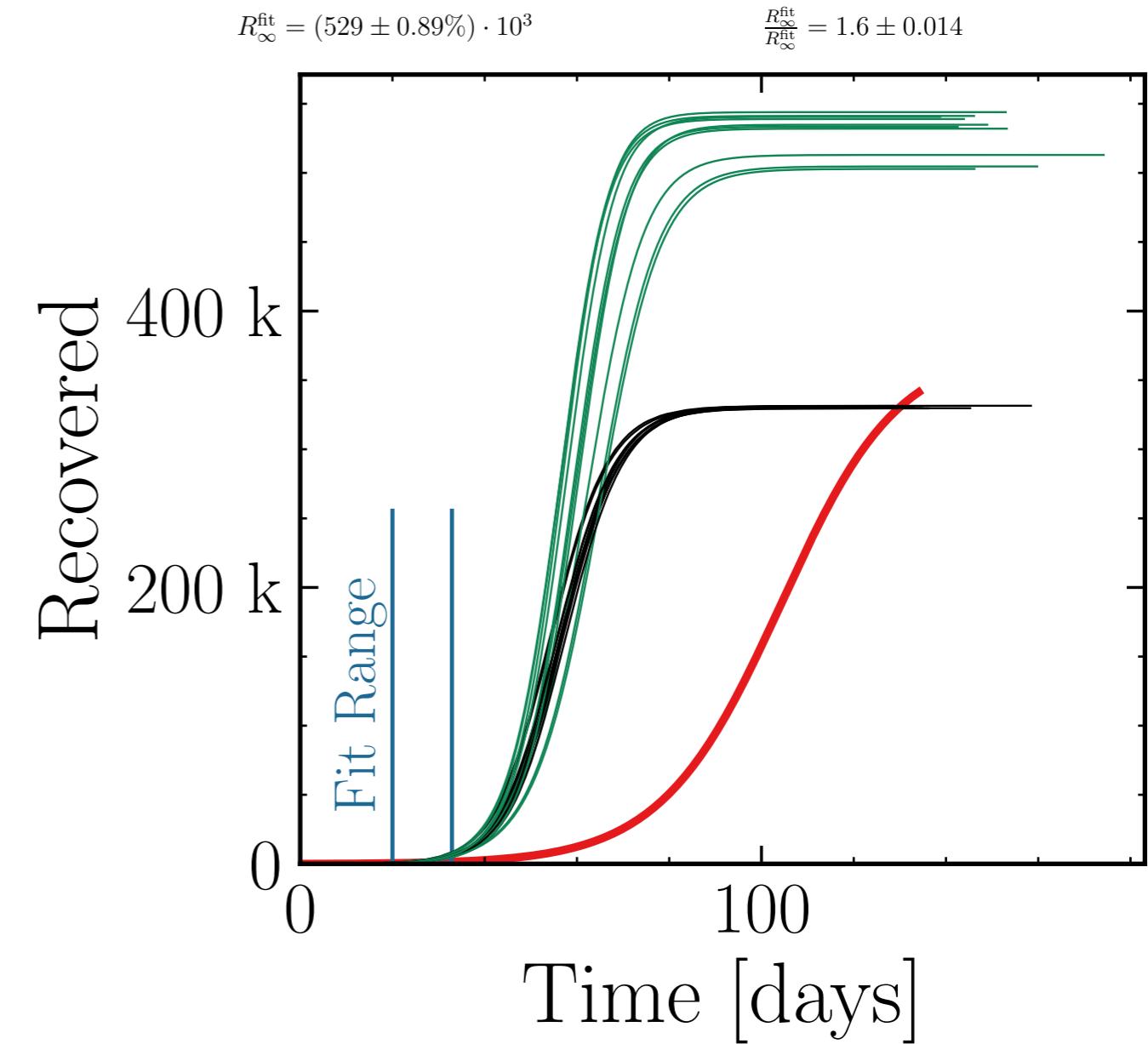
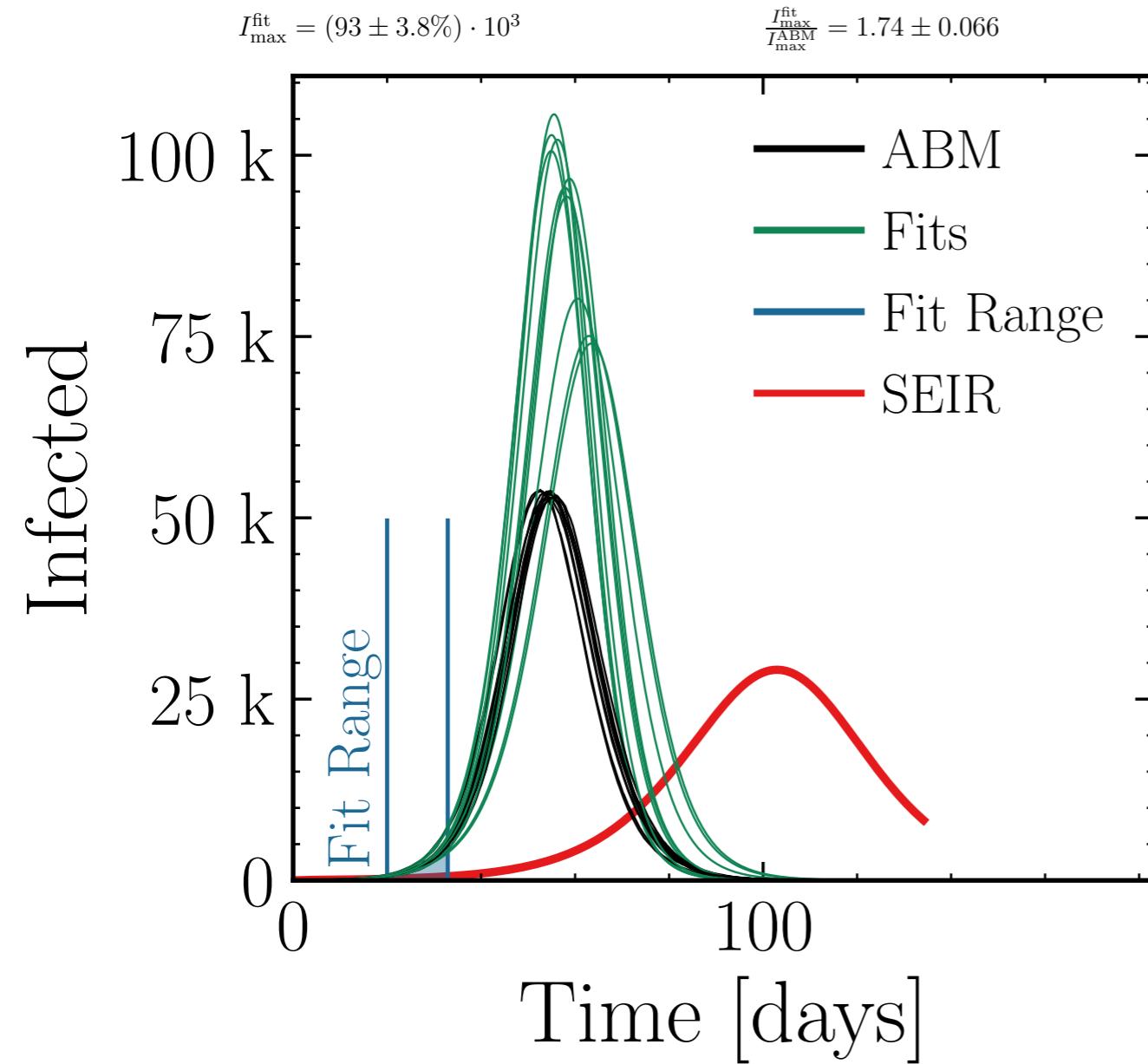
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



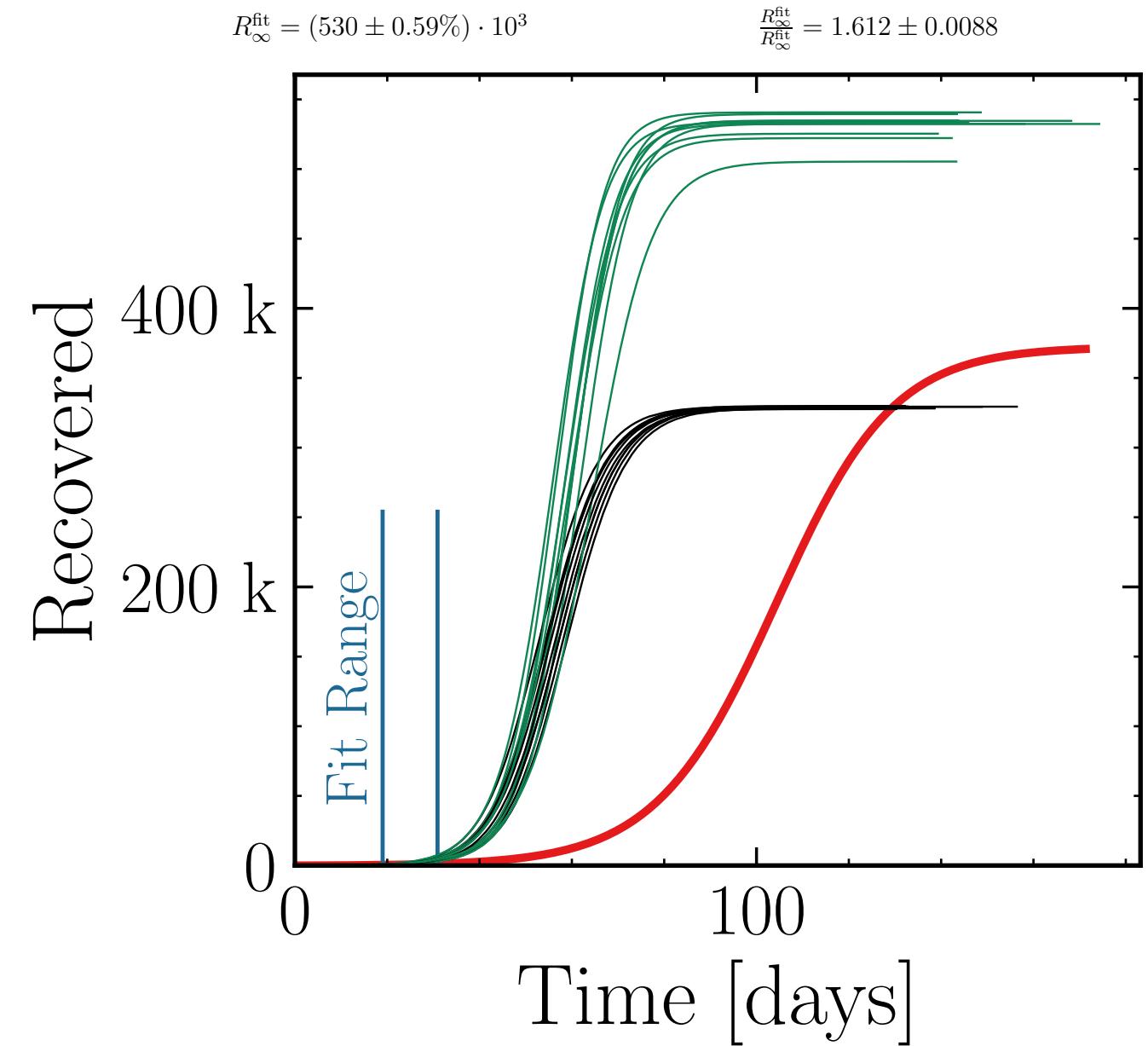
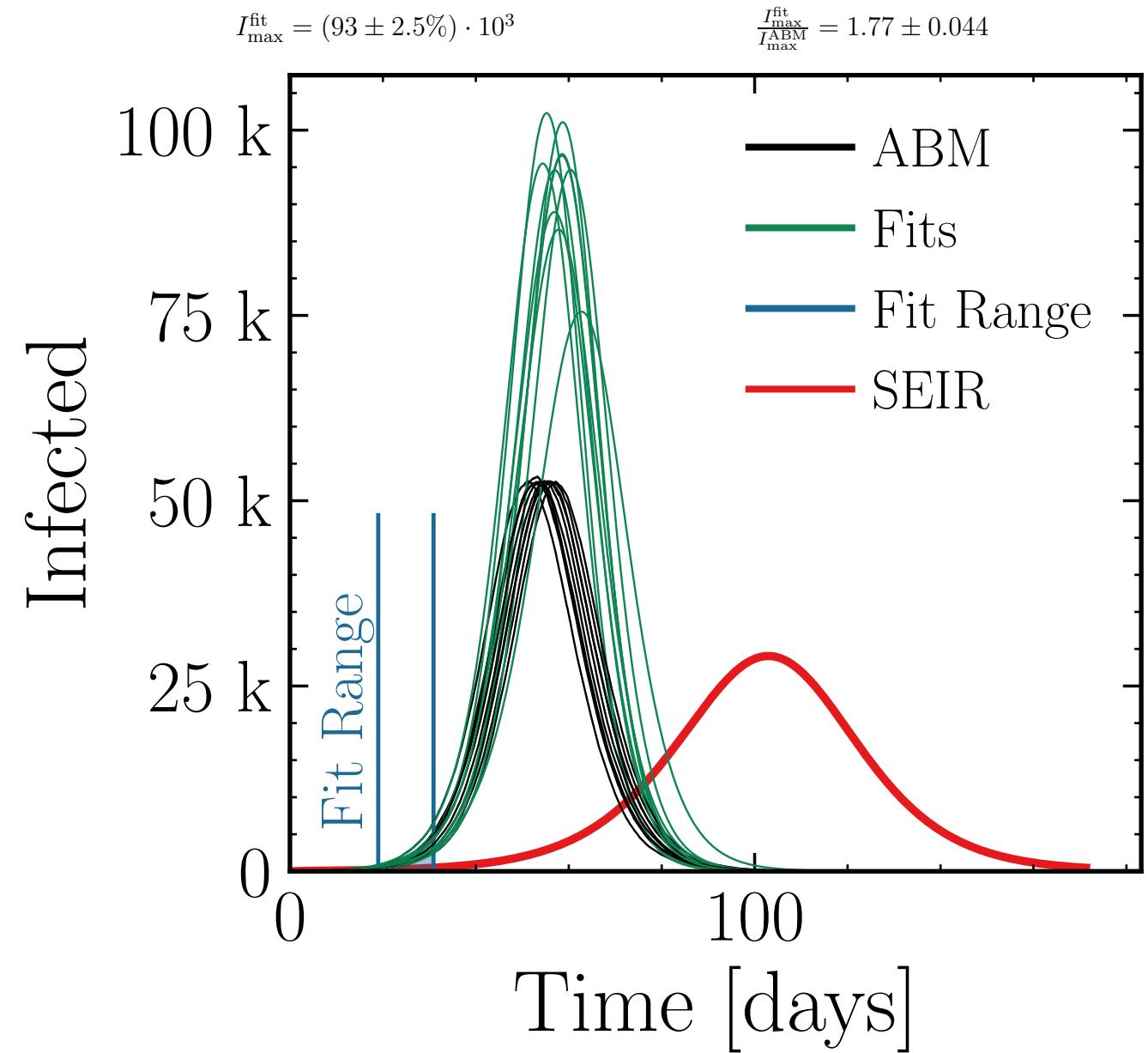
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



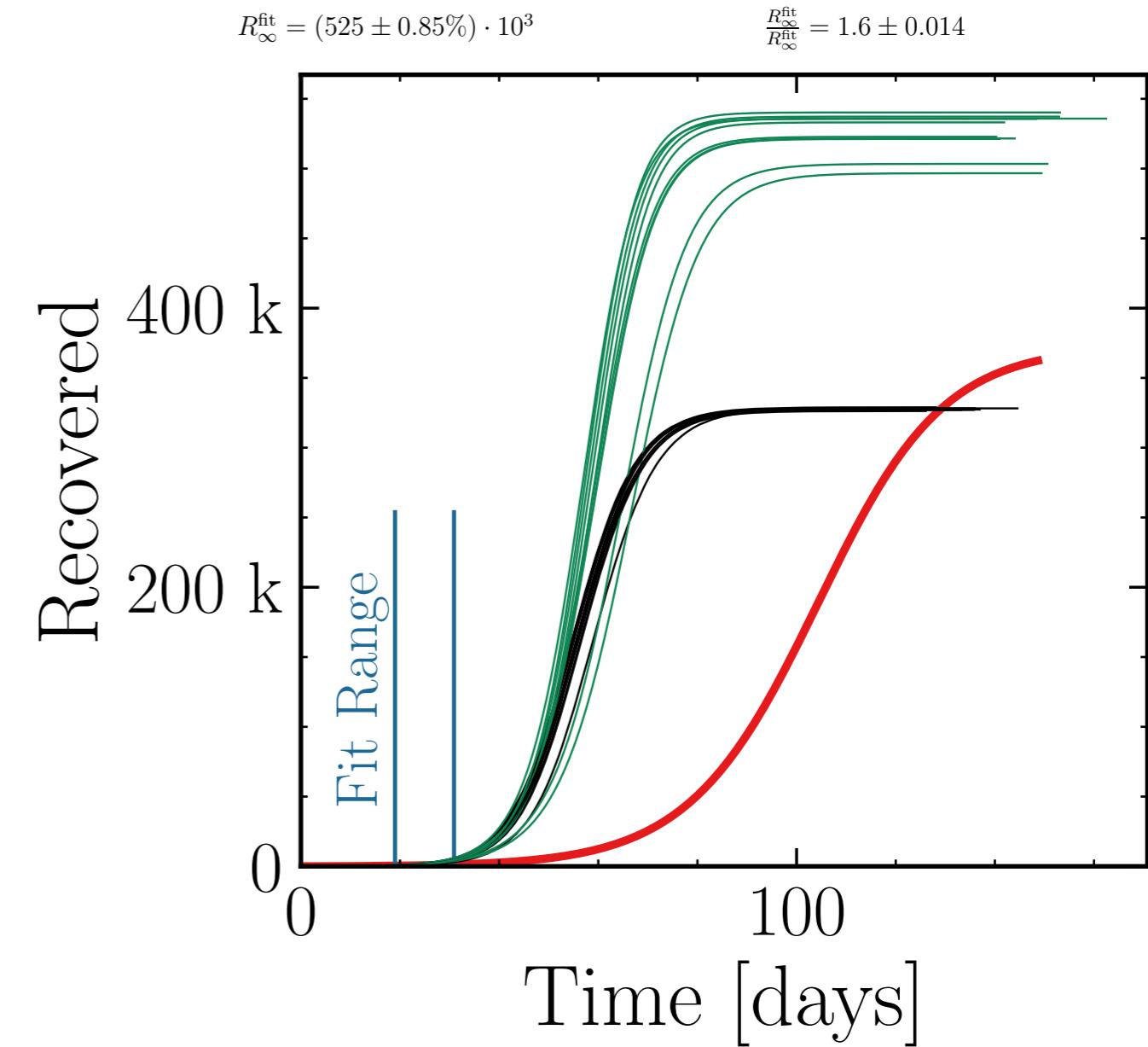
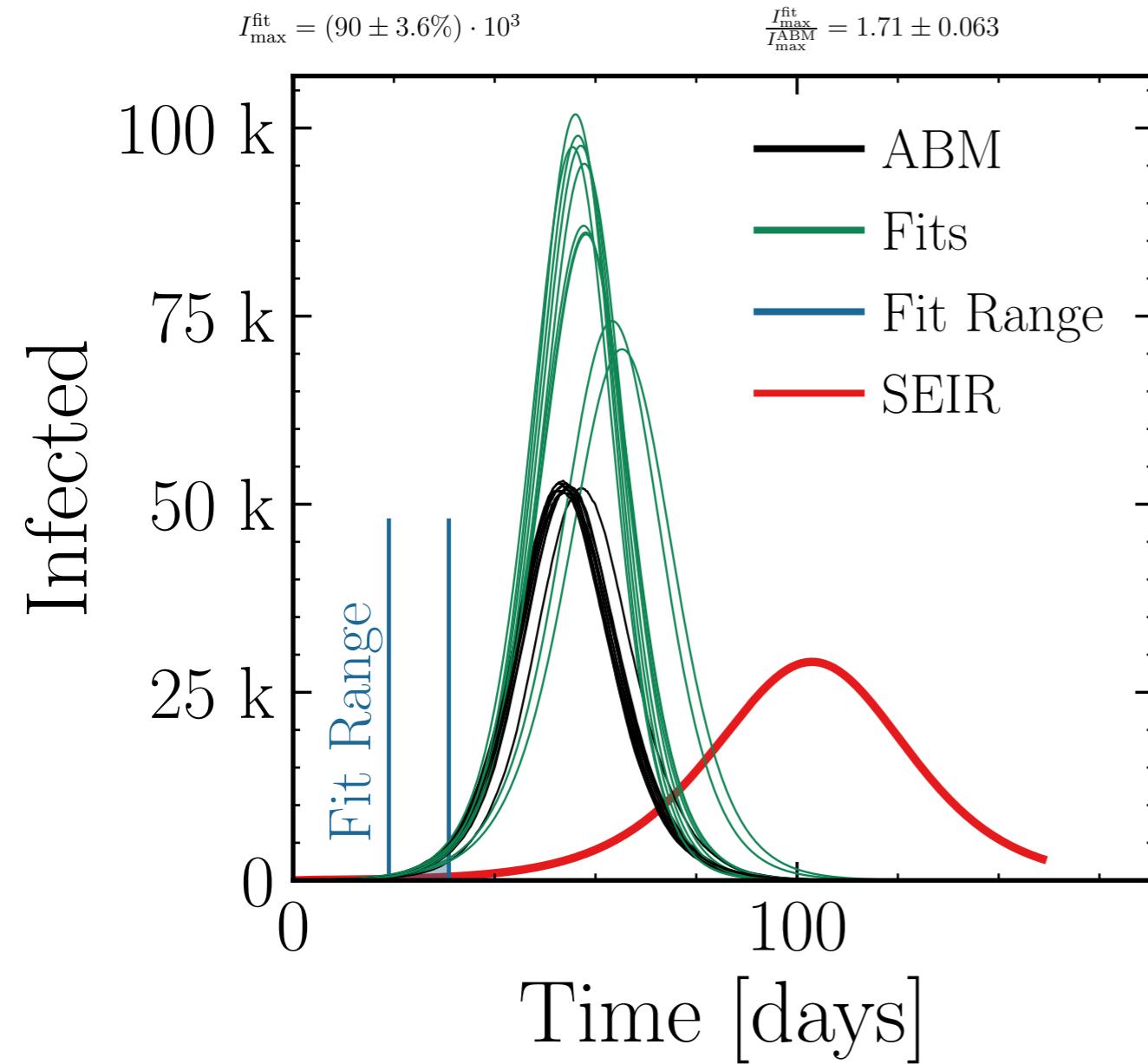
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



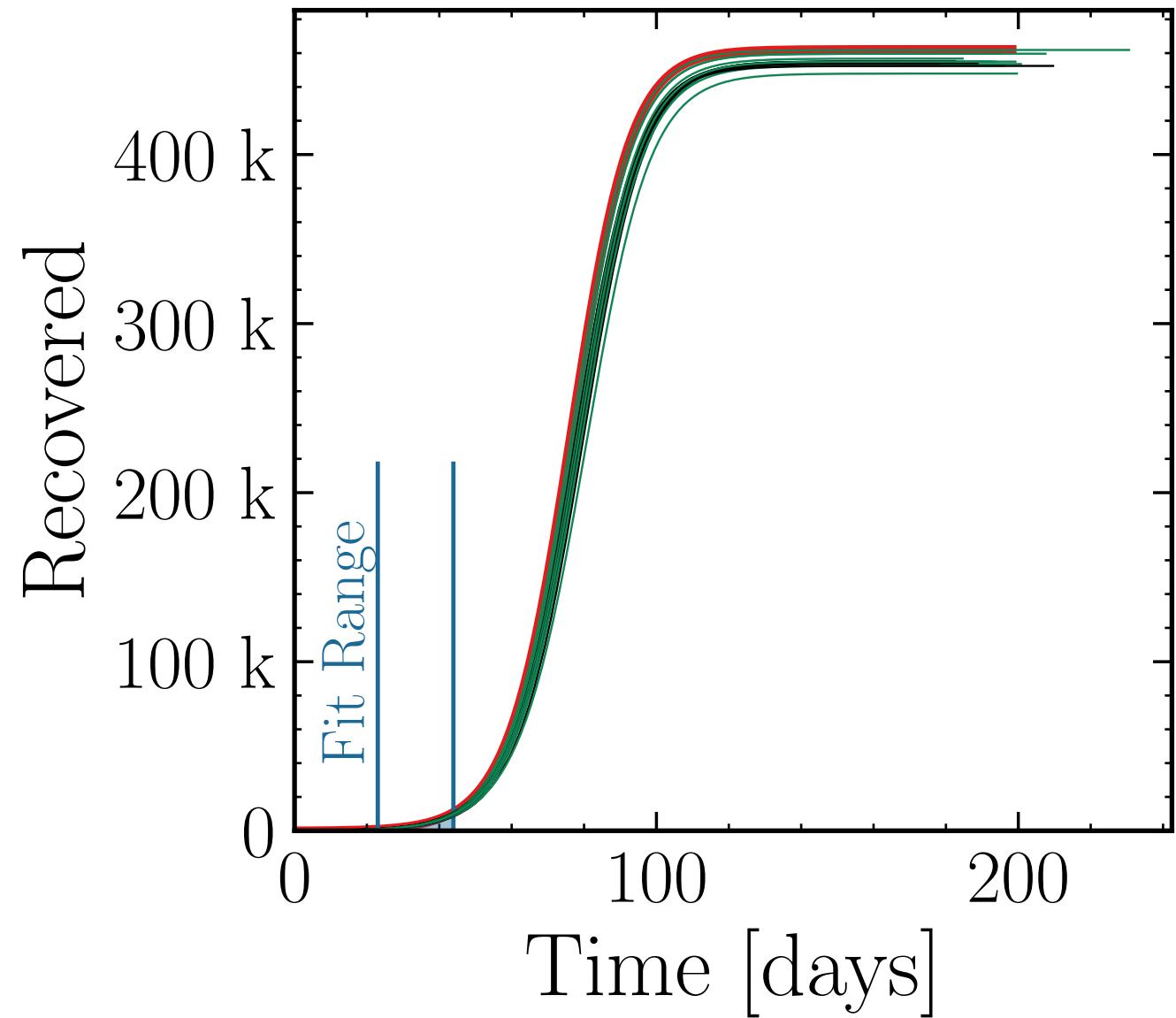
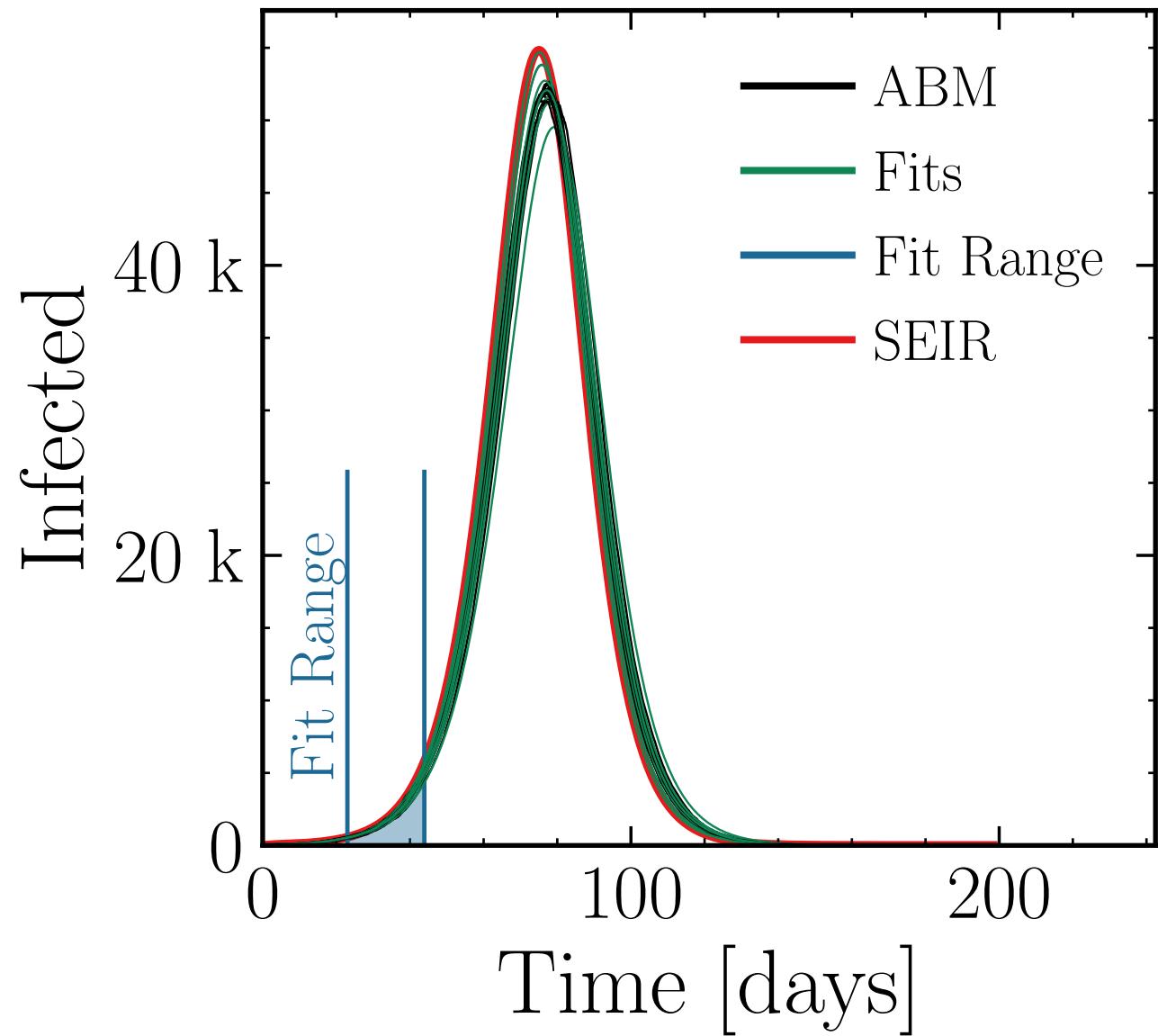
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (52.4 \pm 0.86\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (456 \pm 0.27\%) \cdot 10^3$$

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



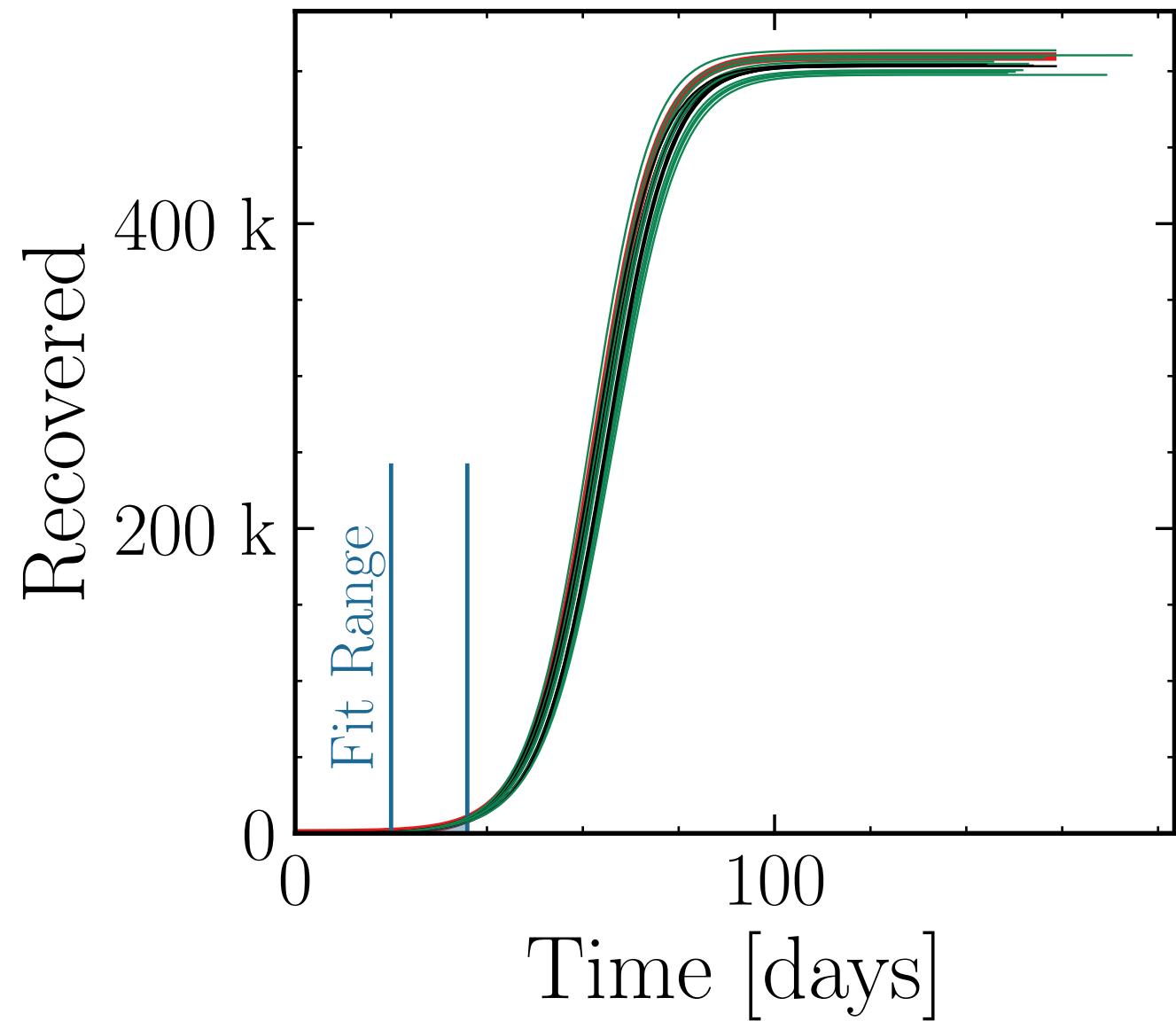
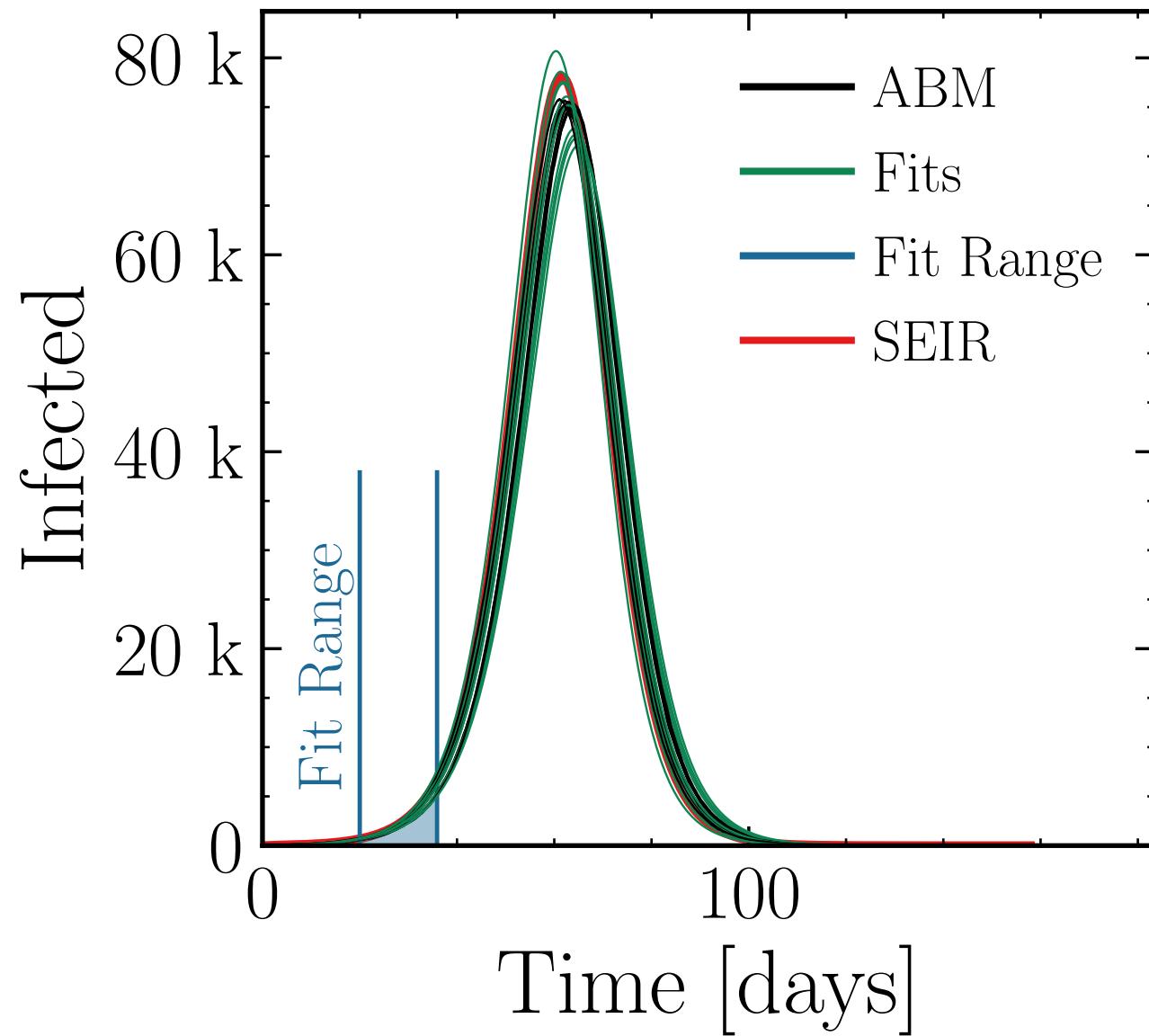
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (75.4 \pm 1.3\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (505 \pm 0.33\%) \cdot 10^3$$

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



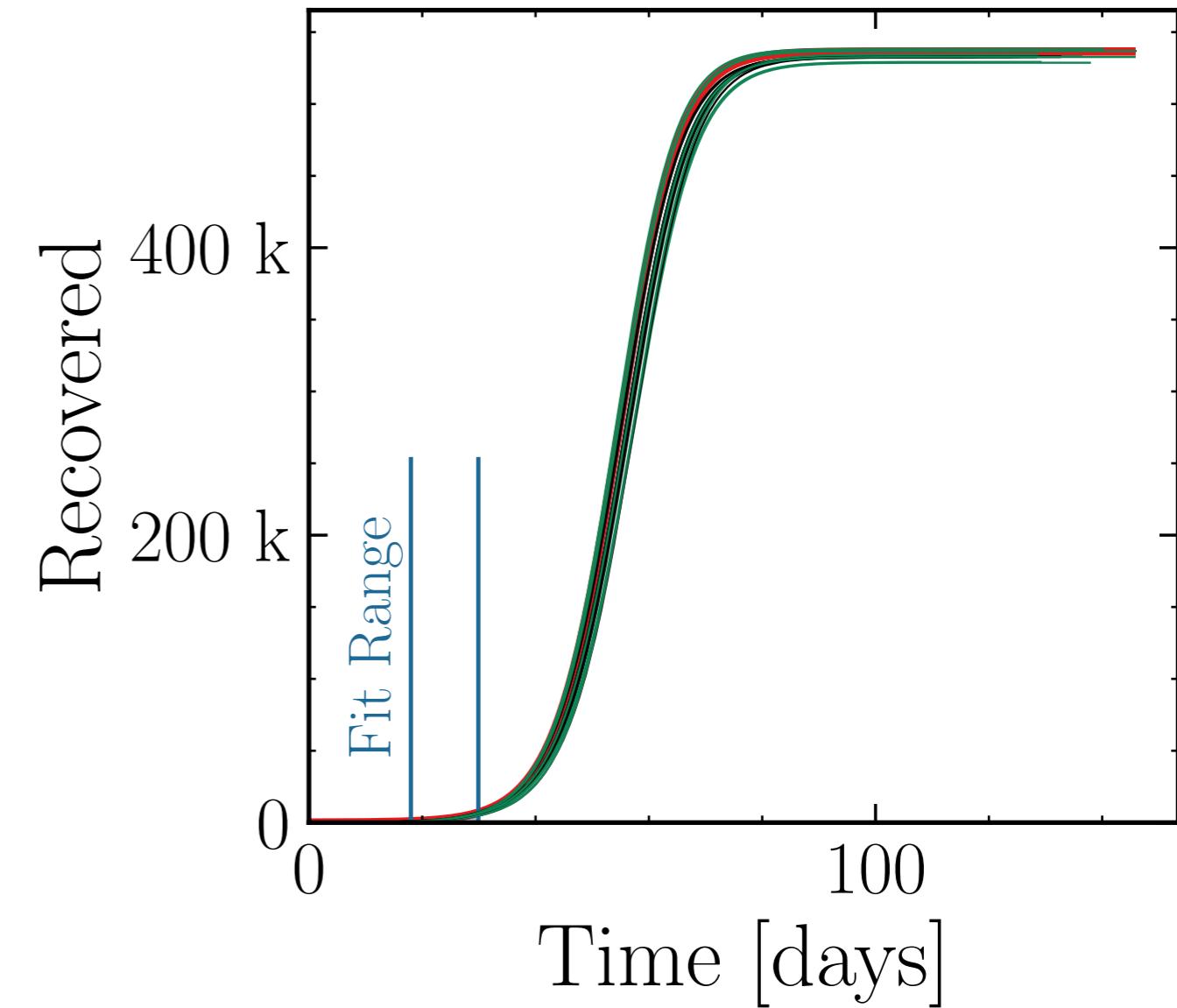
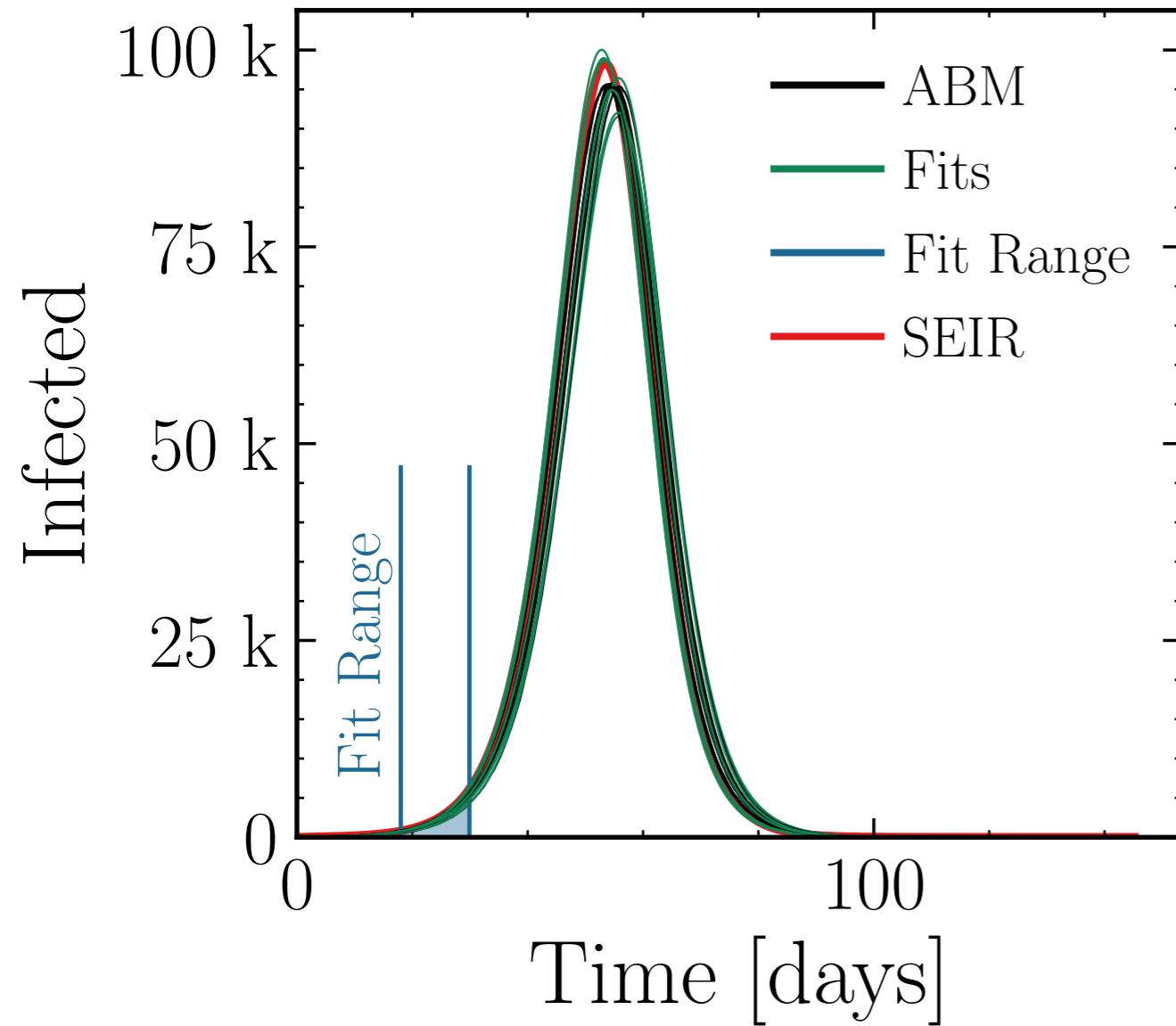
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 70.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (95.8 \pm 0.88\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.003 \pm 0.0086$$

$$R_{\infty}^{\text{fit}} = (533.6 \pm 0.18\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.002 \pm 0.0017$$



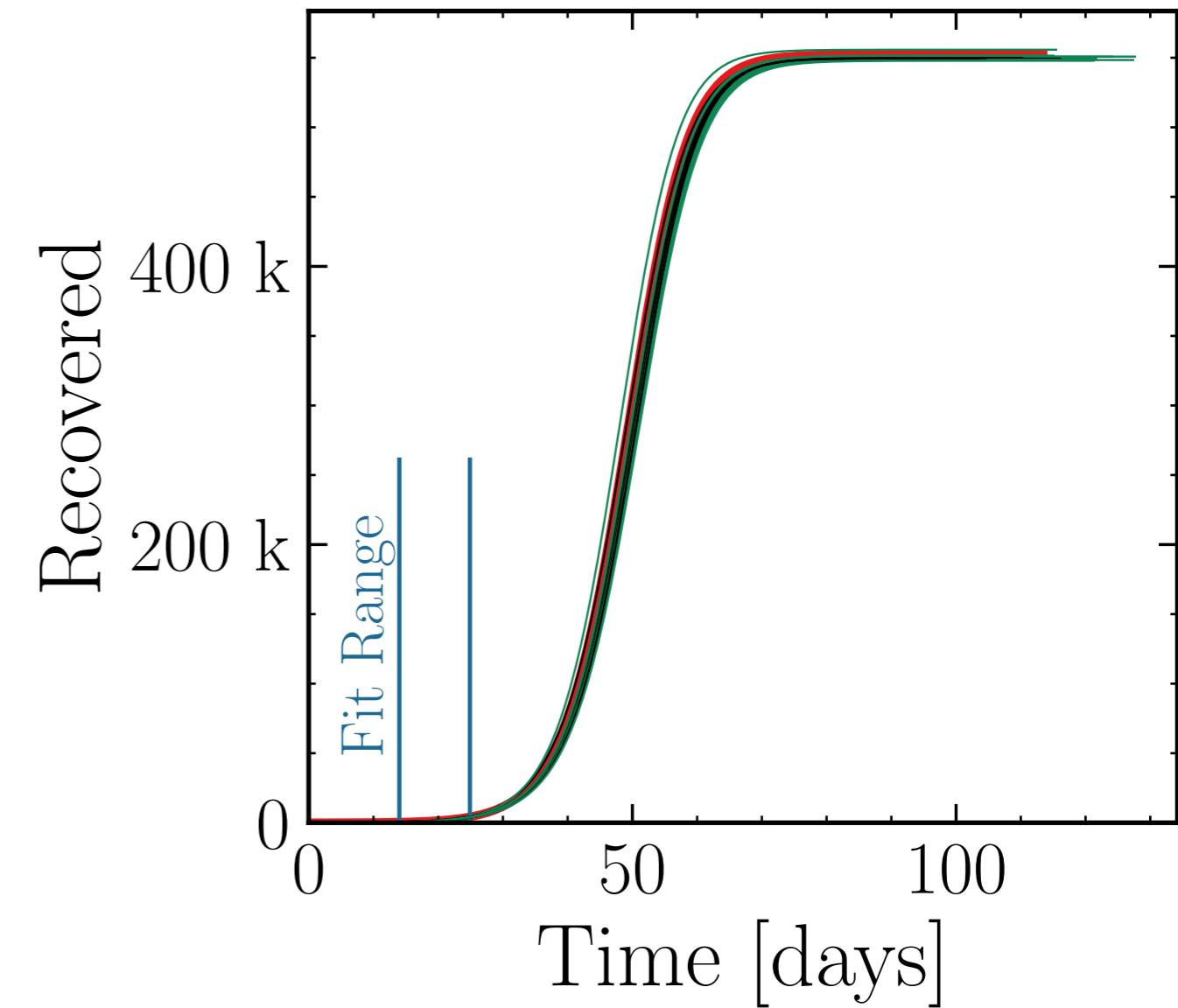
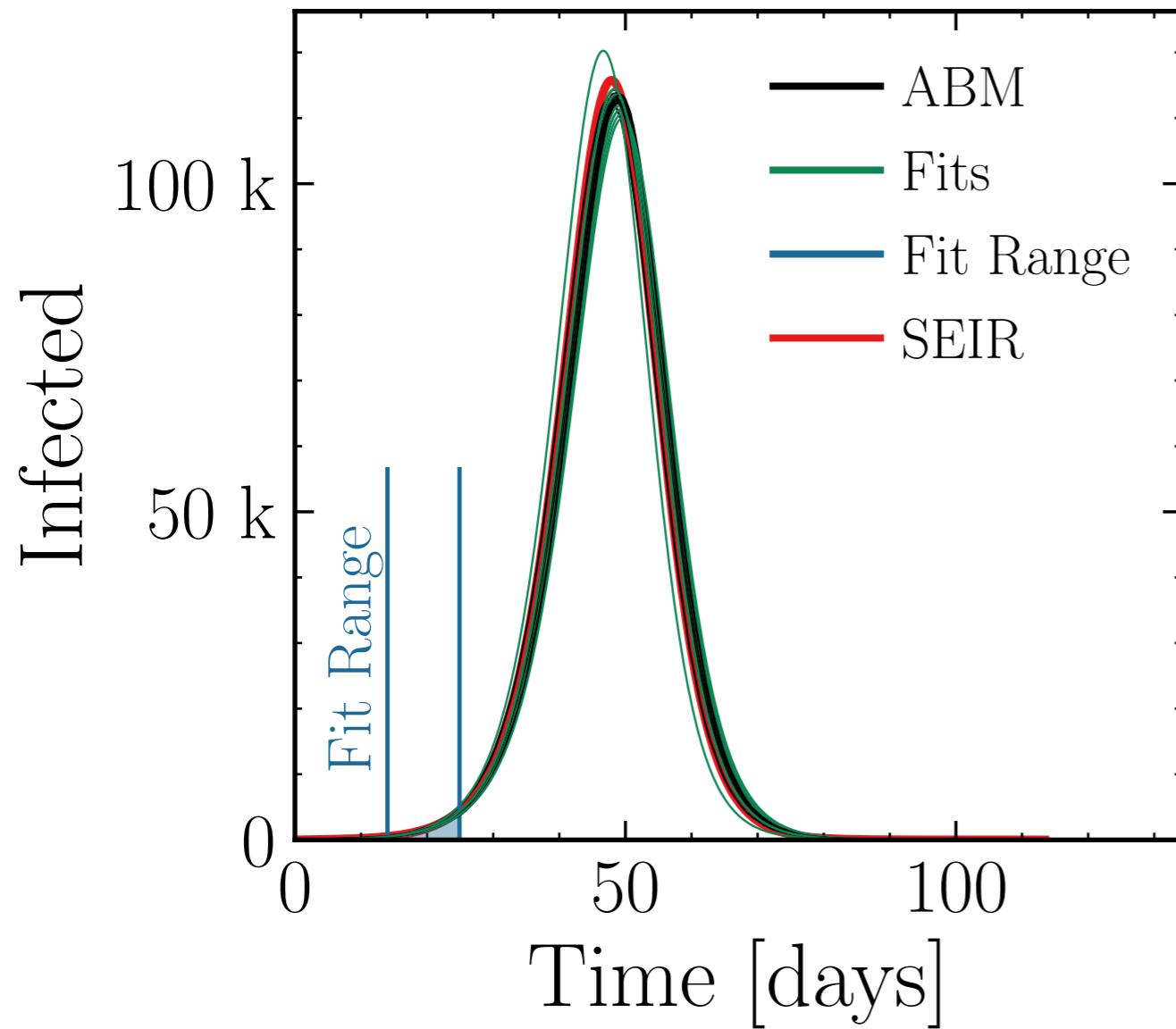
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (113.1 \pm 0.79\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (550.4 \pm 0.13\%) \cdot 10^3$$

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



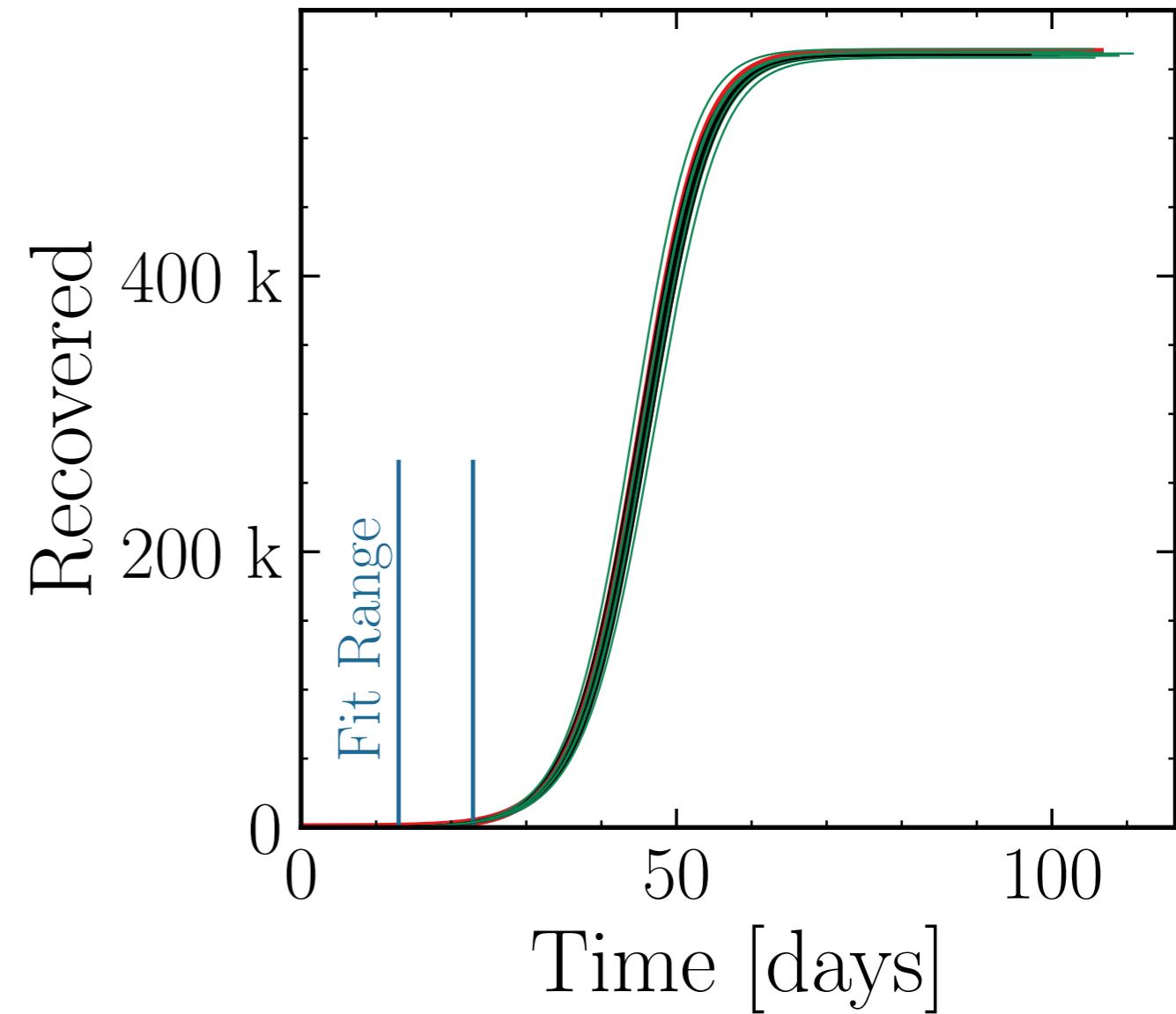
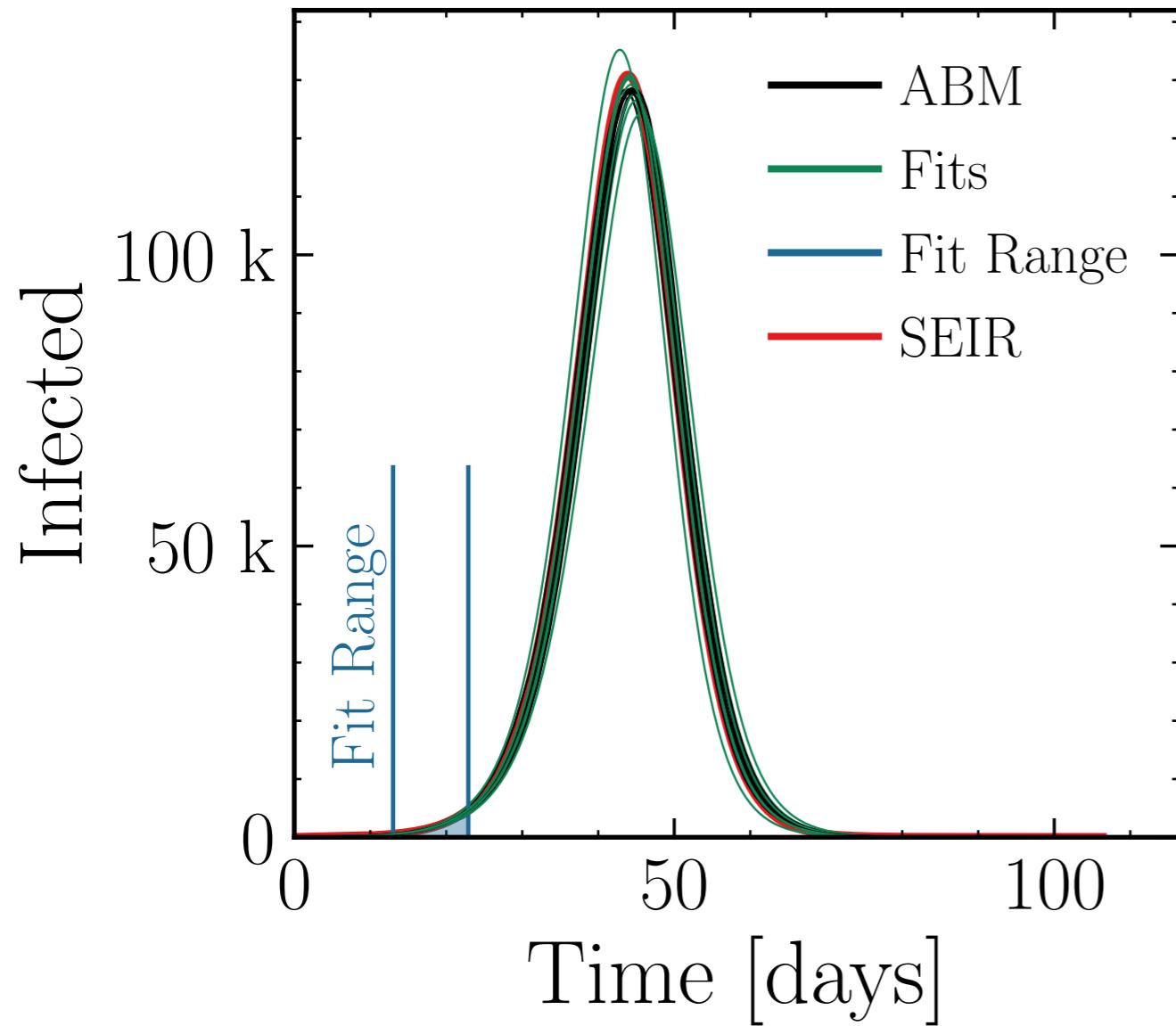
$N_{\text{tot}} = 580K$ ,  $\rho = 0.0$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 90.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (129.5 \pm 0.68\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 1.01 \pm 0.0068$$

$$R_{\infty}^{\text{fit}} = (561.5 \pm 0.091\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.002 \pm 0.00085$$



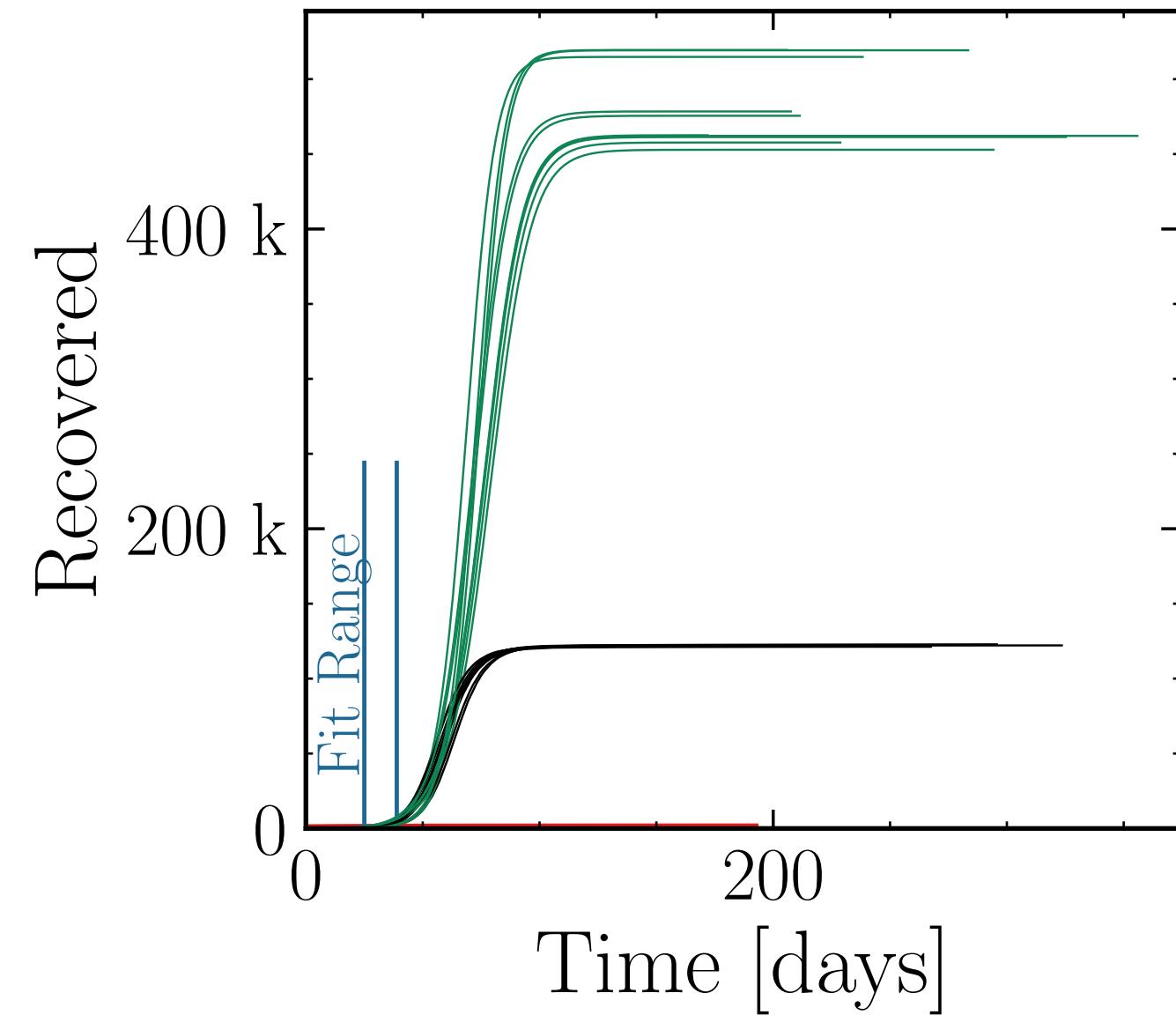
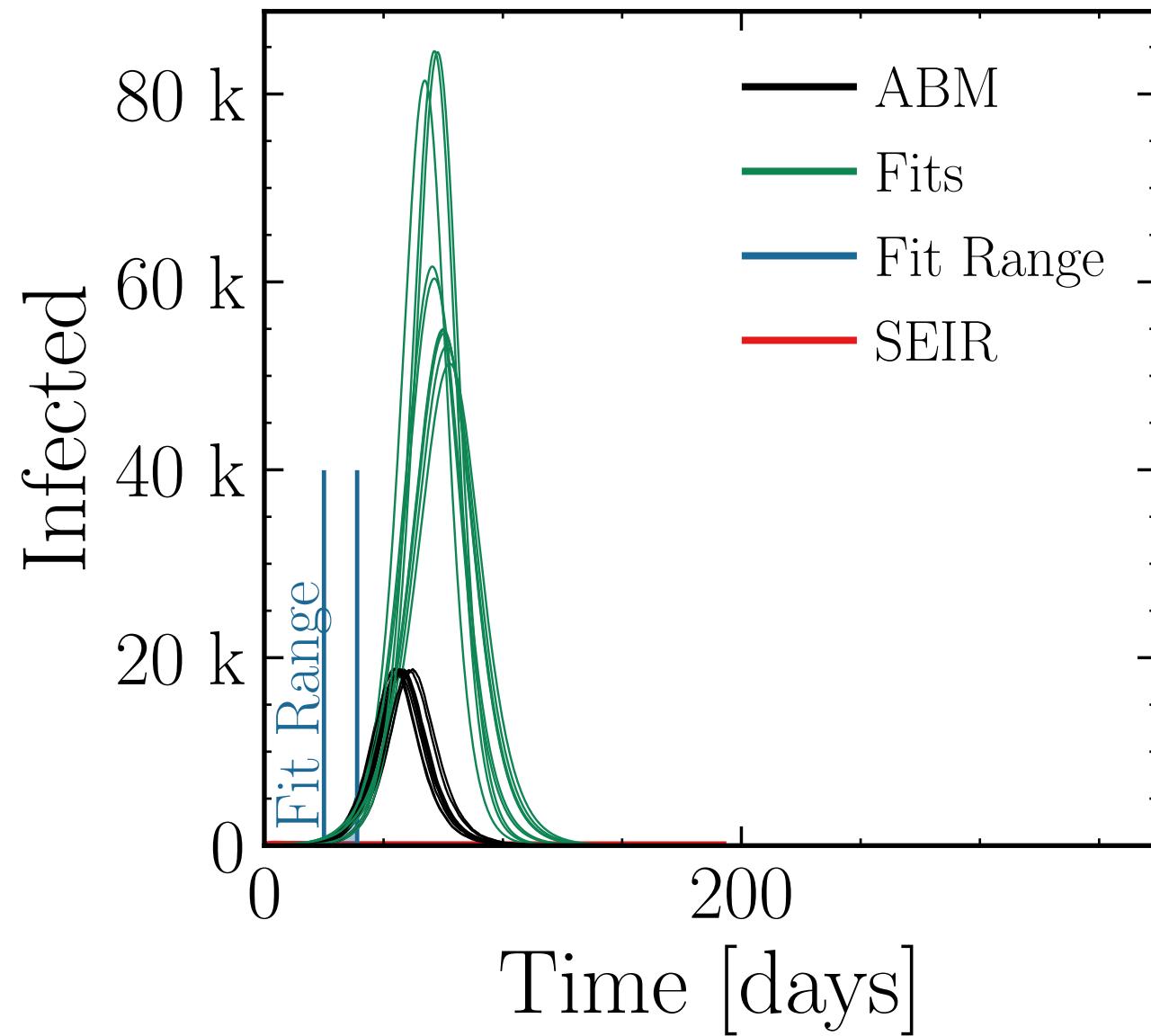
$N_{\text{tot}} = 580K$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (64 \pm 6.4\%) \cdot 10^3$$

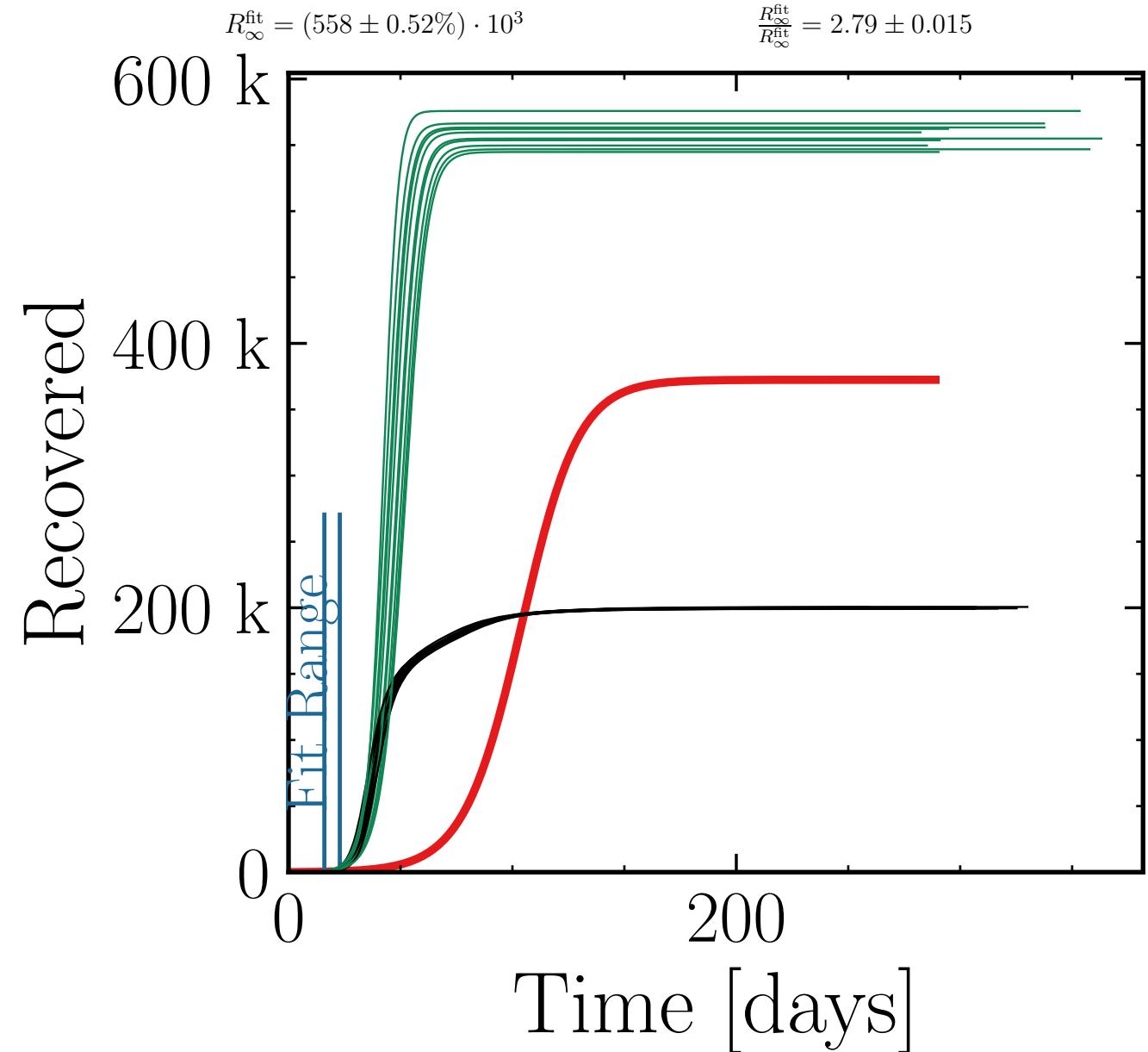
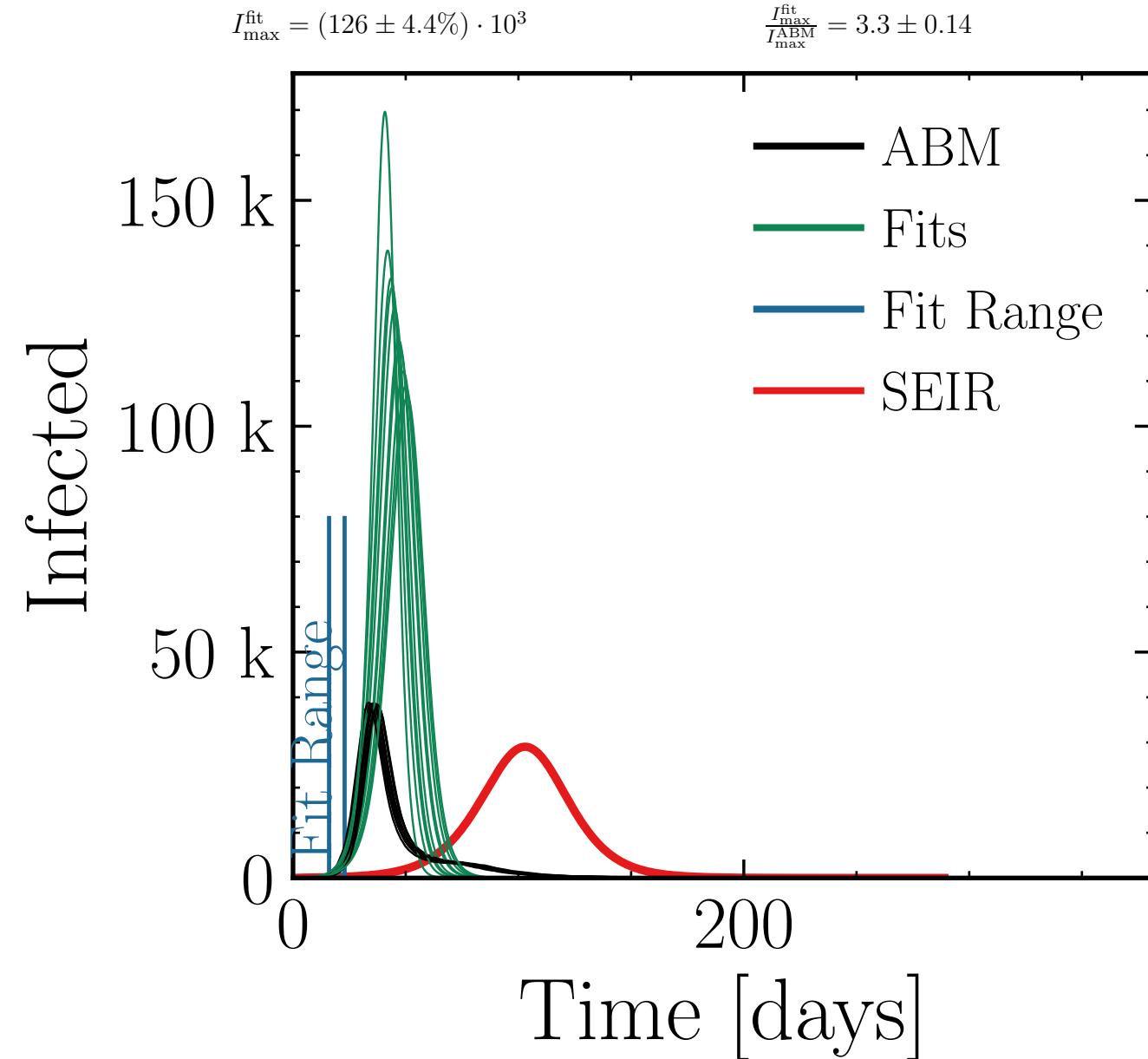
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 3.4 \pm 0.22$$

$$R_{\infty}^{\text{fit}} = (480 \pm 1.7\%) \cdot 10^3$$

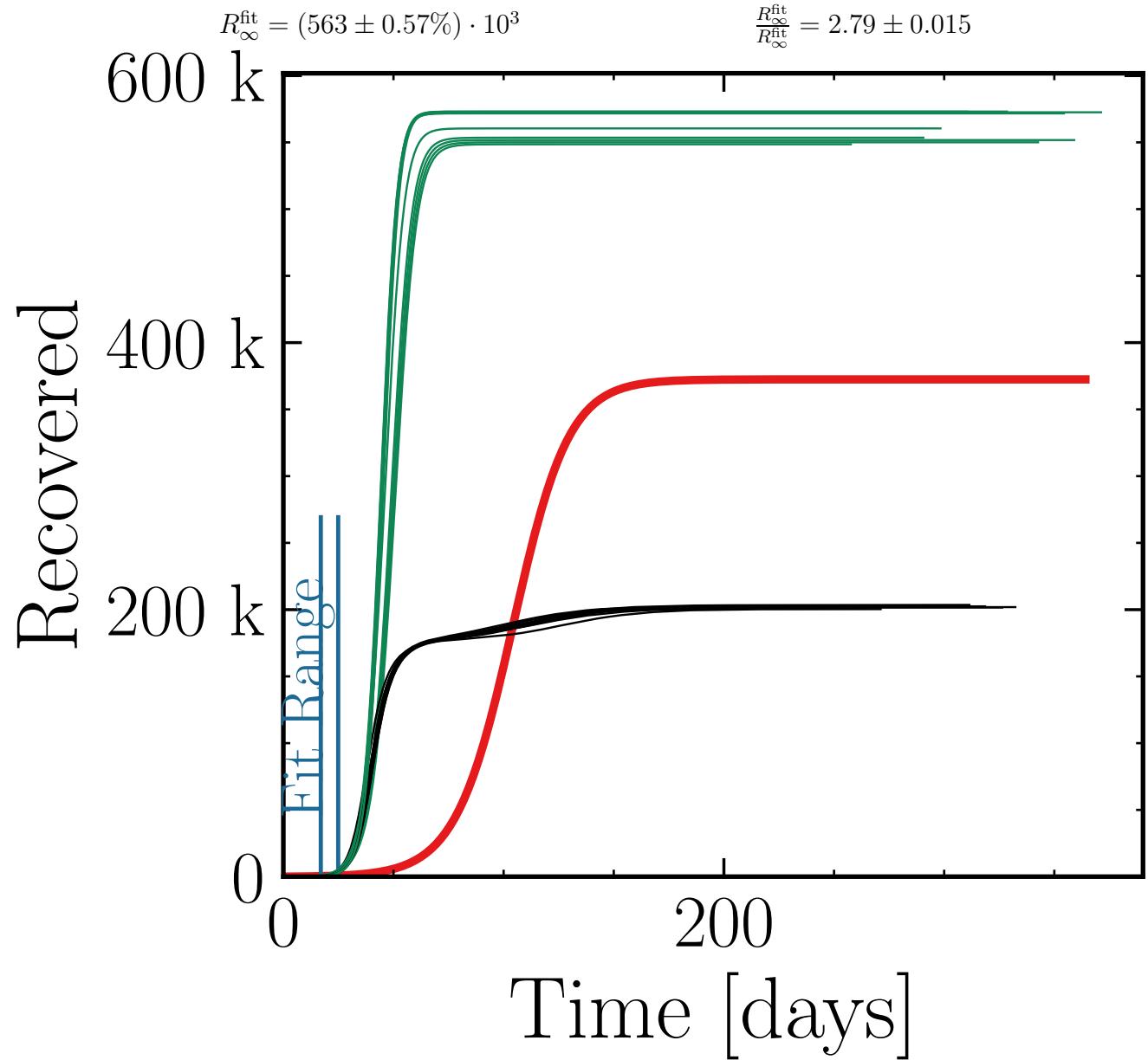
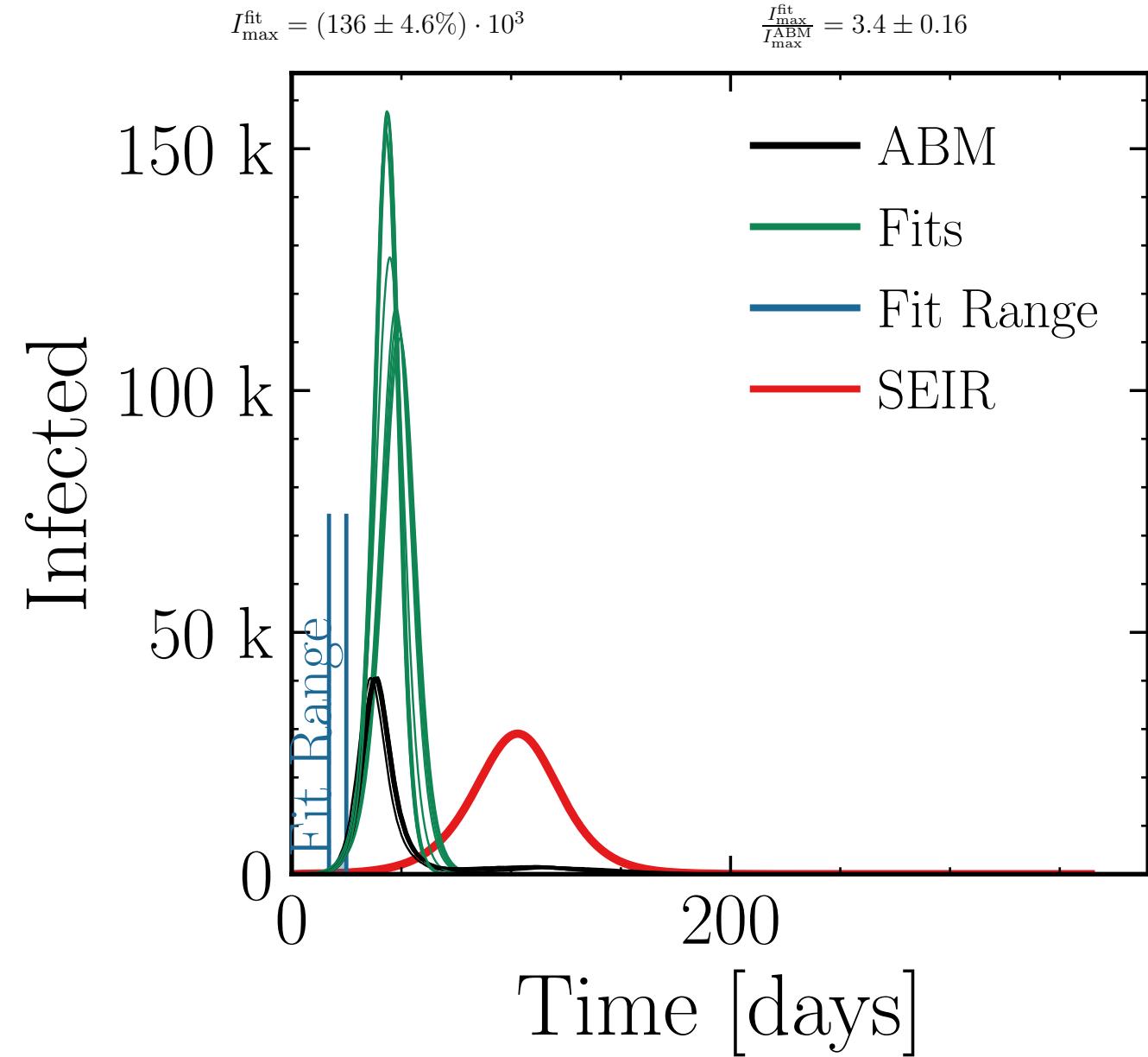
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.94 \pm 0.065$$



