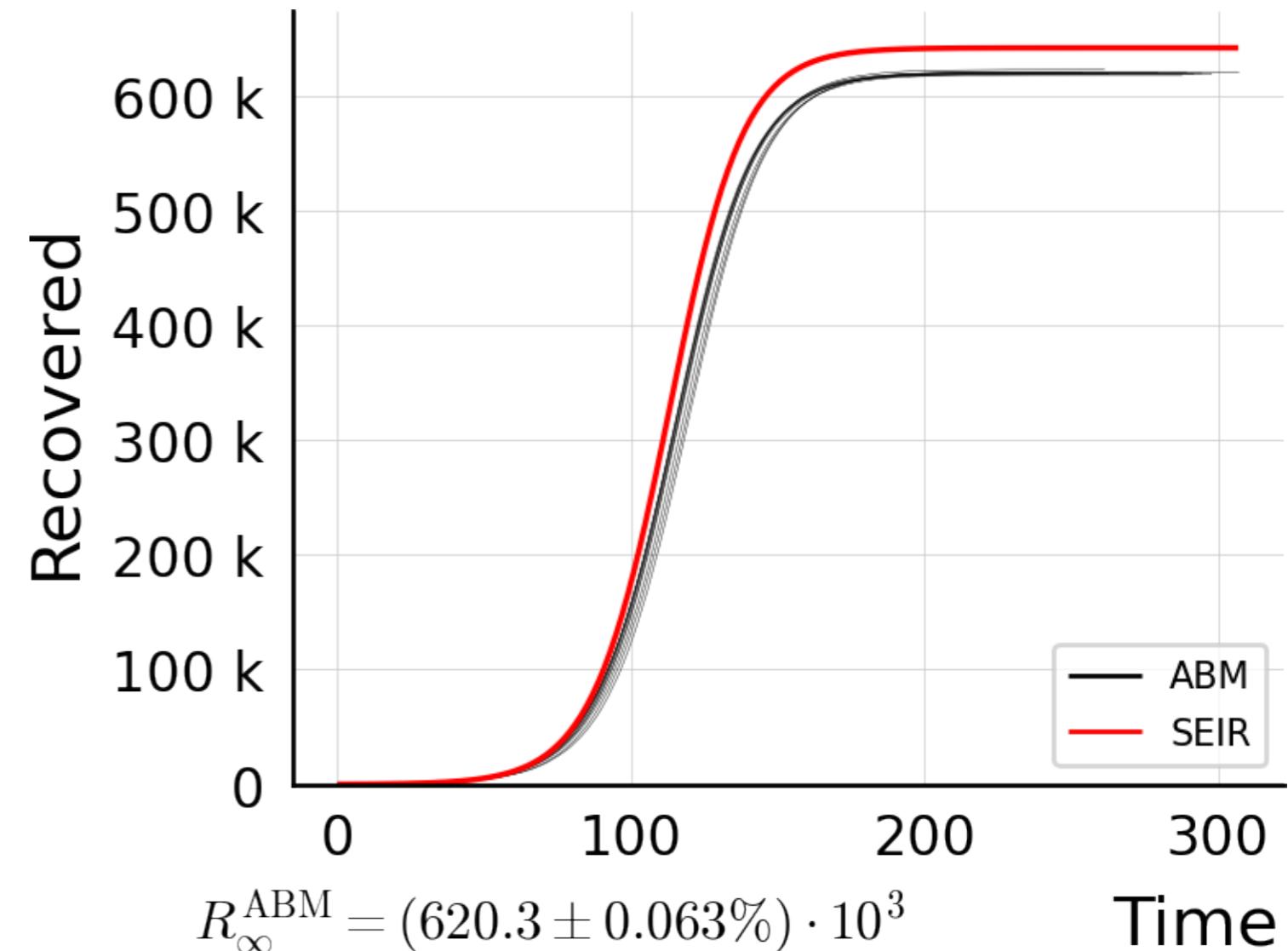
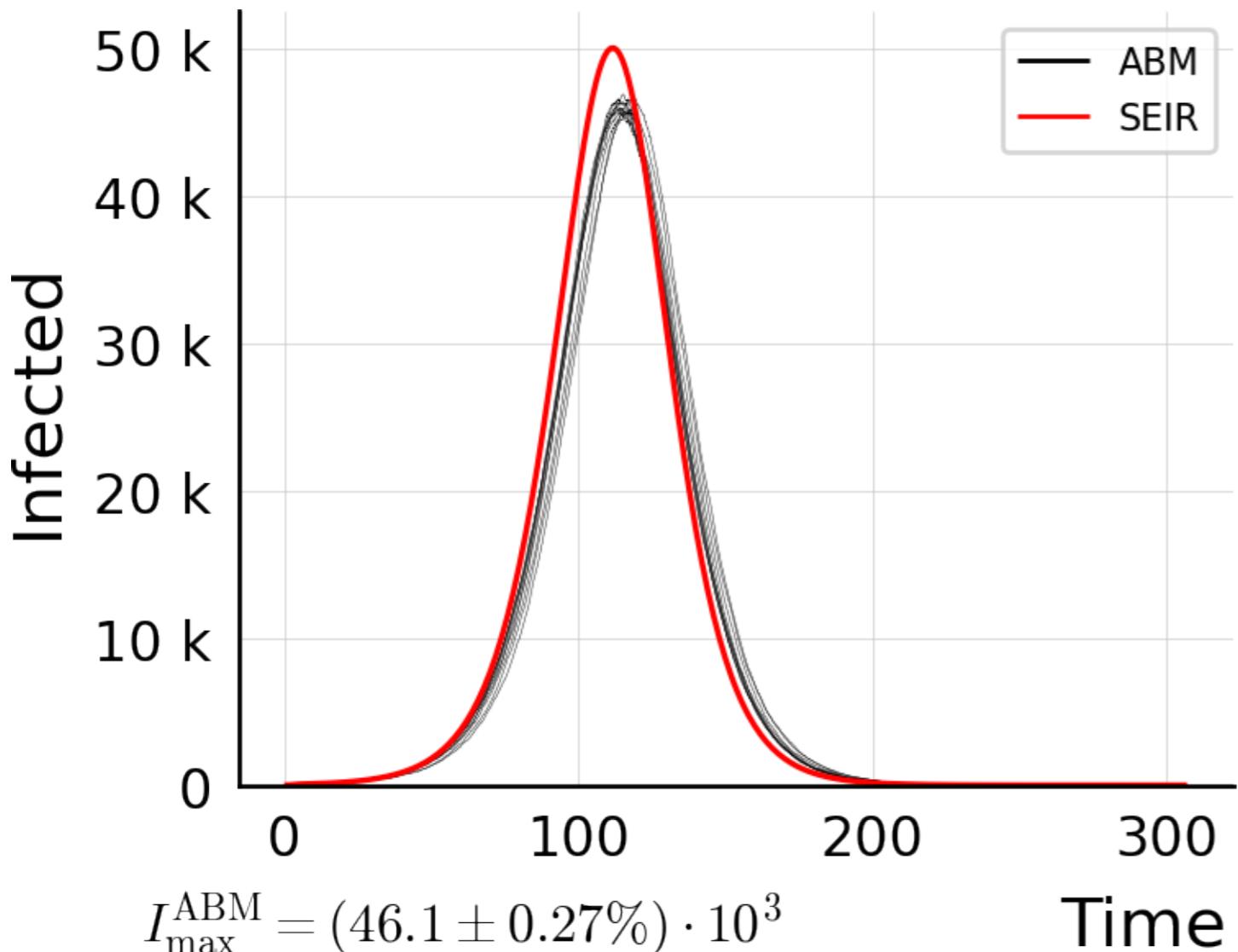
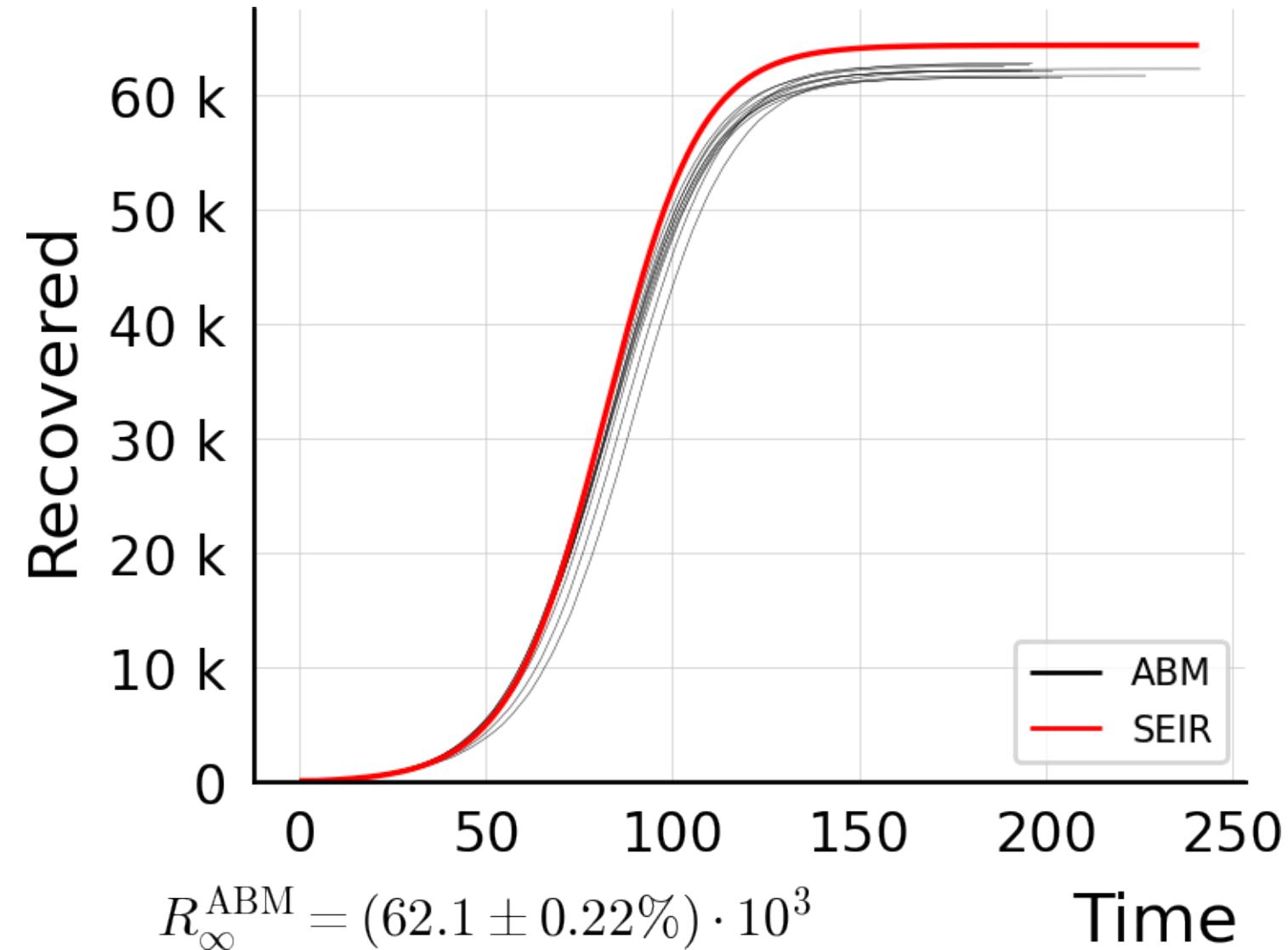
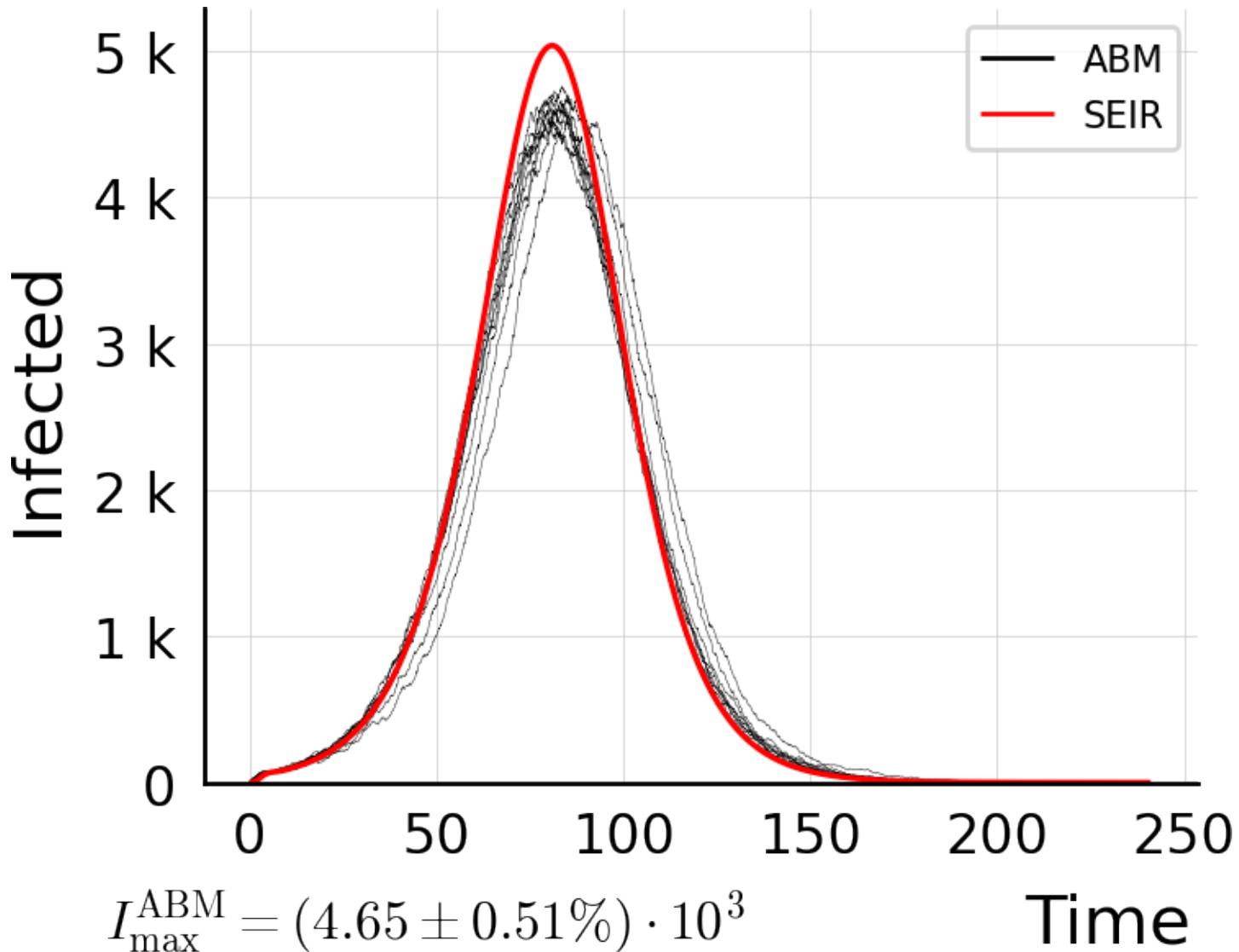


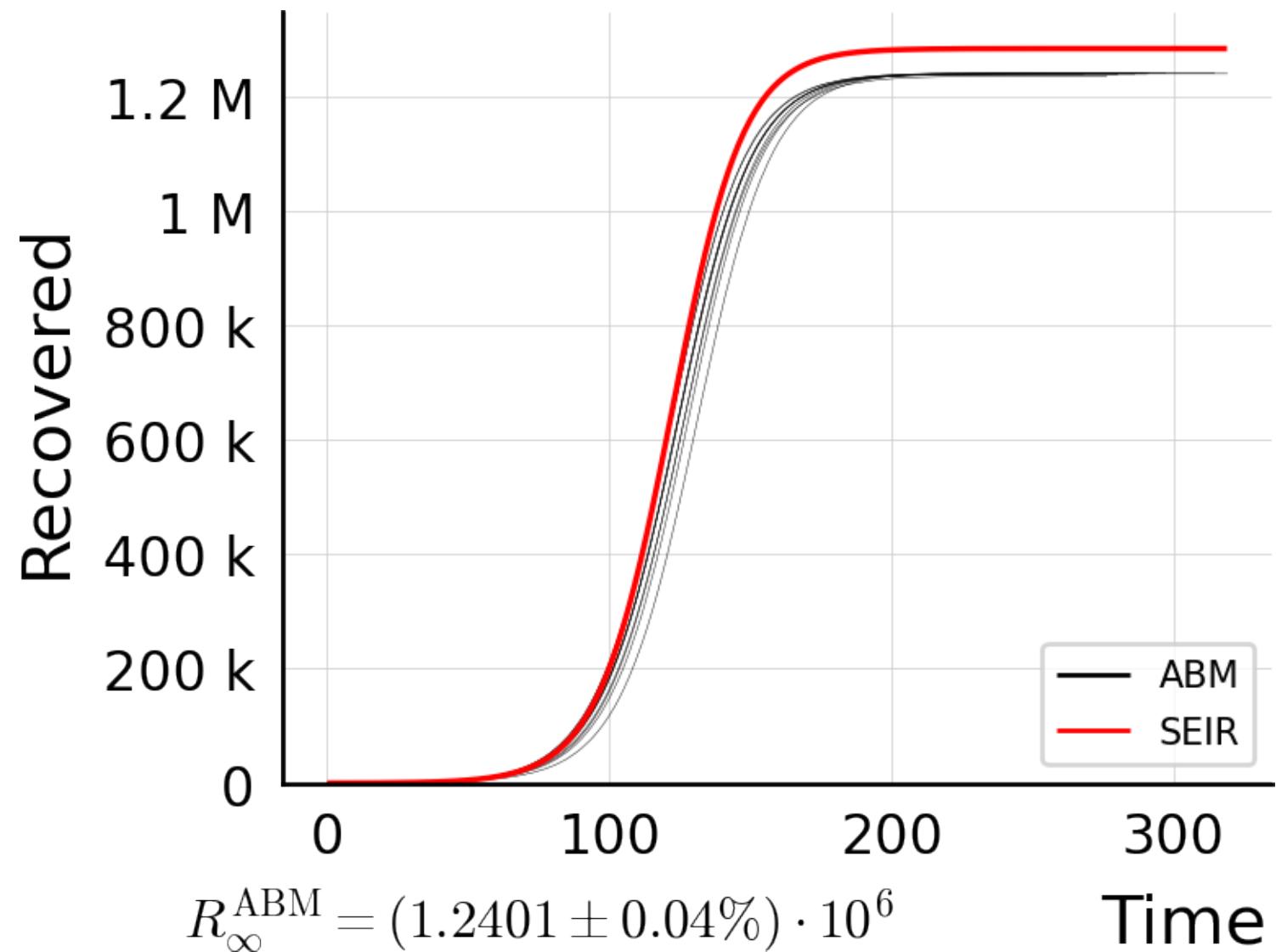
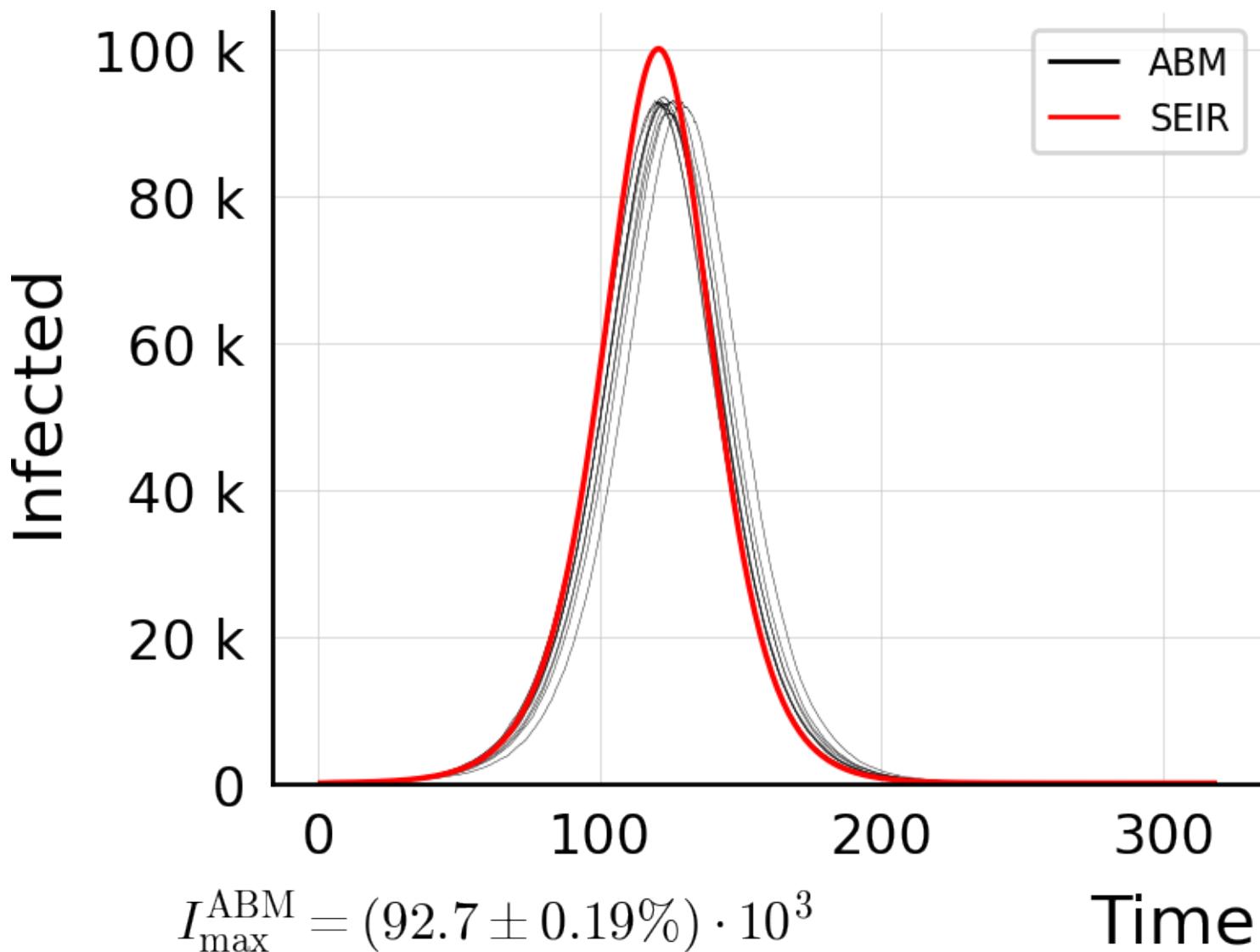
$N_{\text{tot}} = 1M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