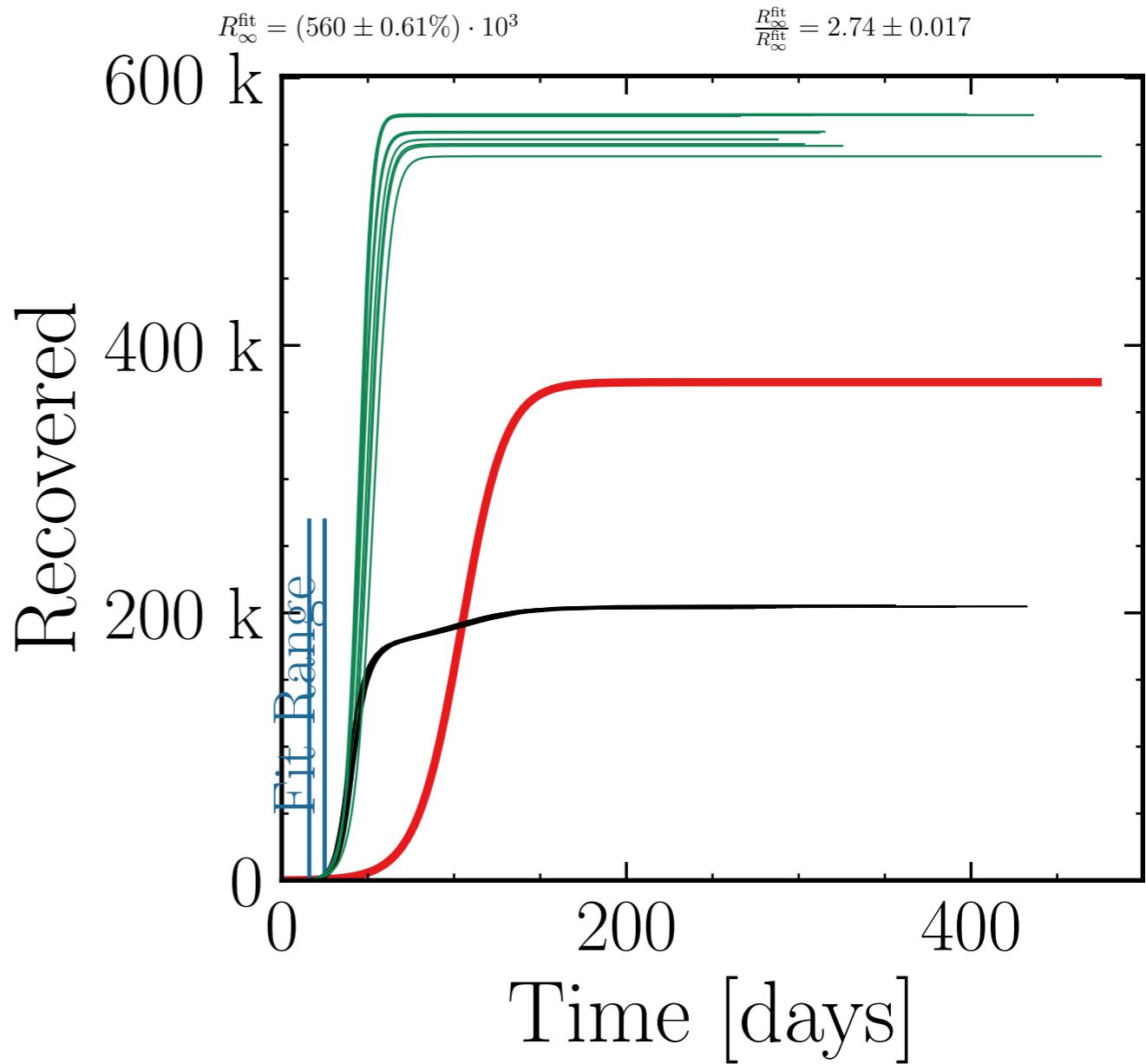
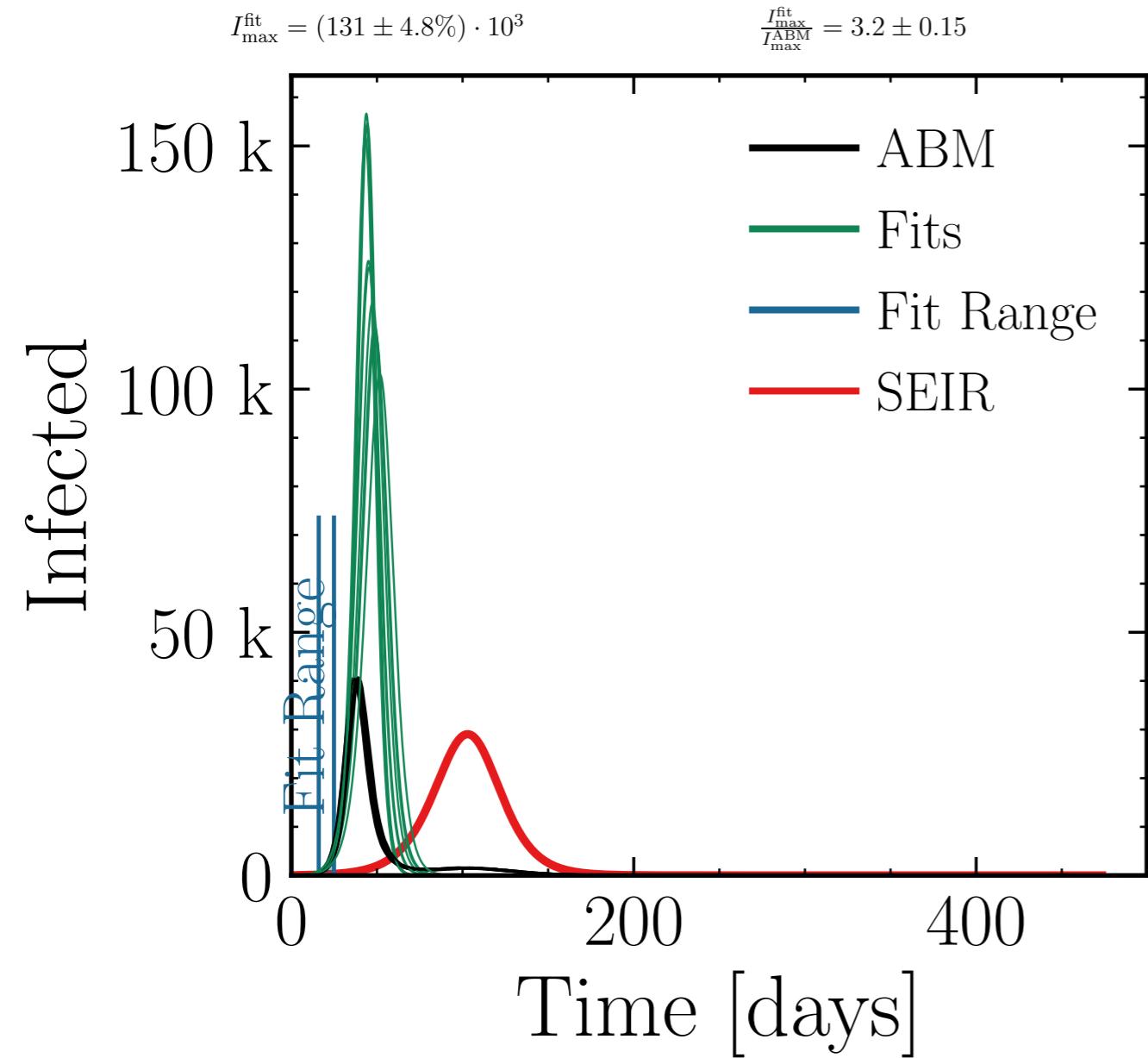
$N_{\text{tot}} = 580K$ ,  $\rho = 0.15$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



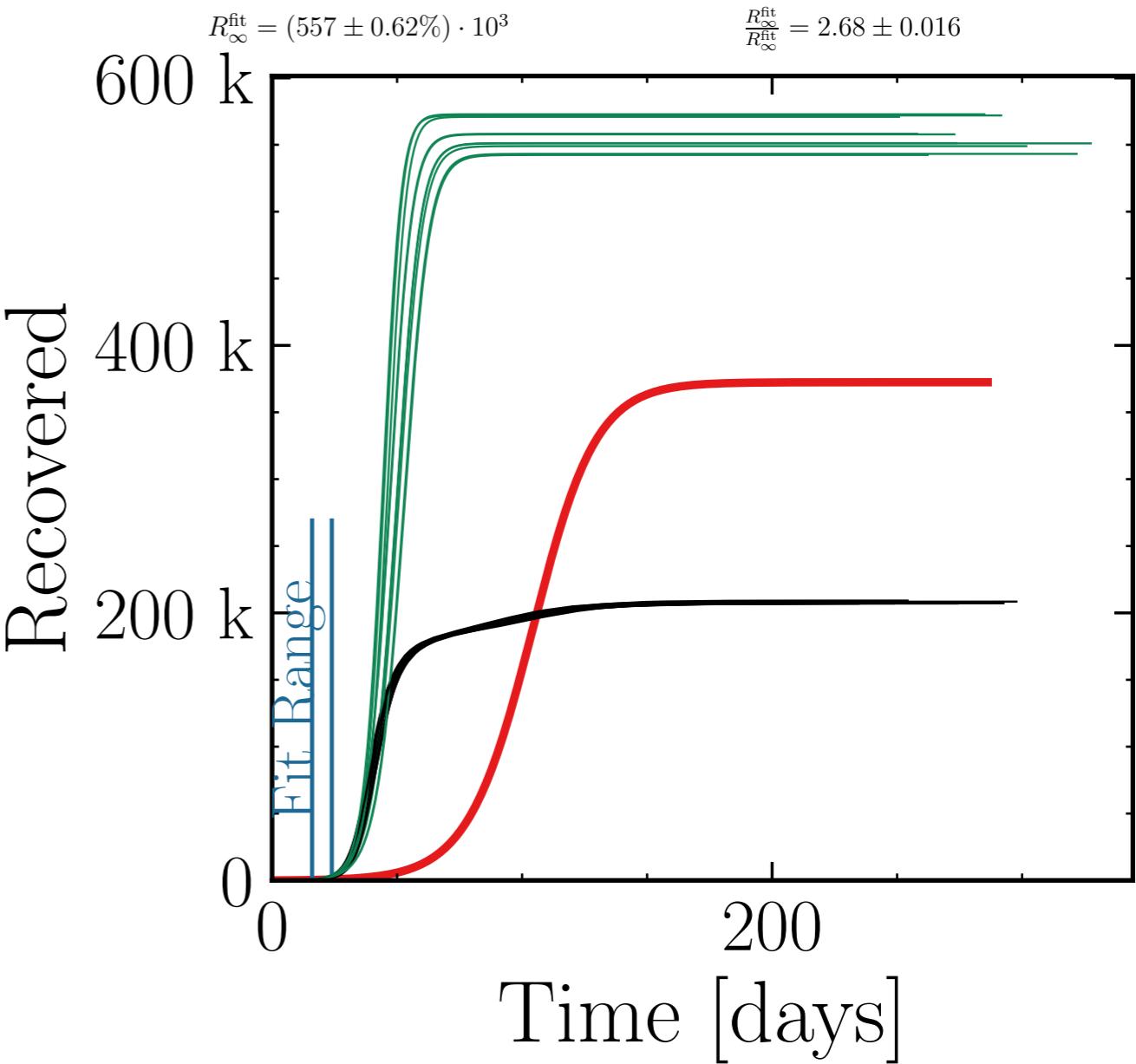
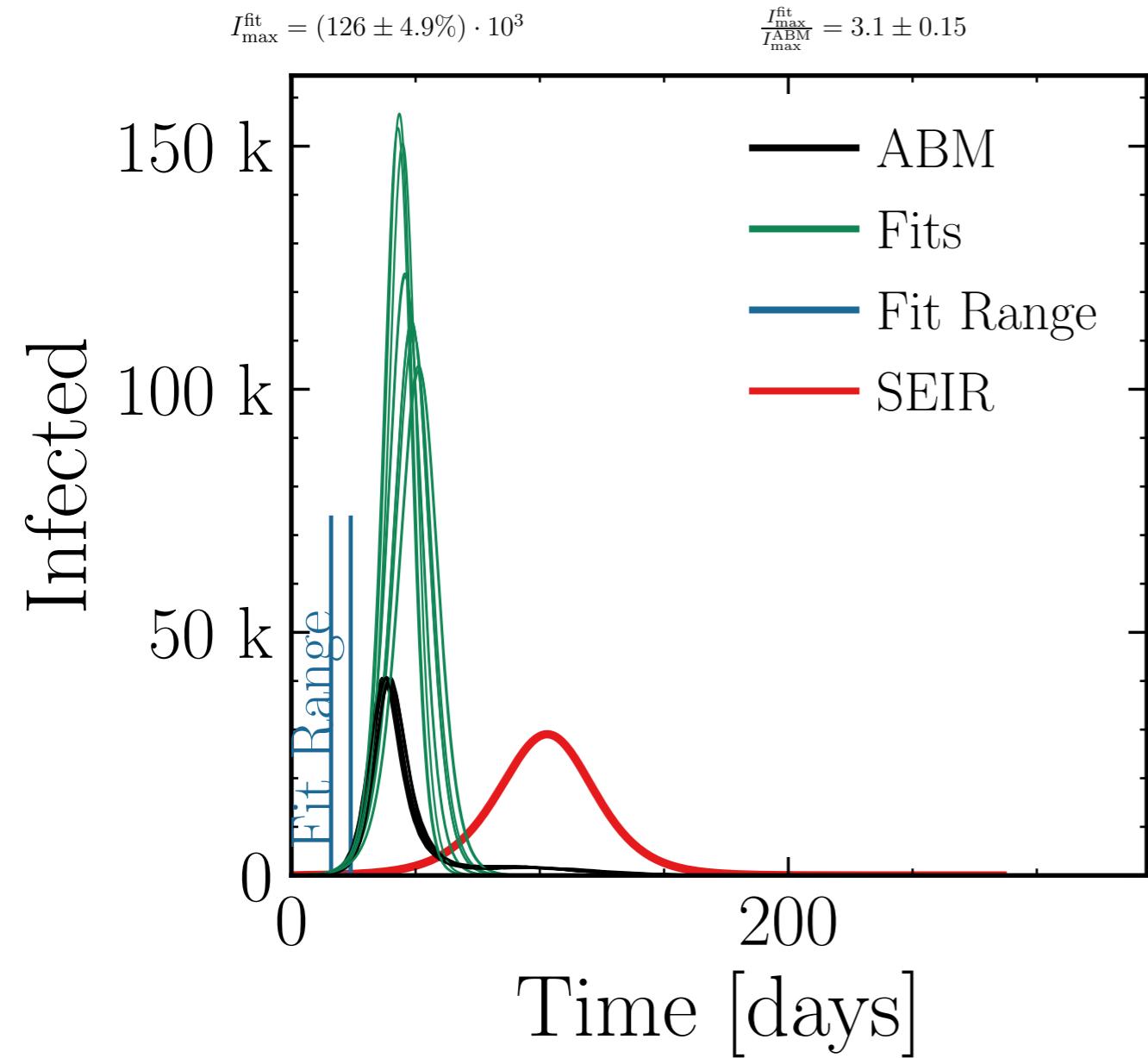
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.005$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



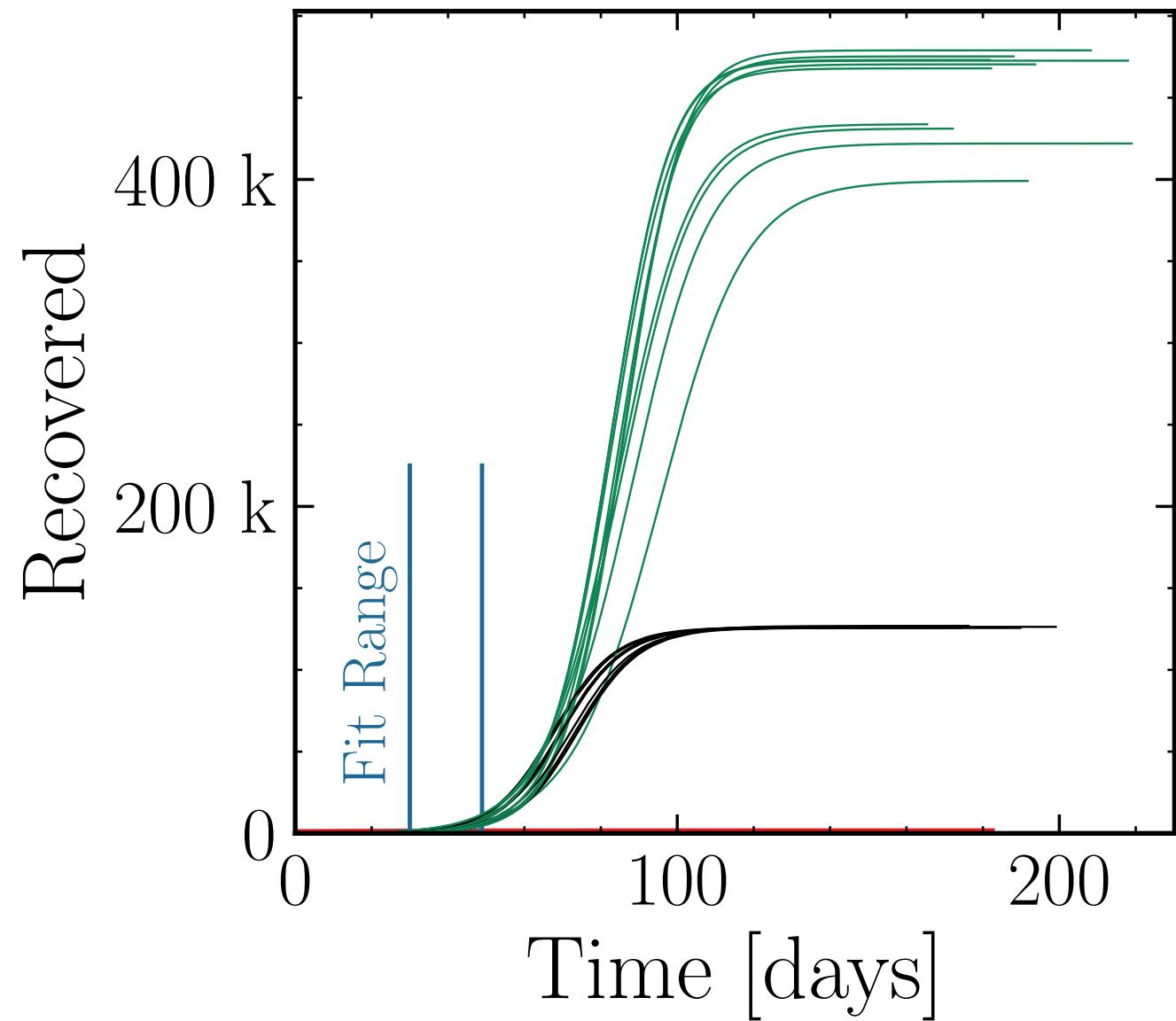
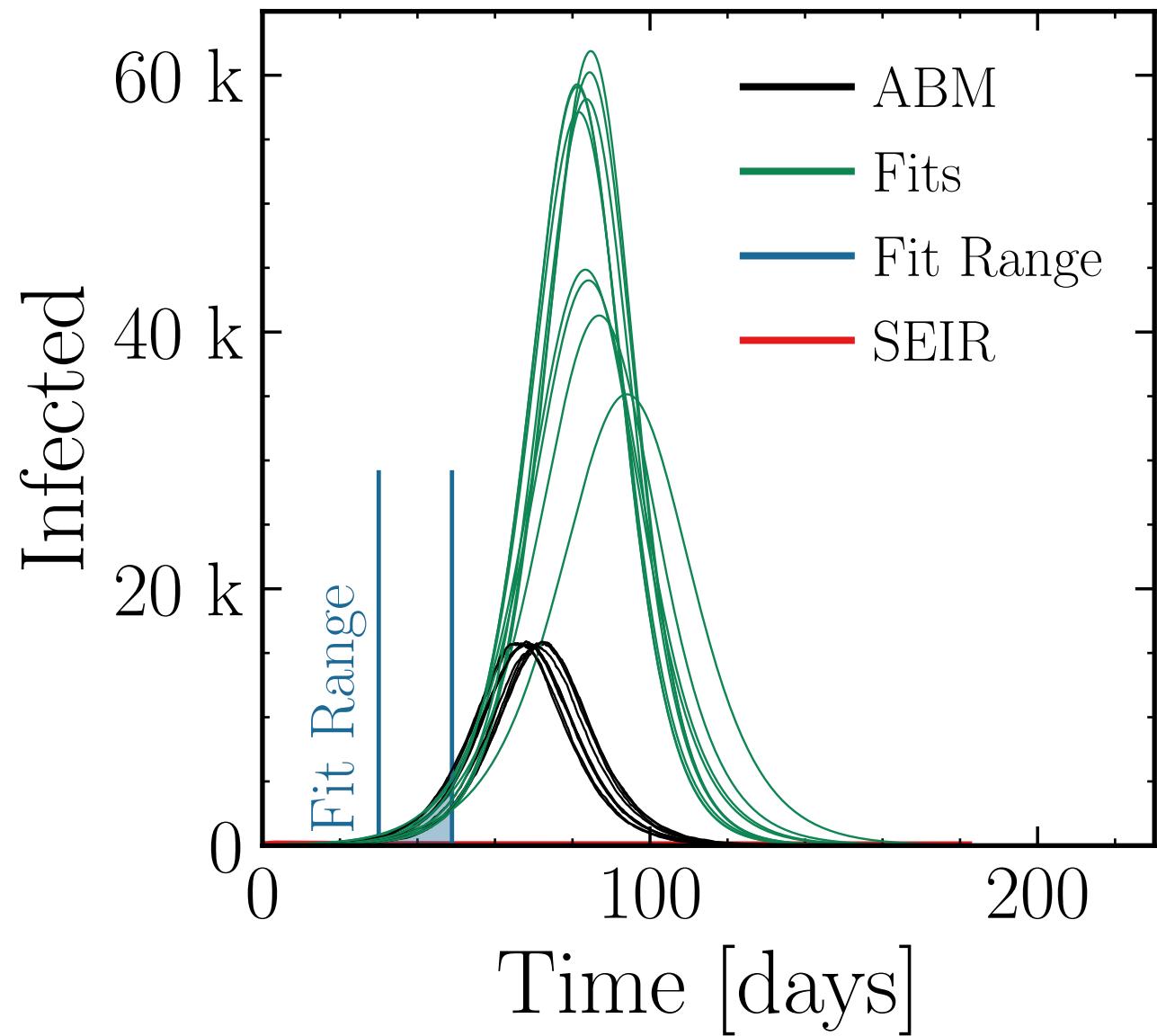
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (52 \pm 5.6\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (452 \pm 1.9\%) \cdot 10^3$$

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



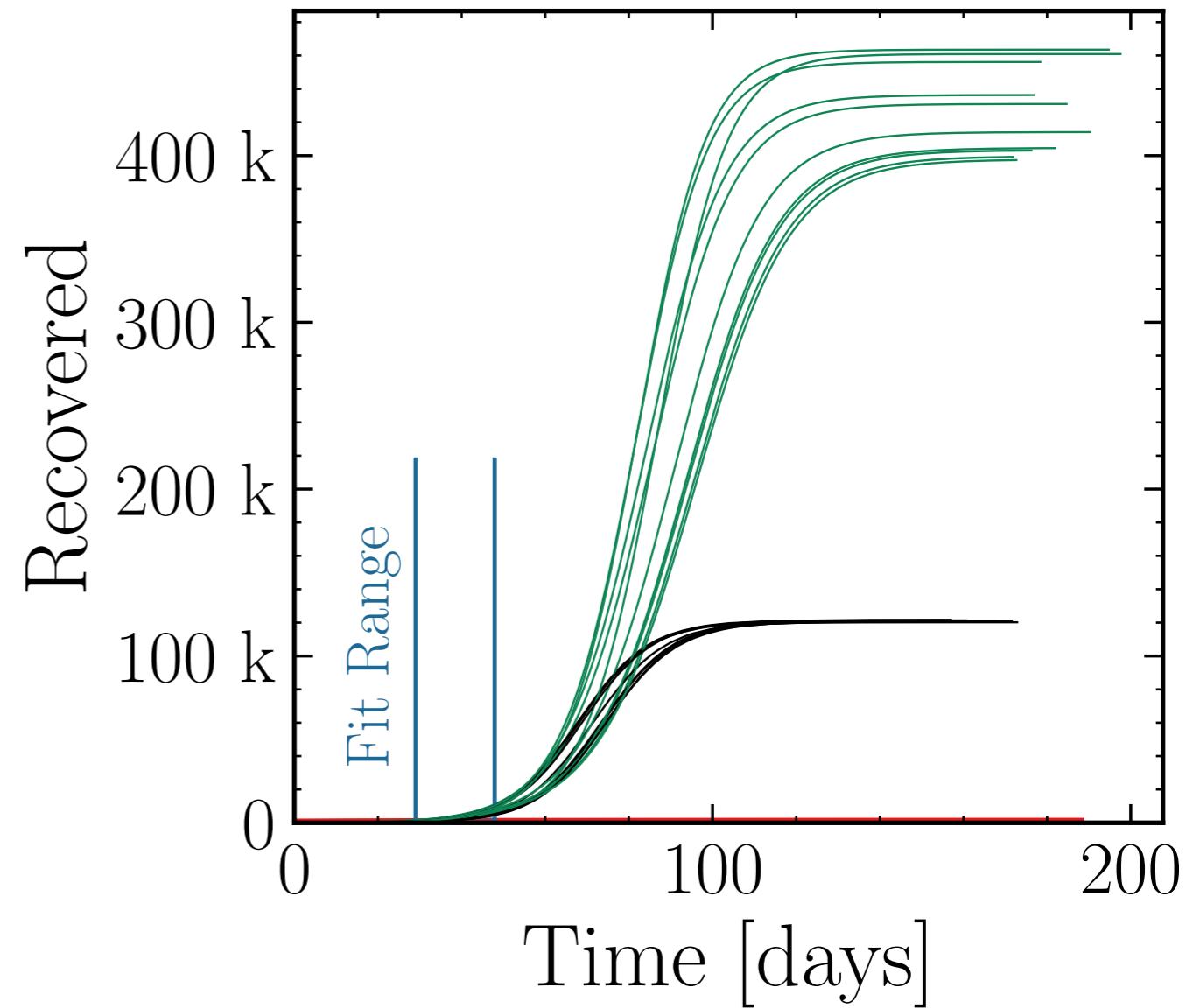
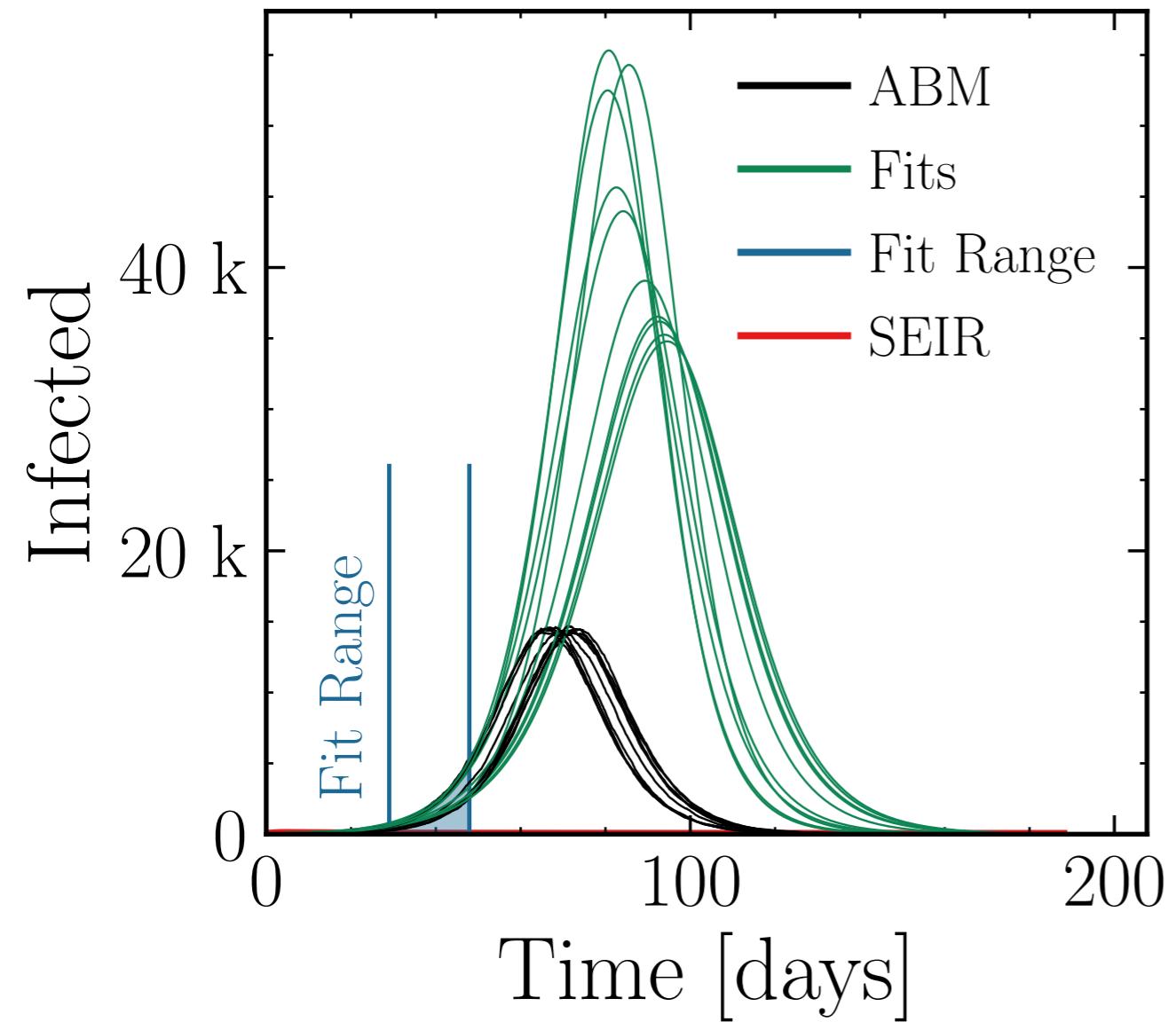
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (43 \pm 5.7\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (427 \pm 1.9\%) \cdot 10^3$$

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



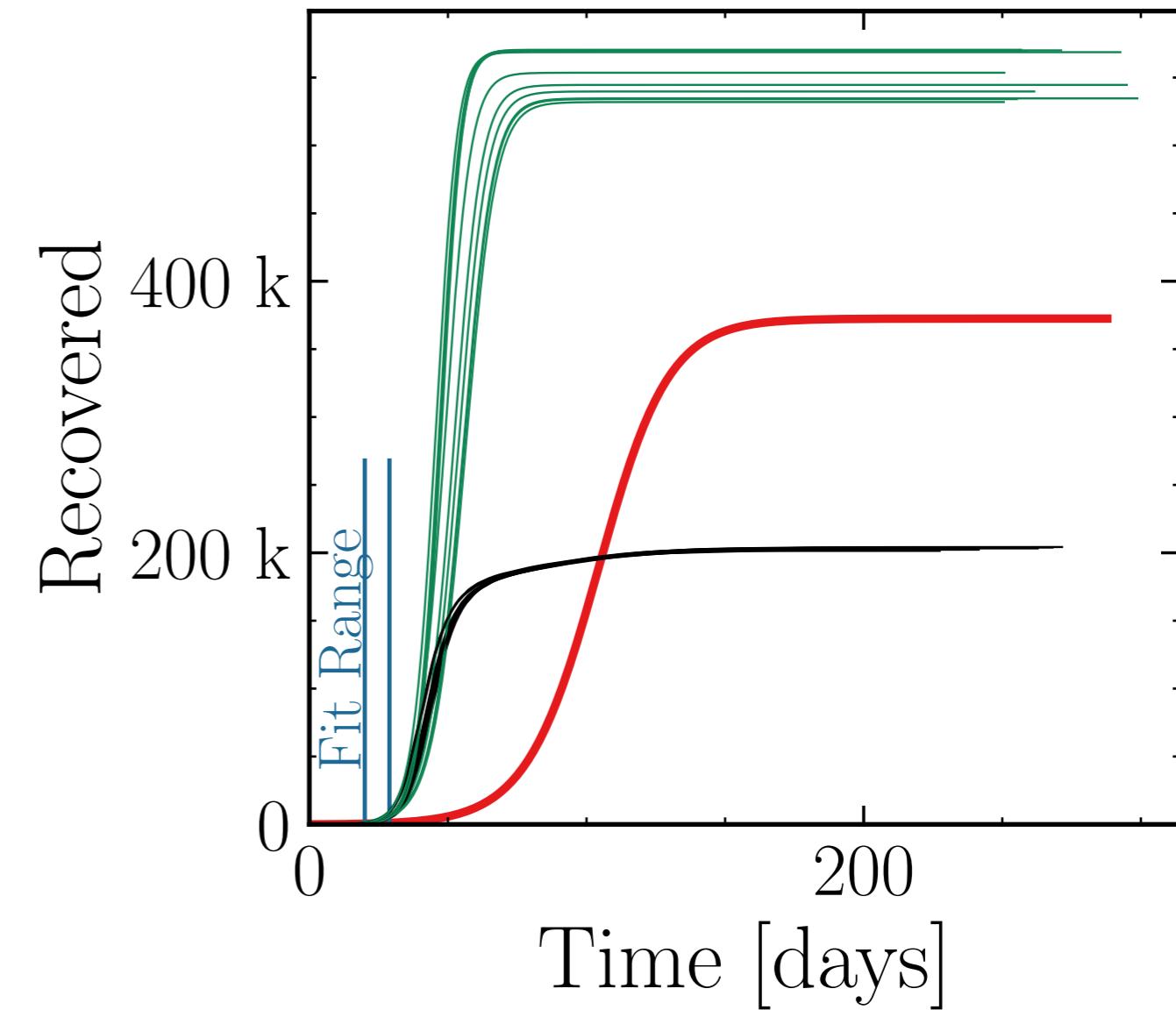
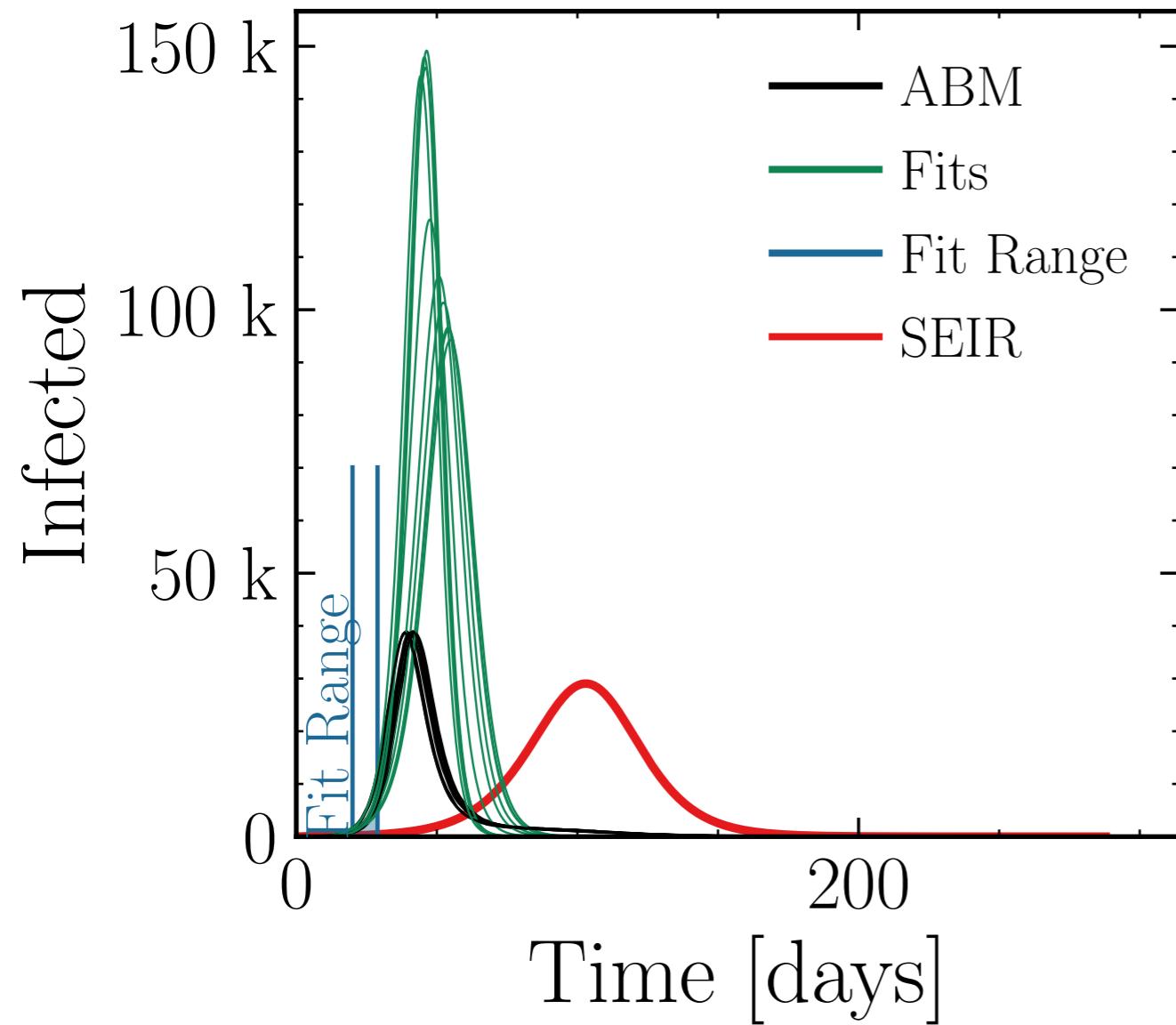
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (120 \pm 6.0\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (552 \pm 0.9\%) \cdot 10^3$$

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



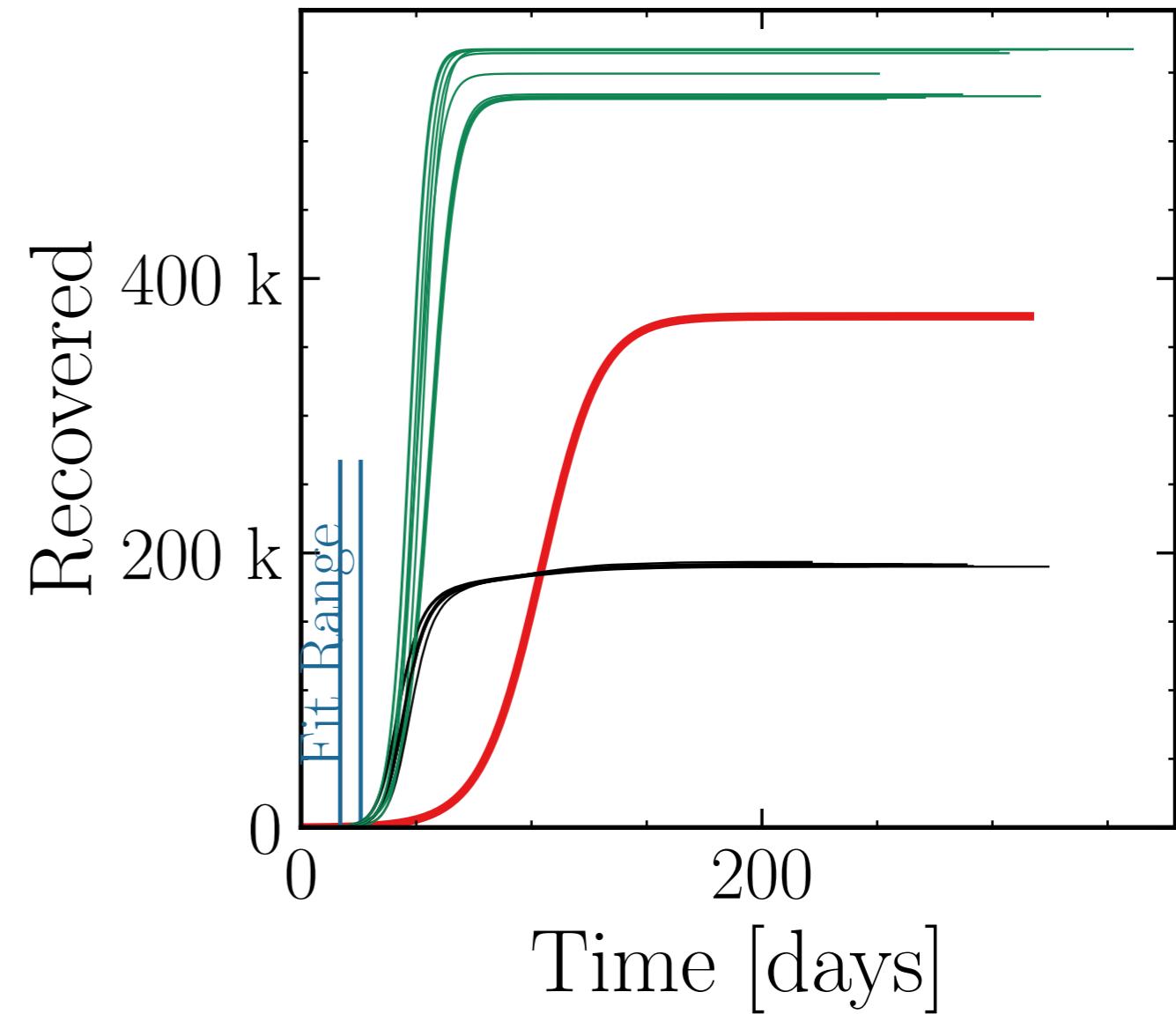
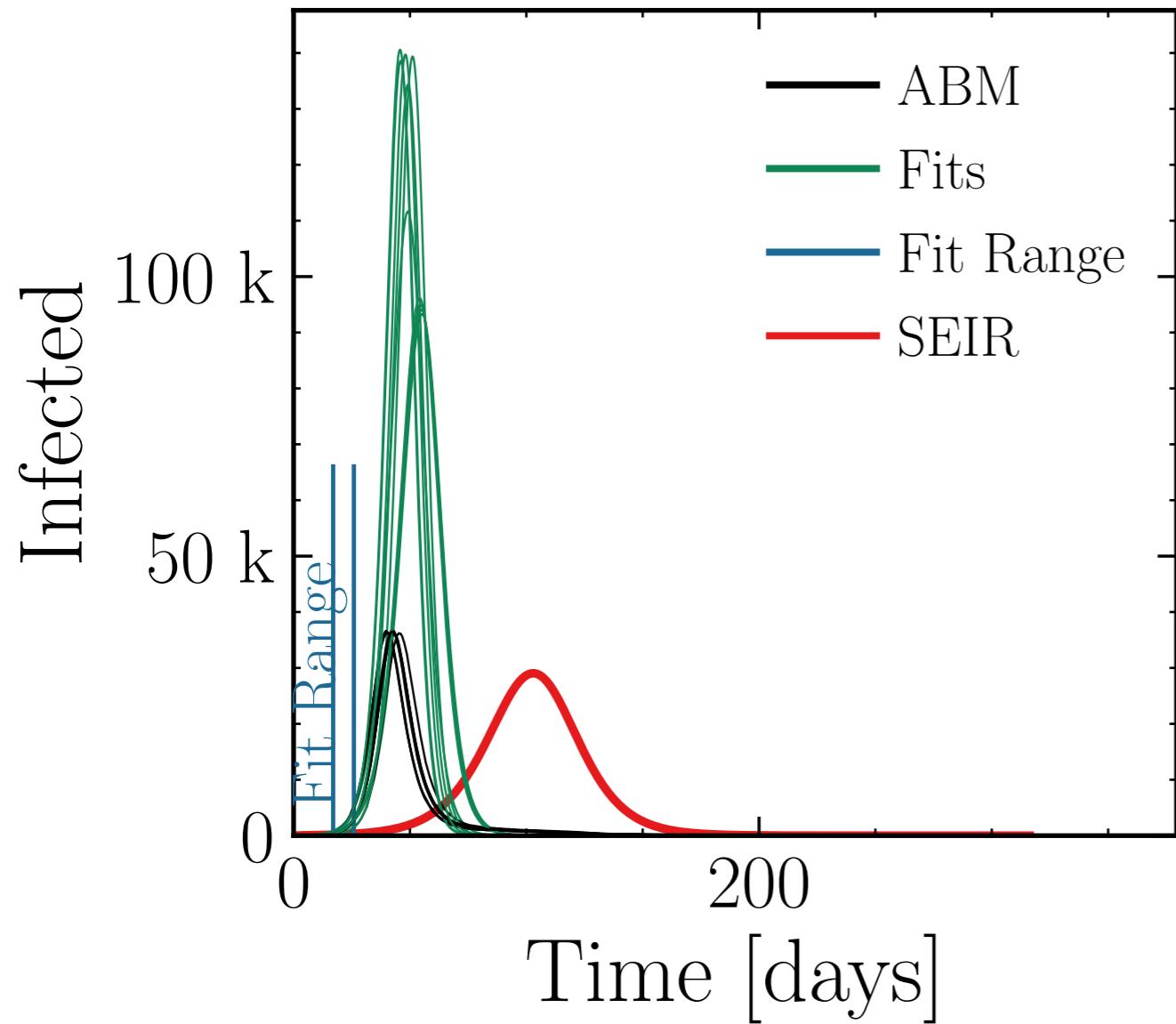
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (118 \pm 5.6\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (551 \pm 0.92\%) \cdot 10^3$$

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



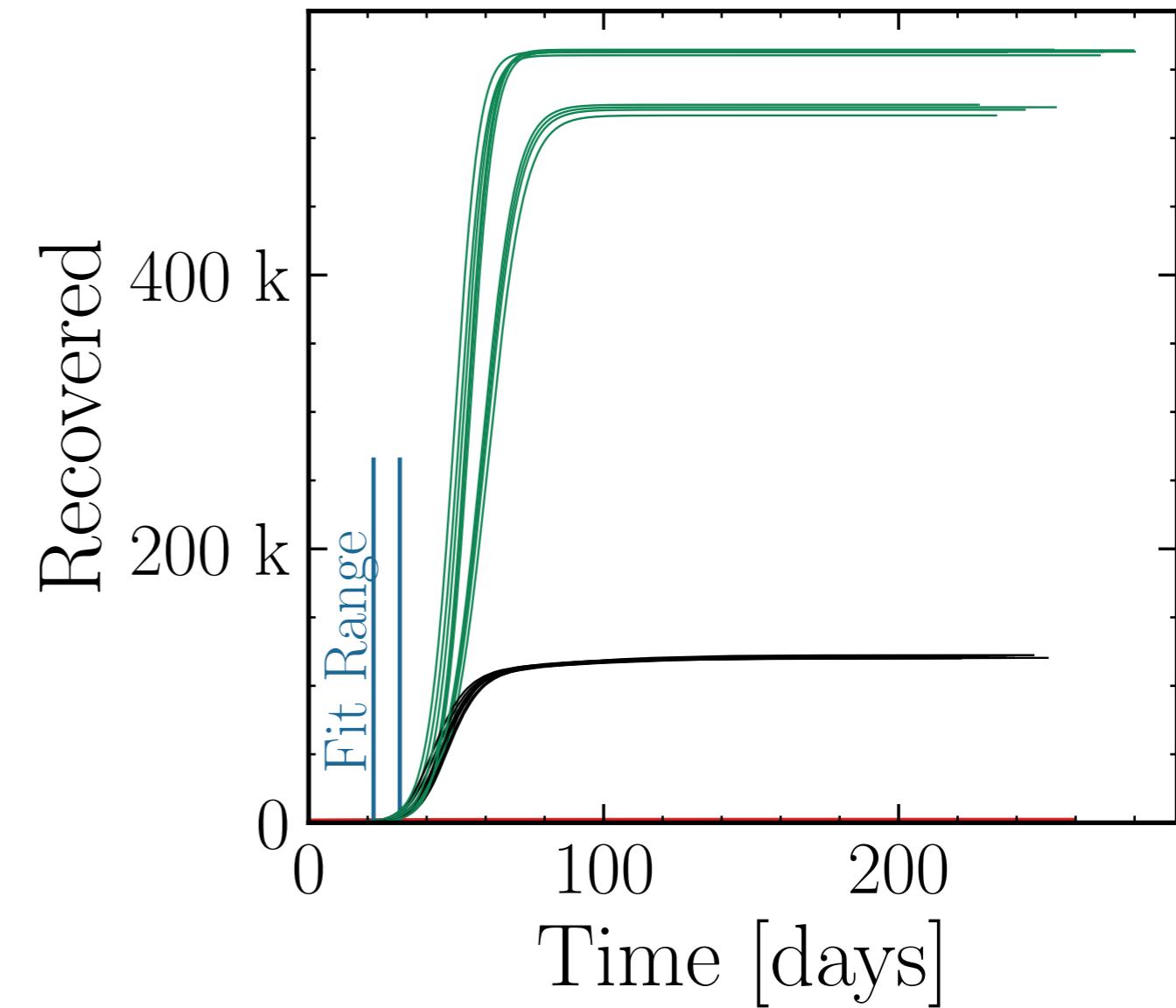
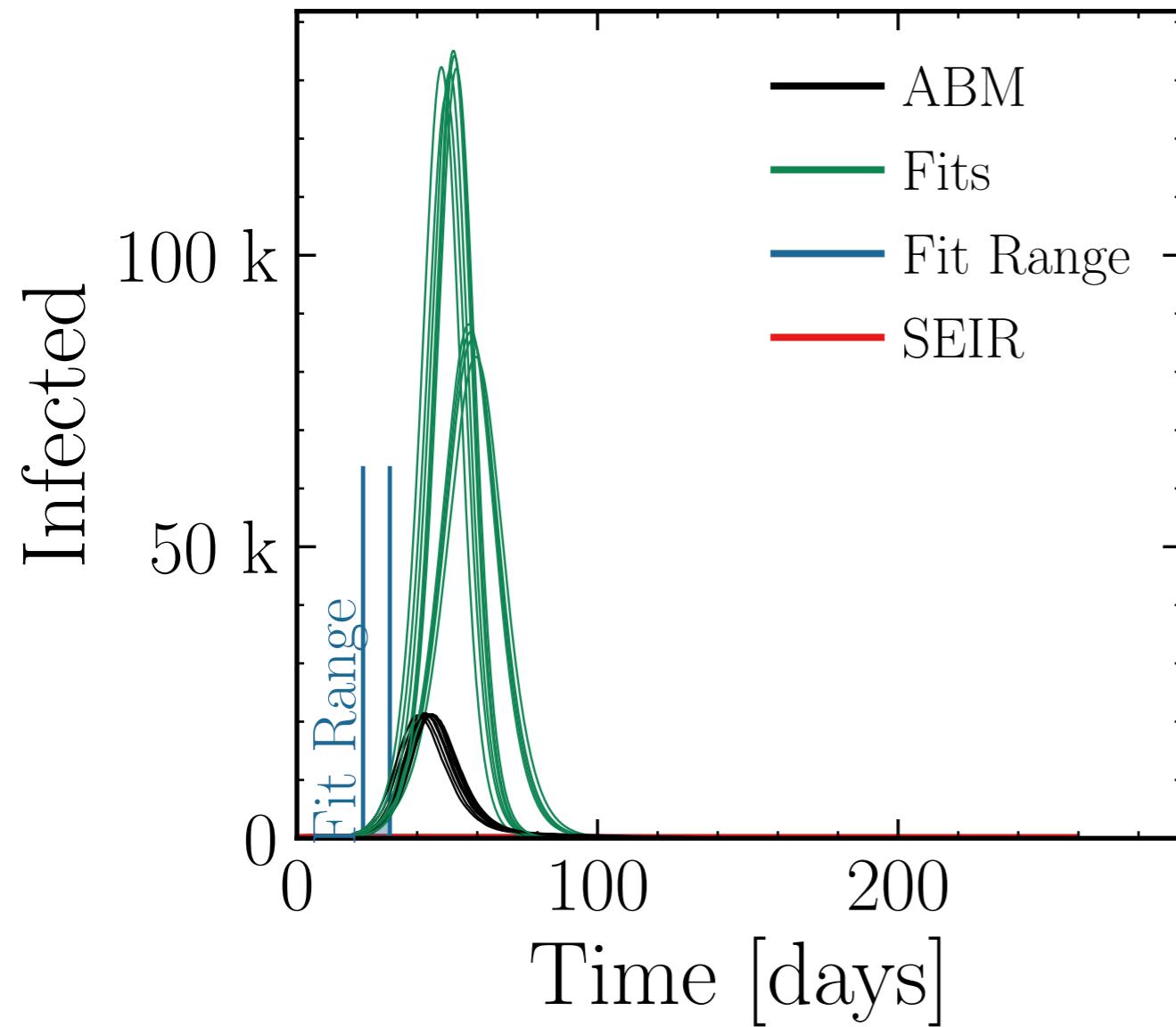
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (114 \pm 6.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (546 \pm 1.2\%) \cdot 10^3$$

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



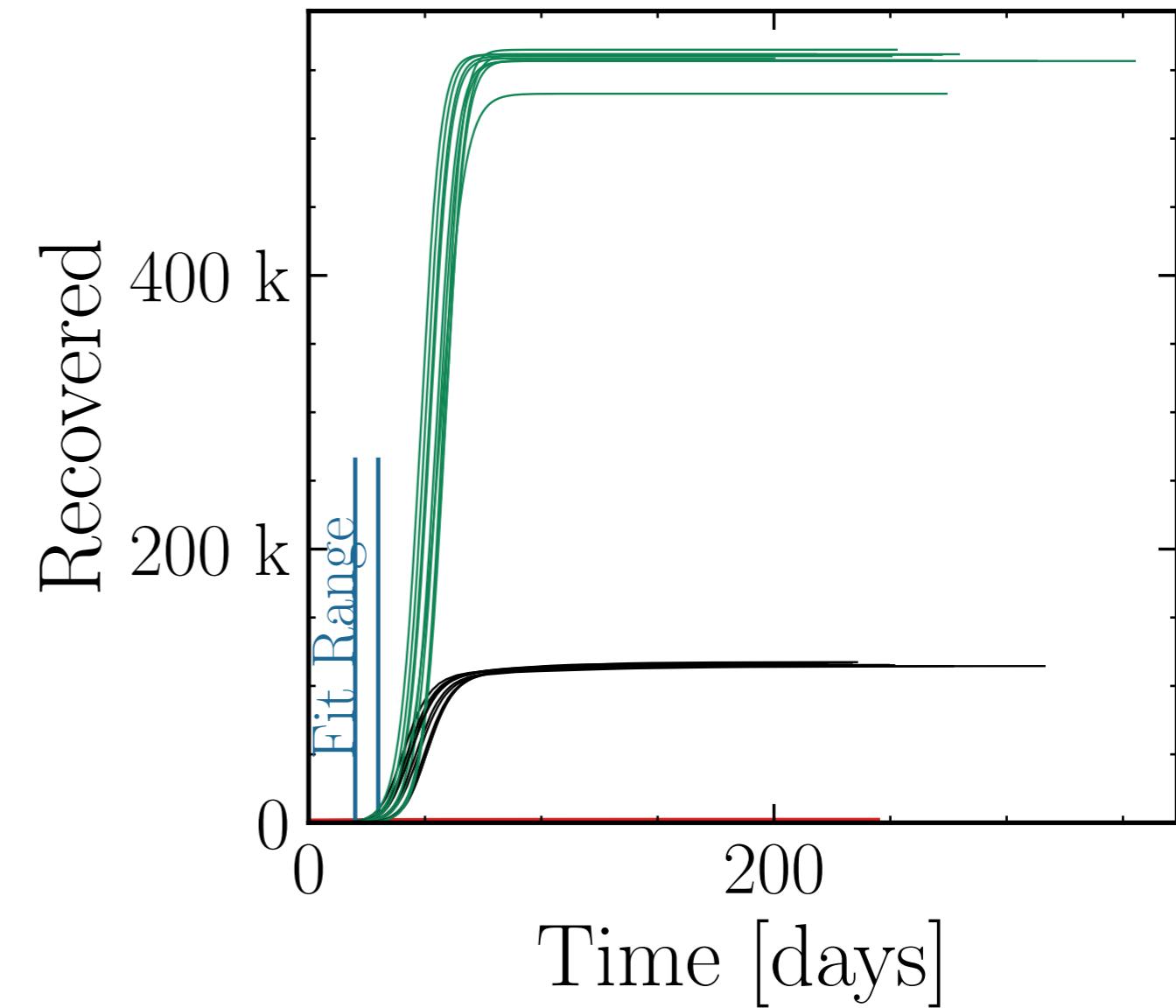
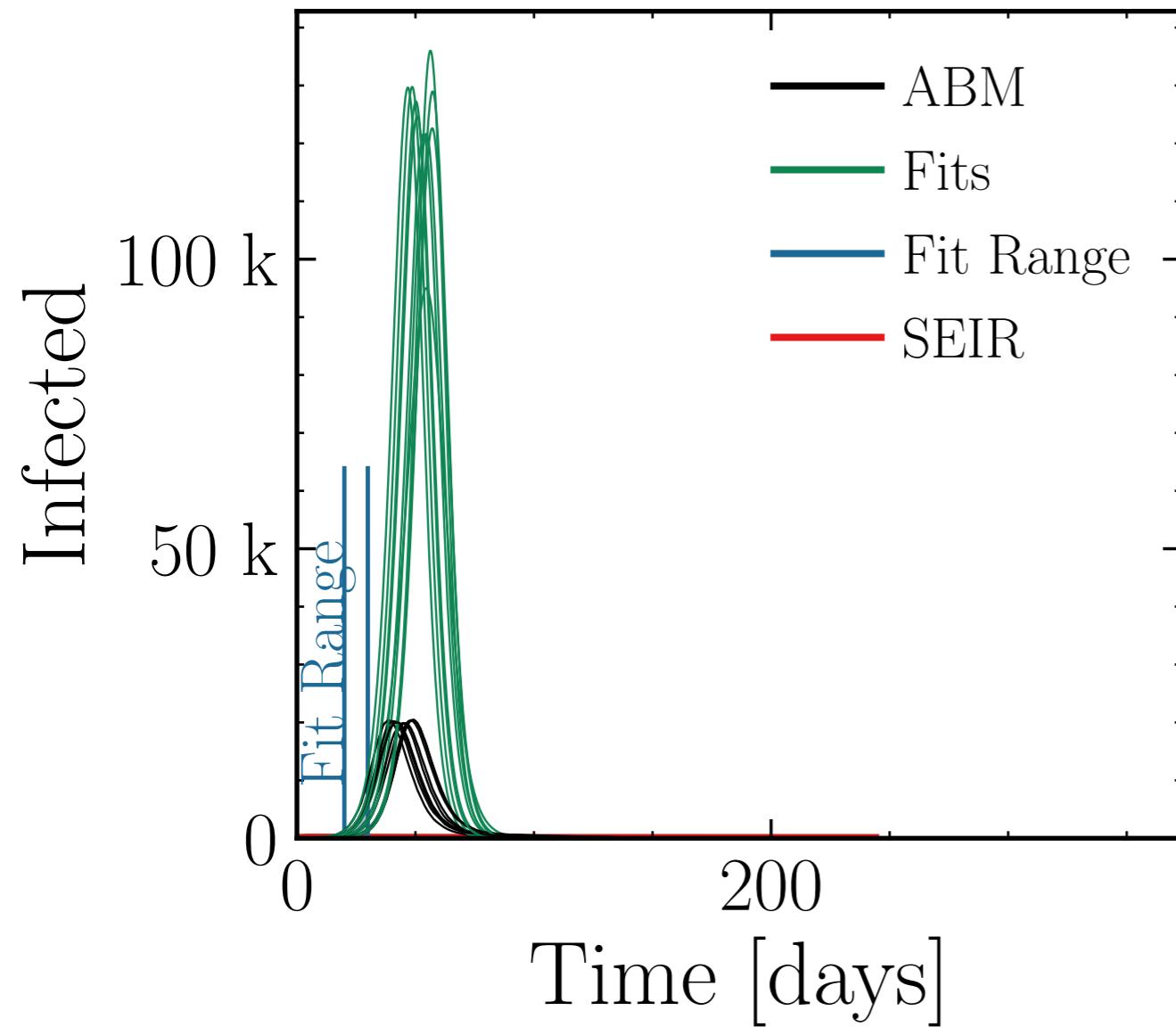
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (124 \pm 2.7\%) \cdot 10^3$$

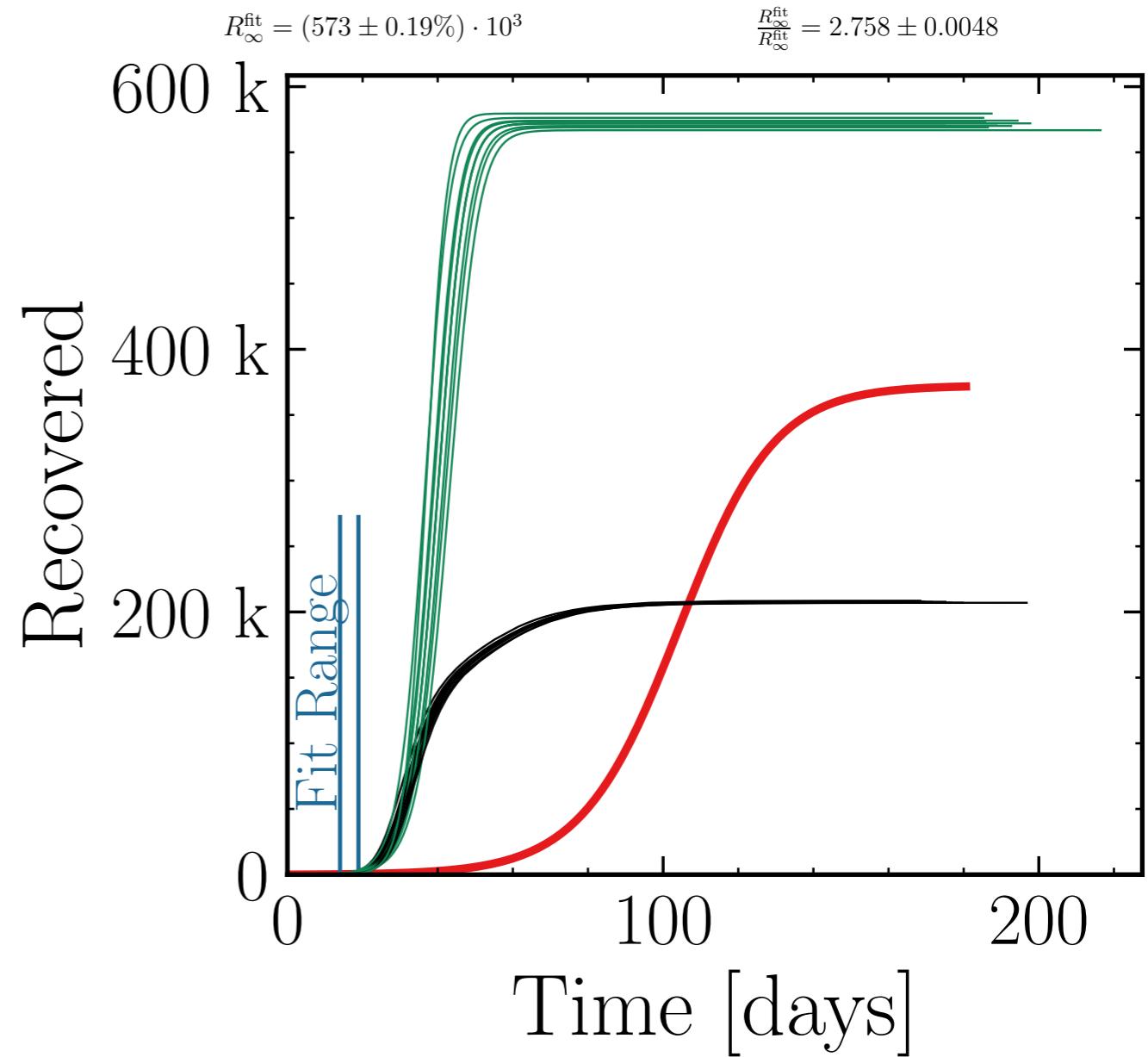
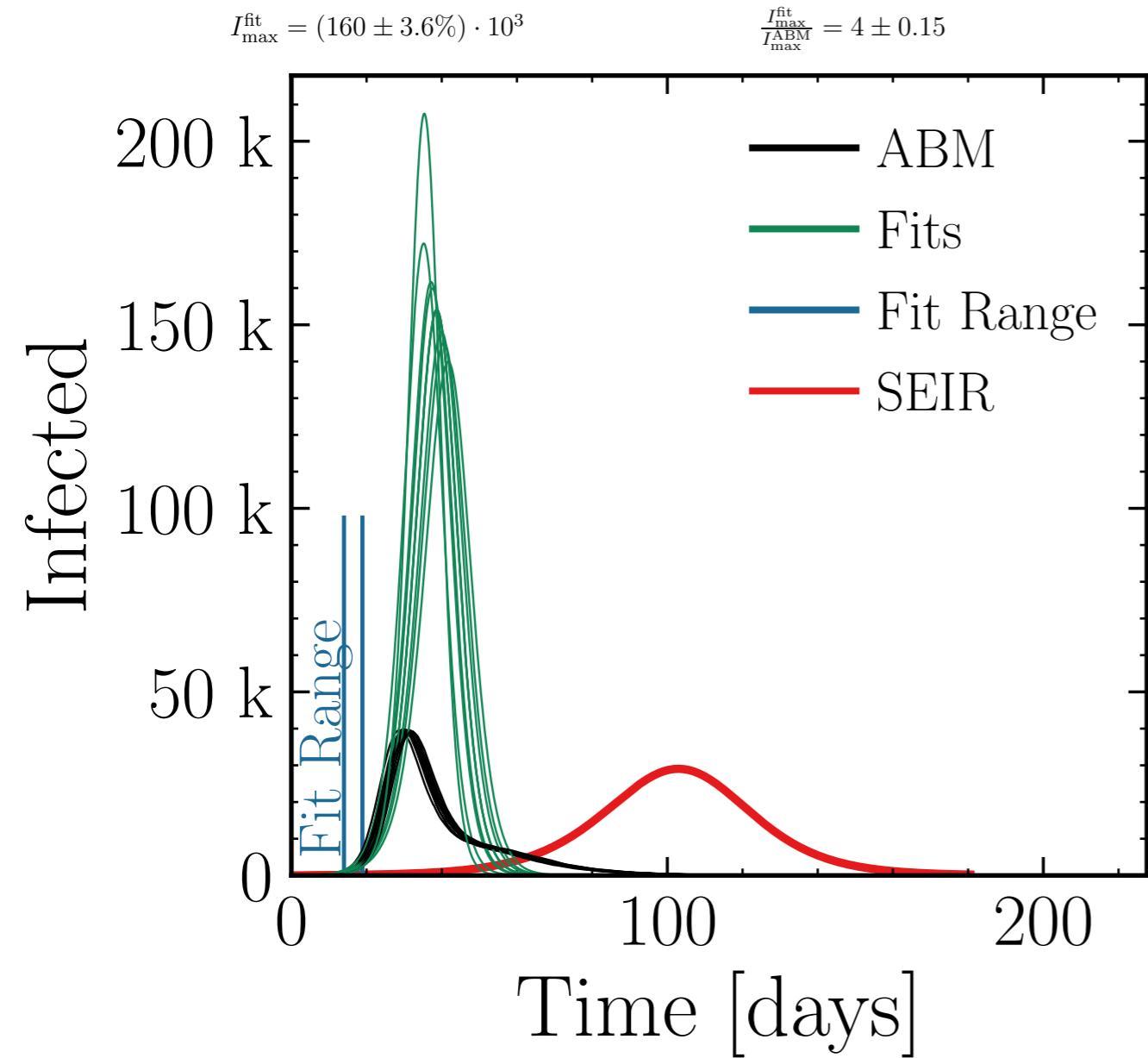
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 6.1 \pm 0.16$$

$$R_{\infty}^{\text{fit}} = (557 \pm 0.49\%) \cdot 10^3$$

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



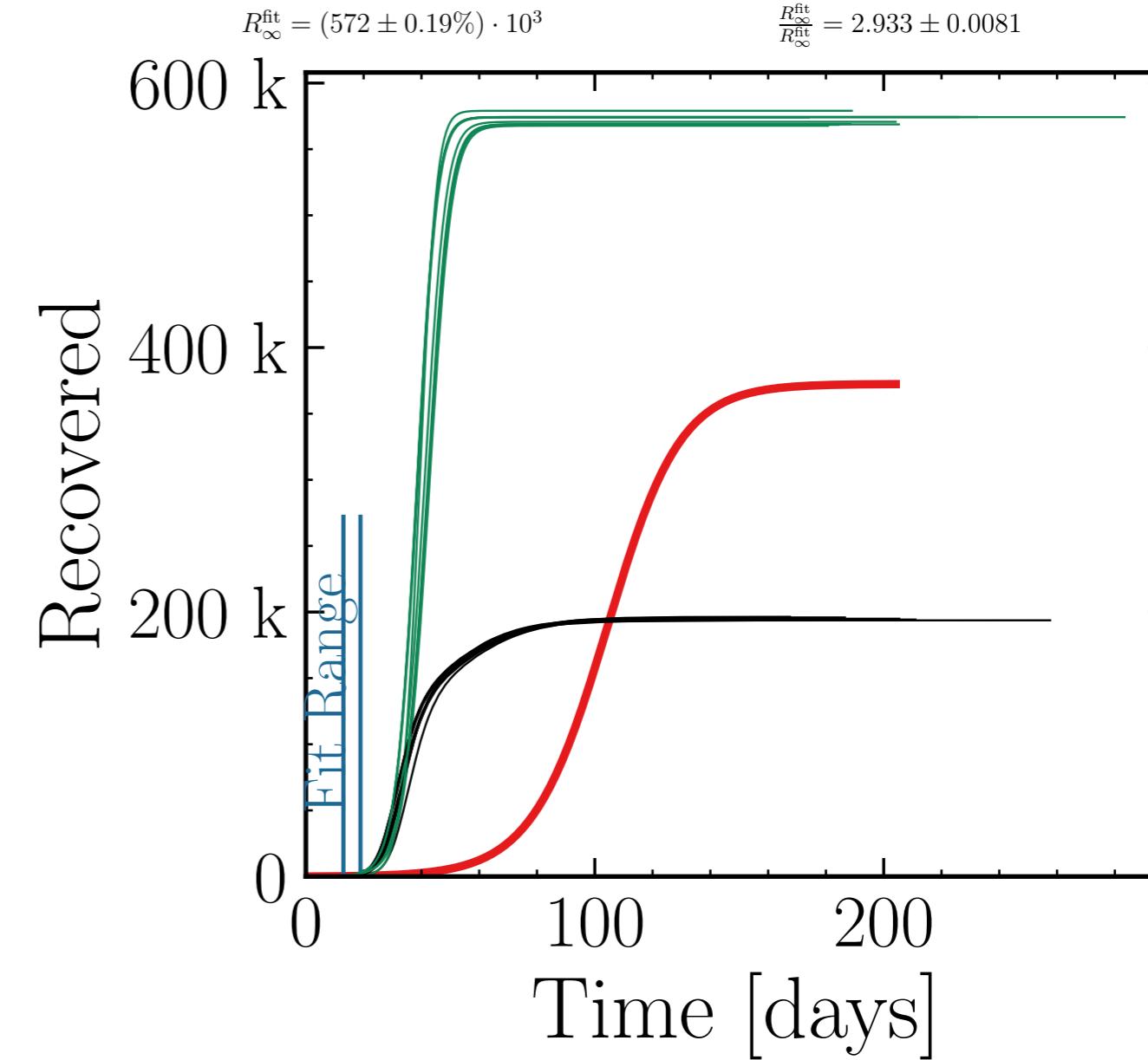
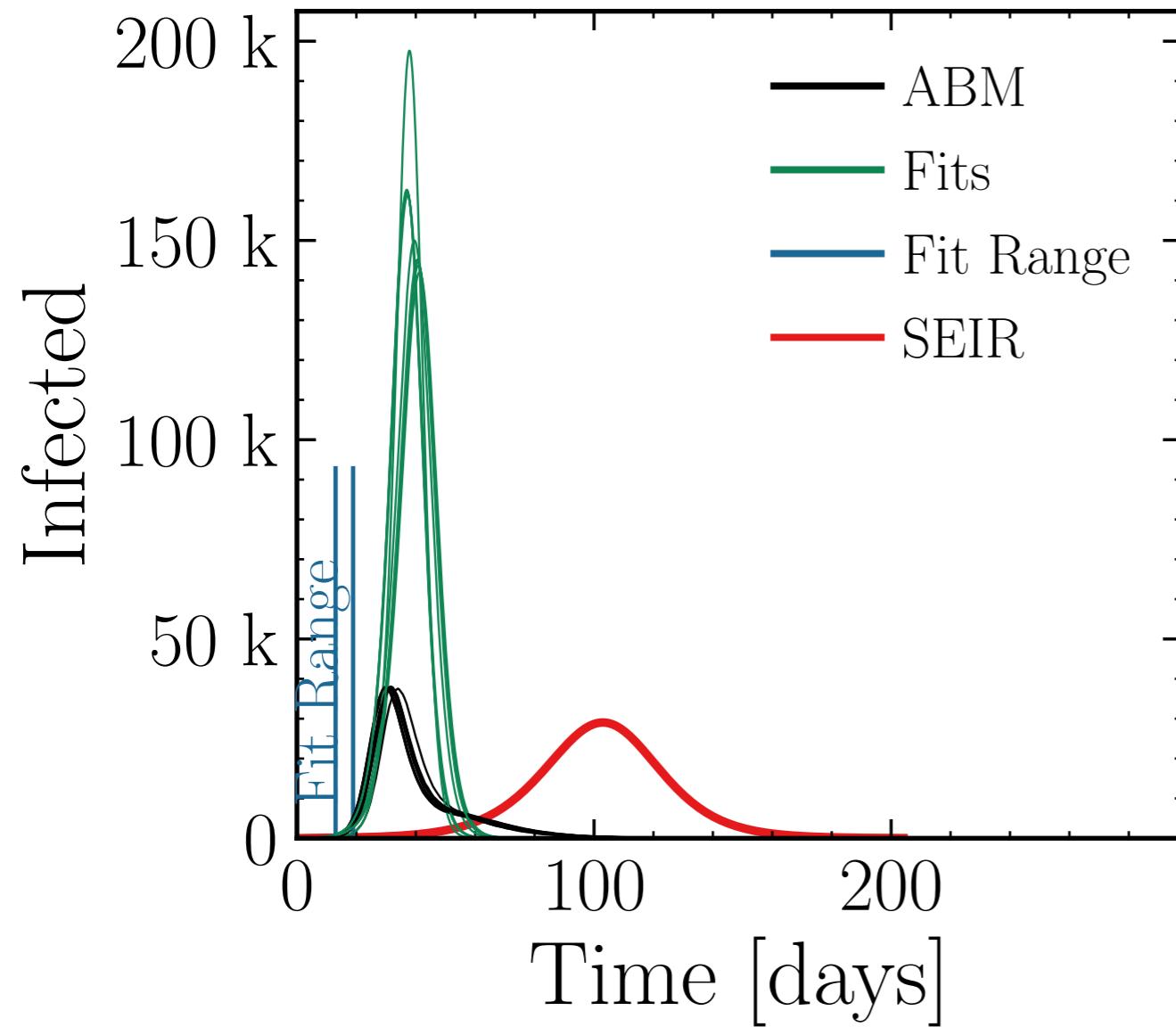
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 10.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (157 \pm 3.2\%) \cdot 10^3$$

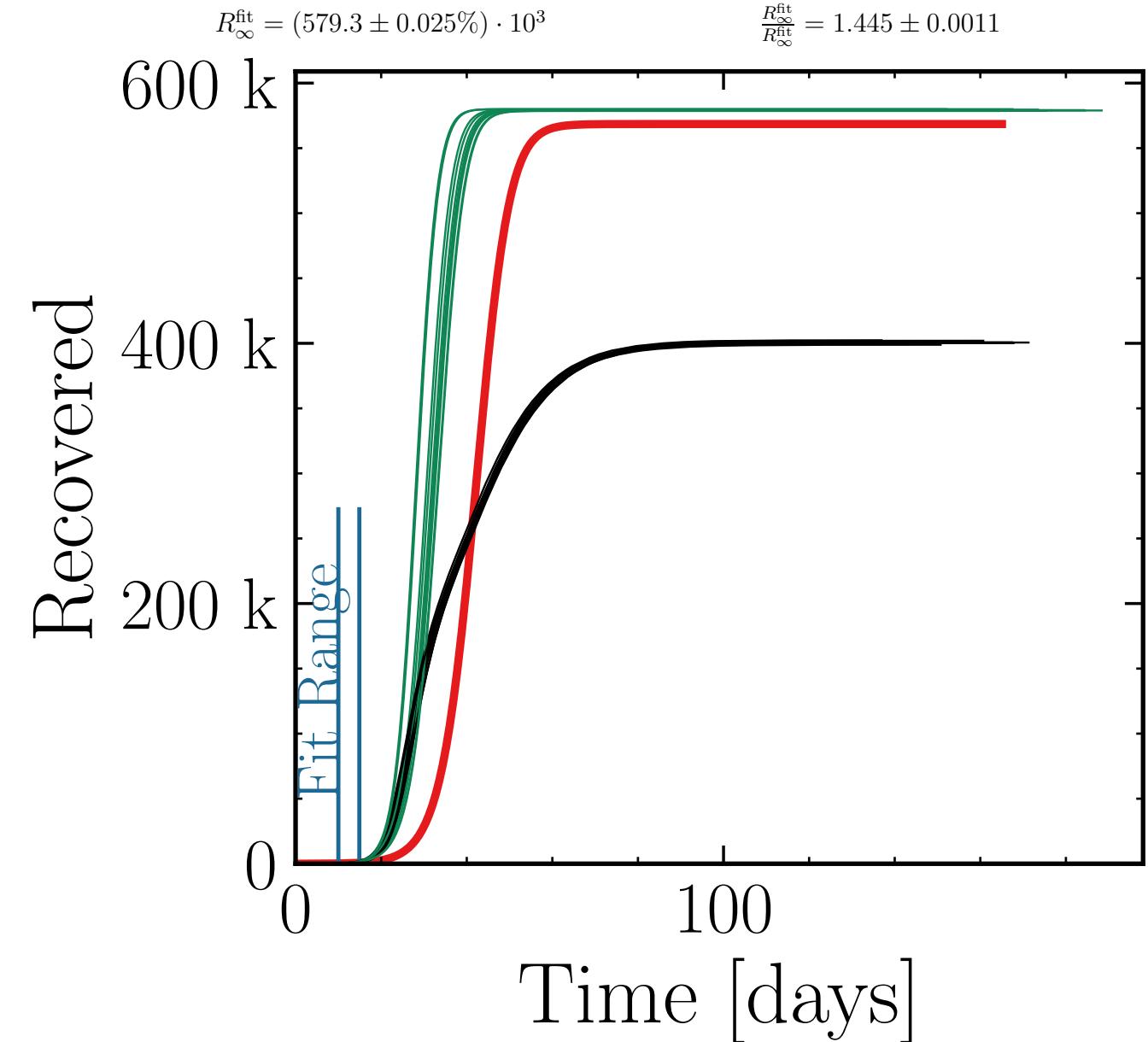
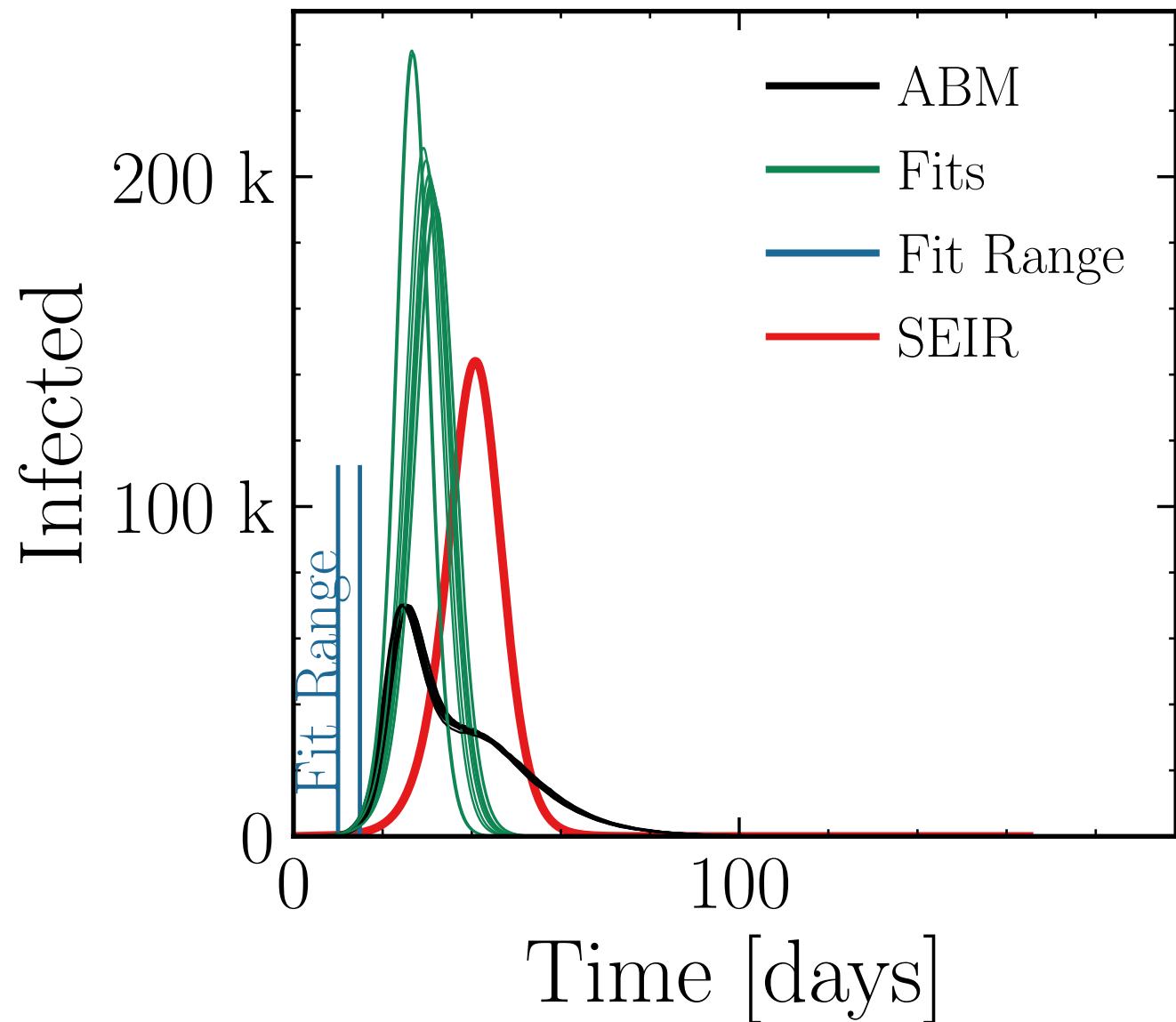
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.2 \pm 0.13$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 100.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (206 \pm 2.5\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.95 \pm 0.075$$



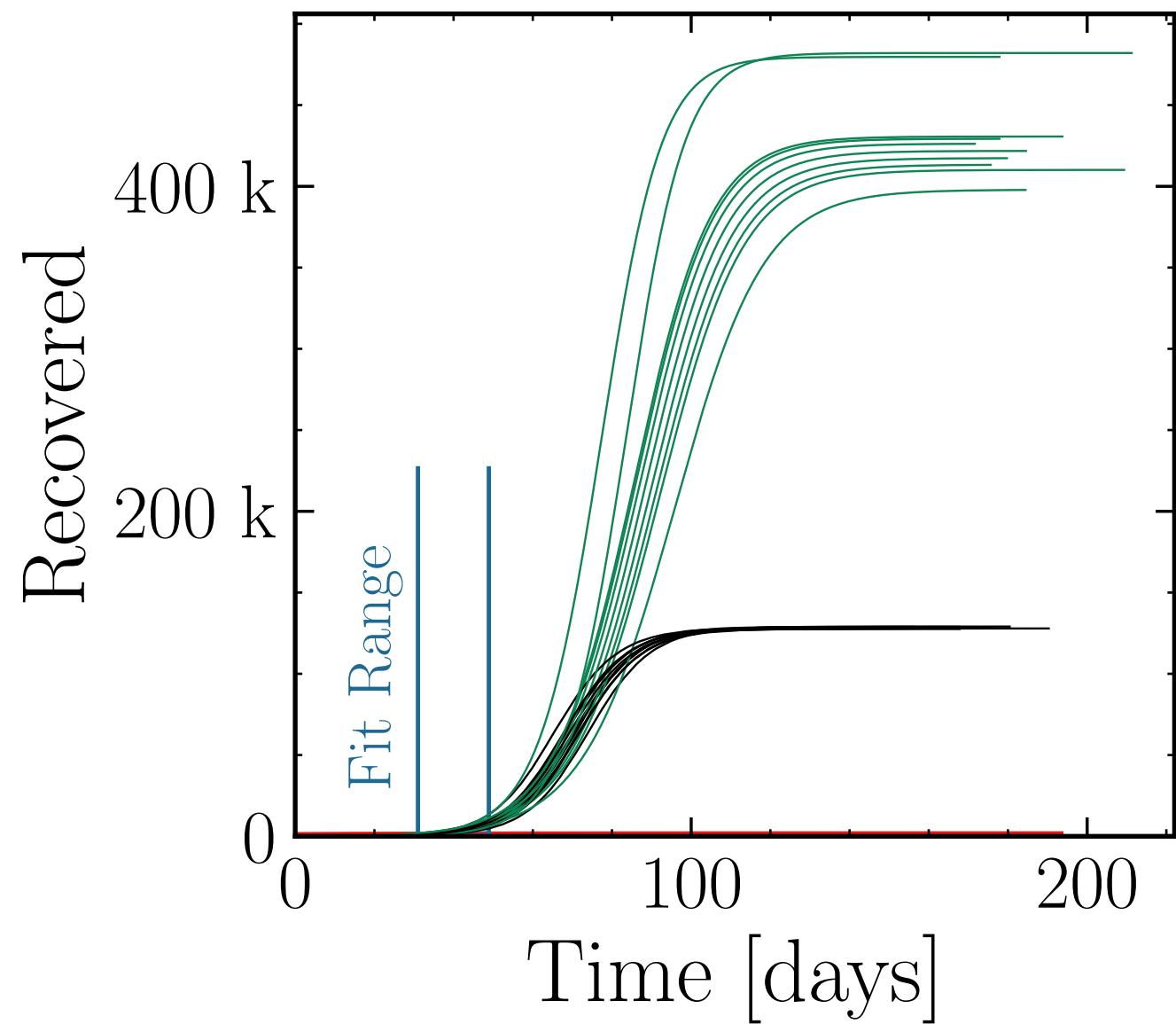
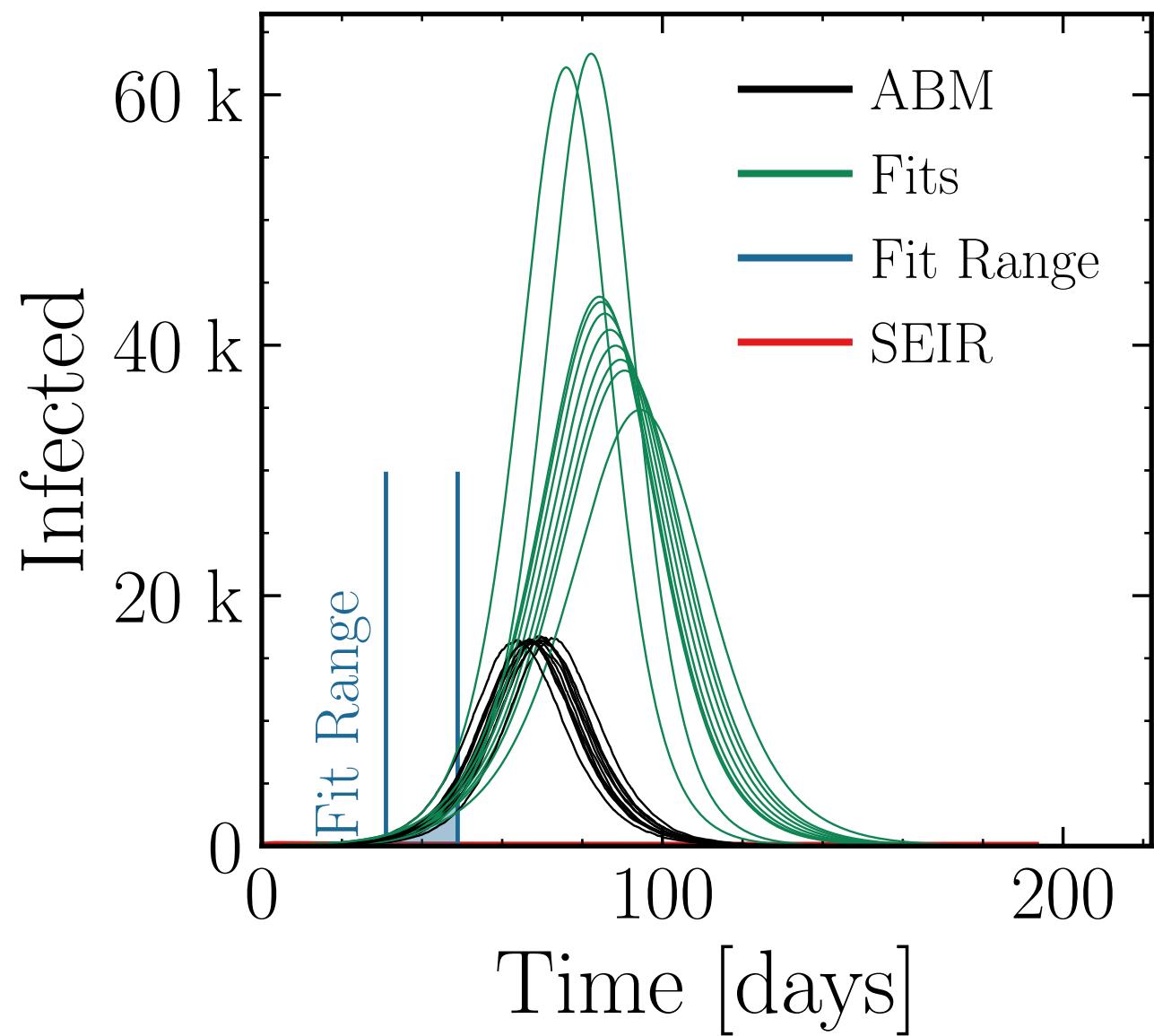
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (45 \pm 6.6\%) \cdot 10^3$$

$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 2.7 \pm 0.18$$

$$R_{\infty}^{\text{fit}} = (431 \pm 2.0\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.35 \pm 0.065$$



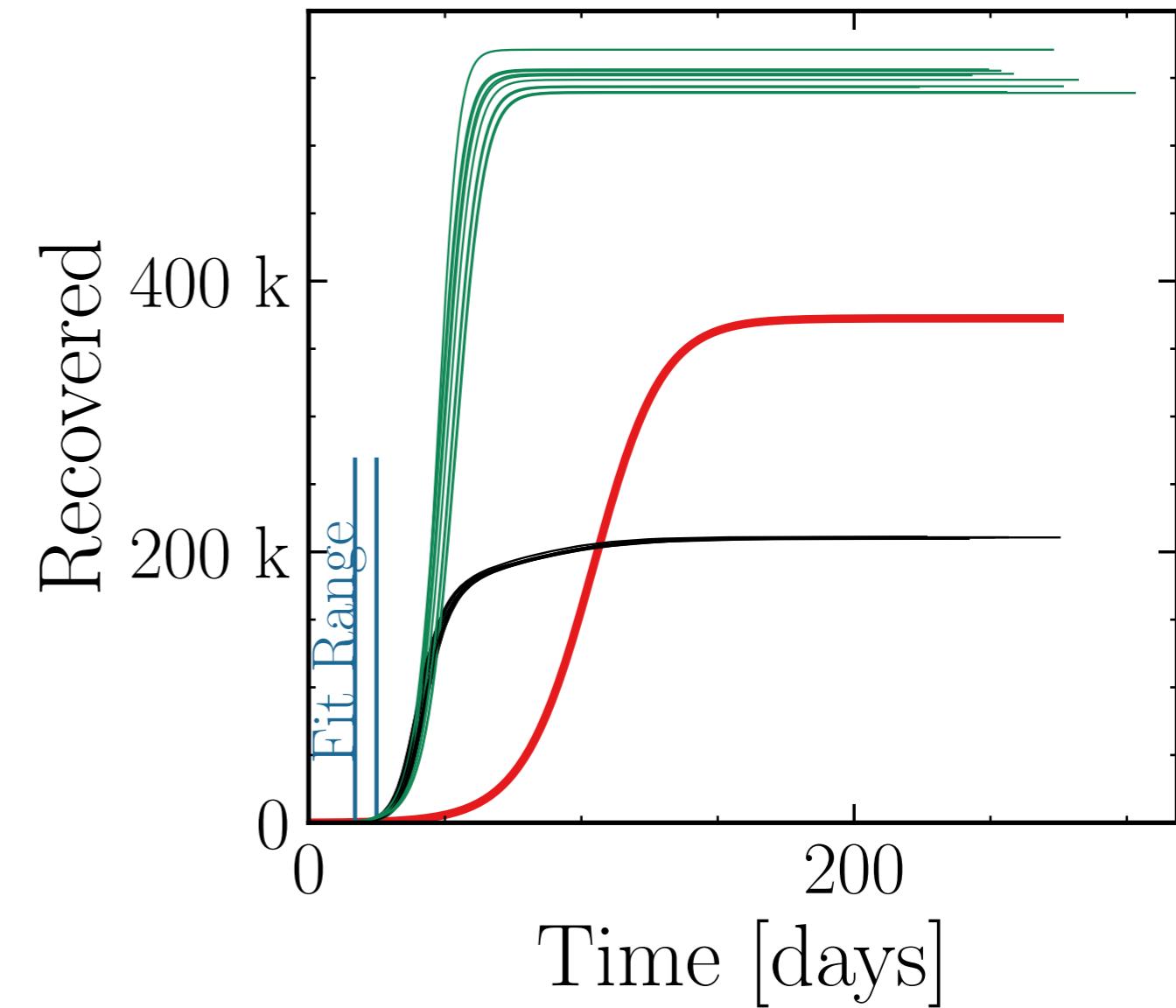
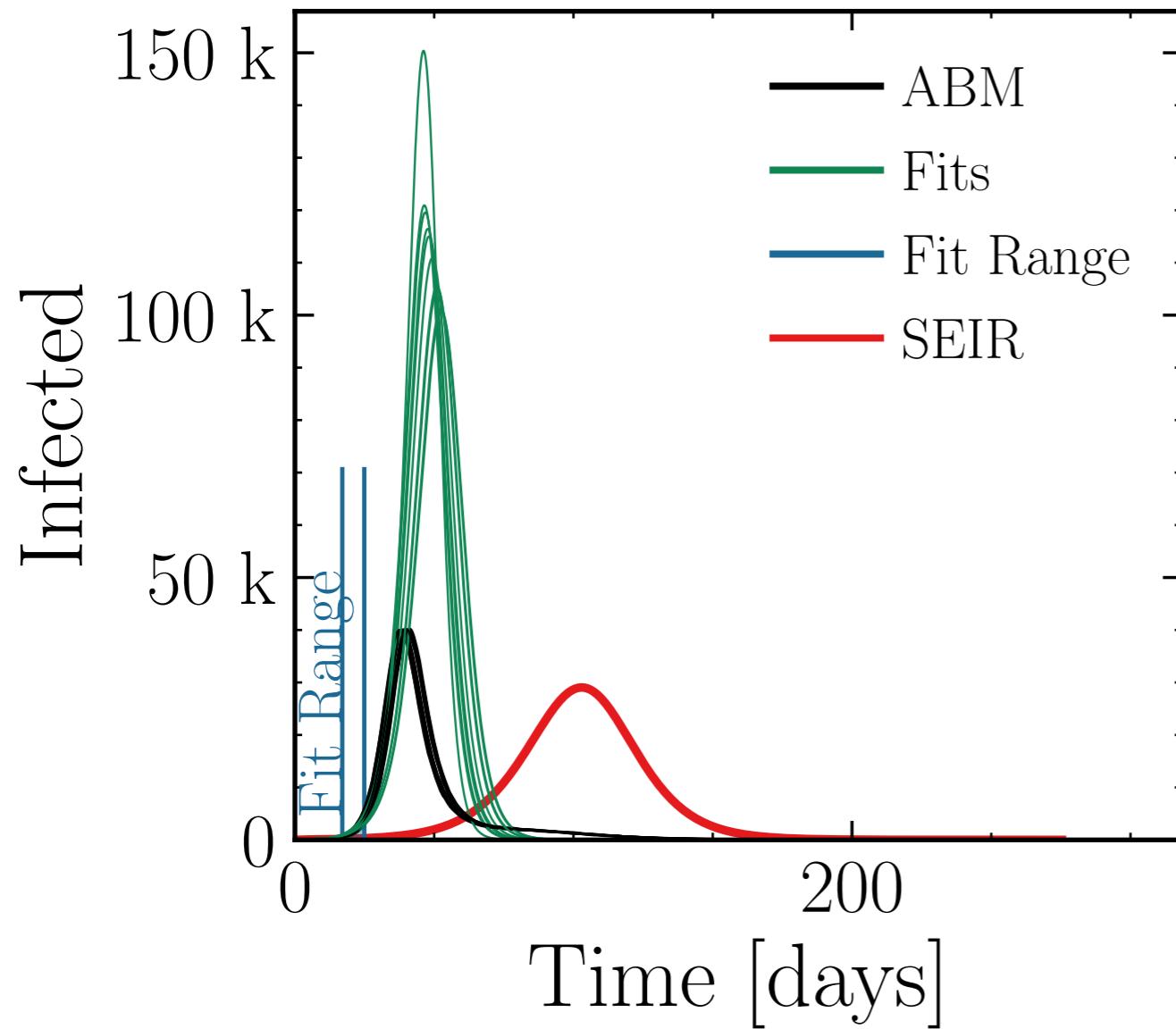
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (115 \pm 3.8\%) \cdot 10^3$$

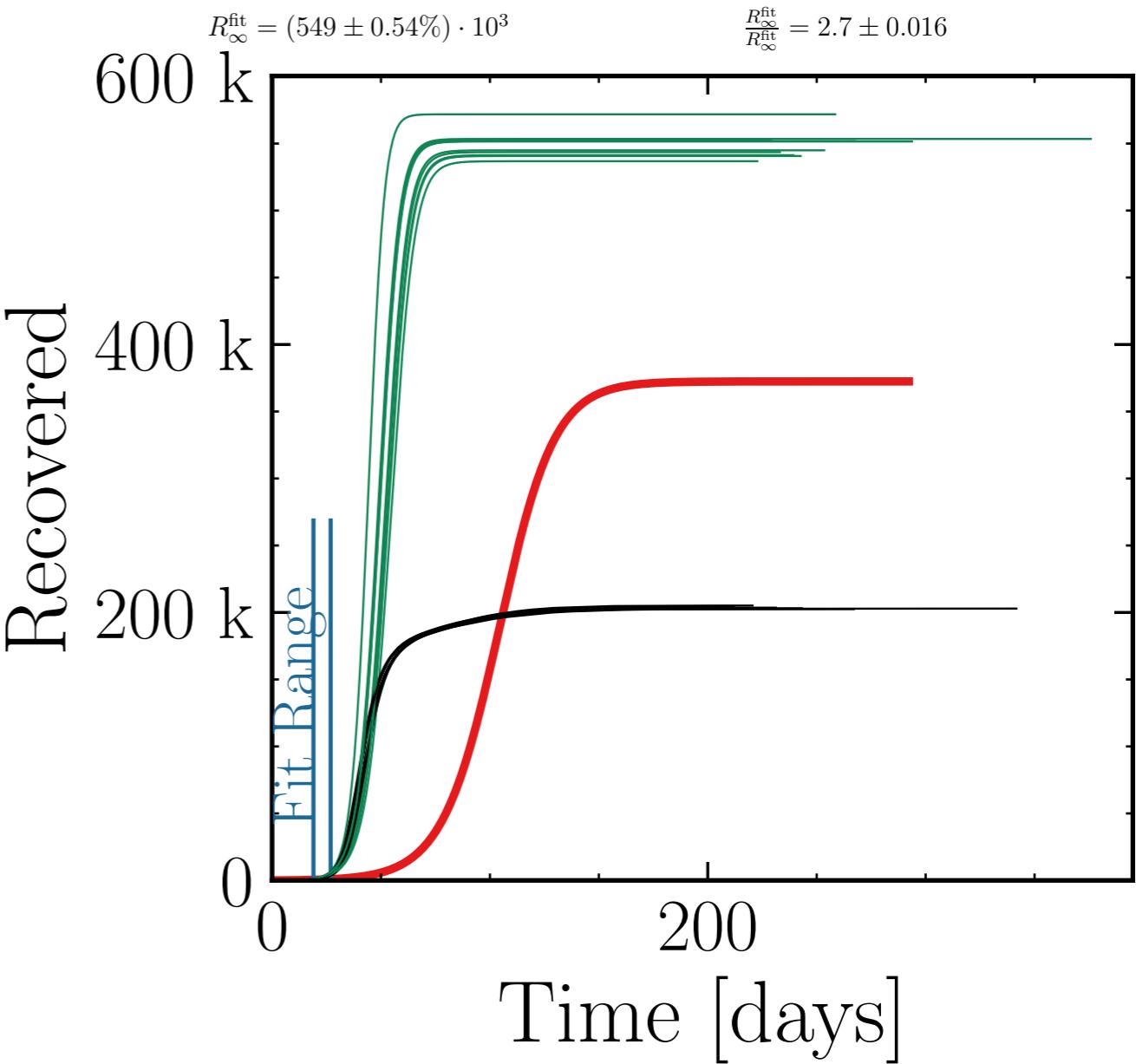
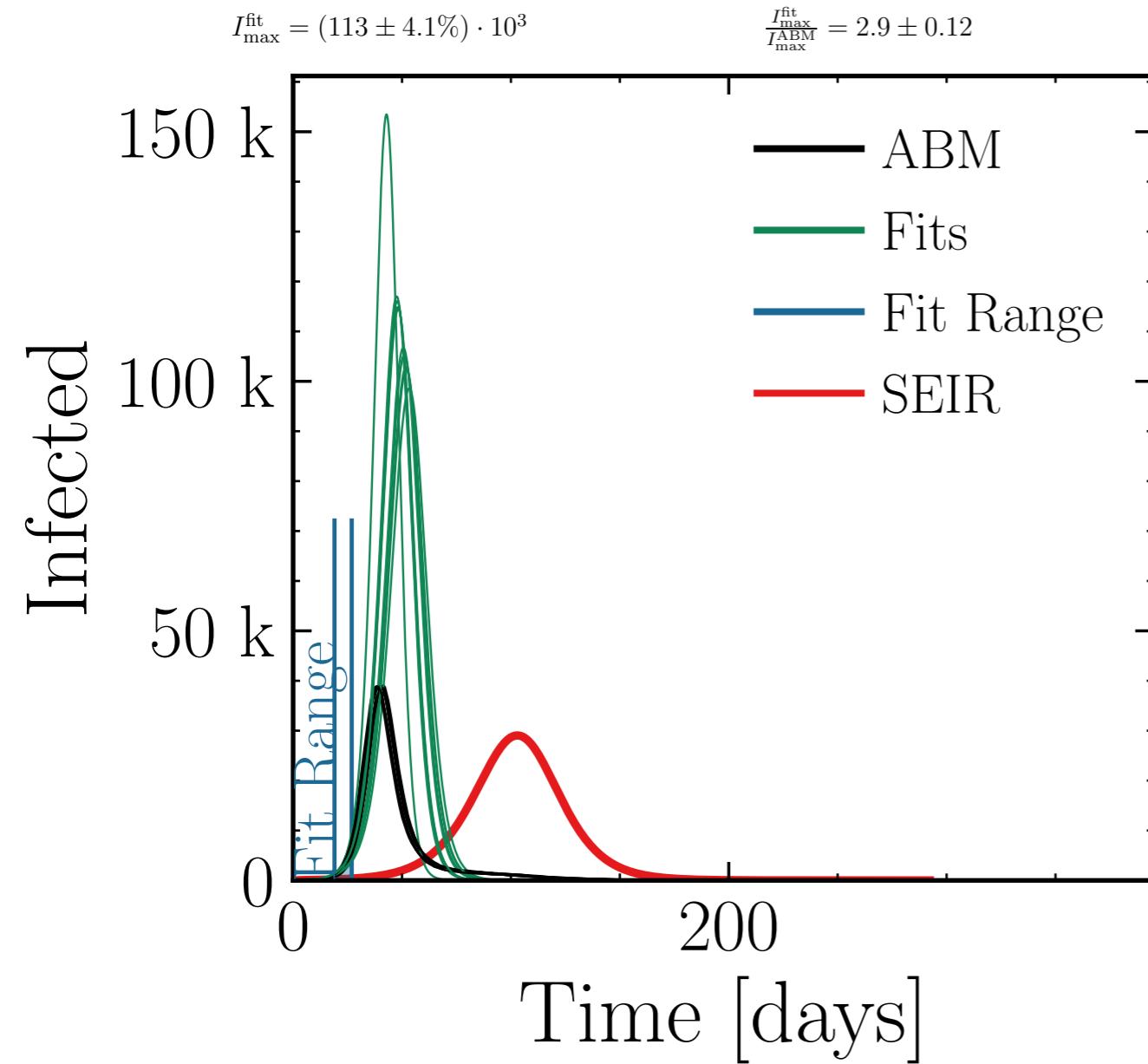
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.9 \pm 0.11$$

$$R_{\infty}^{\text{fit}} = (550 \pm 0.53\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.61 \pm 0.014$$



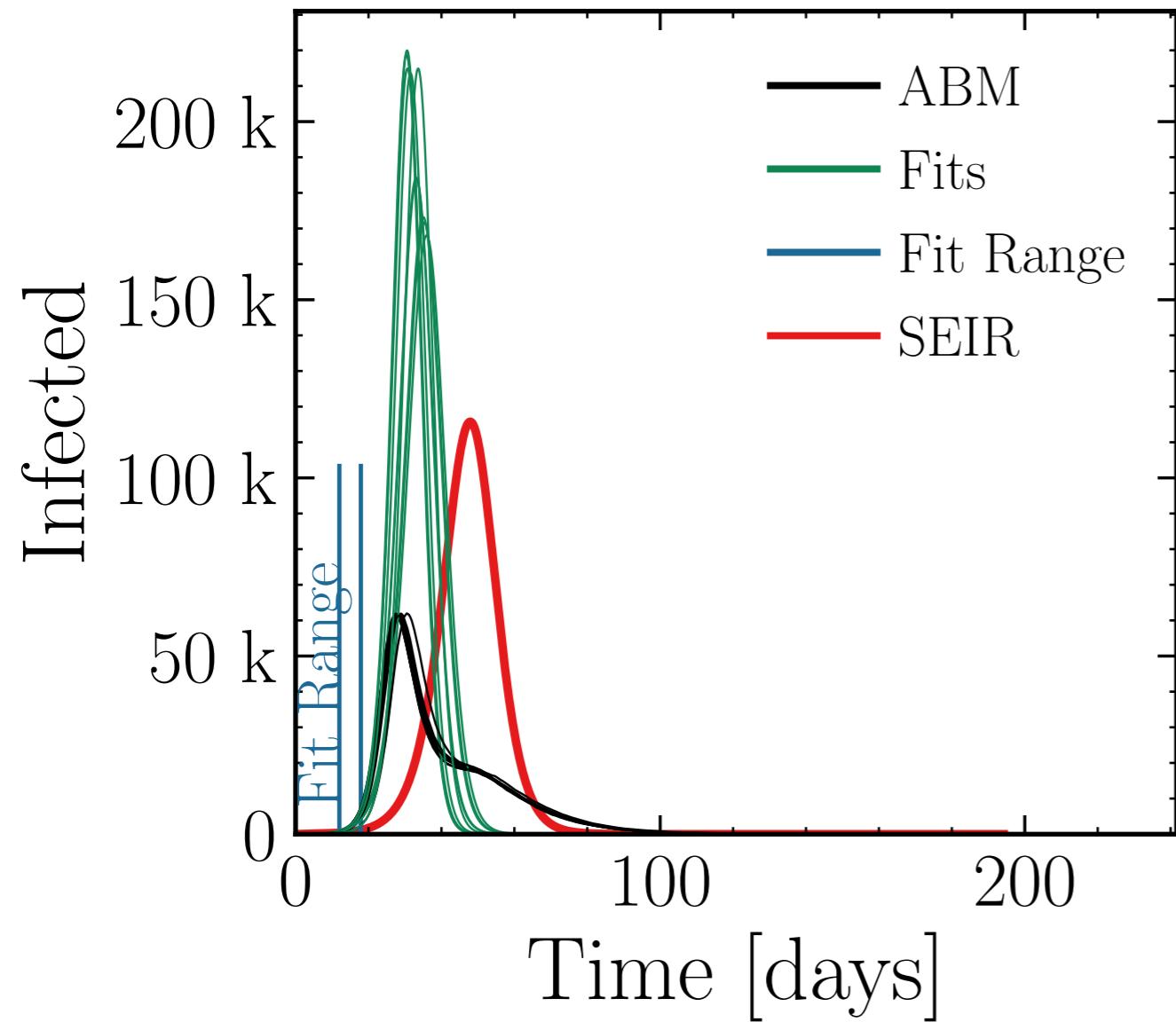
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

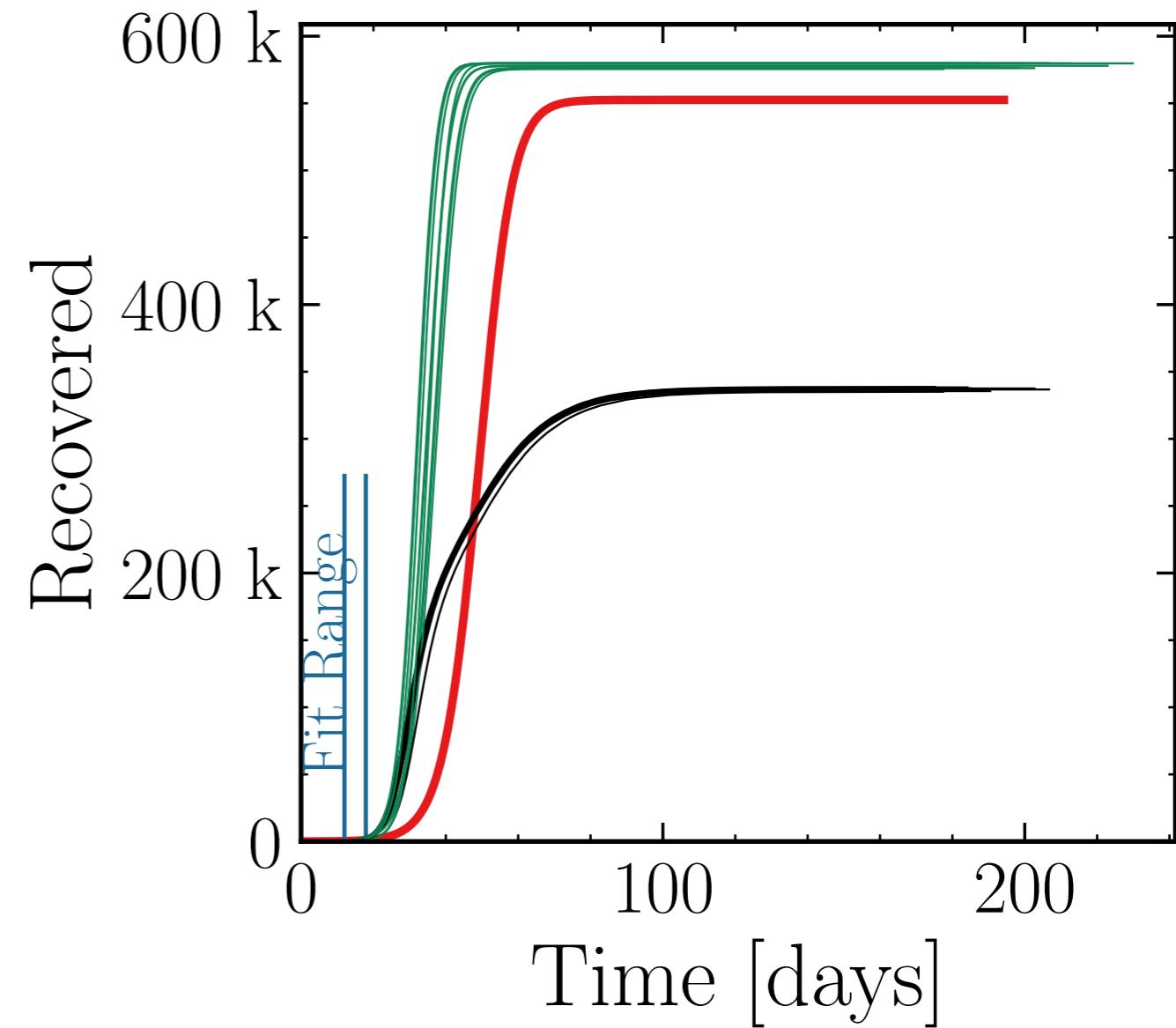
$$I_{\max}^{\text{fit}} = (196 \pm 3.3\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 3.2 \pm 0.11$$

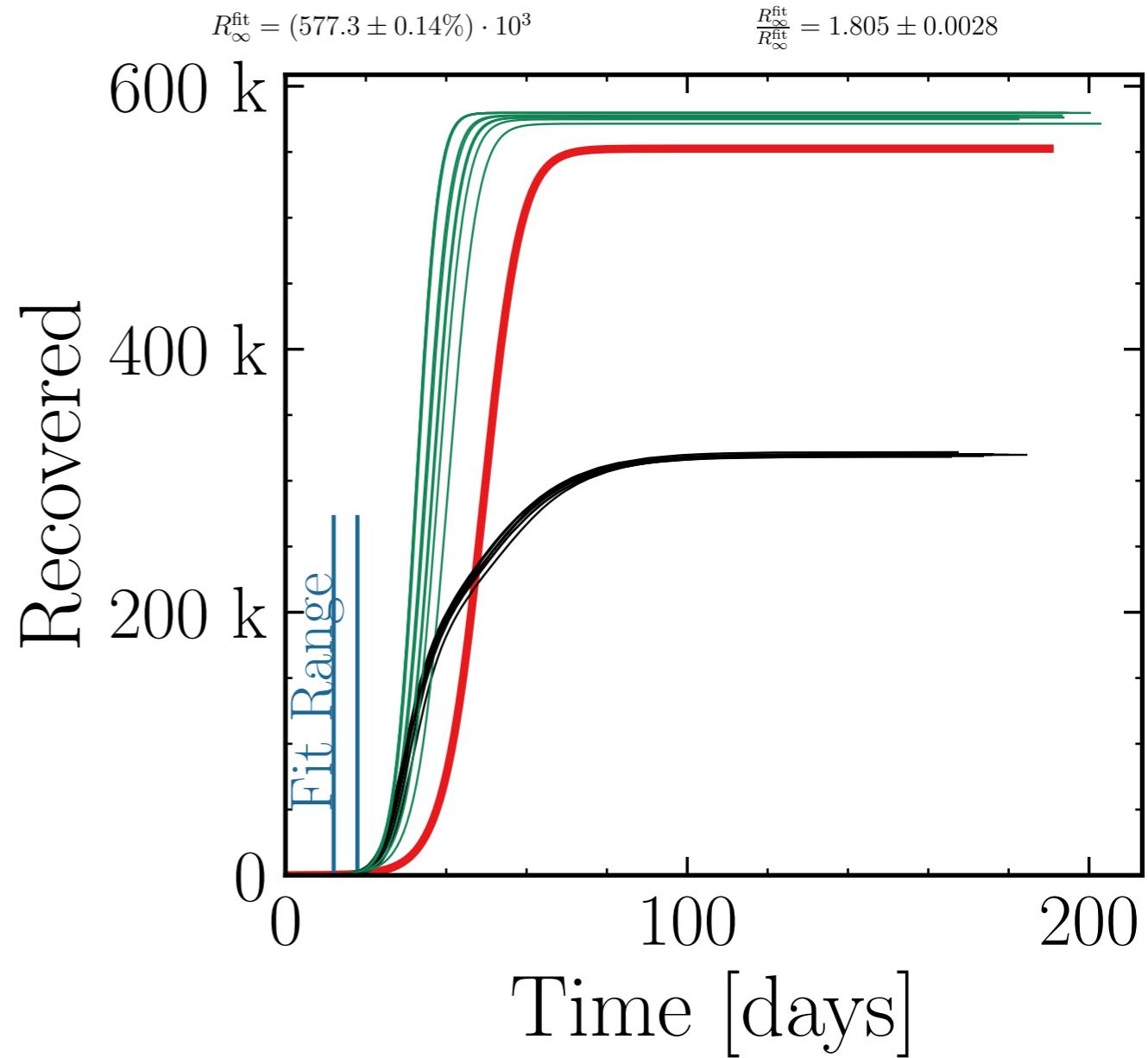
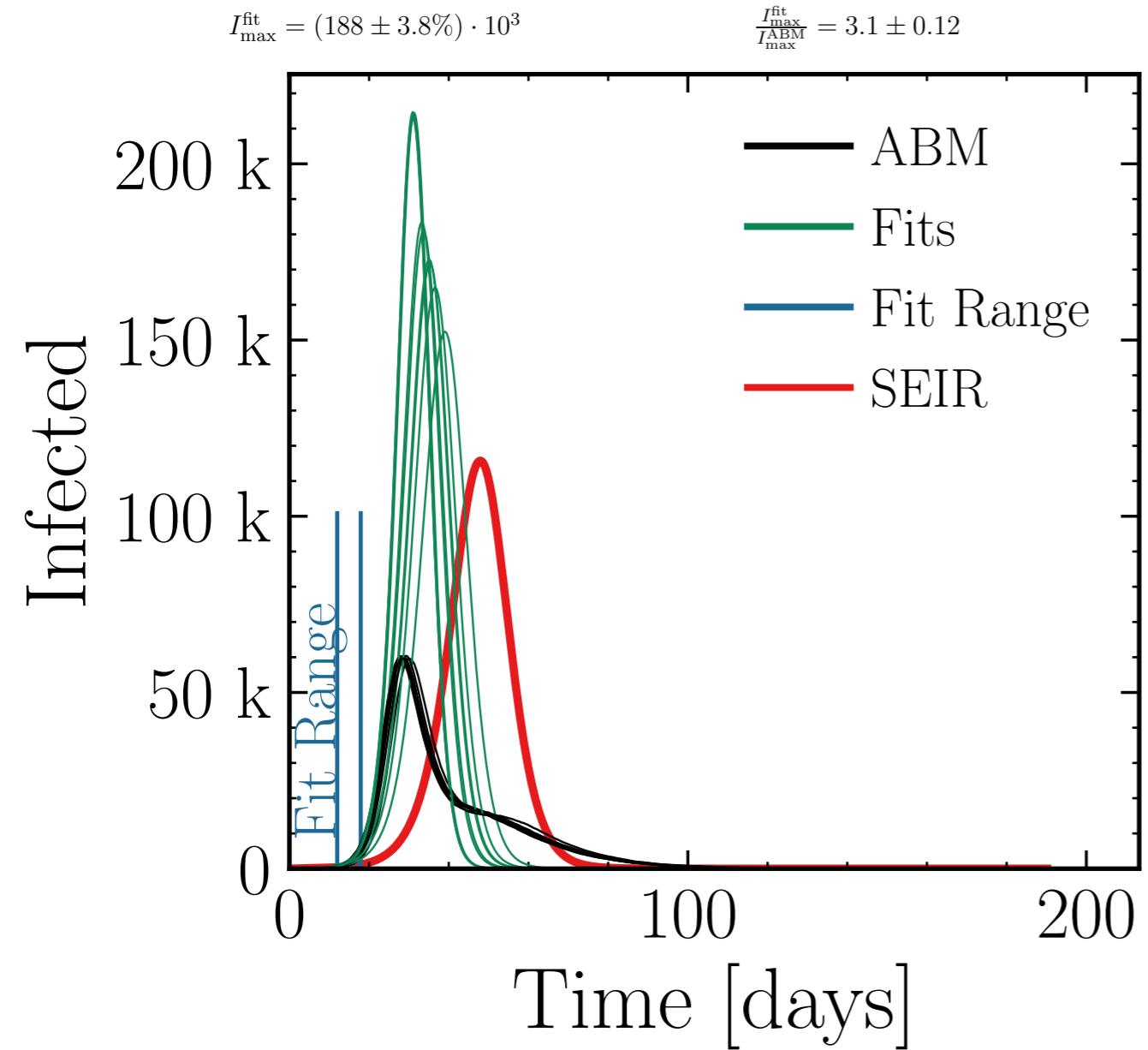


$$R_{\infty}^{\text{fit}} = (578.3 \pm 0.089\%) \cdot 10^3$$

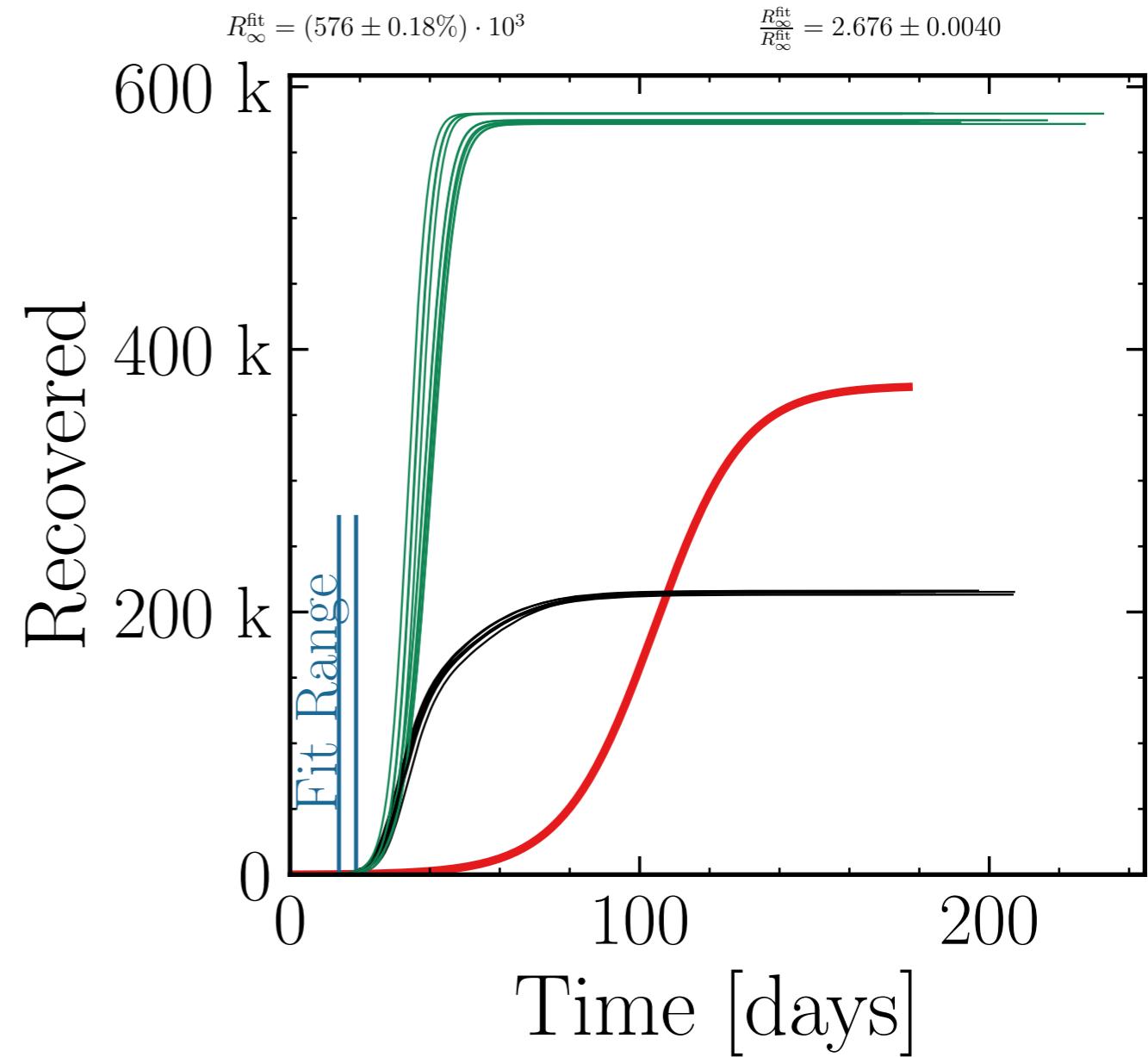
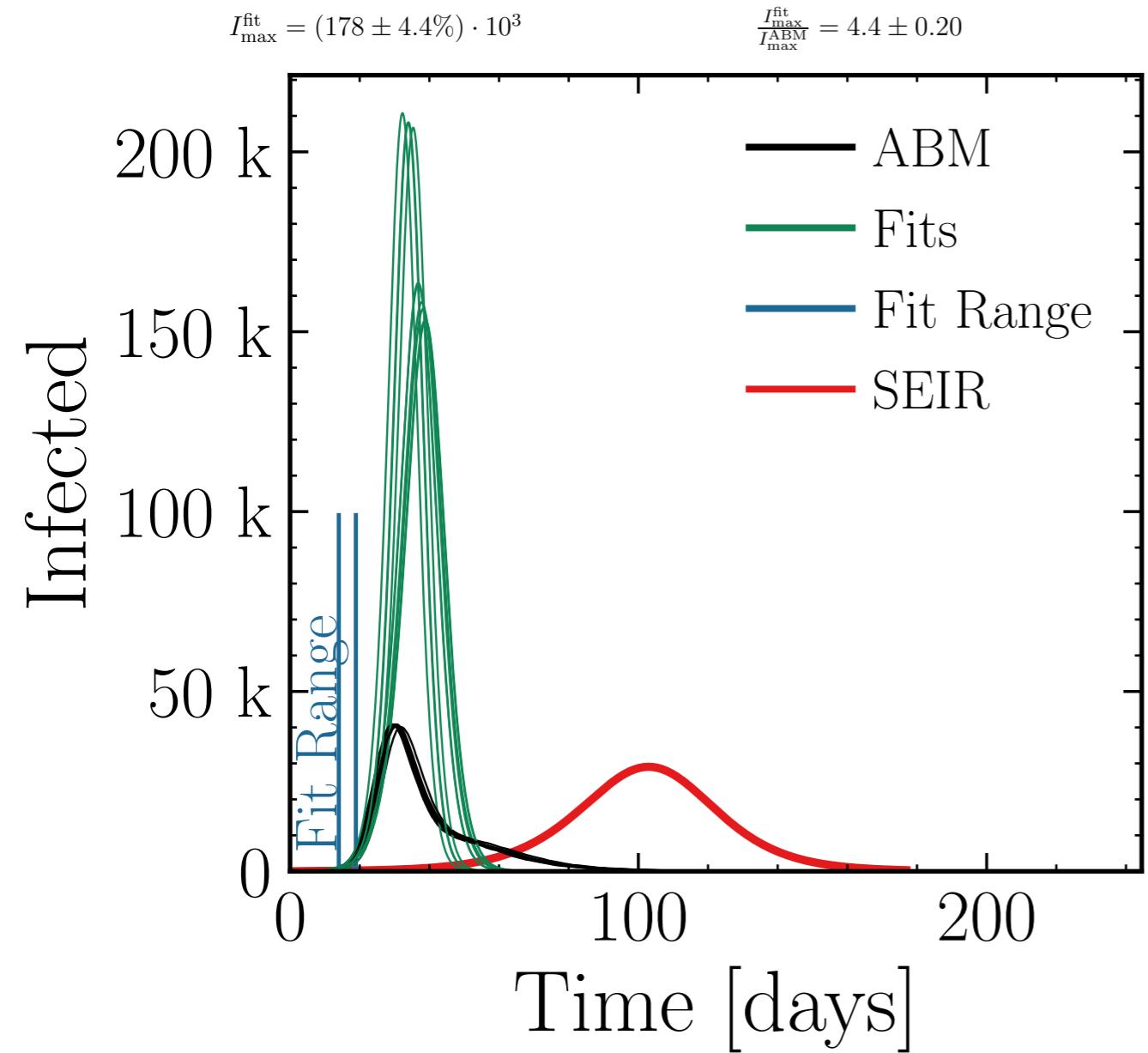
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.716 \pm 0.0028$$



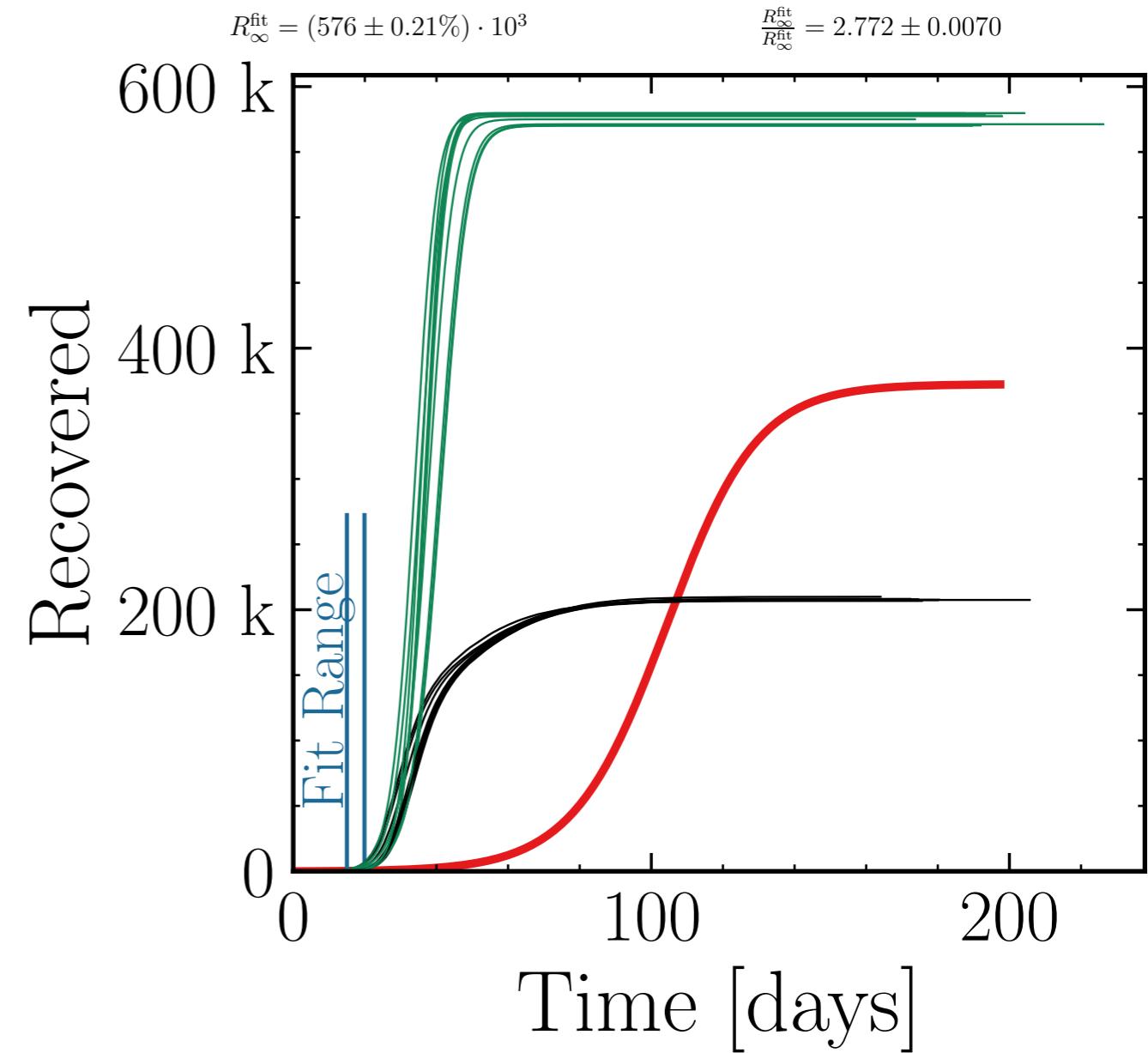
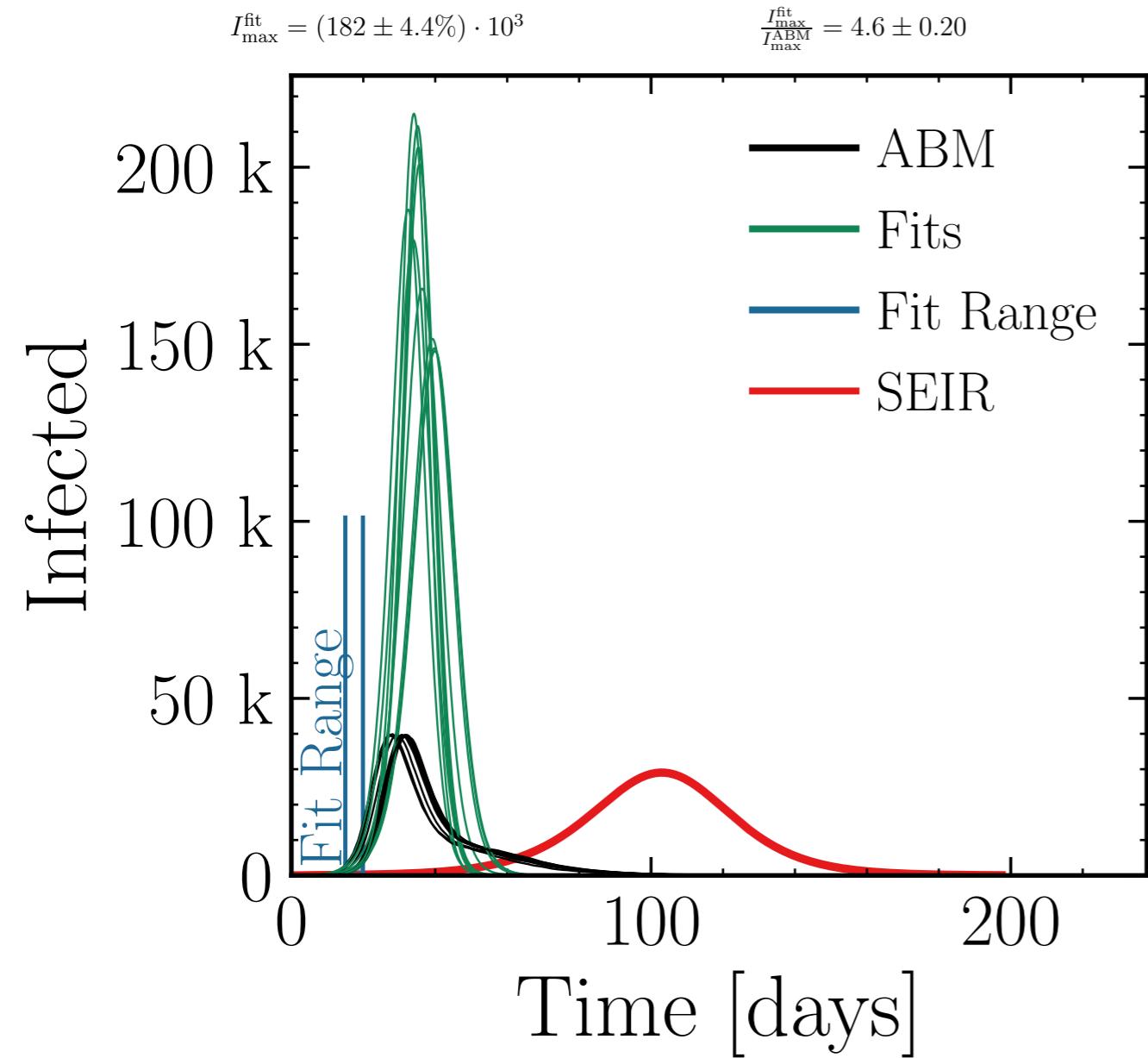
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



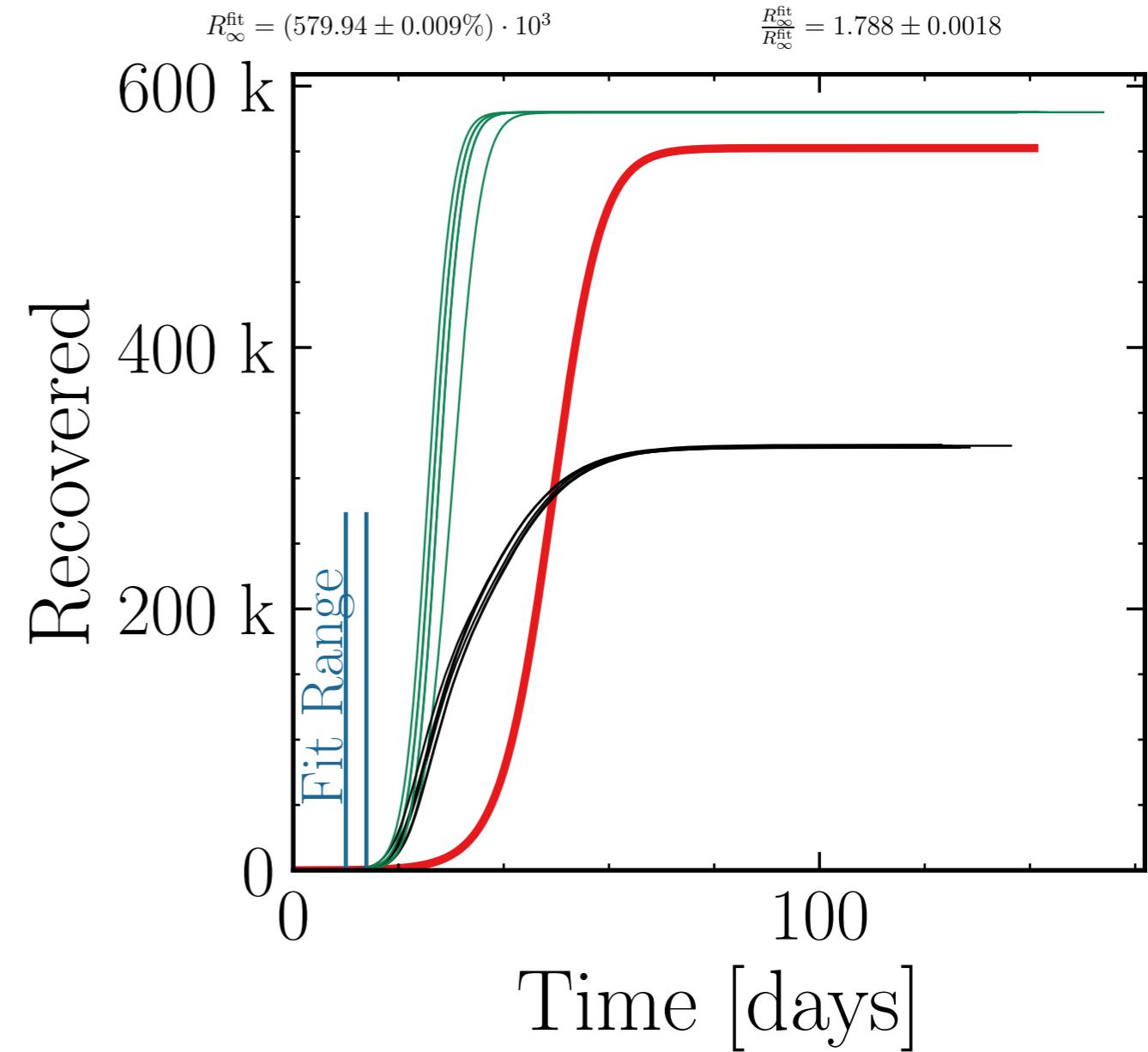
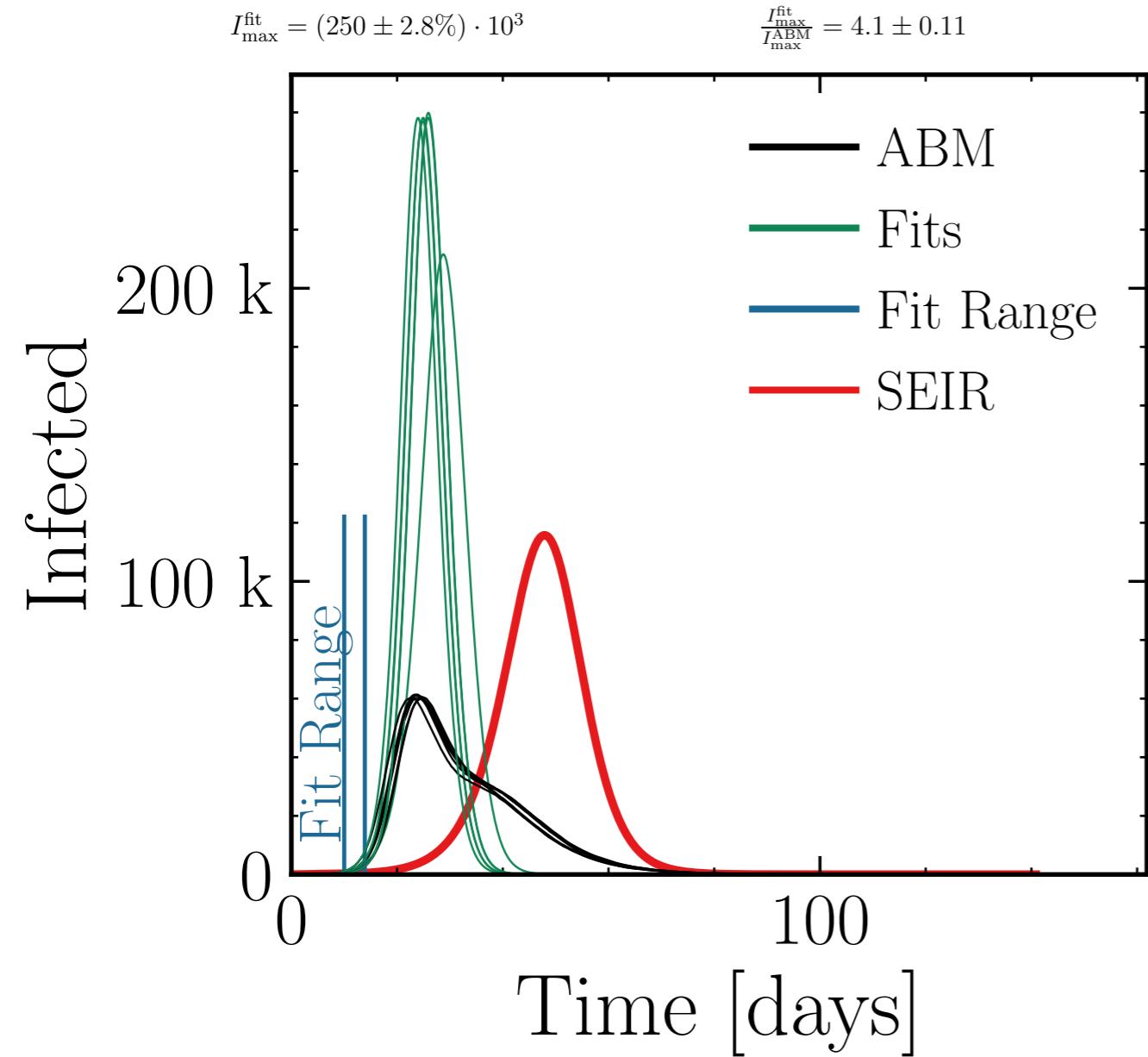
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



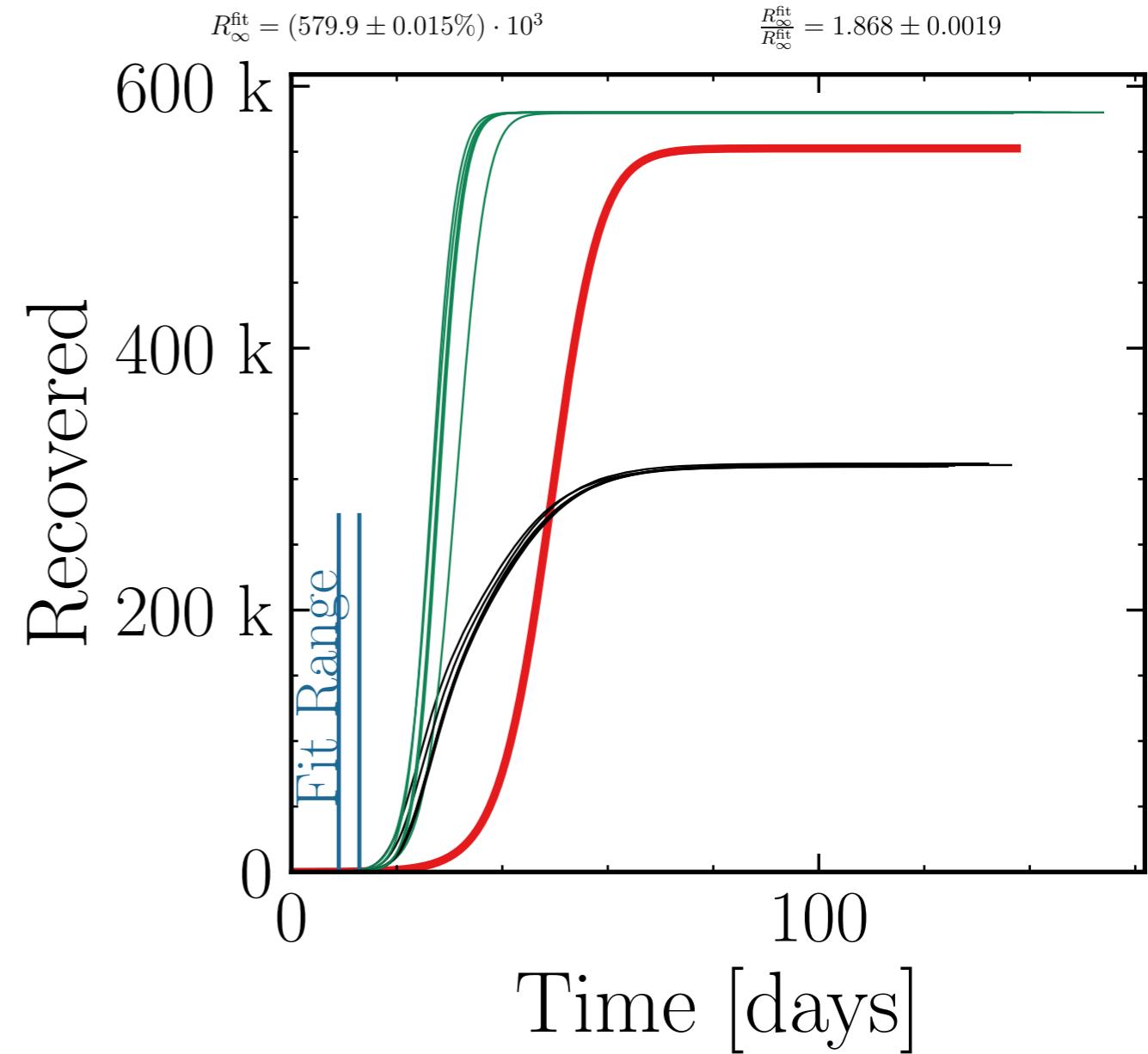
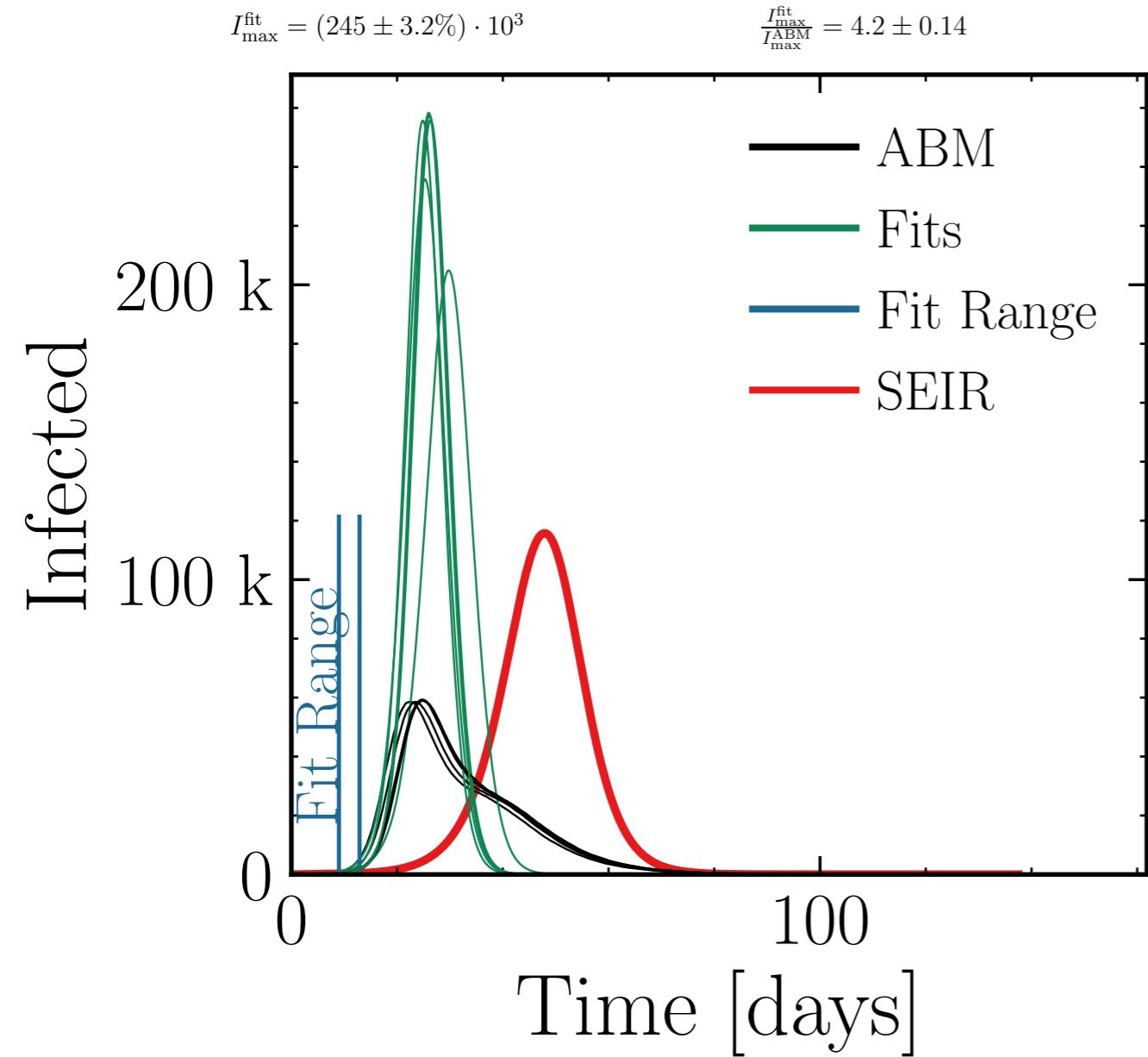
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 20.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.02$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



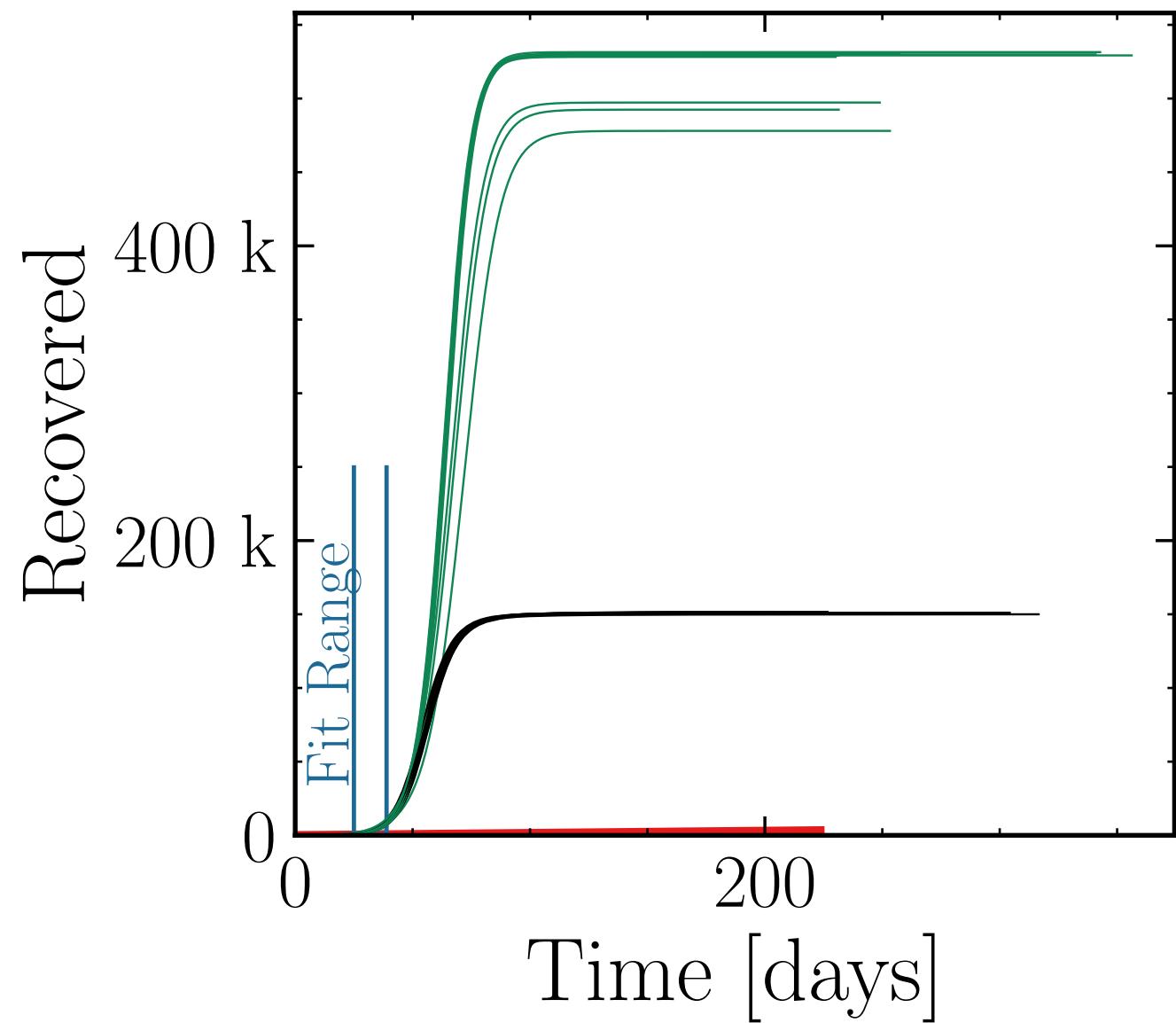
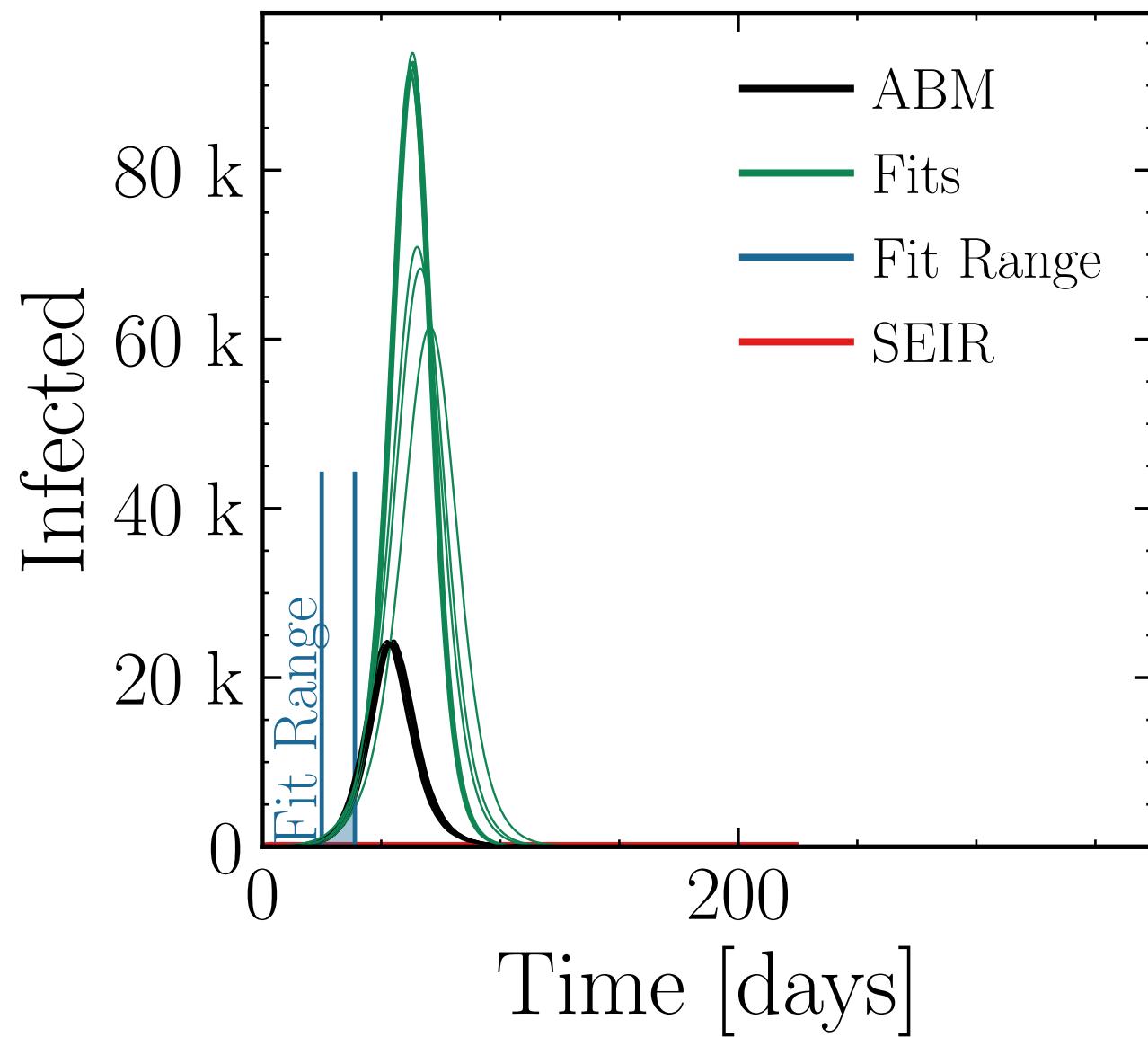
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 25.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (85 \pm 4.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (518 \pm 1.2\%) \cdot 10^3$$