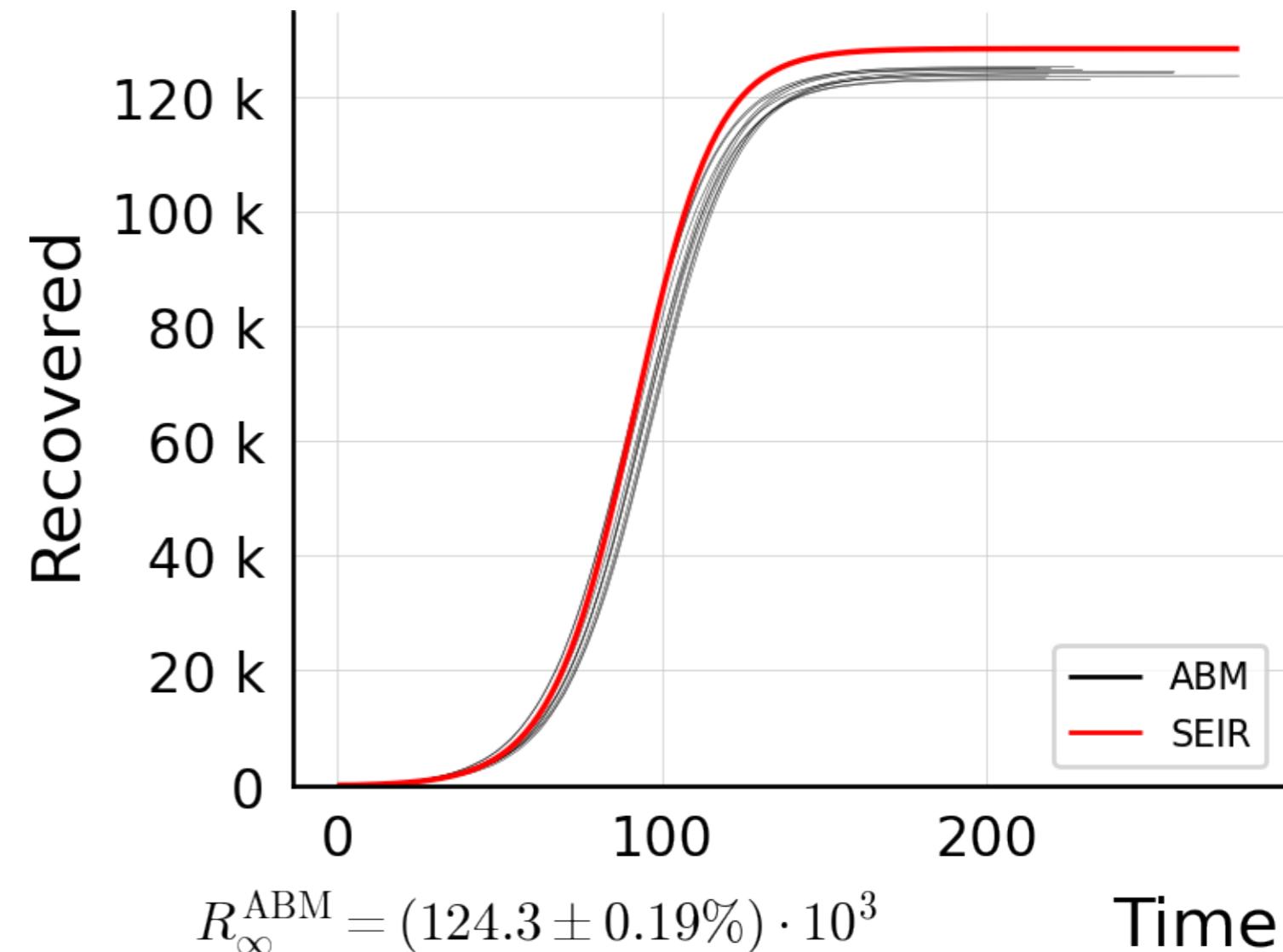
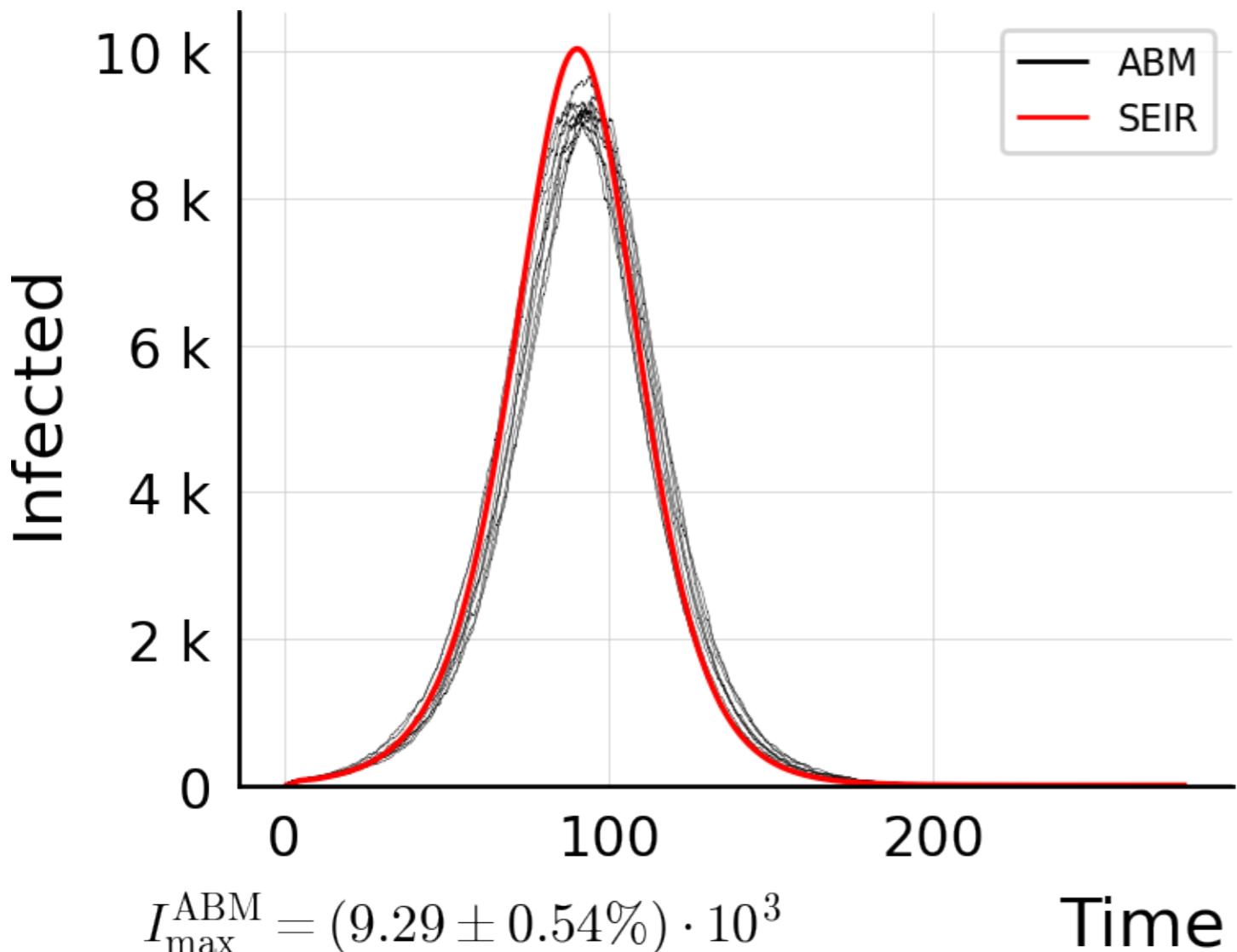
$N_{\text{tot}} = 100K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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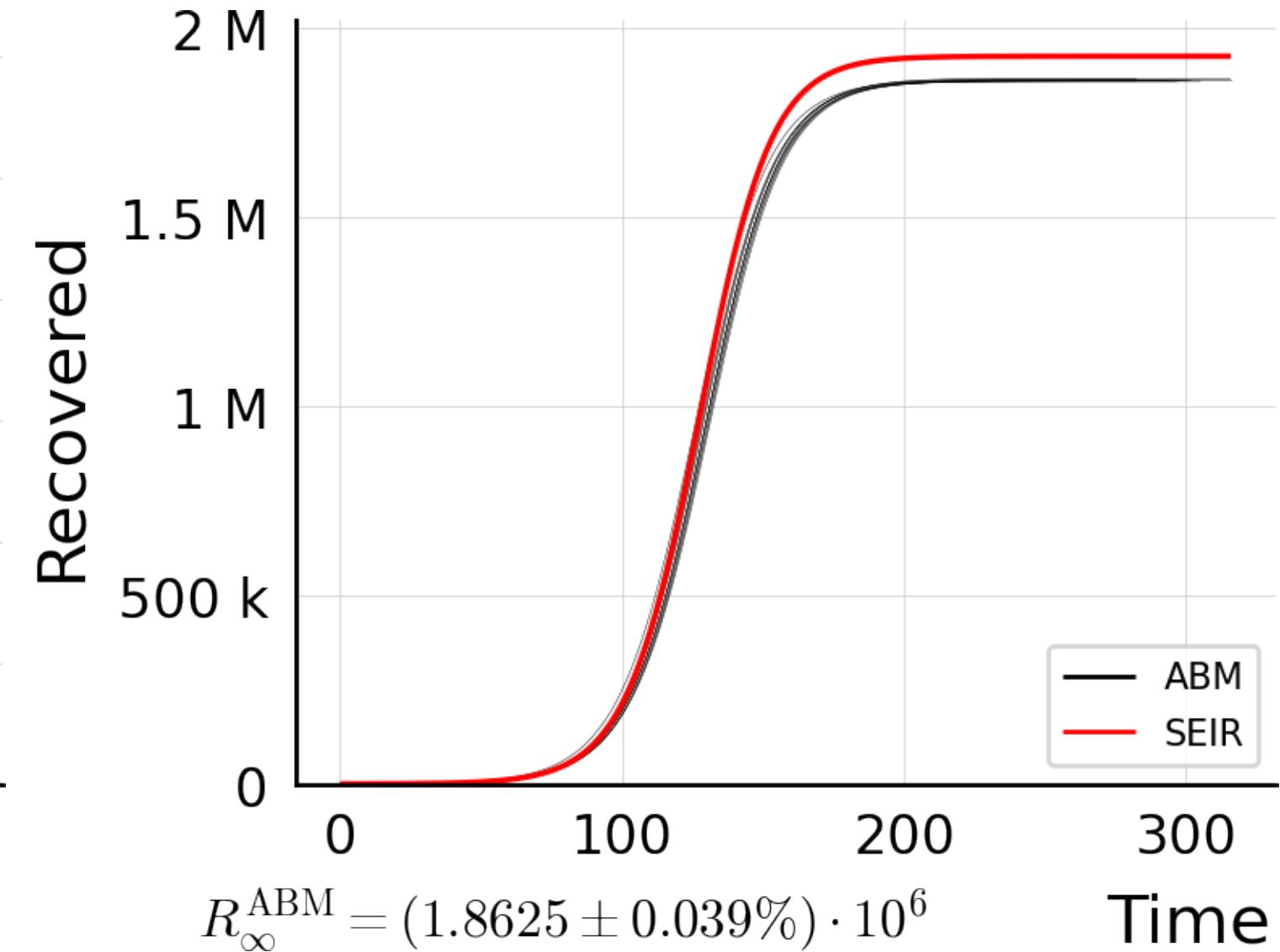
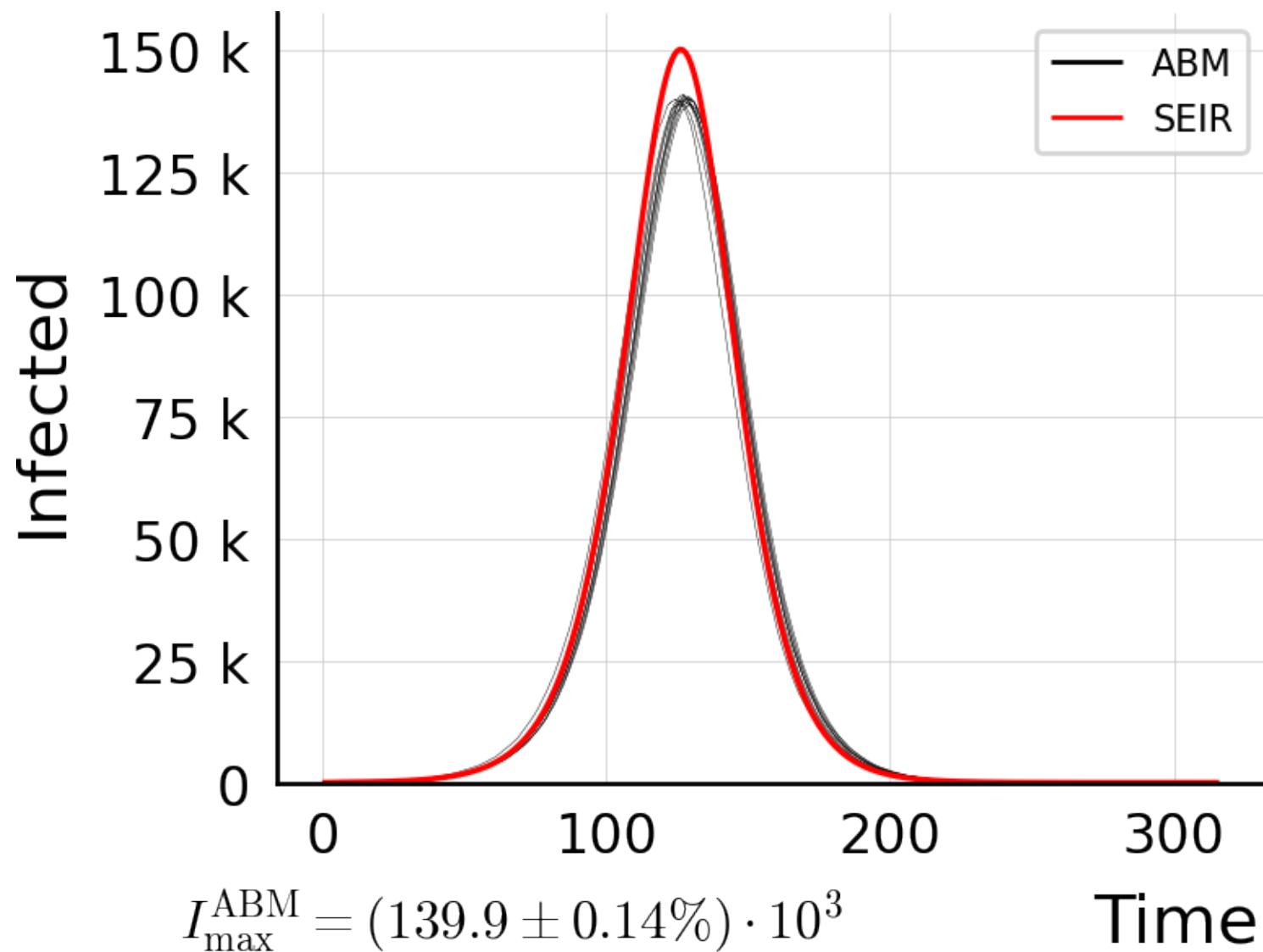
$N_{\text{tot}} = 2M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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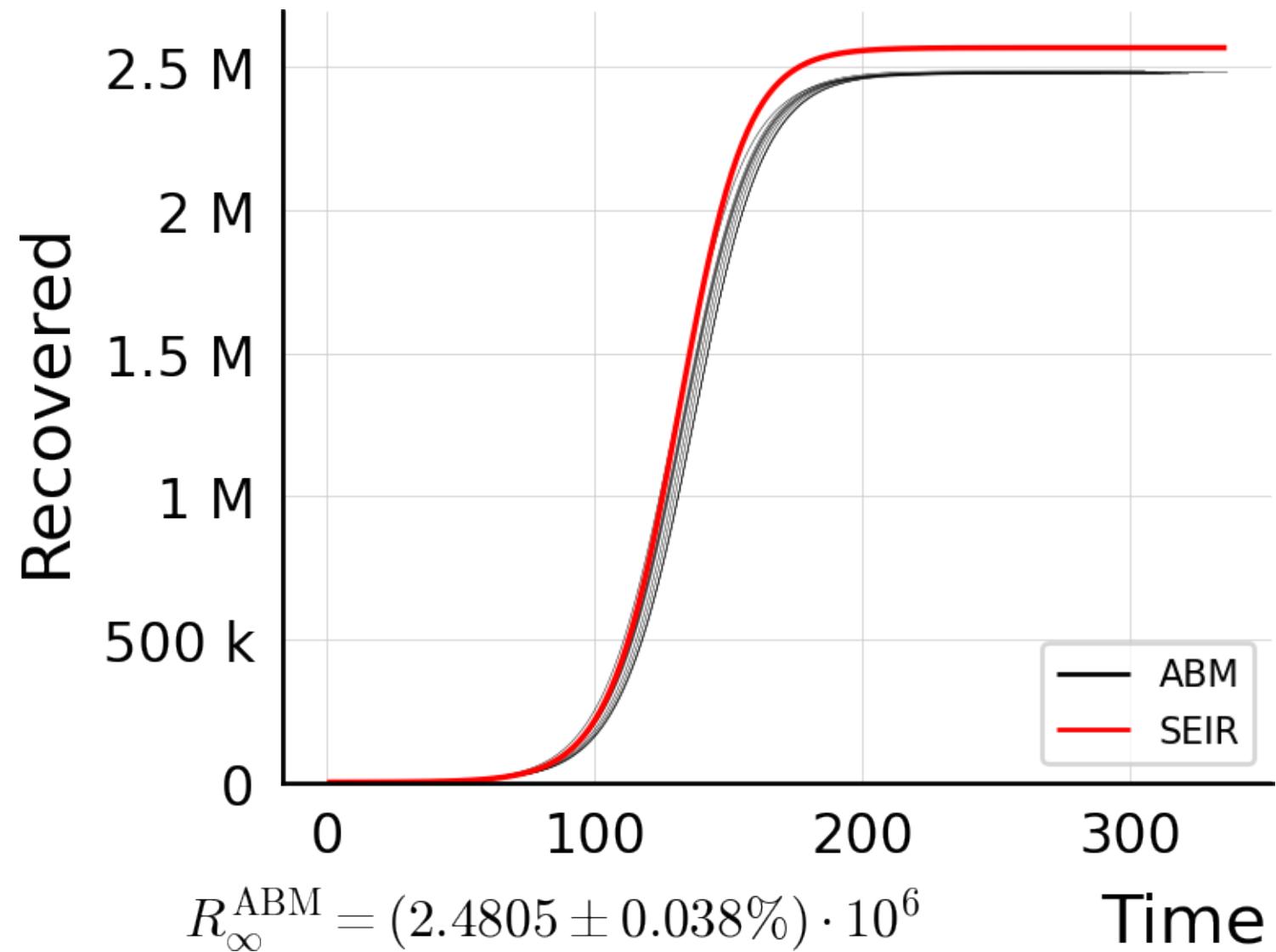
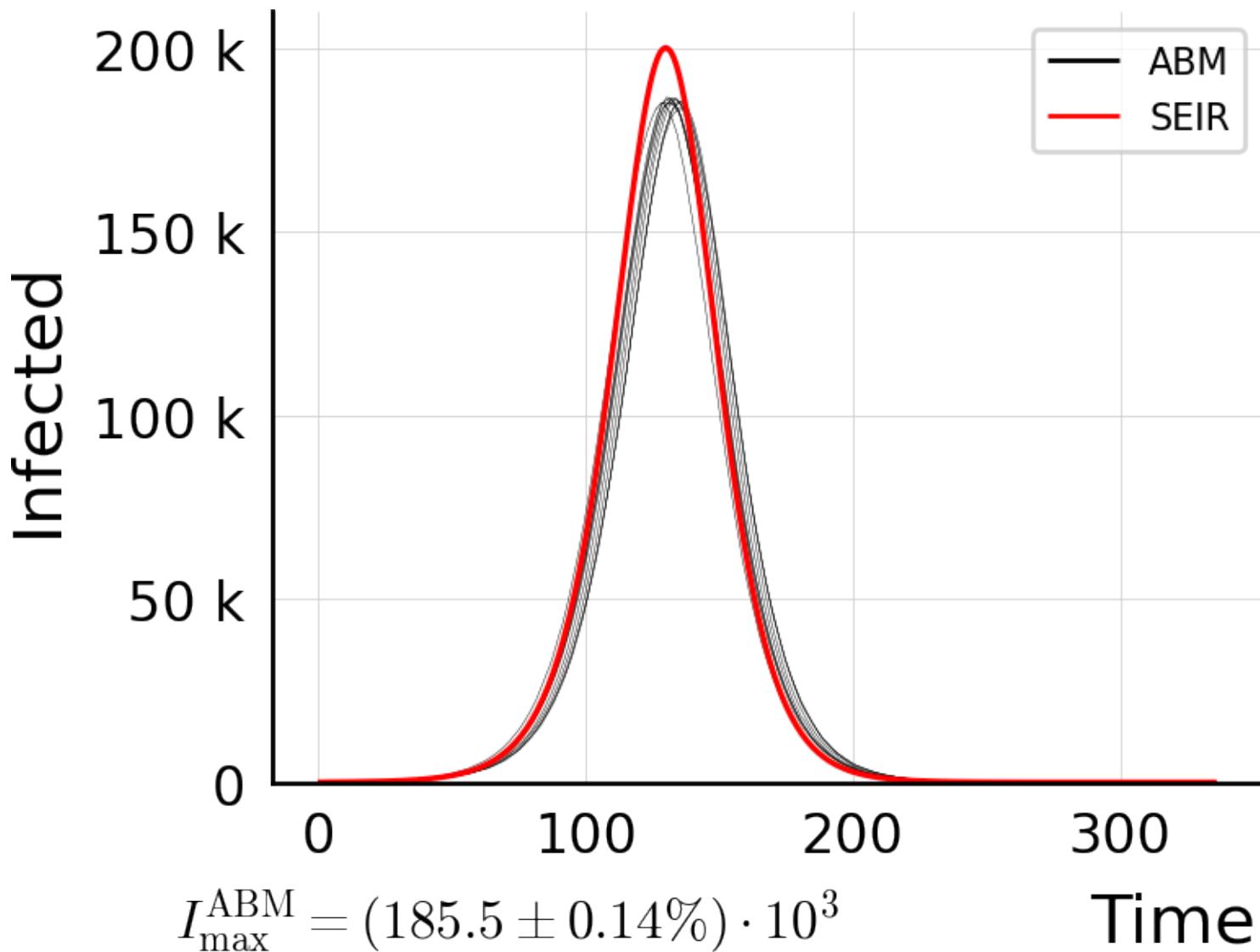
$N_{\text{tot}} = 200K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



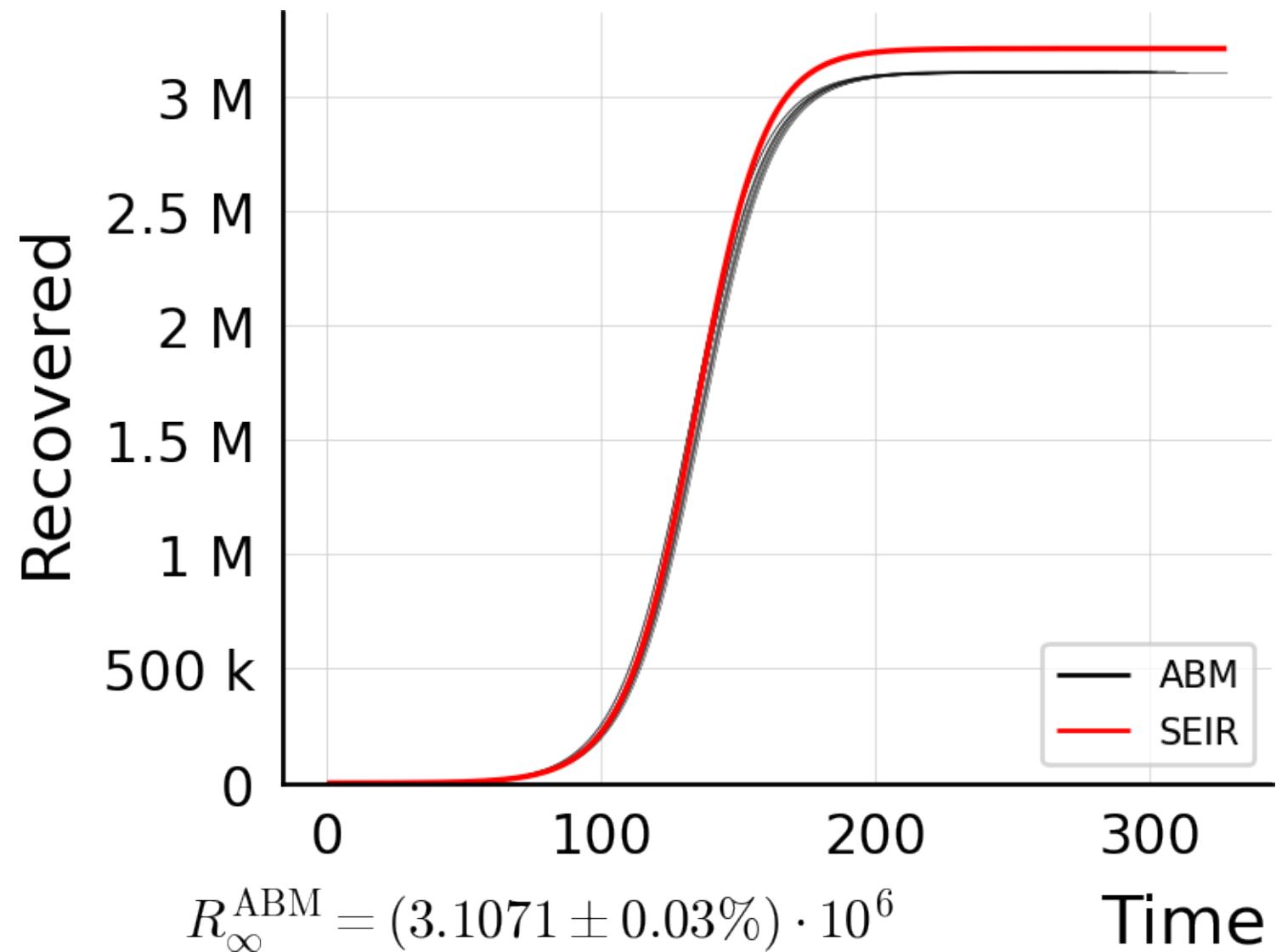
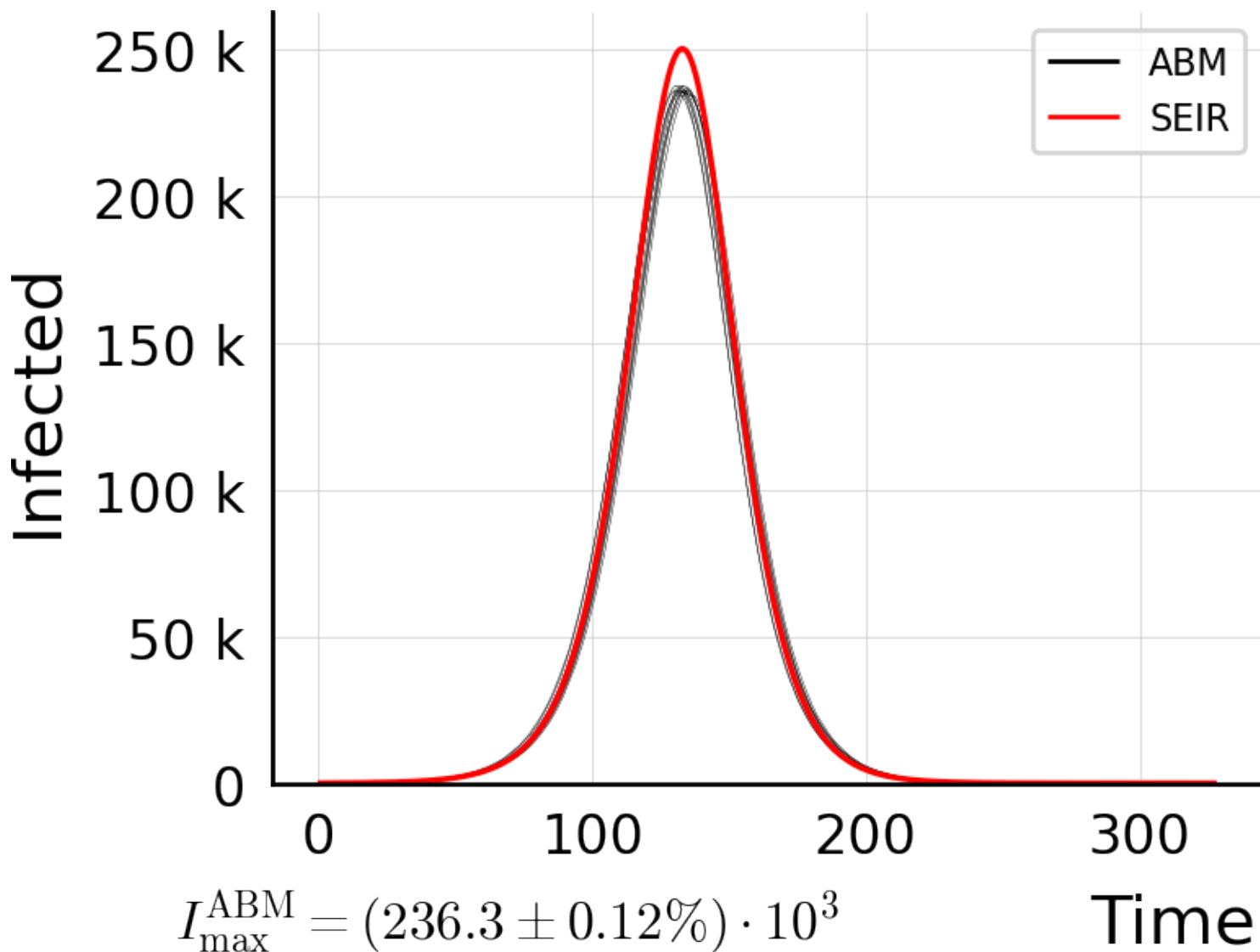
$N_{\text{tot}} = 3M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



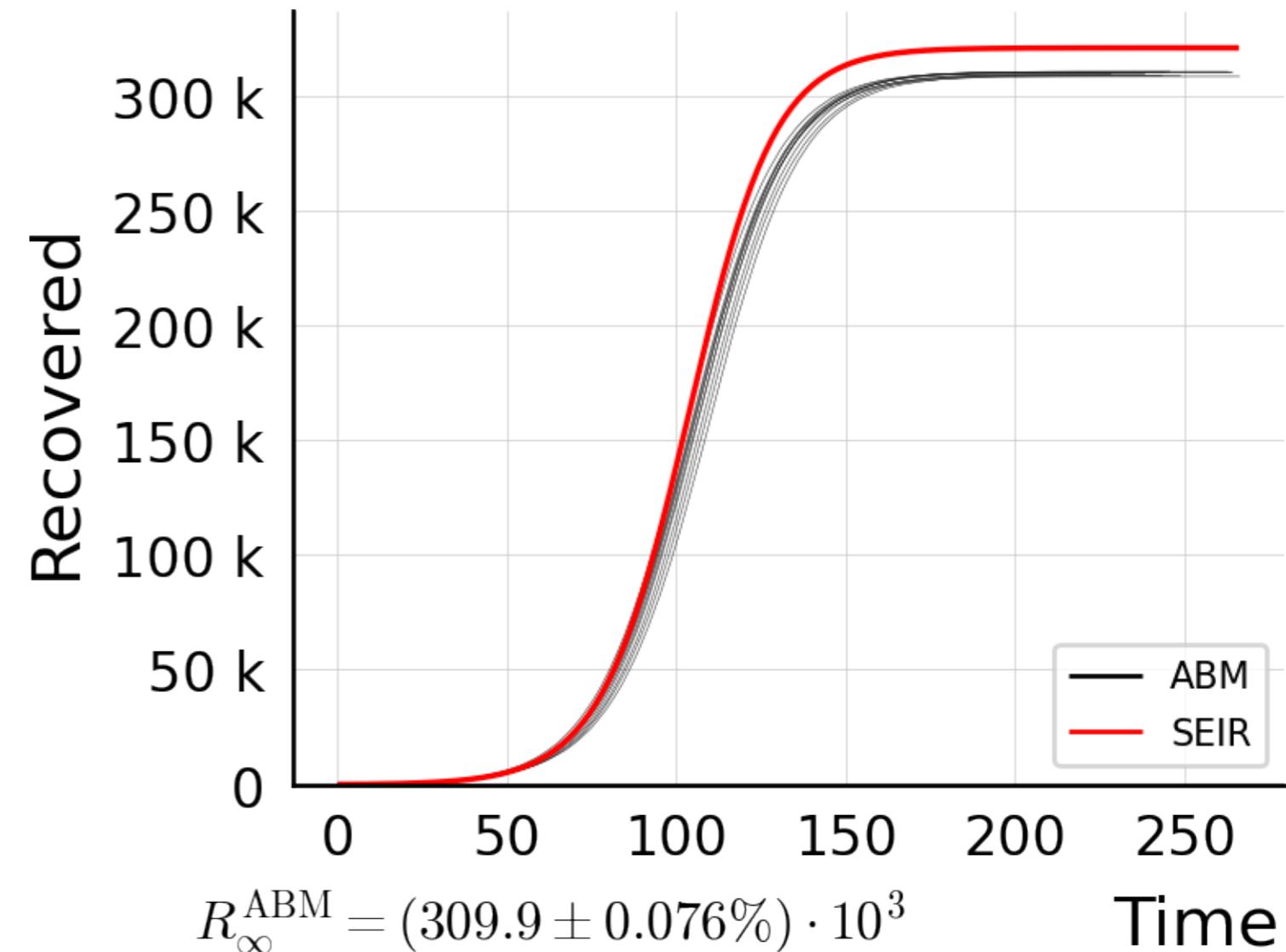
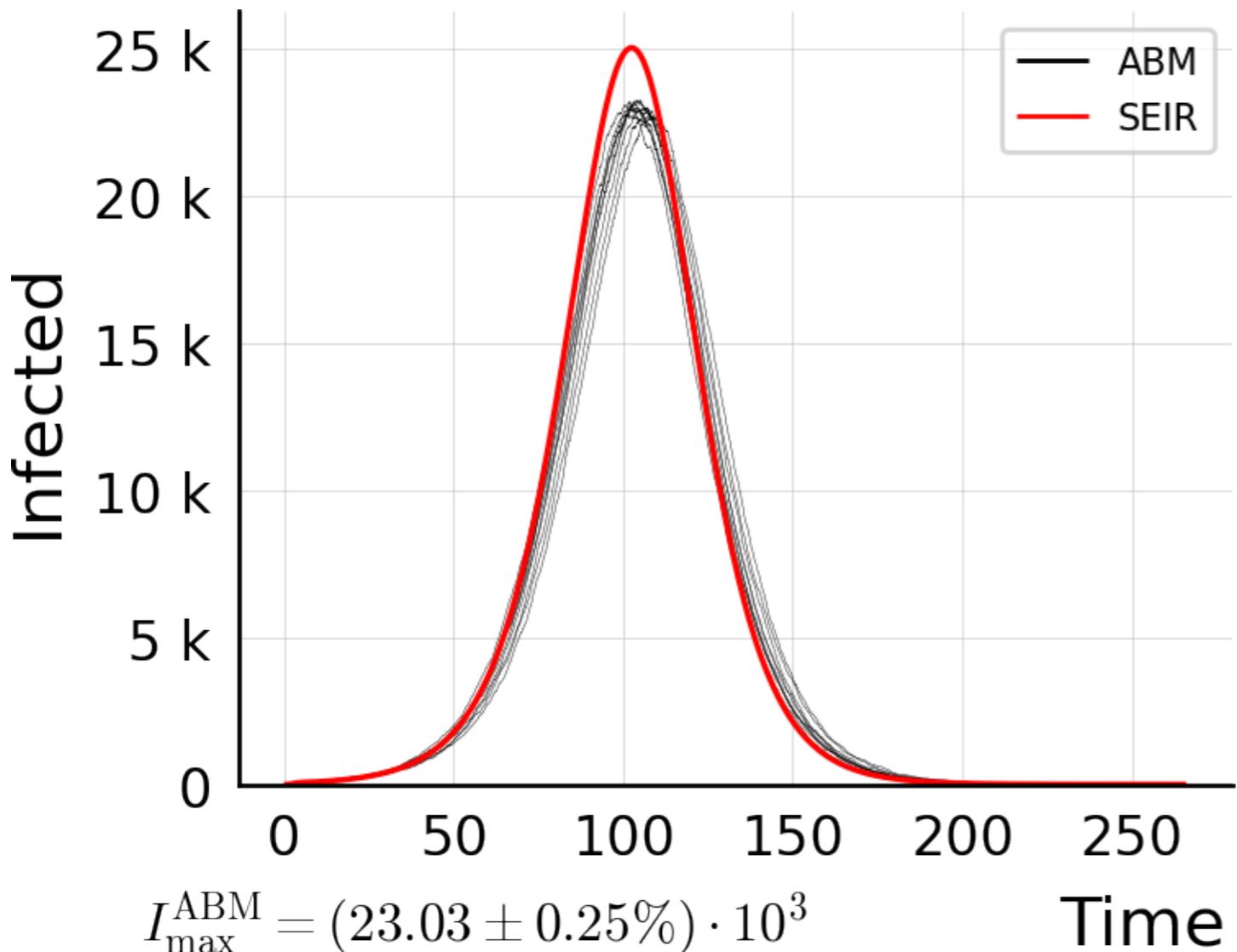
$N_{\text{tot}} = 4M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



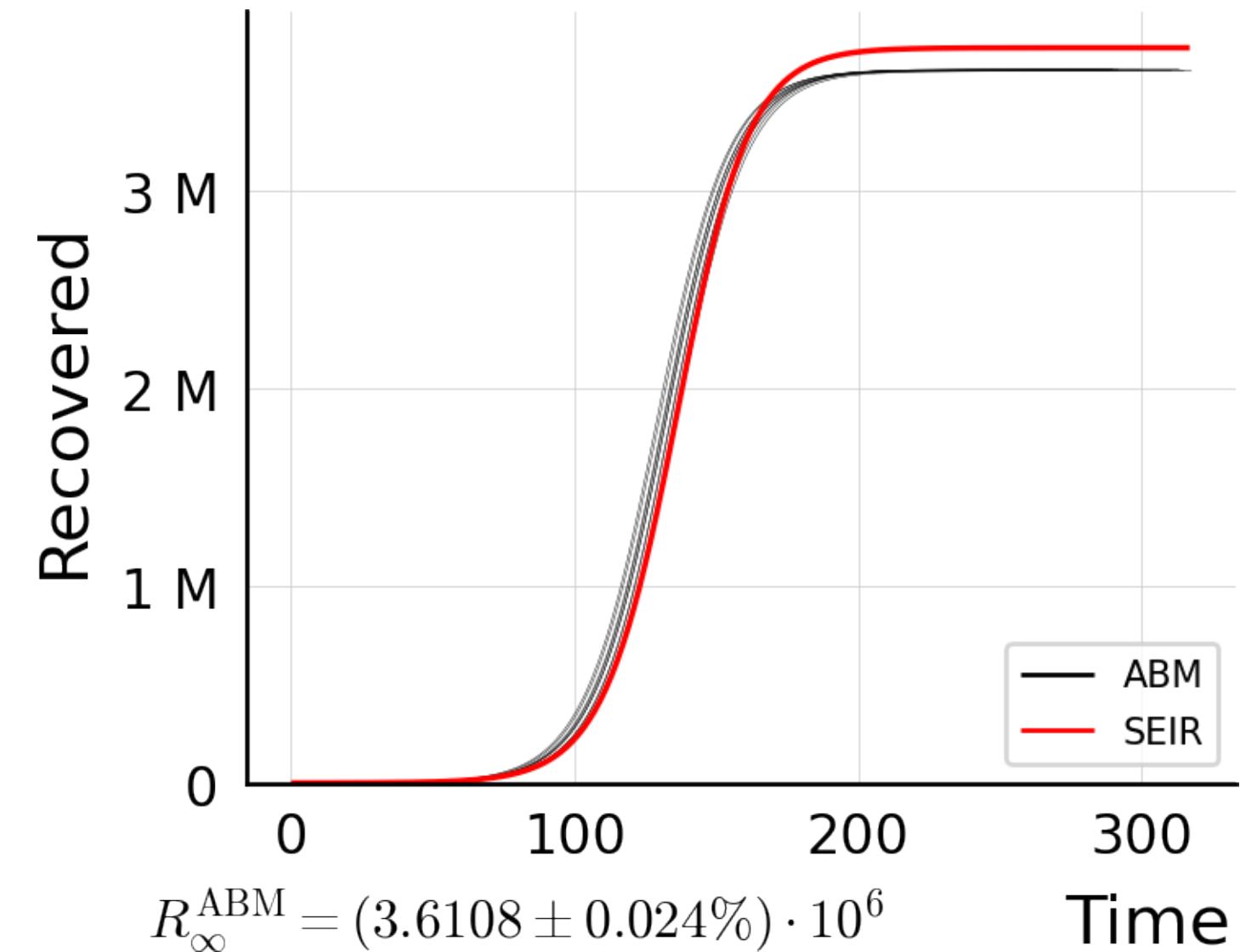
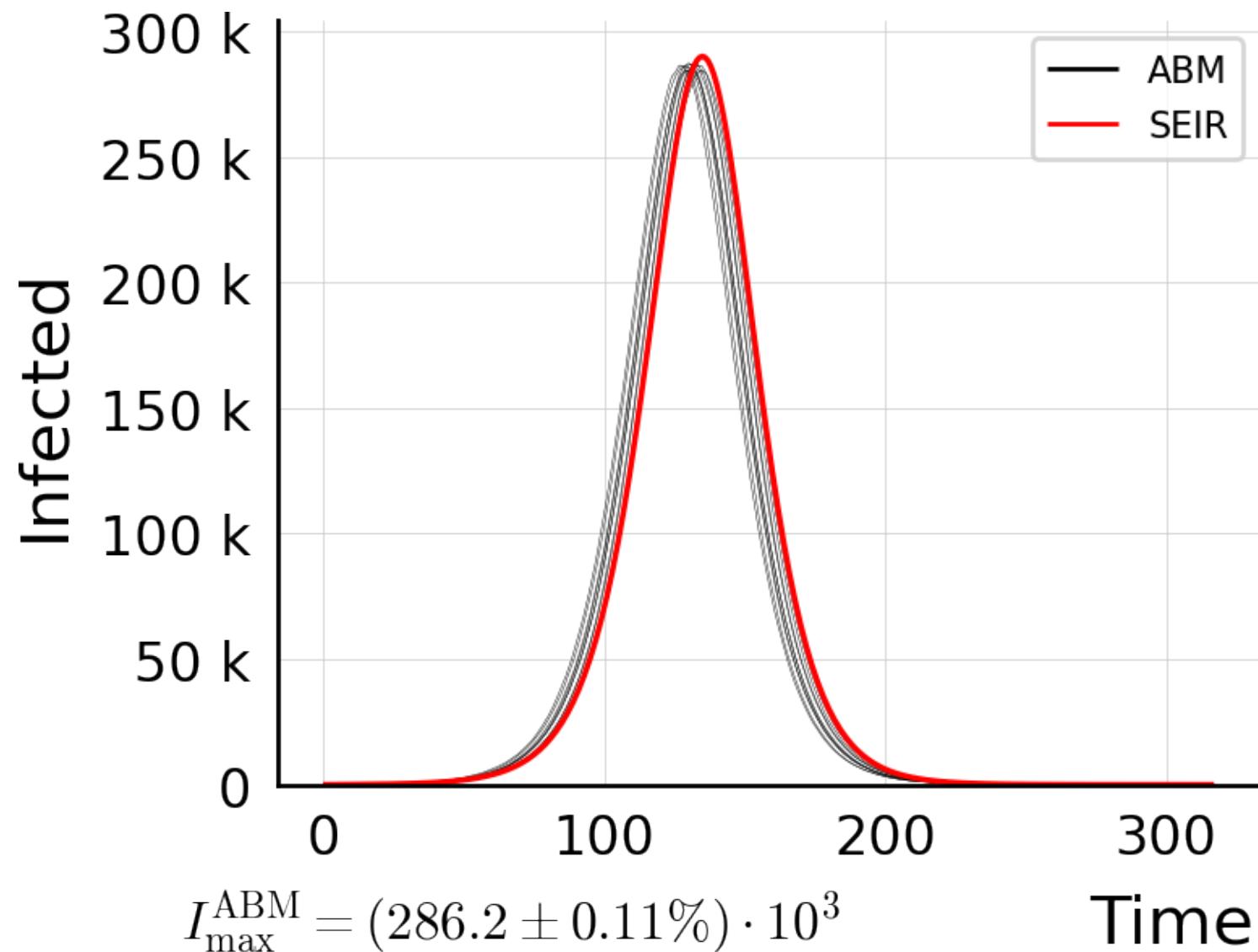
$N_{\text{tot}} = 5M$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



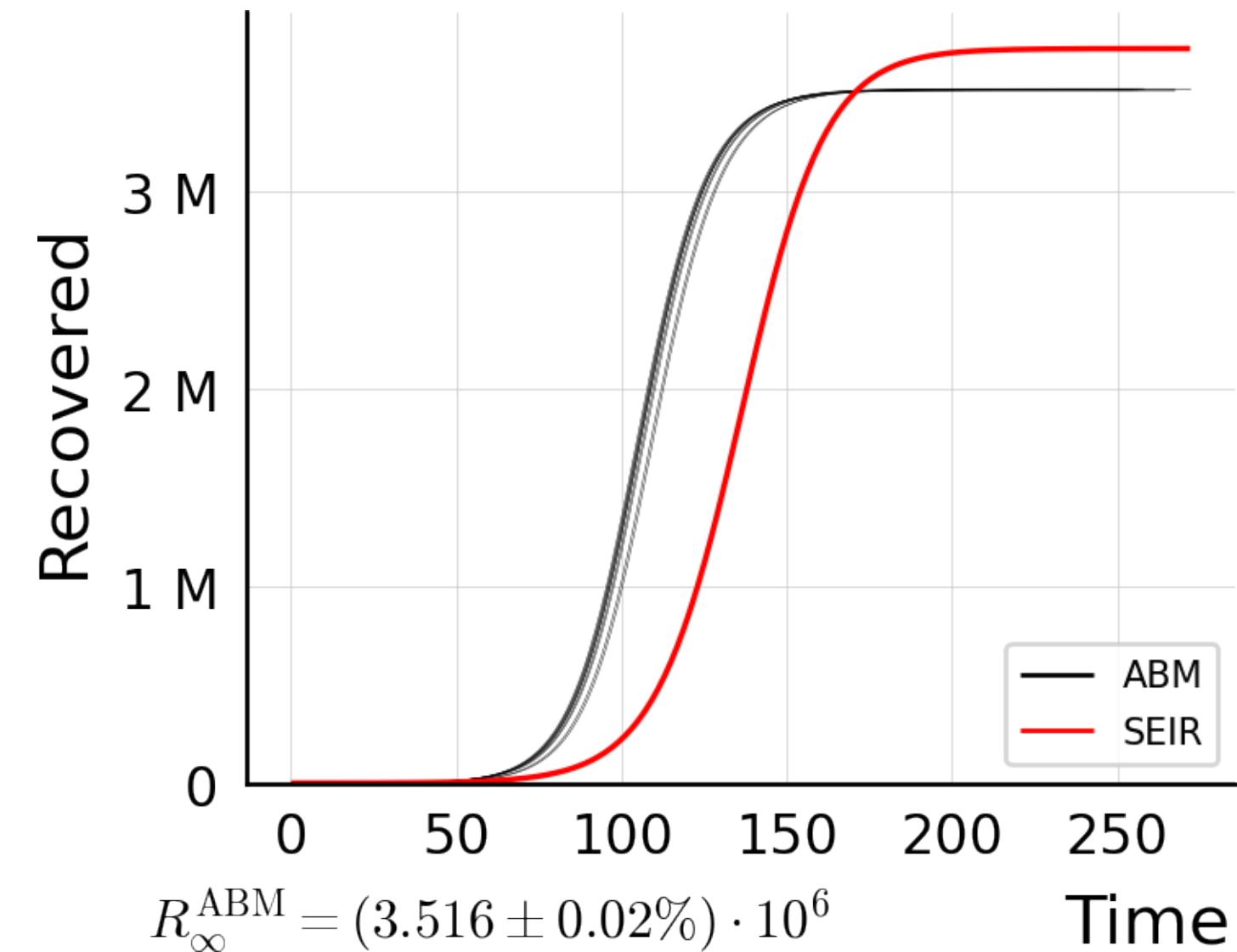
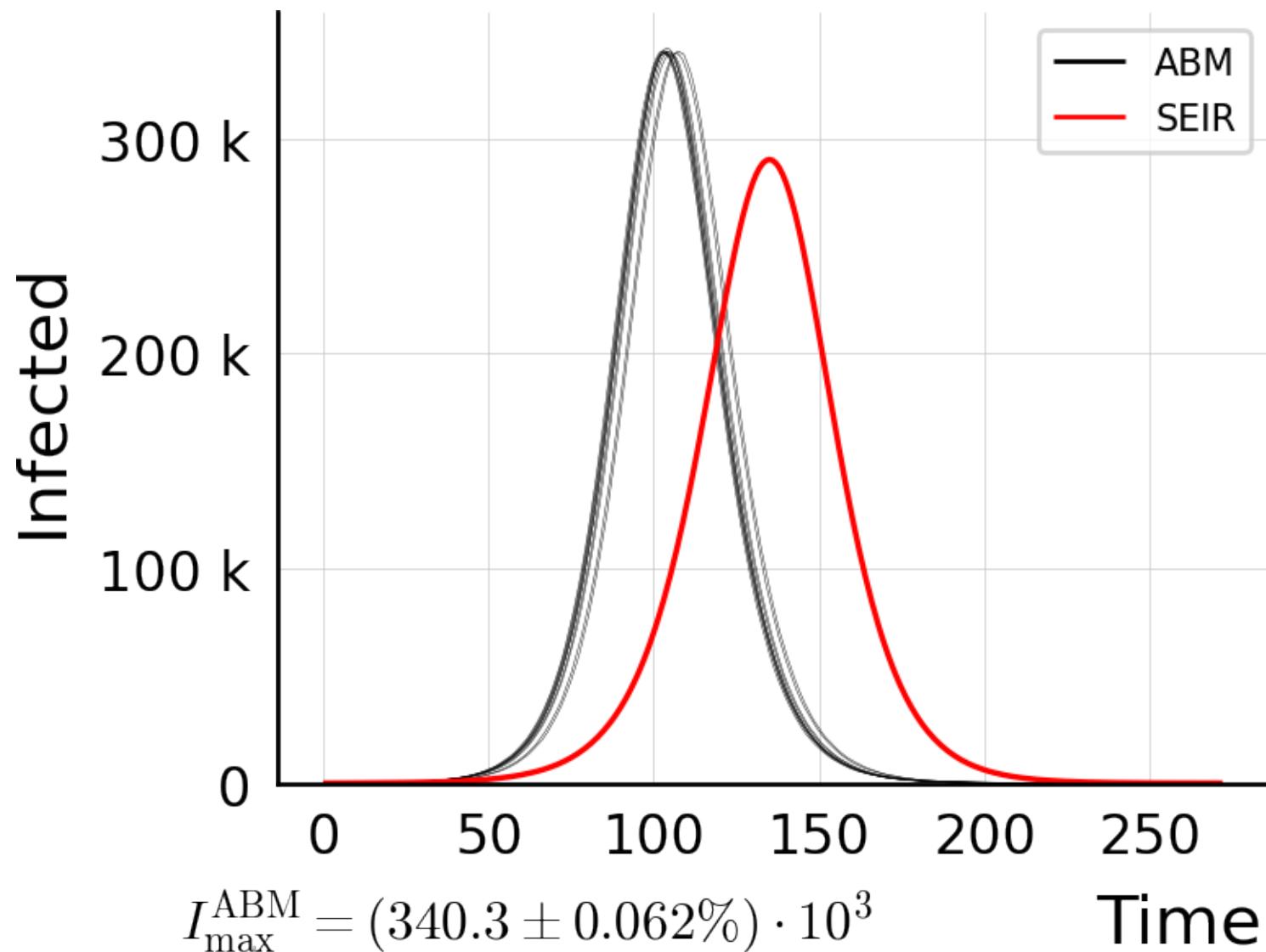
$N_{\text{tot}} = 500K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



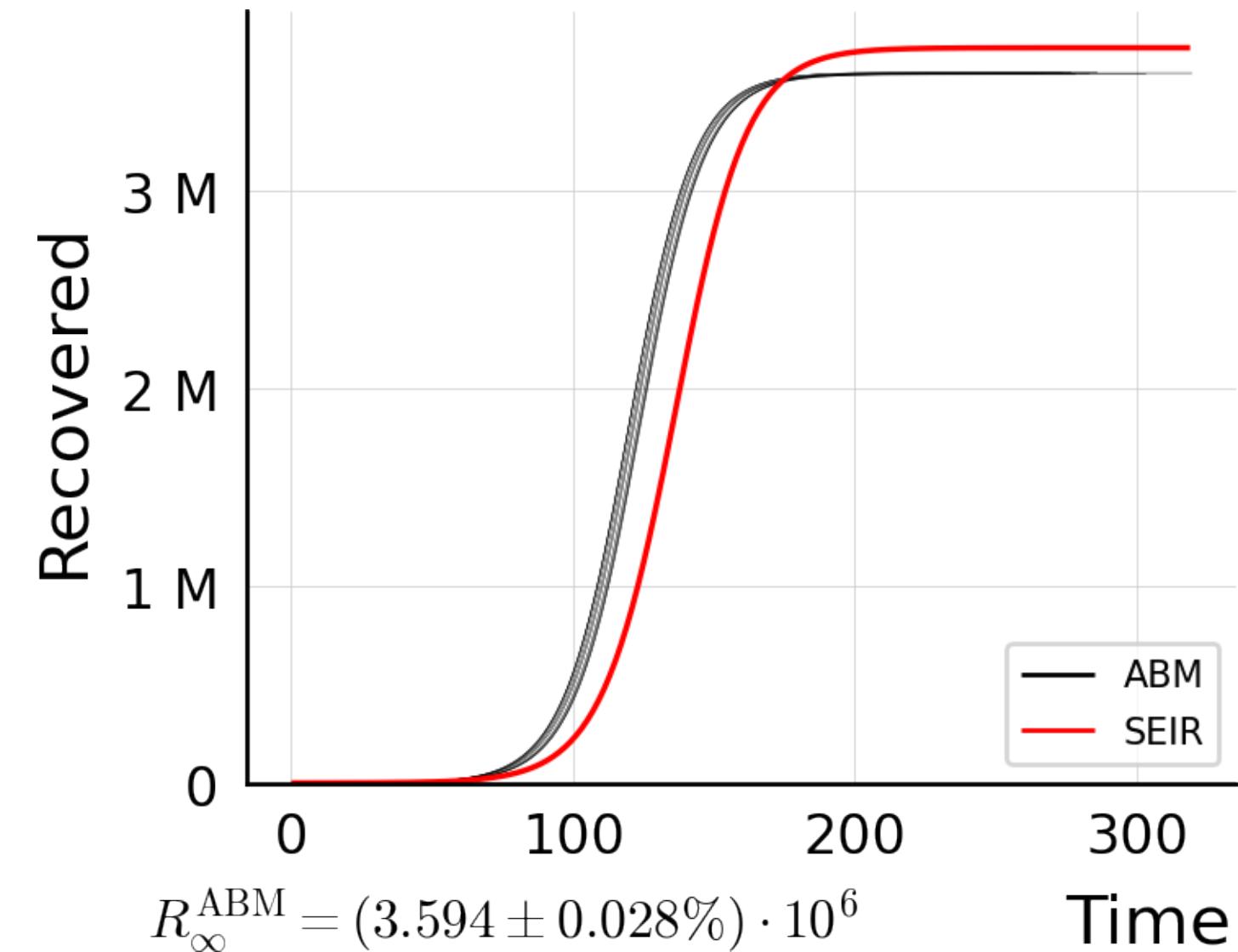
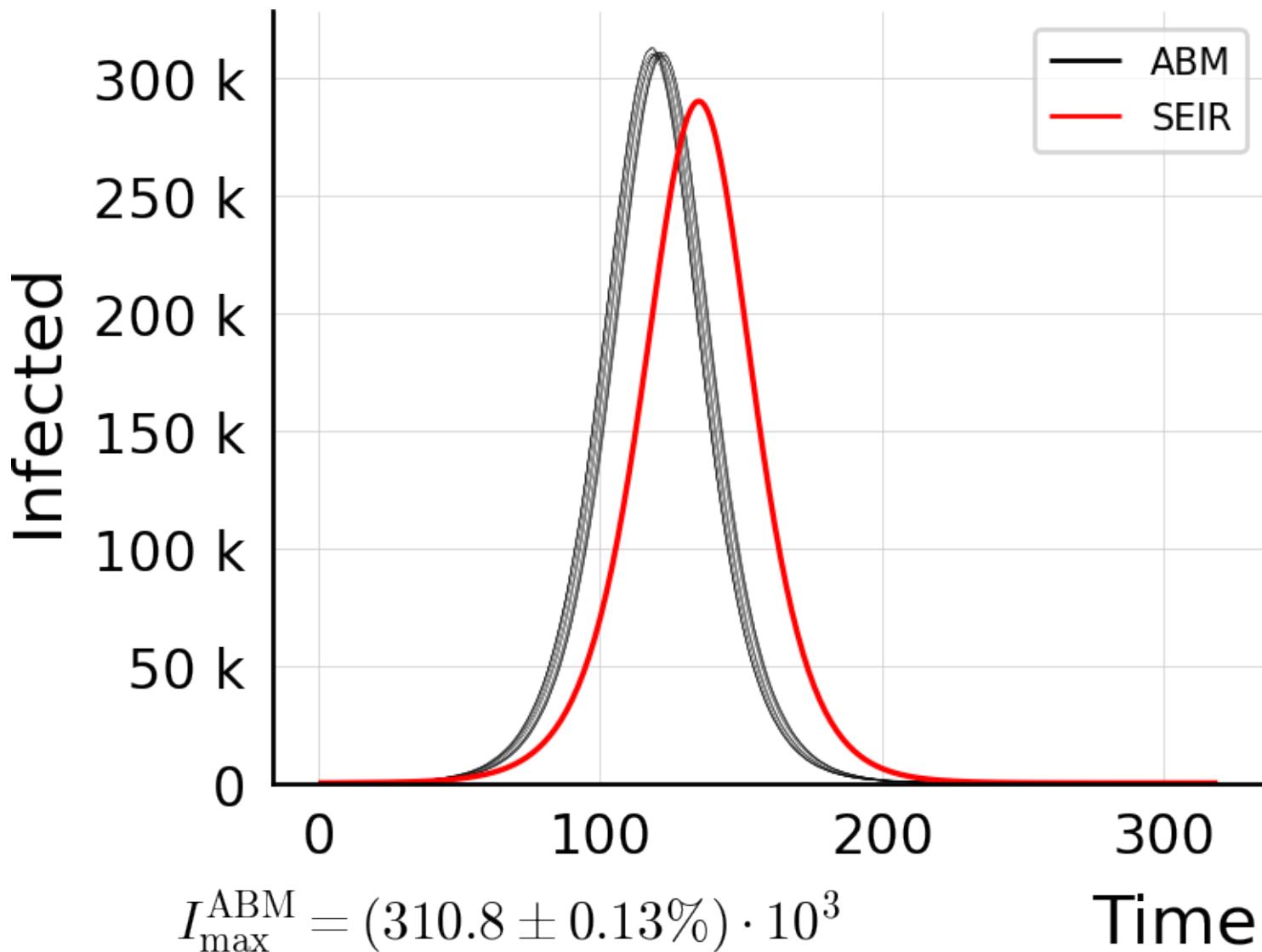
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.005$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