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



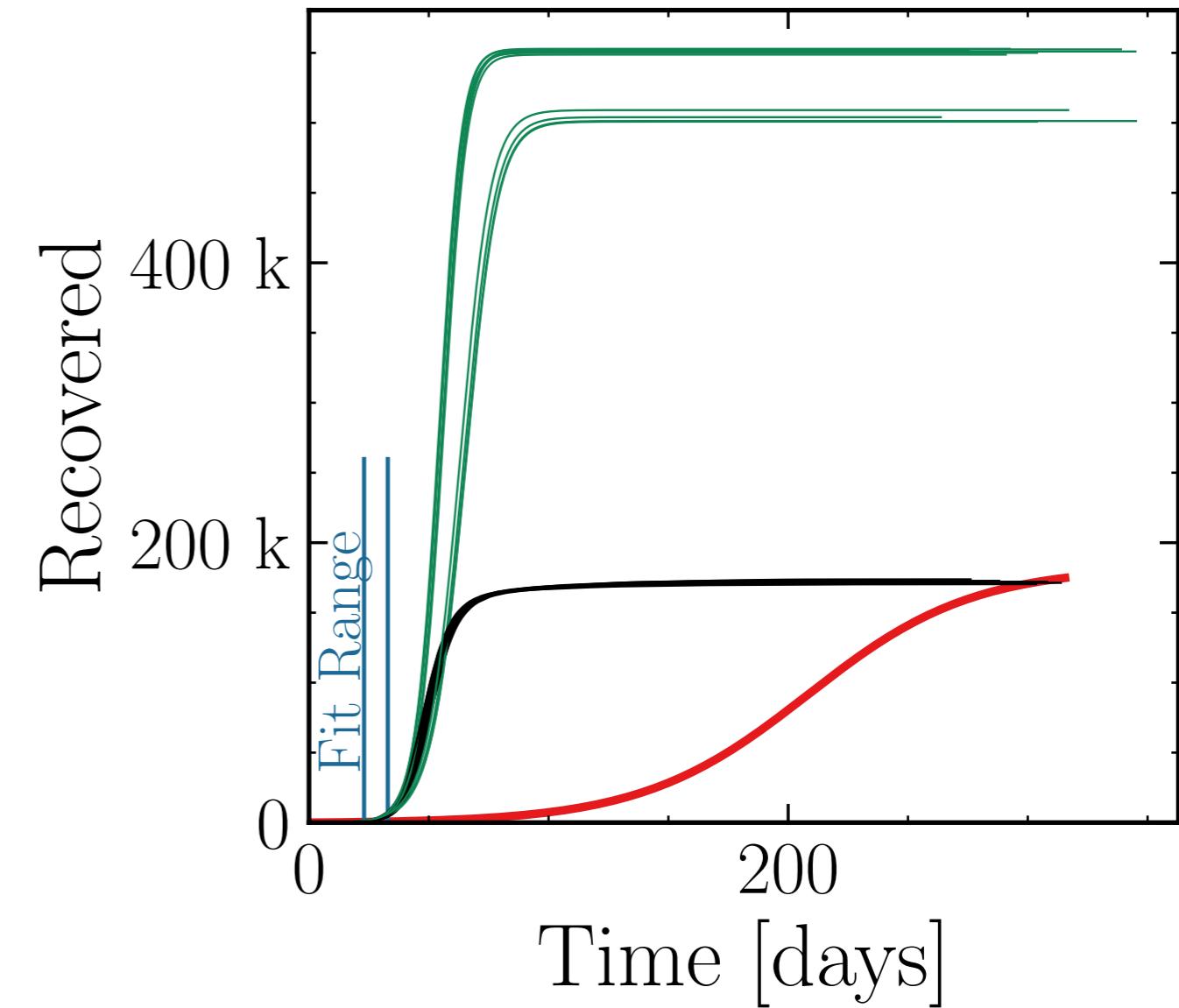
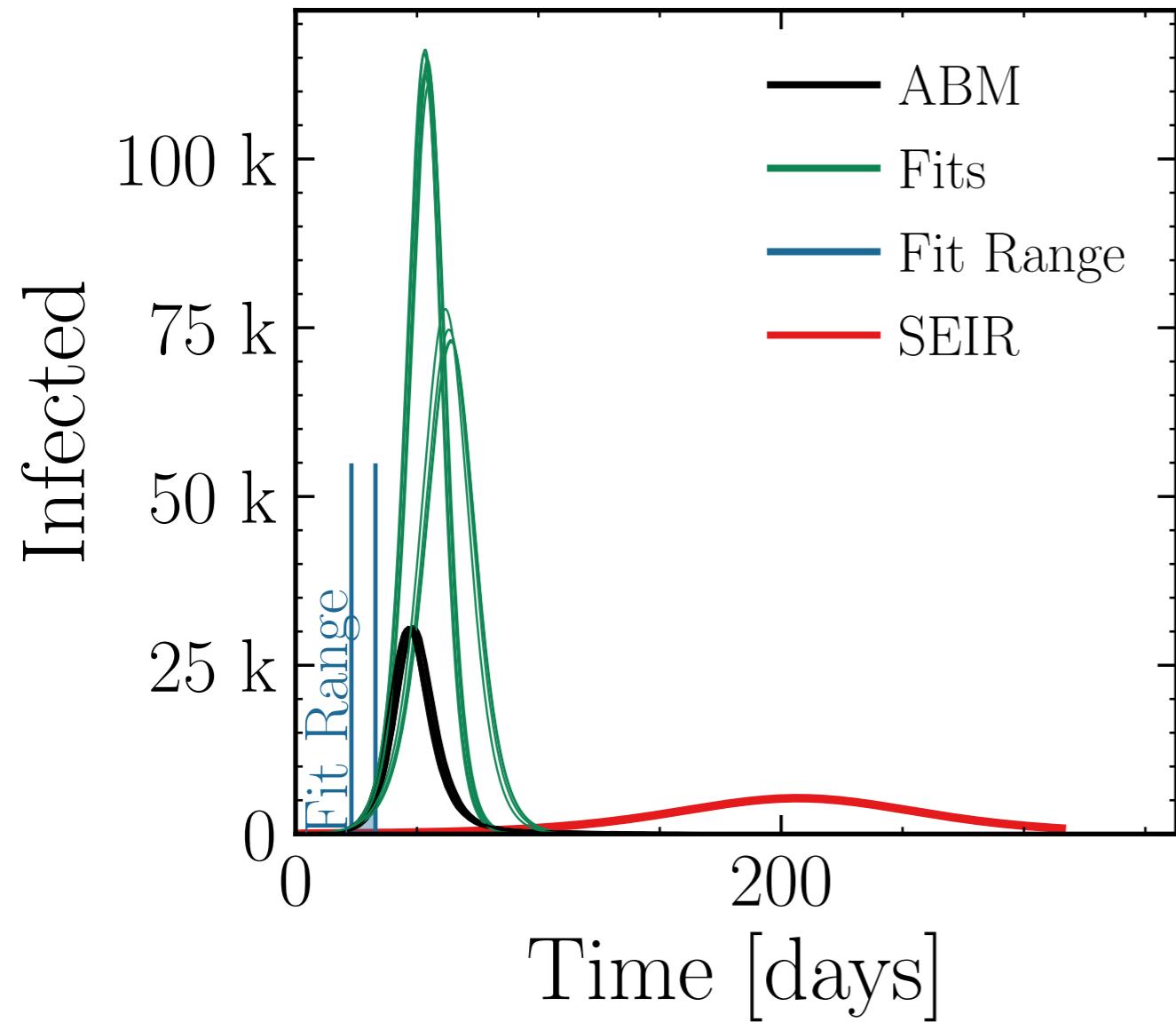
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 30.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (98 \pm 6.2\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (532 \pm 1.4\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.09 \pm 0.045$$



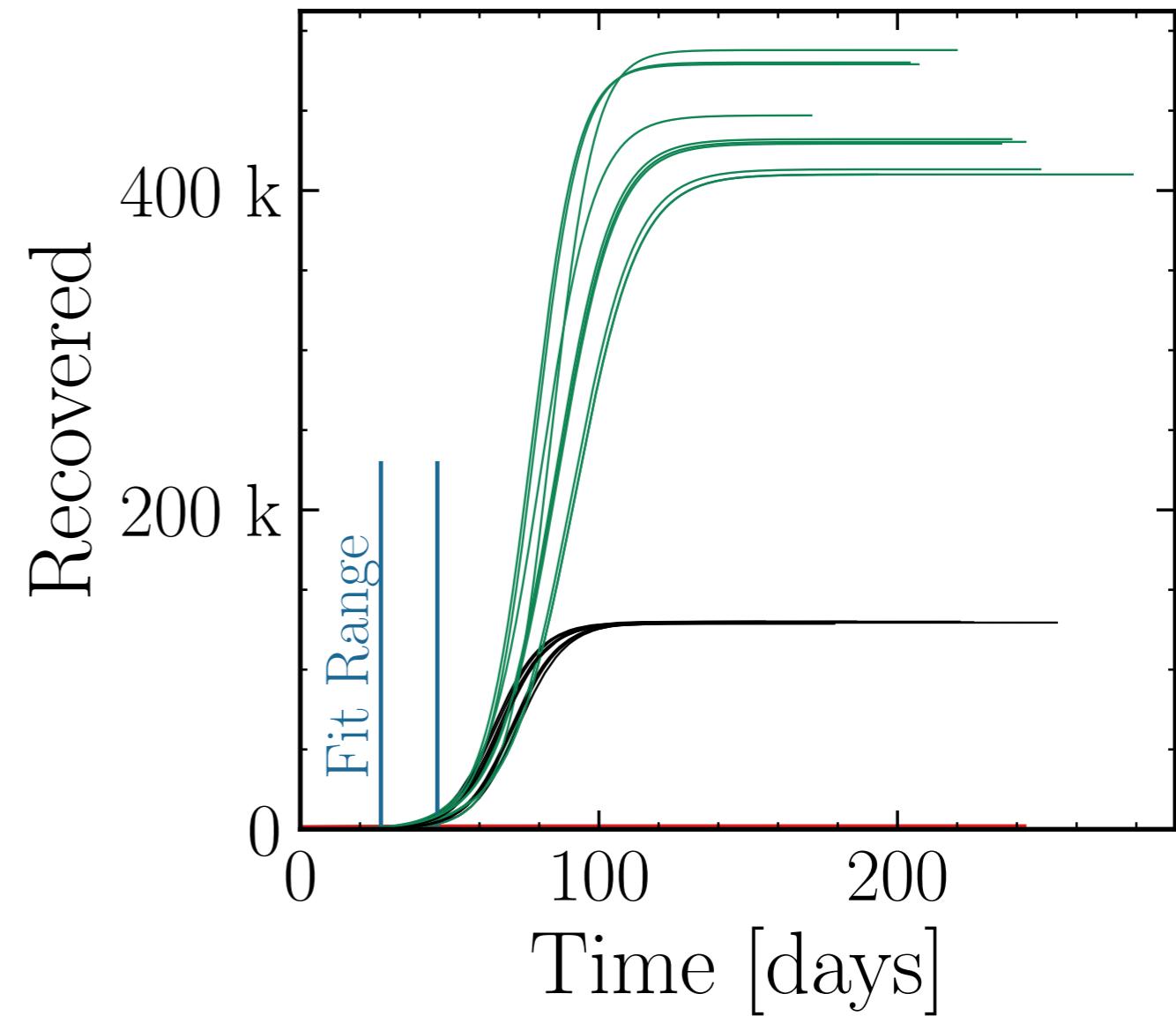
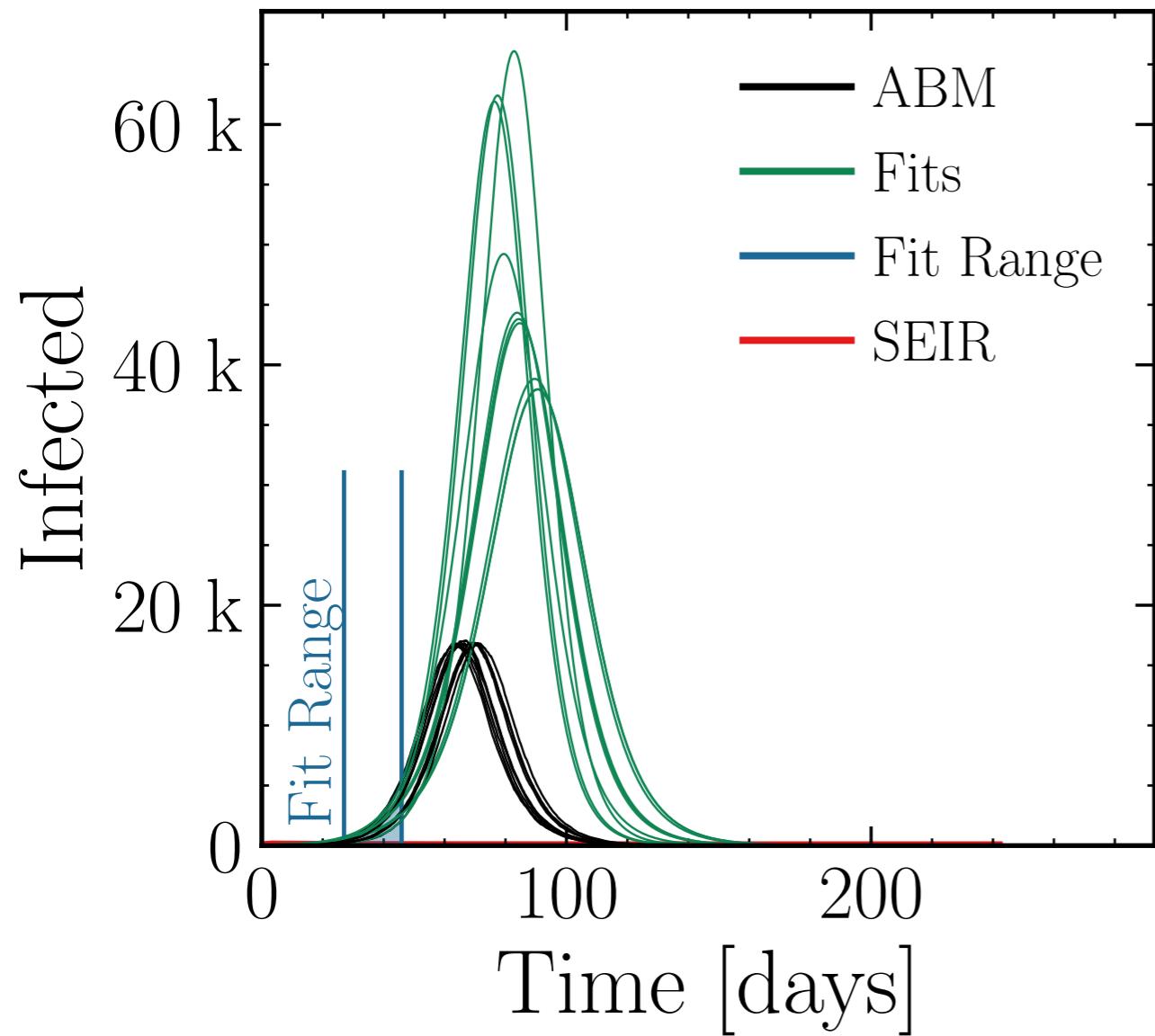
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (49 \pm 6.7\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (442 \pm 2.1\%) \cdot 10^3$$

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



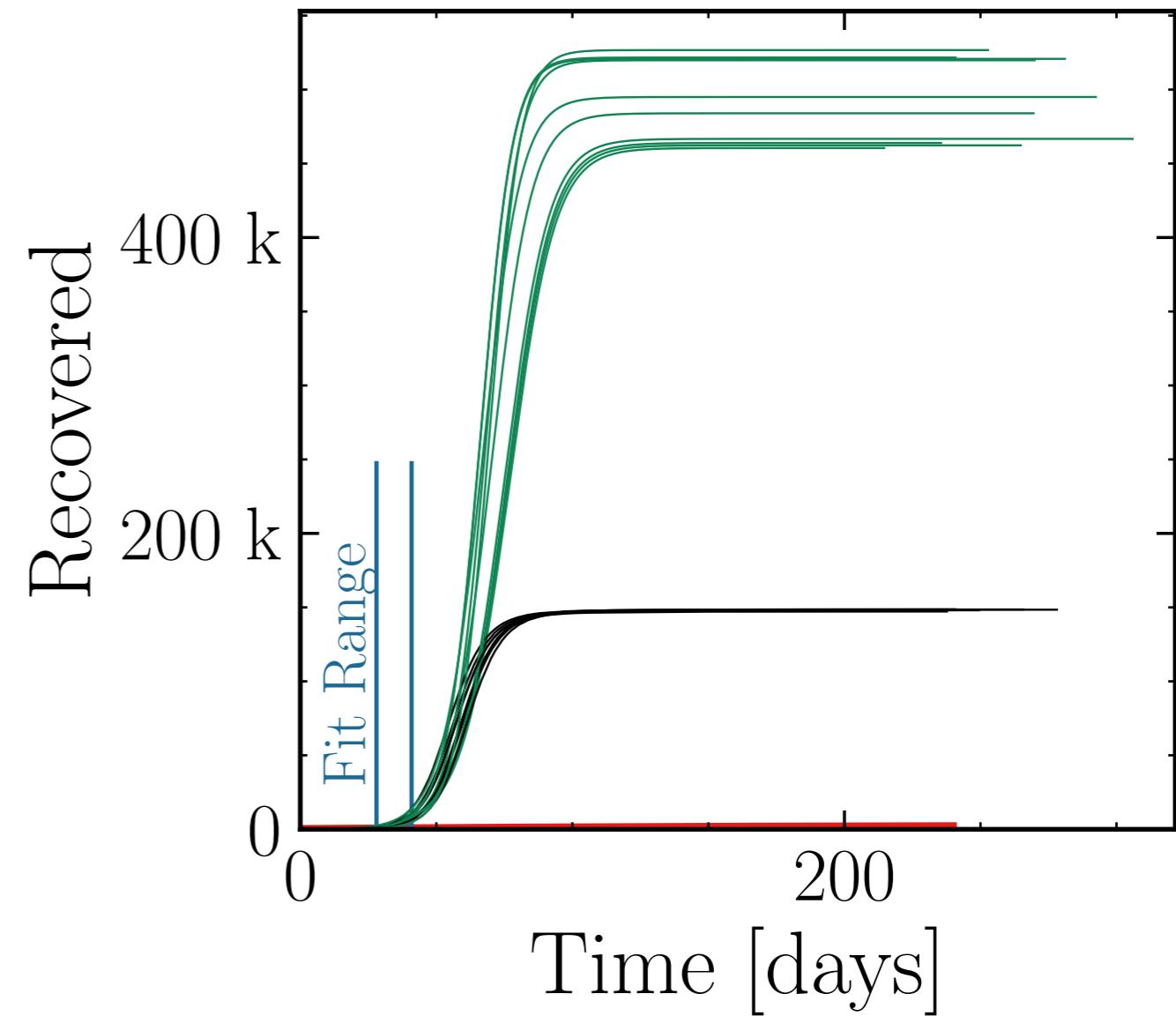
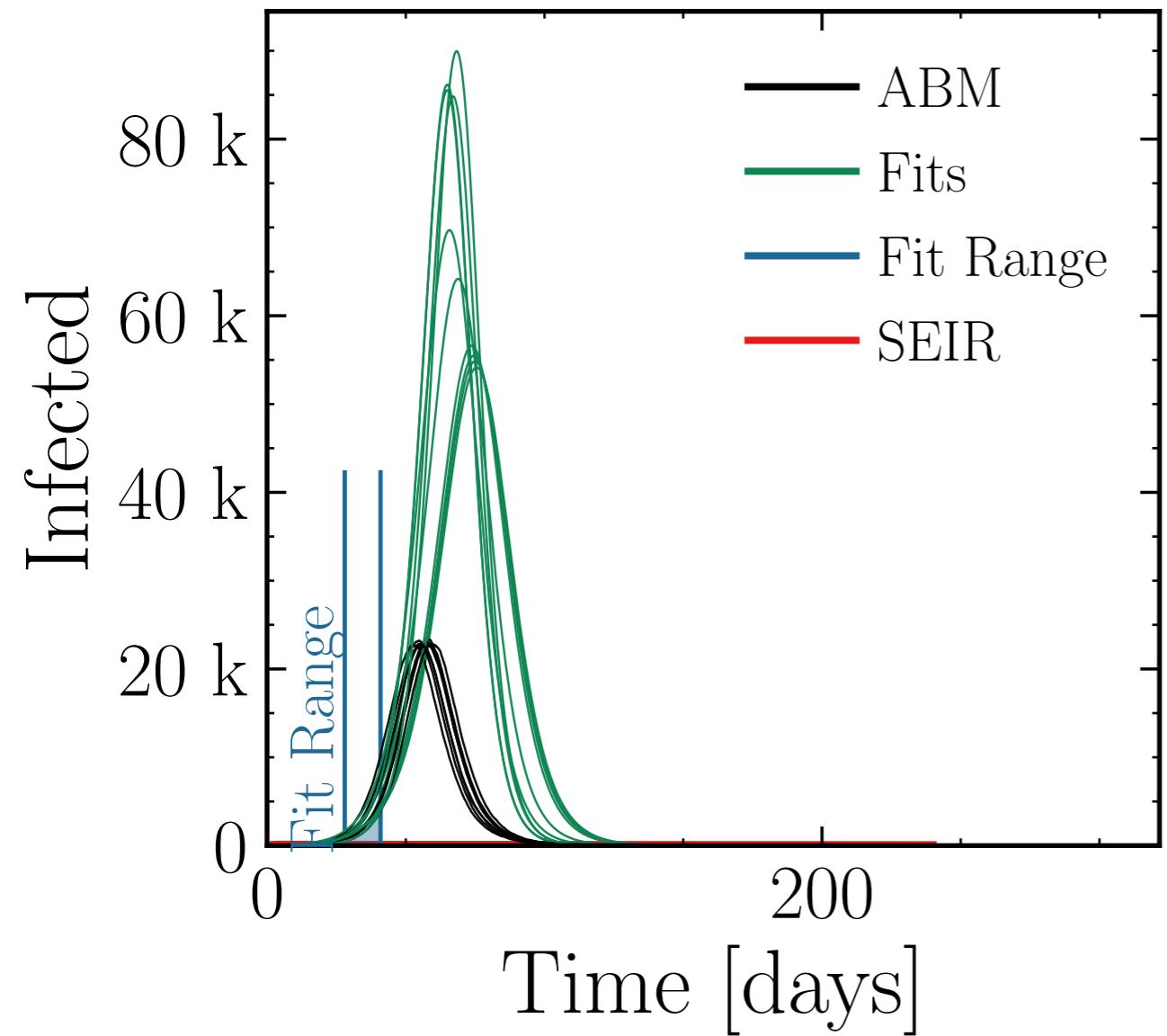
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.006$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{fit}} = (70 \pm 6.4\%) \cdot 10^3$$

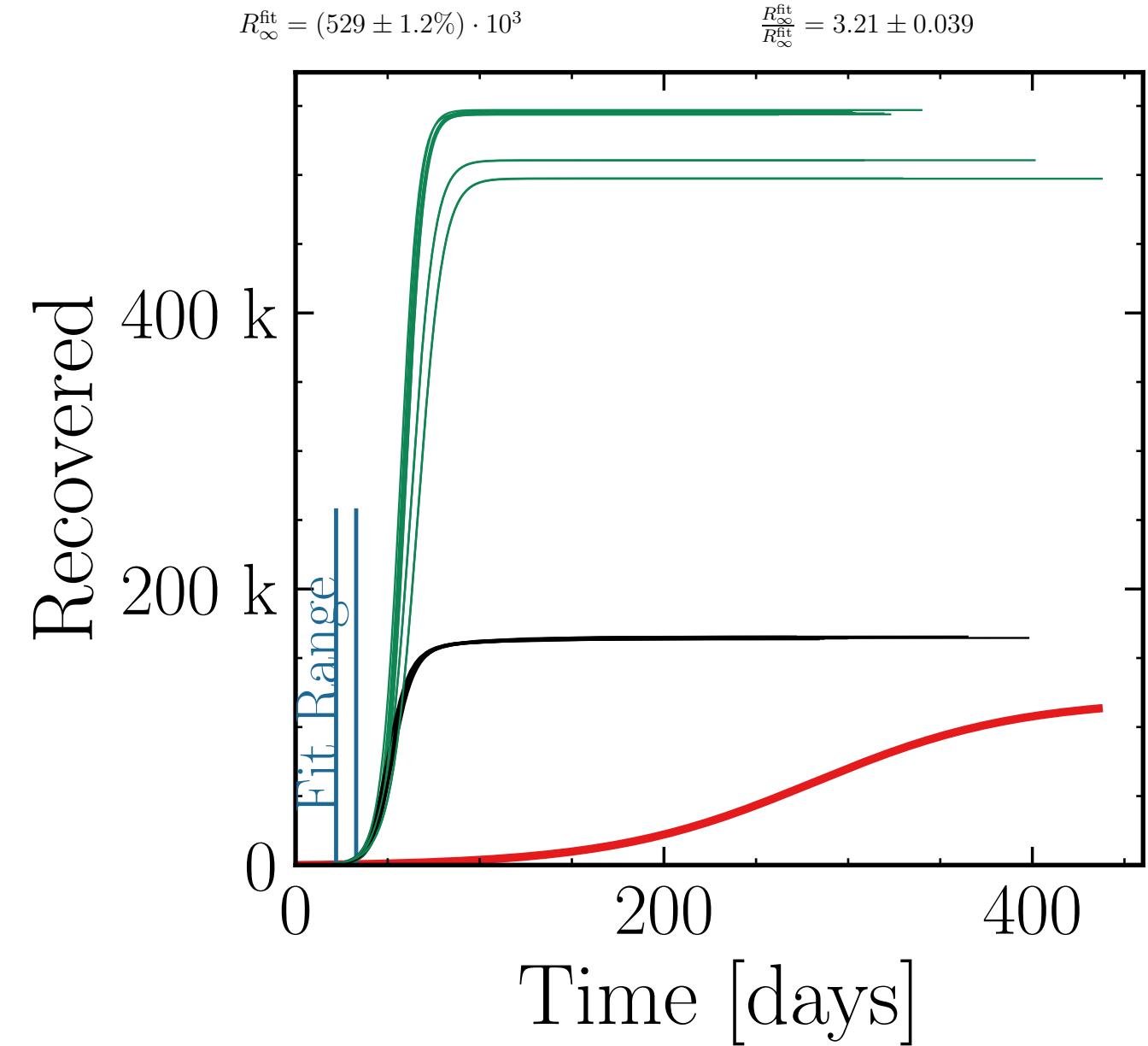
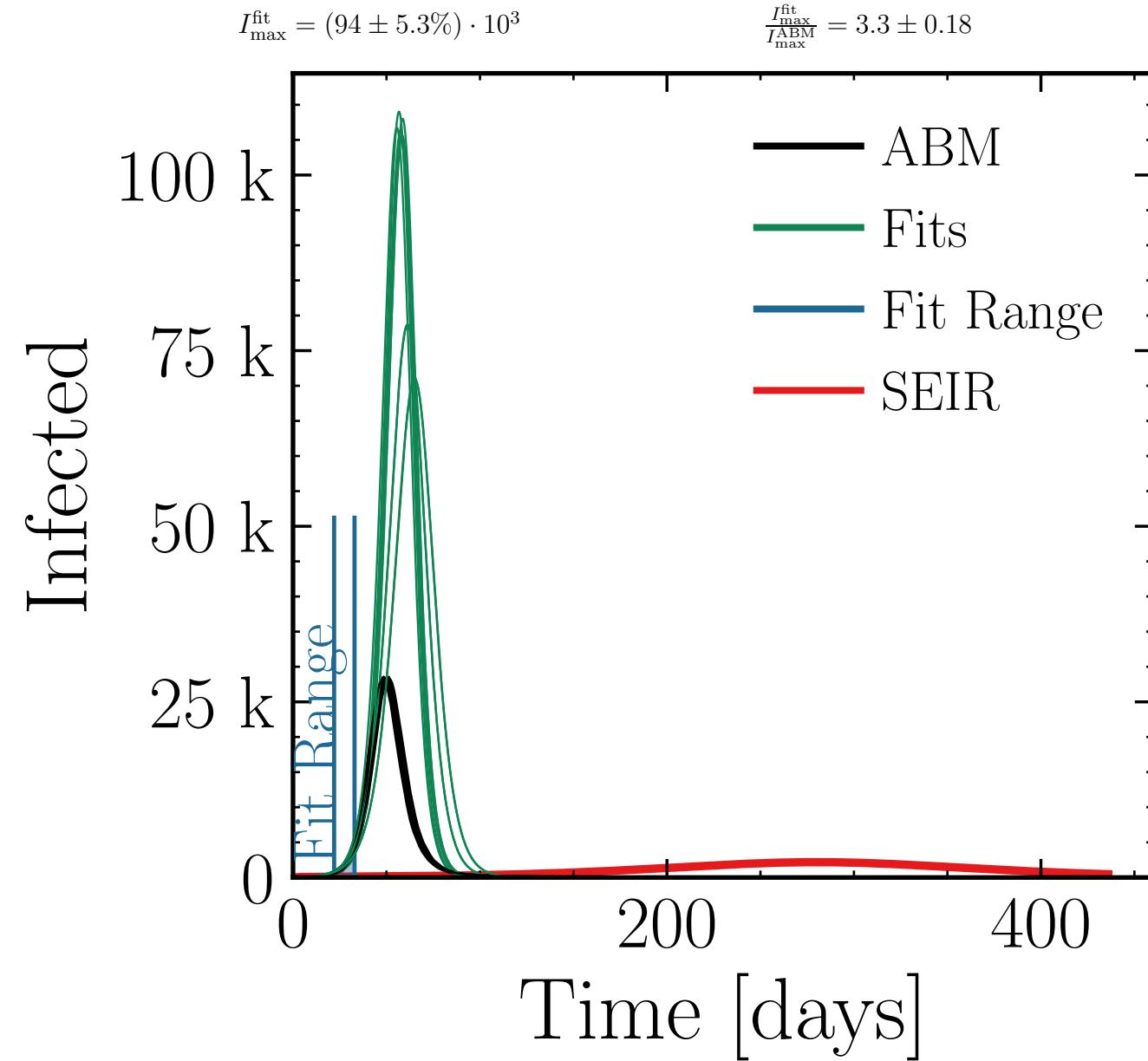
$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 3.1 \pm 0.20$$

$$R_{\infty}^{\text{fit}} = (492 \pm 1.7\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 3.32 \pm 0.058$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.007$ ,  $\sigma_\beta = 0.0$ , 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



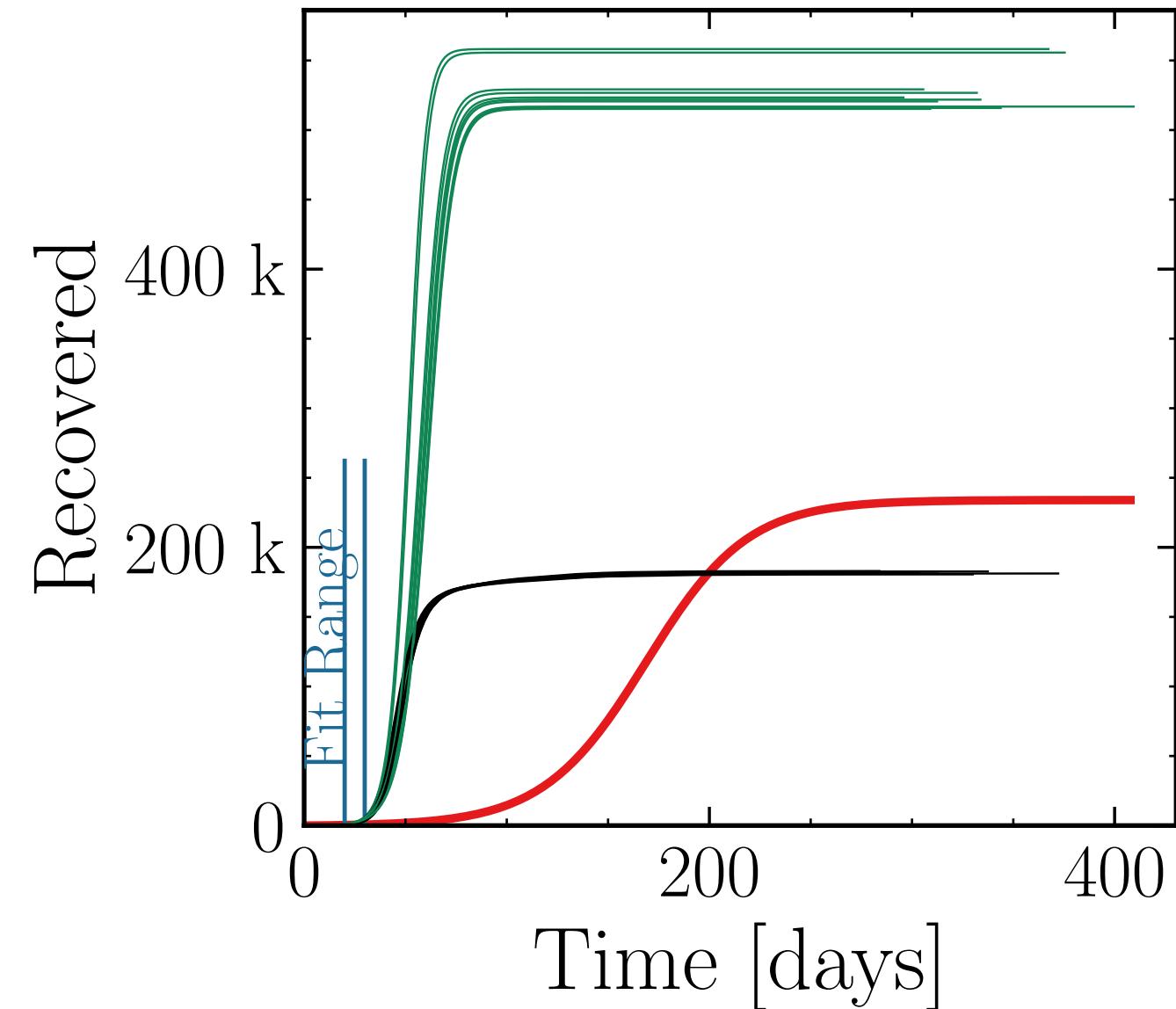
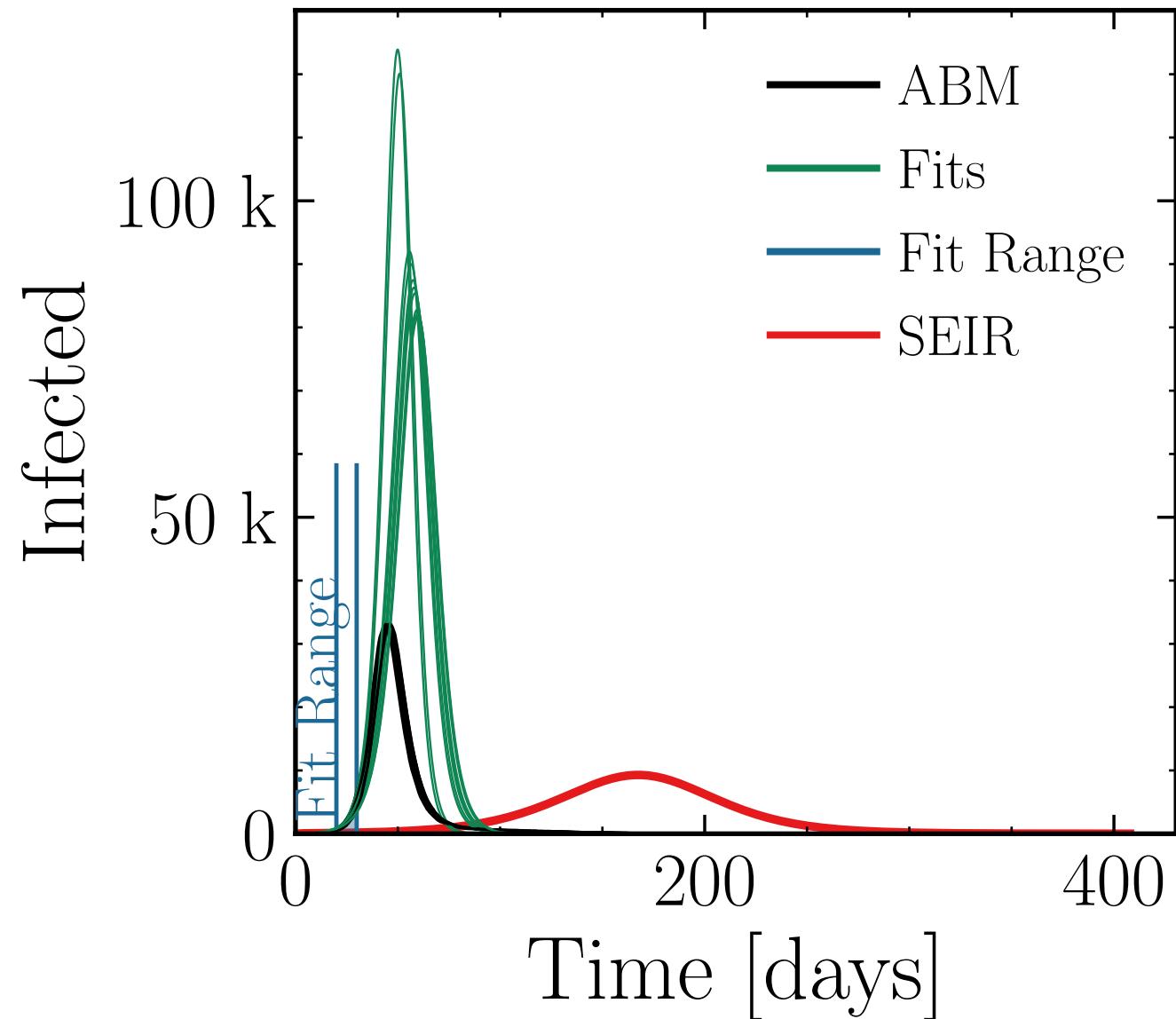
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.008$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (93 \pm 5.0\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.8 \pm 0.15$$

$$R_{\infty}^{\text{fit}} = (528 \pm 0.9\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.9 \pm 0.027$$



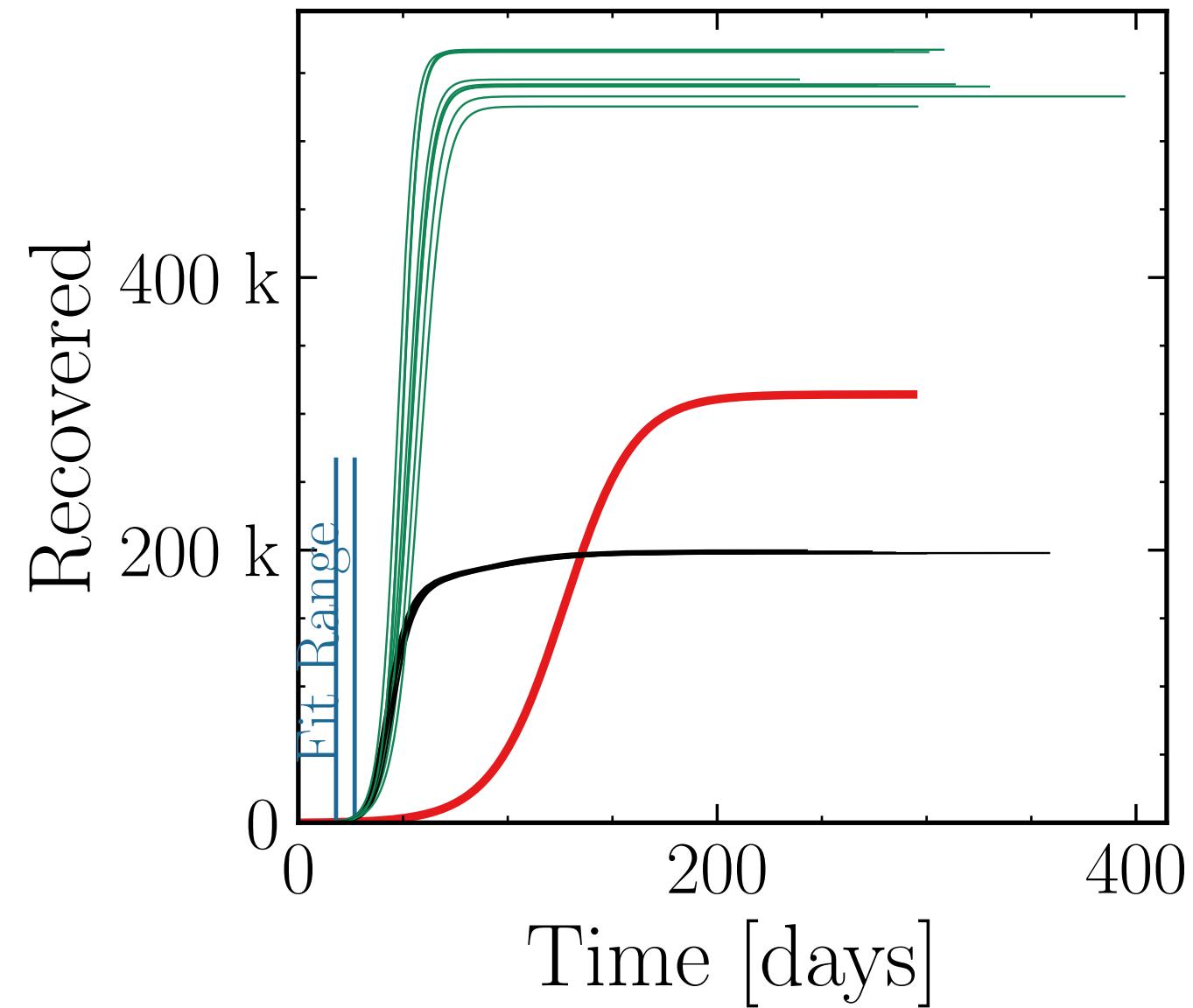
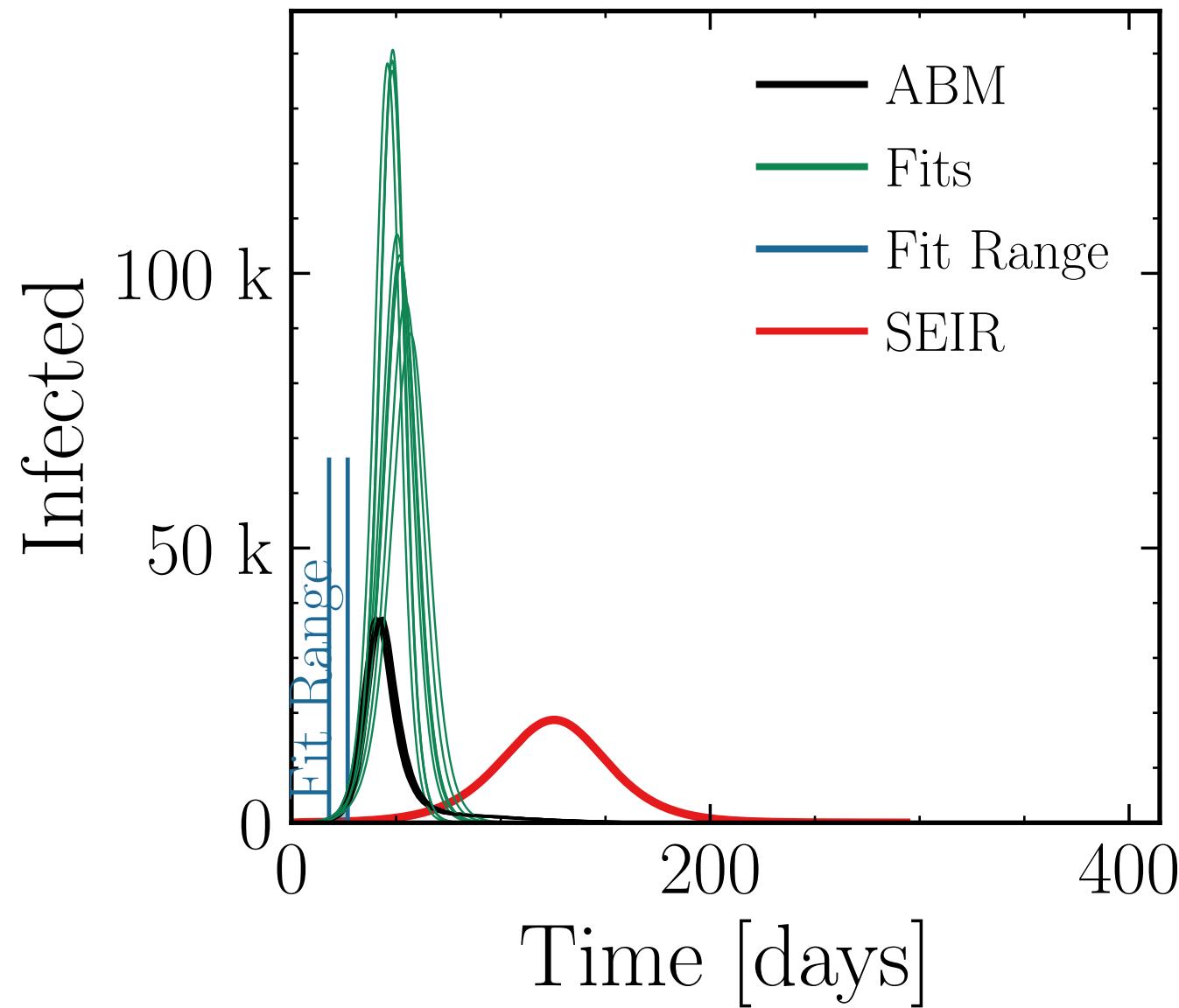
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.009$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (115 \pm 5.4\%) \cdot 10^3$$

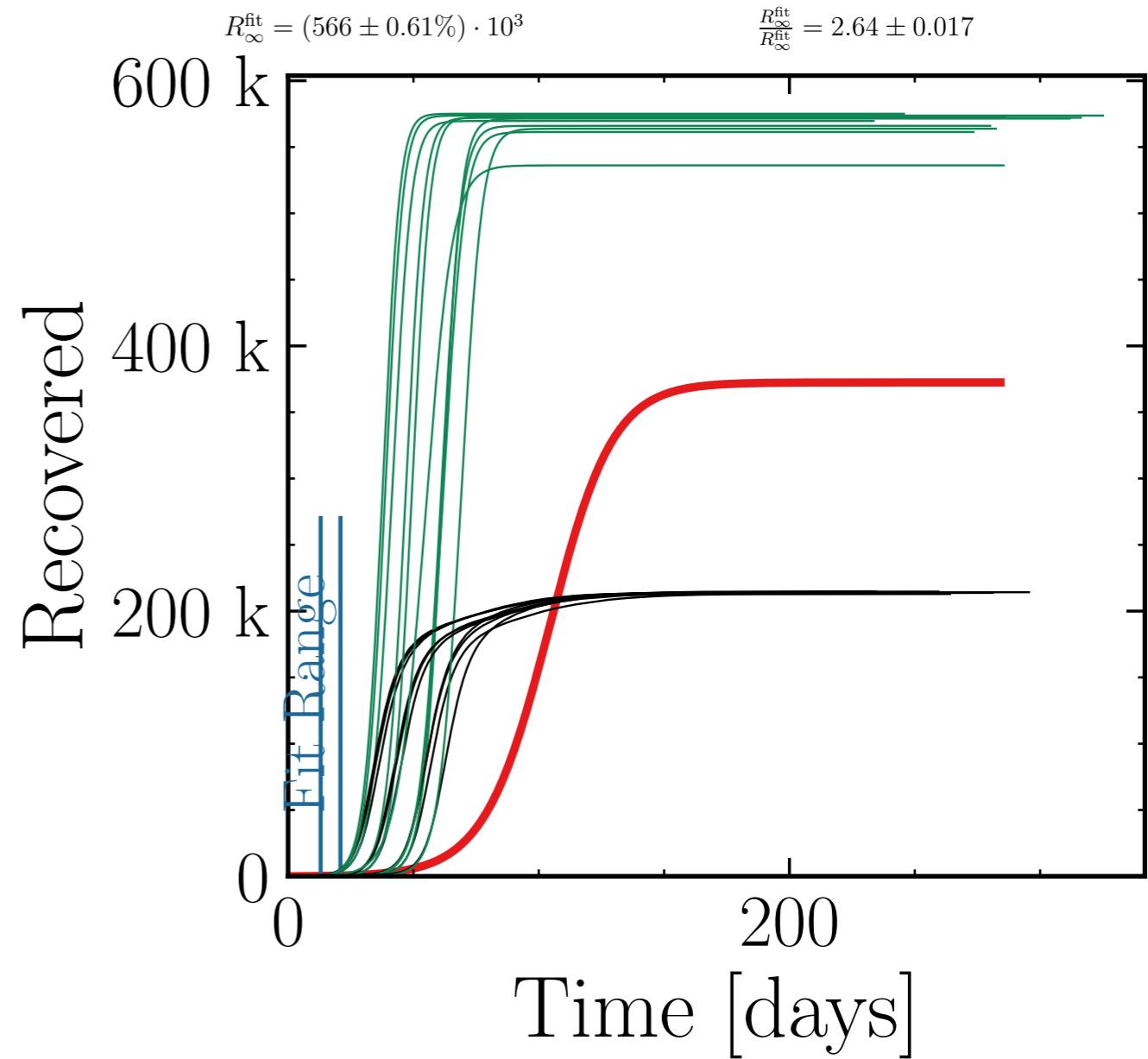
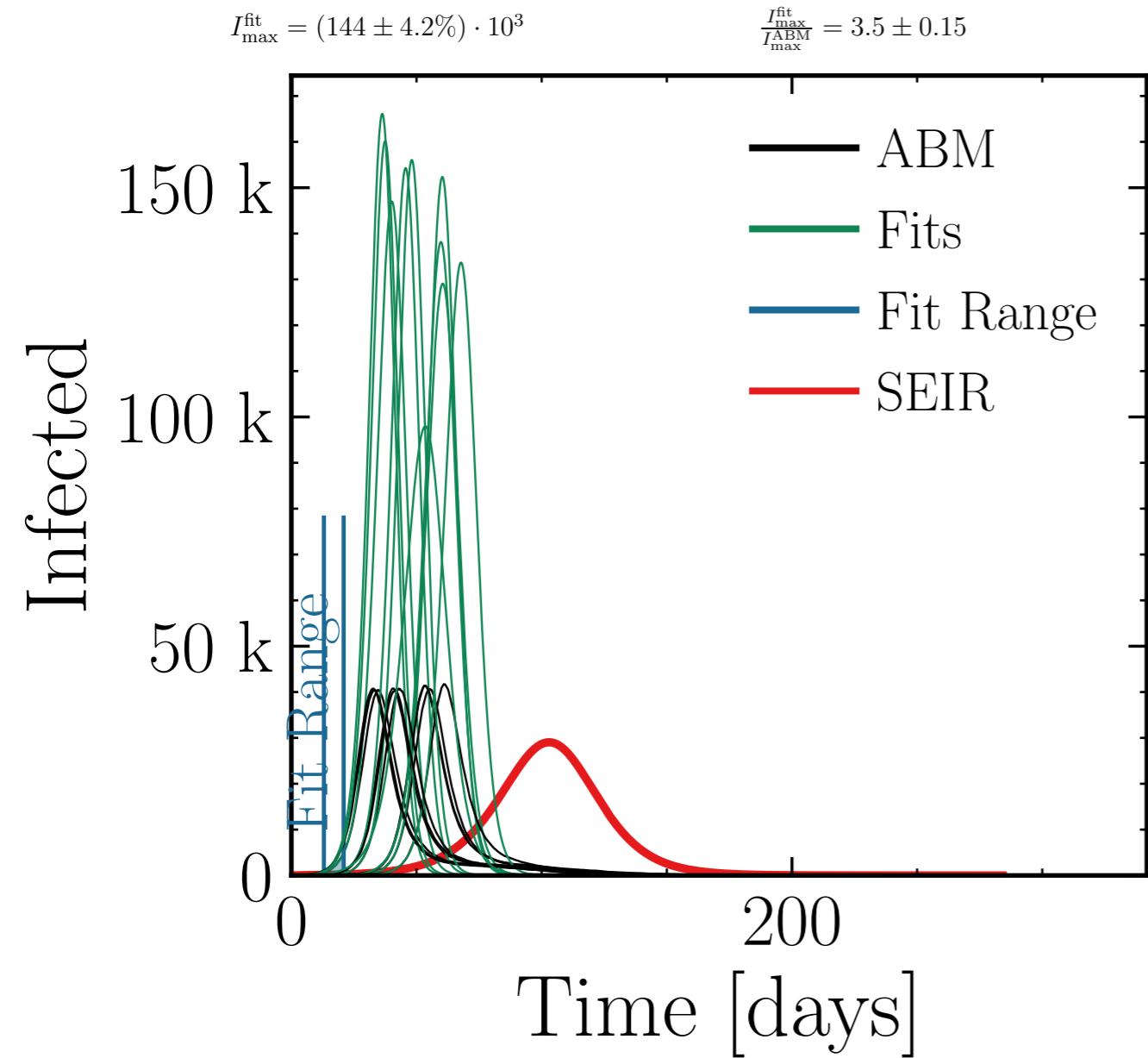
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.1 \pm 0.17$$

$$R_{\infty}^{\text{fit}} = (549 \pm 0.86\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.77 \pm 0.022$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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



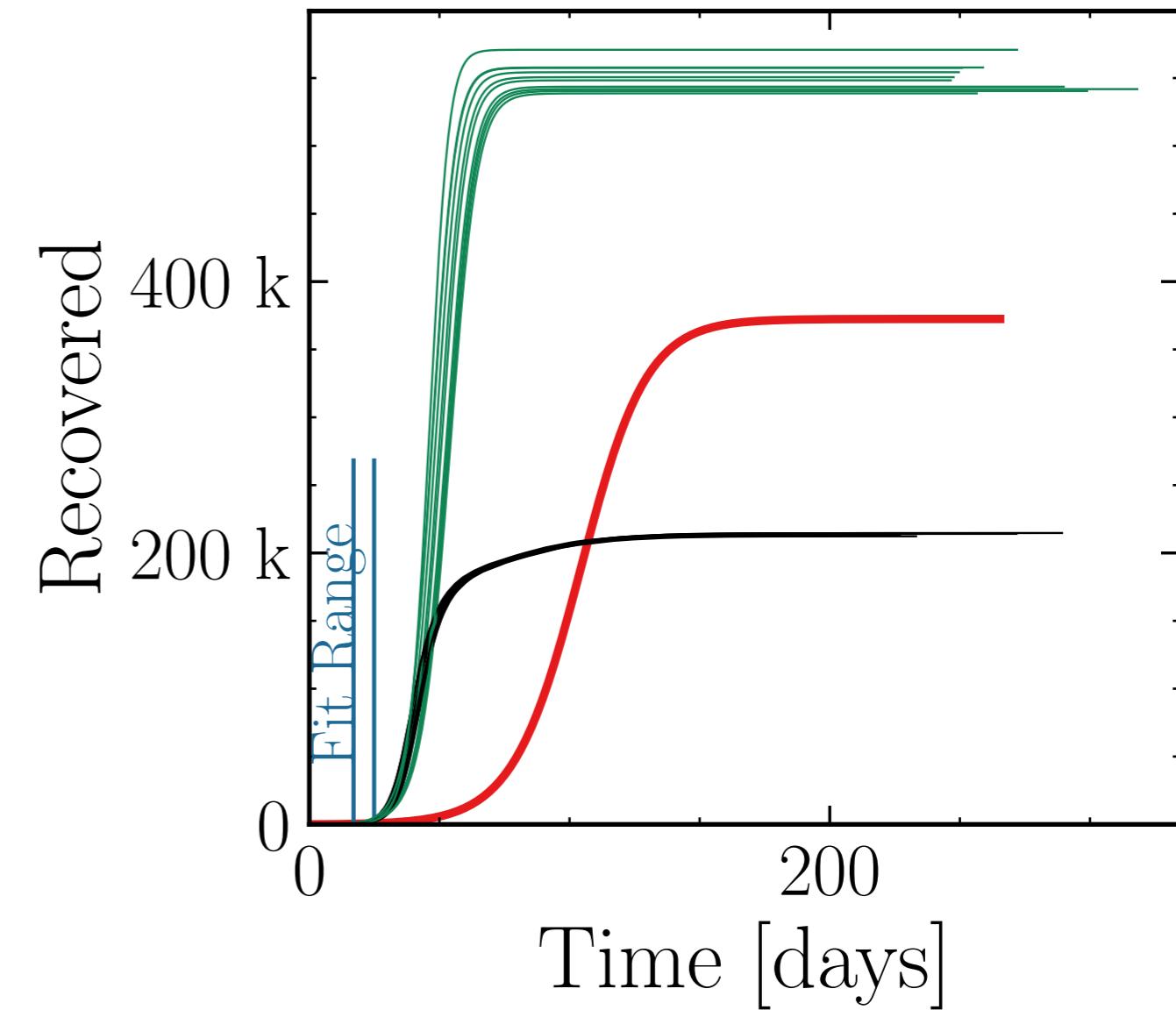
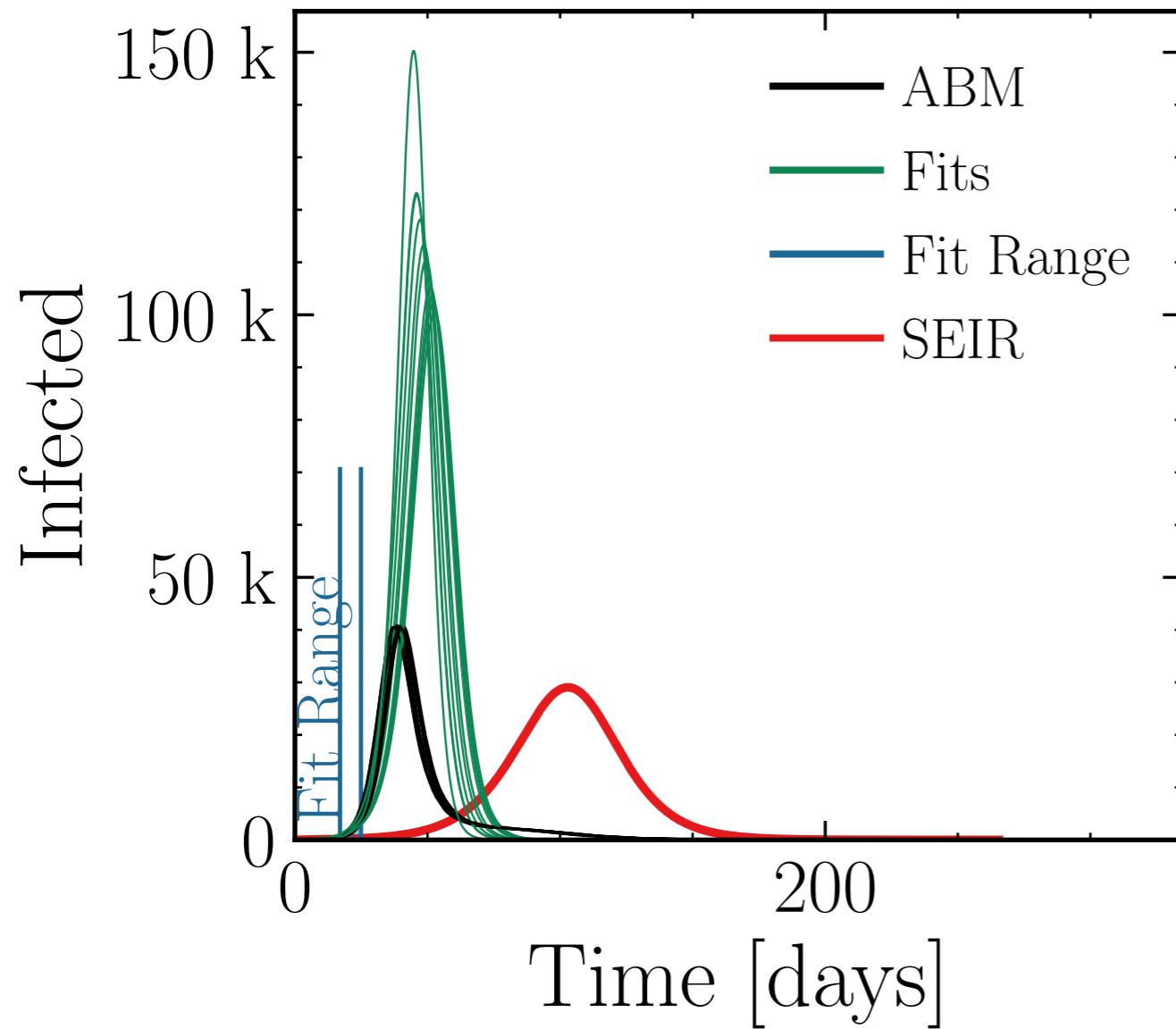
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (115 \pm 3.9\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.8 \pm 0.11$$

$$R_{\infty}^{\text{fit}} = (550 \pm 0.54\%) \cdot 10^3$$

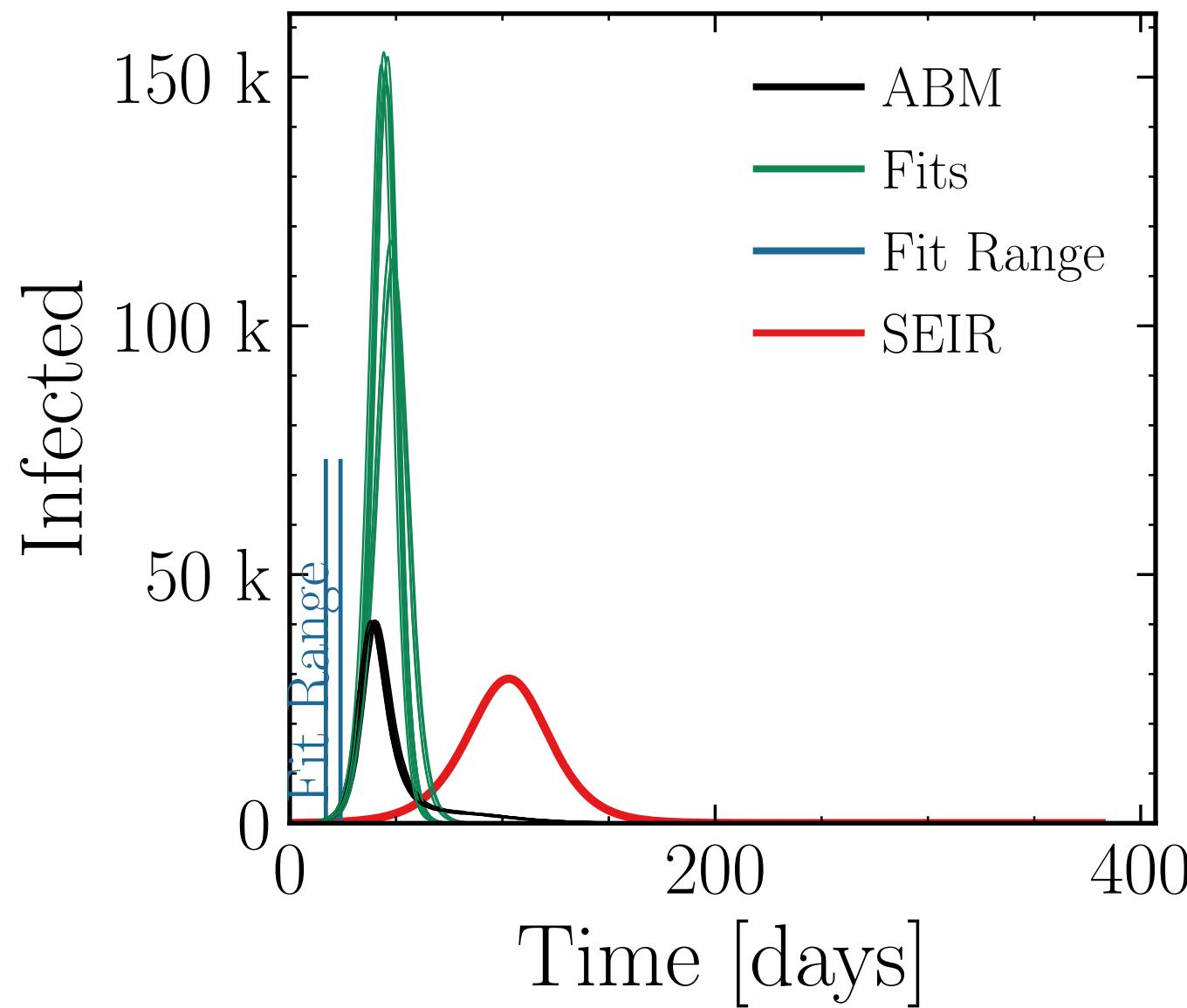
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.57 \pm 0.013$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , 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

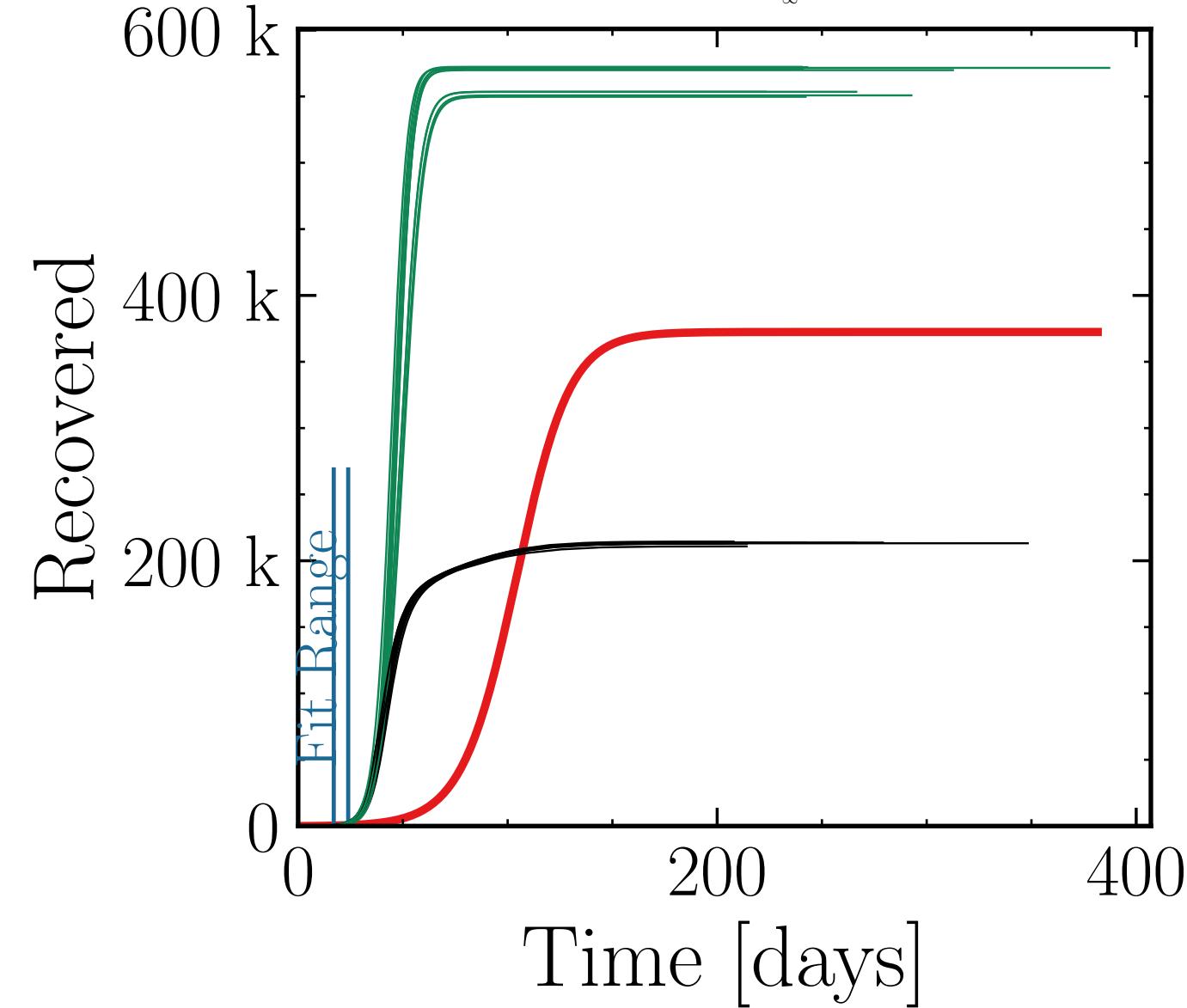
$$I_{\max}^{\text{fit}} = (137 \pm 4.2\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.4 \pm 0.14$$



$$R_{\infty}^{\text{fit}} = (563 \pm 0.54\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.64 \pm 0.015$$



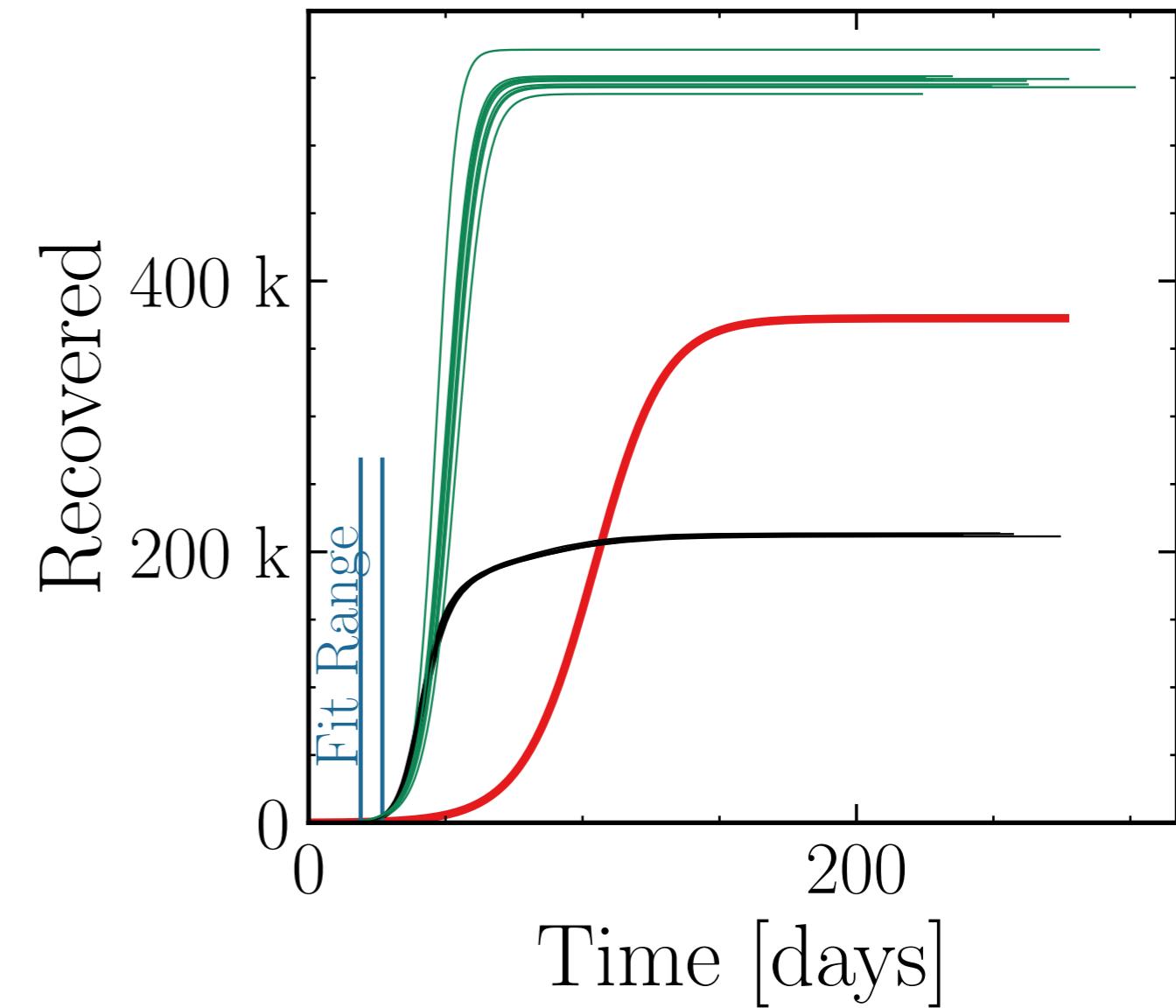
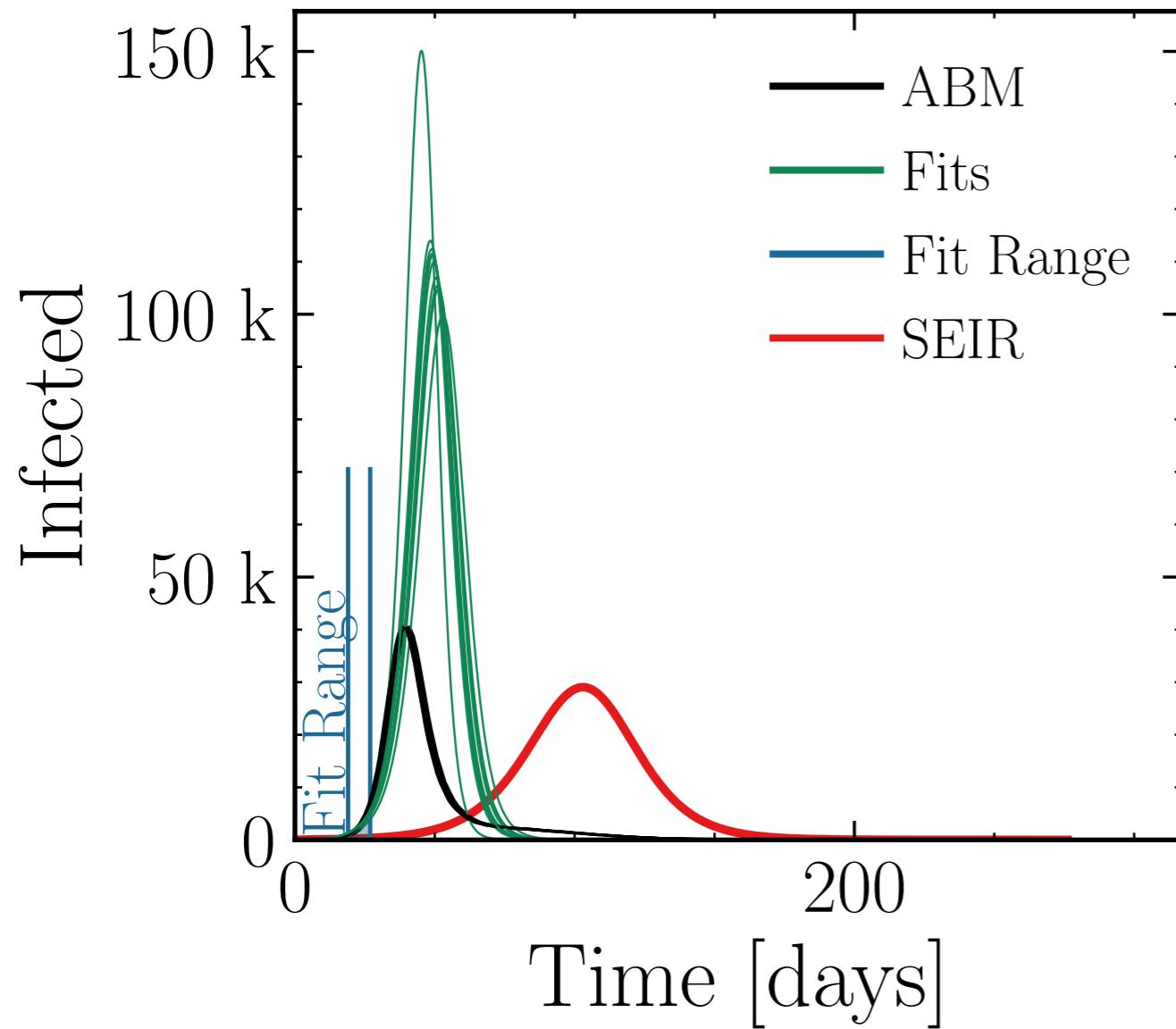
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (113 \pm 3.7\%) \cdot 10^3$$

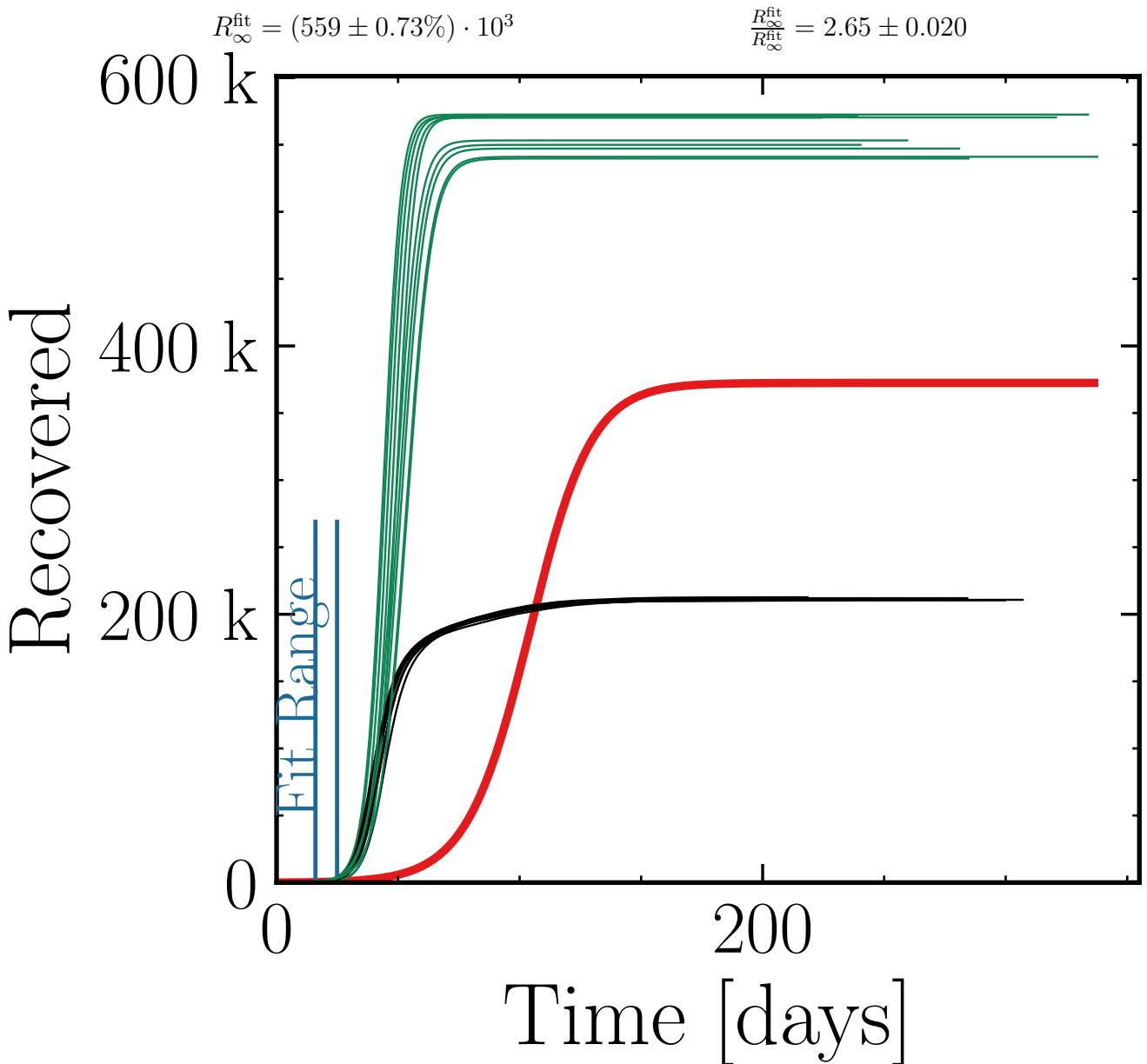
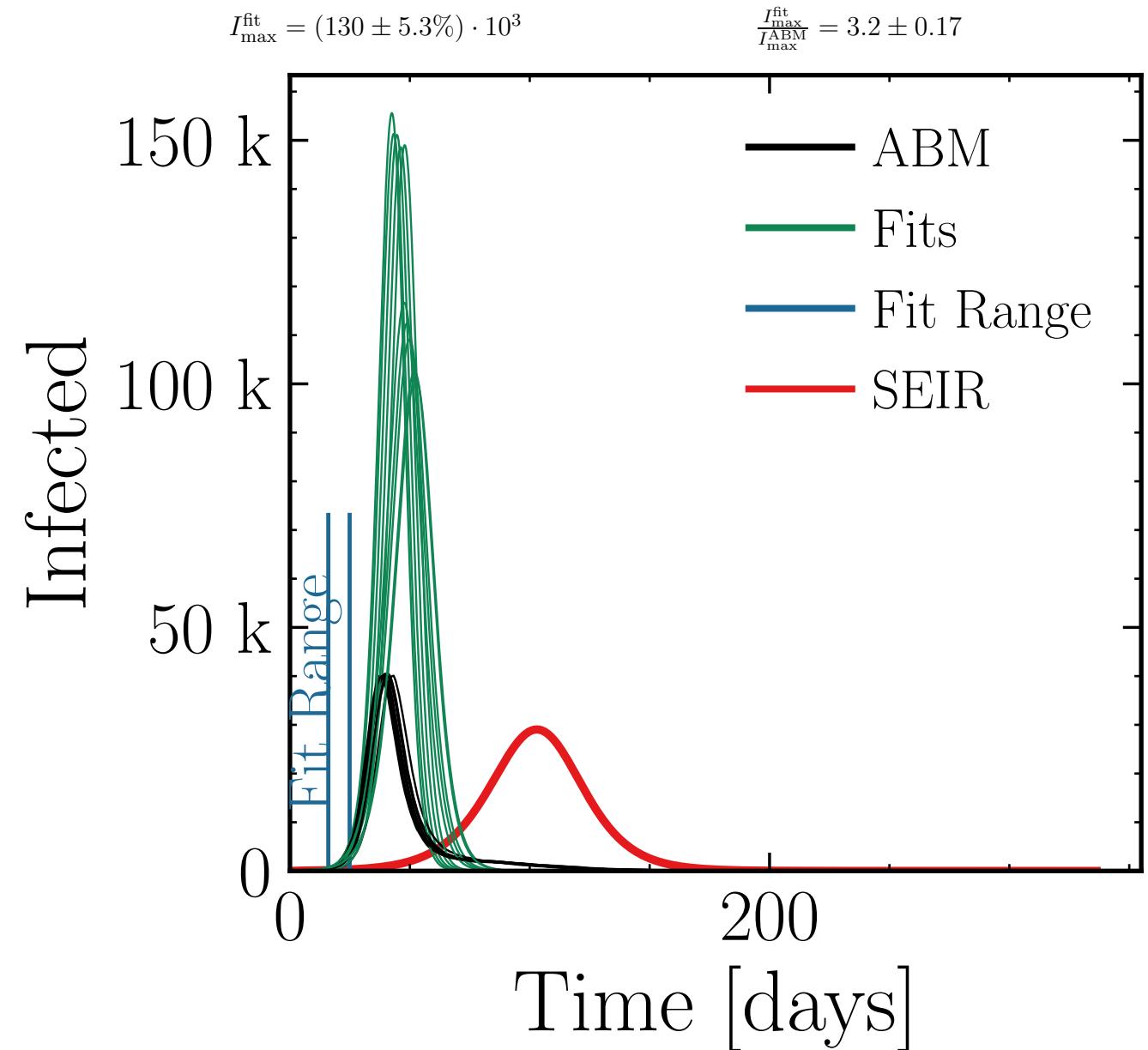
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.8 \pm 0.11$$

$$R_{\infty}^{\text{fit}} = (549 \pm 0.47\%) \cdot 10^3$$

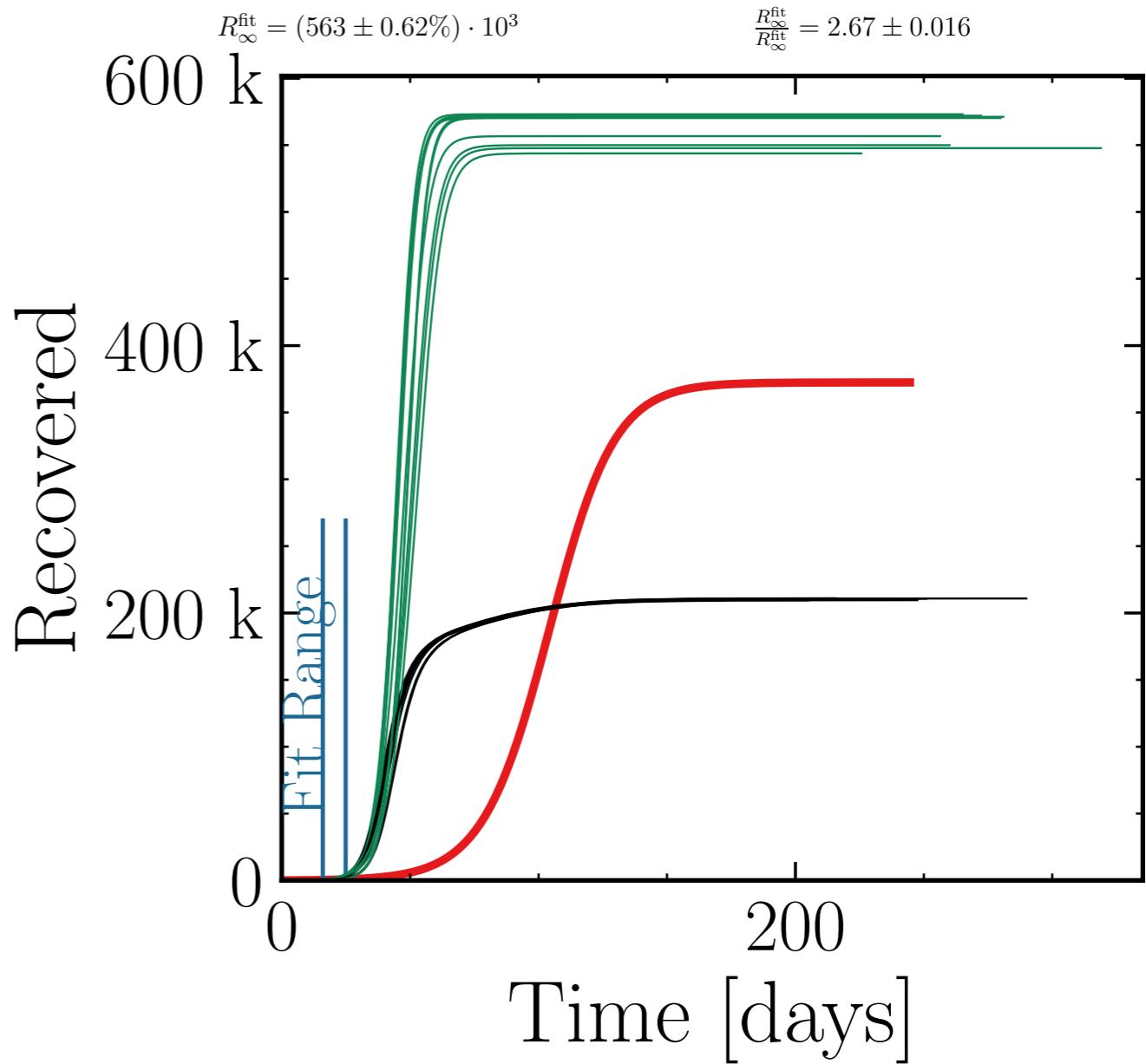
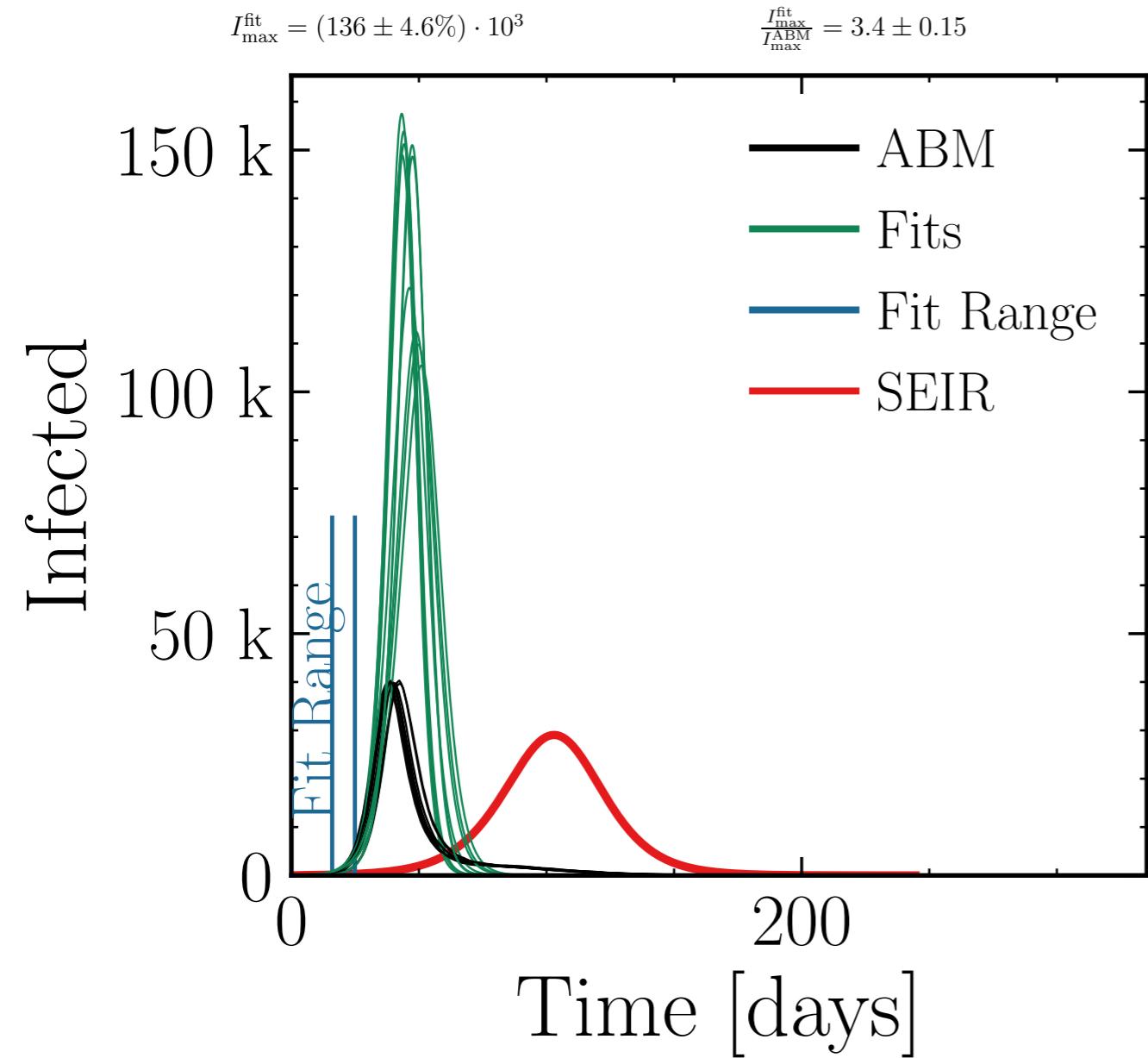
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.58 \pm 0.011$$