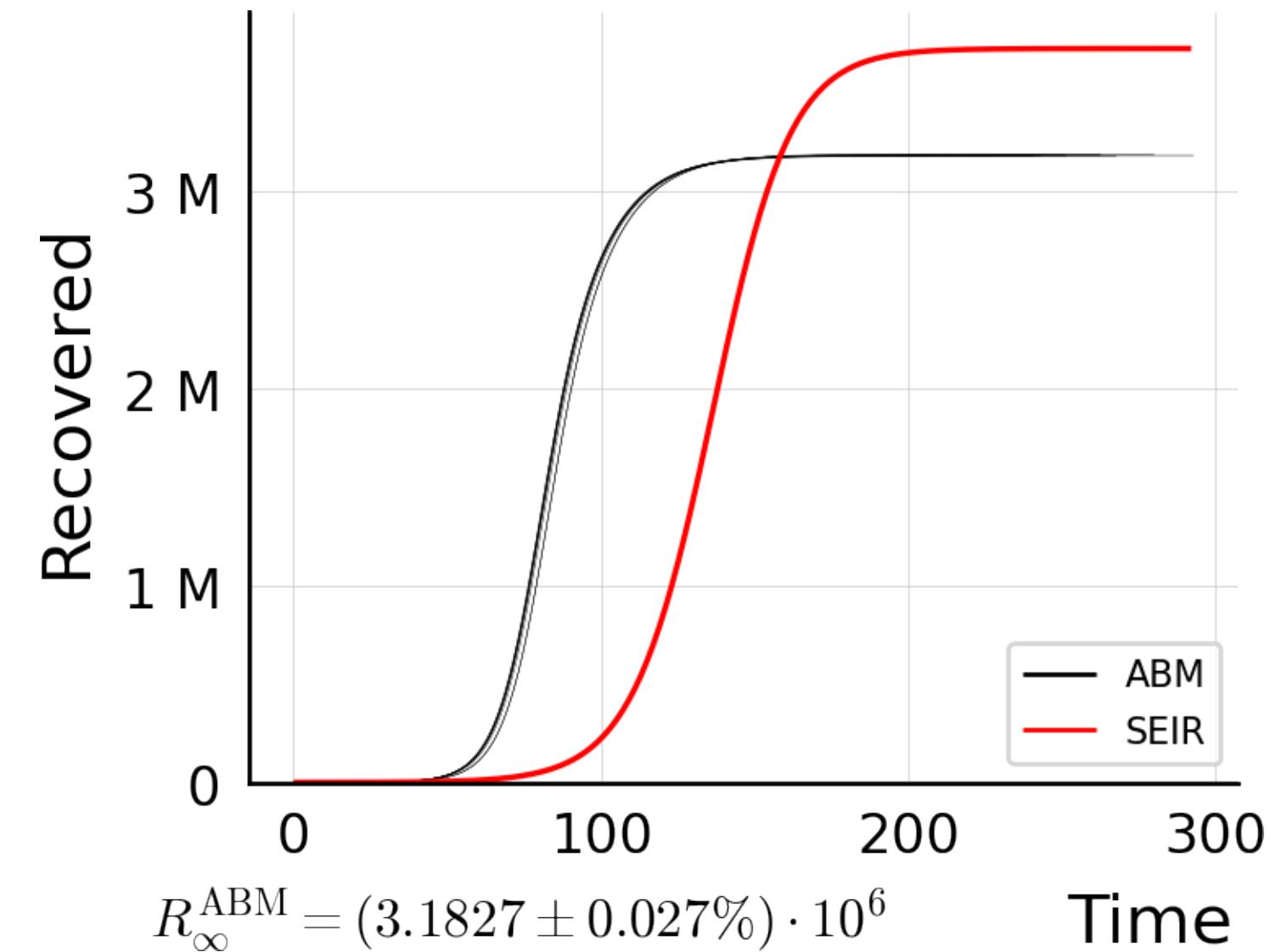
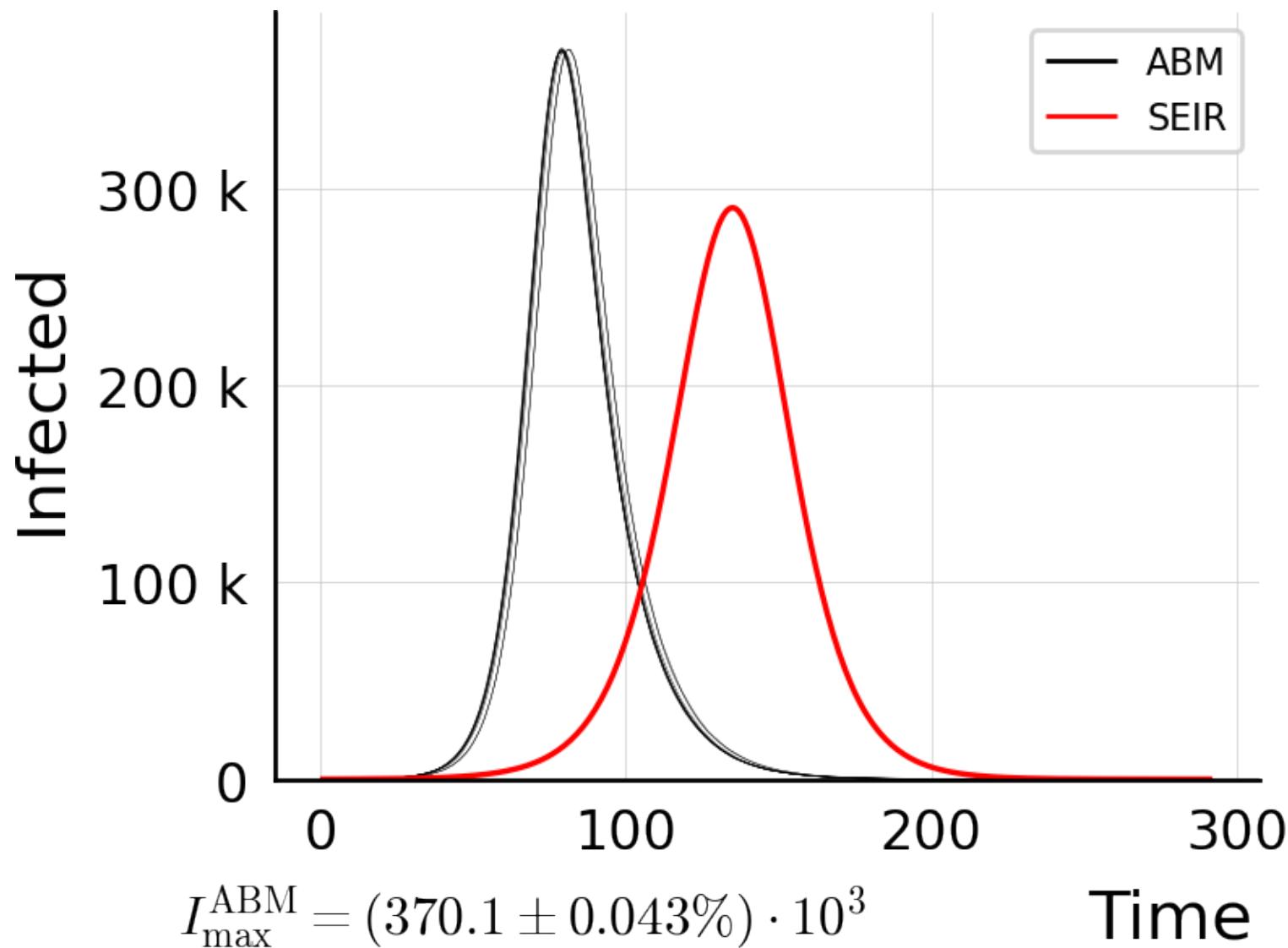
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.015$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



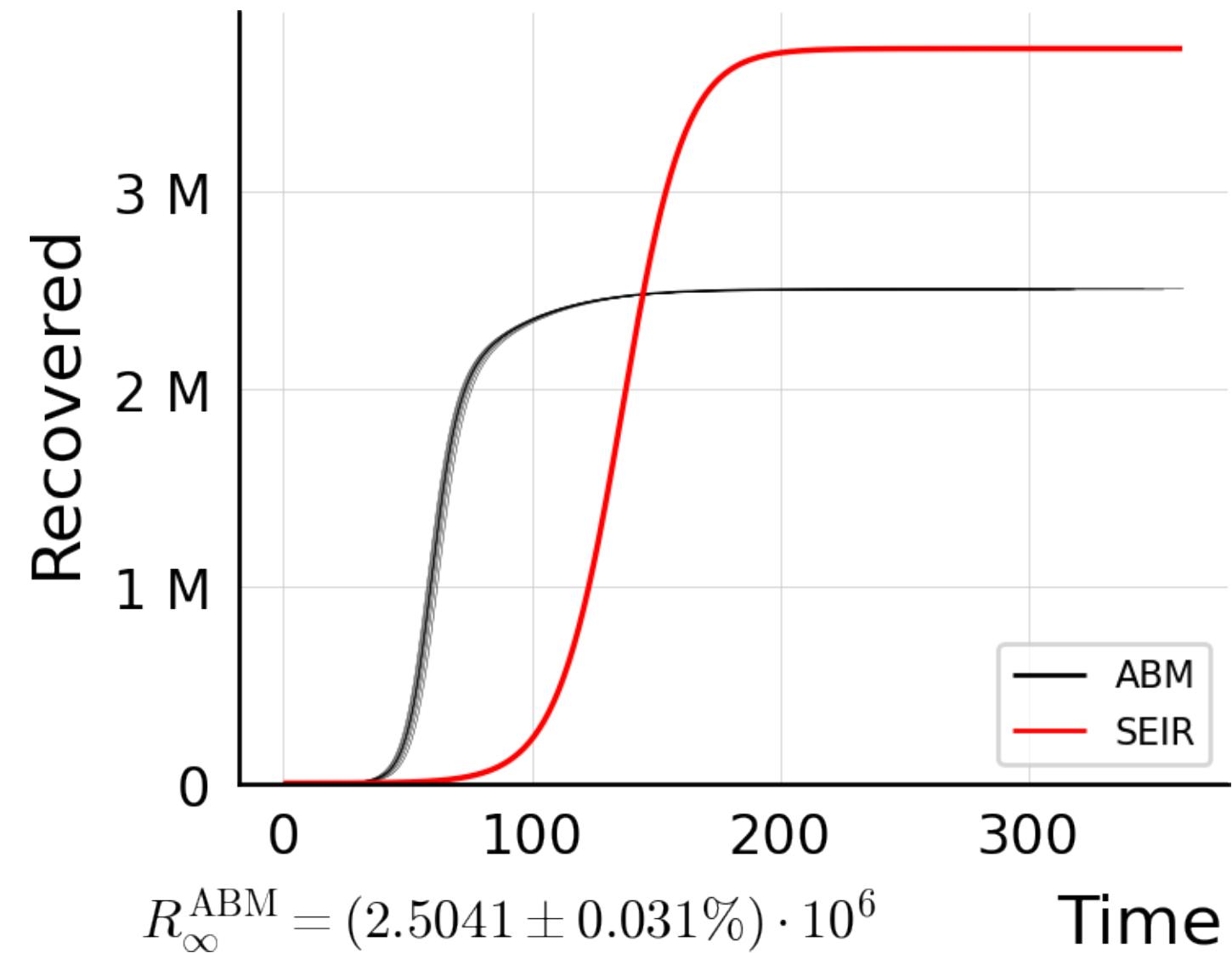
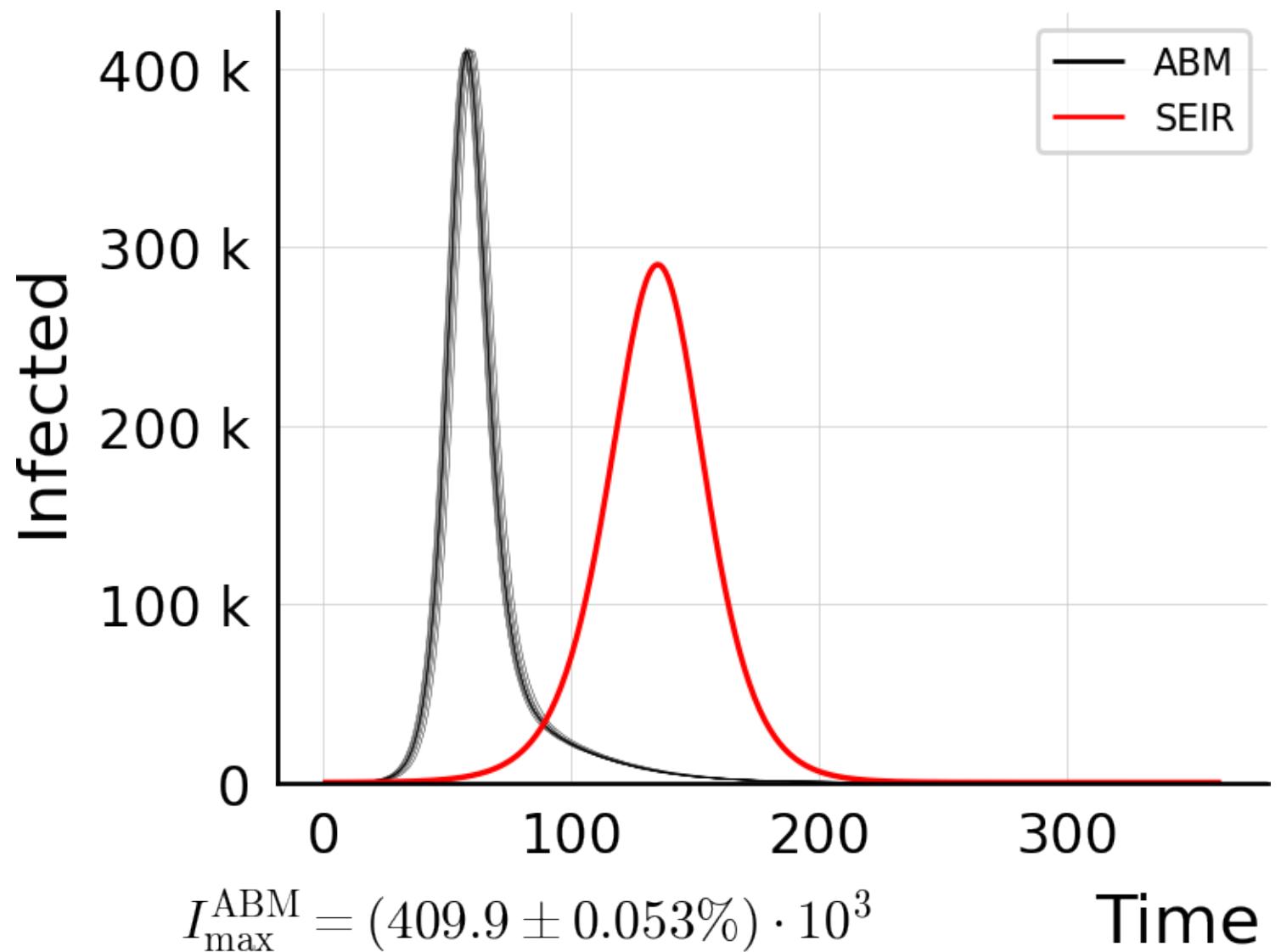
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.01$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



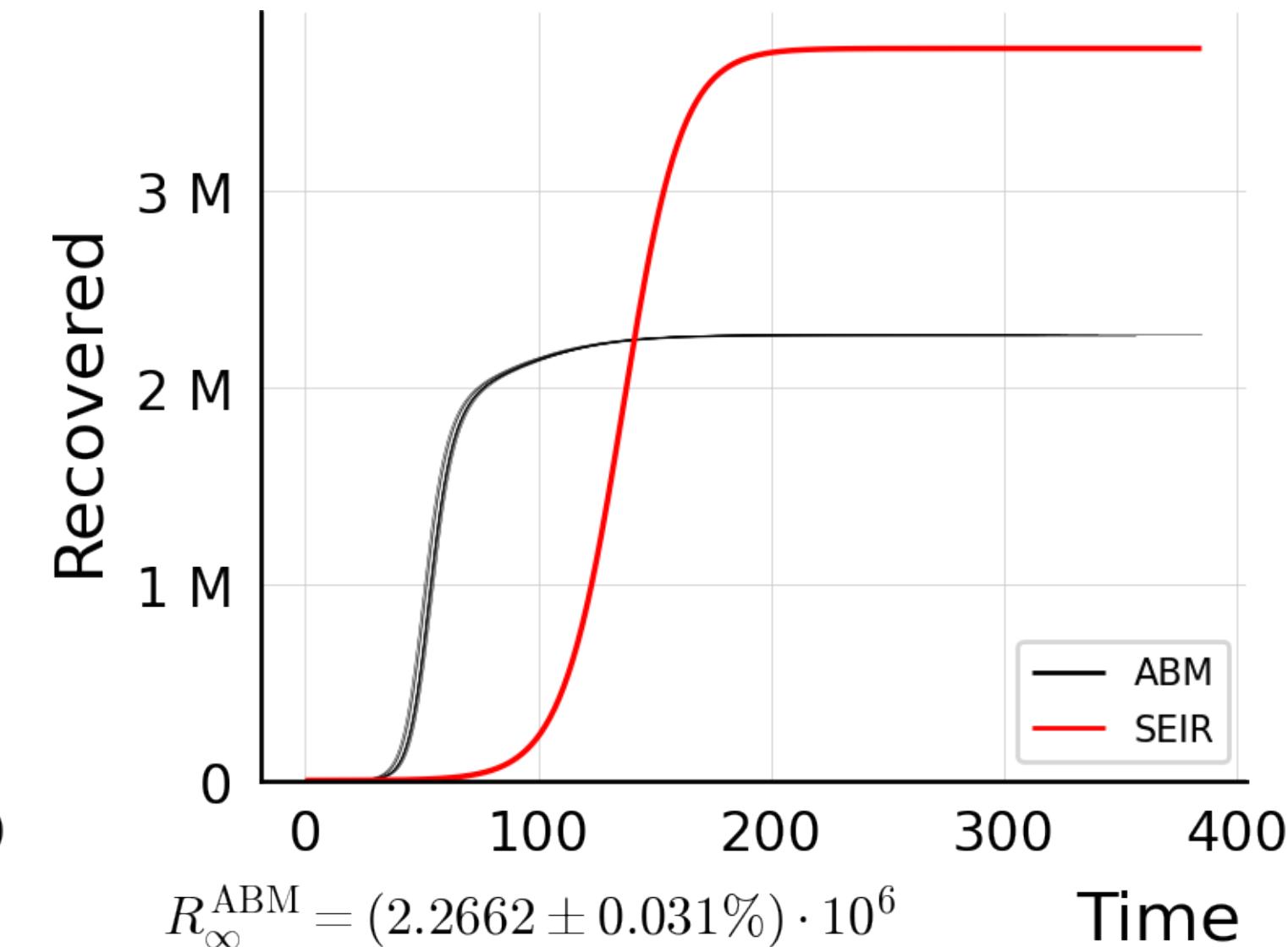
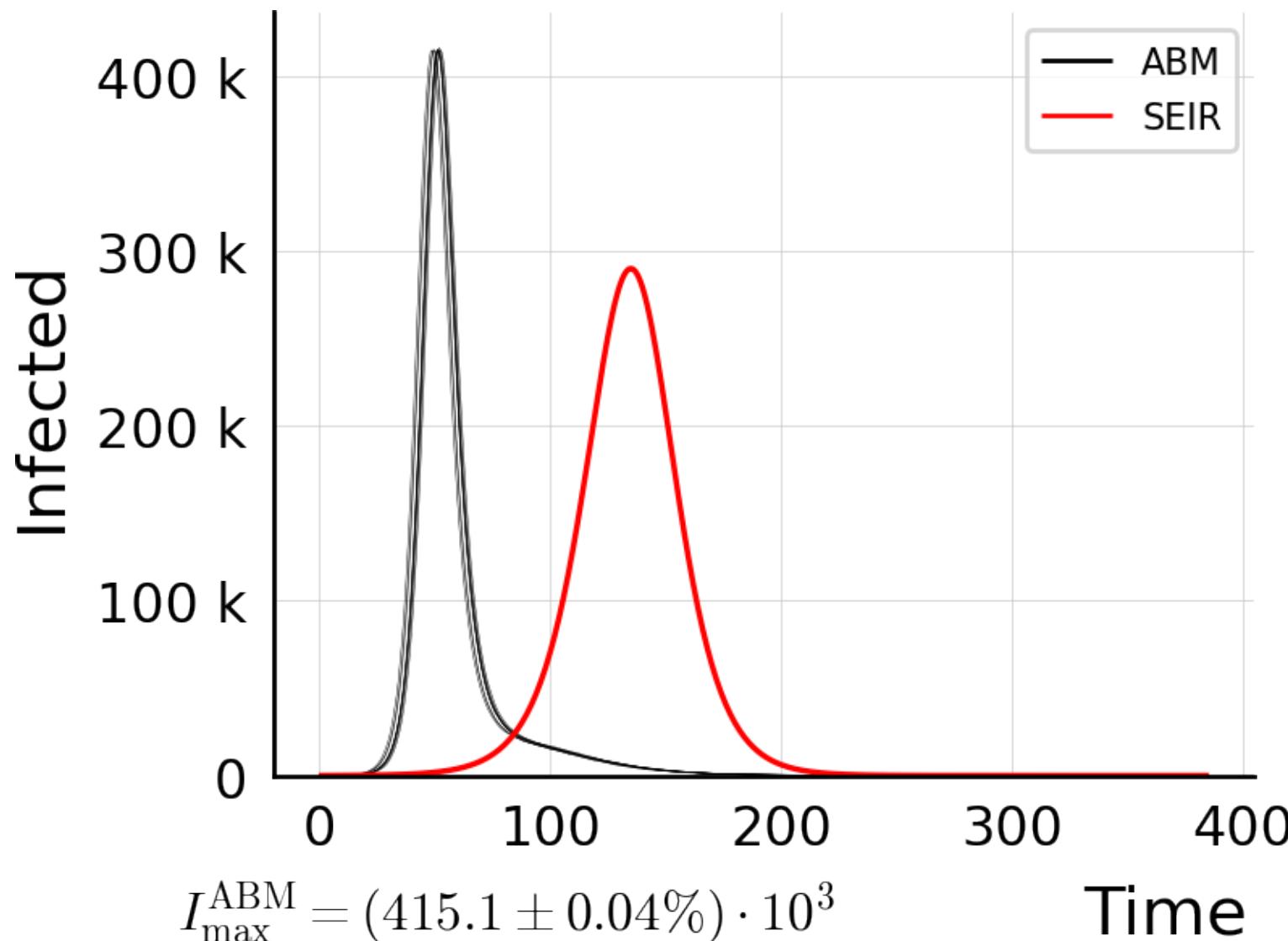
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.025$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



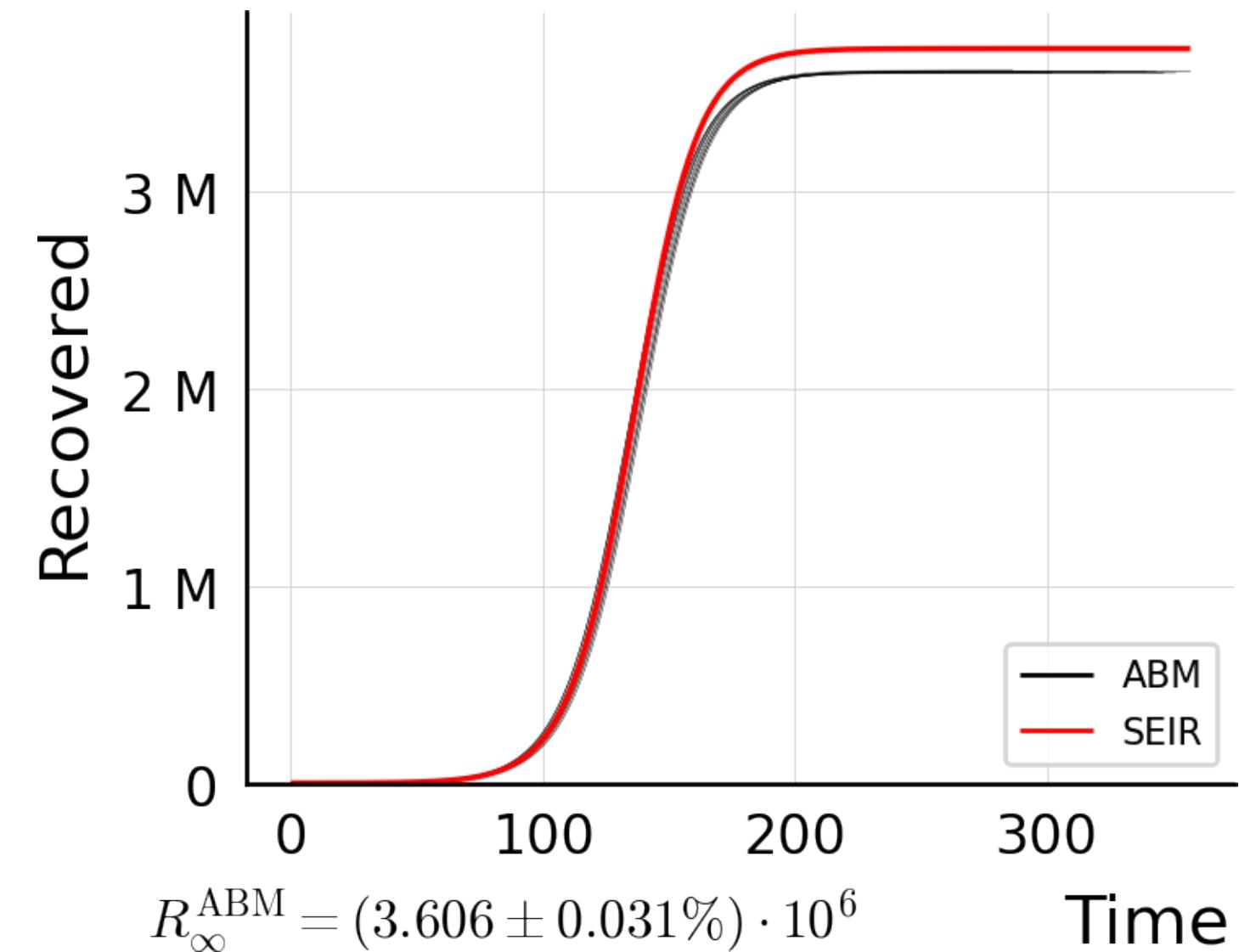
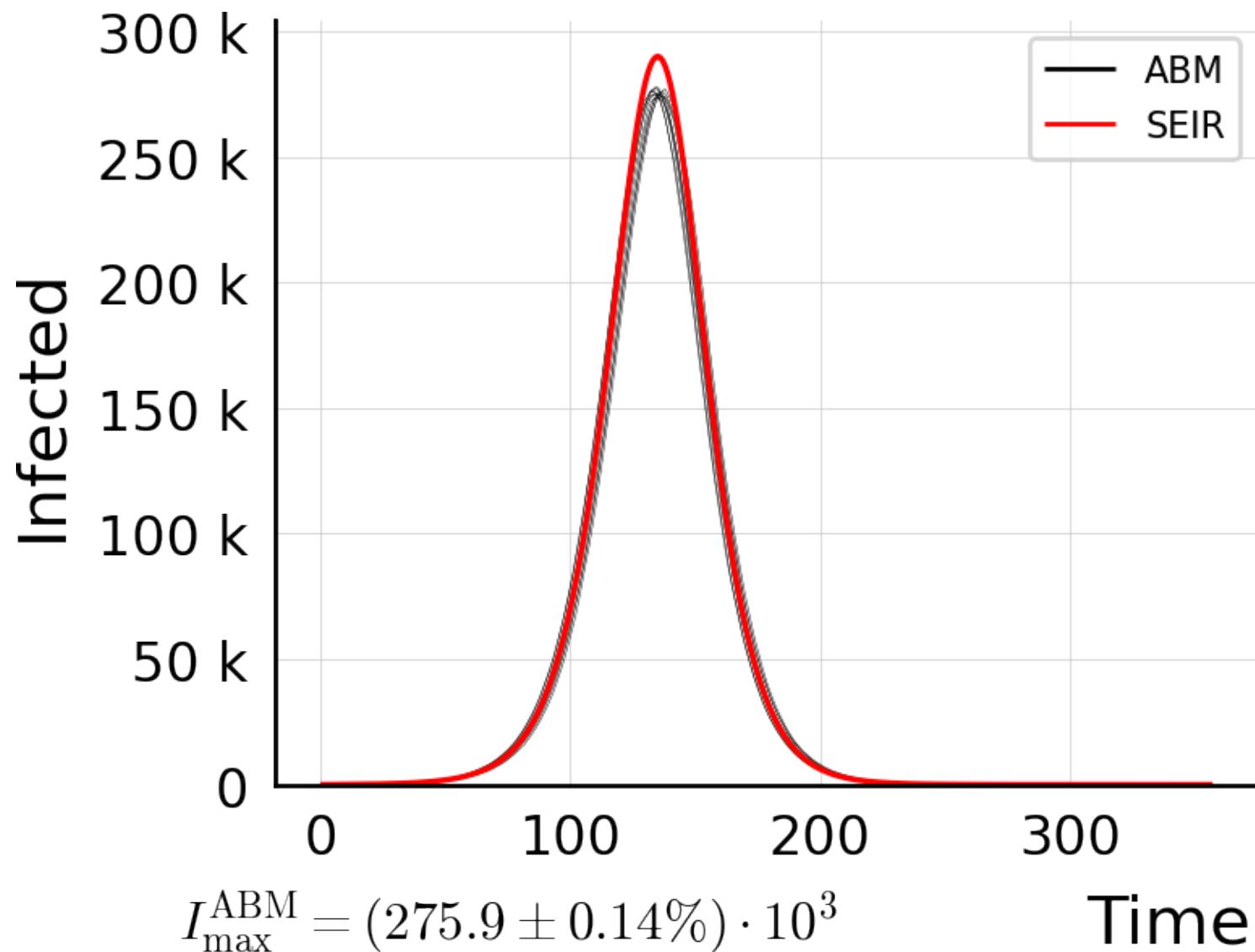
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.05$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