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



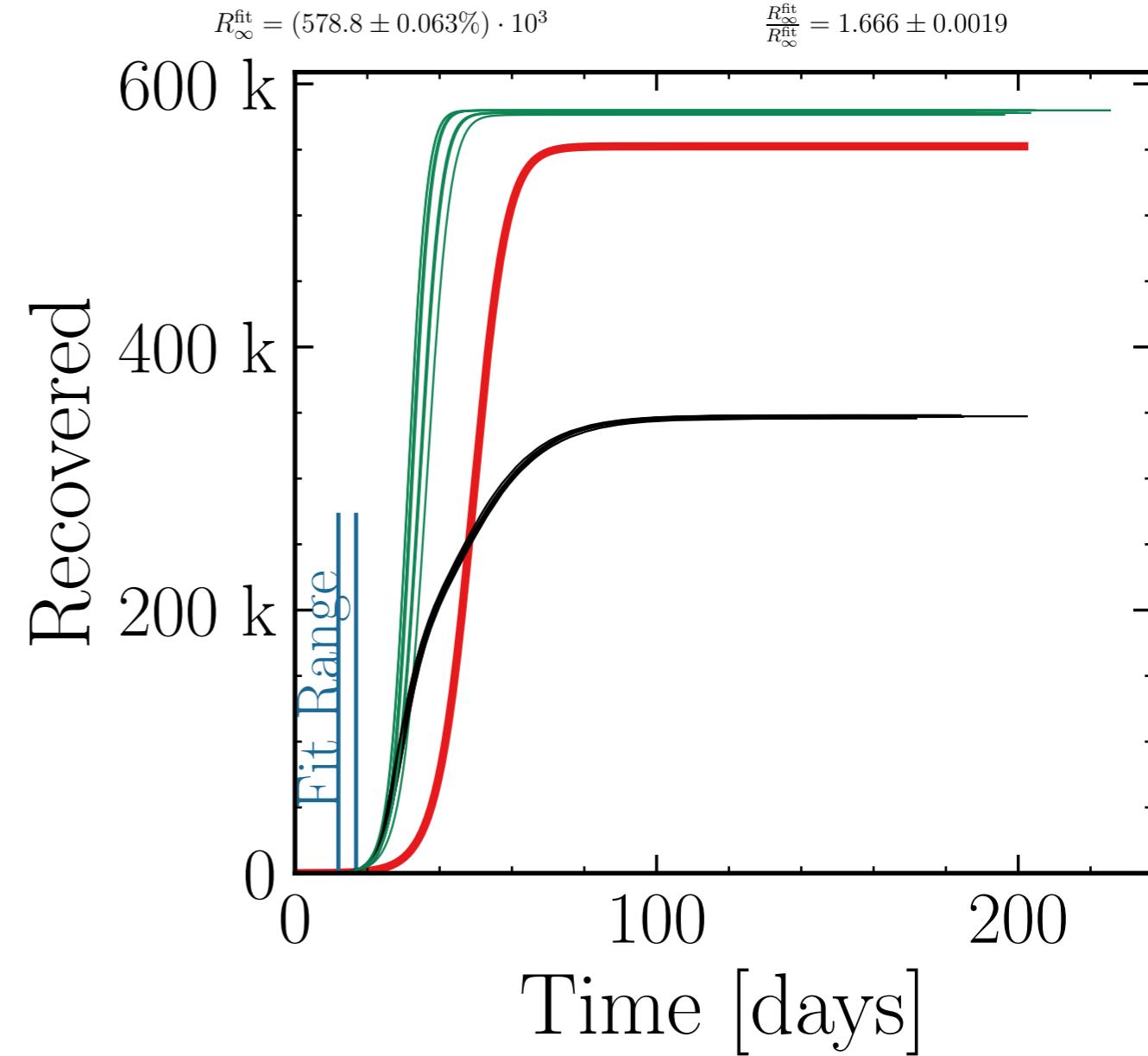
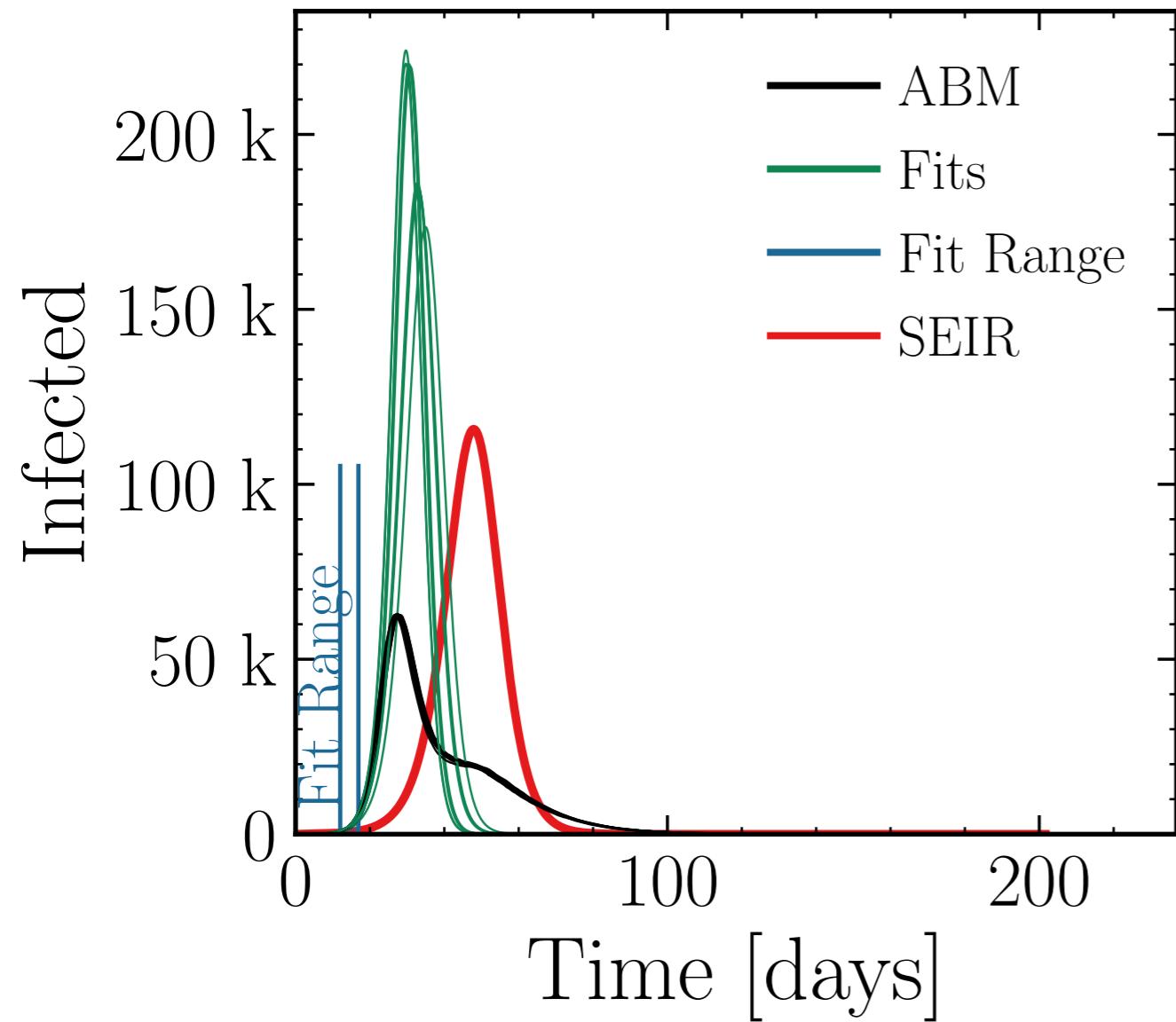
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (202 \pm 3.0\%) \cdot 10^3$$

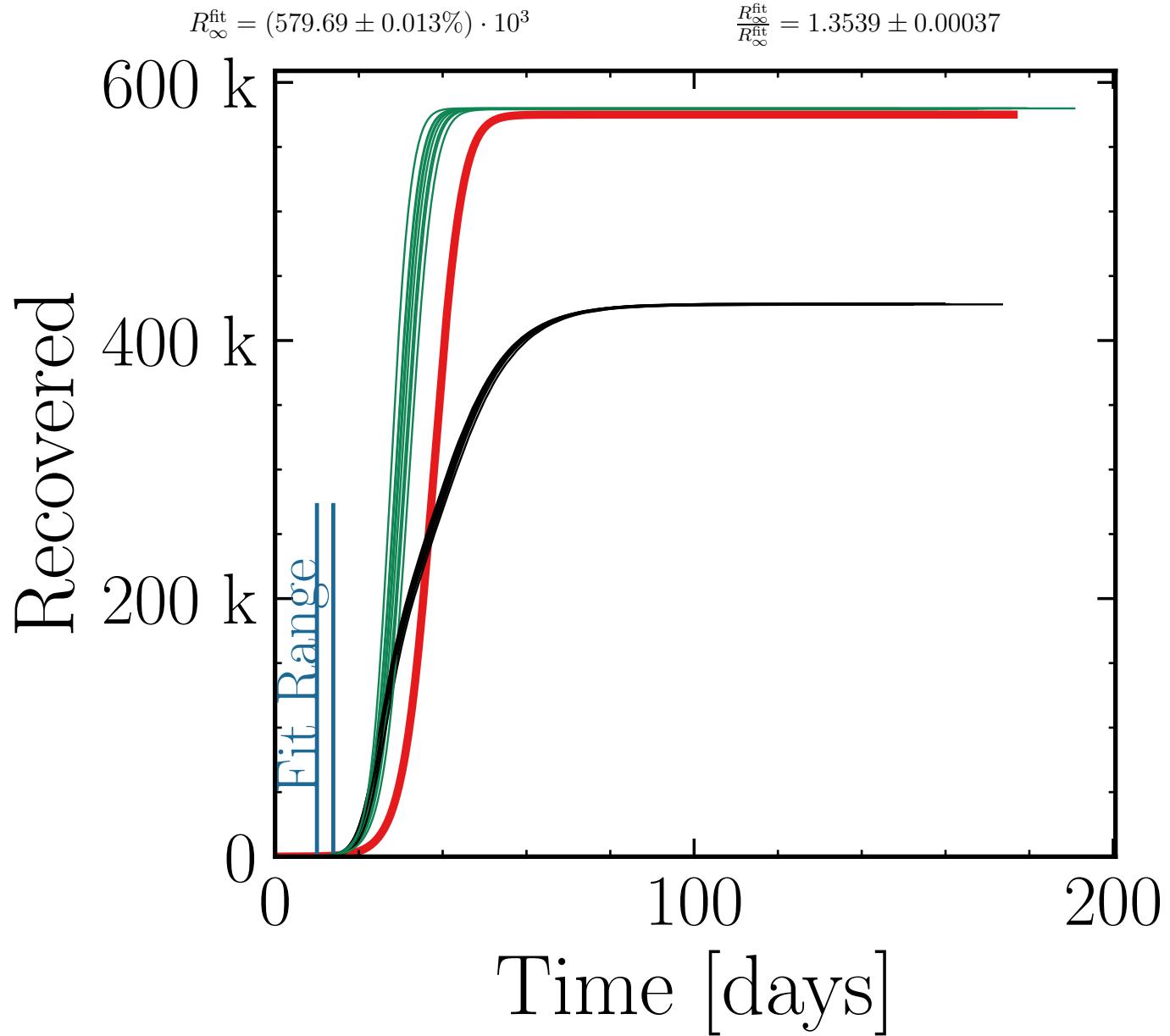
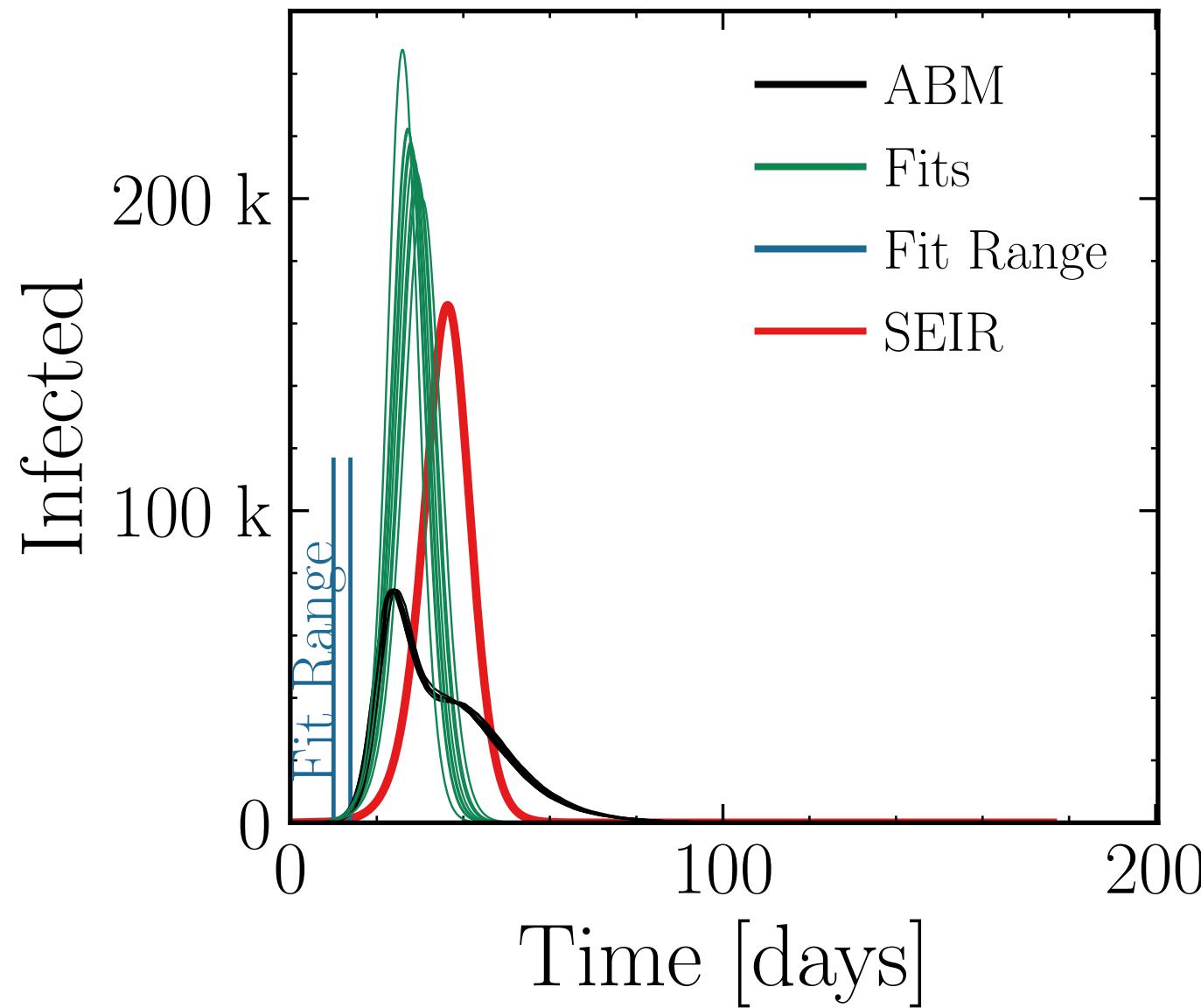
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 3.2 \pm 0.10$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.03$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (217 \pm 2.0\%) \cdot 10^3$$

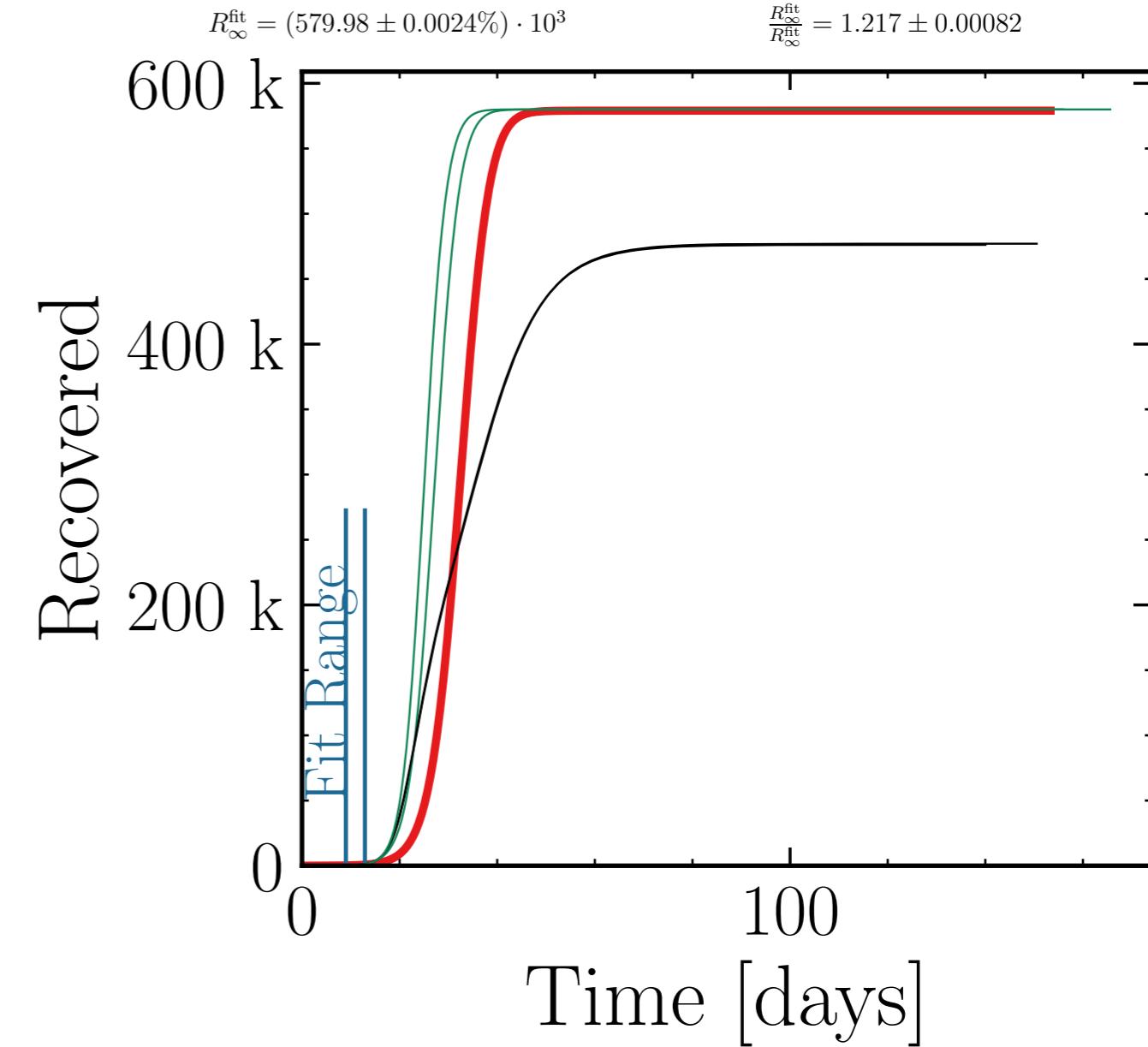
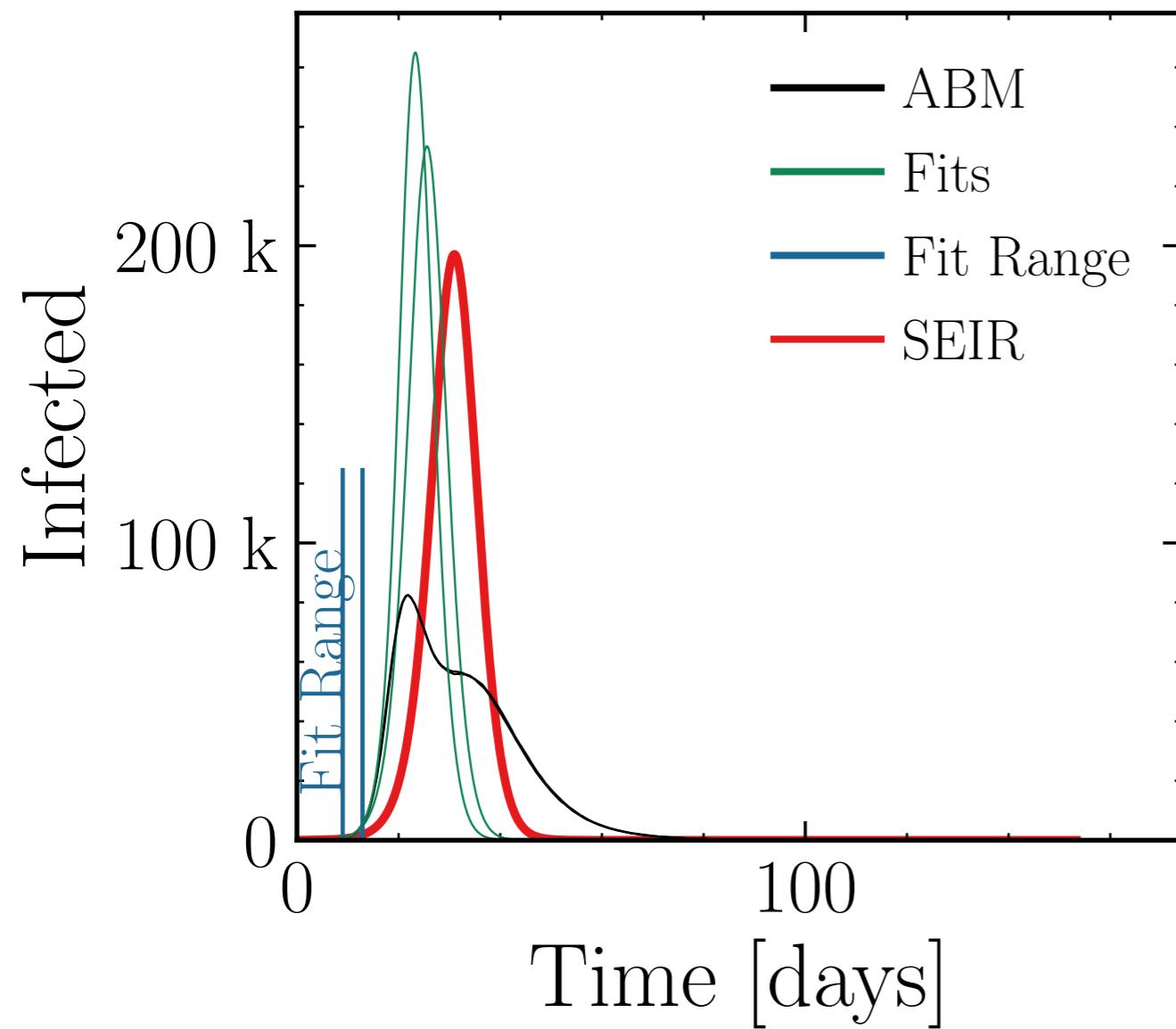
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.91 \pm 0.057$$



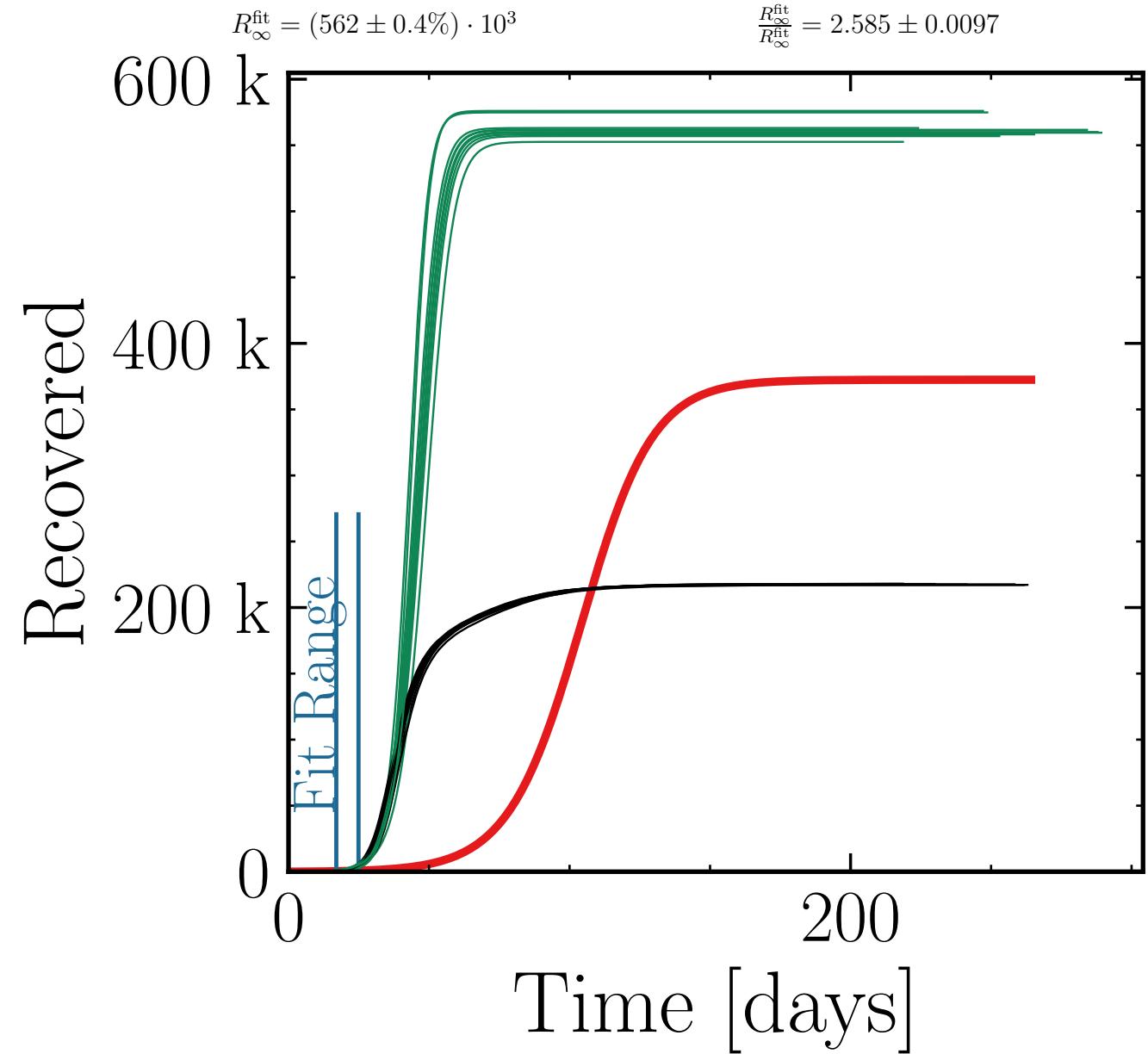
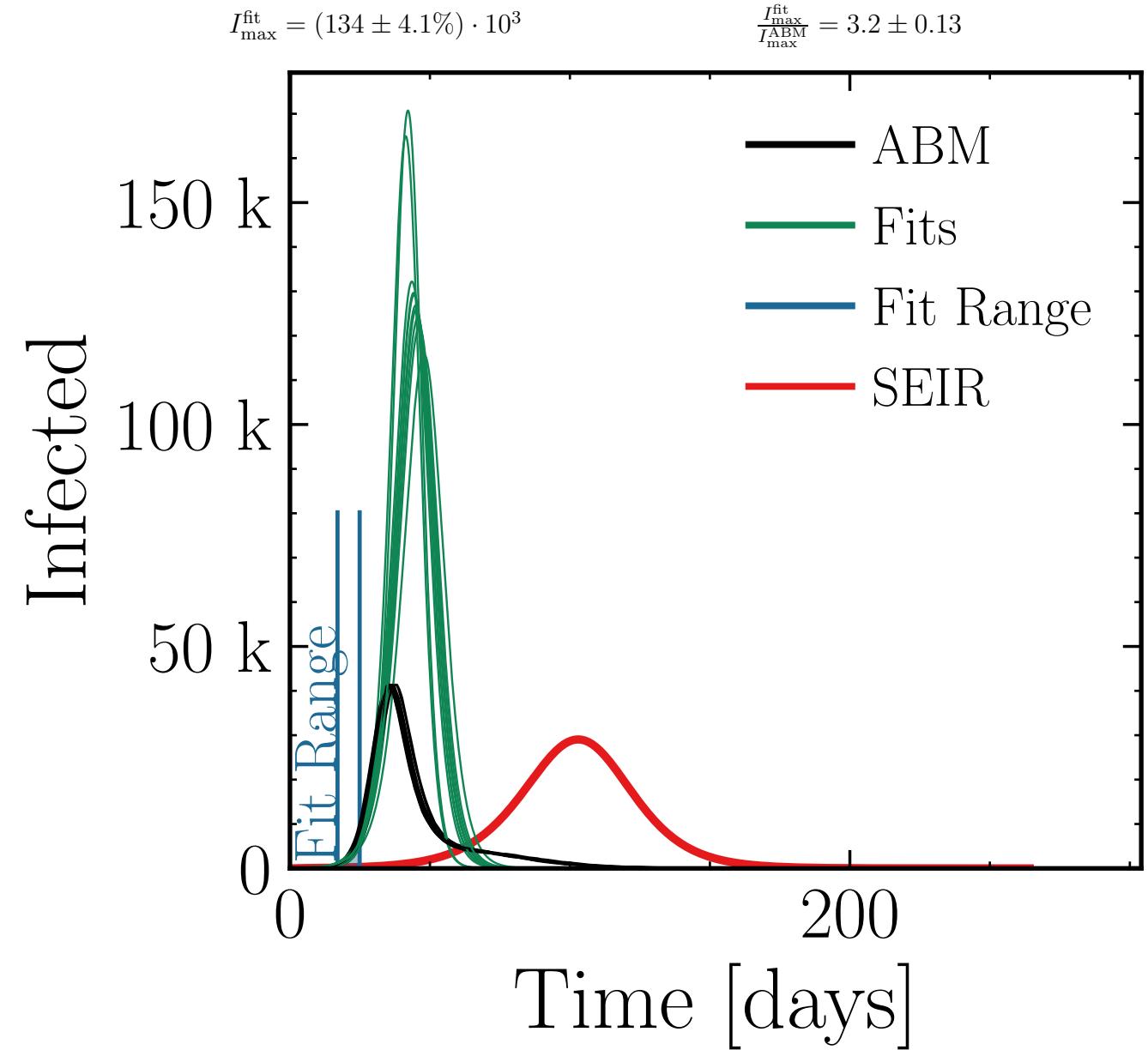
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.04$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (250 \pm 4.5\%) \cdot 10^3$$

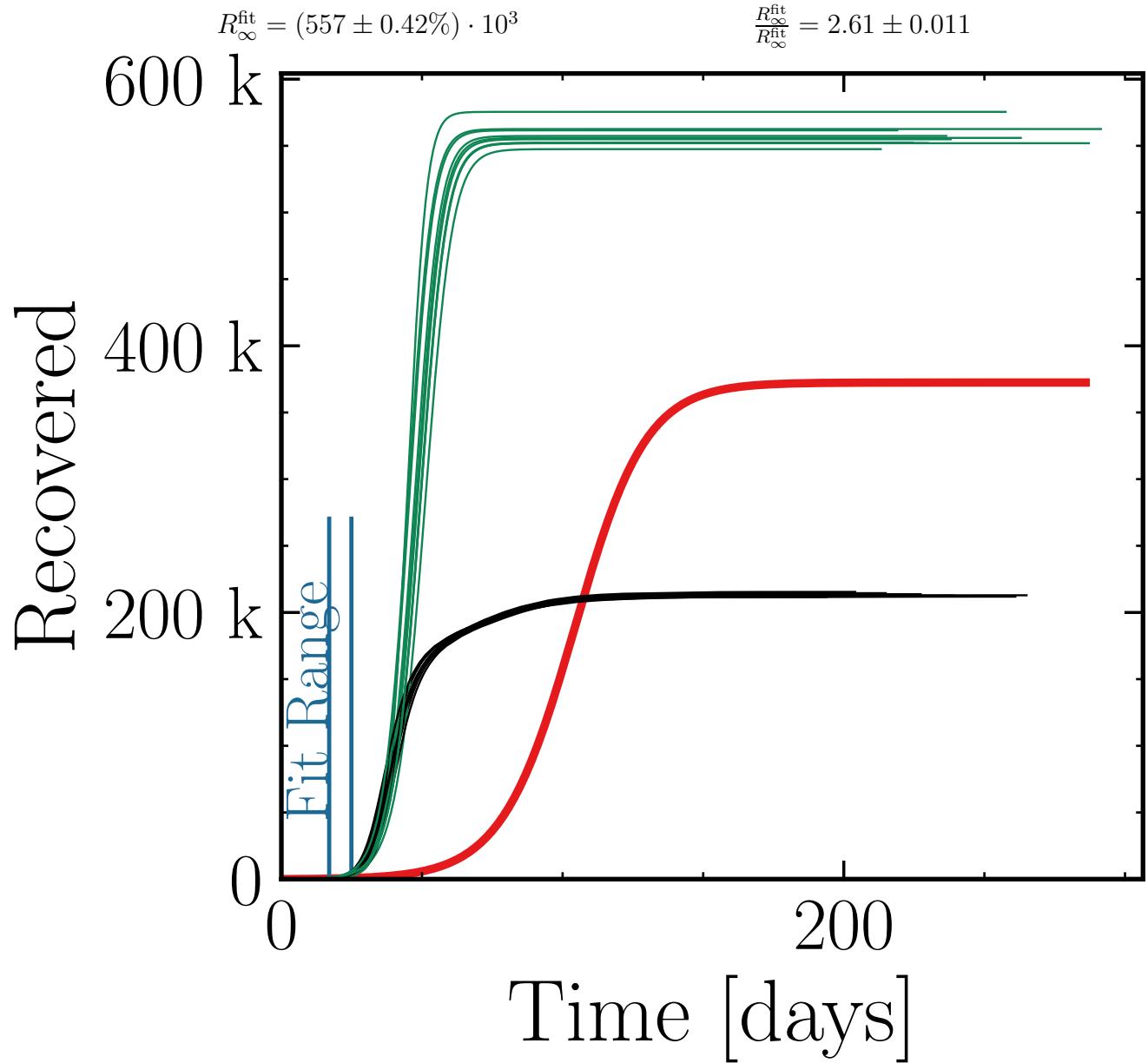
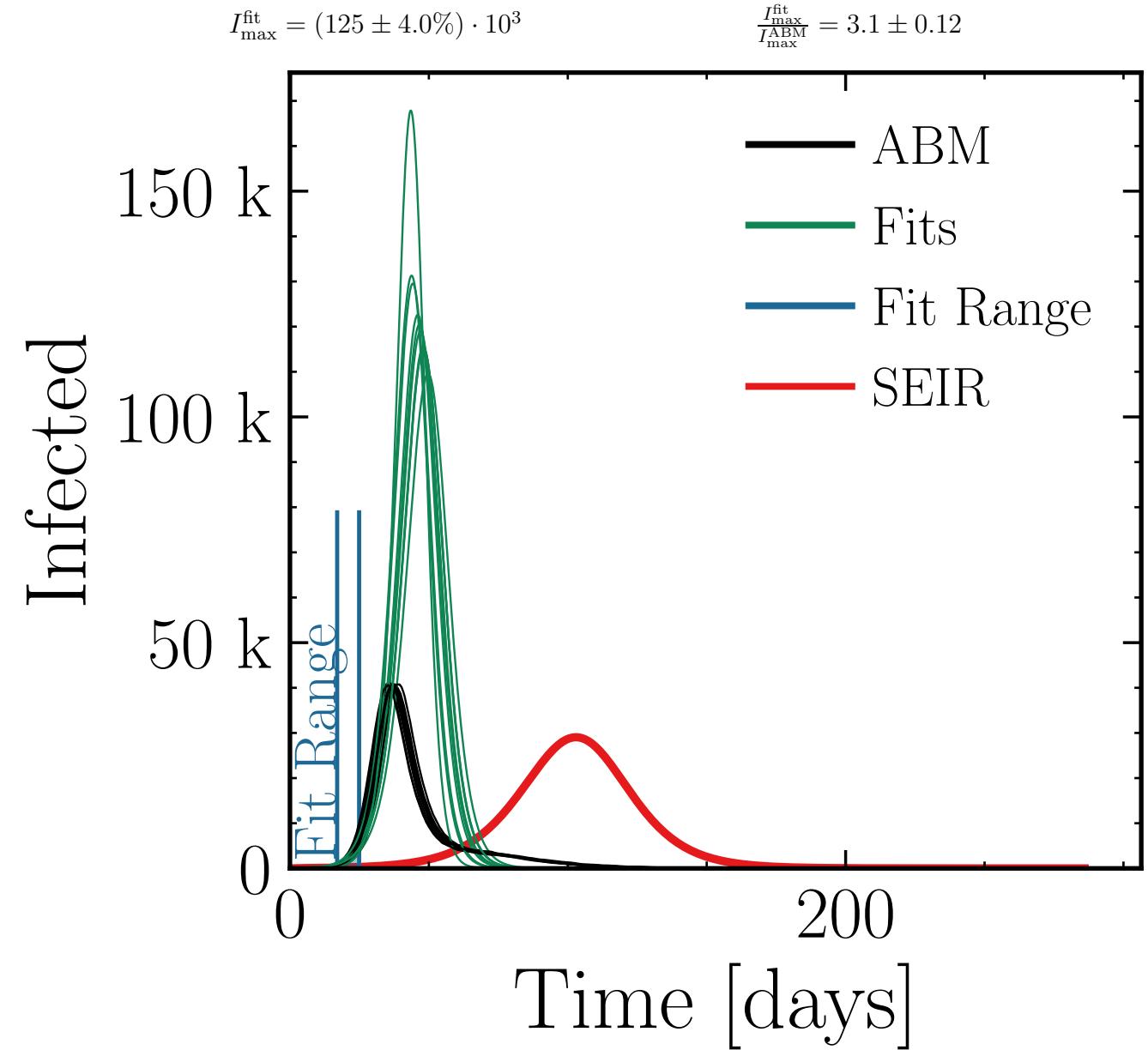
$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 3 \pm 0.13$$



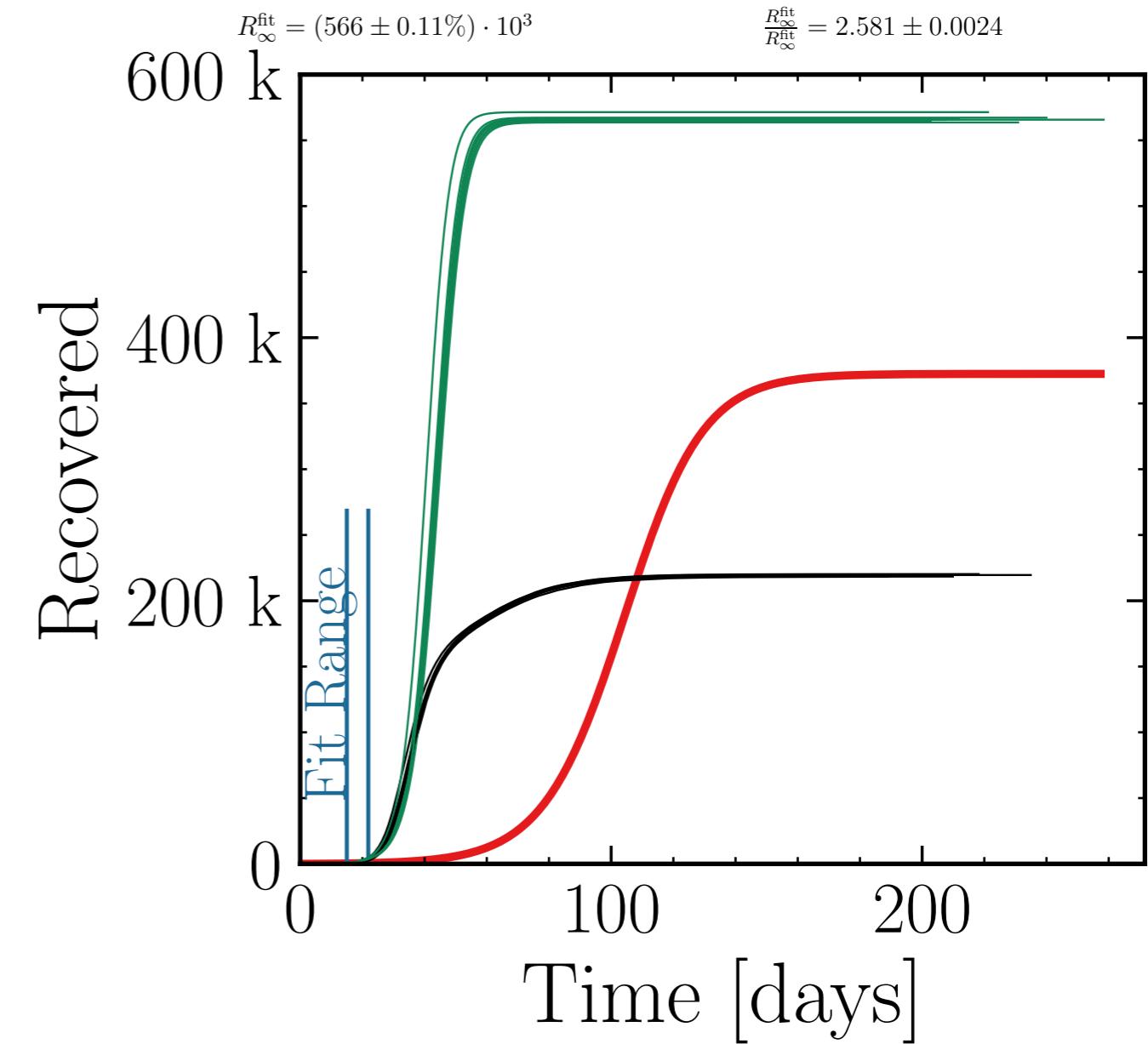
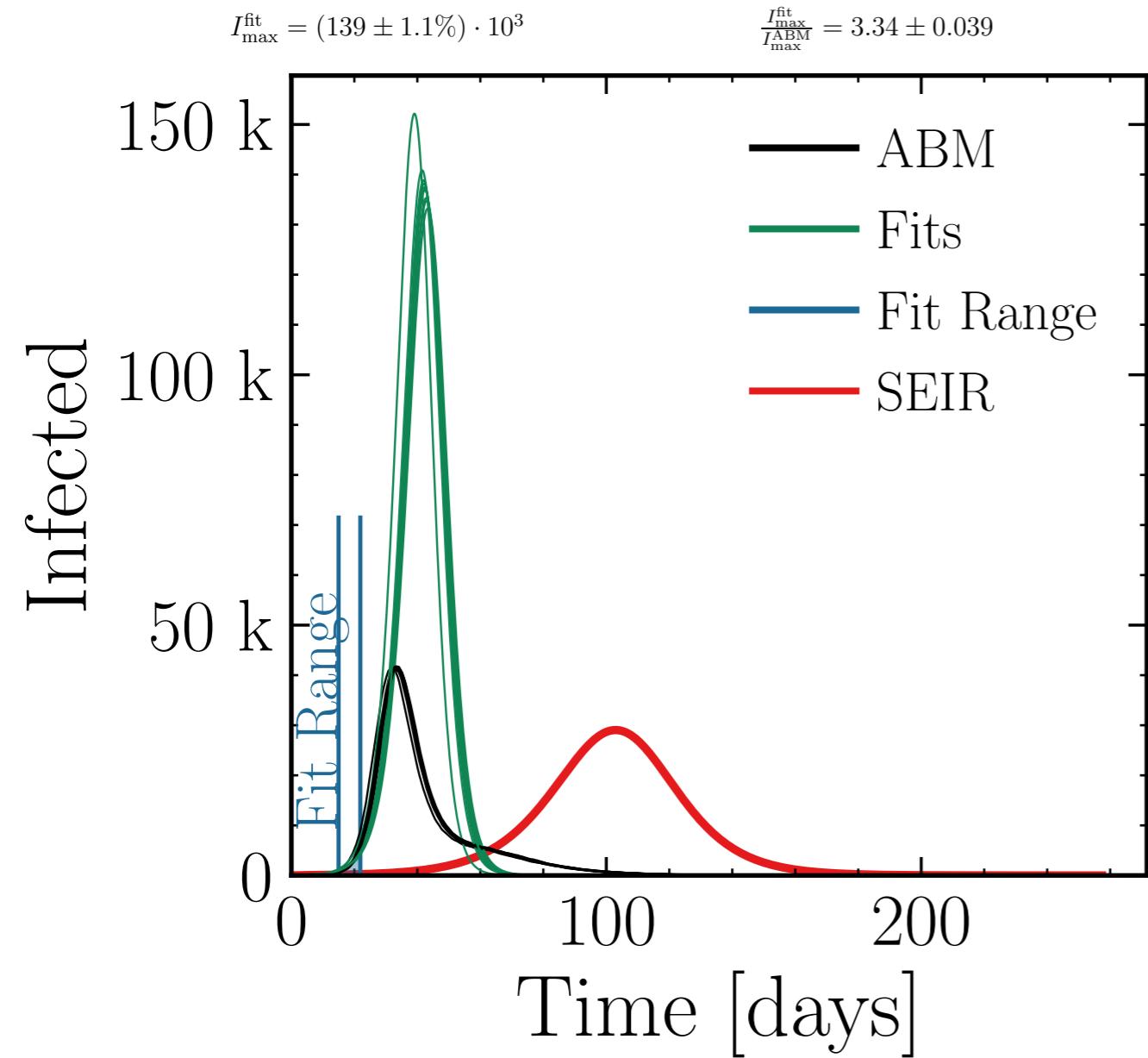
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



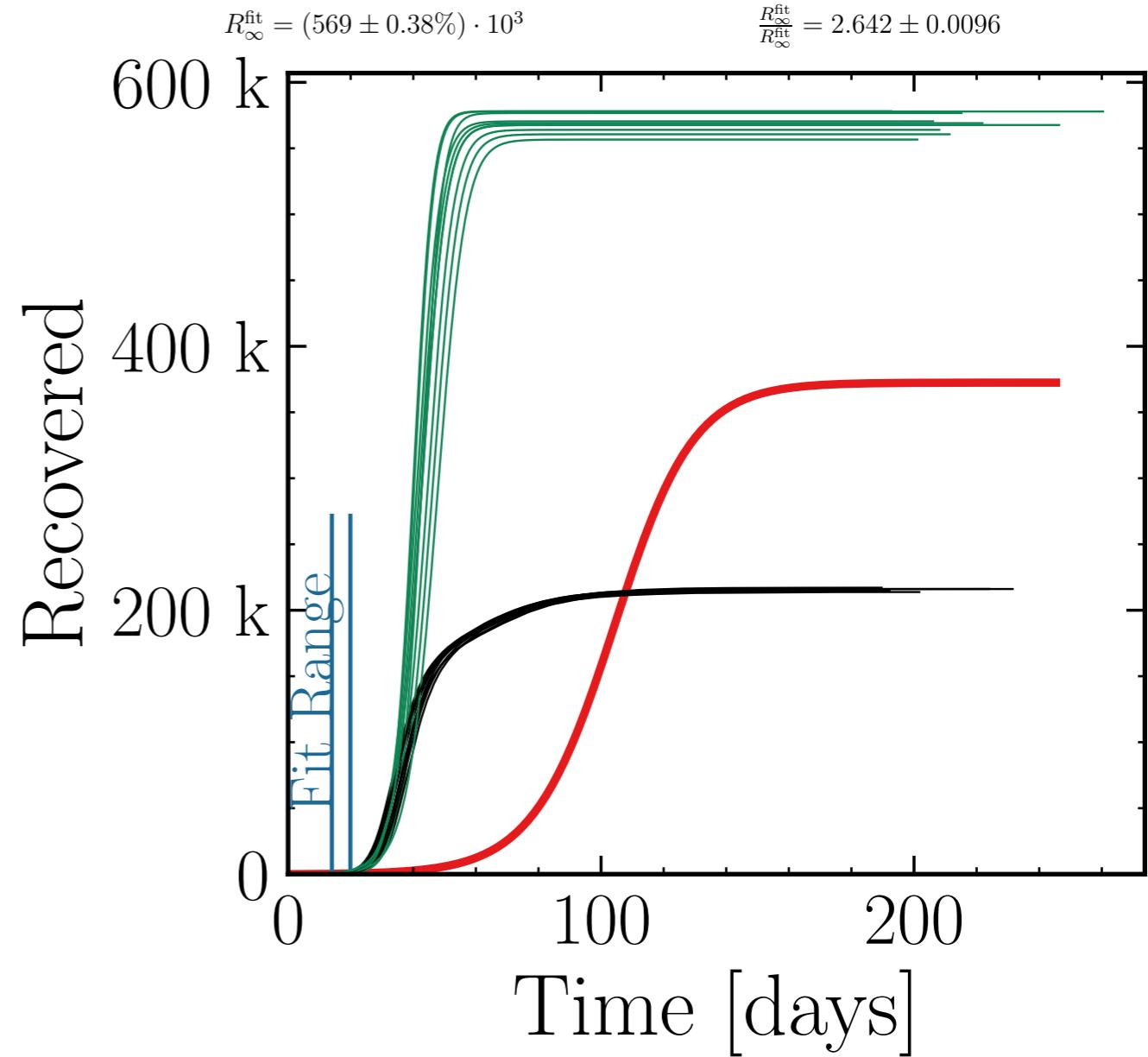
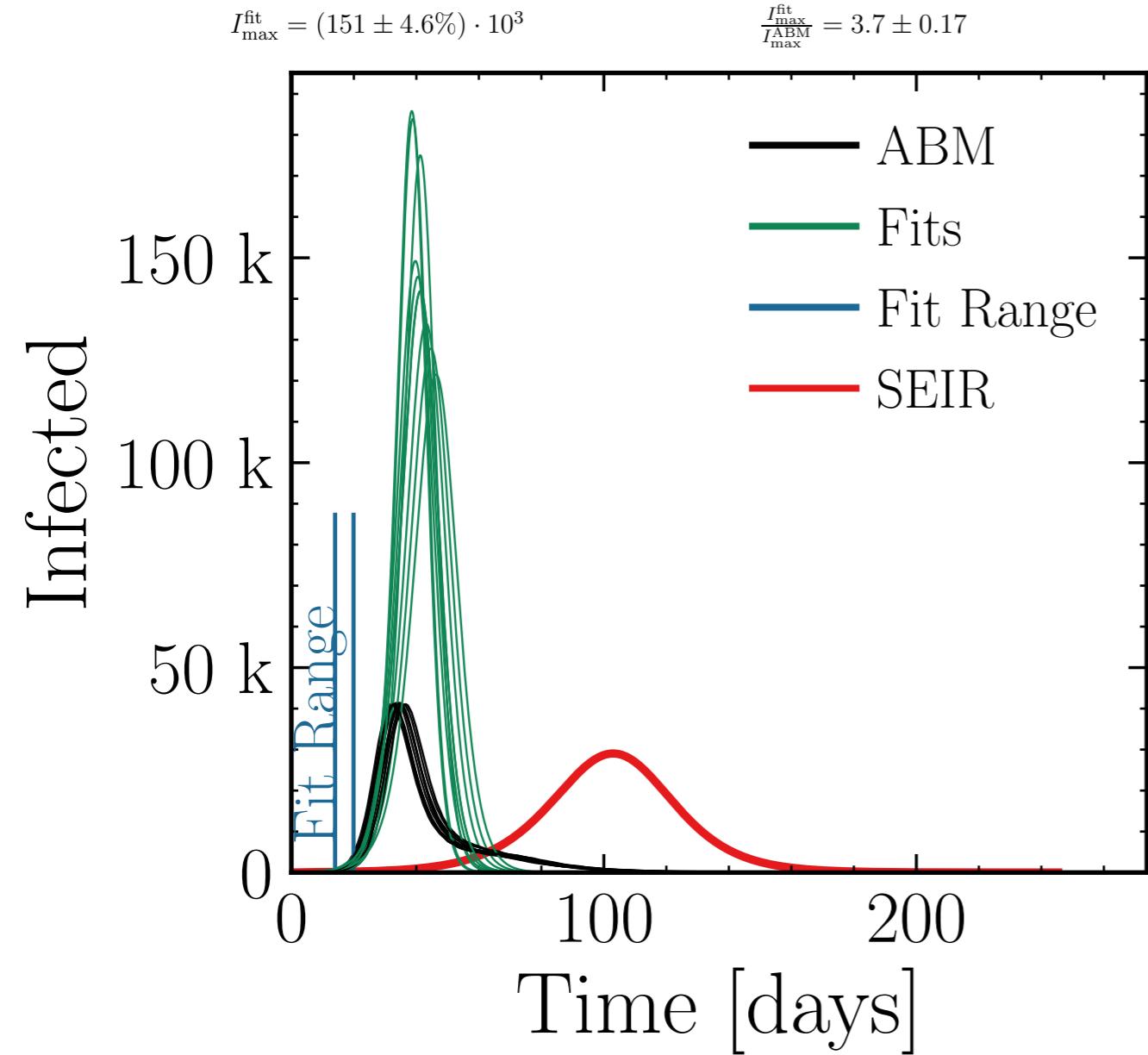
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.25$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



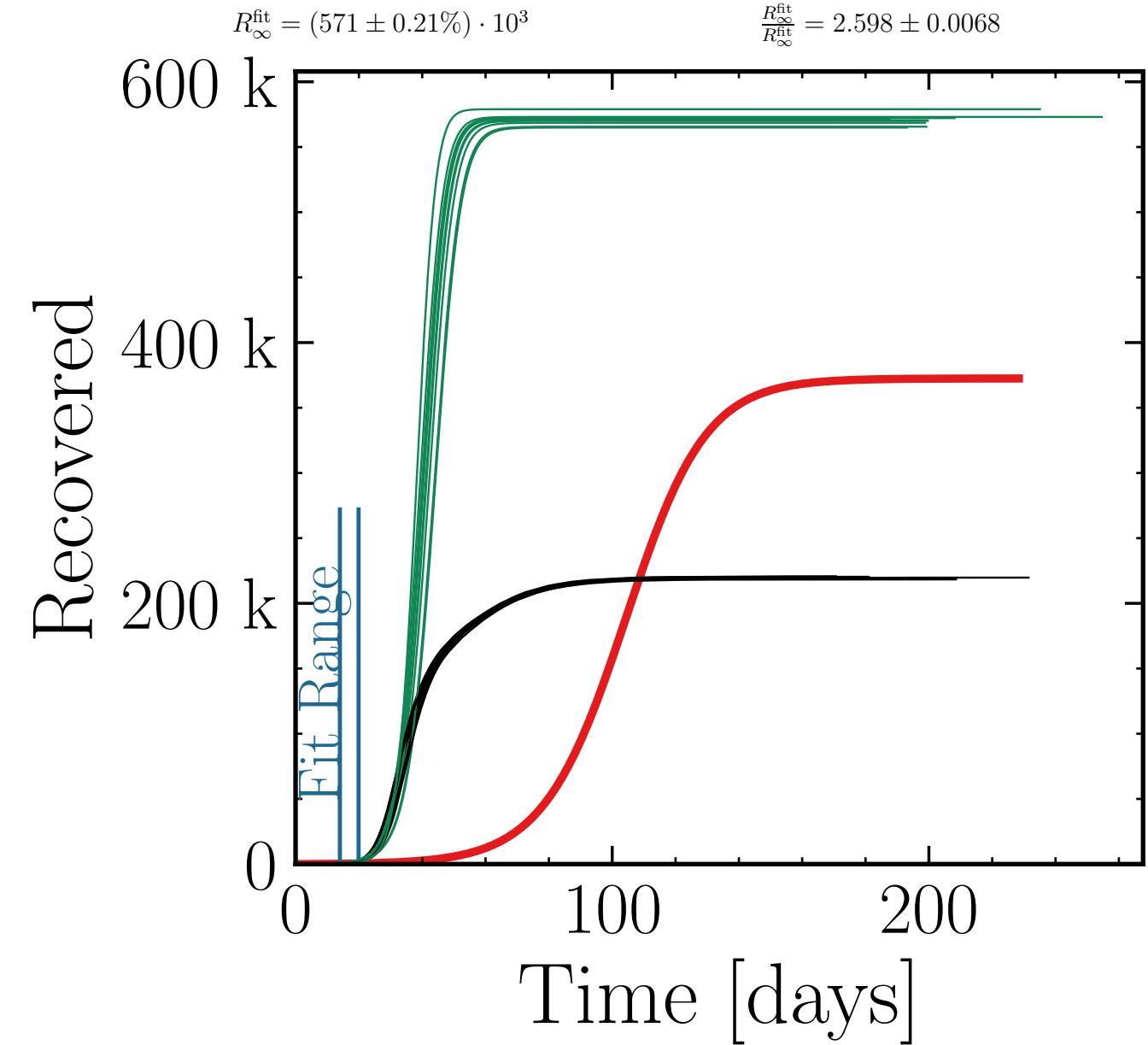
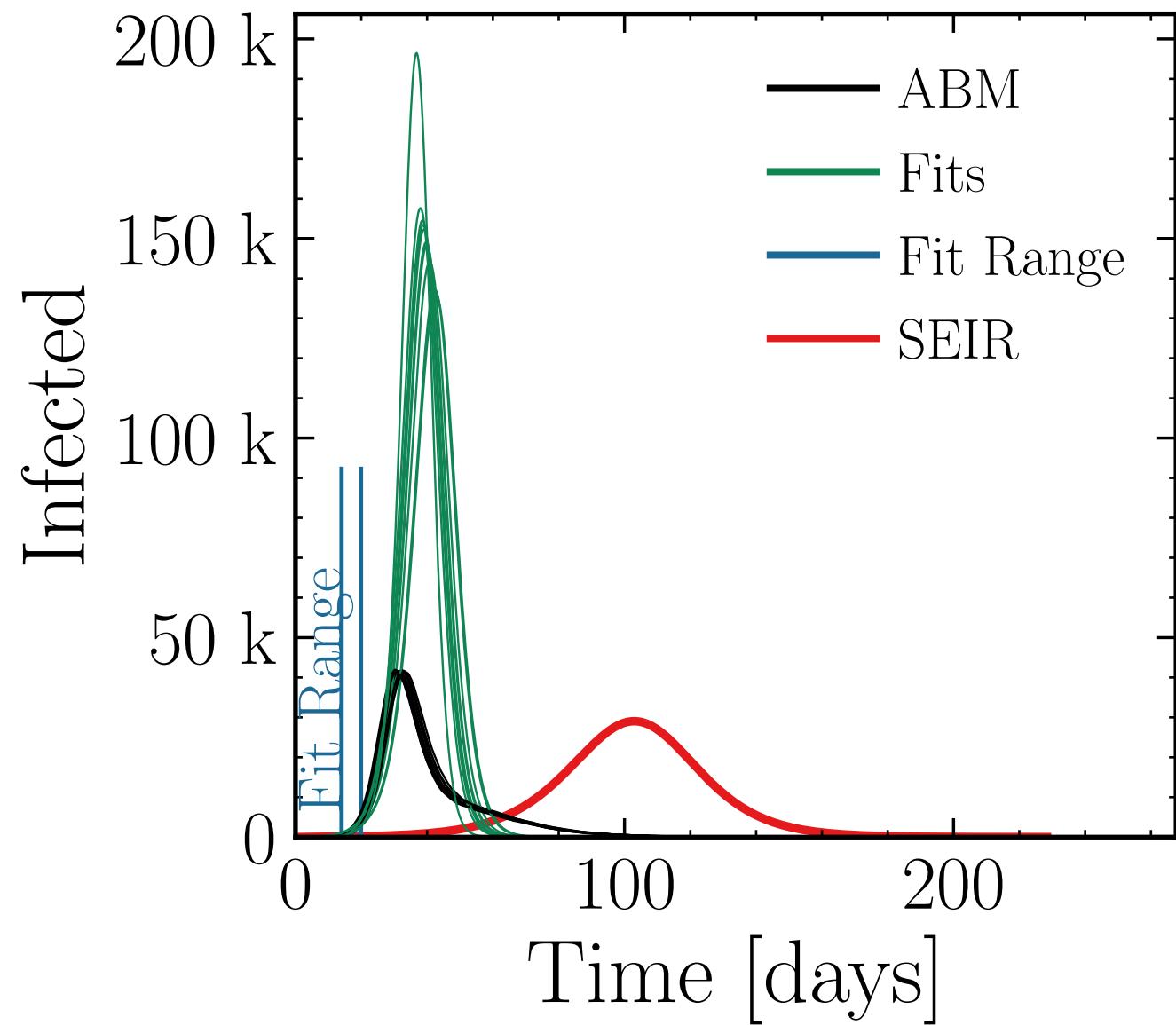
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.5$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



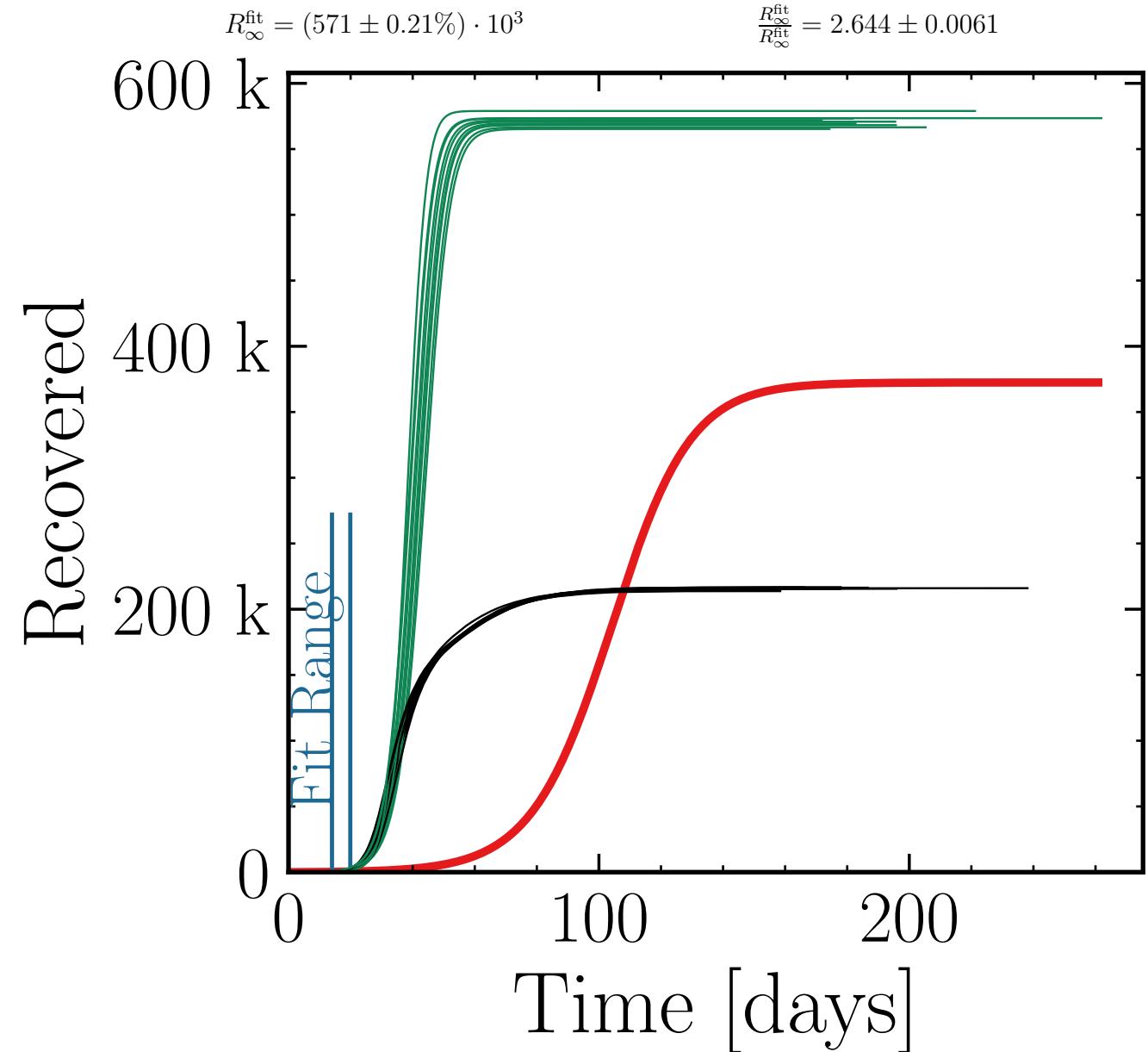
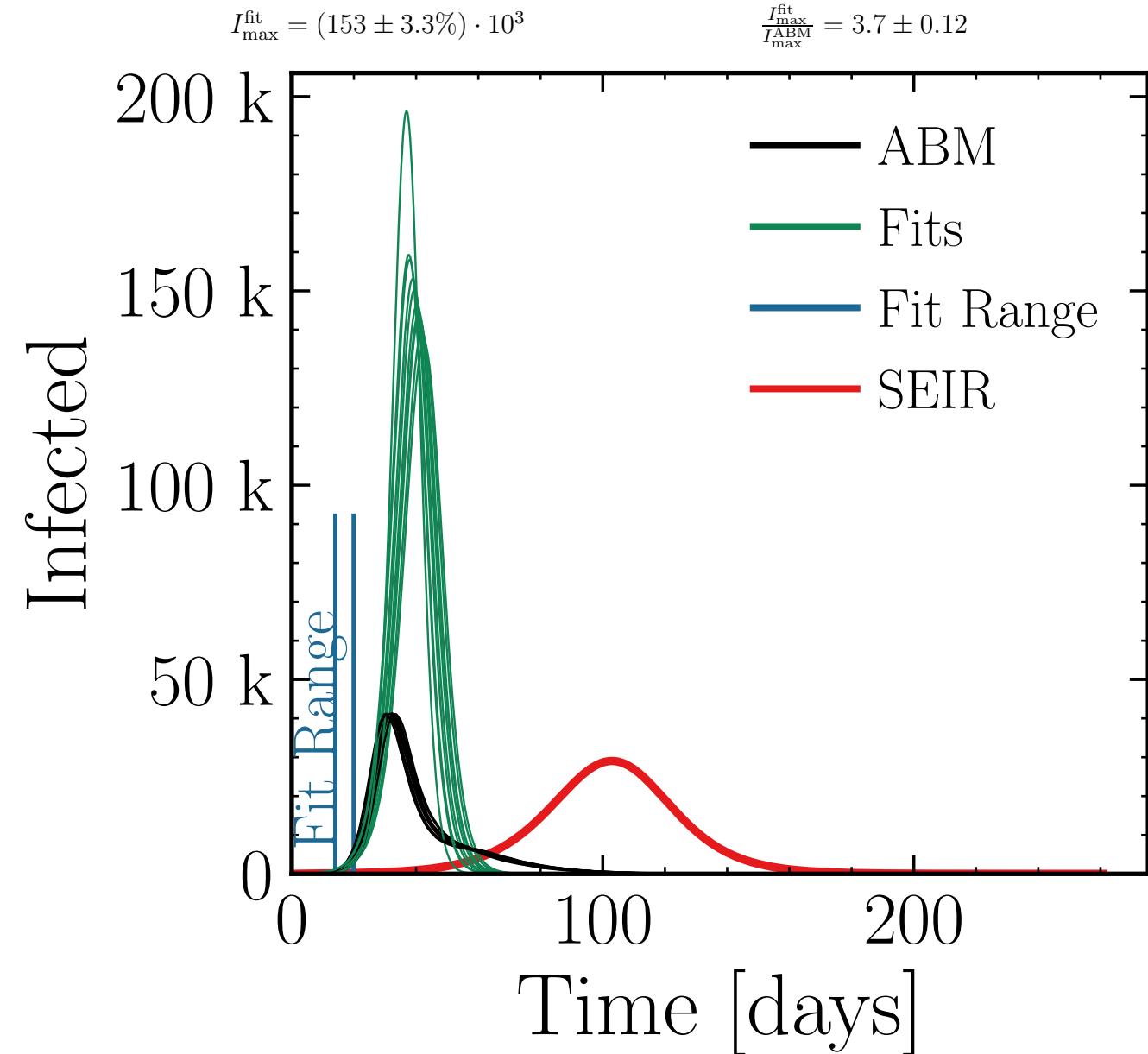
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\text{max}}^{\text{fit}} = (153 \pm 3.3\%) \cdot 10^3$$

$$\frac{I_{\text{max}}^{\text{fit}}}{I_{\text{max}}^{\text{ABM}}} = 3.7 \pm 0.12$$



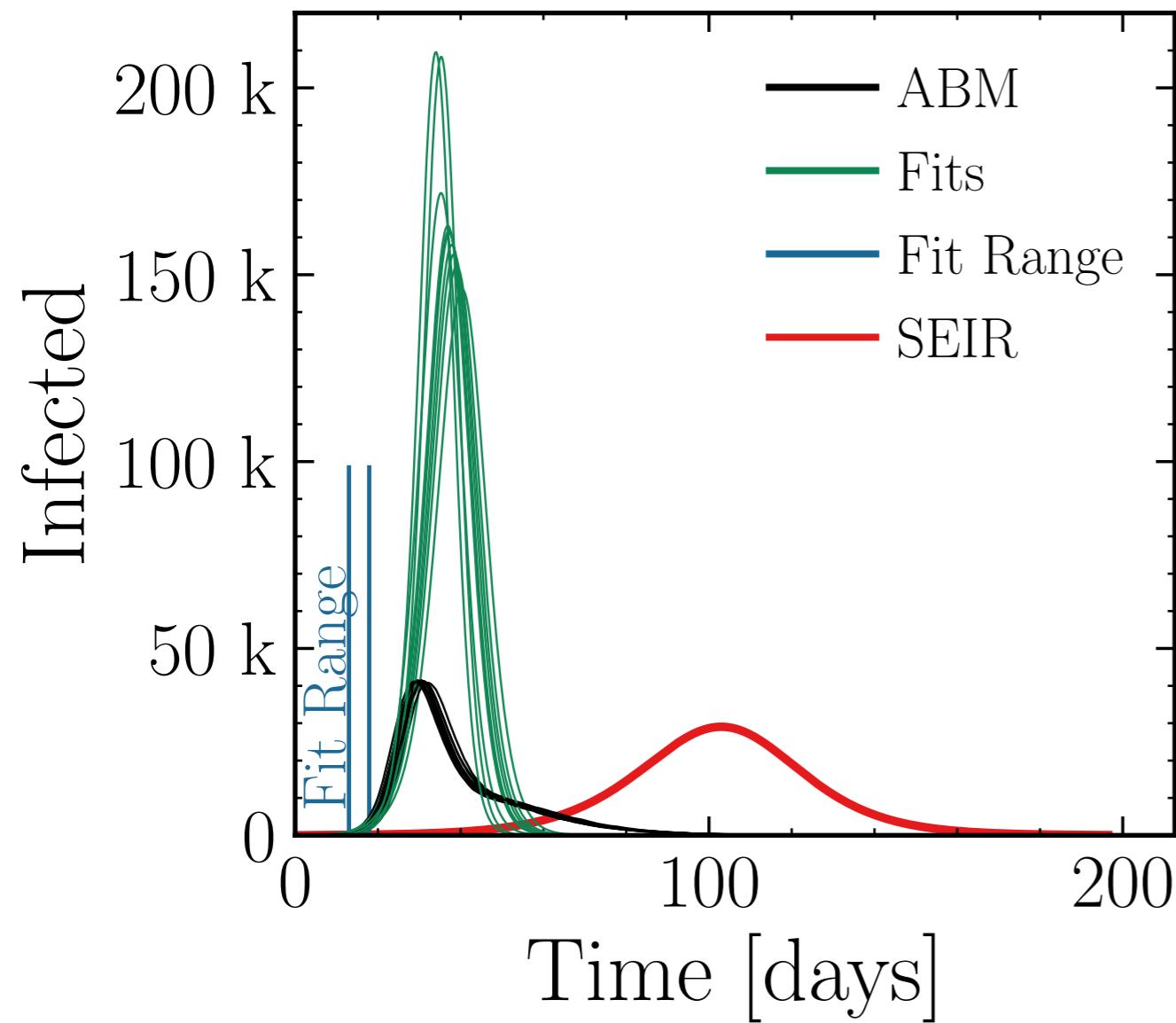
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.75$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

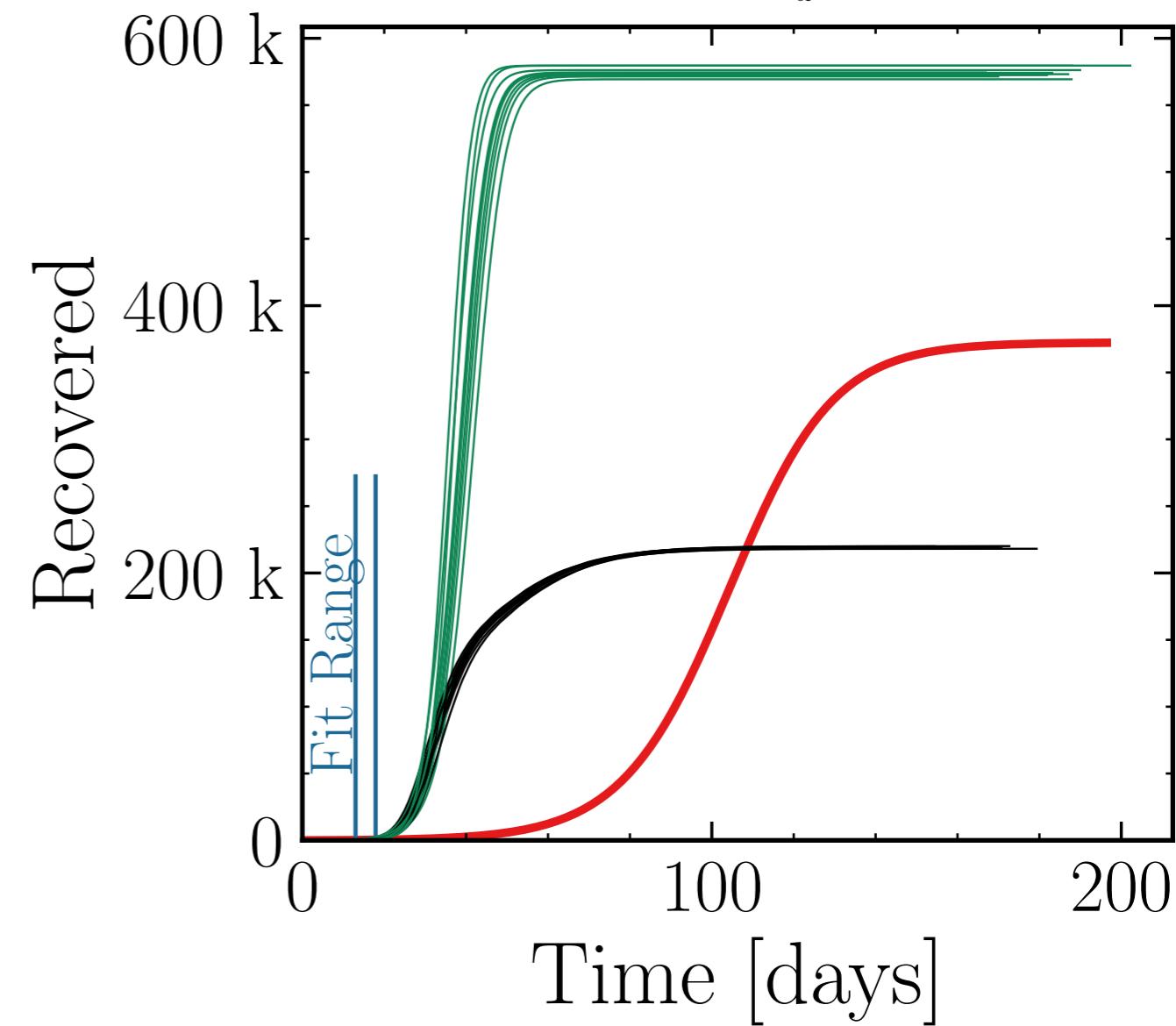
$$I_{\max}^{\text{fit}} = (169 \pm 4.0\%) \cdot 10^3$$

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

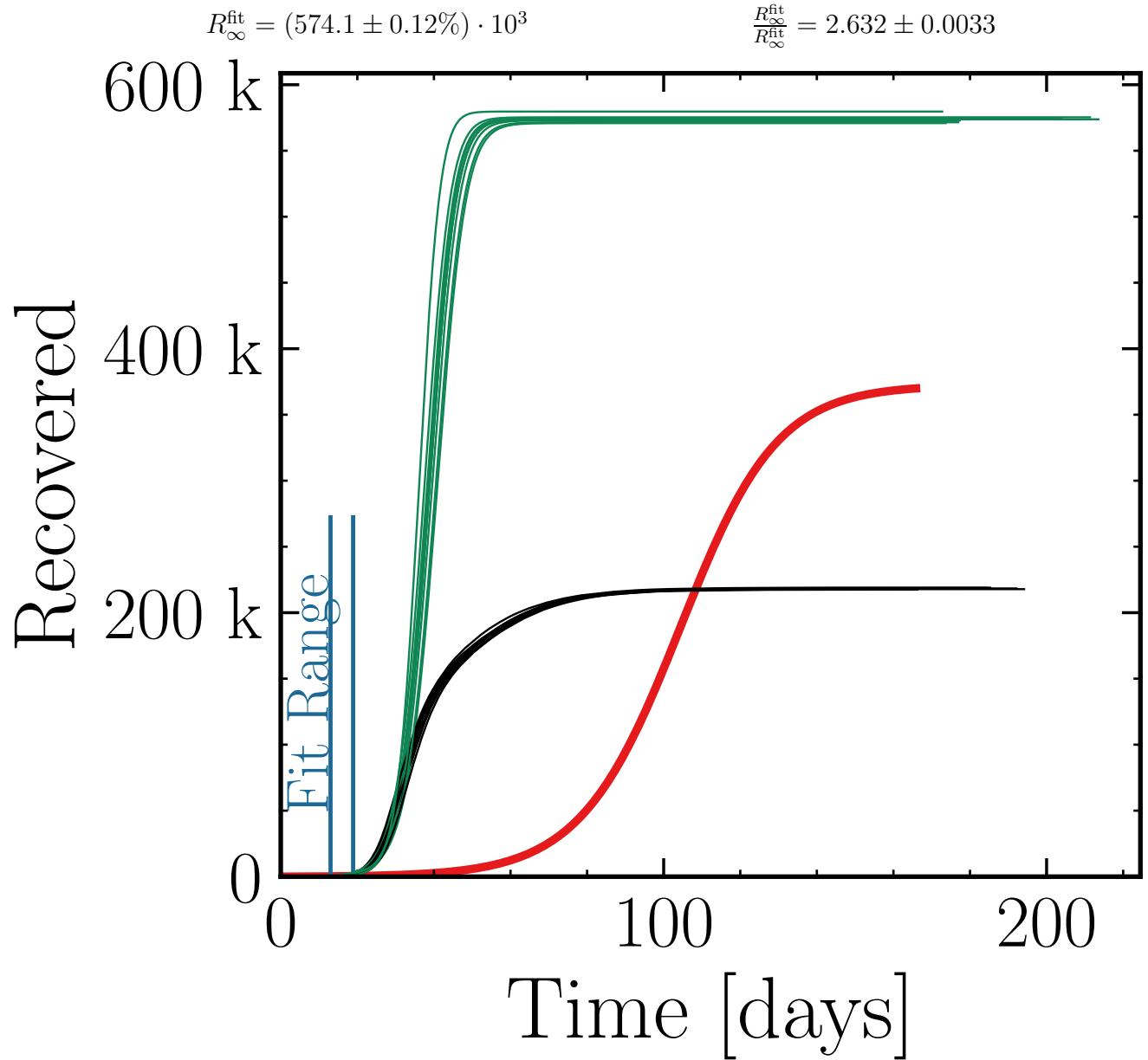
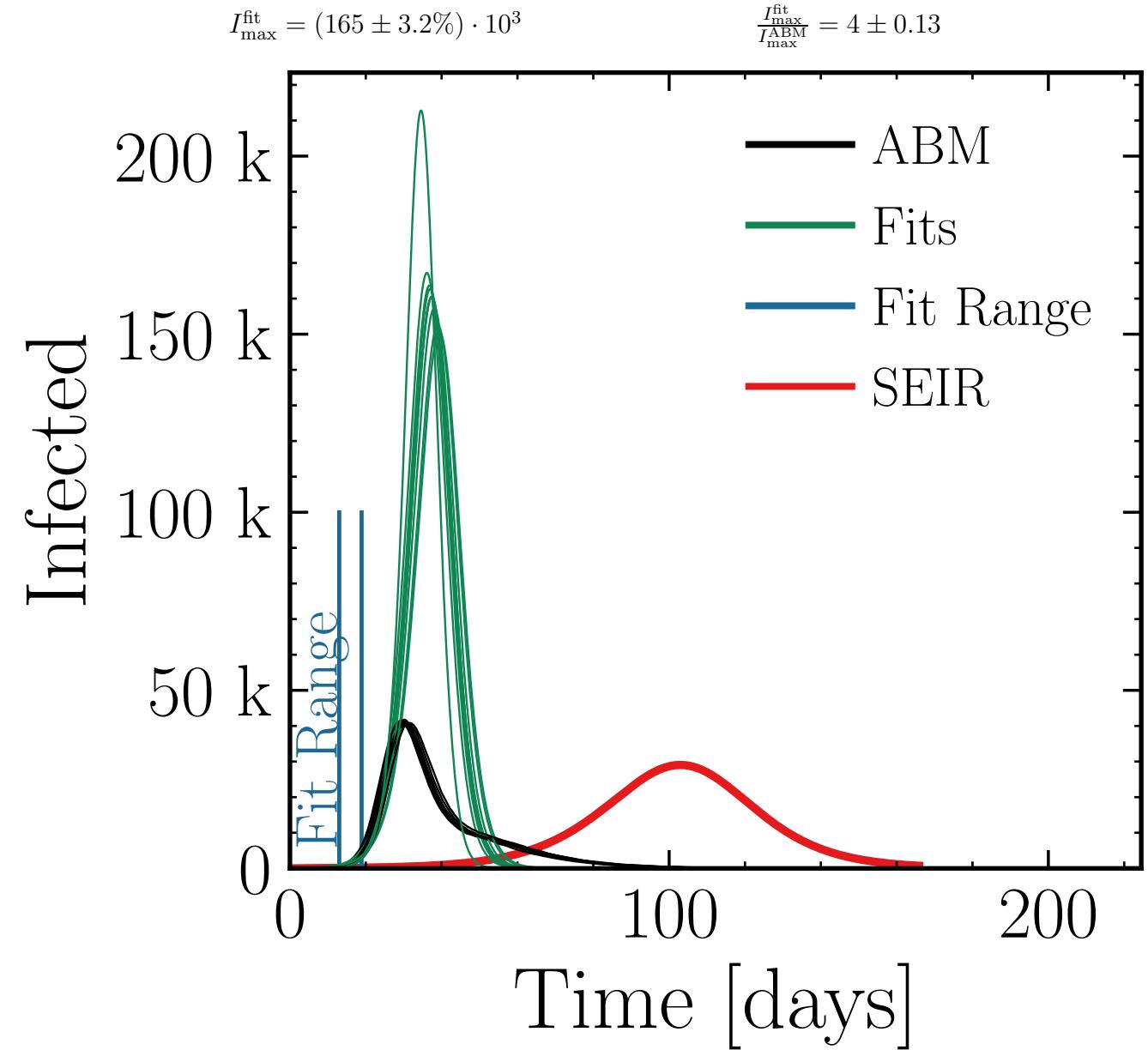


$$R_{\infty}^{\text{fit}} = (574.4 \pm 0.17\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{true}}} = 2.619 \pm 0.0054$$



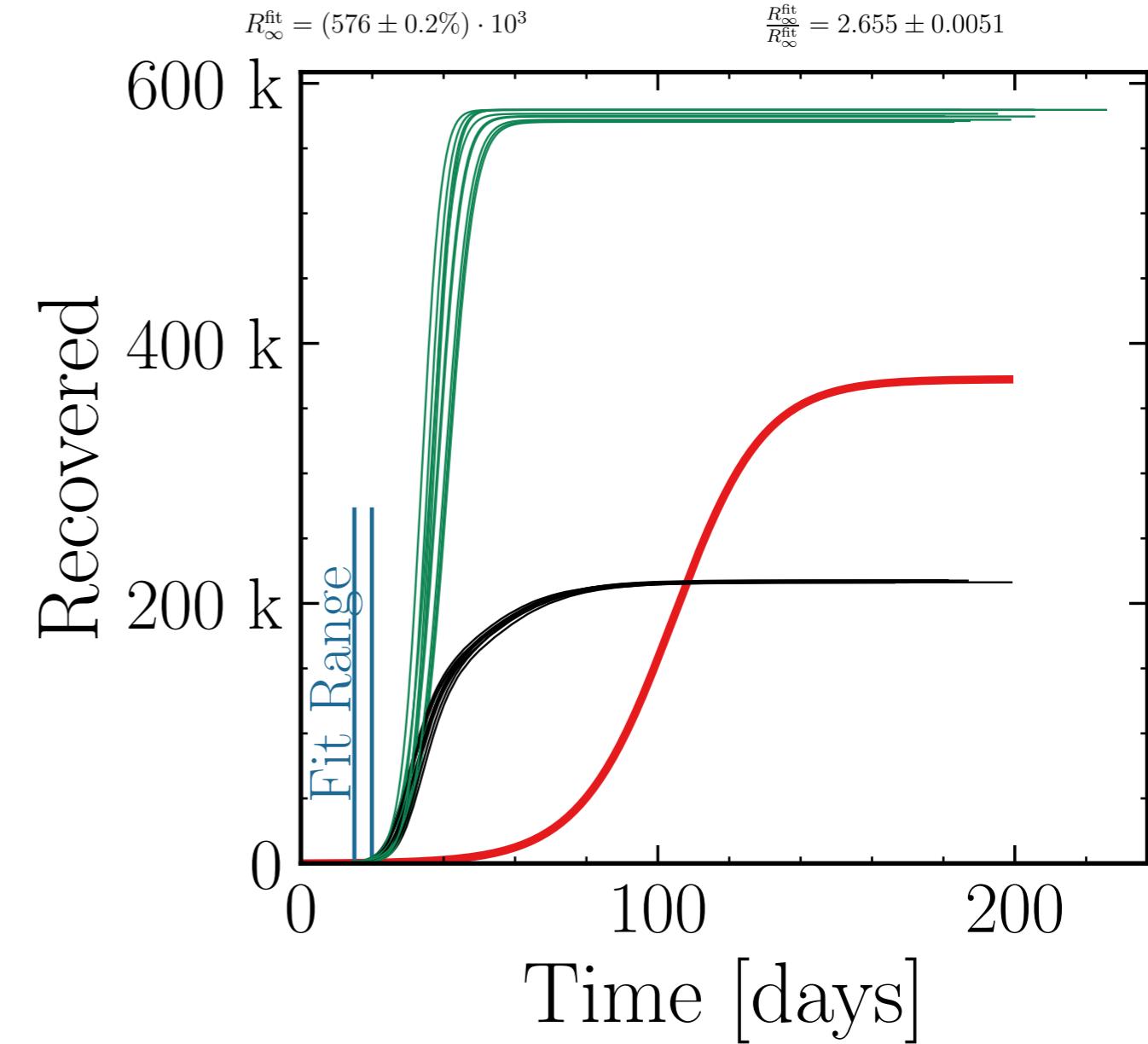
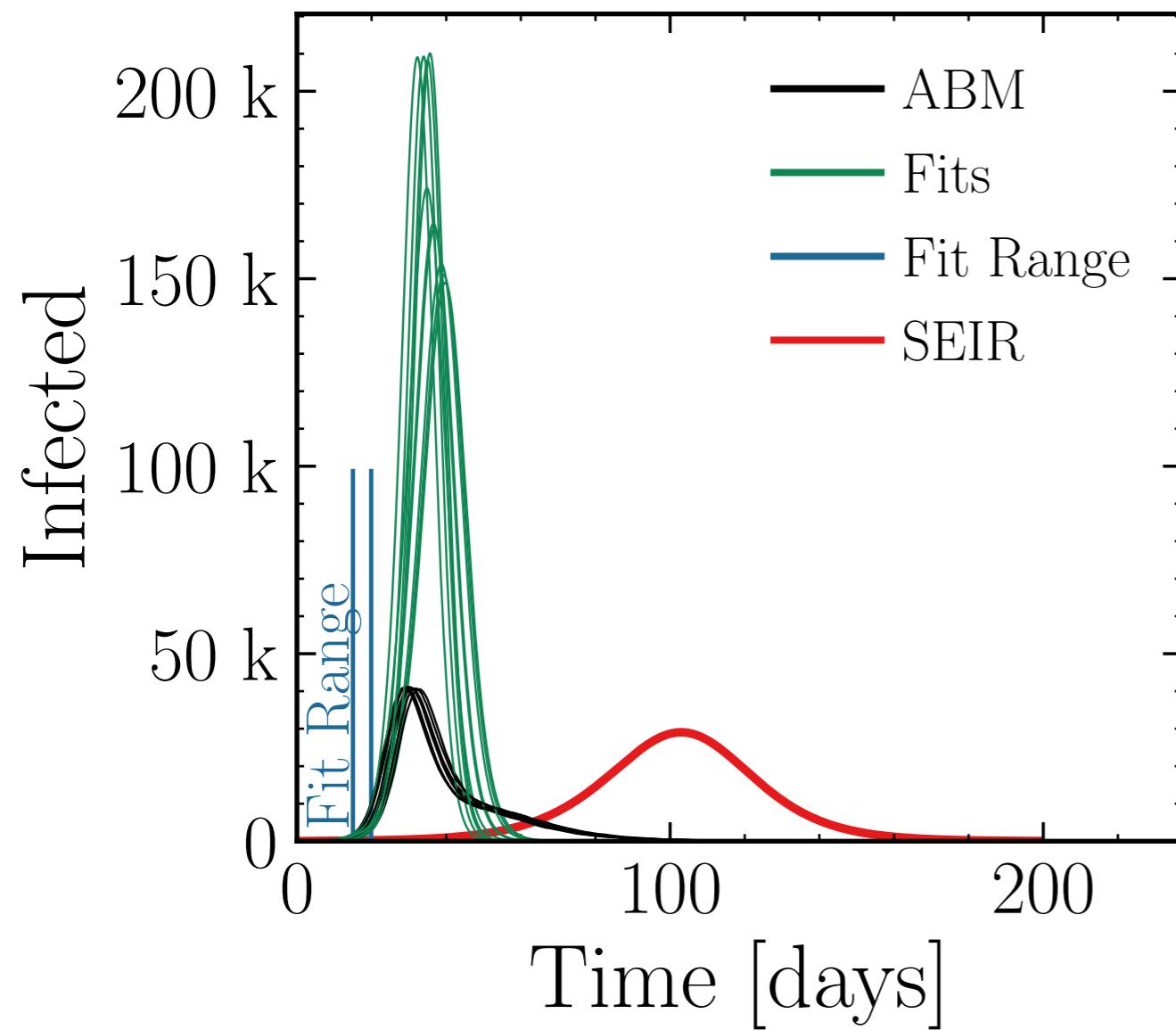
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.25$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



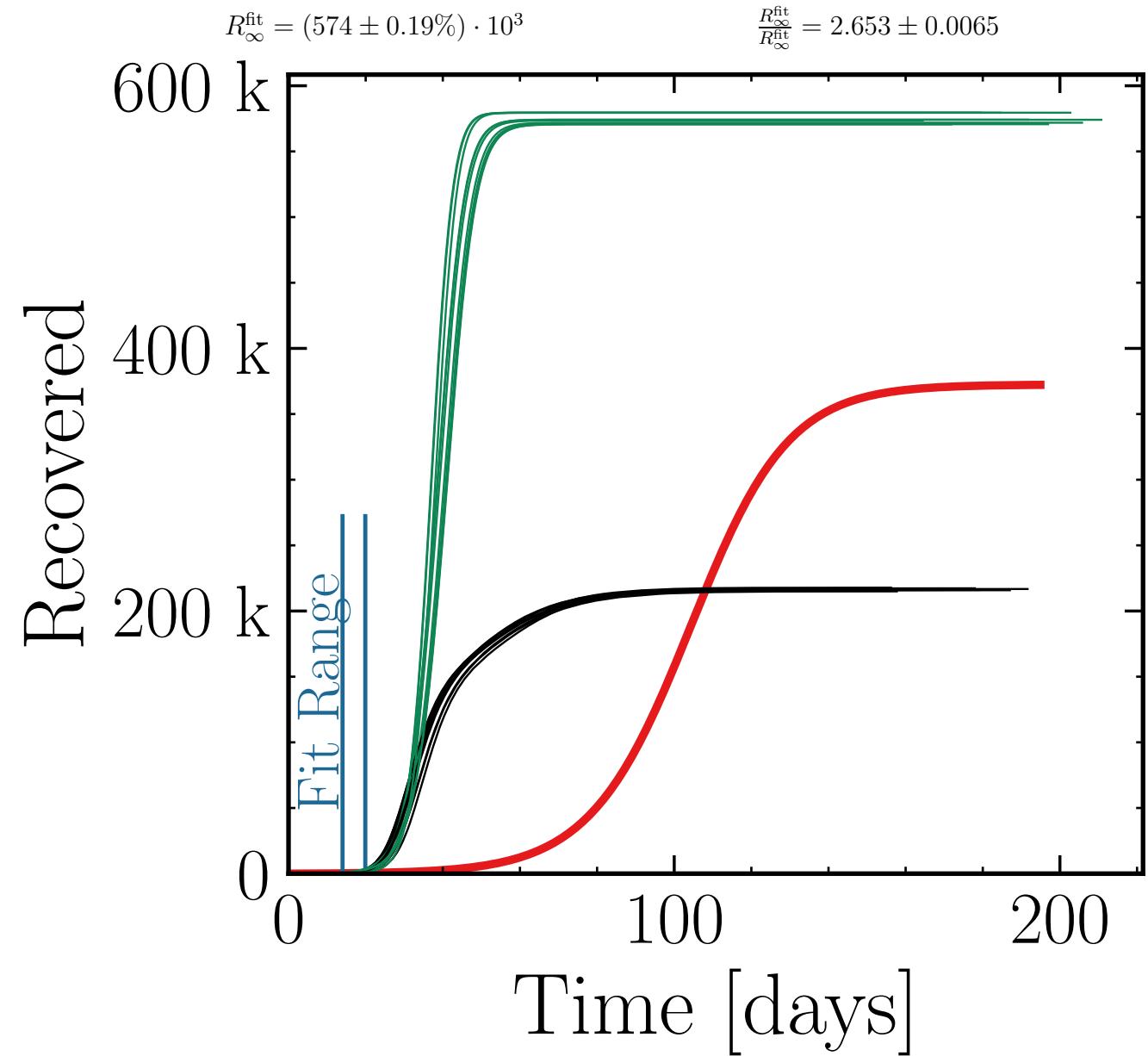
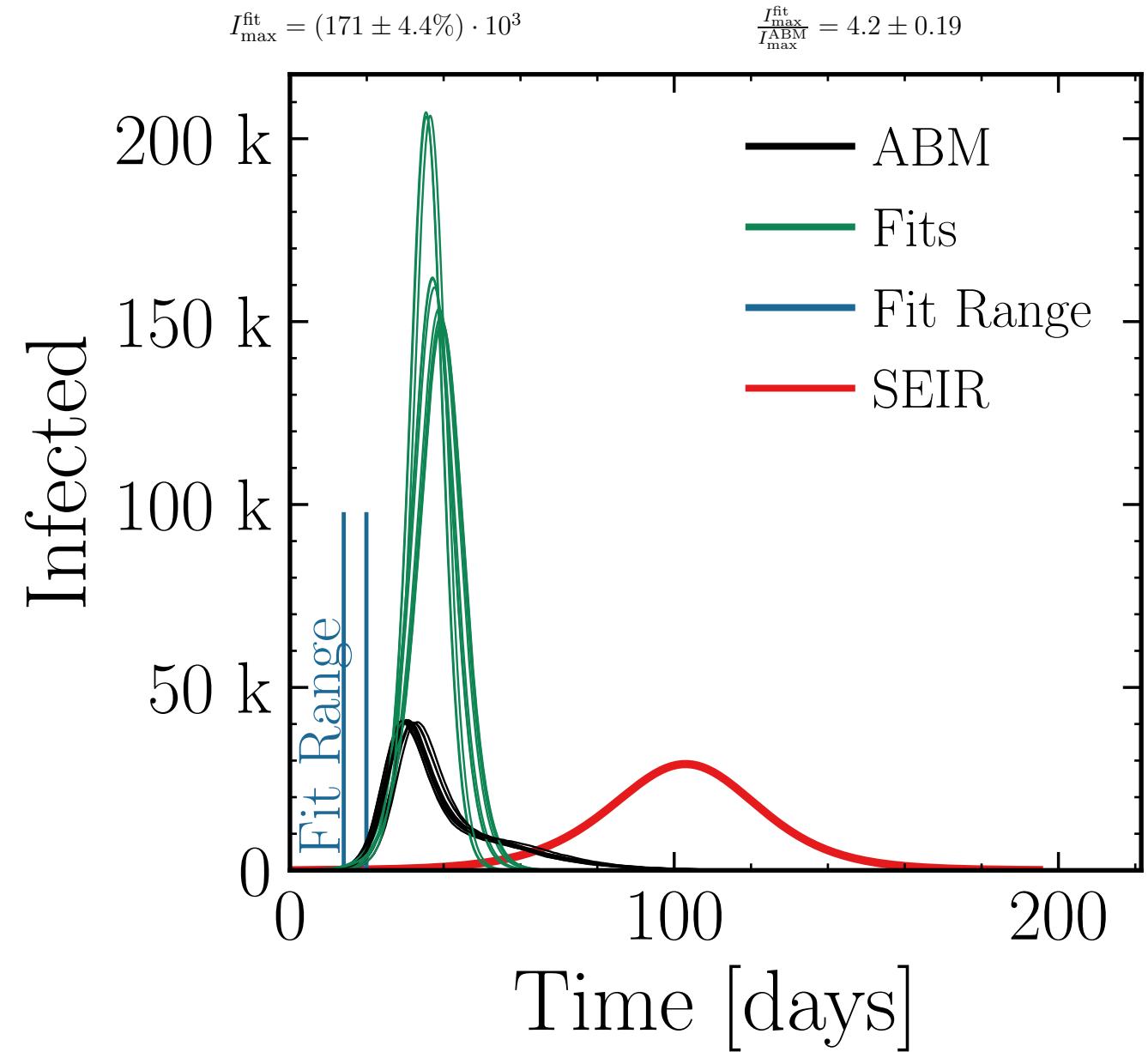
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.5$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (179 \pm 4.5\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.4 \pm 0.20$$



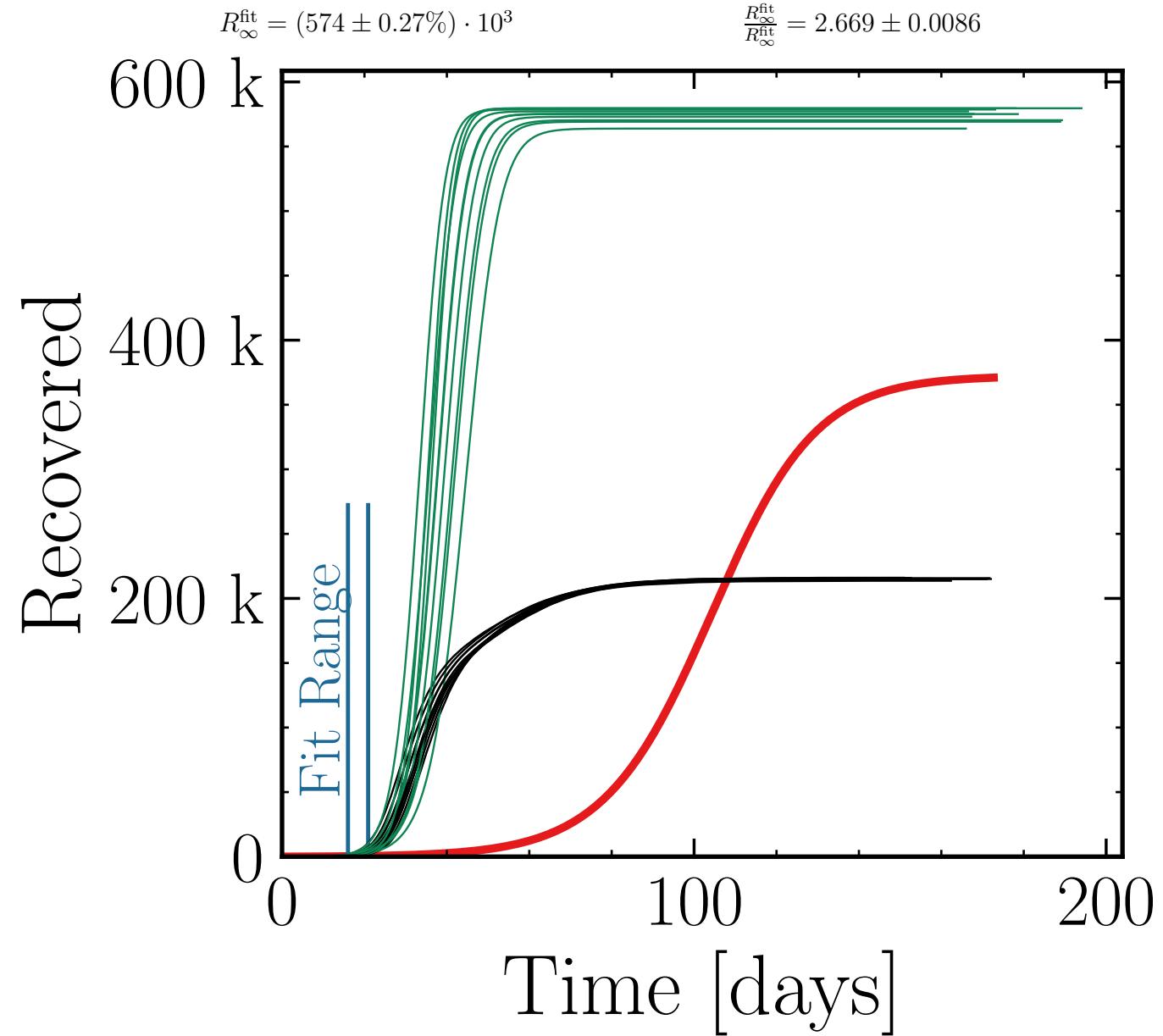
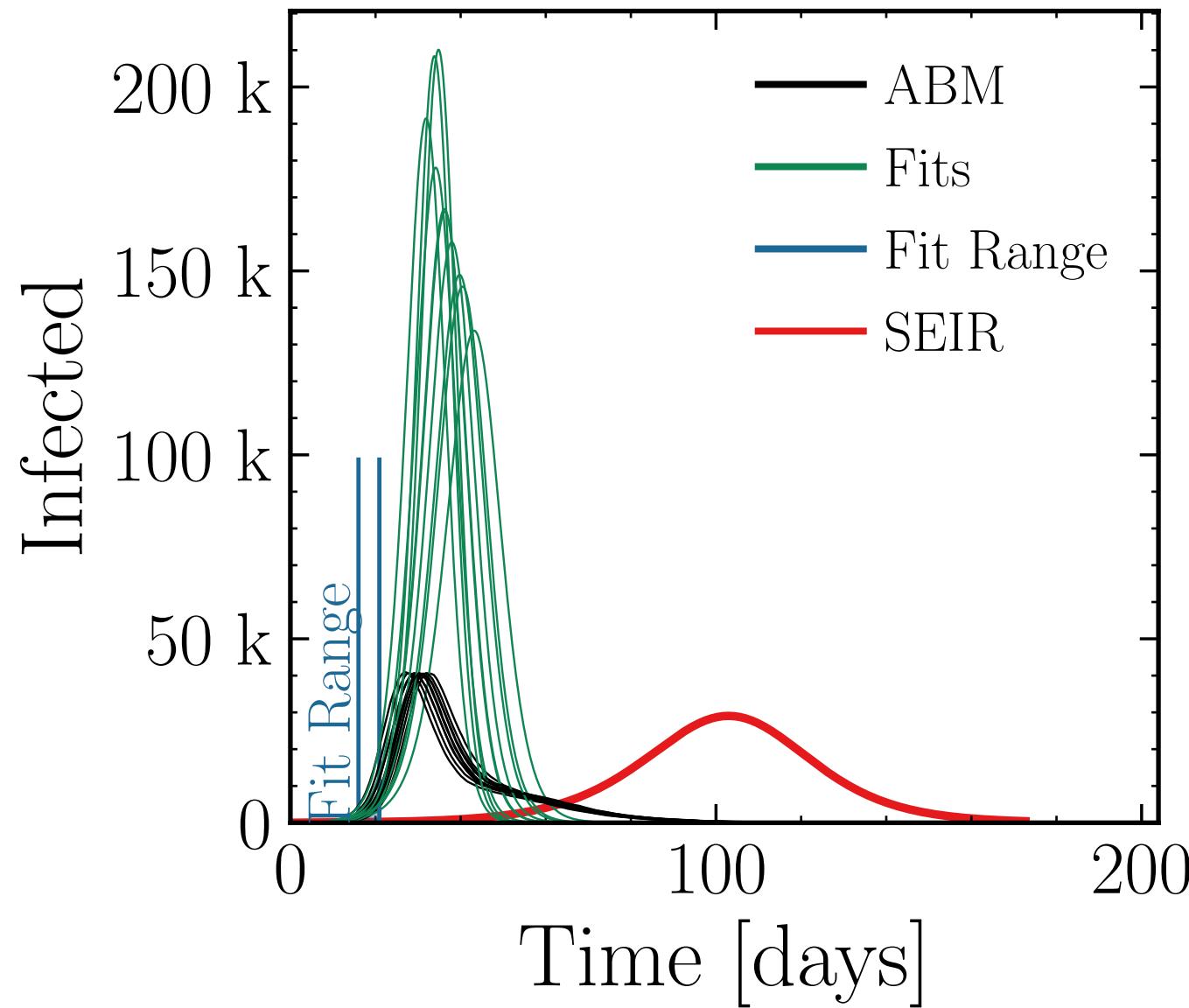
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.75$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



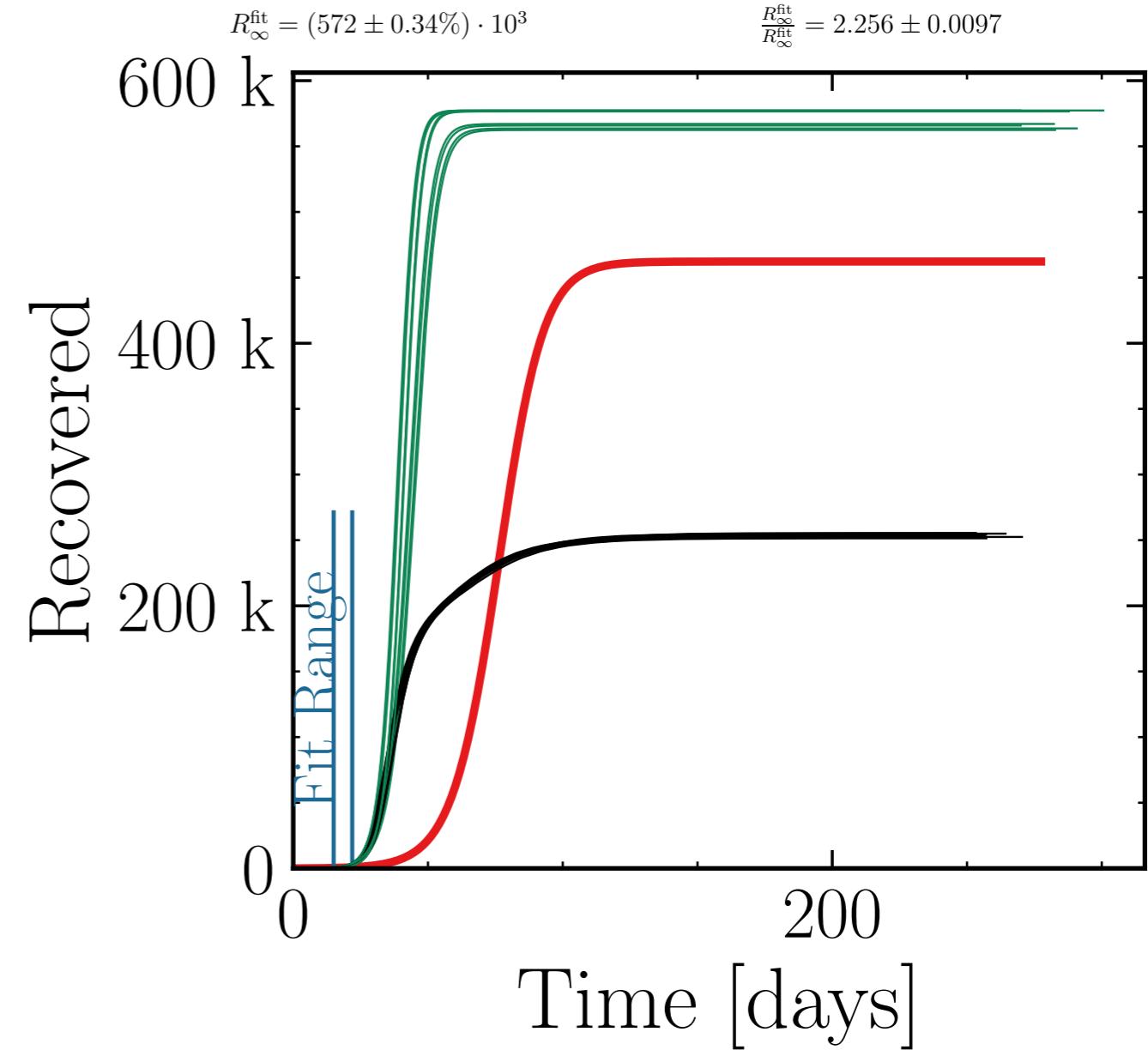
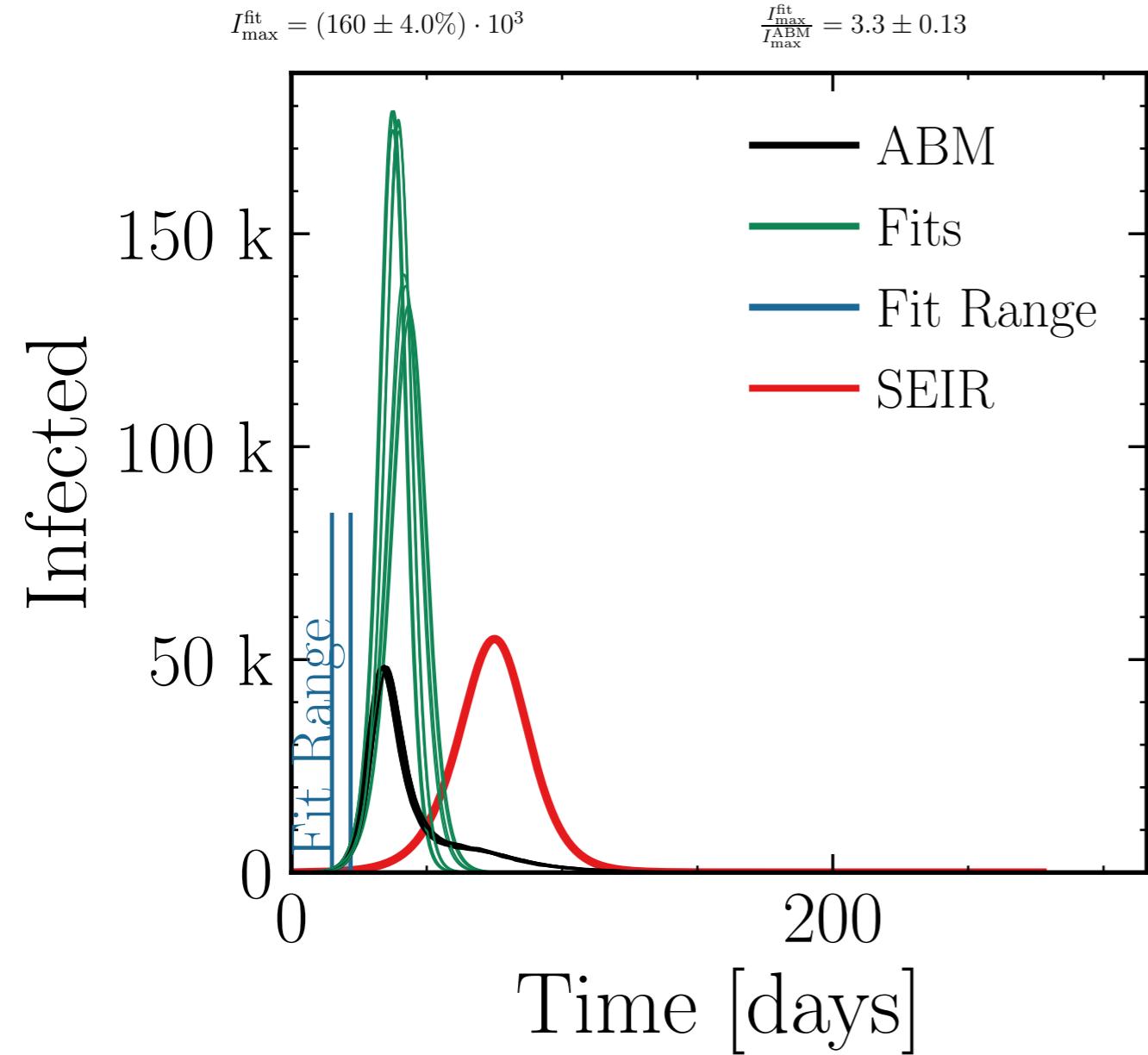
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 1.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 1.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (171 \pm 4.6\%) \cdot 10^3$$

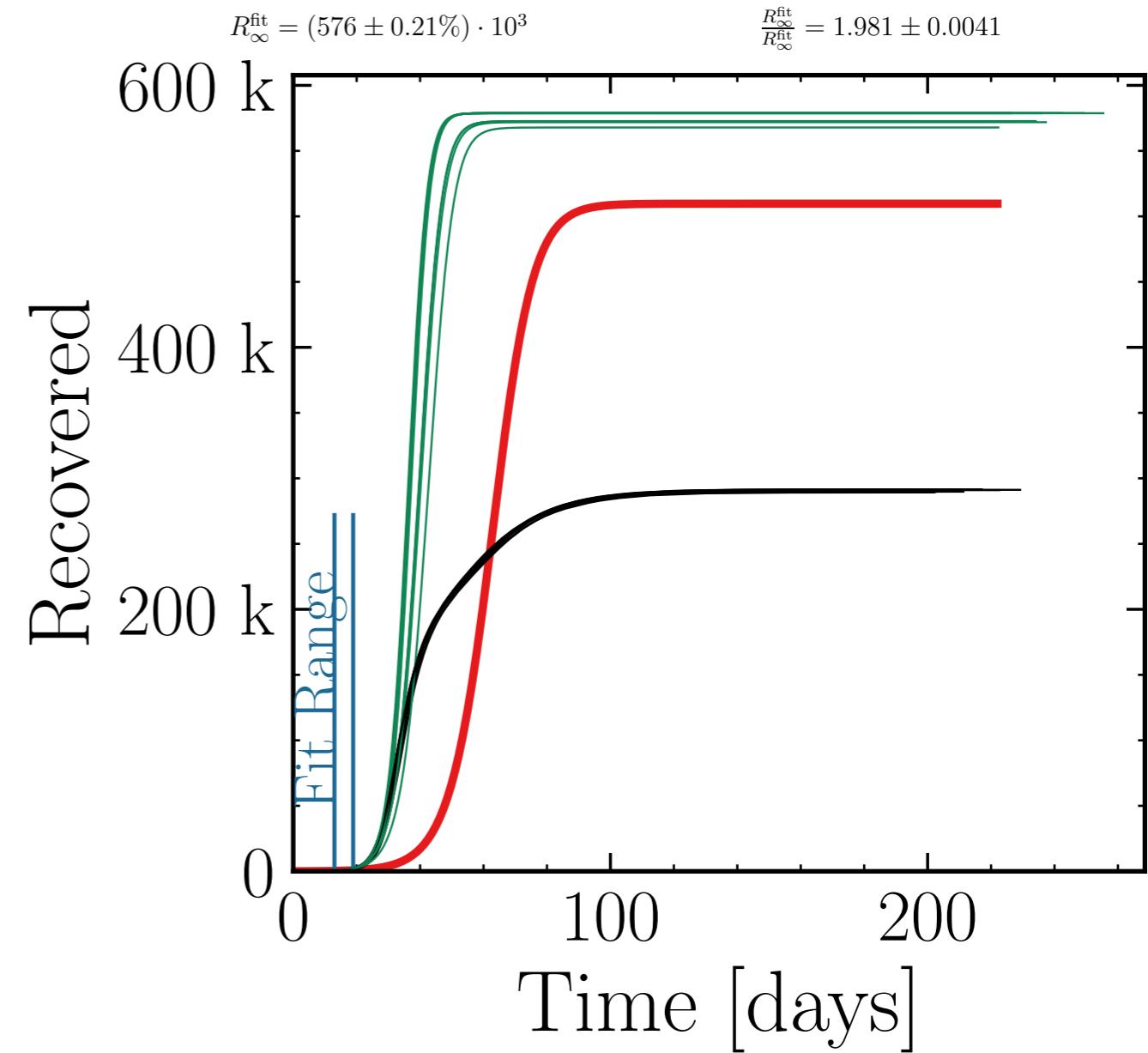
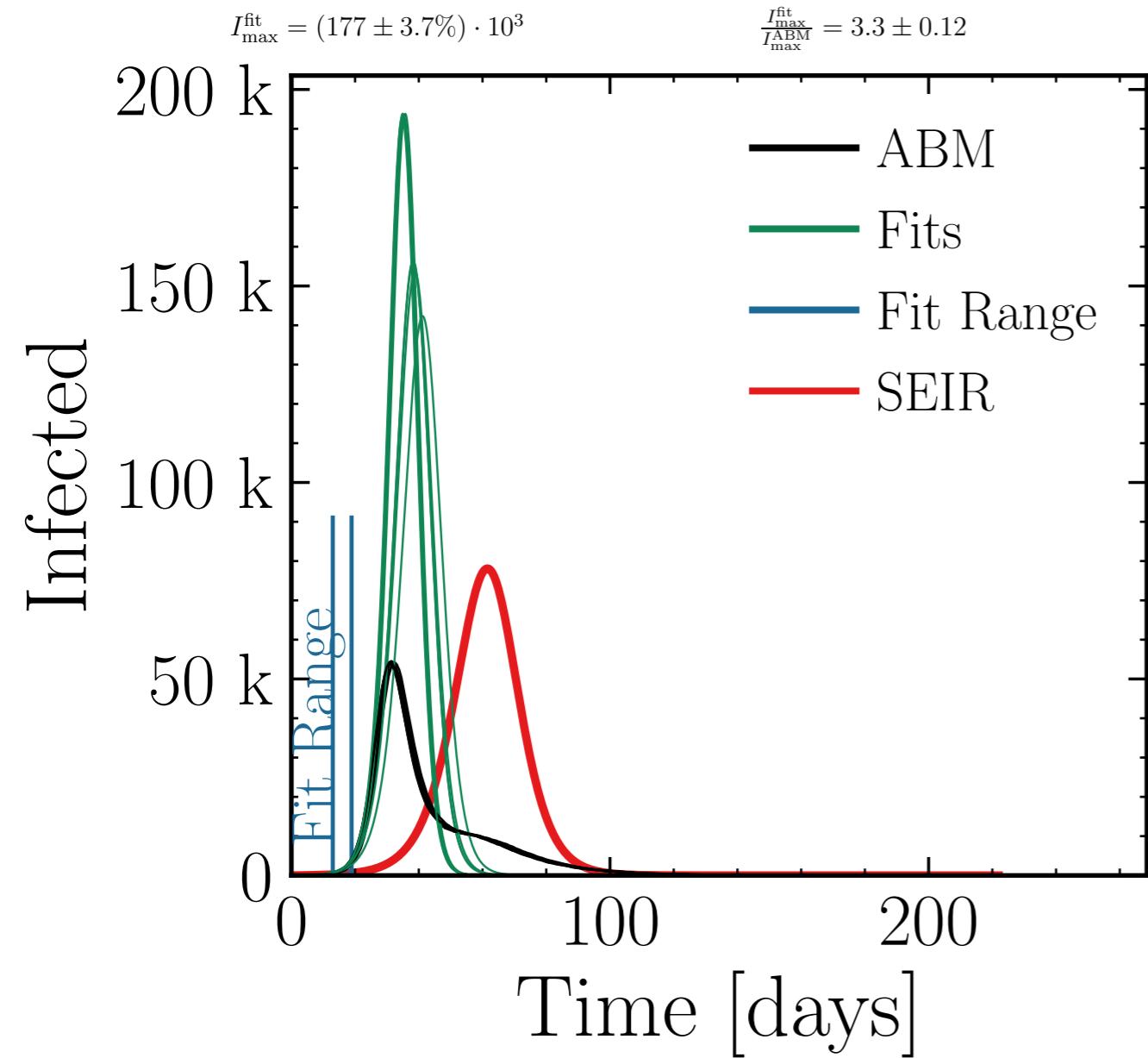
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.2 \pm 0.19$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 50.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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



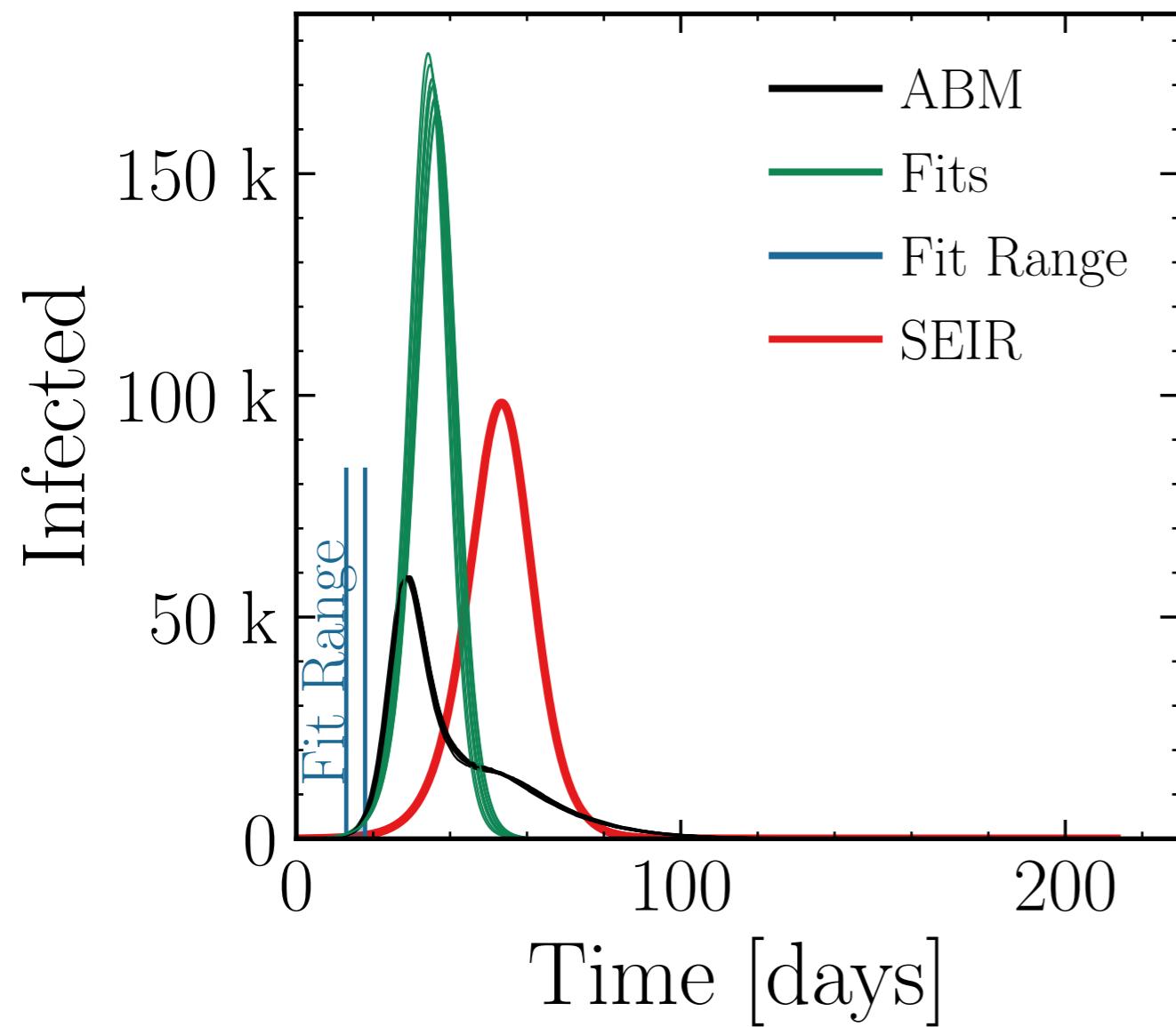
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 60.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 70.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

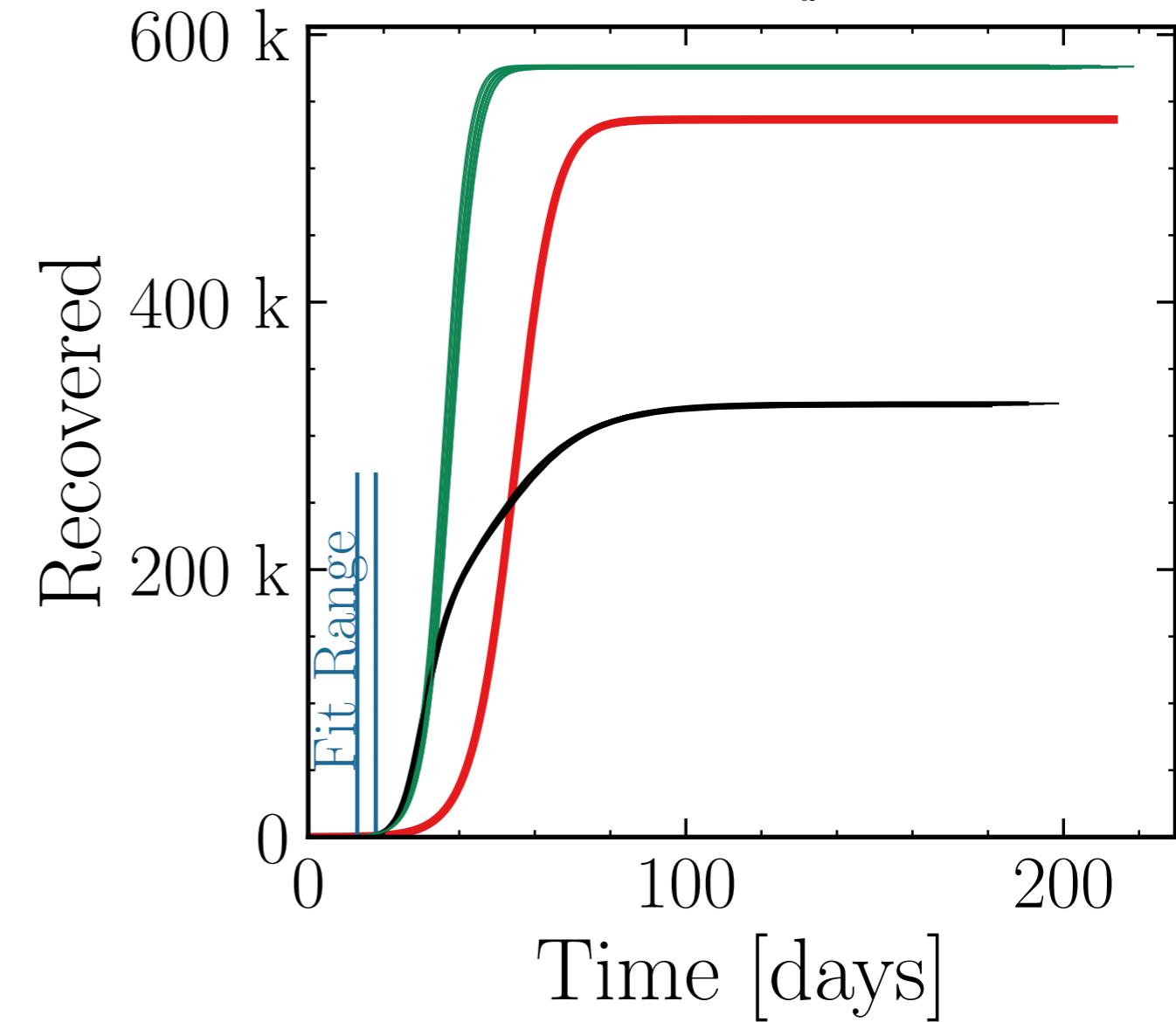
$$I_{\max}^{\text{fit}} = (169 \pm 0.77\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.87 \pm 0.021$$



$$R_{\infty}^{\text{fit}} = (575.7 \pm 0.042\%) \cdot 10^3$$

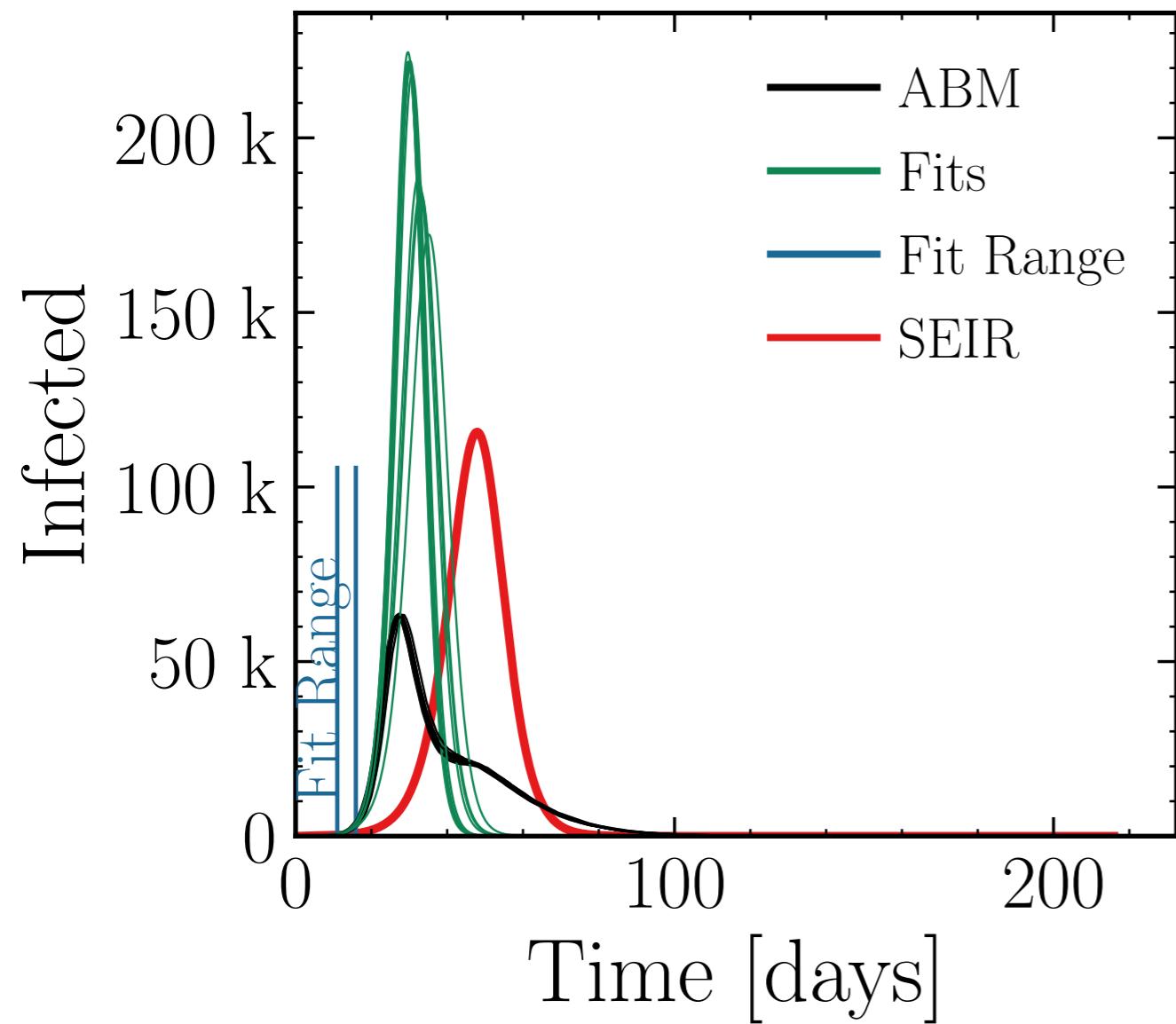
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.779 \pm 0.0014$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 80.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

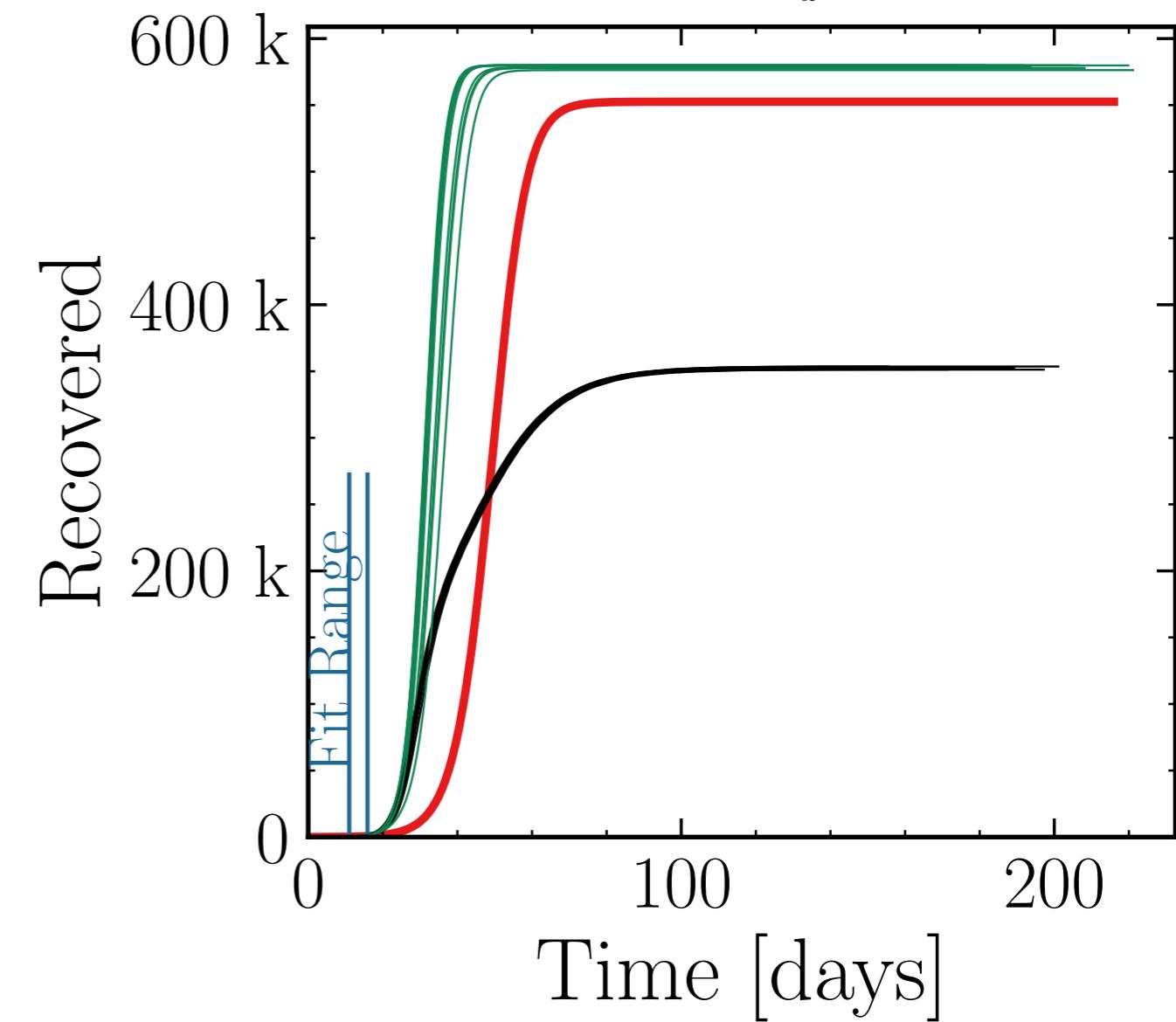
$$I_{\max}^{\text{fit}} = (206 \pm 3.0\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 3.26 \pm 0.099$$



$$R_{\infty}^{\text{fit}} = (579 \pm 0.065\%) \cdot 10^3$$

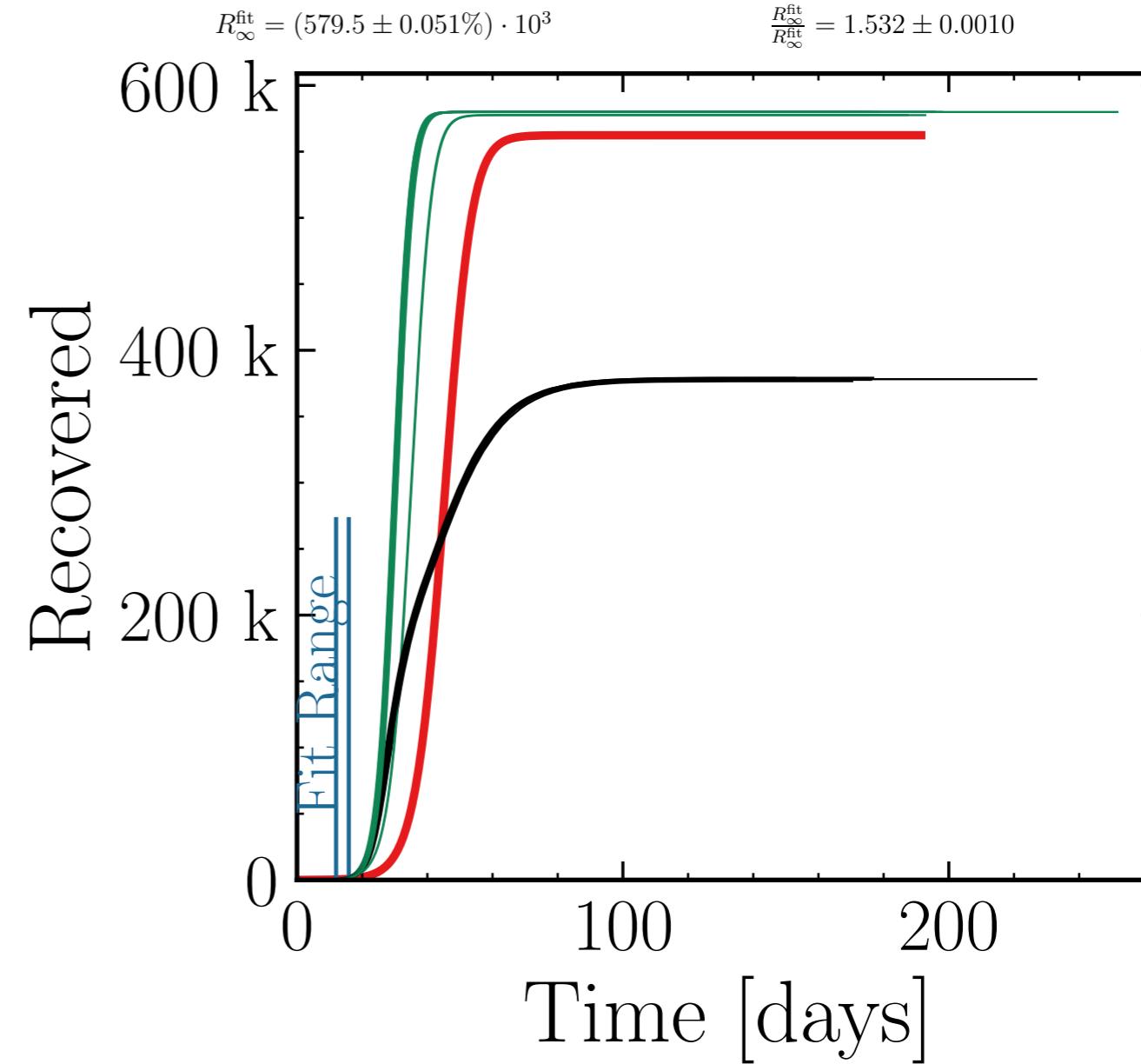
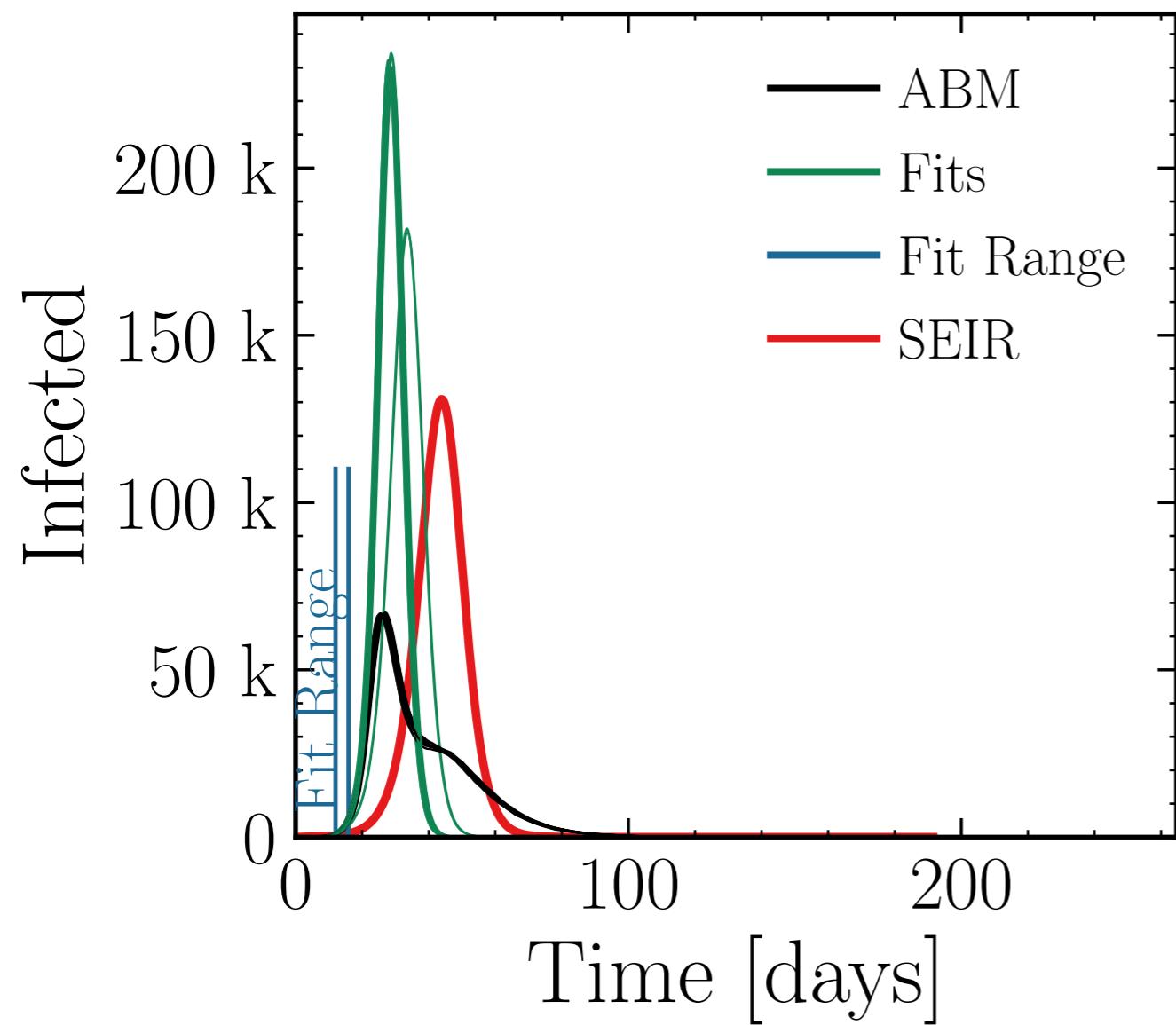
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.643 \pm 0.0020$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 90.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (221 \pm 2.8\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.31 \pm 0.097$$



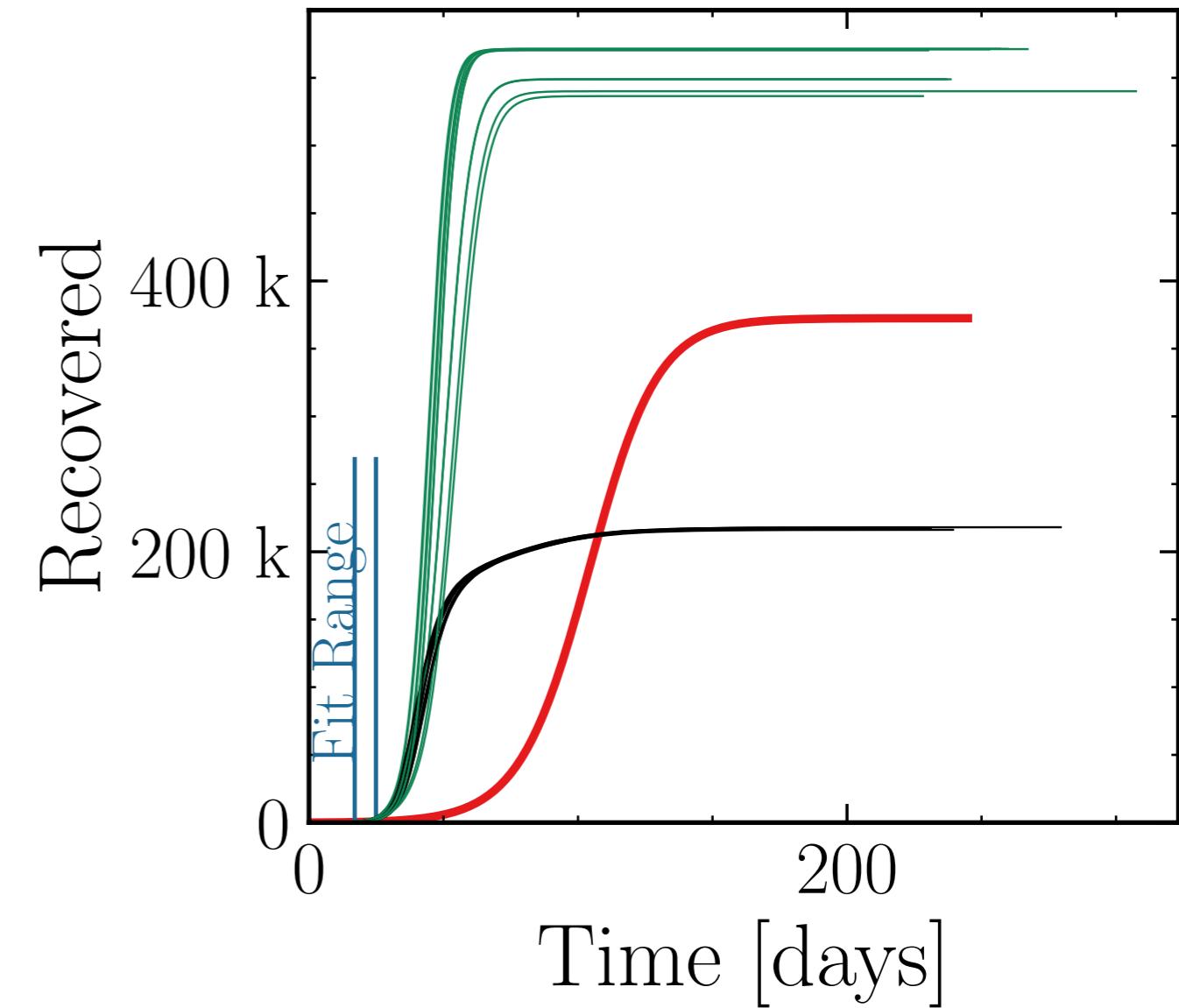
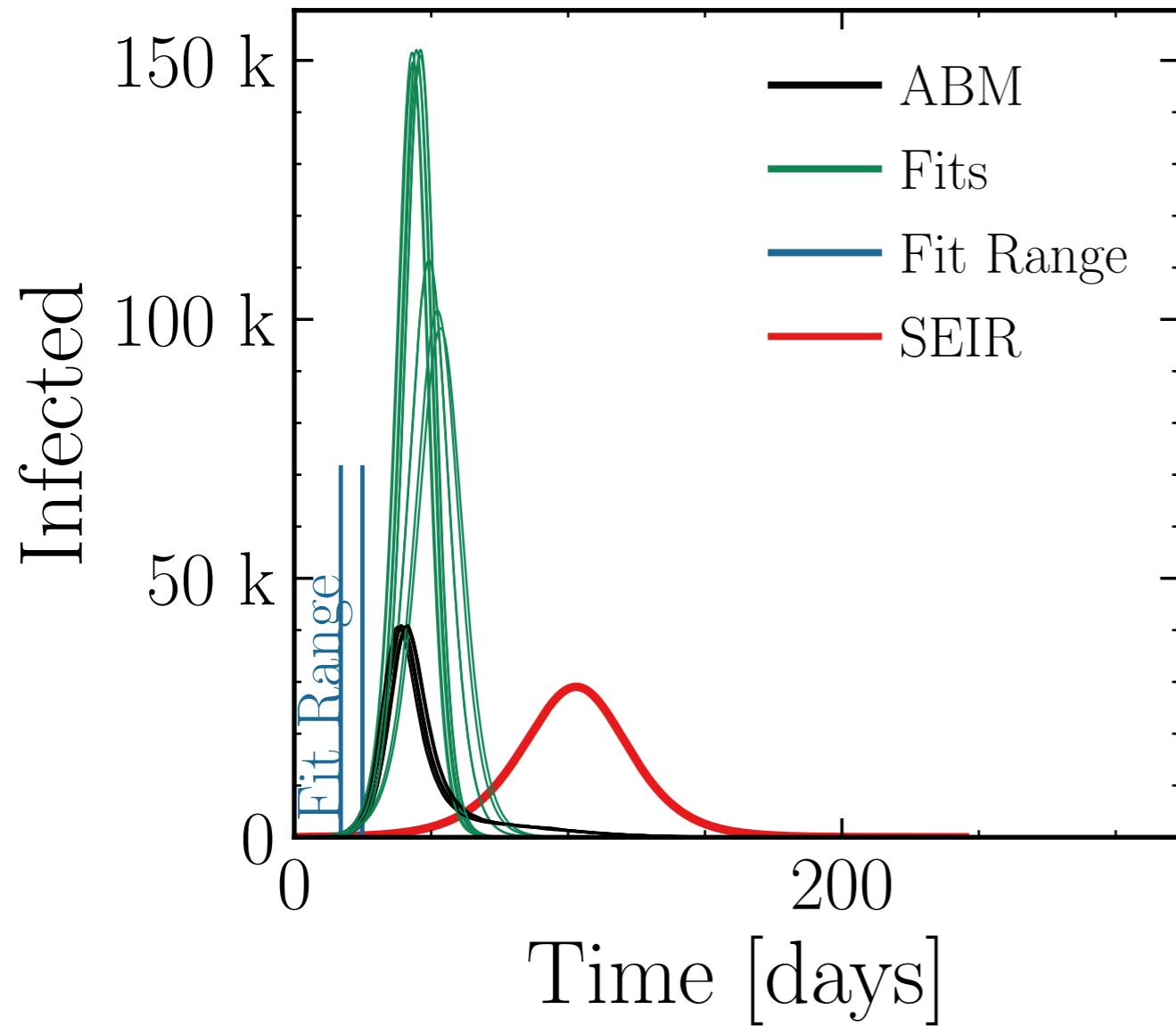
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.05$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (133 \pm 5.3\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.3 \pm 0.17$$

$$R_{\infty}^{\text{fit}} = (560 \pm 0.78\%) \cdot 10^3$$

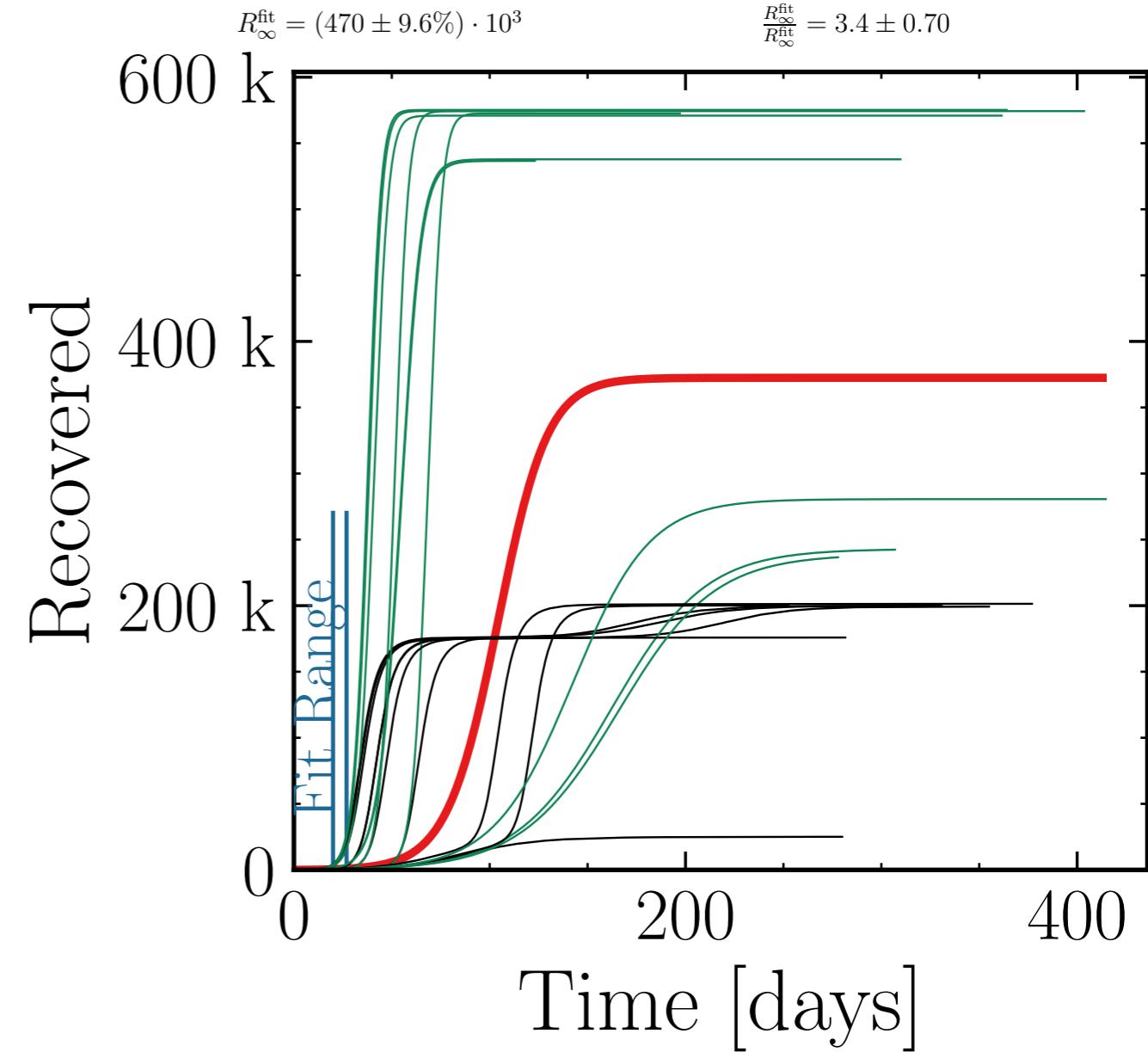
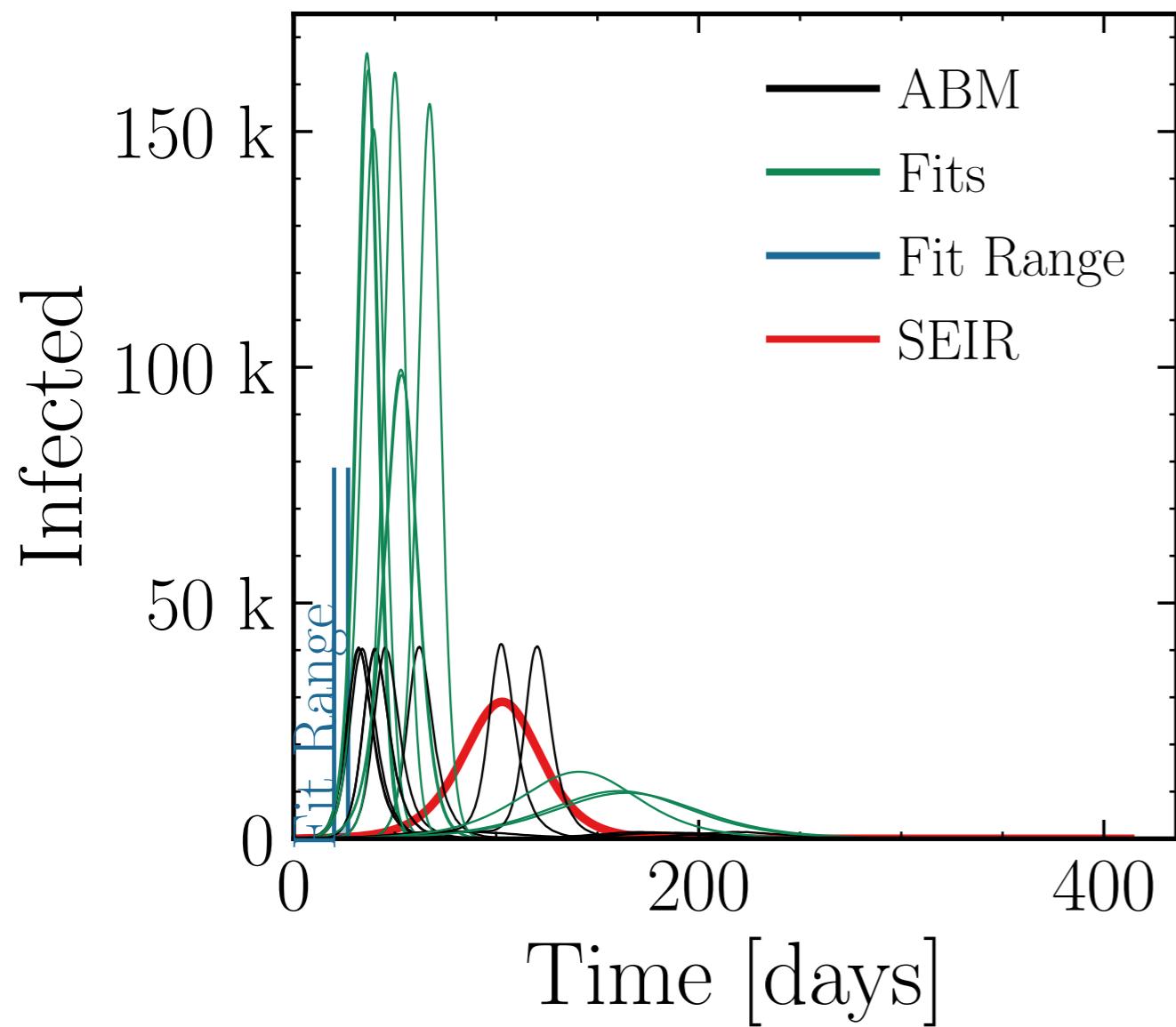
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.58 \pm 0.021$$