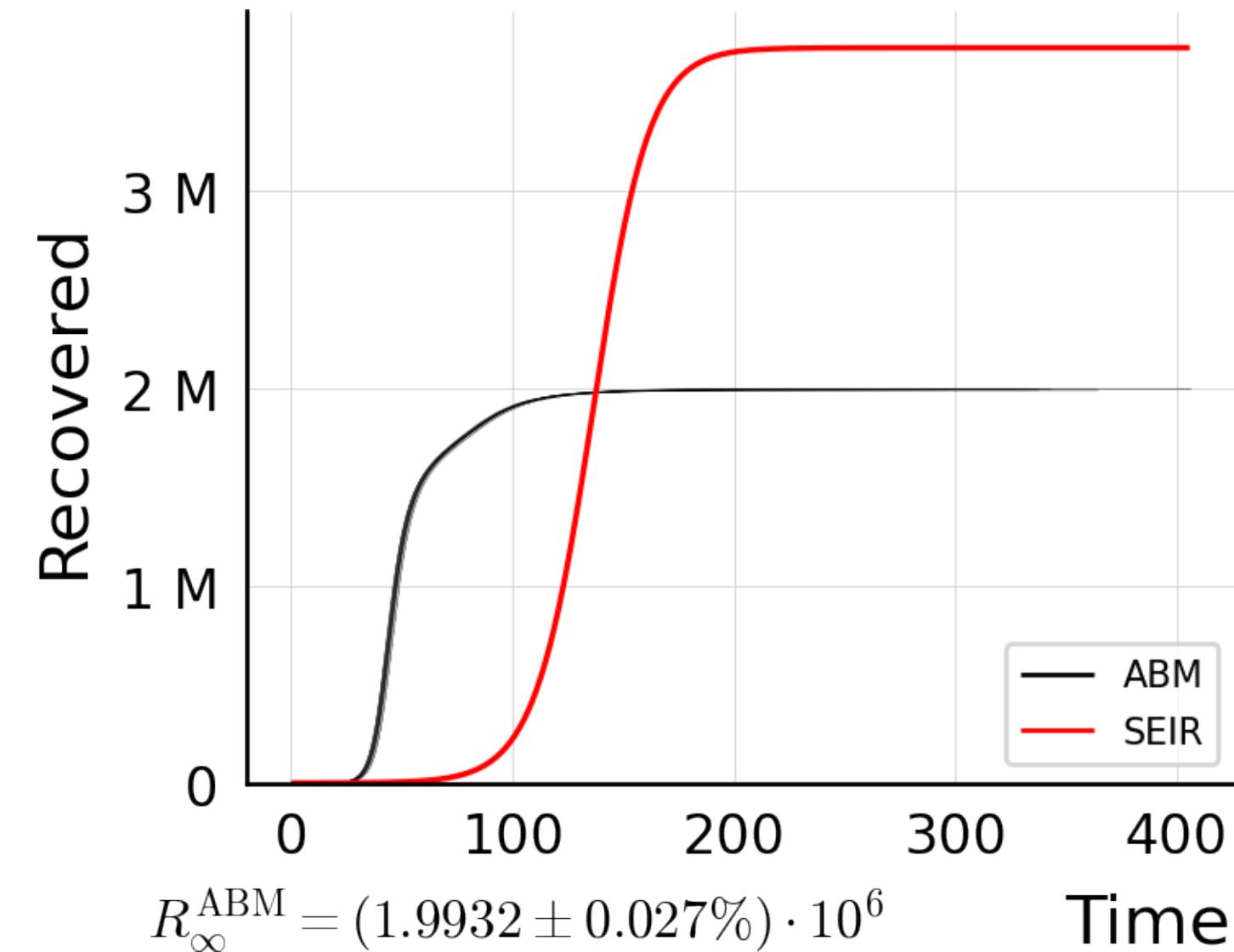
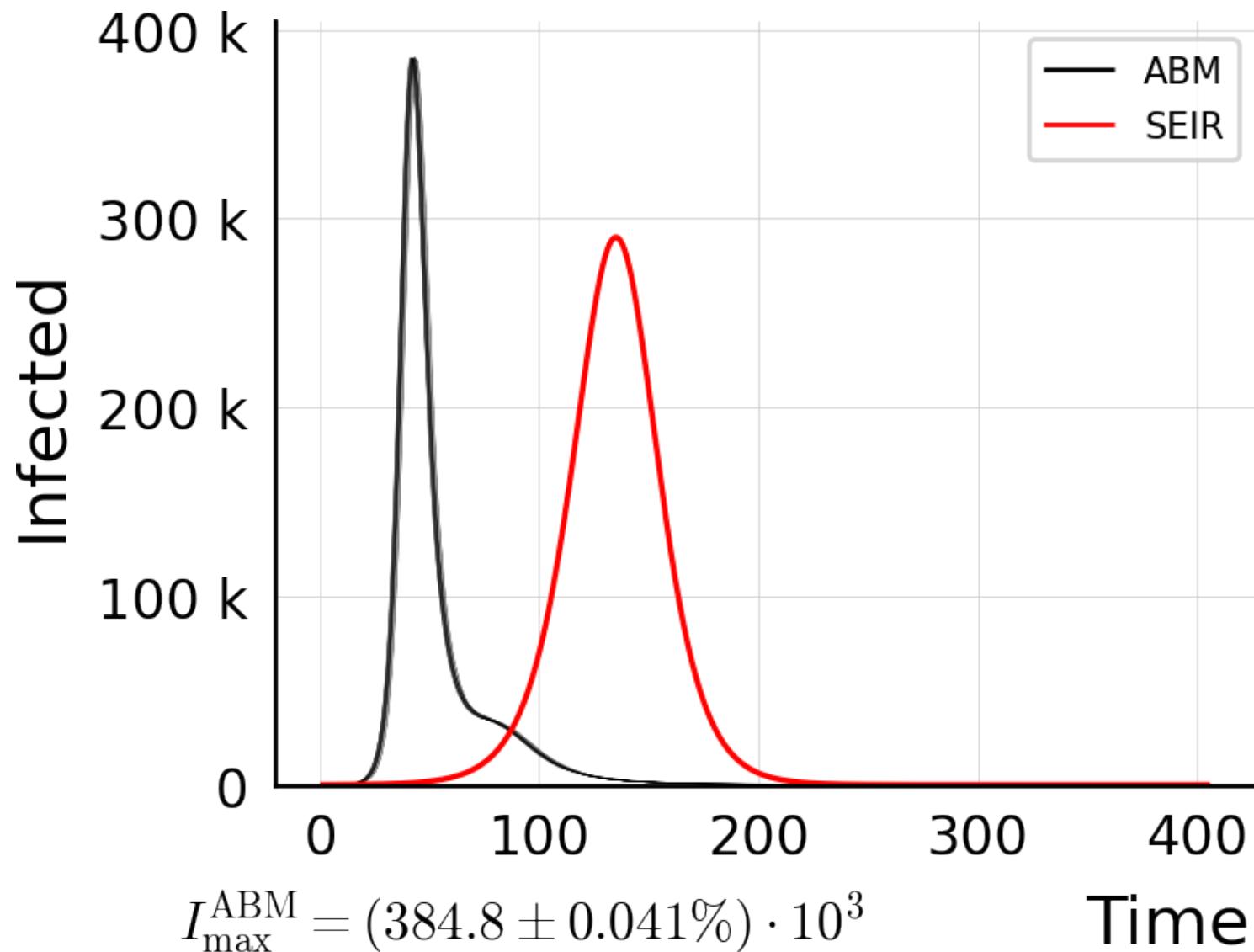
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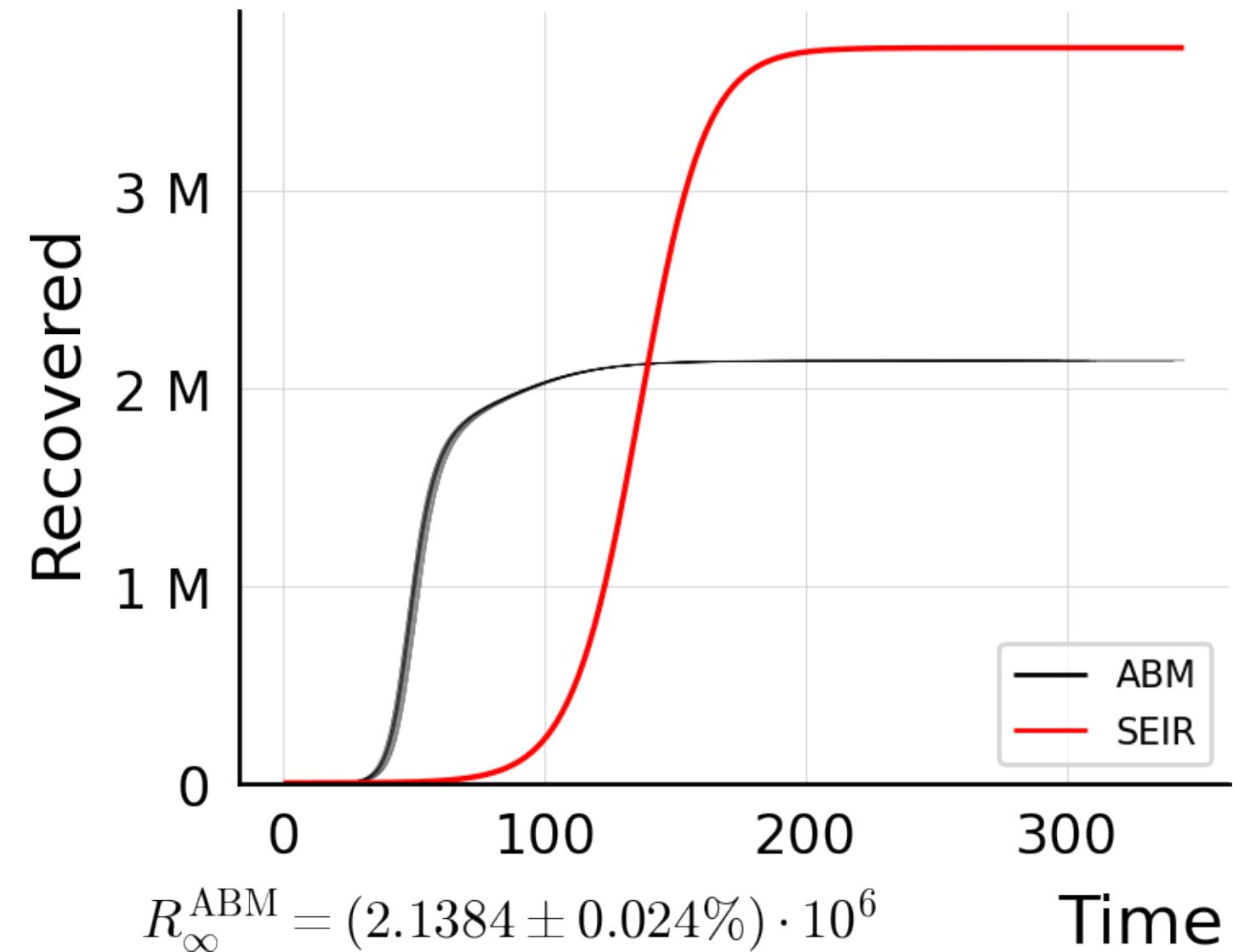
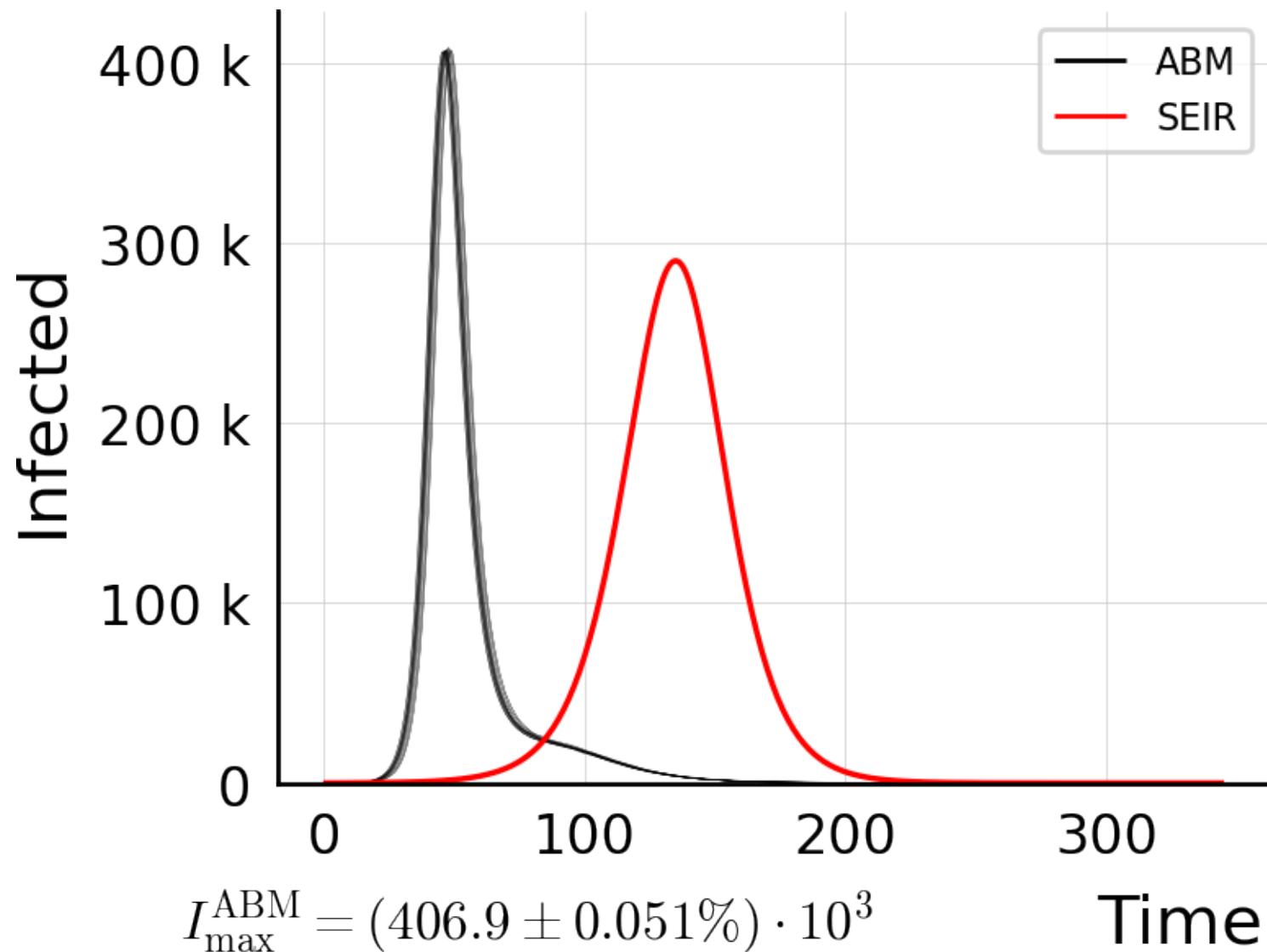
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



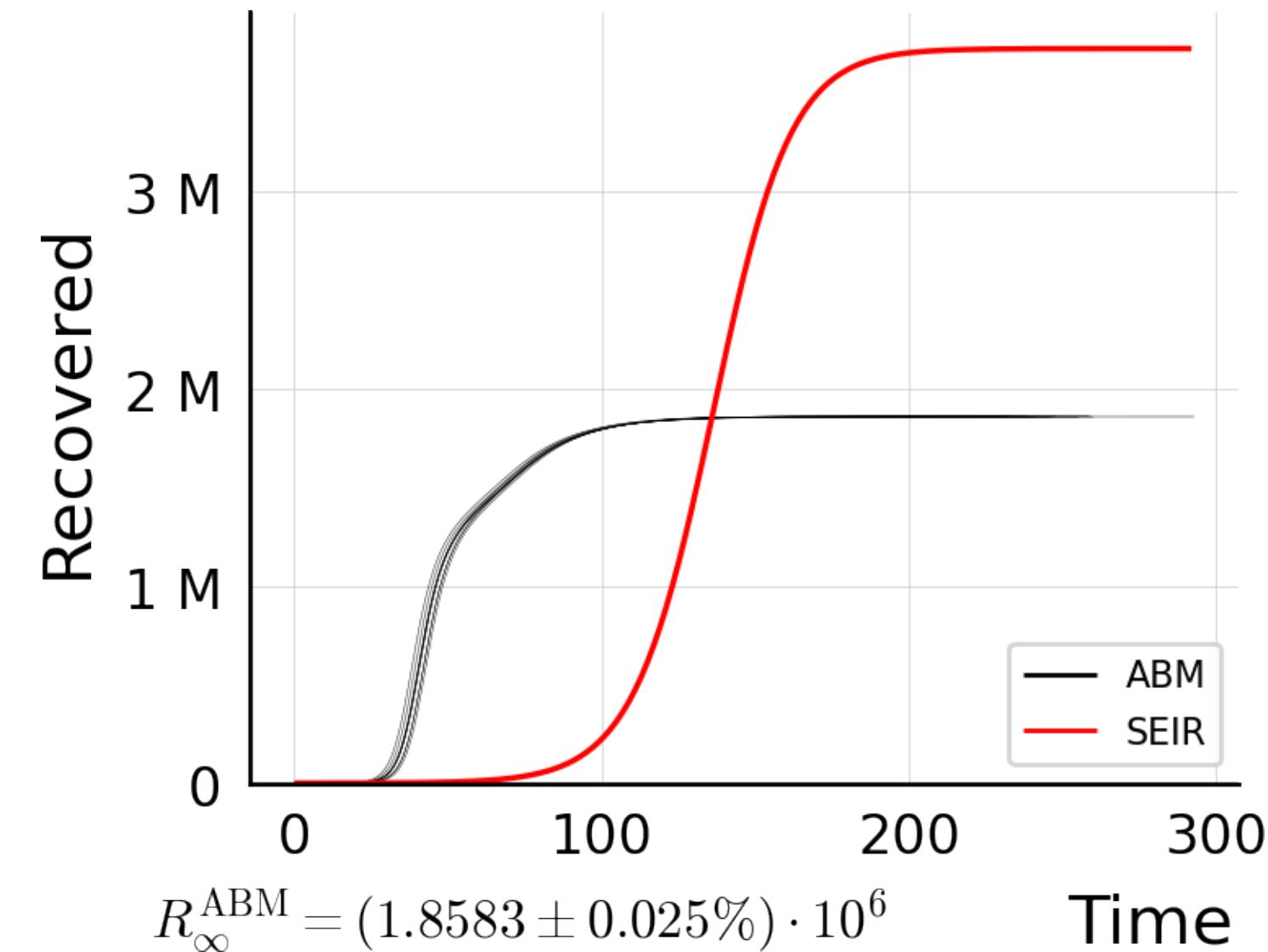
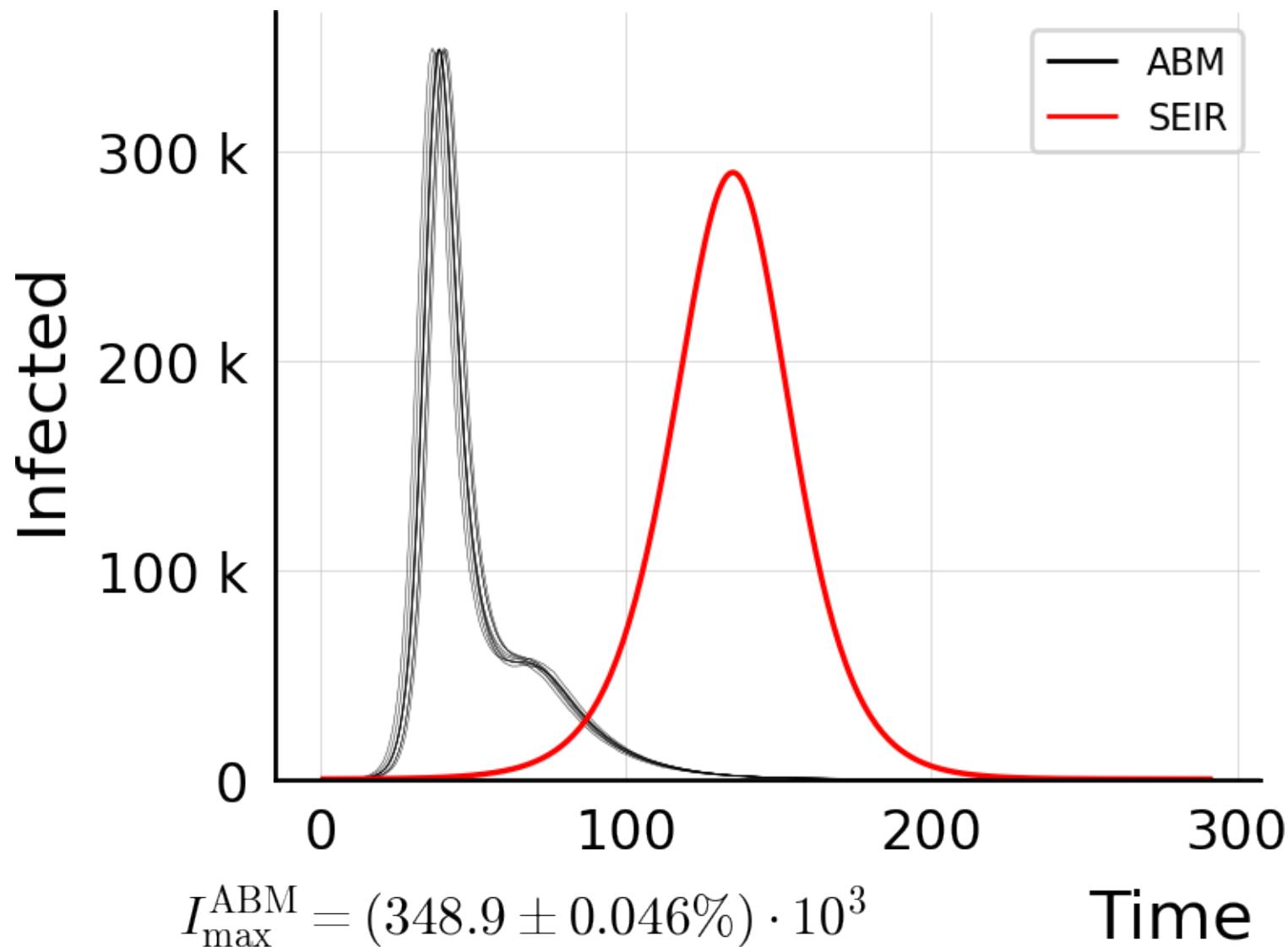
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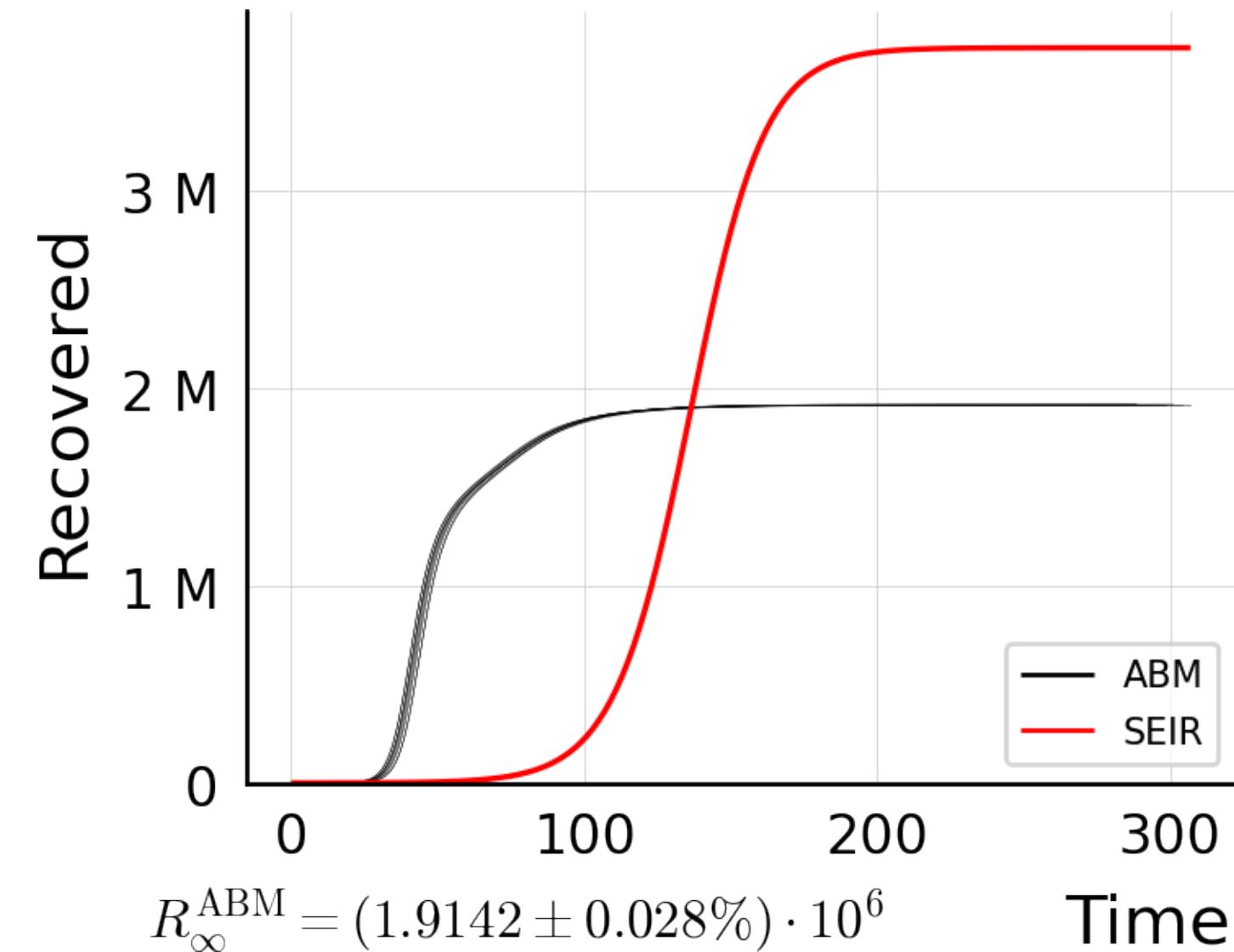
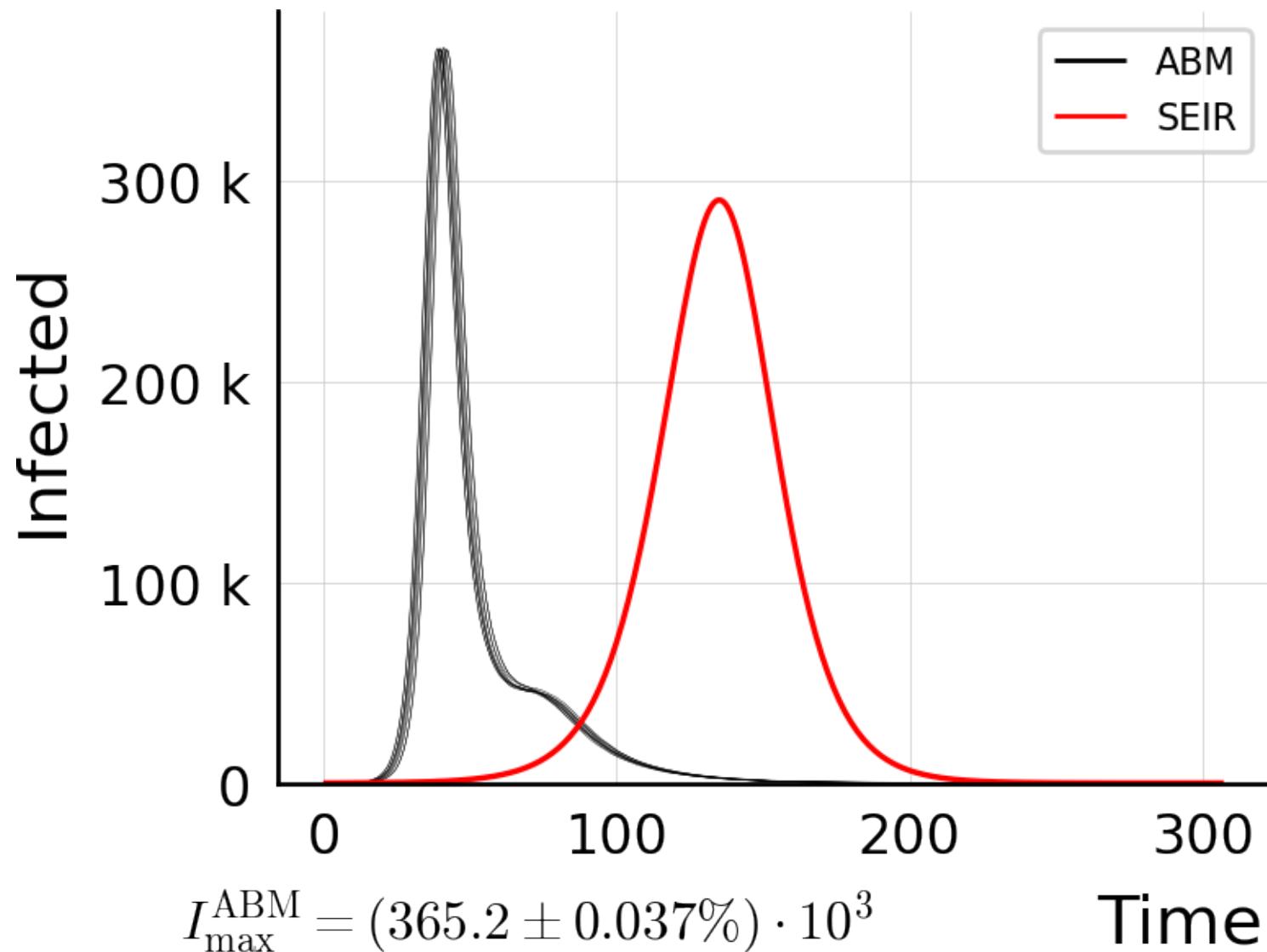
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