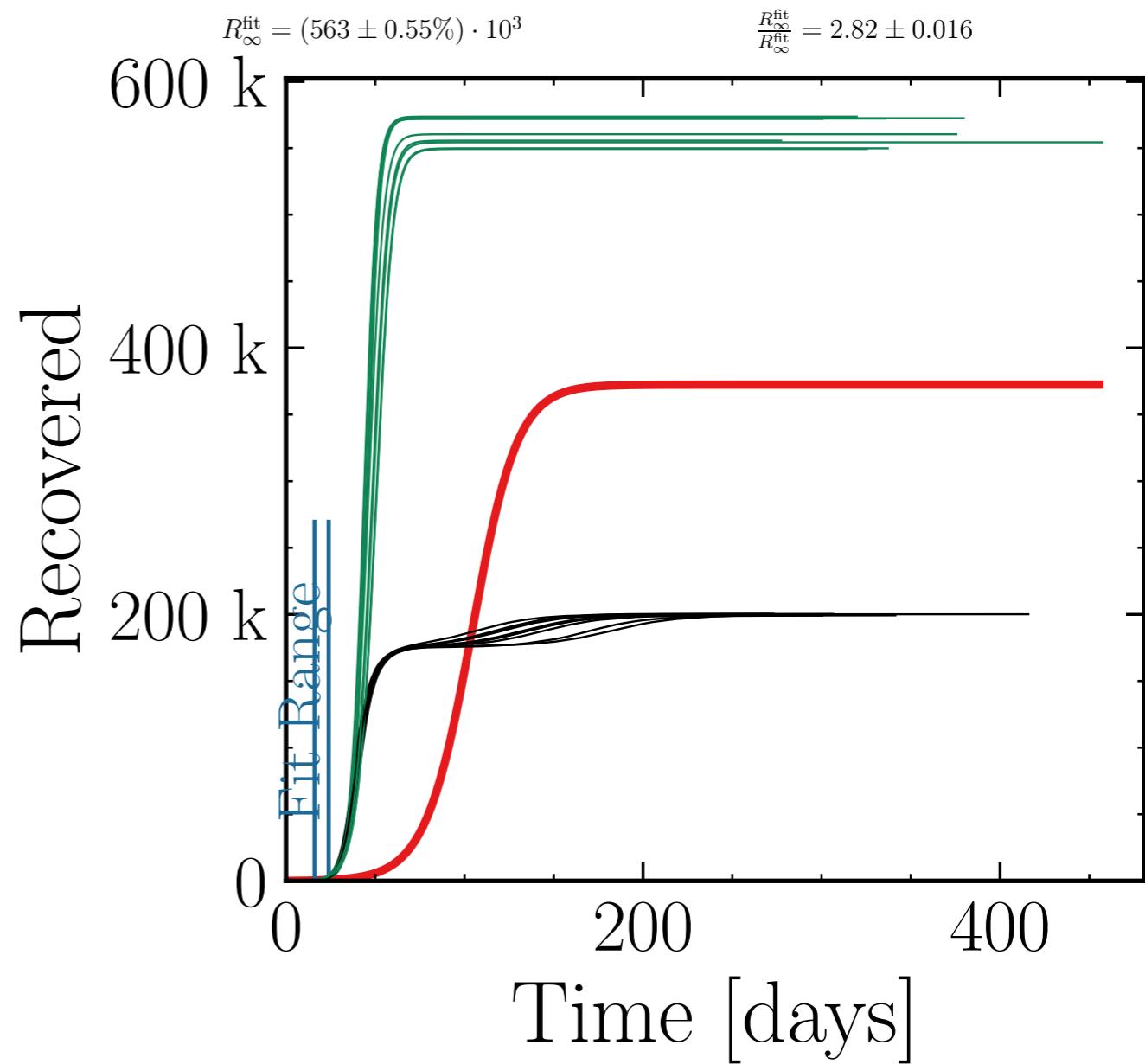
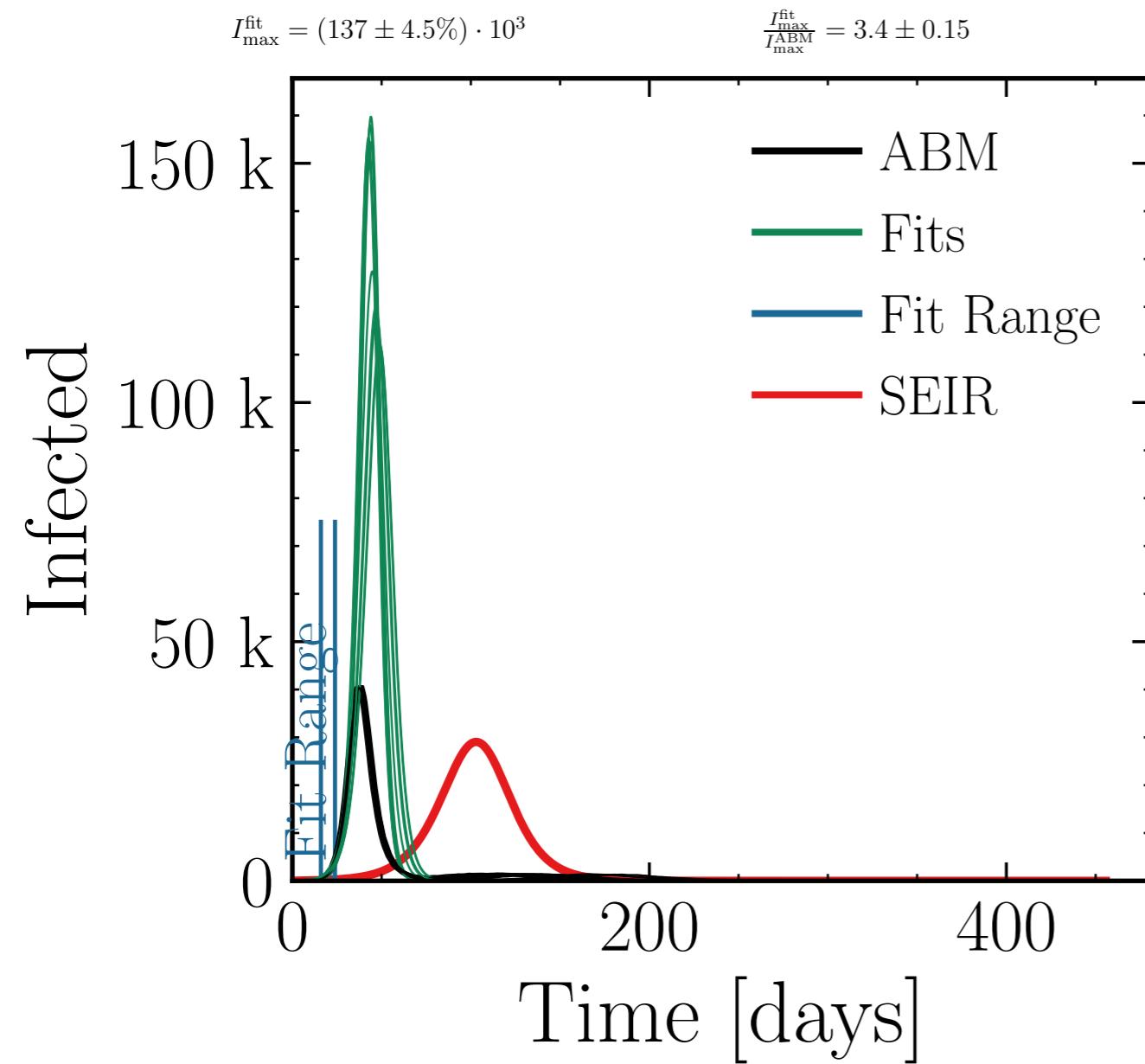
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = False,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (100 \pm 2e + 01\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.2 \pm 0.58$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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



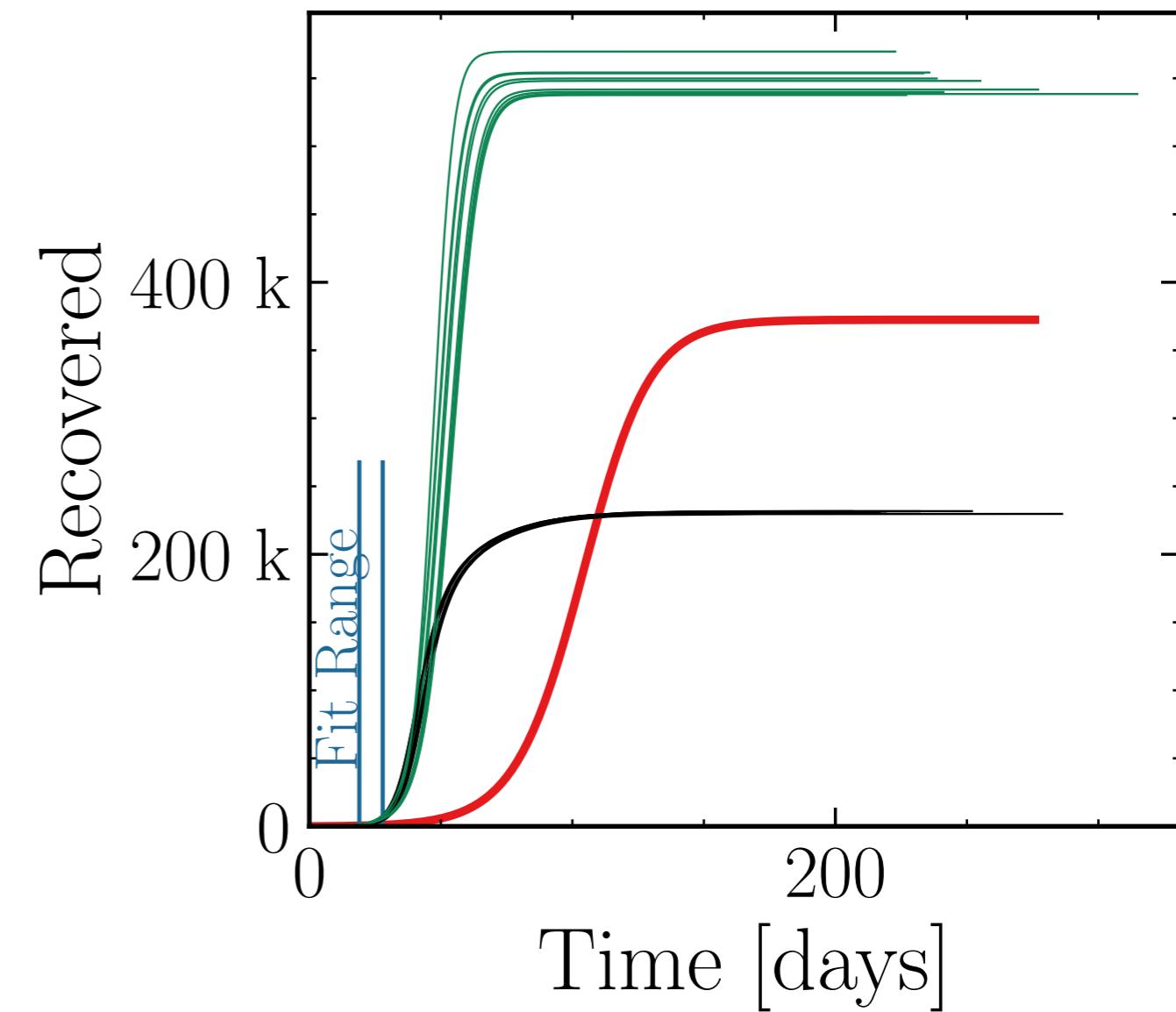
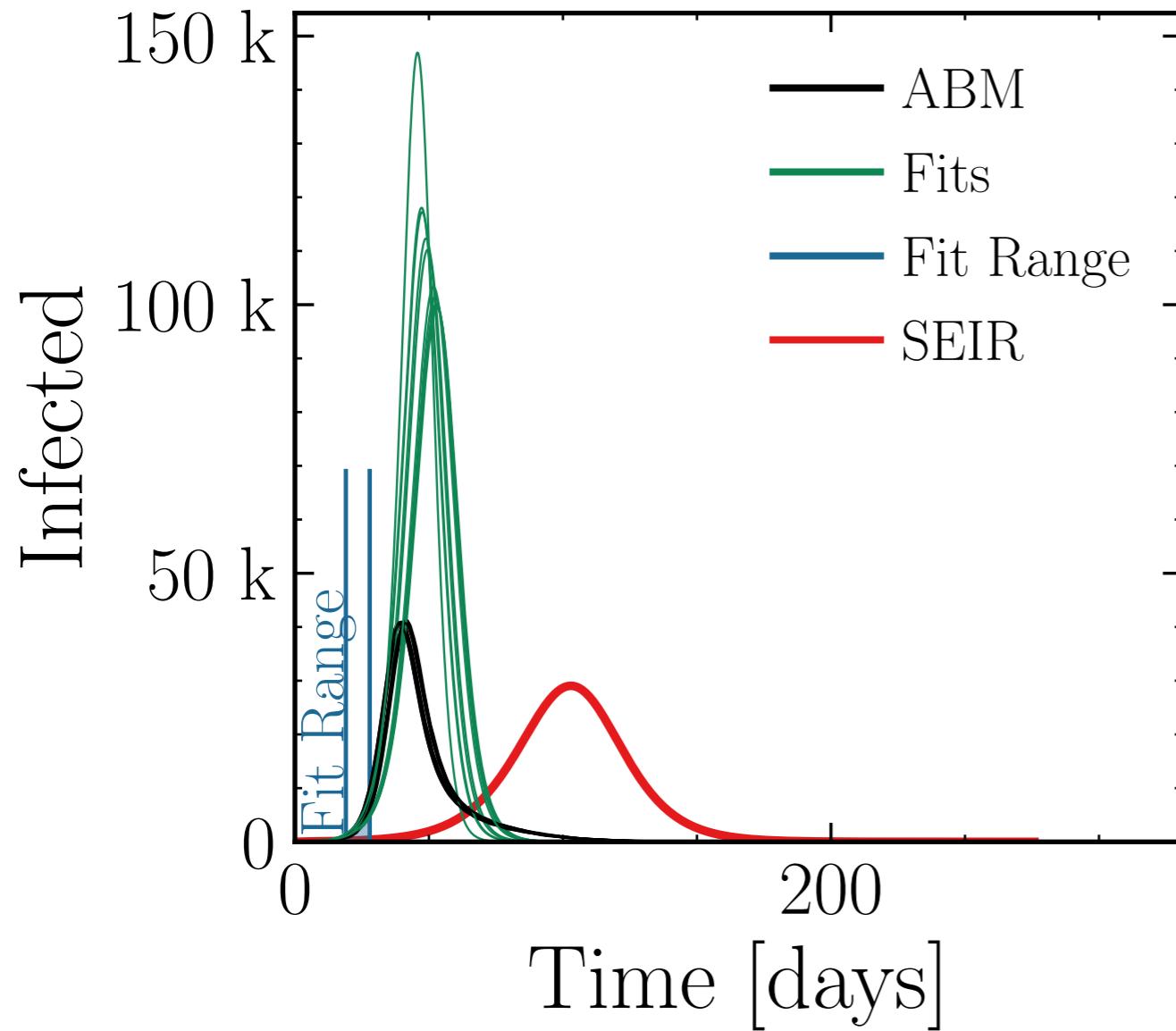
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.1$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (111 \pm 3.9\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (547 \pm 0.56\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 2.37 \pm 0.013$$



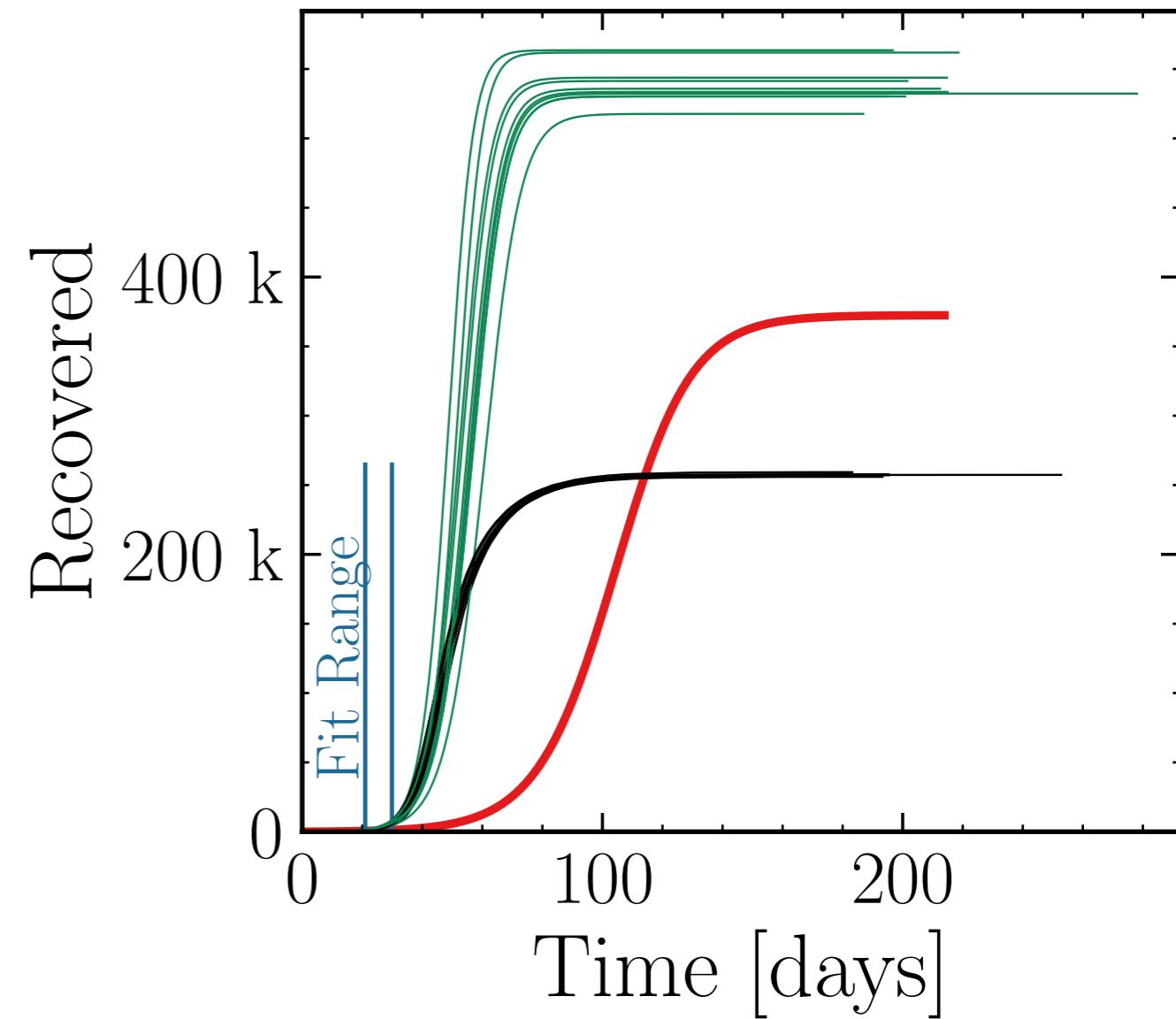
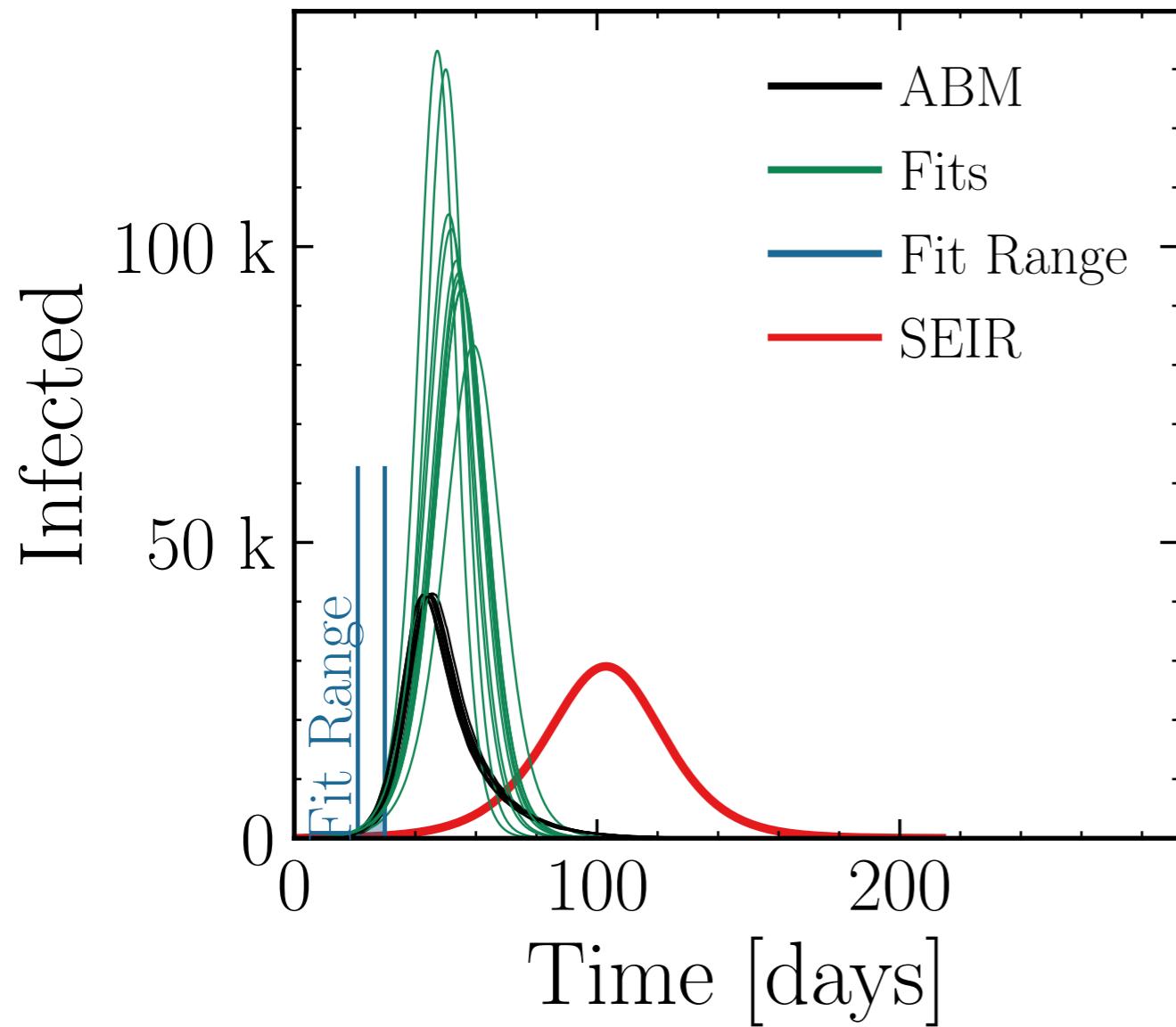
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.2$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (103 \pm 4.8\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (539 \pm 0.8\%) \cdot 10^3$$

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



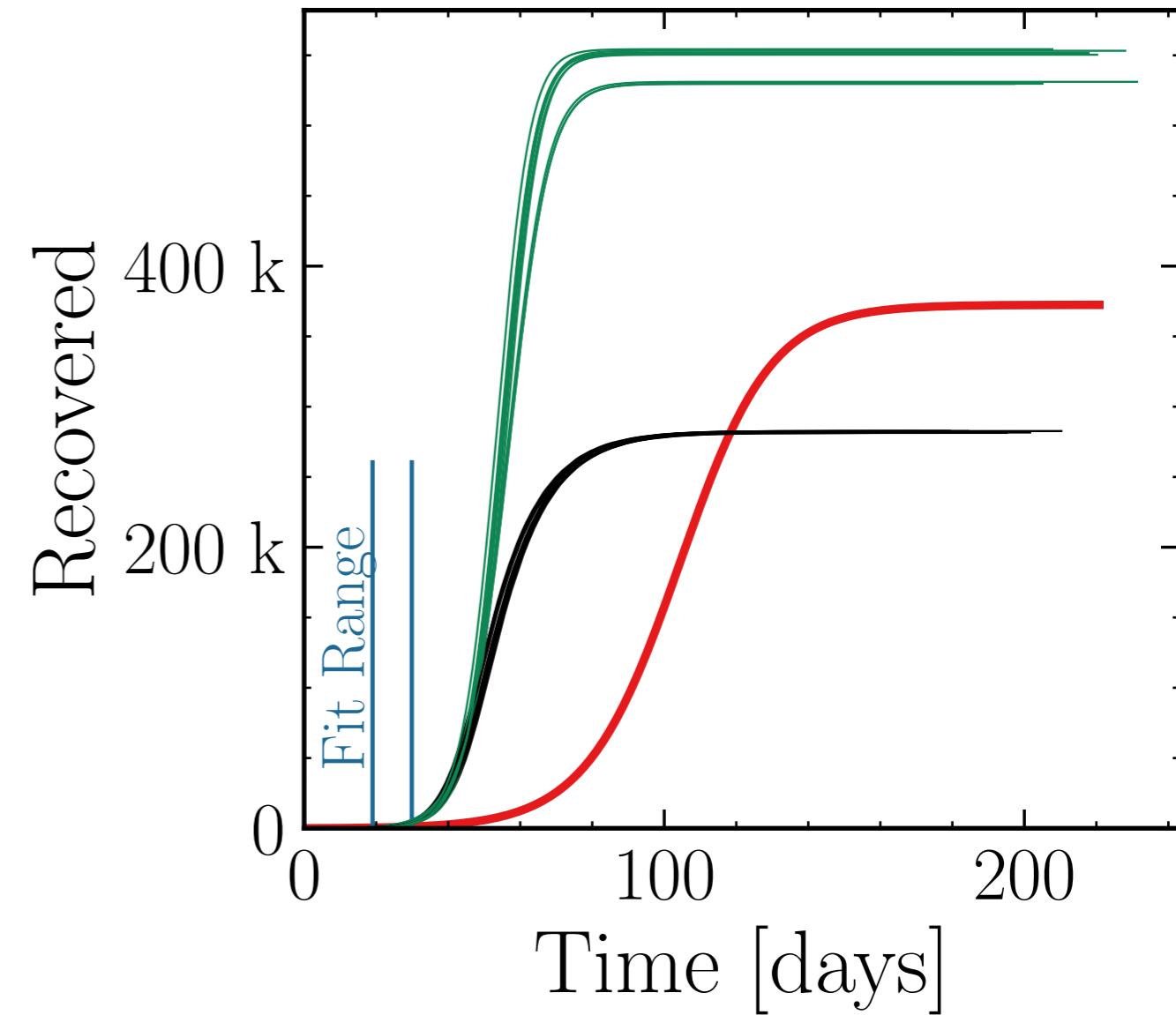
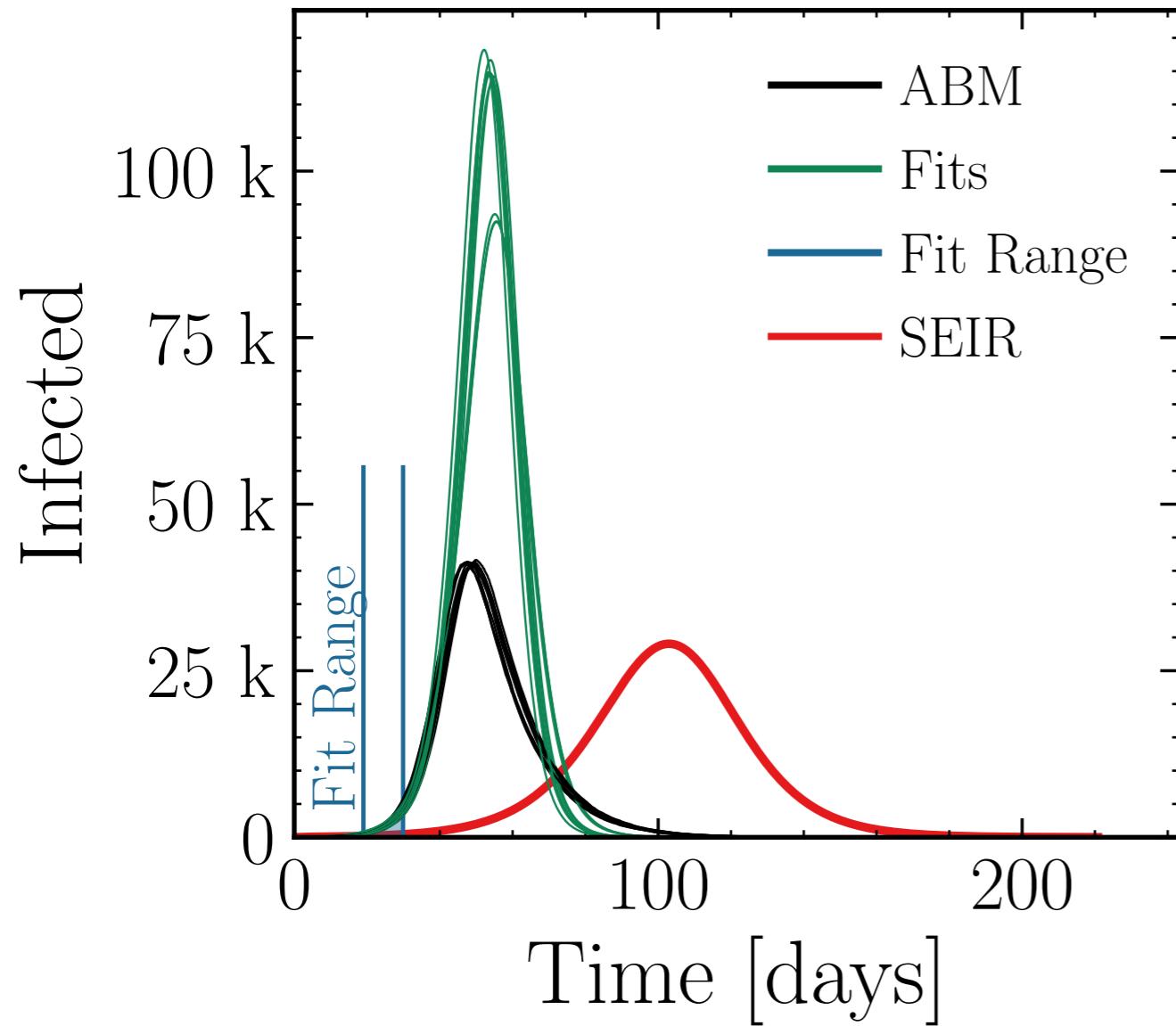
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.3$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (108 \pm 3.0\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (546 \pm 0.59\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.93 \pm 0.012$$



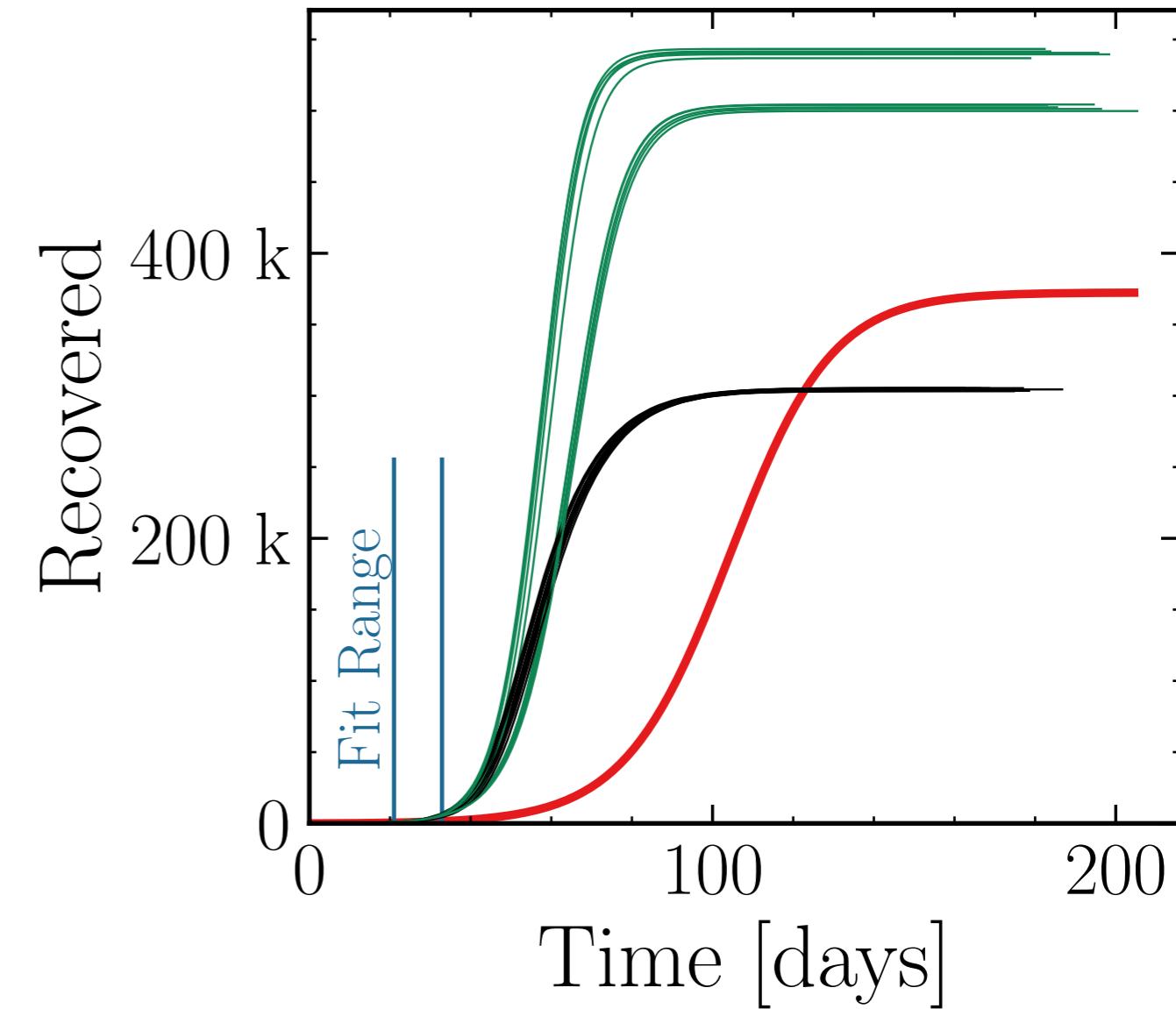
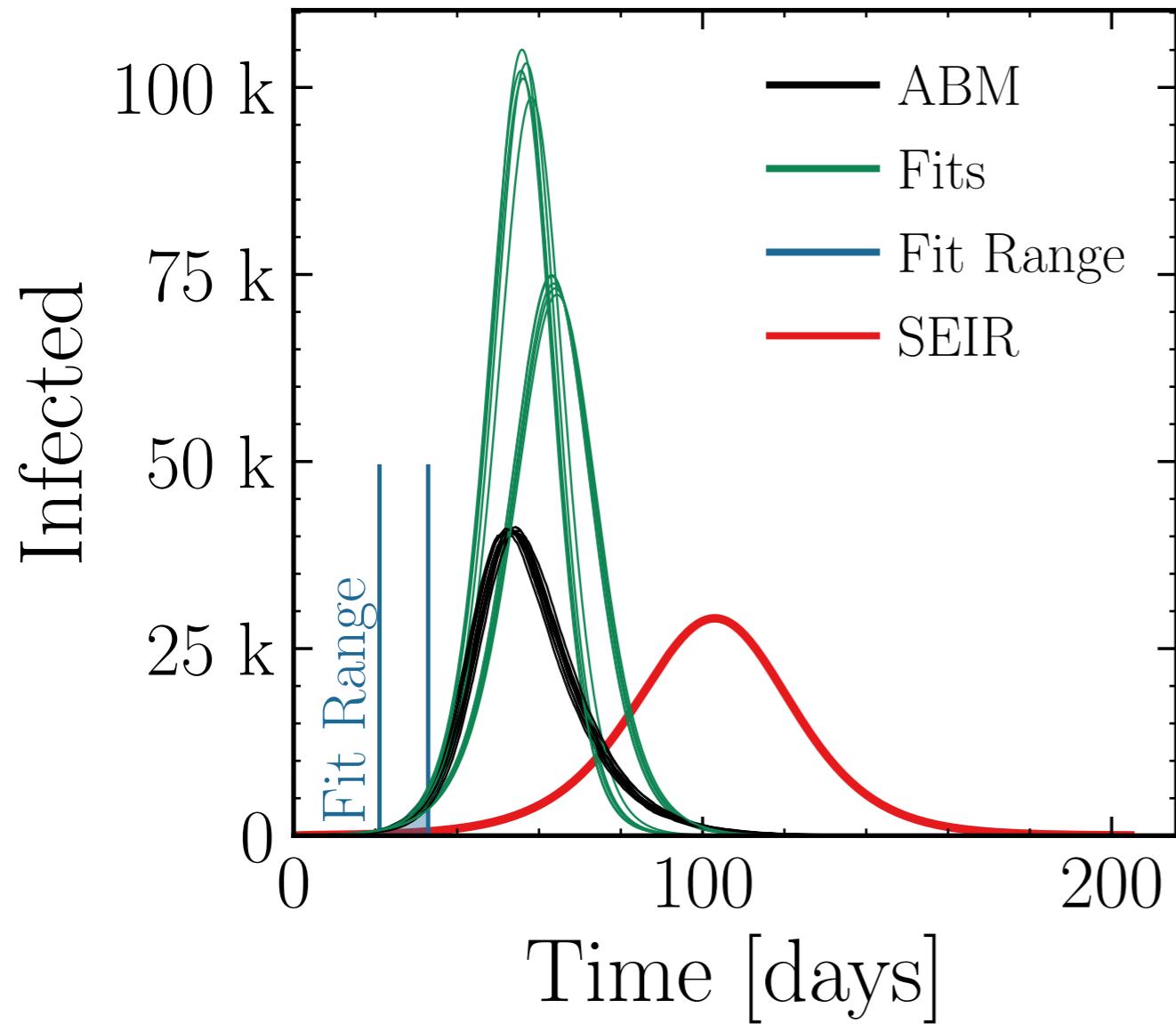
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.4$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (88 \pm 5.1\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 2.2 \pm 0.11$$

$$R_{\infty}^{\text{fit}} = (521 \pm 1.2\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.71 \pm 0.020$$



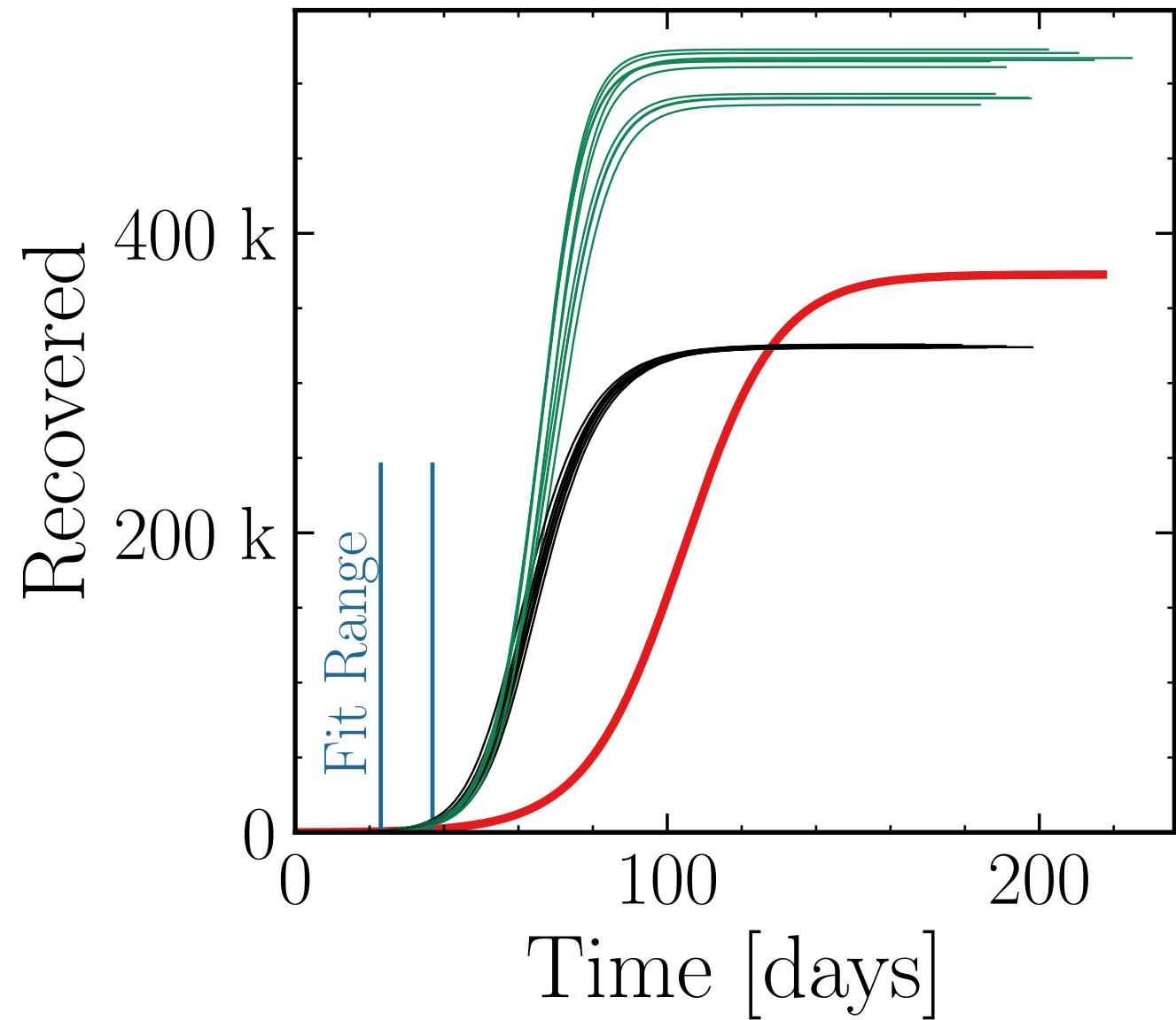
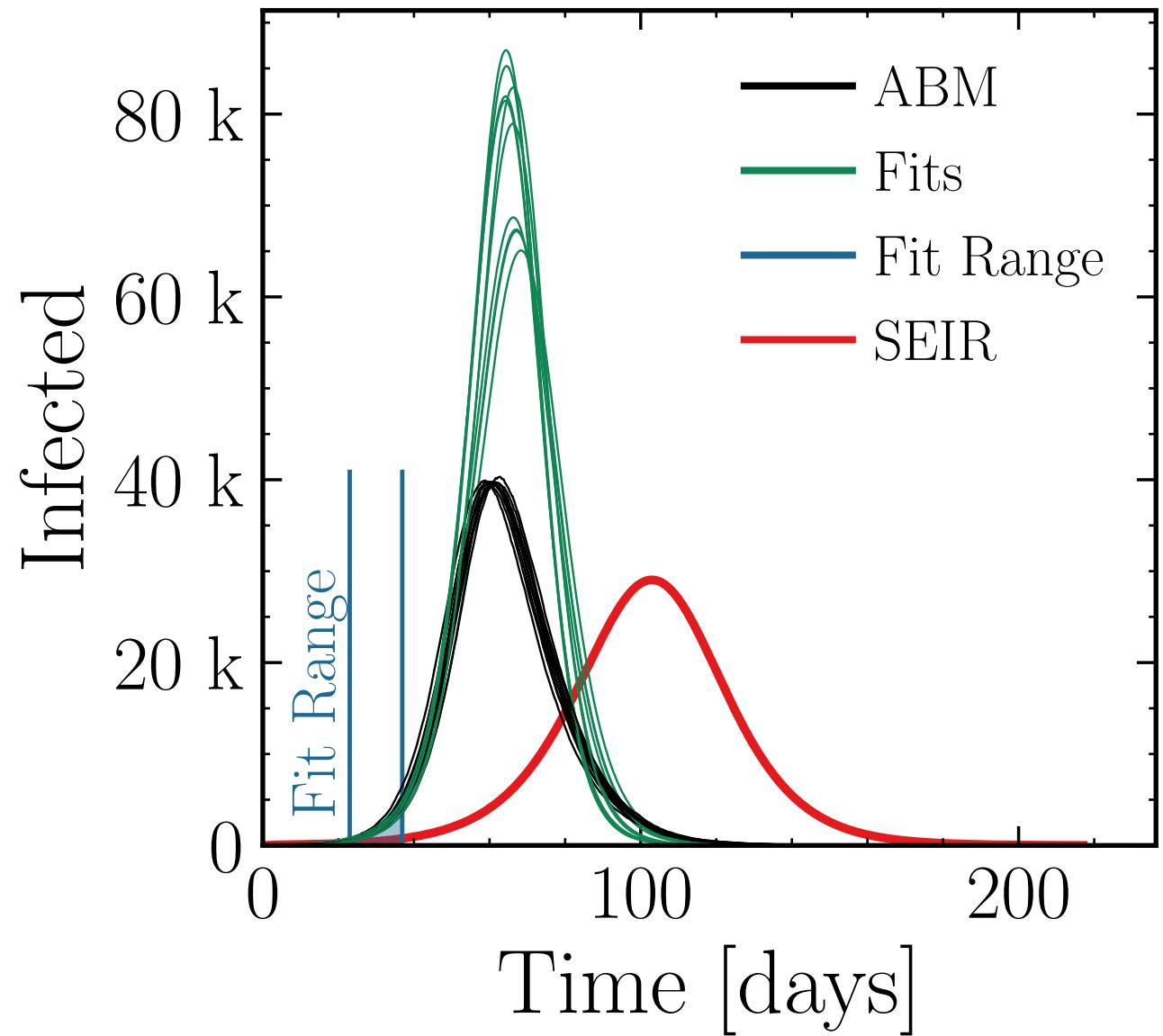
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.5$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\text{max}}^{\text{fit}} = (77 \pm 3.3\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (506 \pm 0.86\%) \cdot 10^3$$

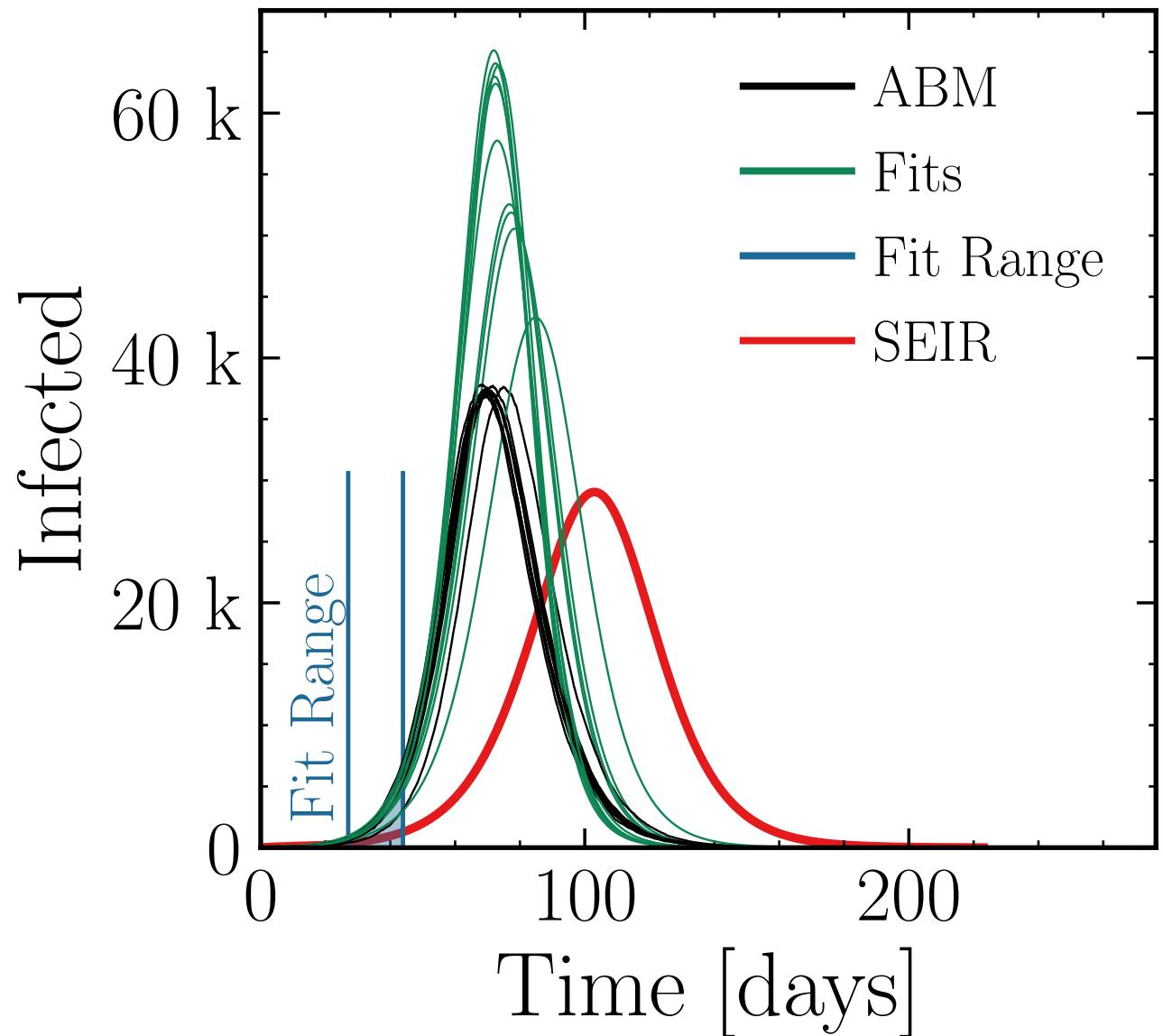
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.56 \pm 0.014$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.6$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

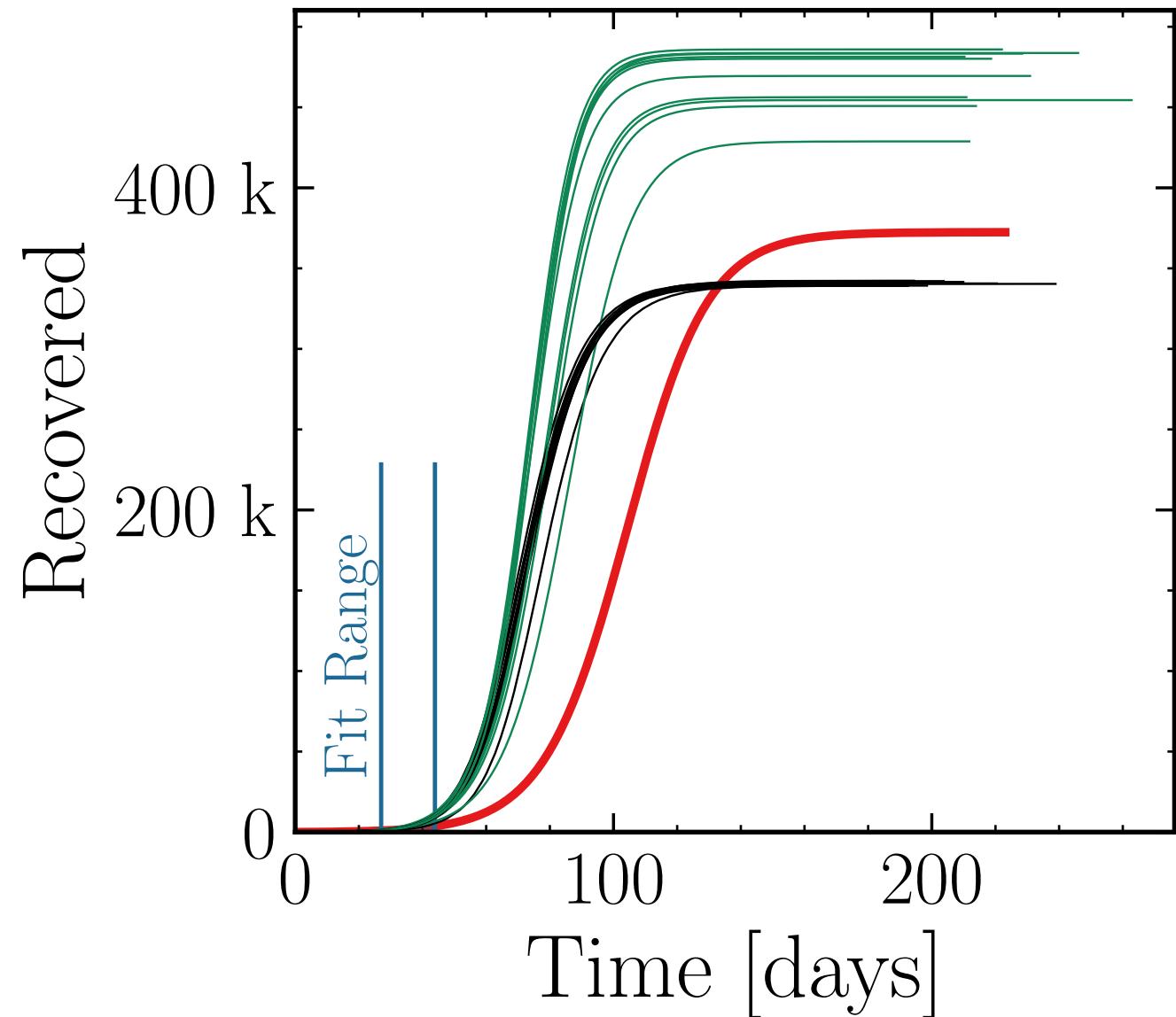
$$I_{\max}^{\text{fit}} = (57 \pm 3.9\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.54 \pm 0.062$$



$$R_{\infty}^{\text{fit}} = (467 \pm 1.2\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.37 \pm 0.017$$



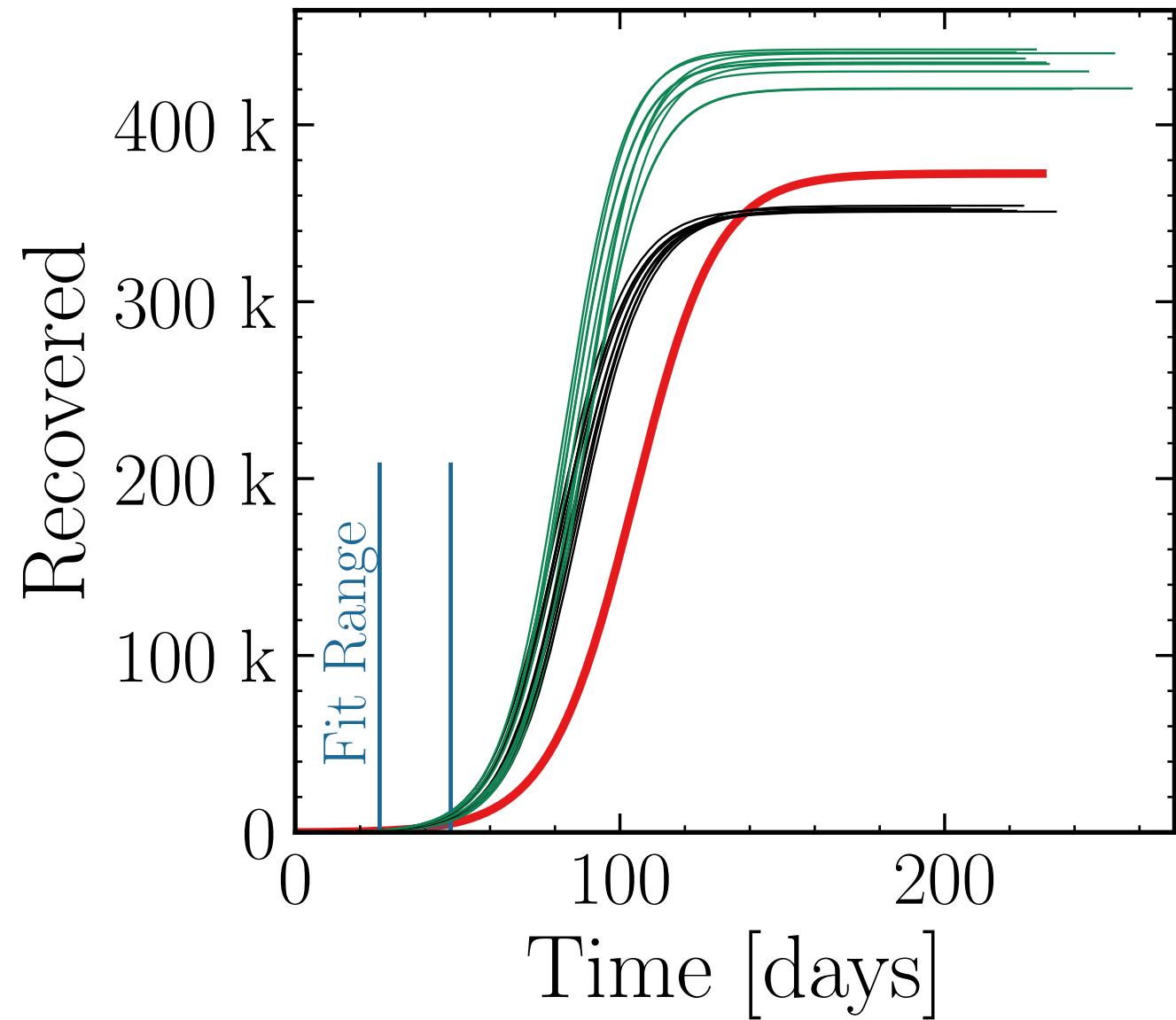
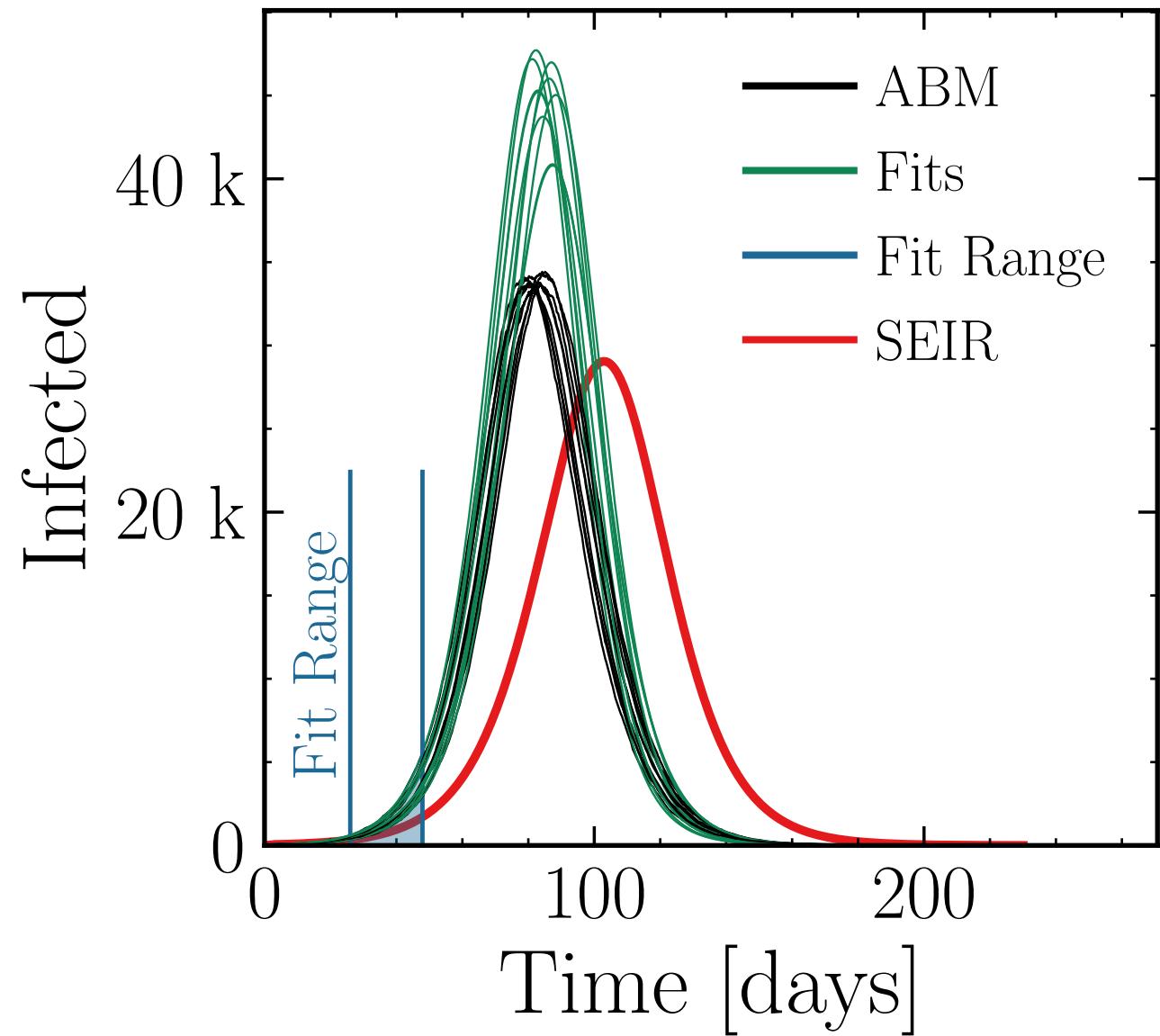
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.7$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (44.9 \pm 1.6\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (434 \pm 0.55\%) \cdot 10^3$$

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



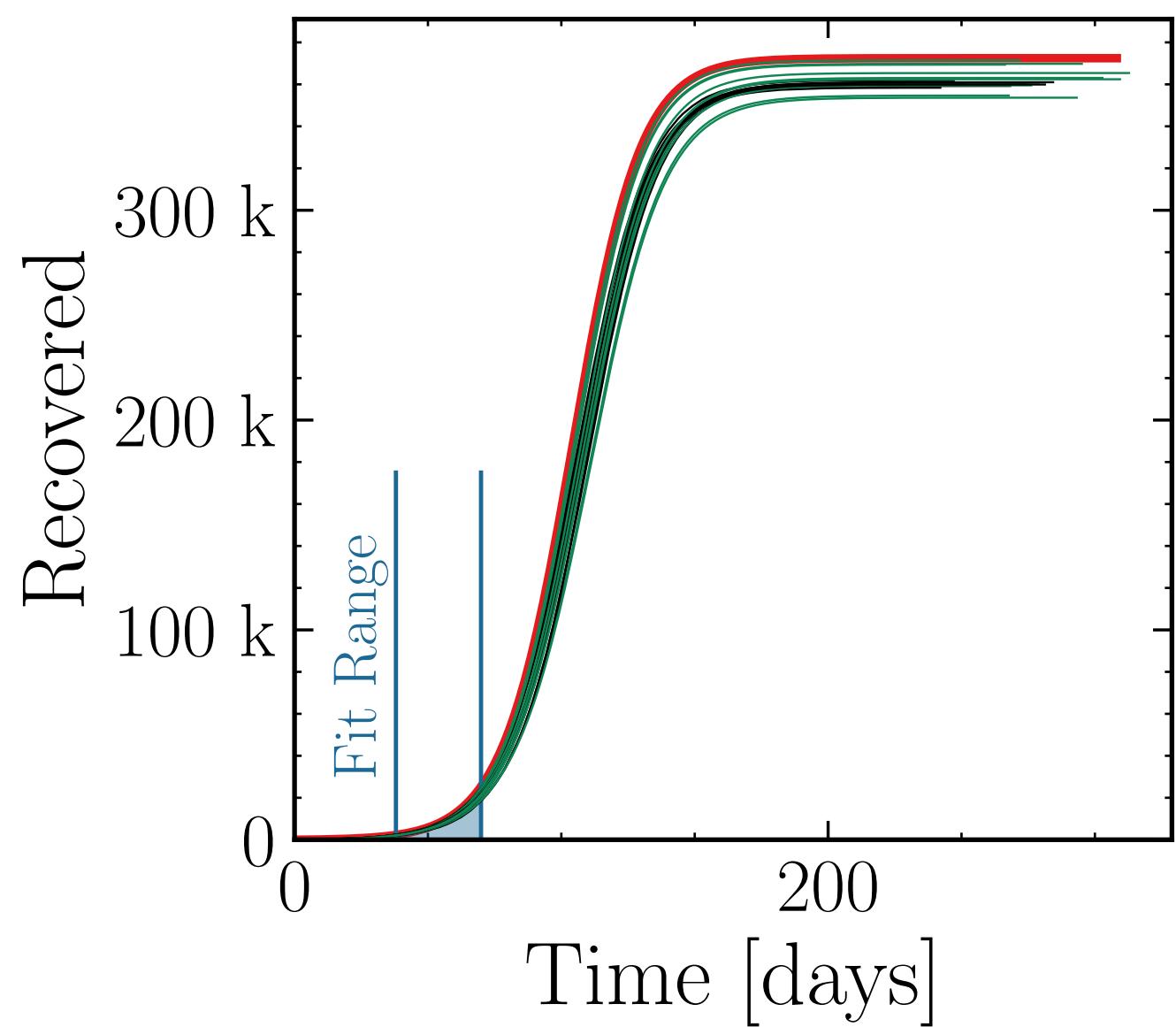
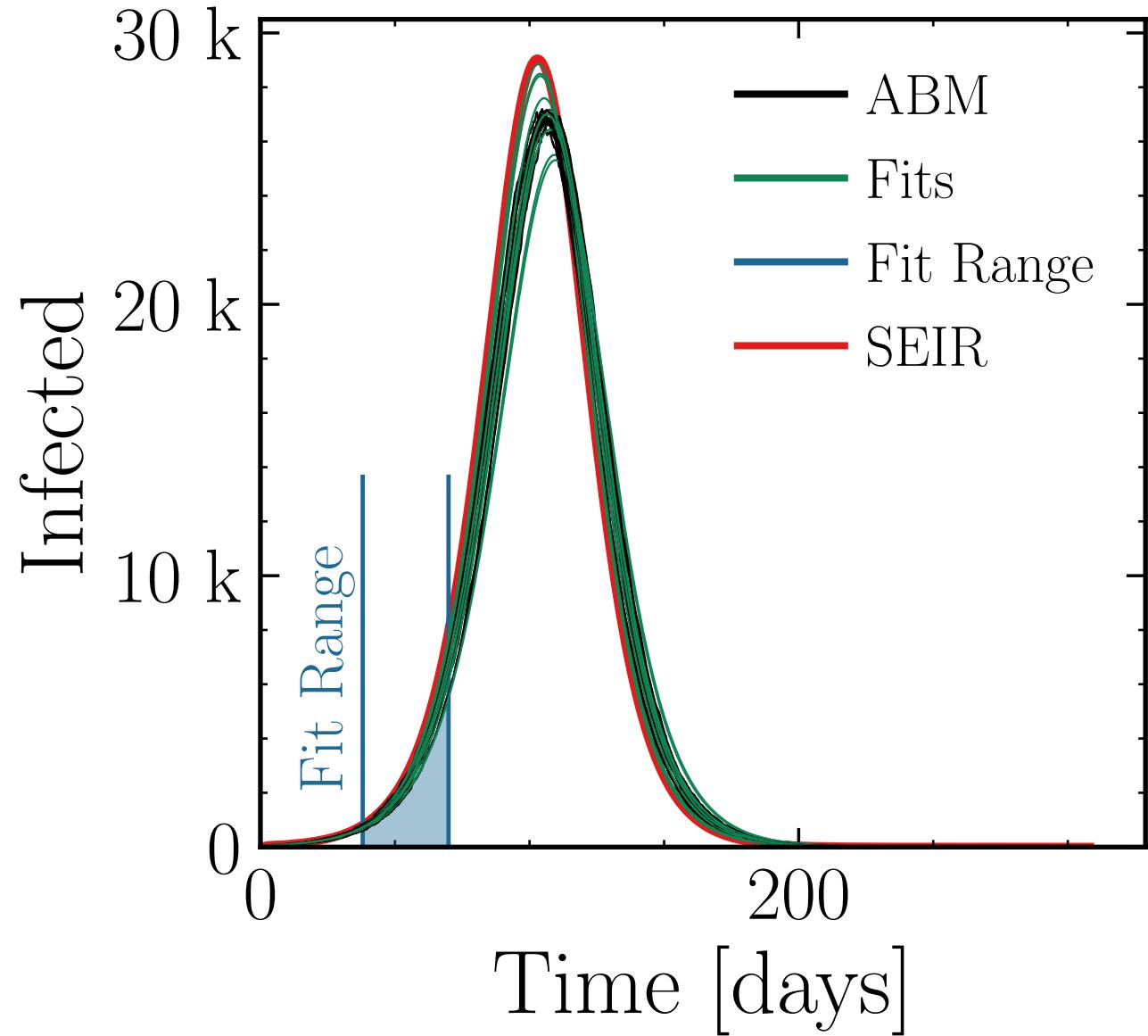
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.95$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (27.1 \pm 1.3\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 1.01 \pm 0.014$$

$$R_{\infty}^{\text{fit}} = (363 \pm 0.51\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 1.007 \pm 0.0053$$



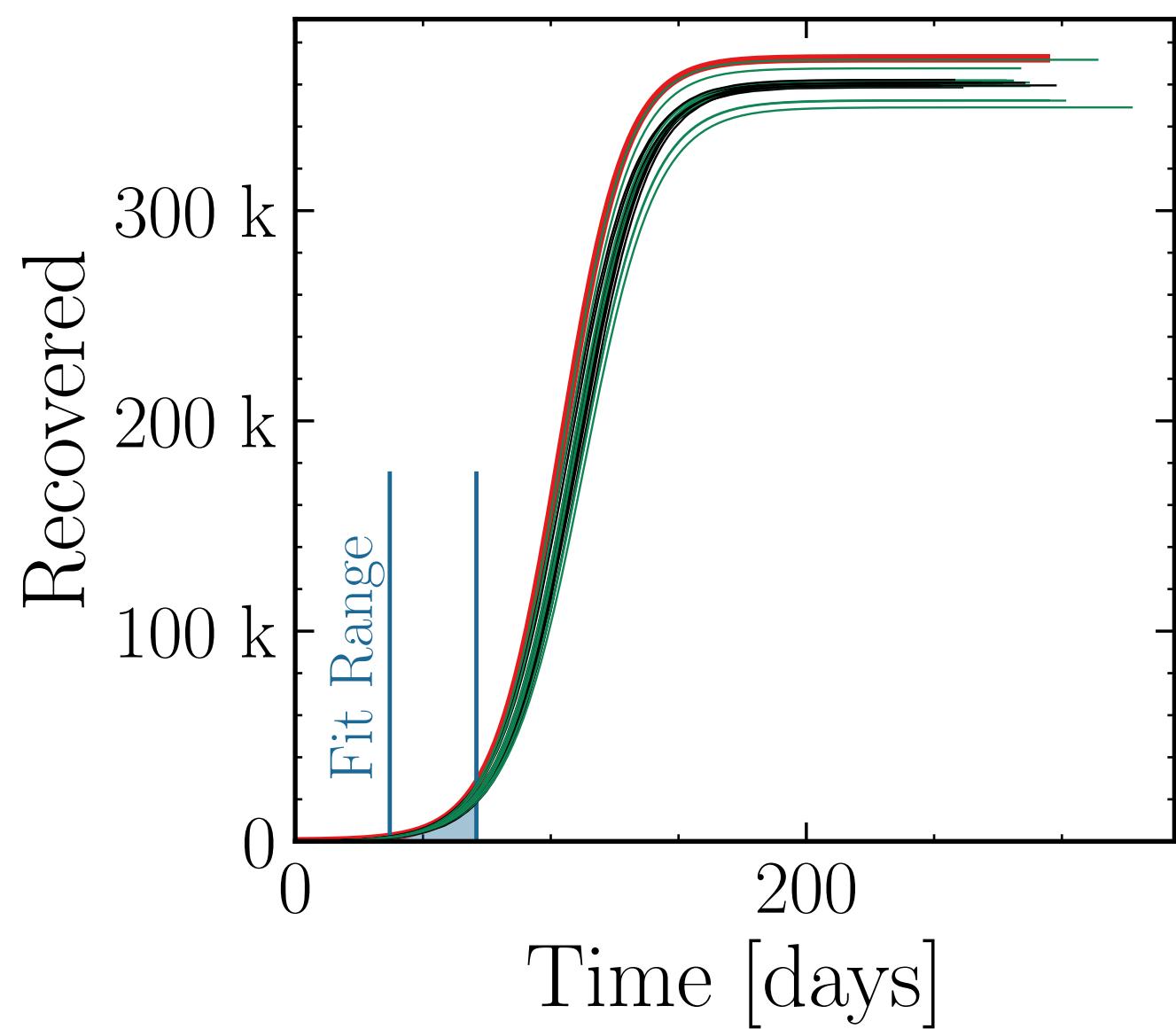
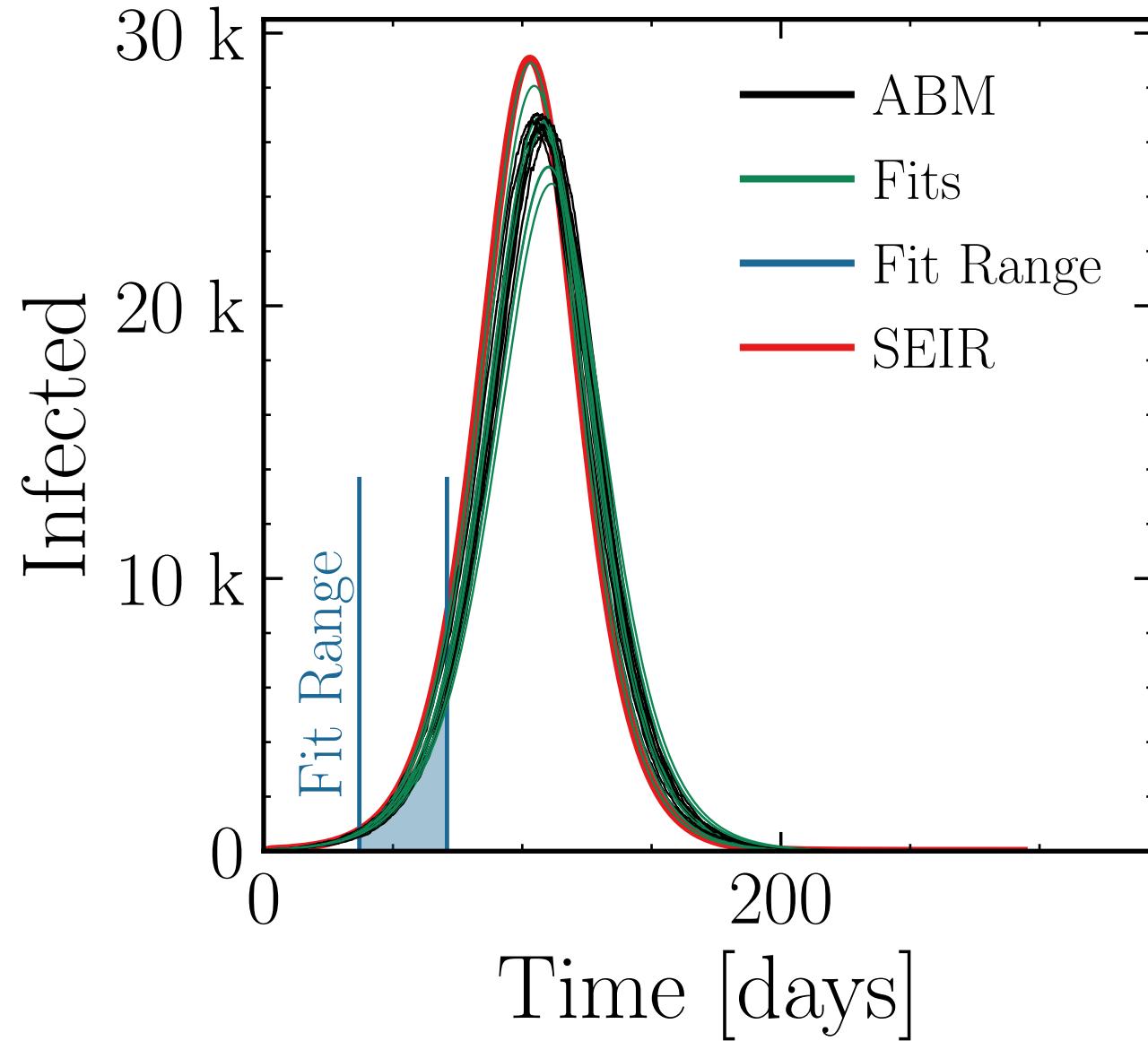
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.99$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (26.5 \pm 1.5\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (360 \pm 0.59\%) \cdot 10^3$$