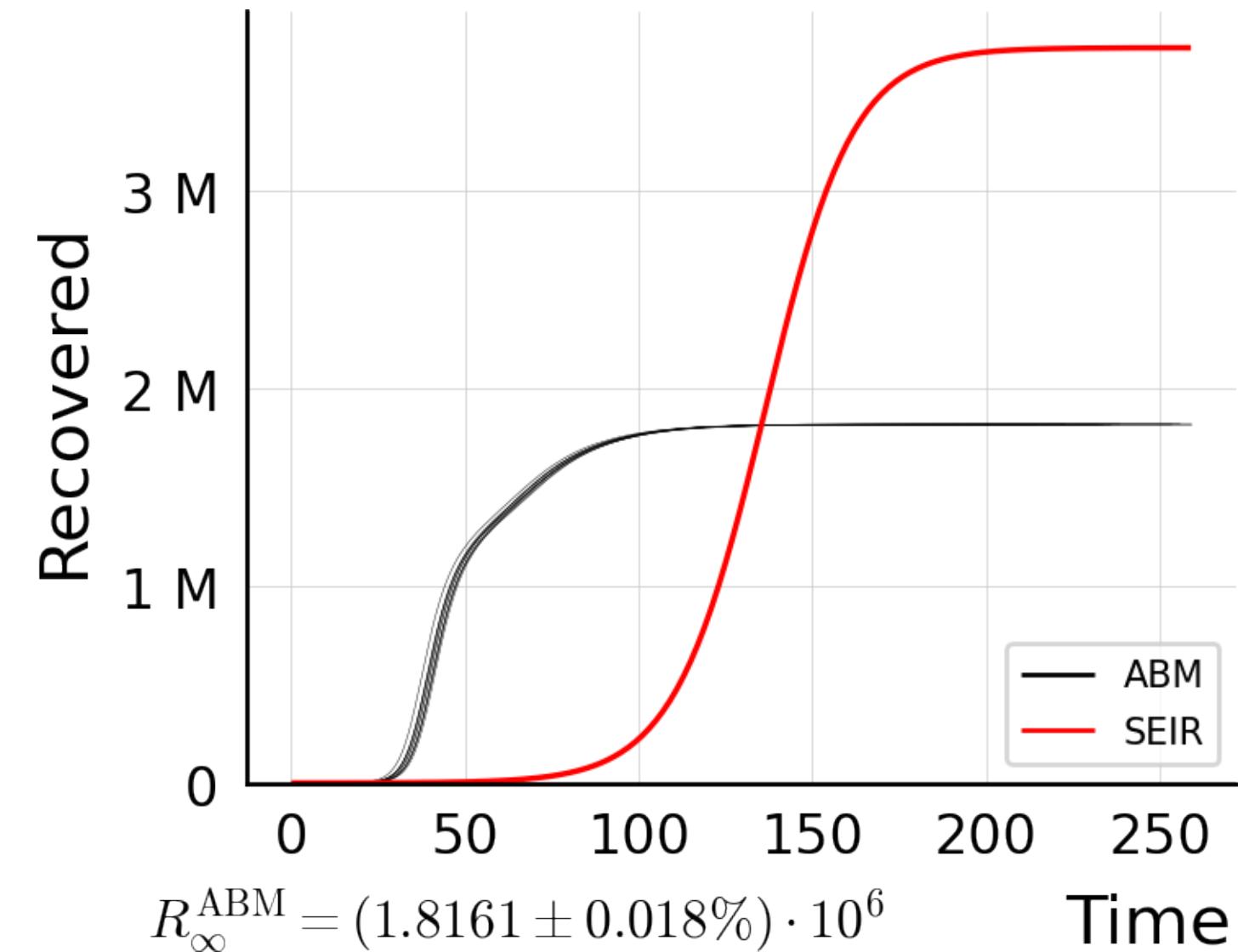
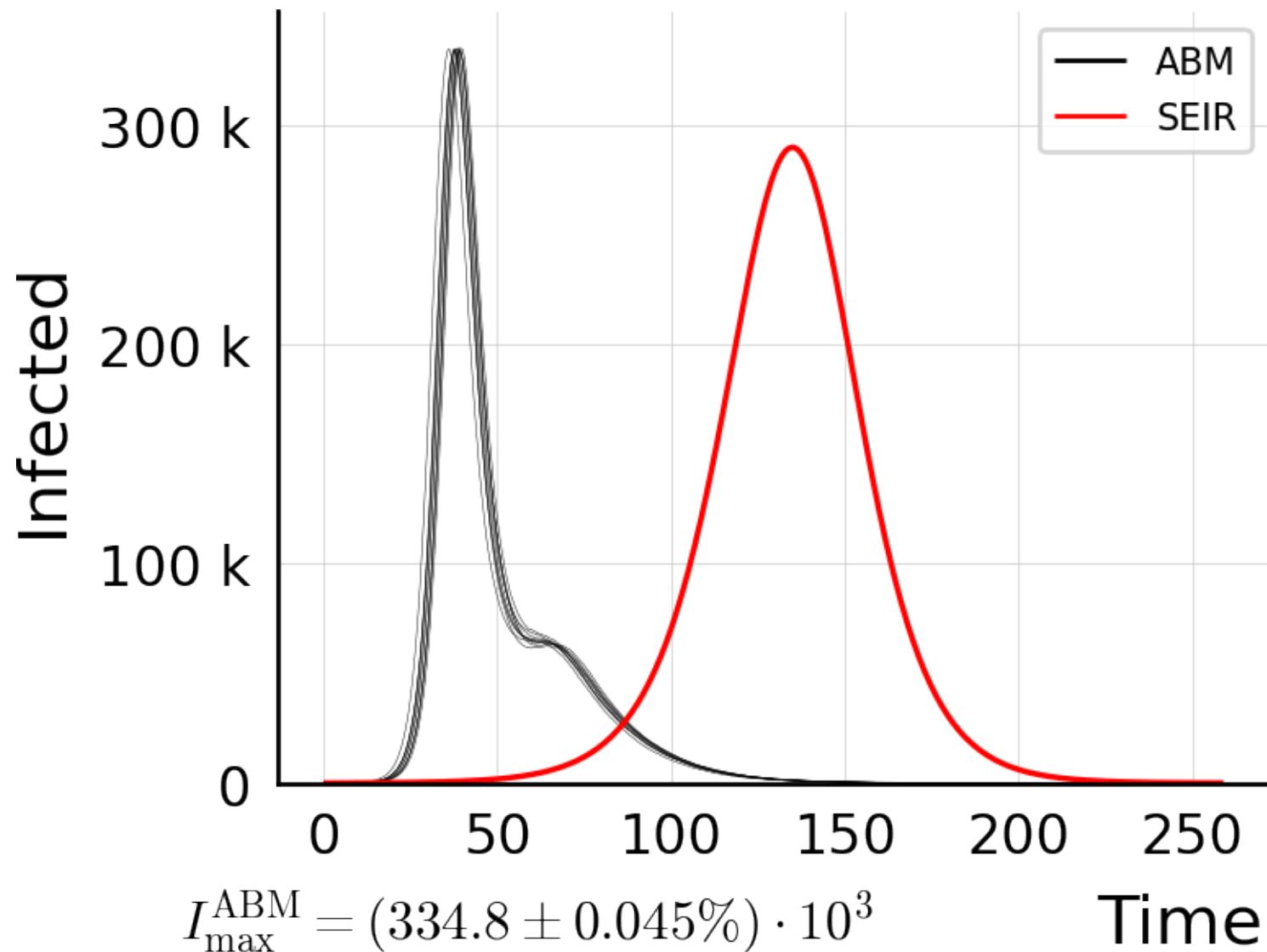
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.25$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



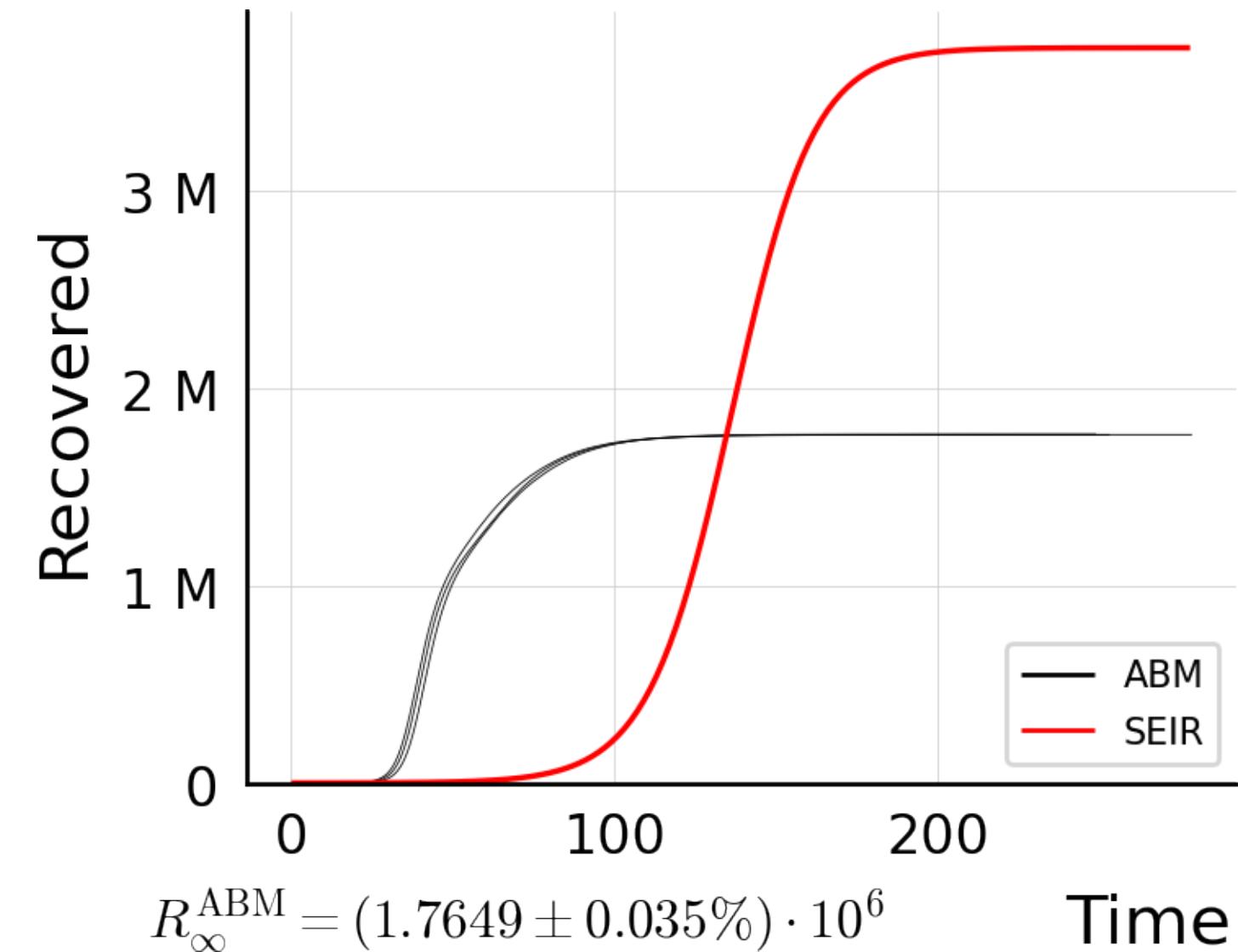
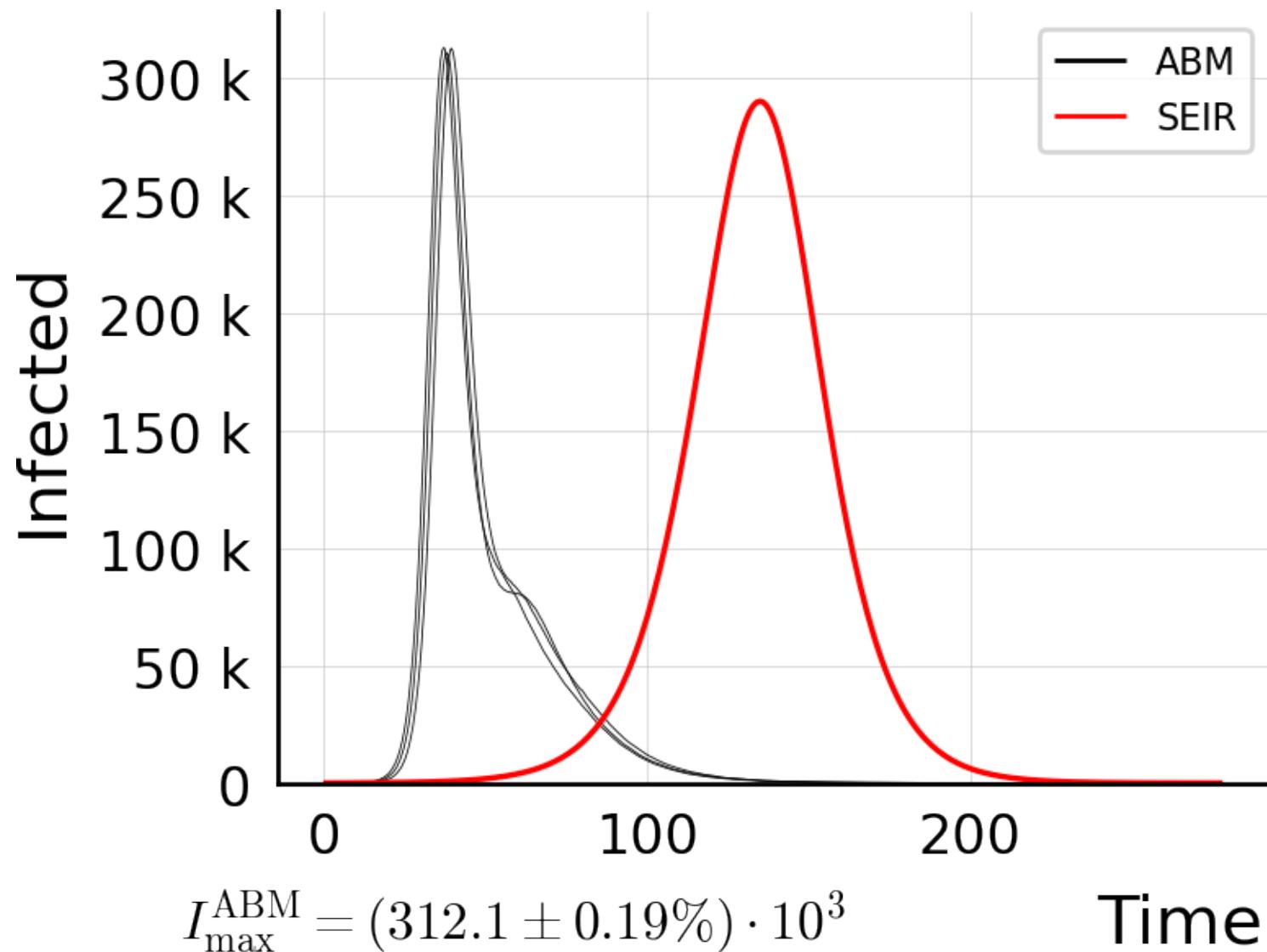
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.2$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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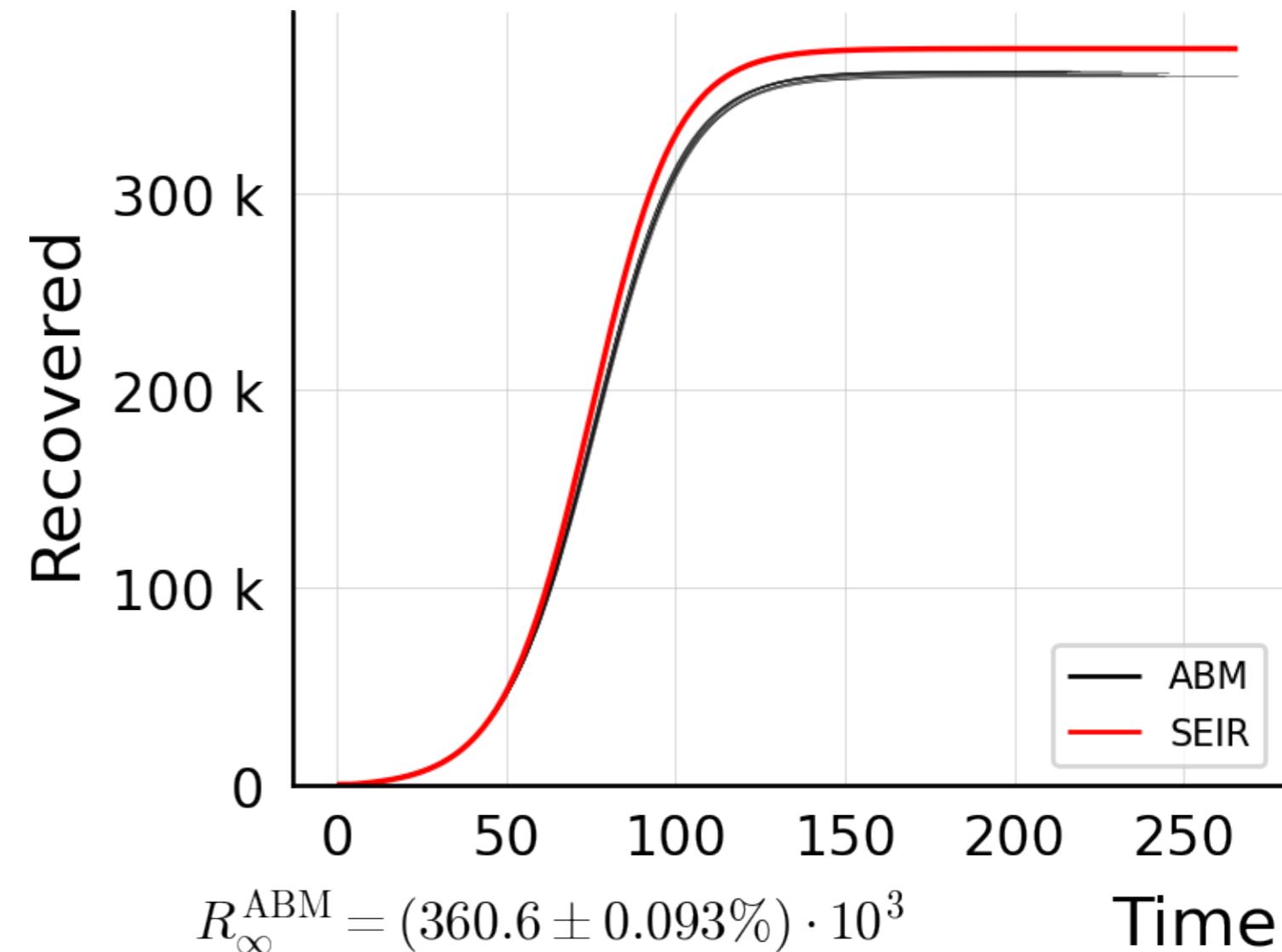
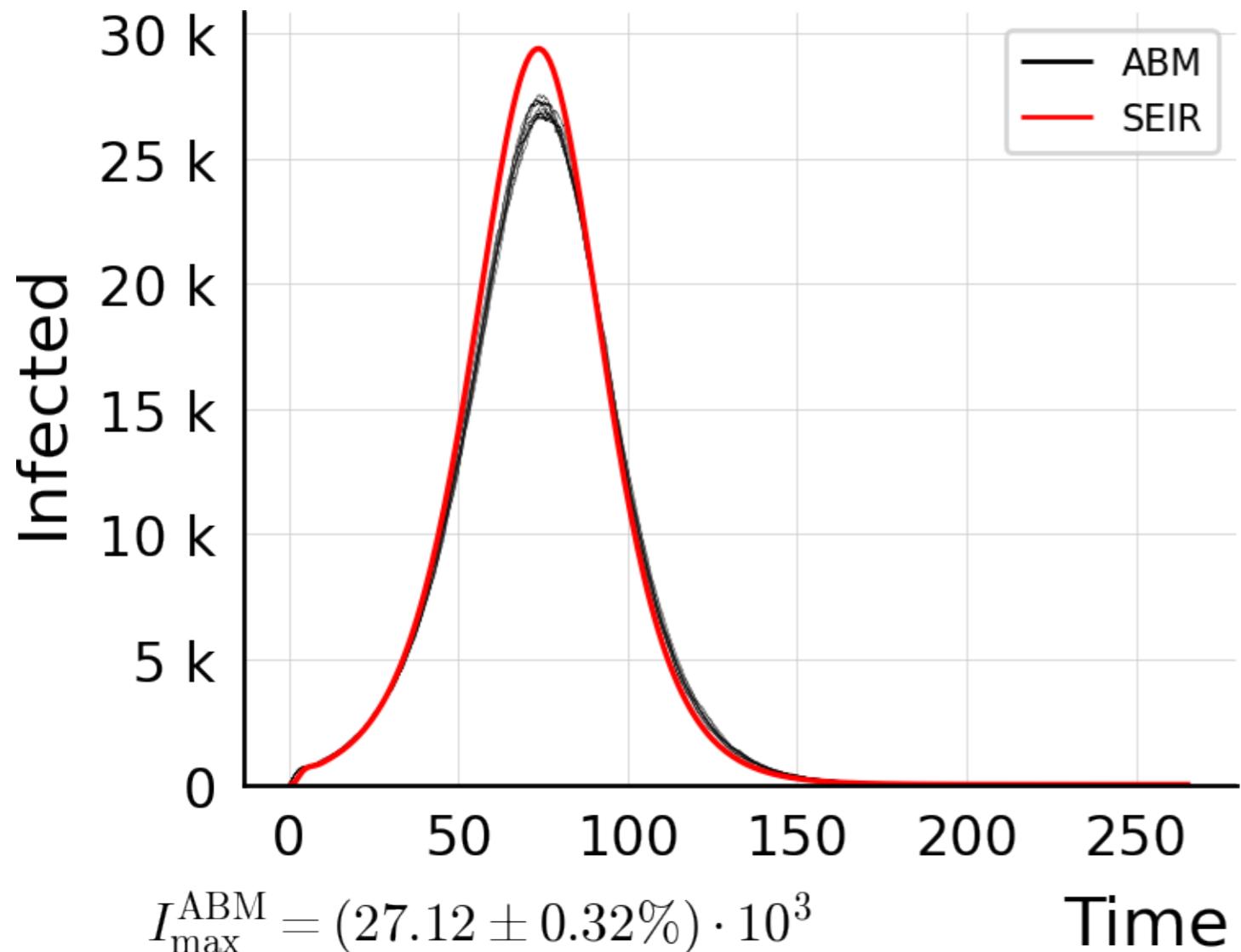
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.3$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



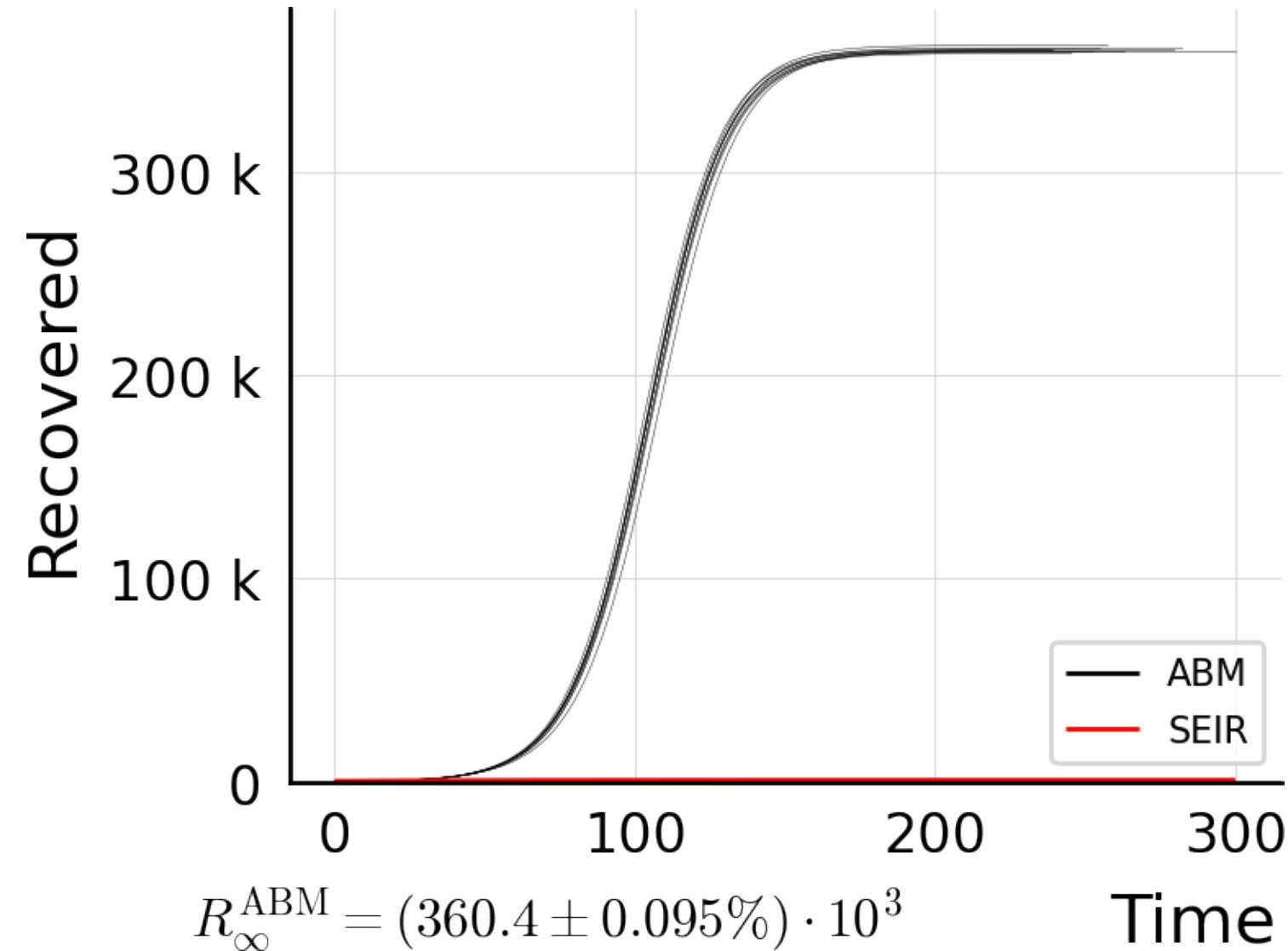
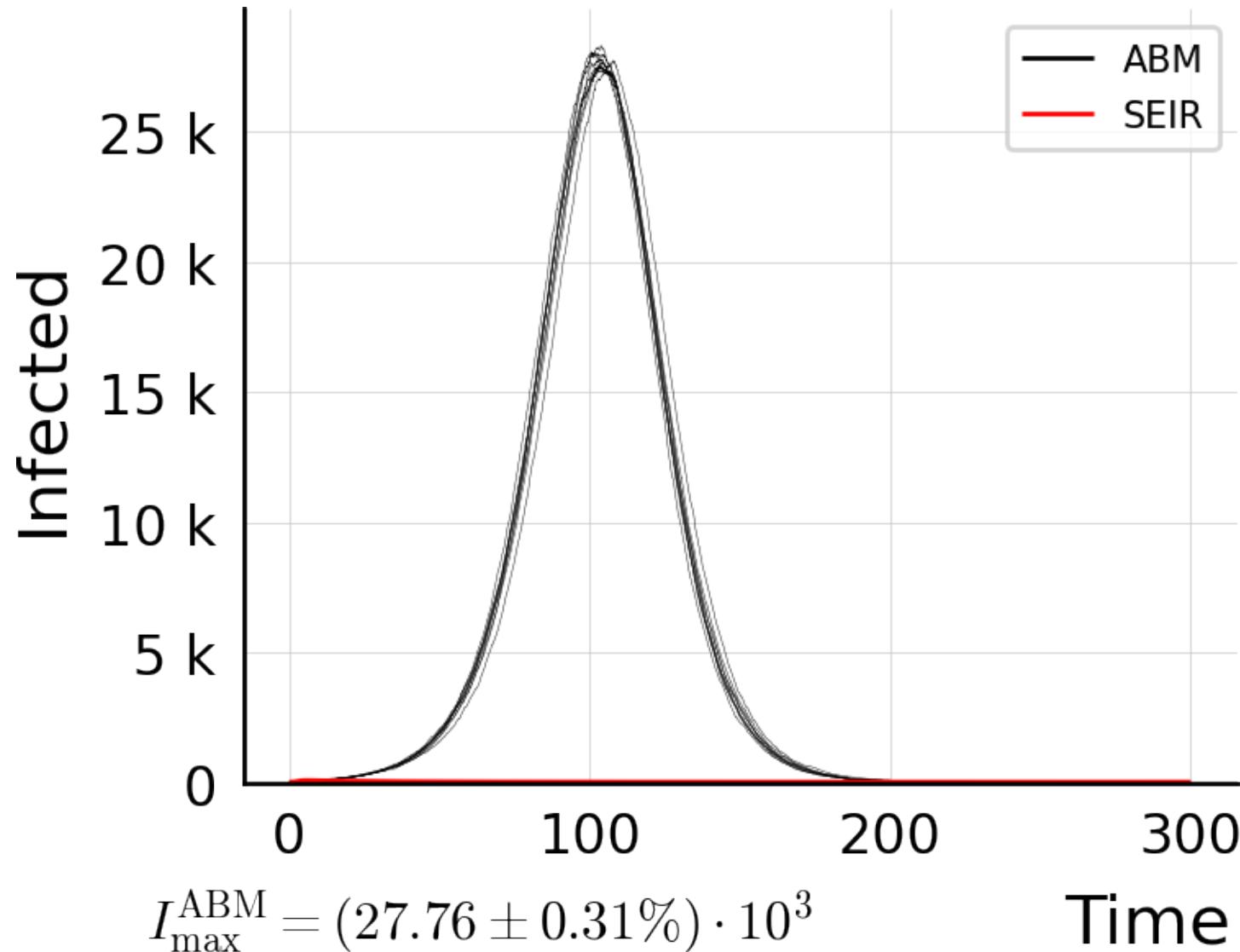
$N_{\text{tot}} = 5.8M$, $N_{\text{init}} = 100$, $\rho = 0.4$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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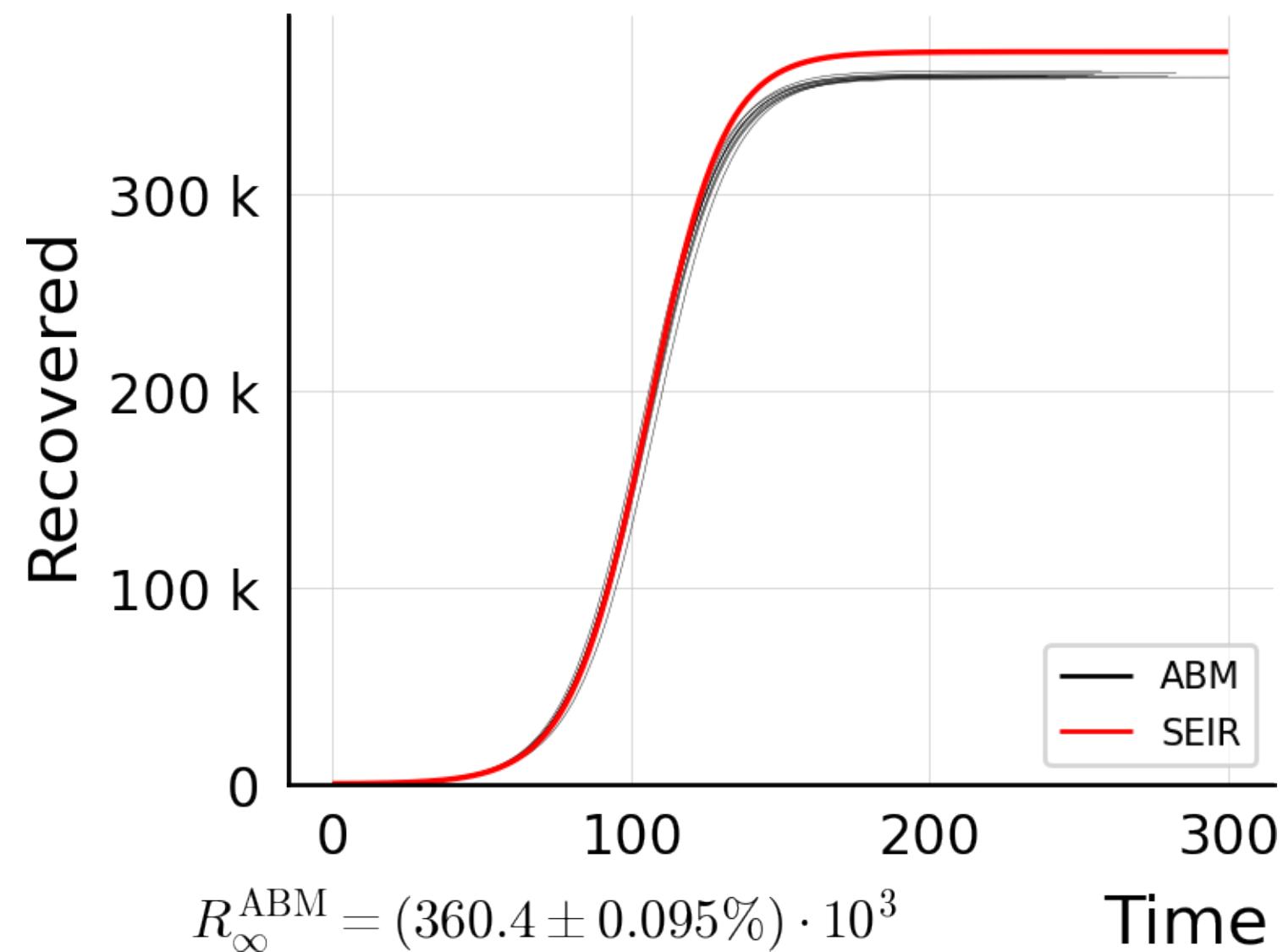
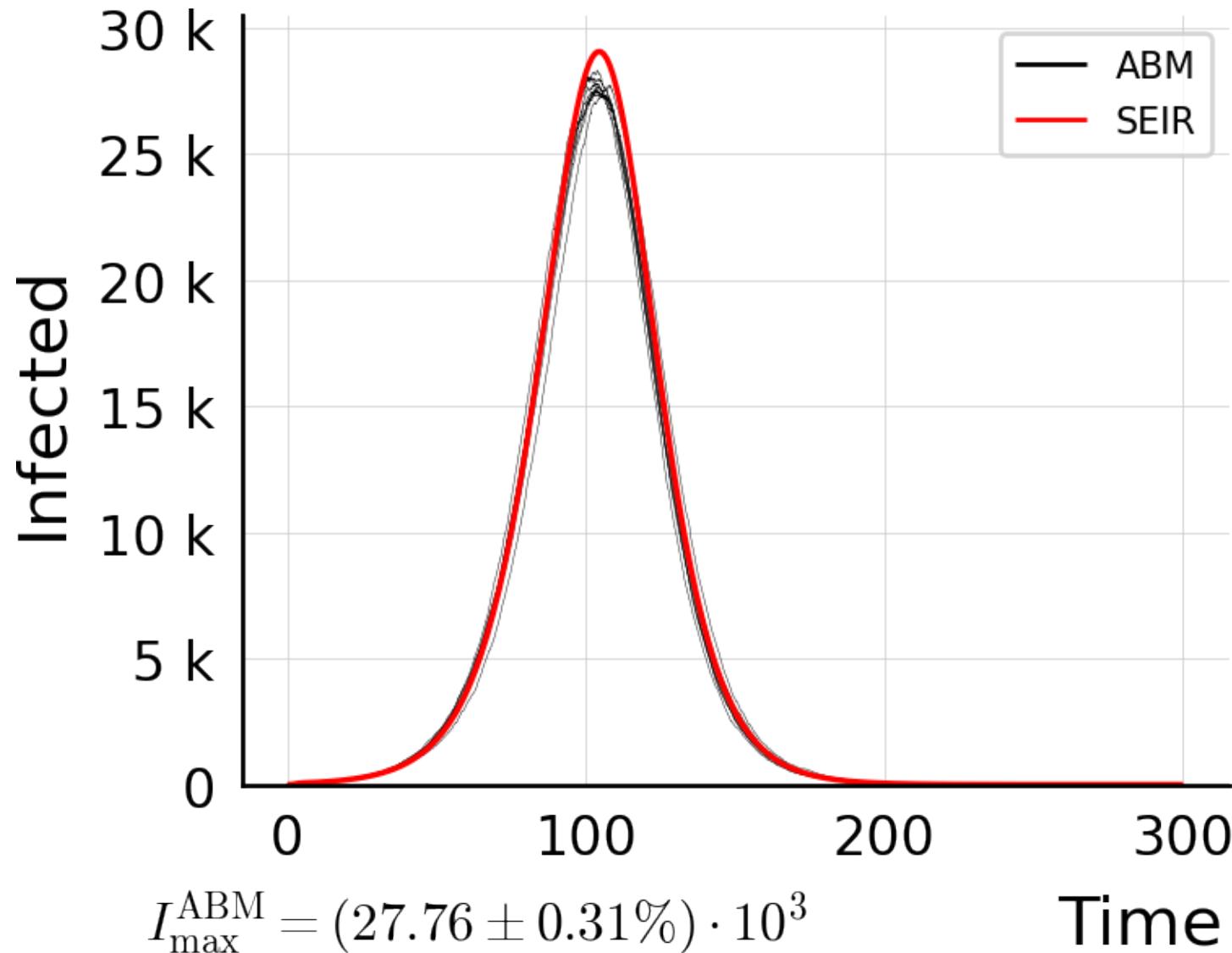
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 1K$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



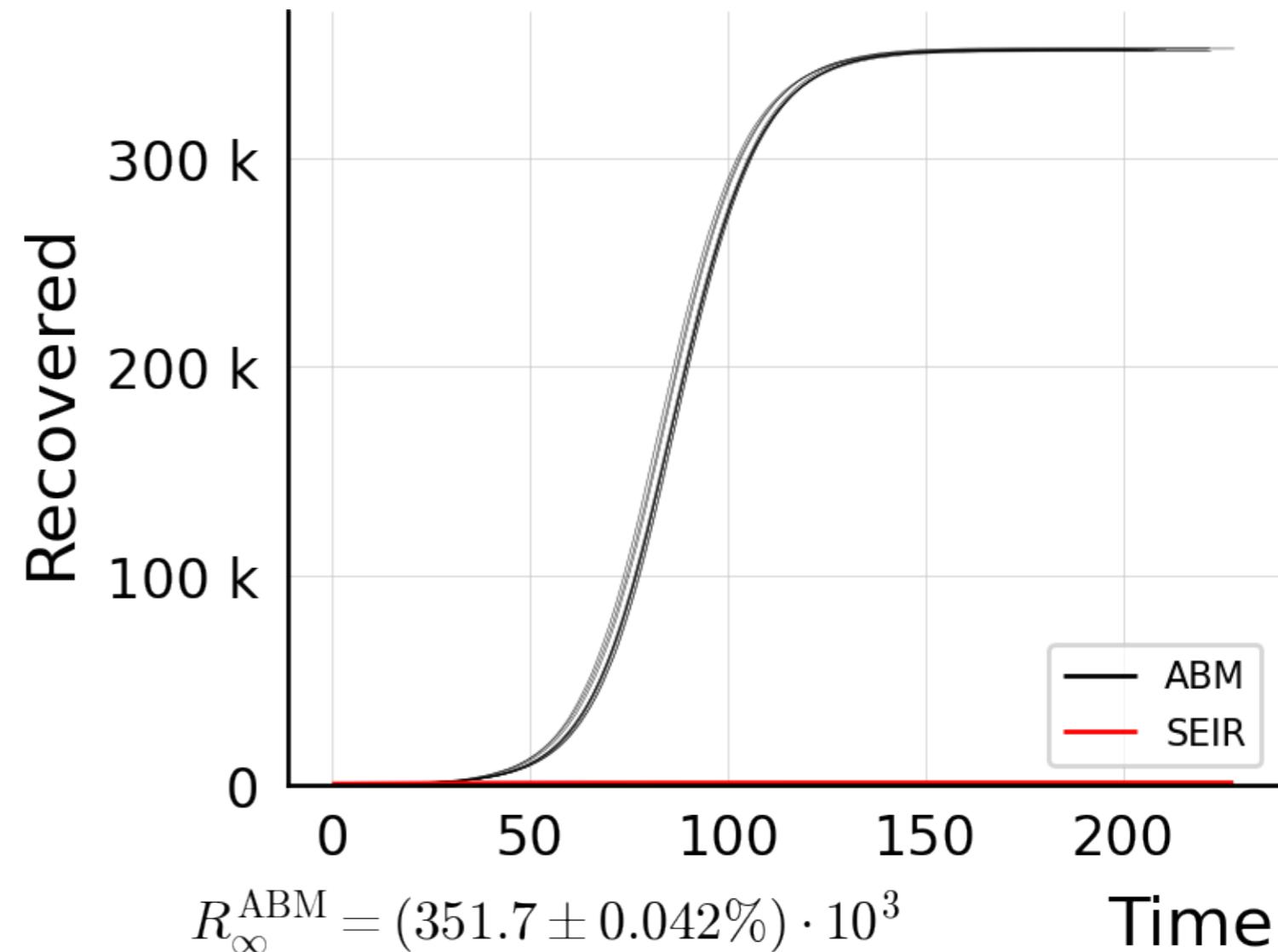
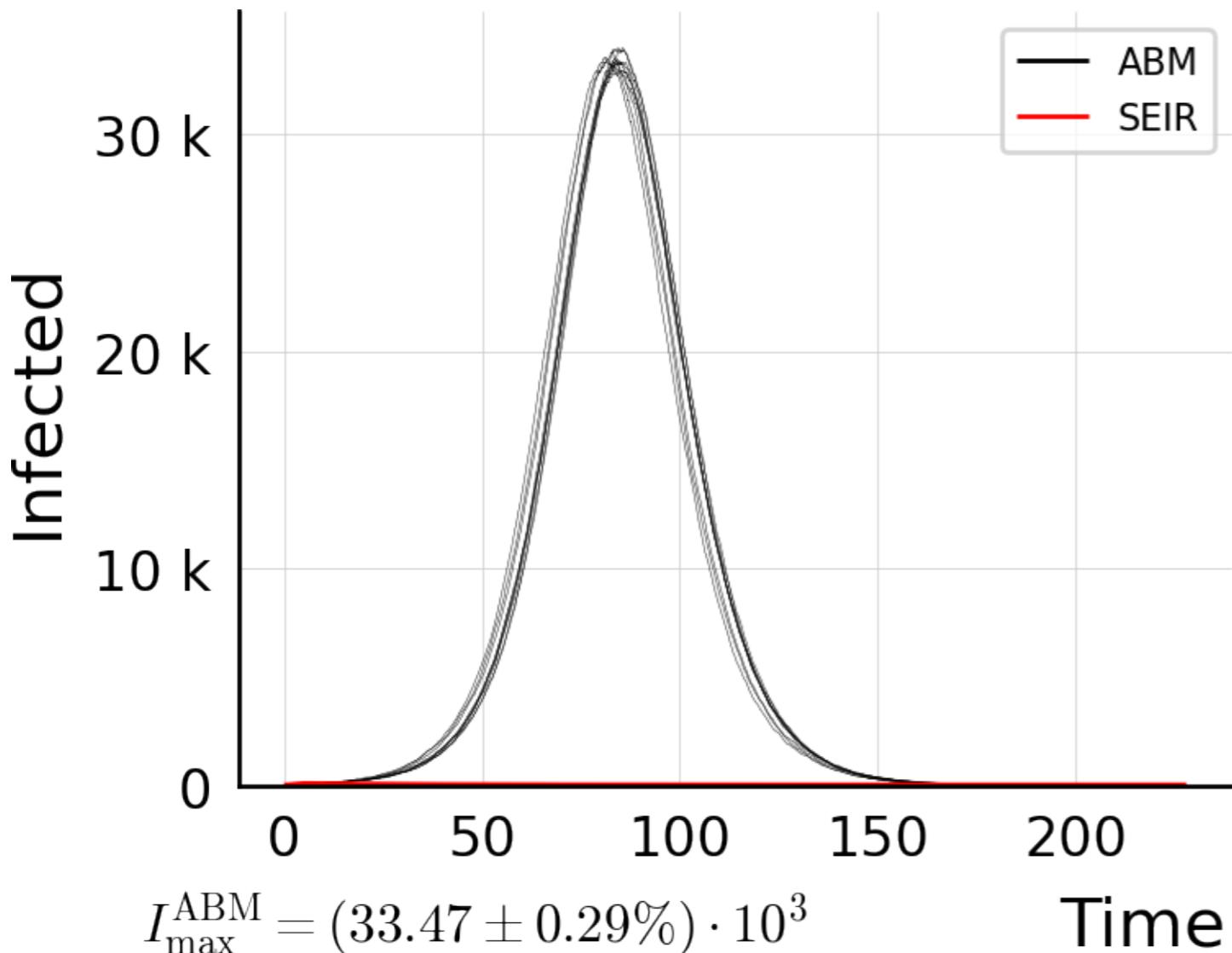
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.005$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
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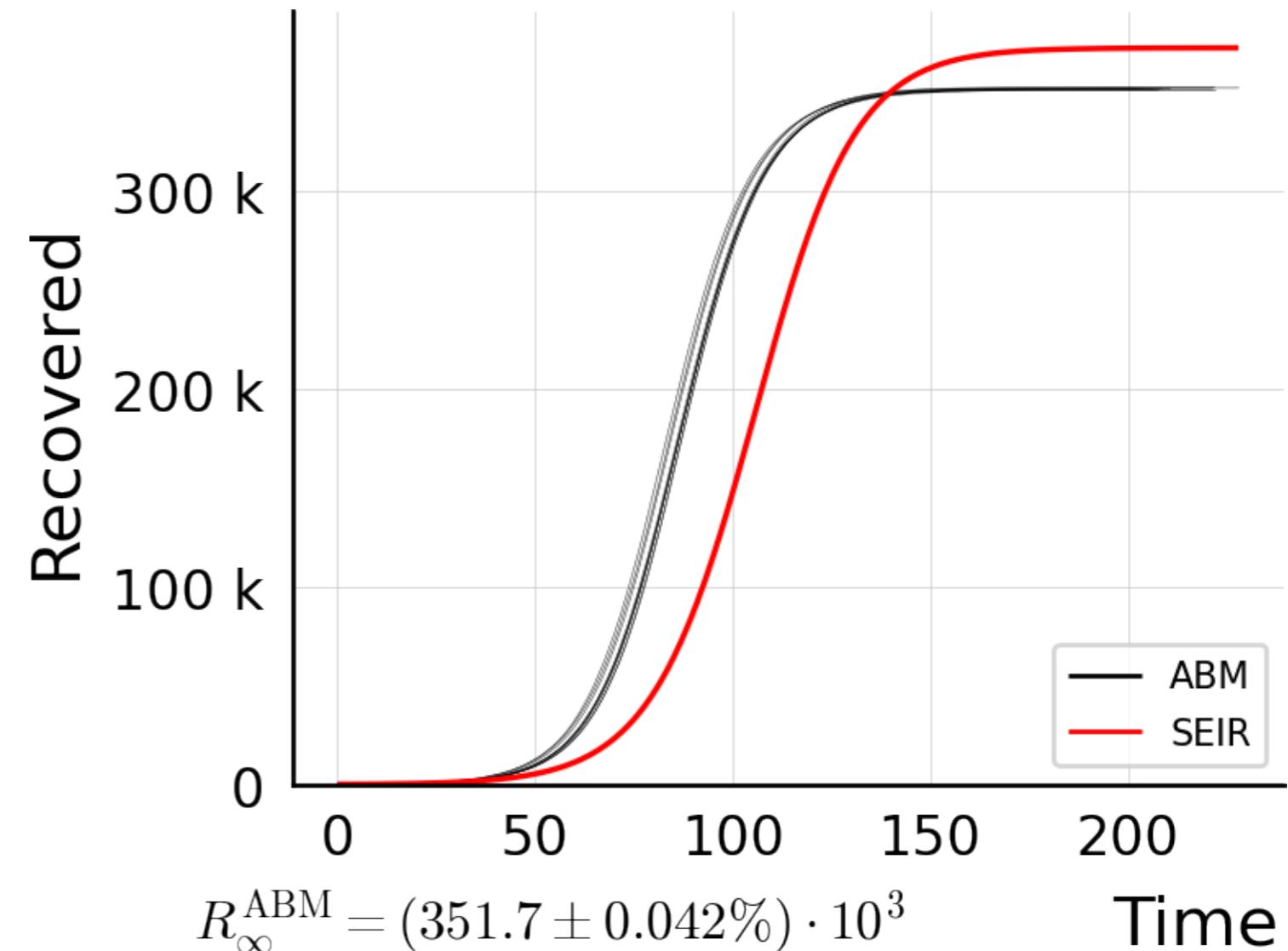
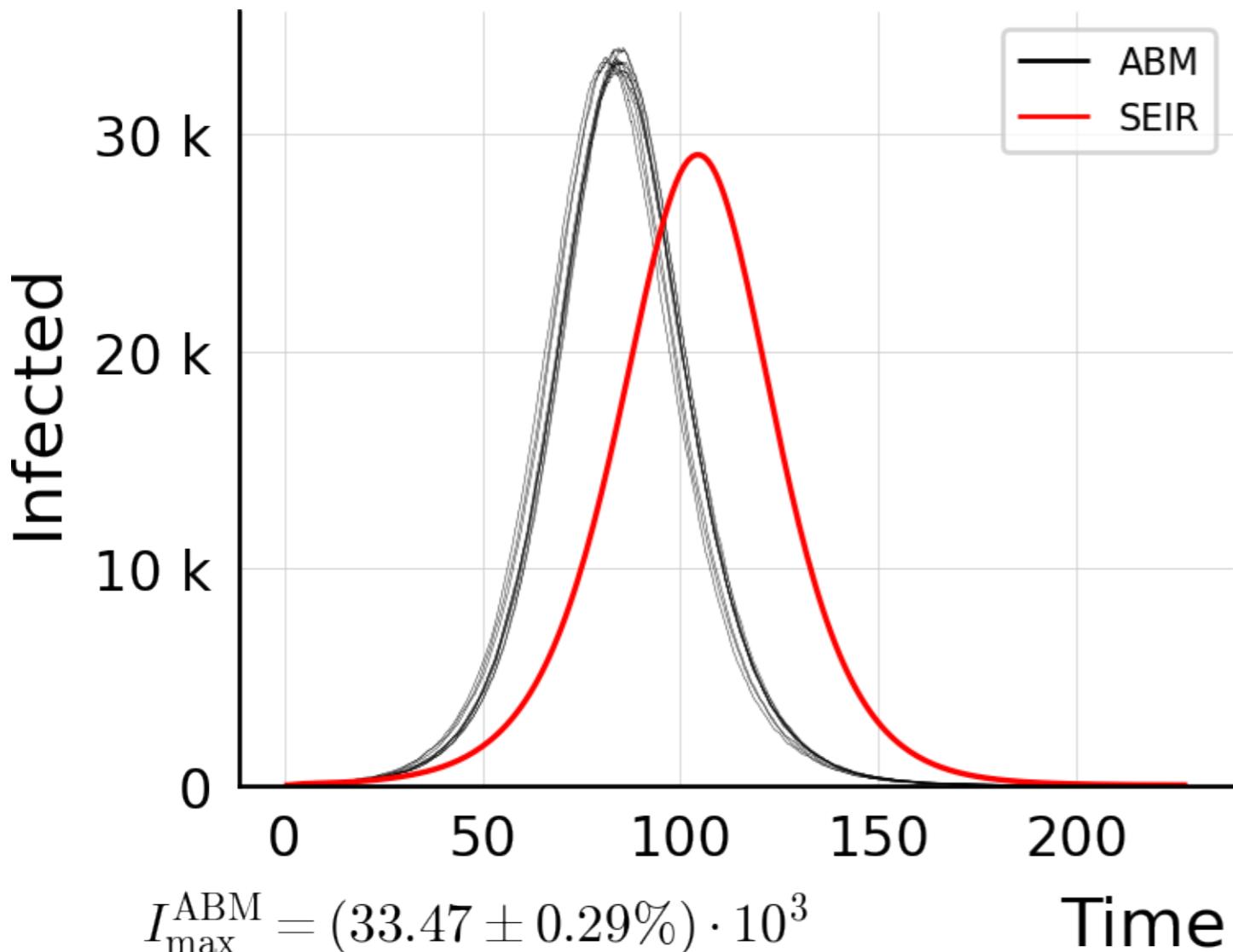
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.005$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