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



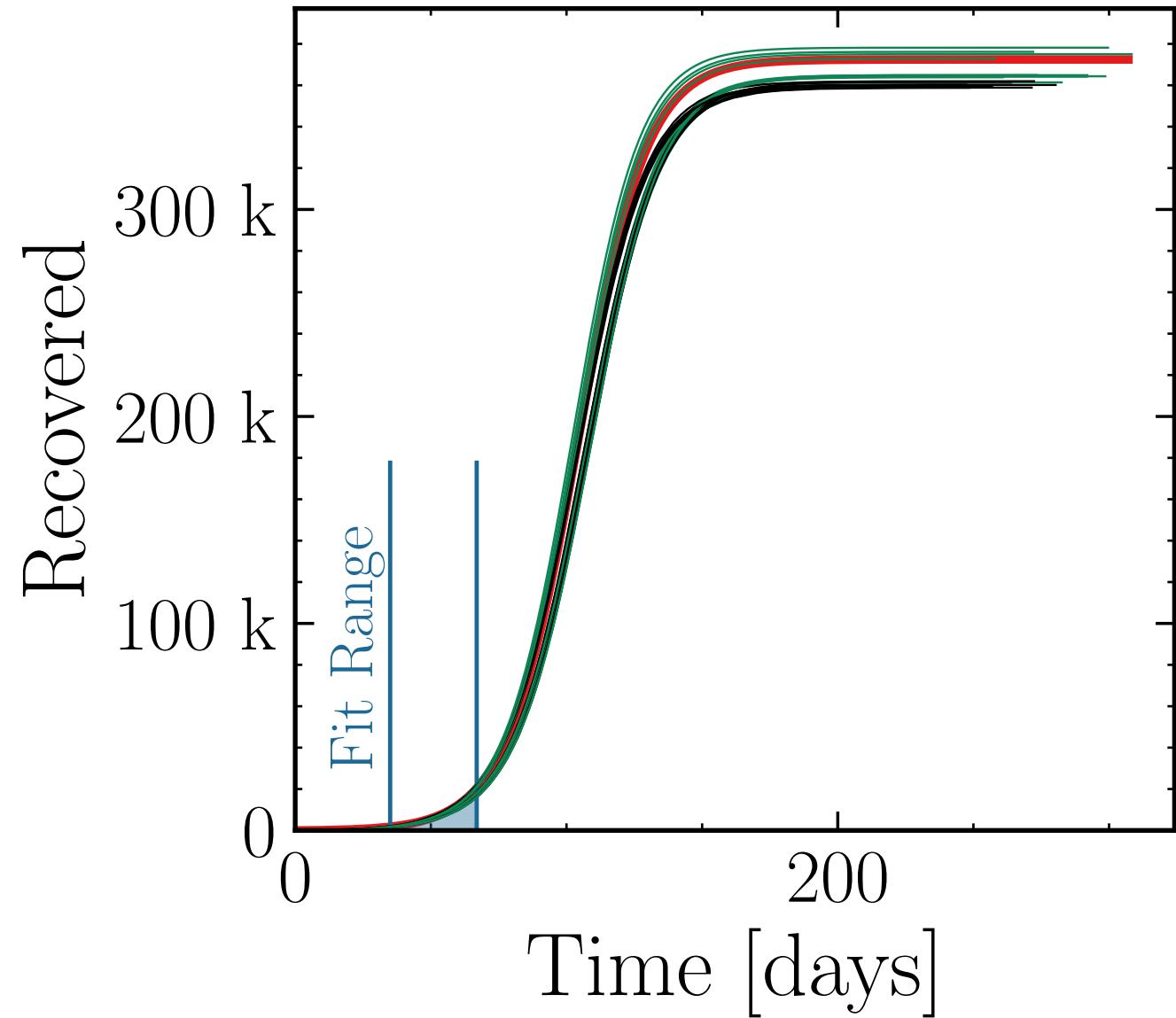
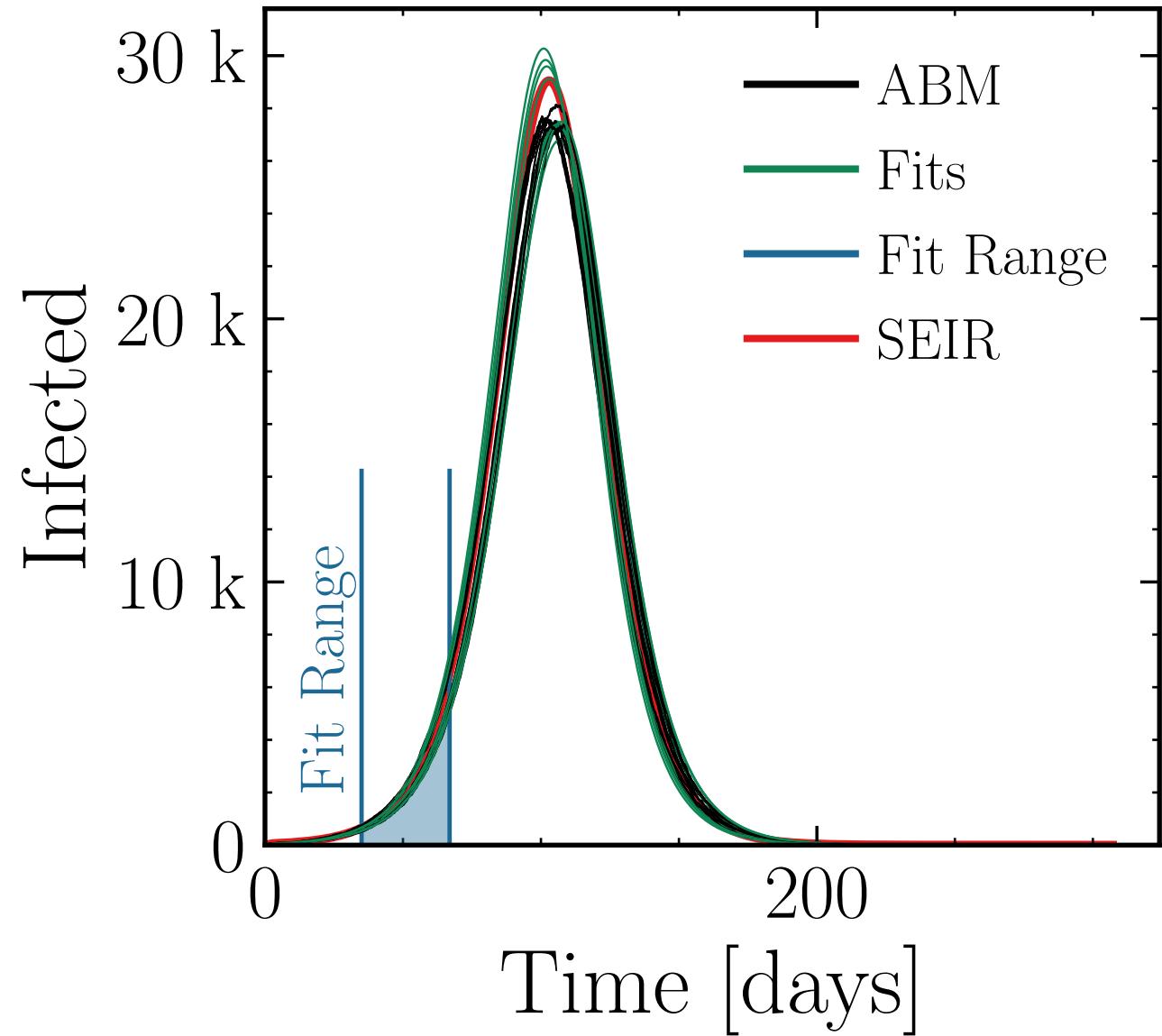
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 0.9$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (28.3 \pm 1.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (369 \pm 0.51\%) \cdot 10^3$$

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



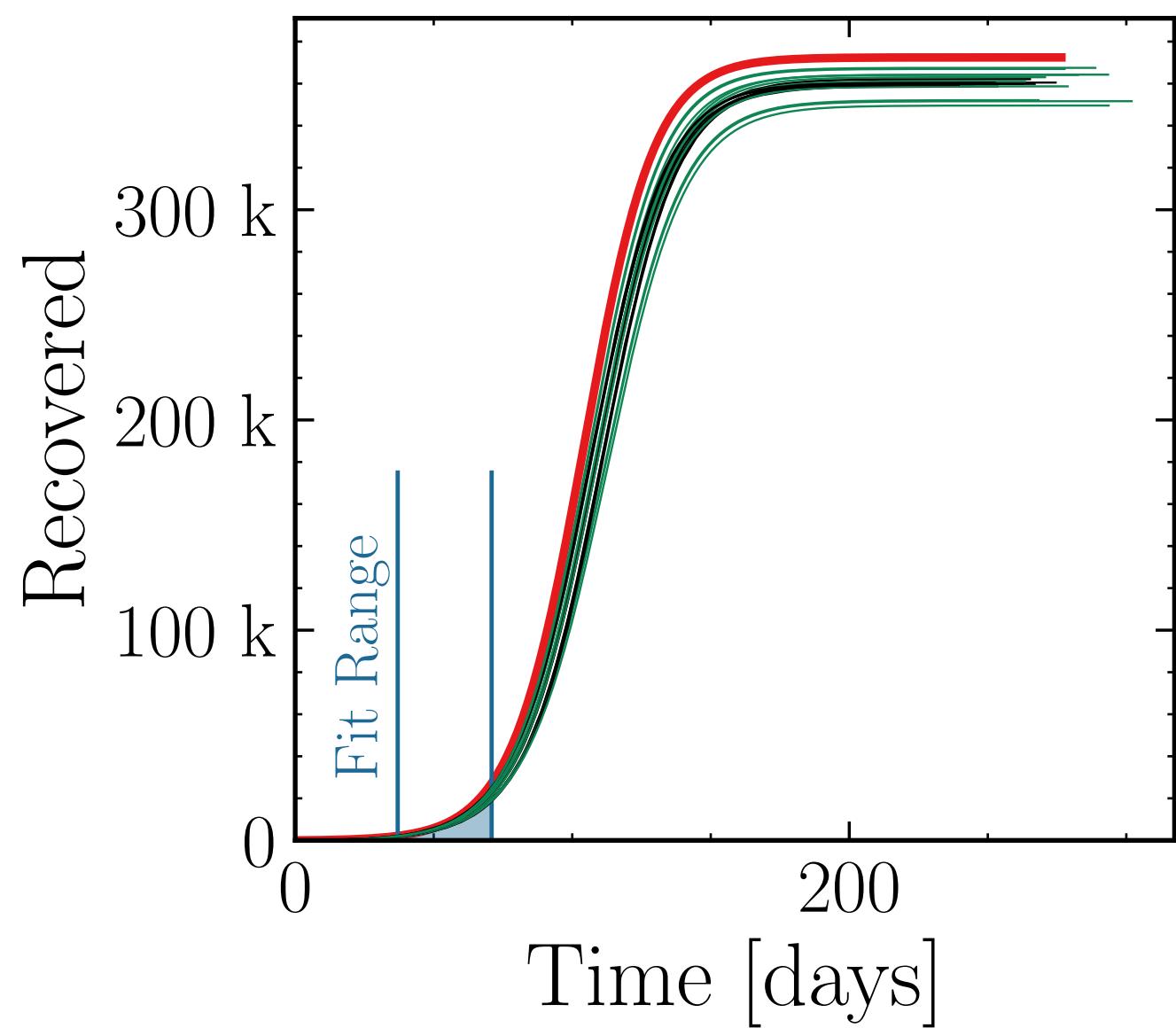
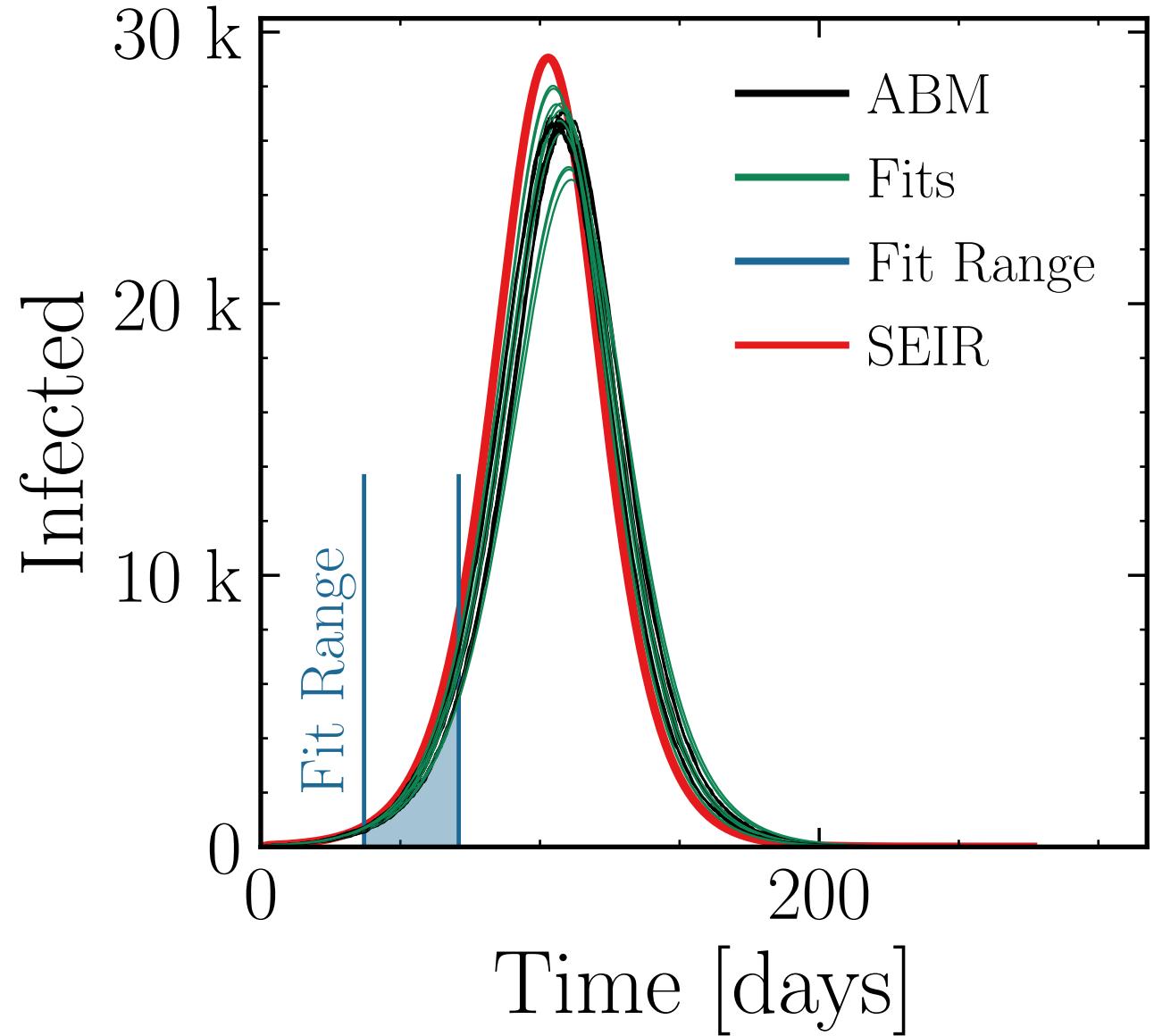
$N_{\text{tot}} = 580K$ ,  $\rho = 0.1$ ,  $\epsilon_\rho = 1.0$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{connect}}^{\text{connect}} = 0$ , v. = 1.0, #10

$$I_{\max}^{\text{fit}} = (26.5 \pm 1.4\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (360 \pm 0.55\%) \cdot 10^3$$

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



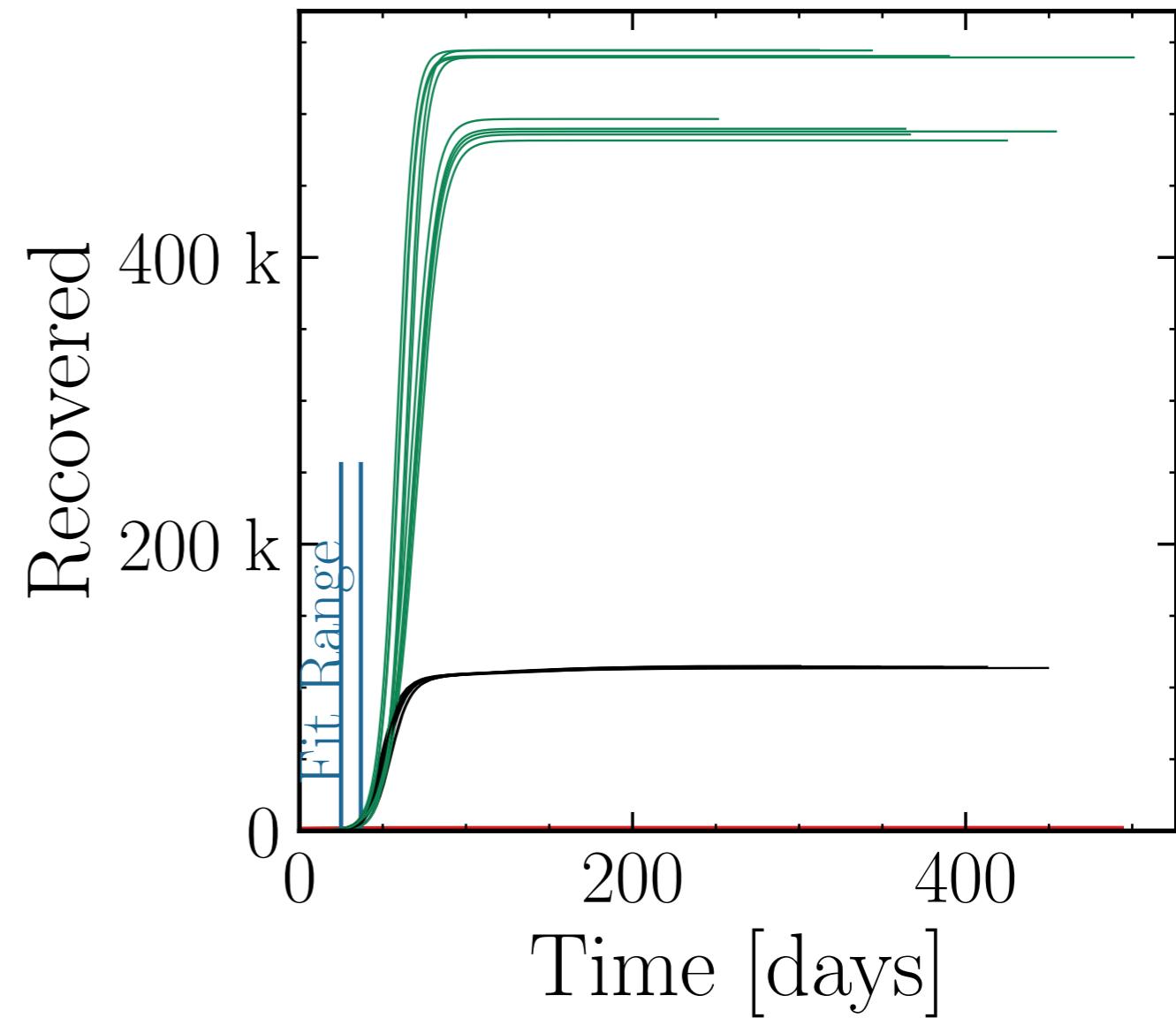
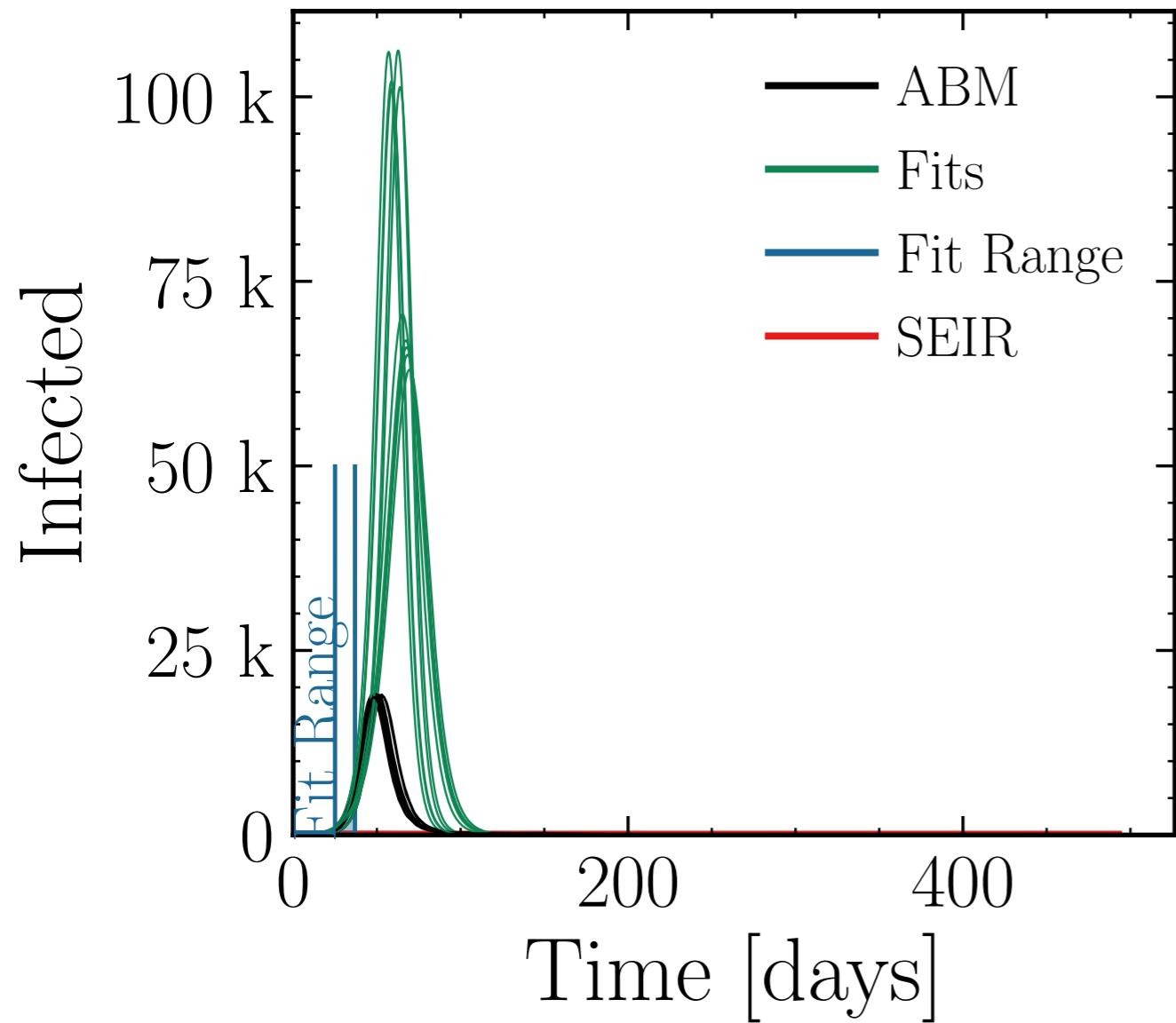
$N_{\text{tot}} = 580K$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (85 \pm 7.0\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.5 \pm 0.32$$

$$R_{\infty}^{\text{fit}} = (515 \pm 1.7\%) \cdot 10^3$$

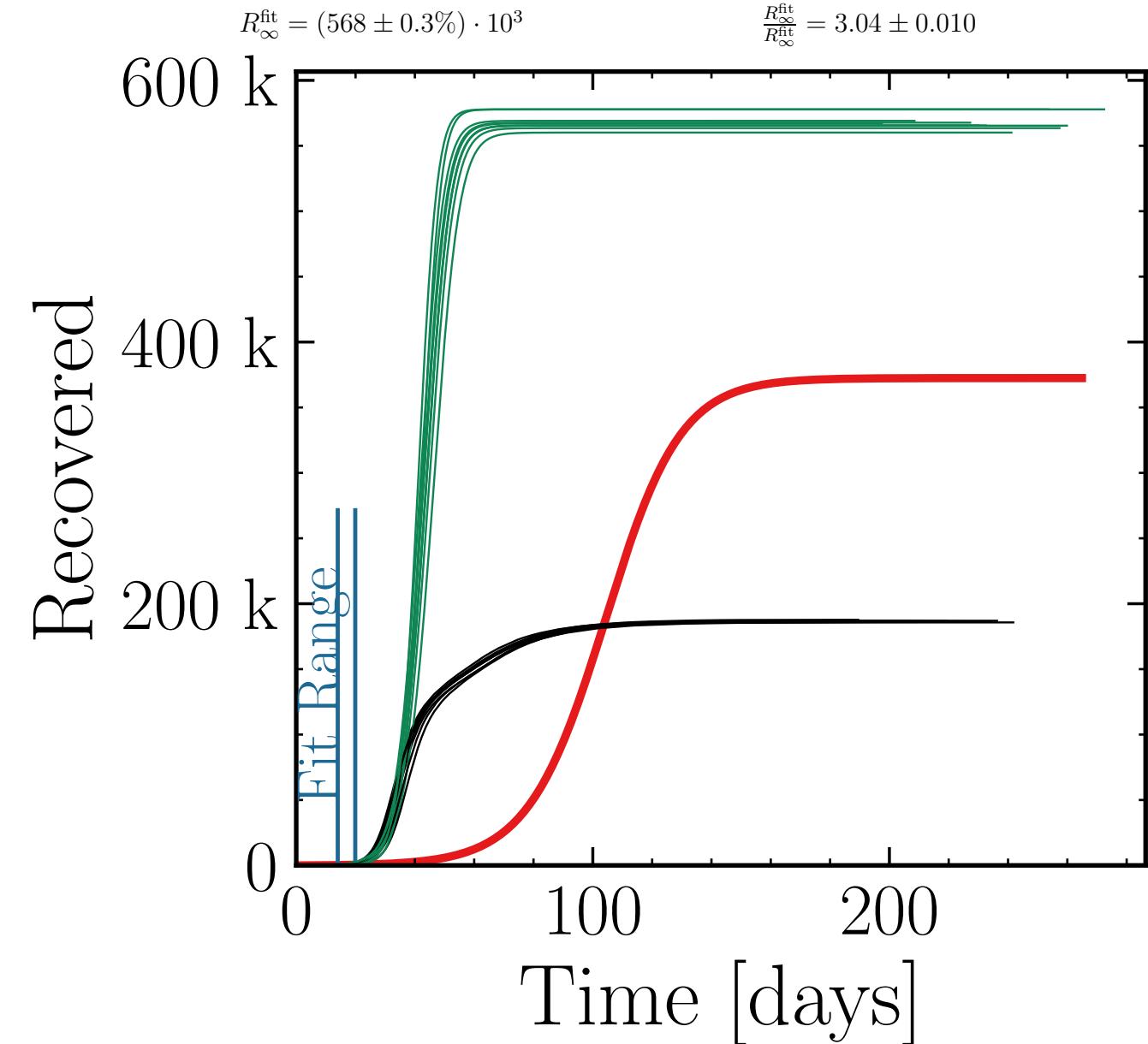
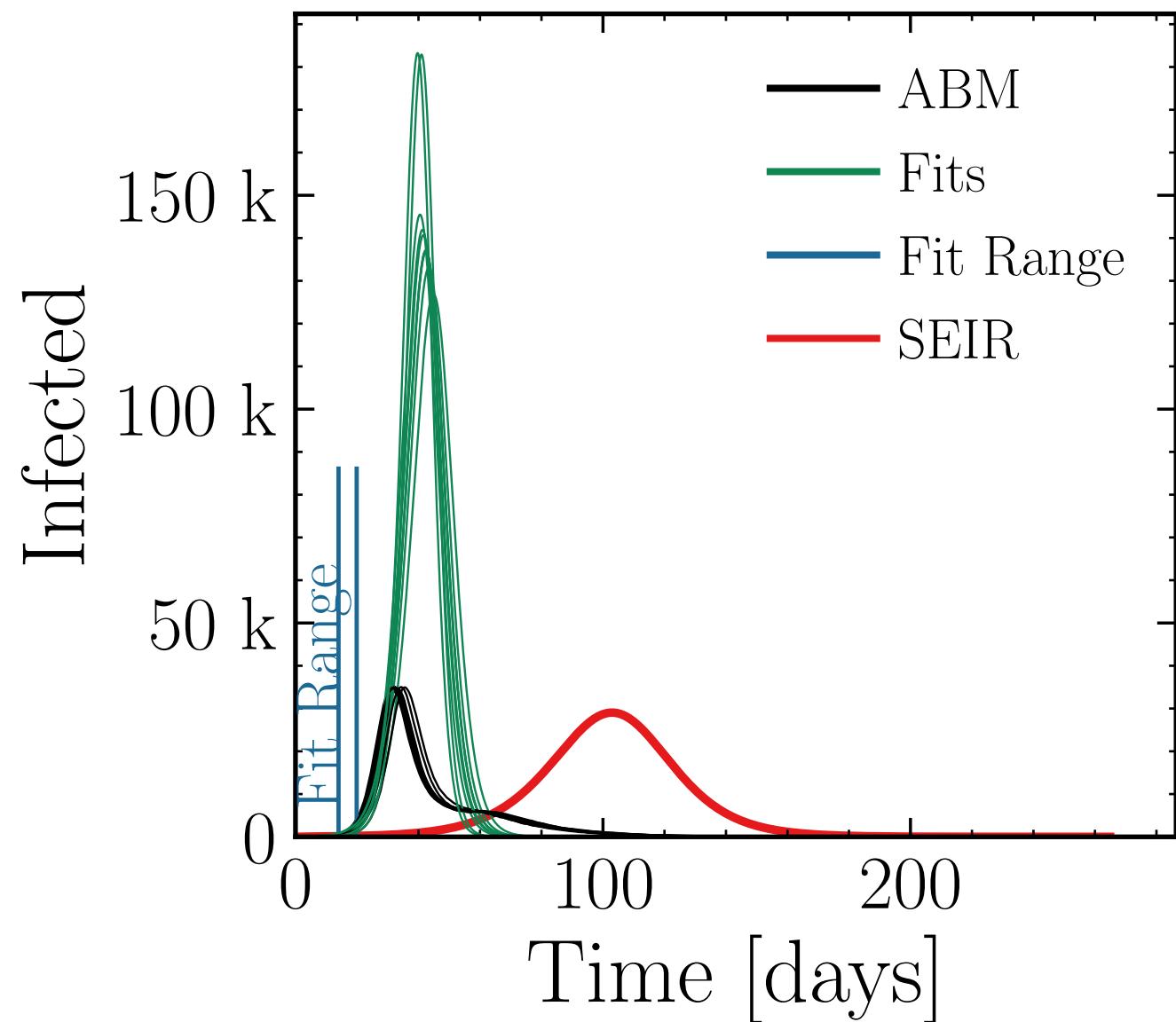
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 4.51 \pm 0.074$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.25$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (147 \pm 4.1\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.2 \pm 0.17$$



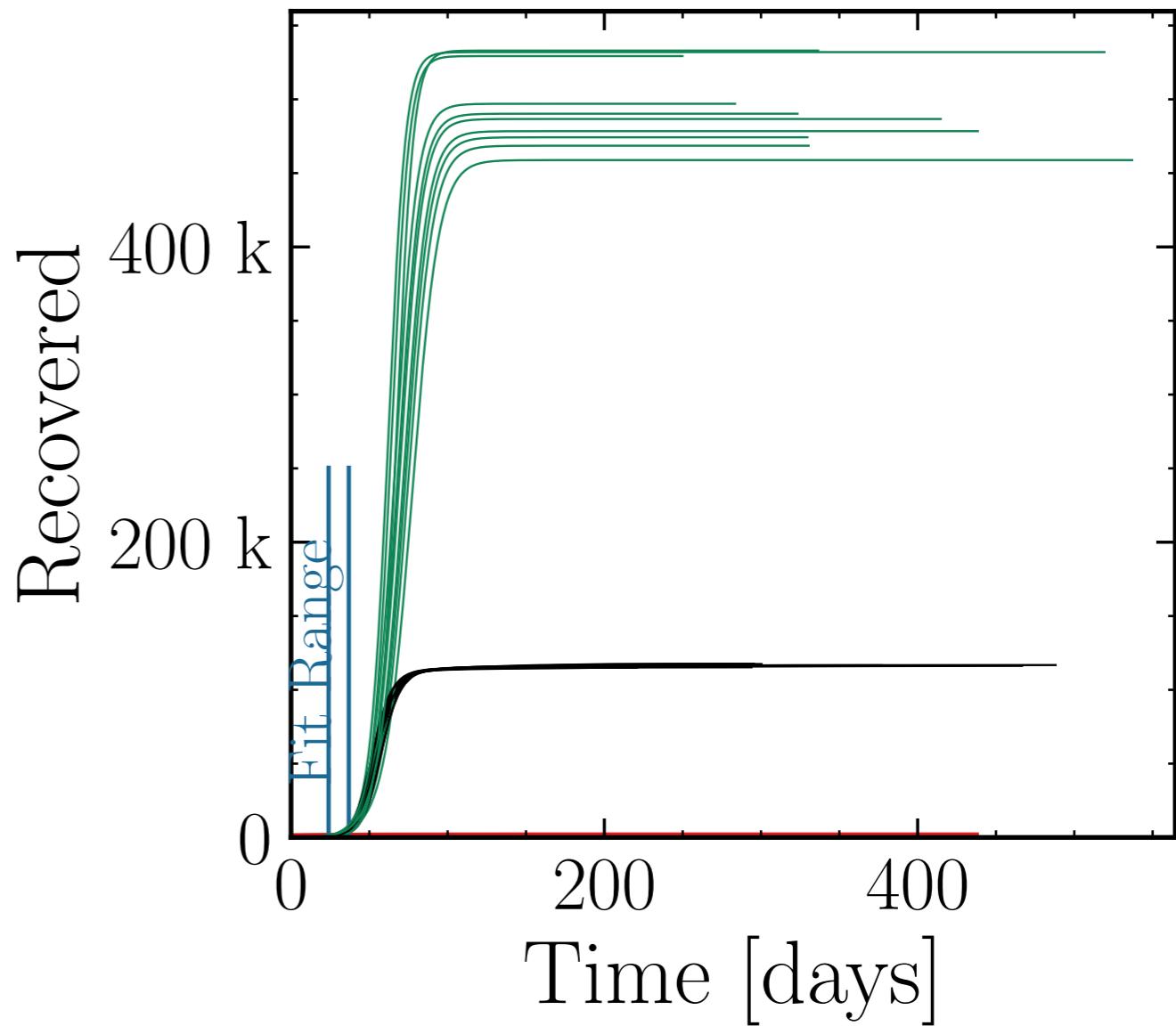
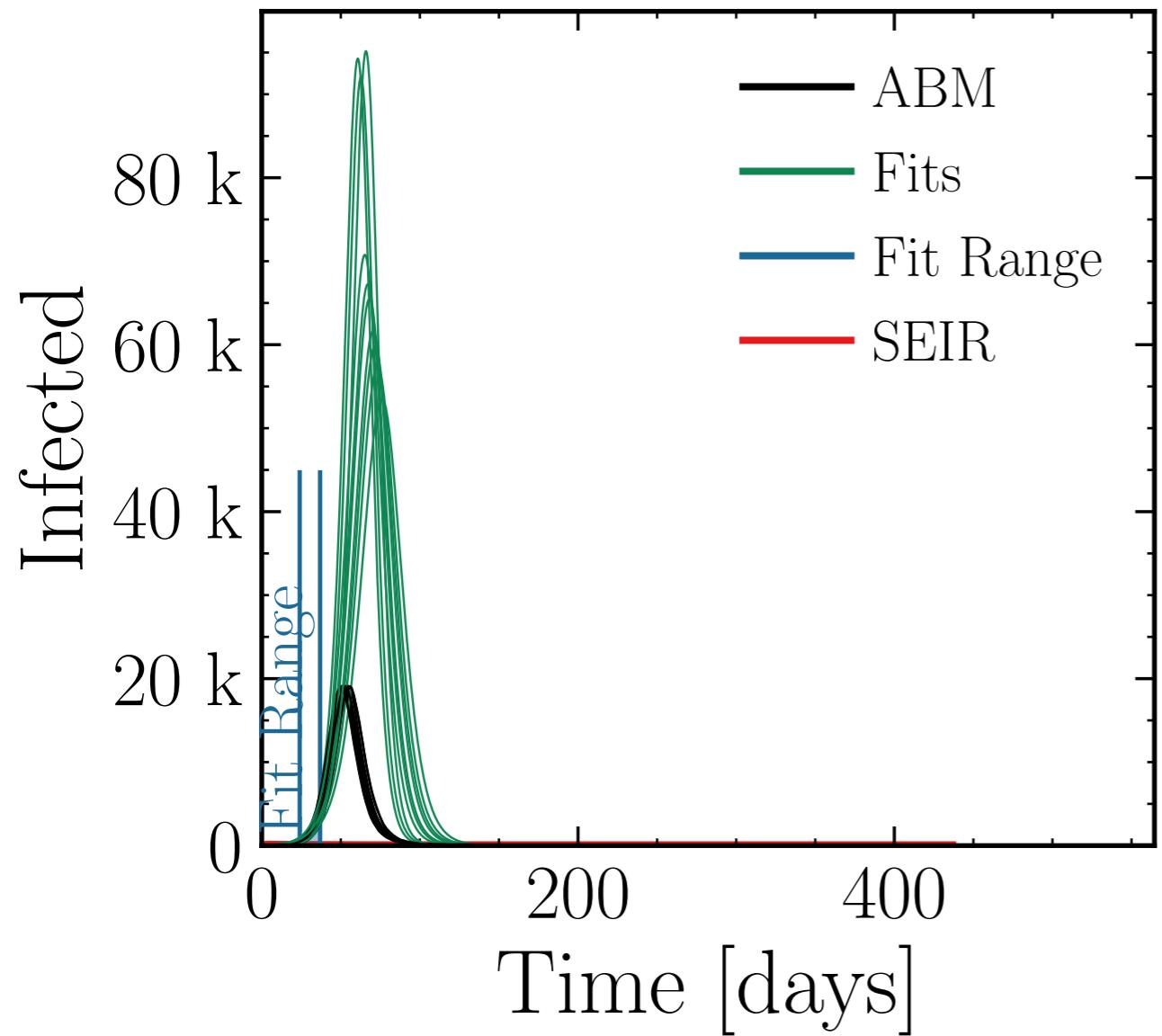
$N_{\text{tot}} = 580K$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (72 \pm 6.7\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (495 \pm 1.7\%) \cdot 10^3$$

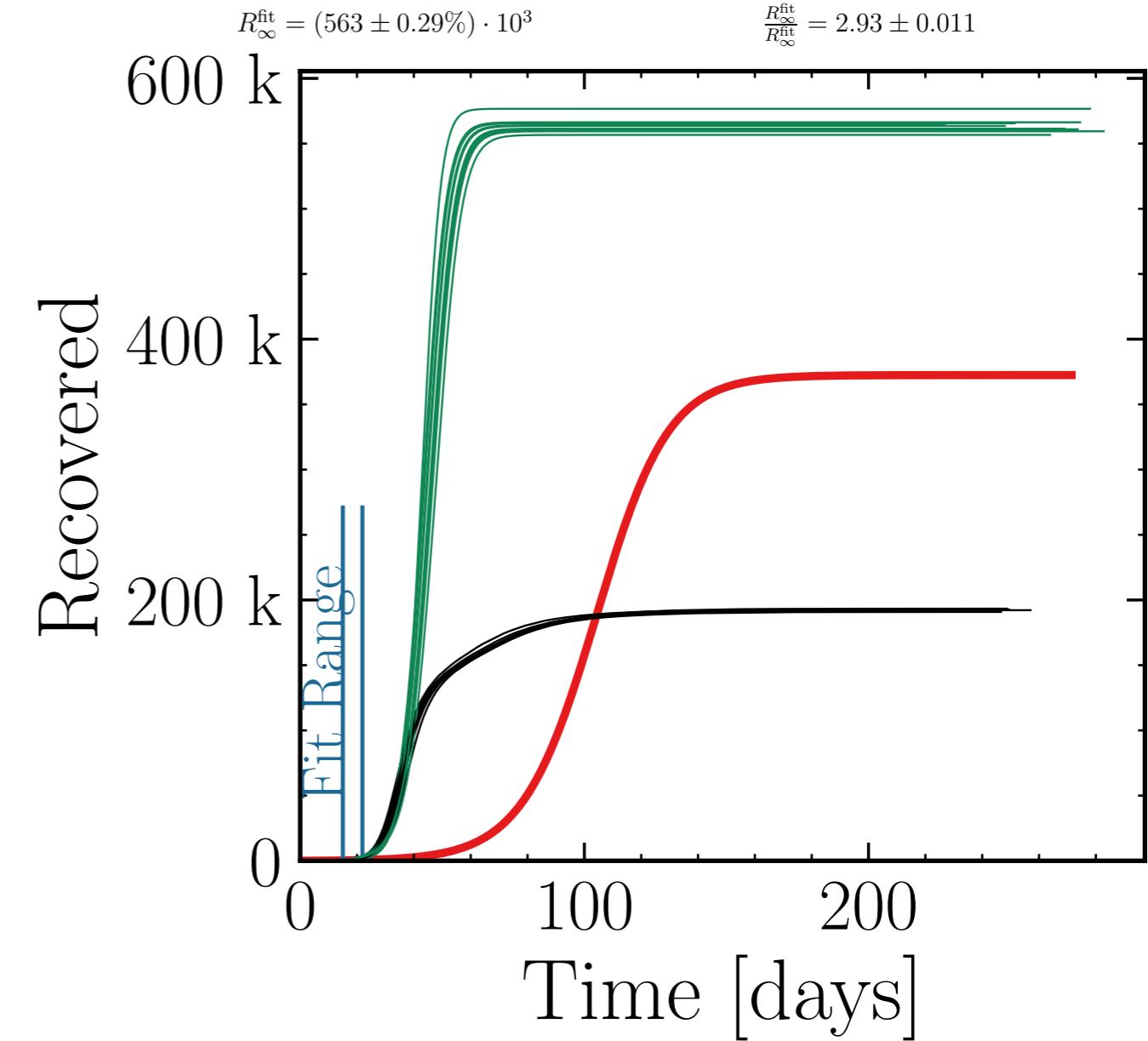
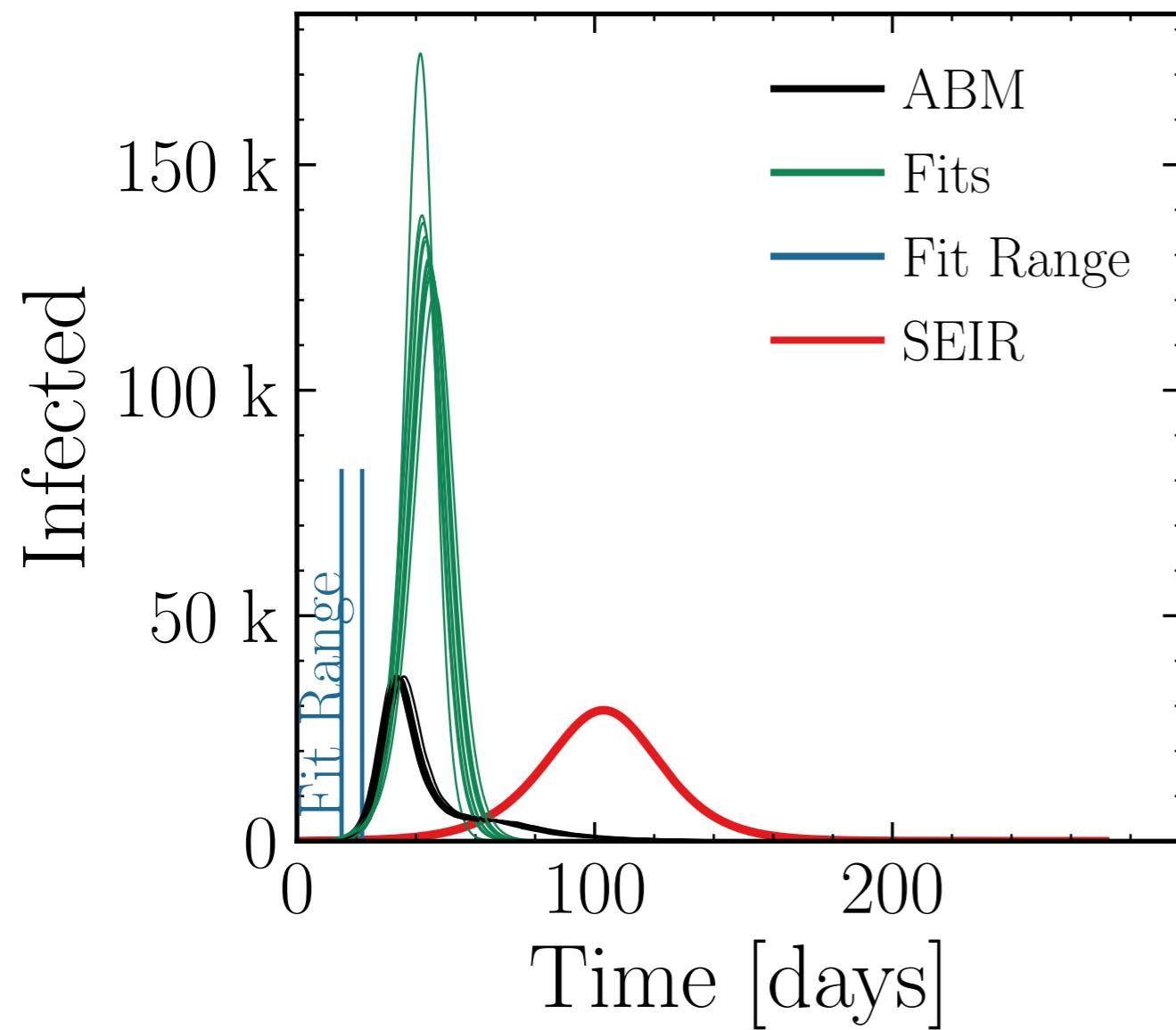
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 4.25 \pm 0.073$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.2$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (135 \pm 3.3\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 3.7 \pm 0.12$$



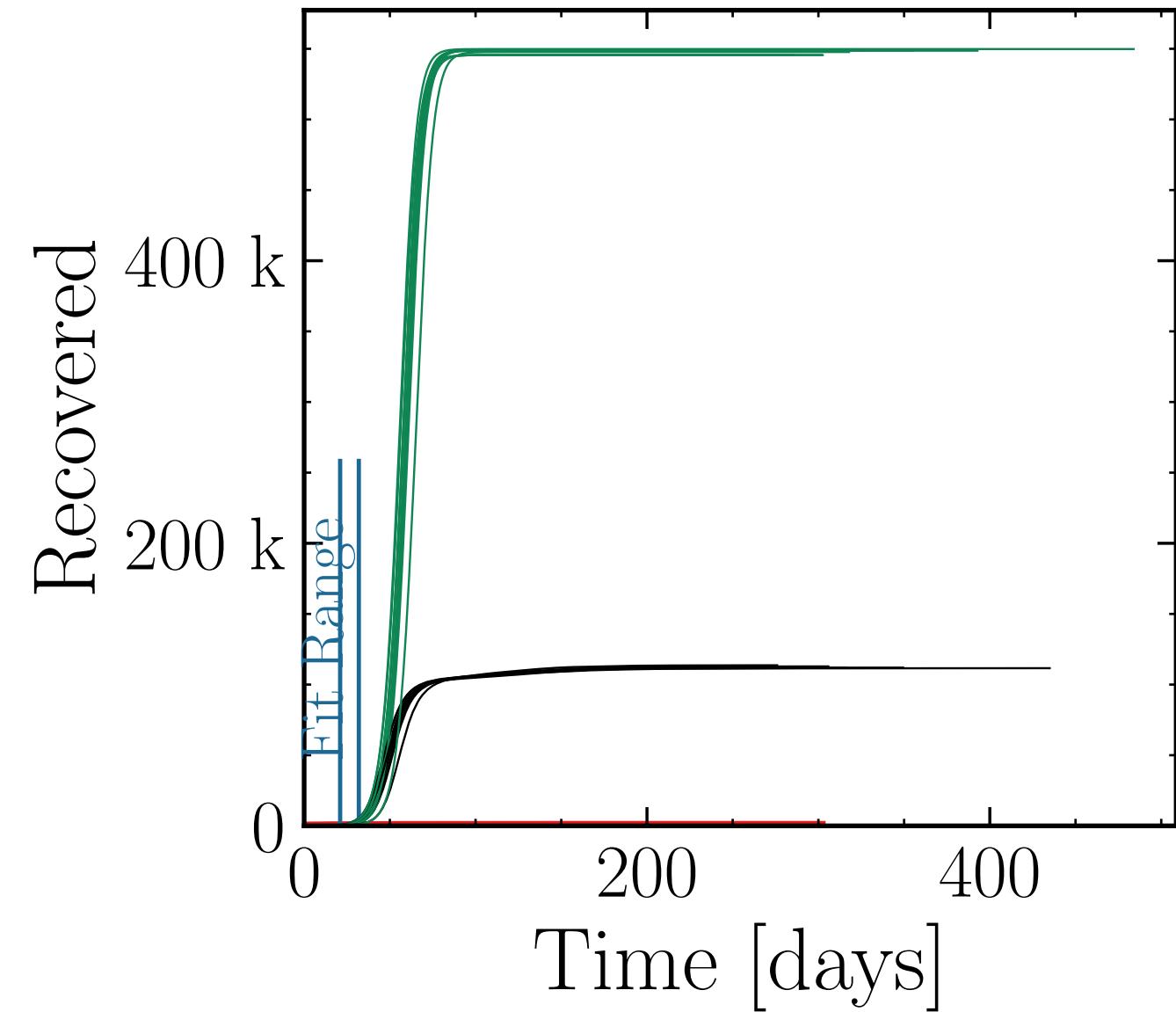
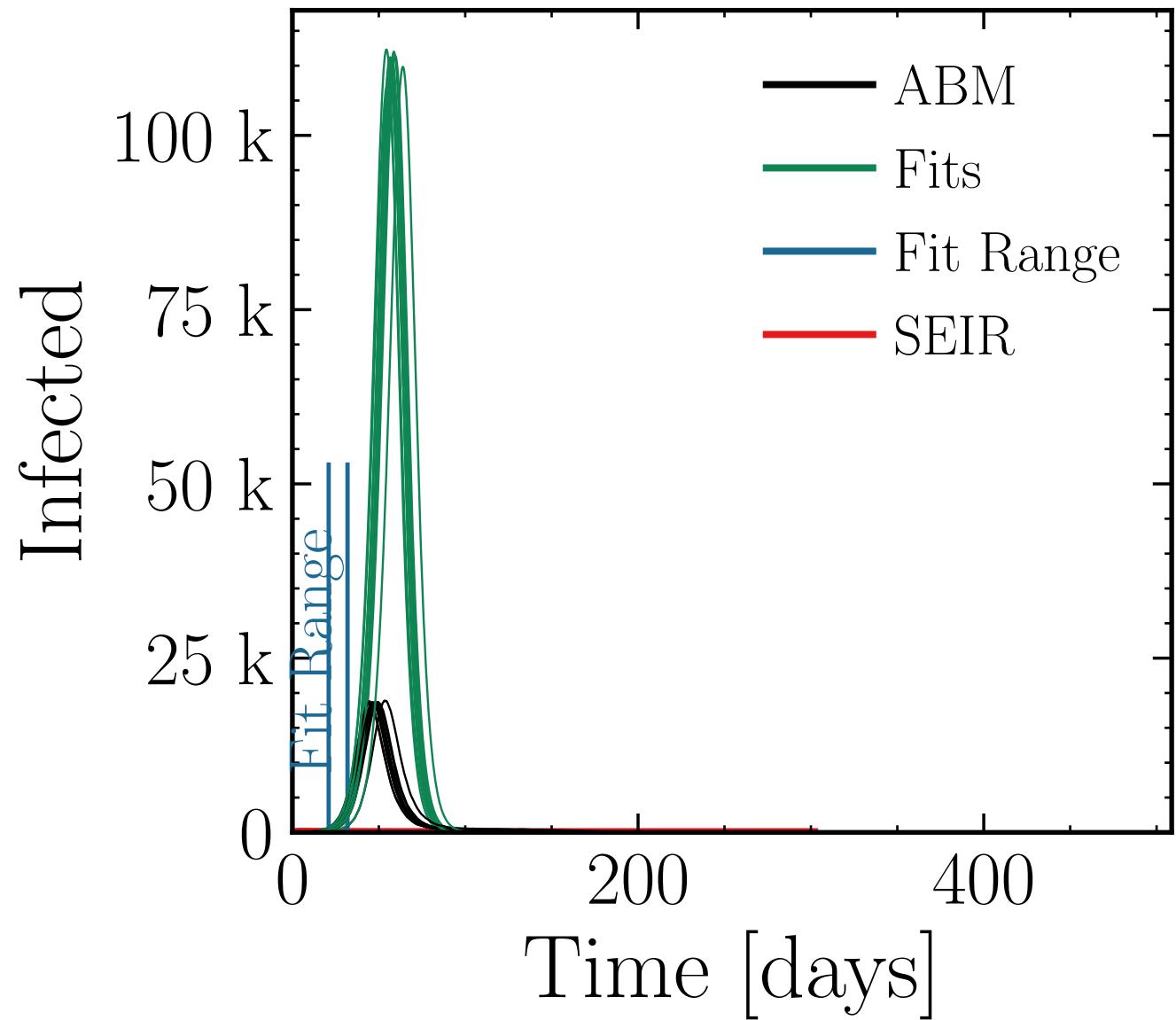
$N_{\text{tot}} = 580K$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (110.1 \pm 0.54\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\text{ABM}}^{\text{ABM}}} = 5.89 \pm 0.030$$

$$R_{\infty}^{\text{fit}} = (547.9 \pm 0.11\%) \cdot 10^3$$

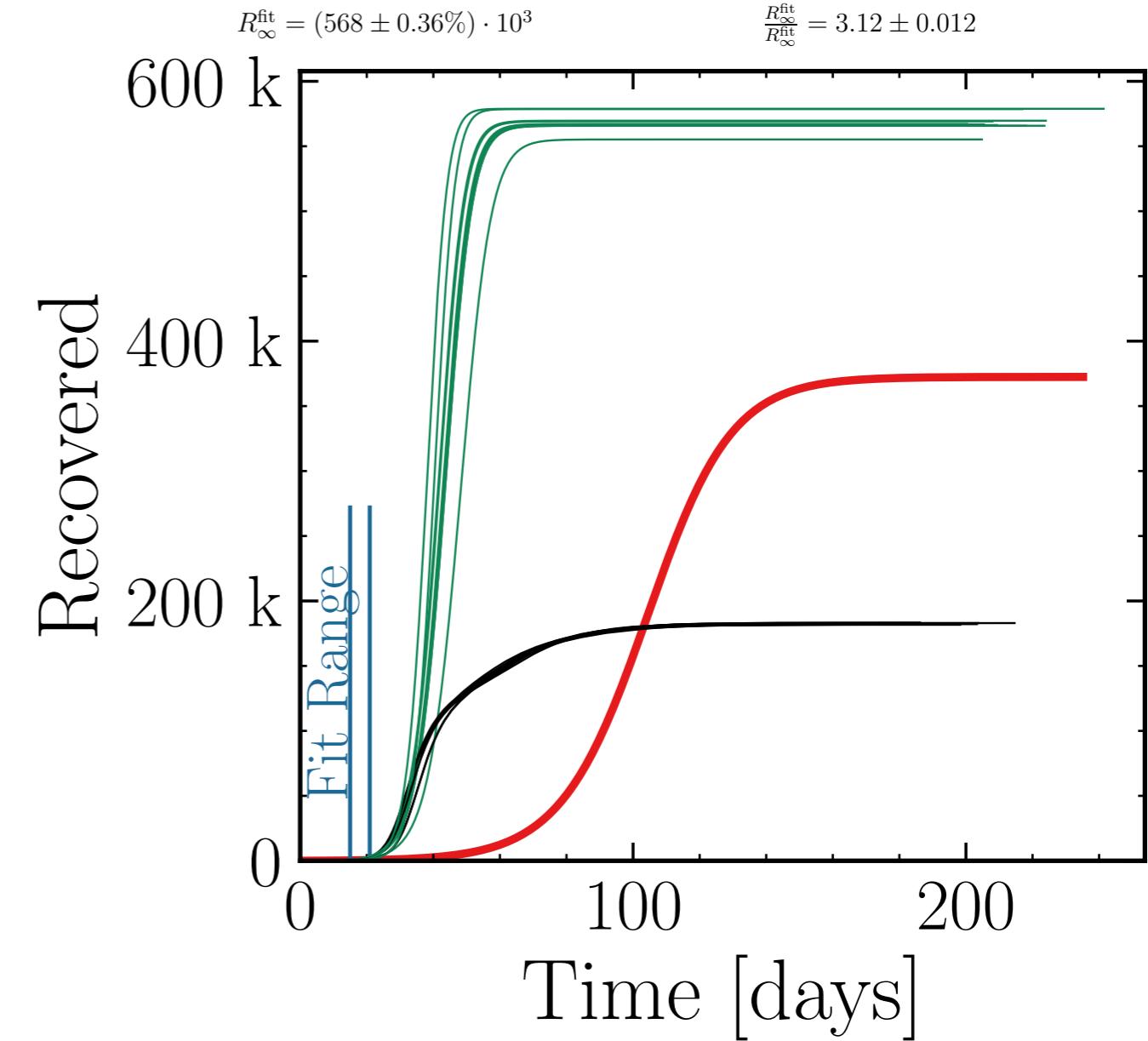
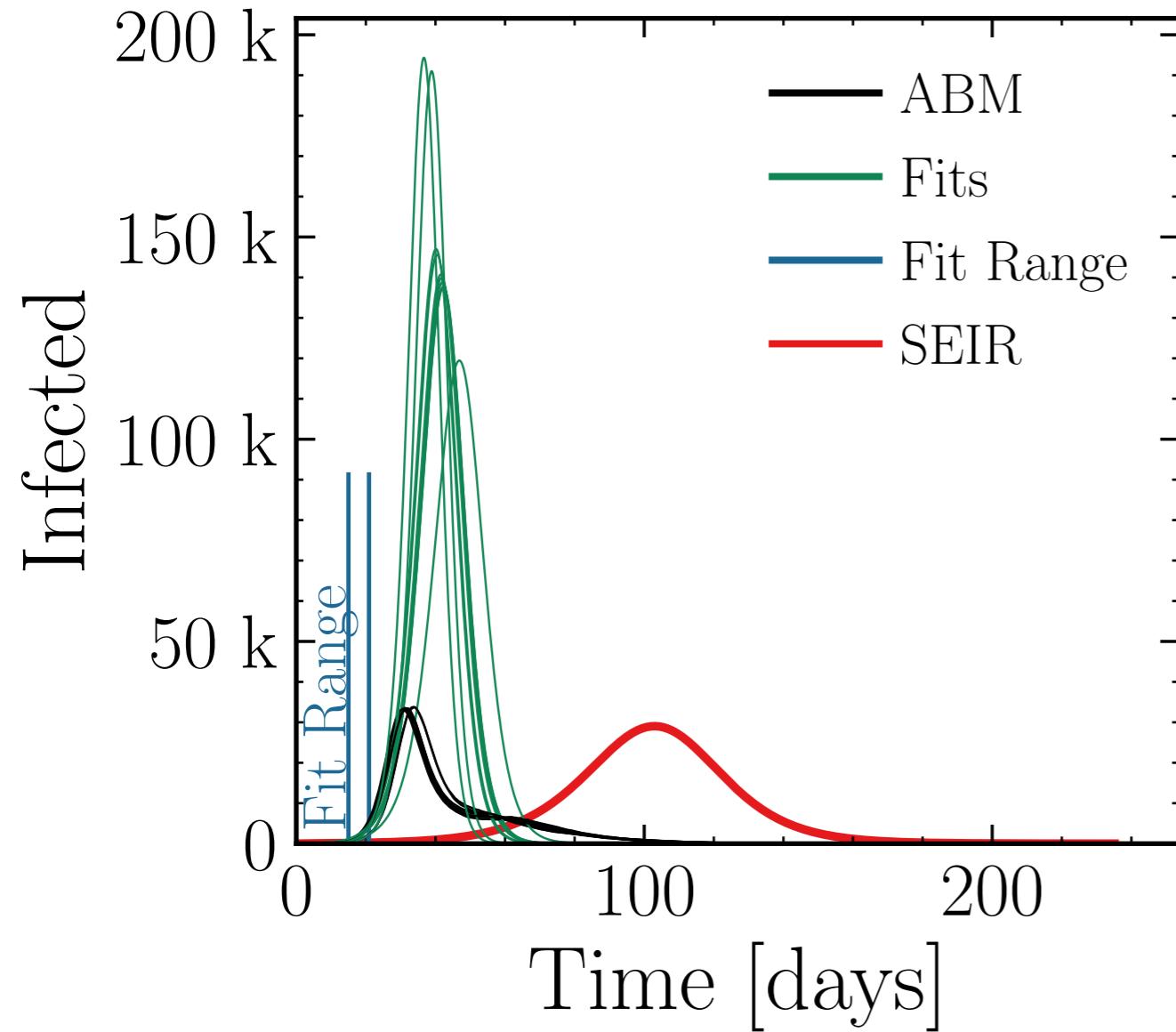
$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 4.879 \pm 0.0094$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.3$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (149 \pm 4.8\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 4.5 \pm 0.21$$



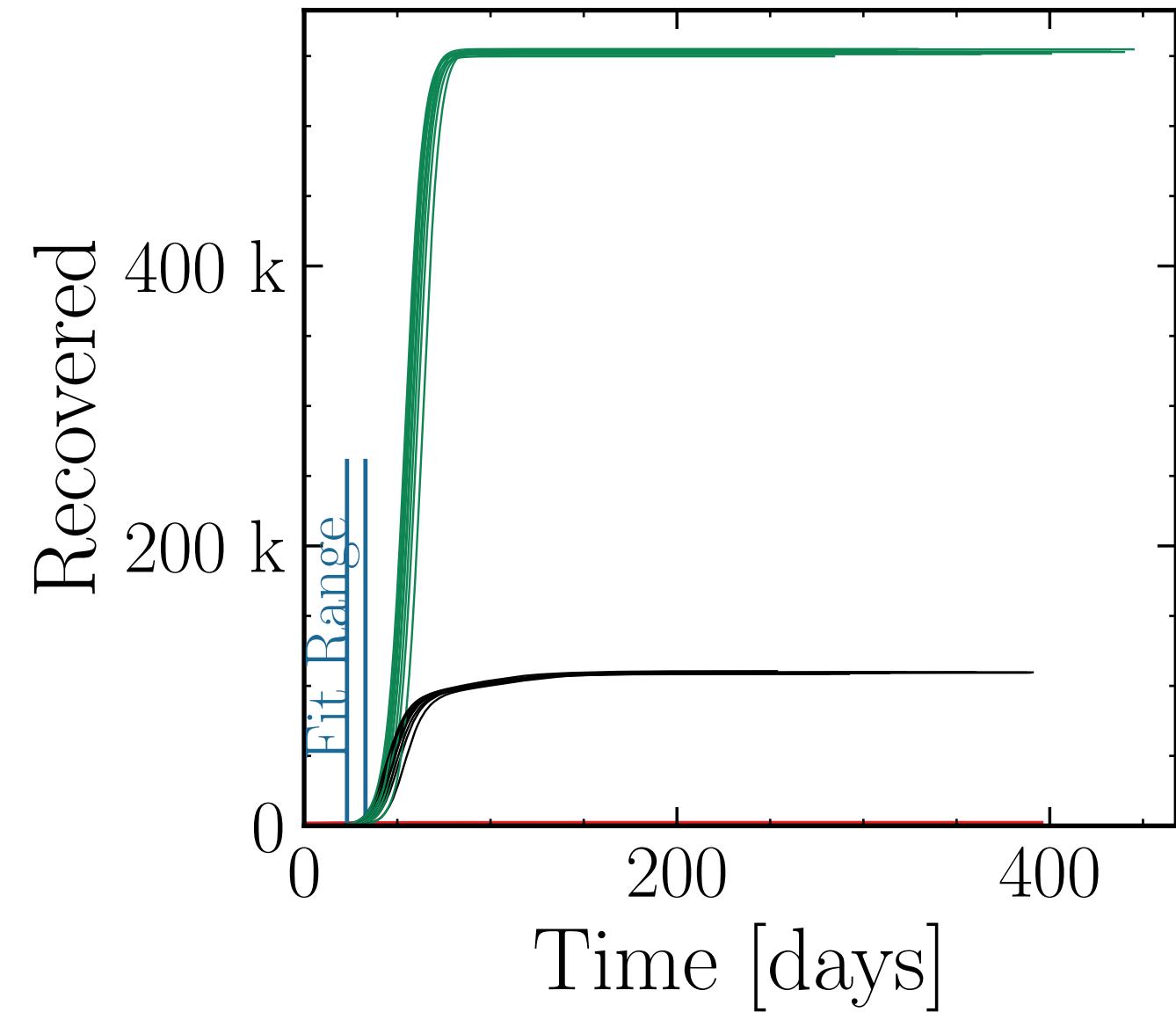
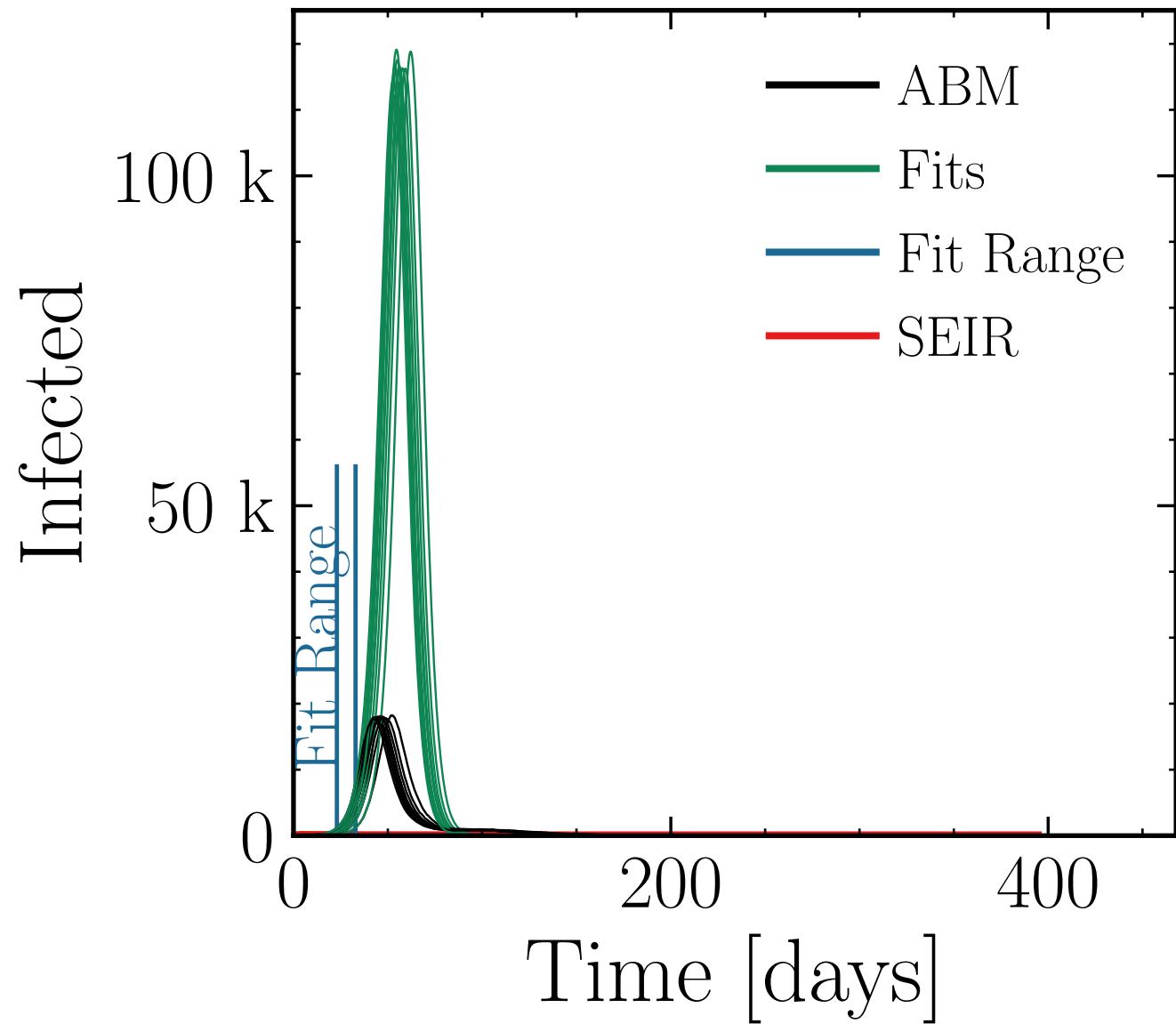
$N_{\text{tot}} = 580K$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (116.3 \pm 0.54\%) \cdot 10^3$$

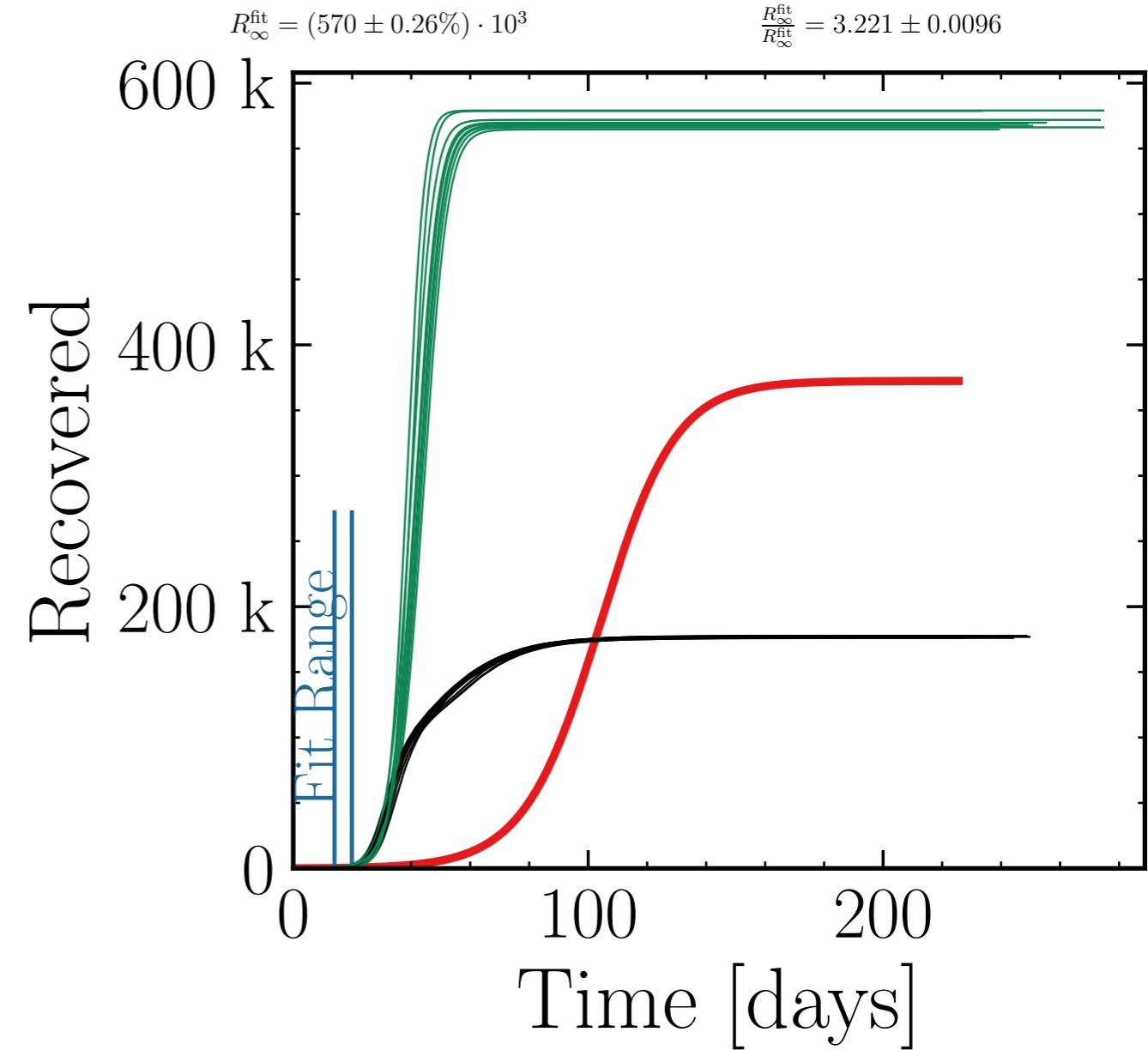
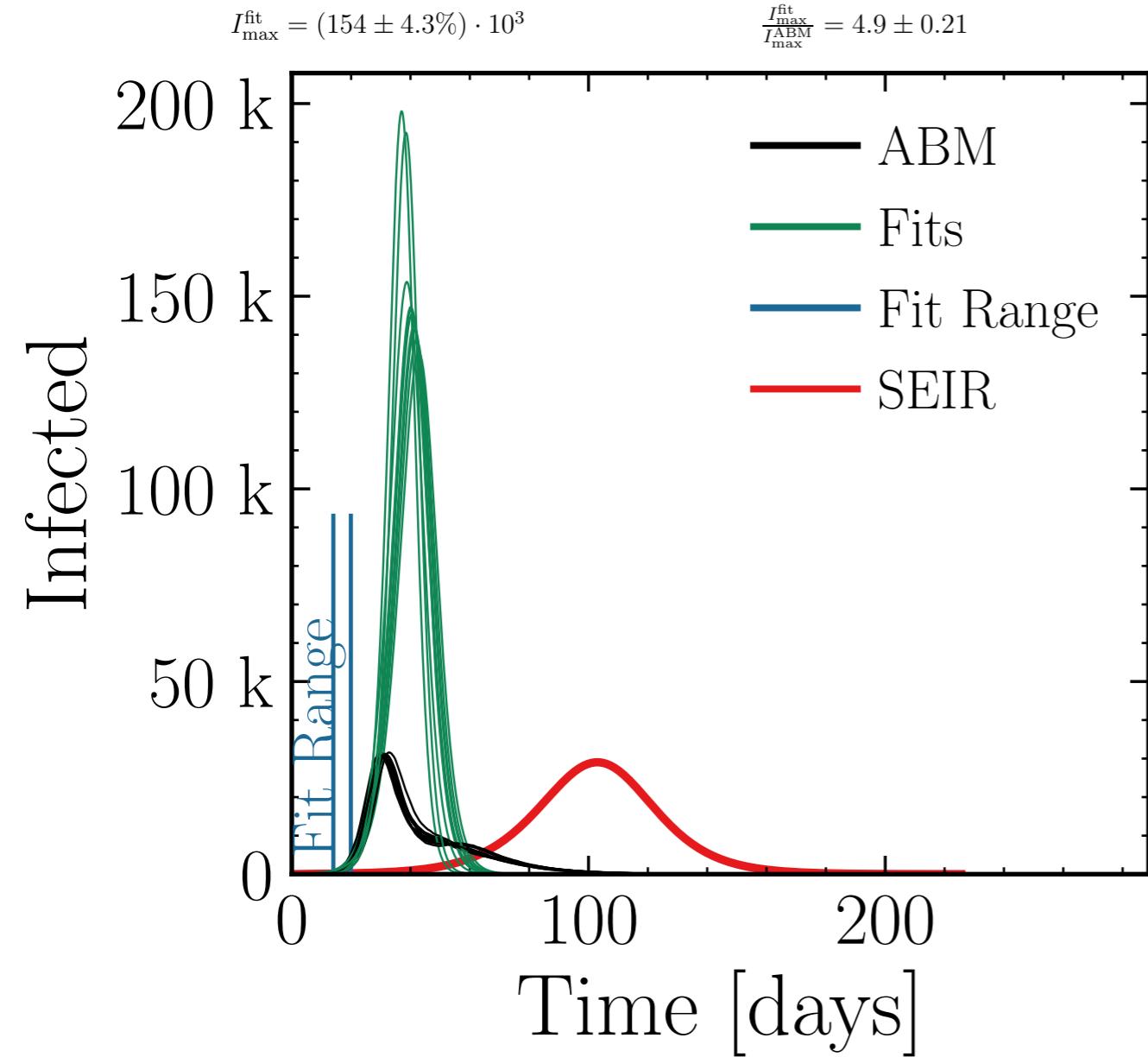
$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 6.46 \pm 0.030$$

$$R_{\infty}^{\text{fit}} = (552.9 \pm 0.1\%) \cdot 10^3$$

$$\frac{R_{\infty}^{\text{fit}}}{R_{\infty}^{\text{ABM}}} = 5.05 \pm 0.012$$



$N_{\text{tot}} = 580K$ ,  $\rho = 0.4$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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



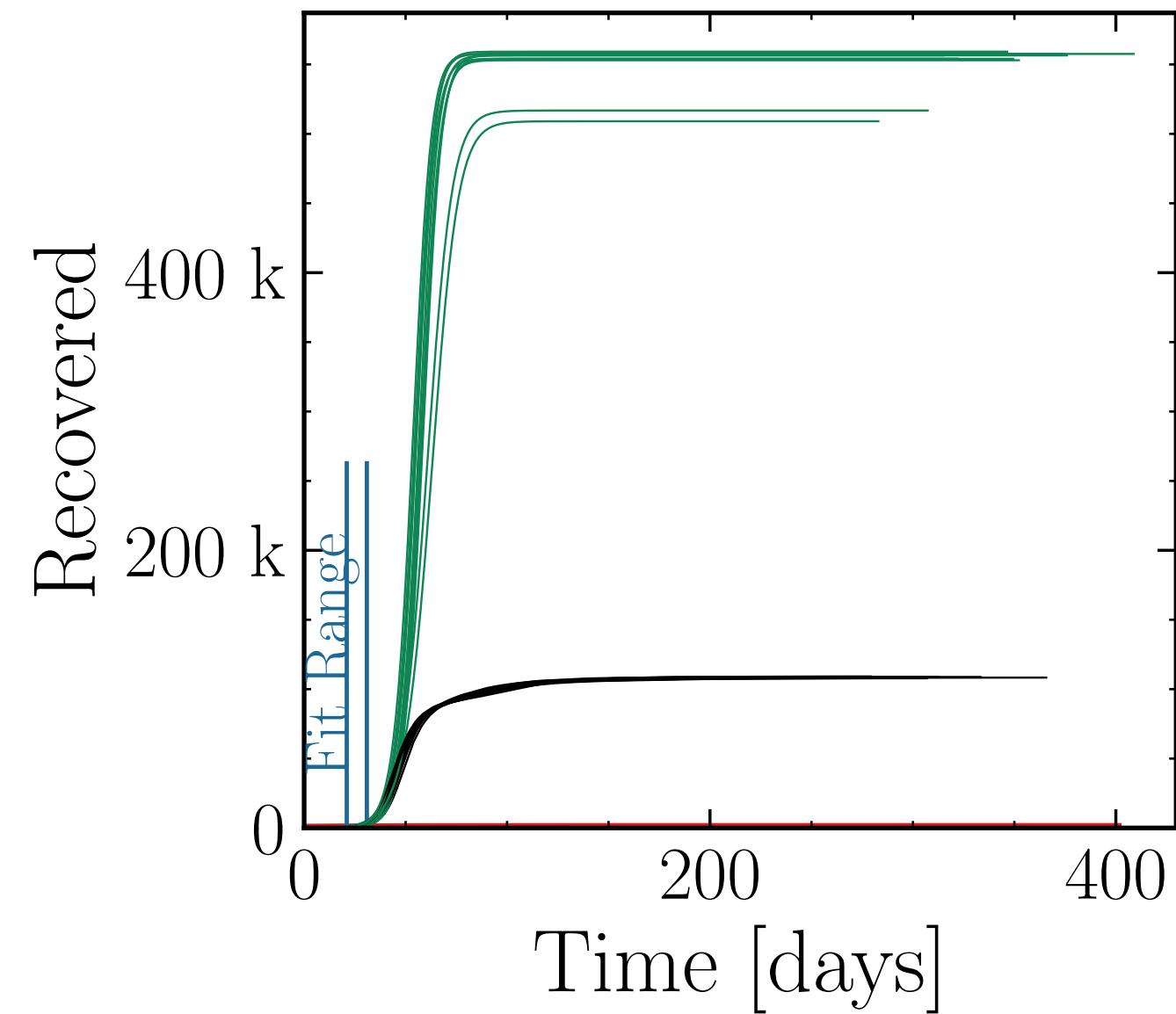
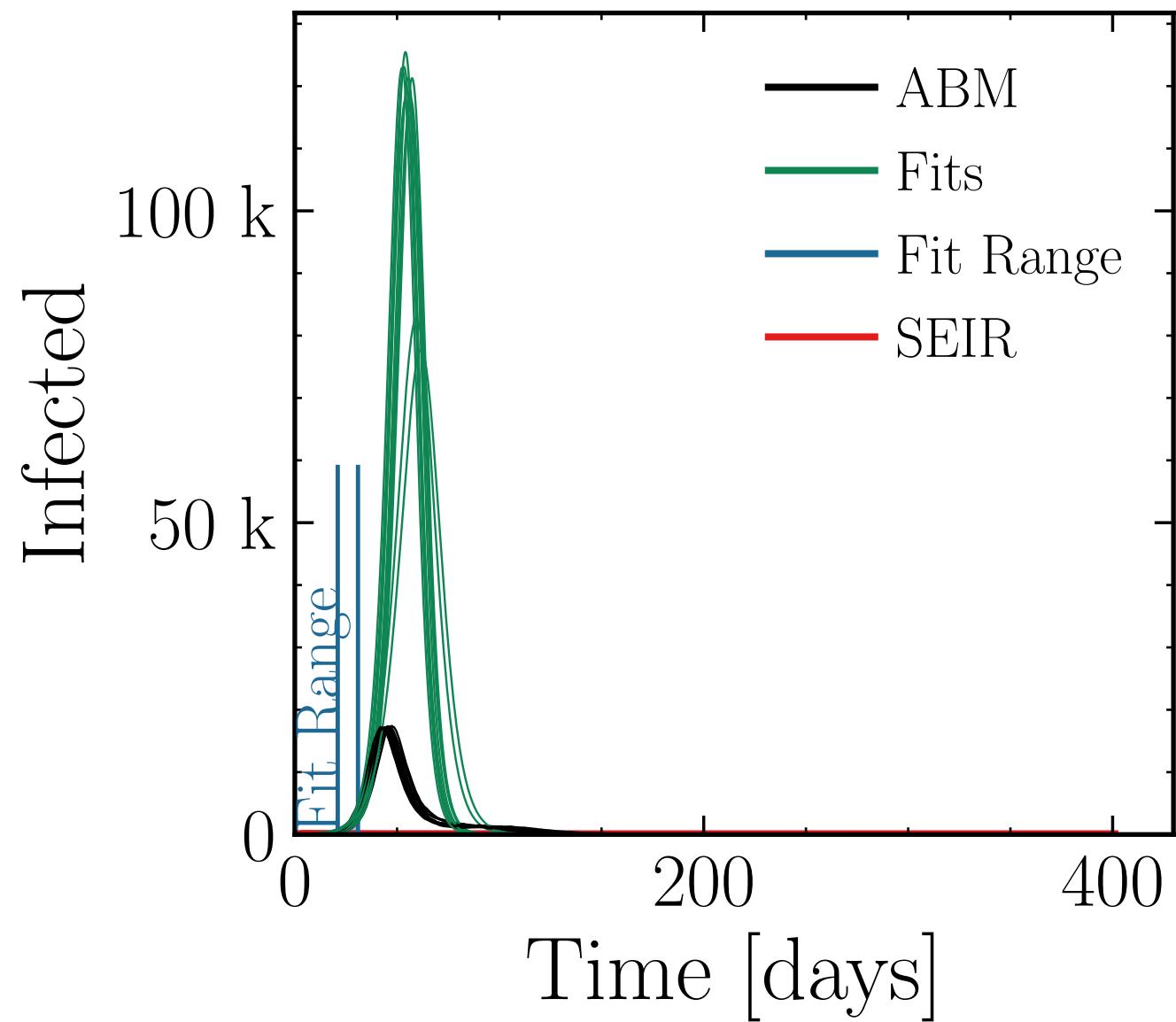
$N_{\text{tot}} = 580K$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.005$ ,  $\sigma_\beta = 0.0$ , algo = 2,  $N_{\text{init}} = 100$   
 $\lambda_E = 1.0$ ,  $\lambda_I = 1.0$ , rand.inf. = True,  $N_{\text{retries}}^{\text{connect}} = 0$ , v. = 1.0,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

$$I_{\max}^{\text{fit}} = (113 \pm 4.6\%) \cdot 10^3$$

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

$$R_{\infty}^{\text{fit}} = (547 \pm 1.0\%) \cdot 10^3$$

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



$N_{\text{tot}} = 580K$ ,  $\rho = 0.5$ ,  $\epsilon_\rho = 0.04$ ,  $\mu = 40.0$ ,  $\sigma_\mu = 0.0$ ,  $\beta = 0.01$ ,  $\sigma_\beta = 0.0$ , 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

$$I_{\max}^{\text{fit}} = (159 \pm 3.7\%) \cdot 10^3$$

$$\frac{I_{\max}^{\text{fit}}}{I_{\max}^{\text{ABM}}} = 5.5 \pm 0.20$$