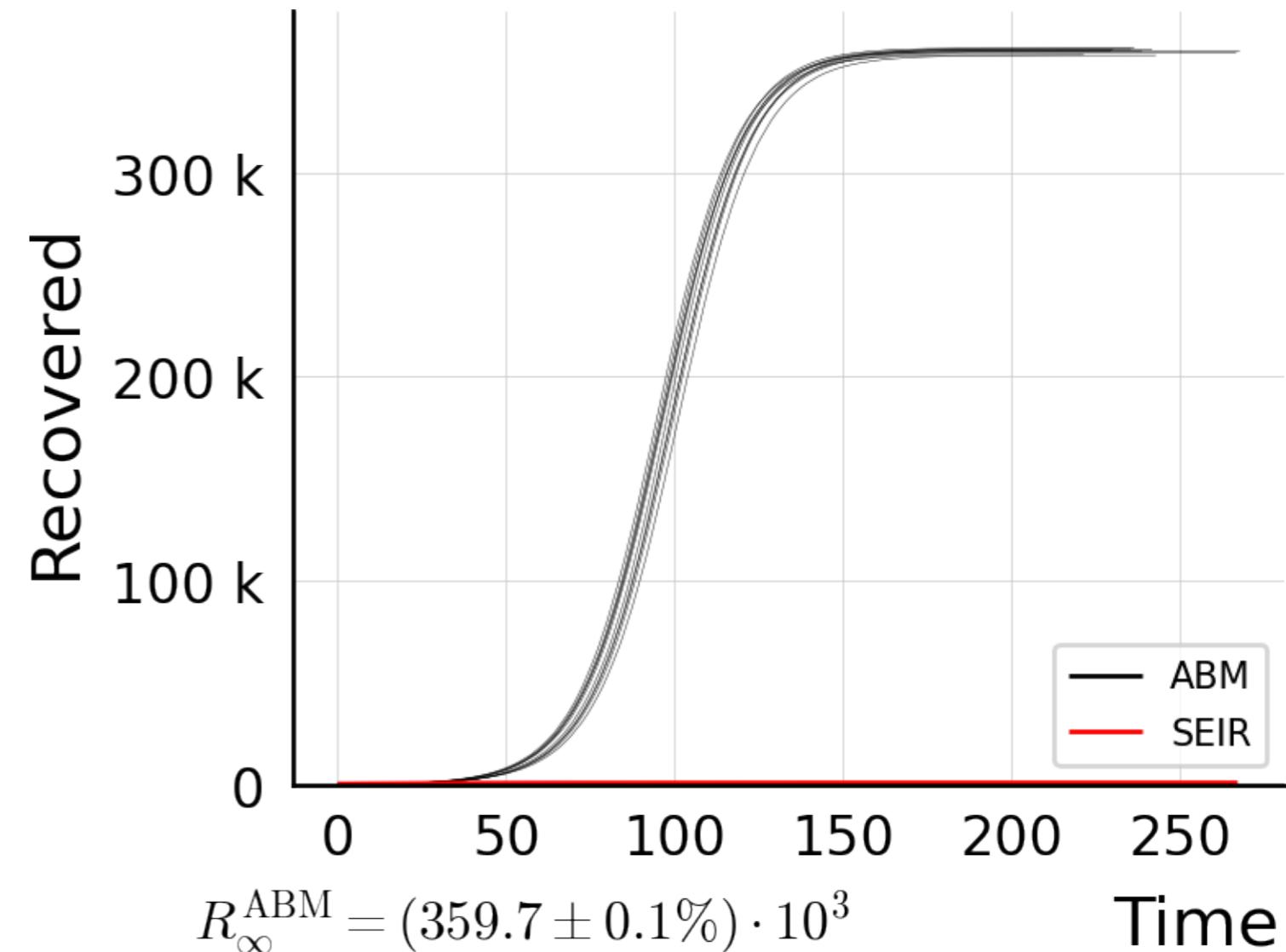
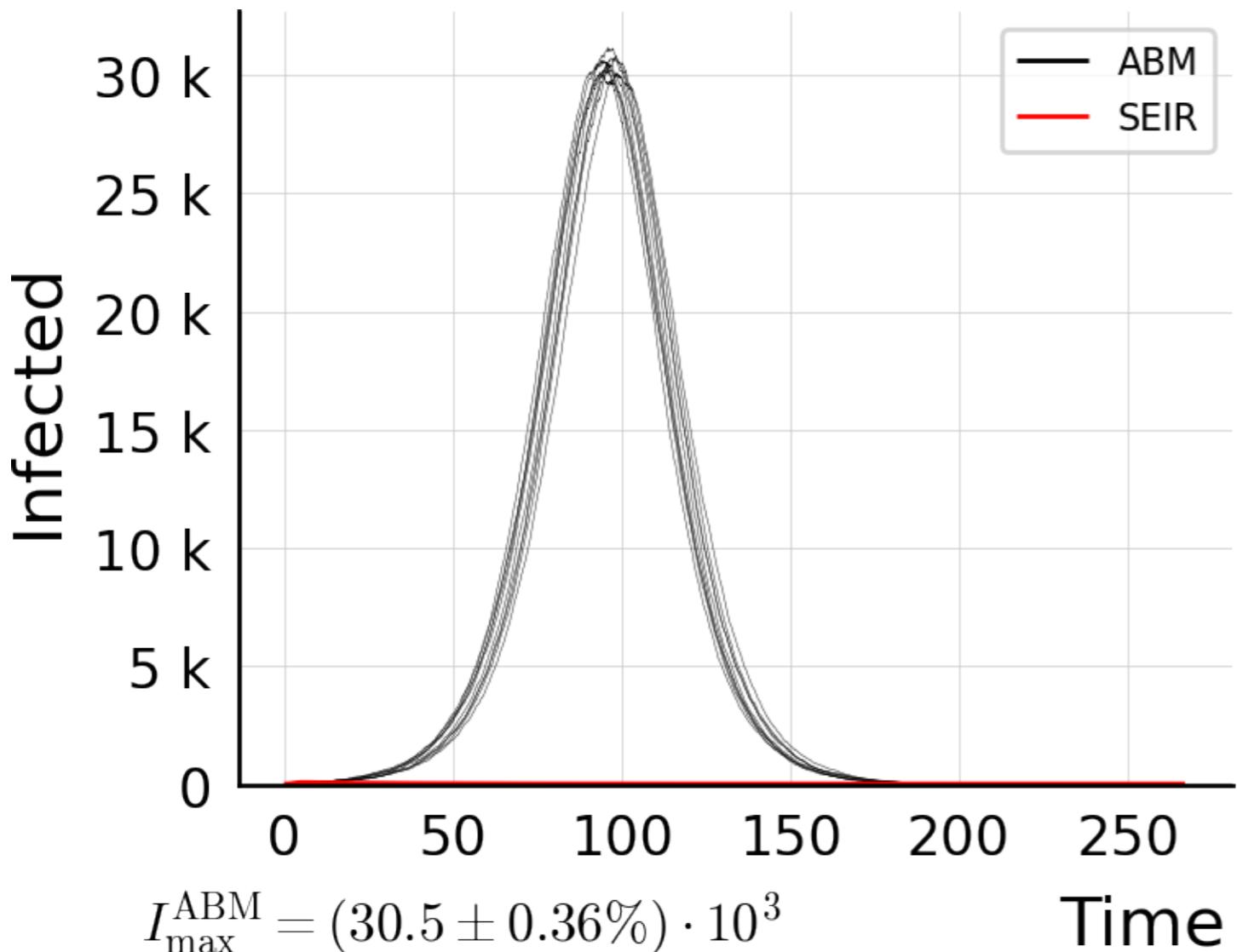
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.015$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



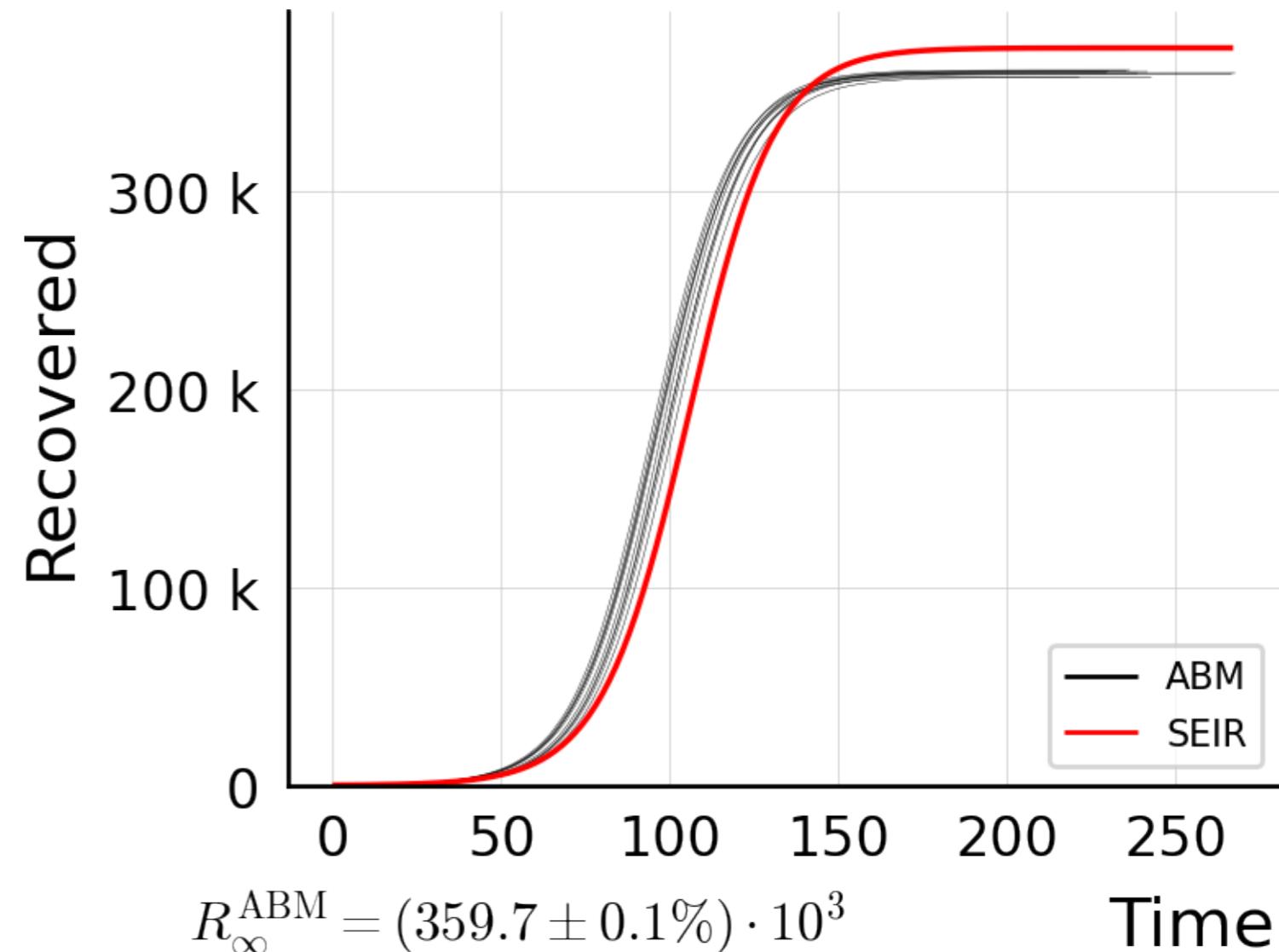
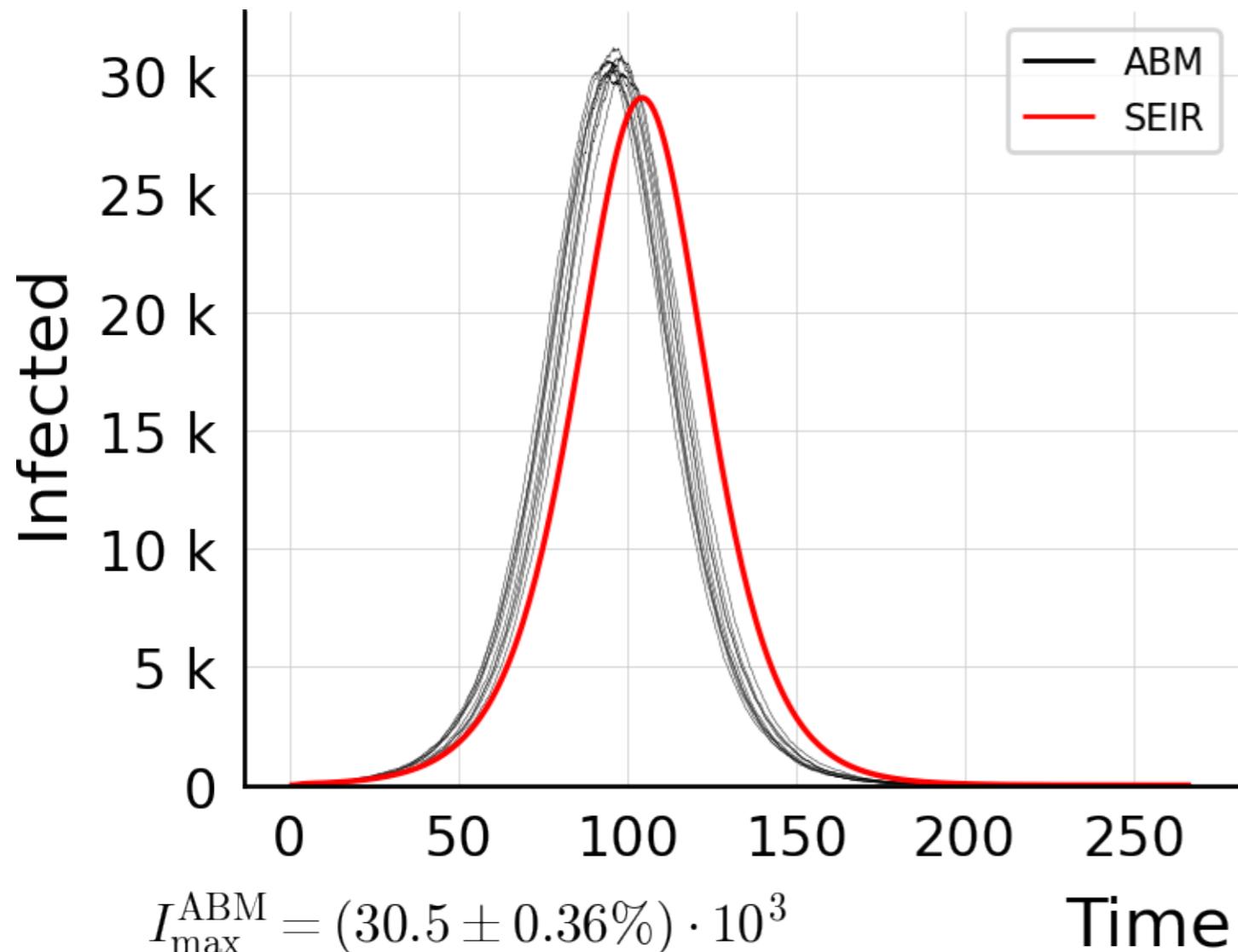
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.015$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



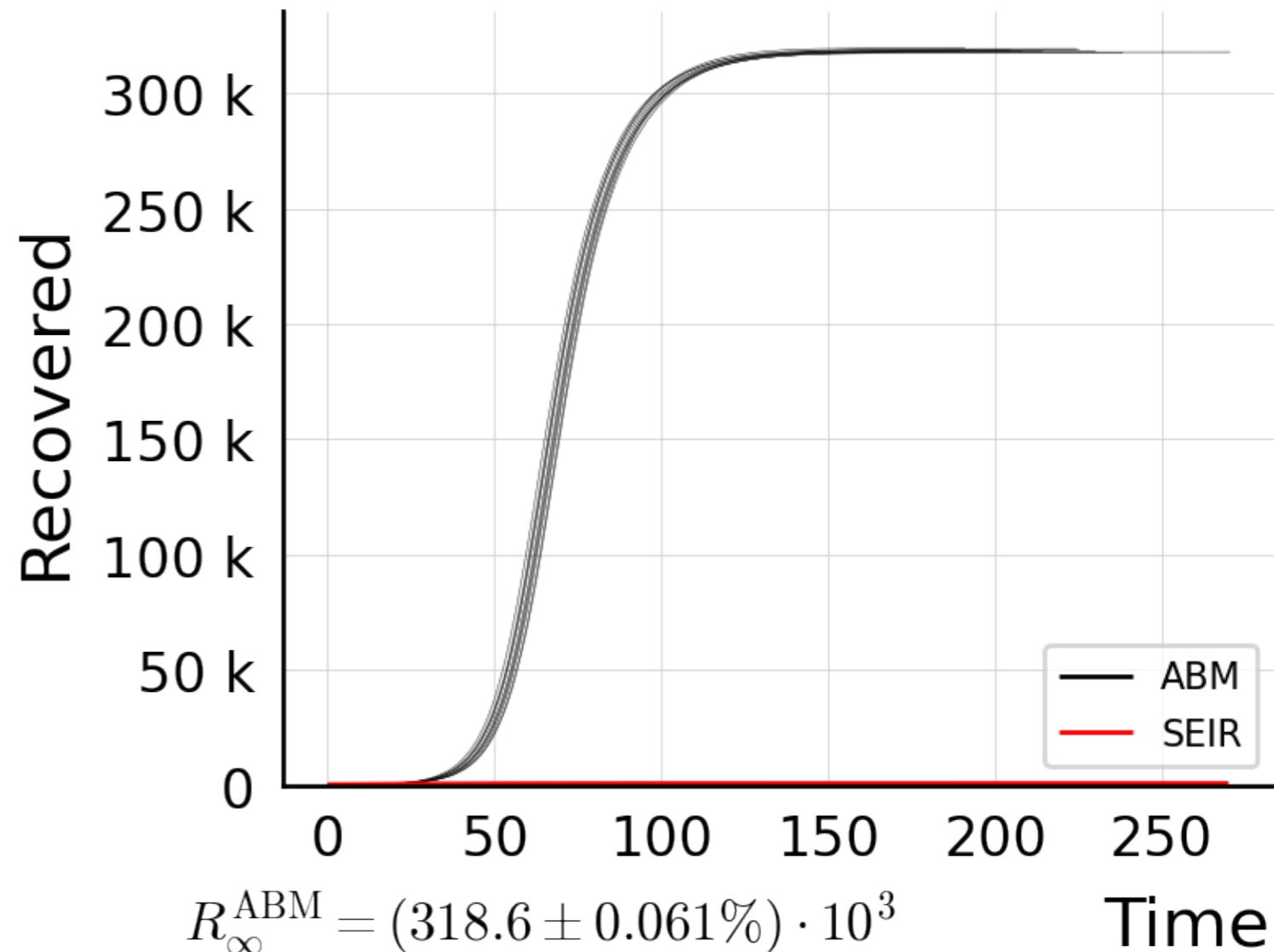
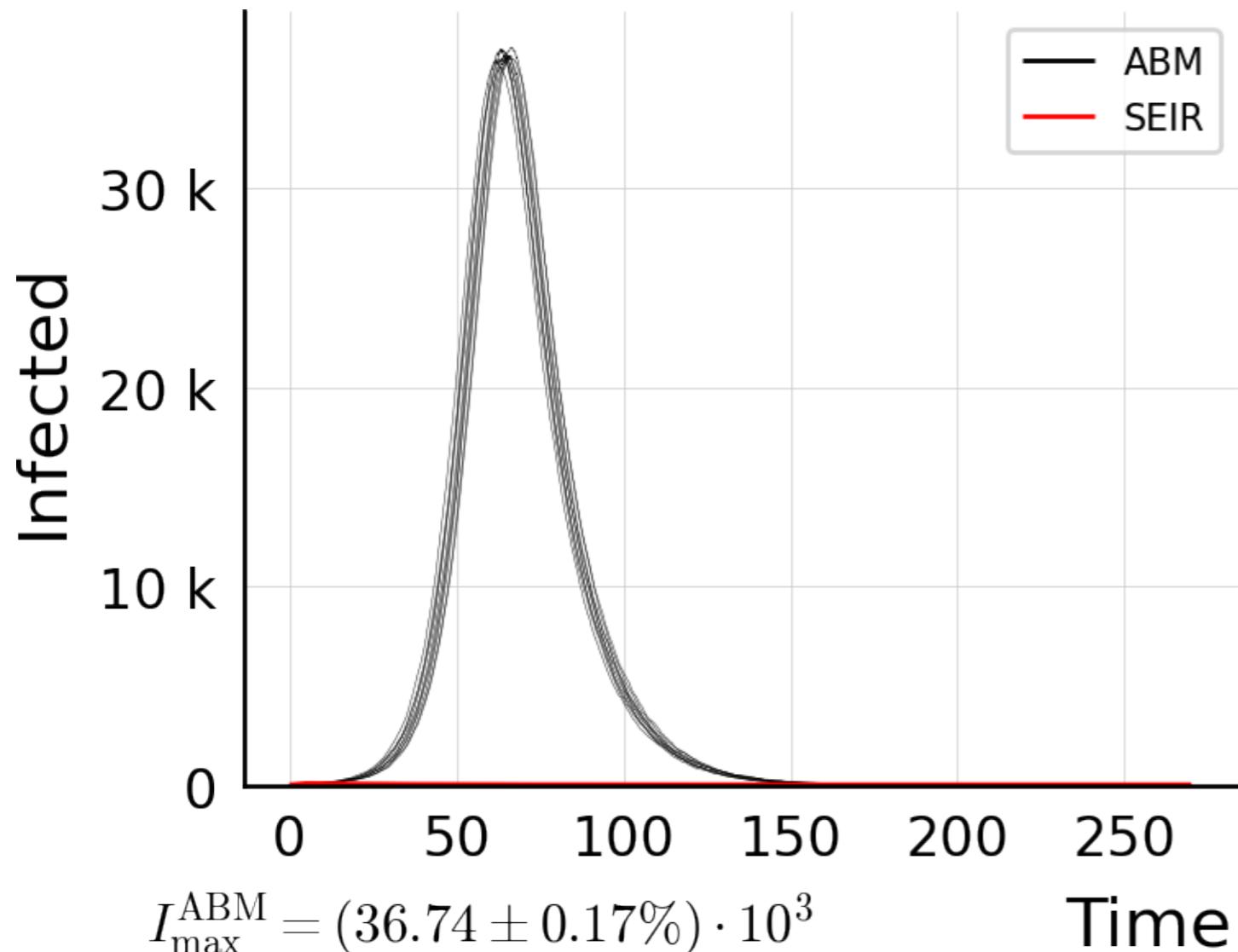
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.01$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



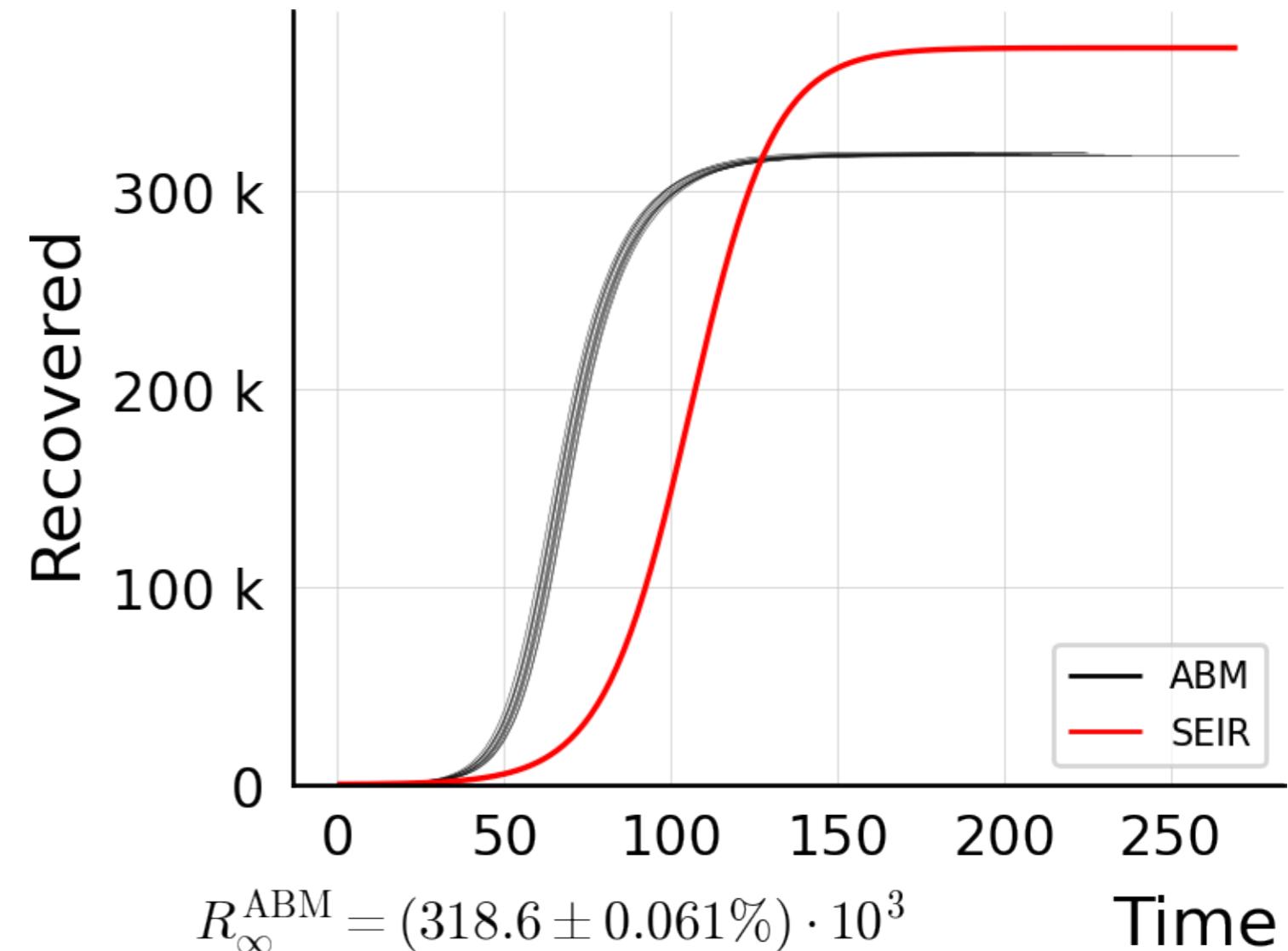
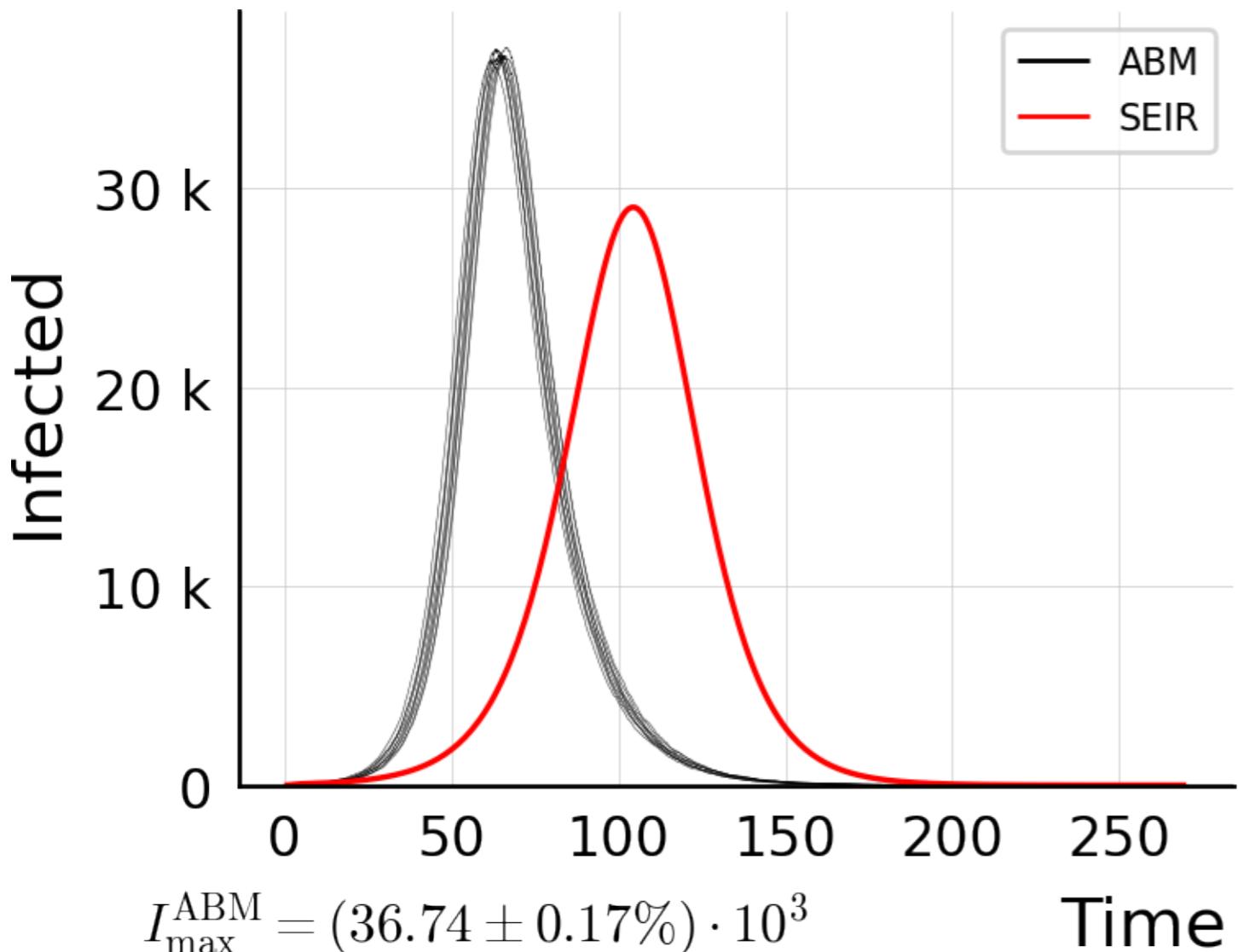
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.01$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



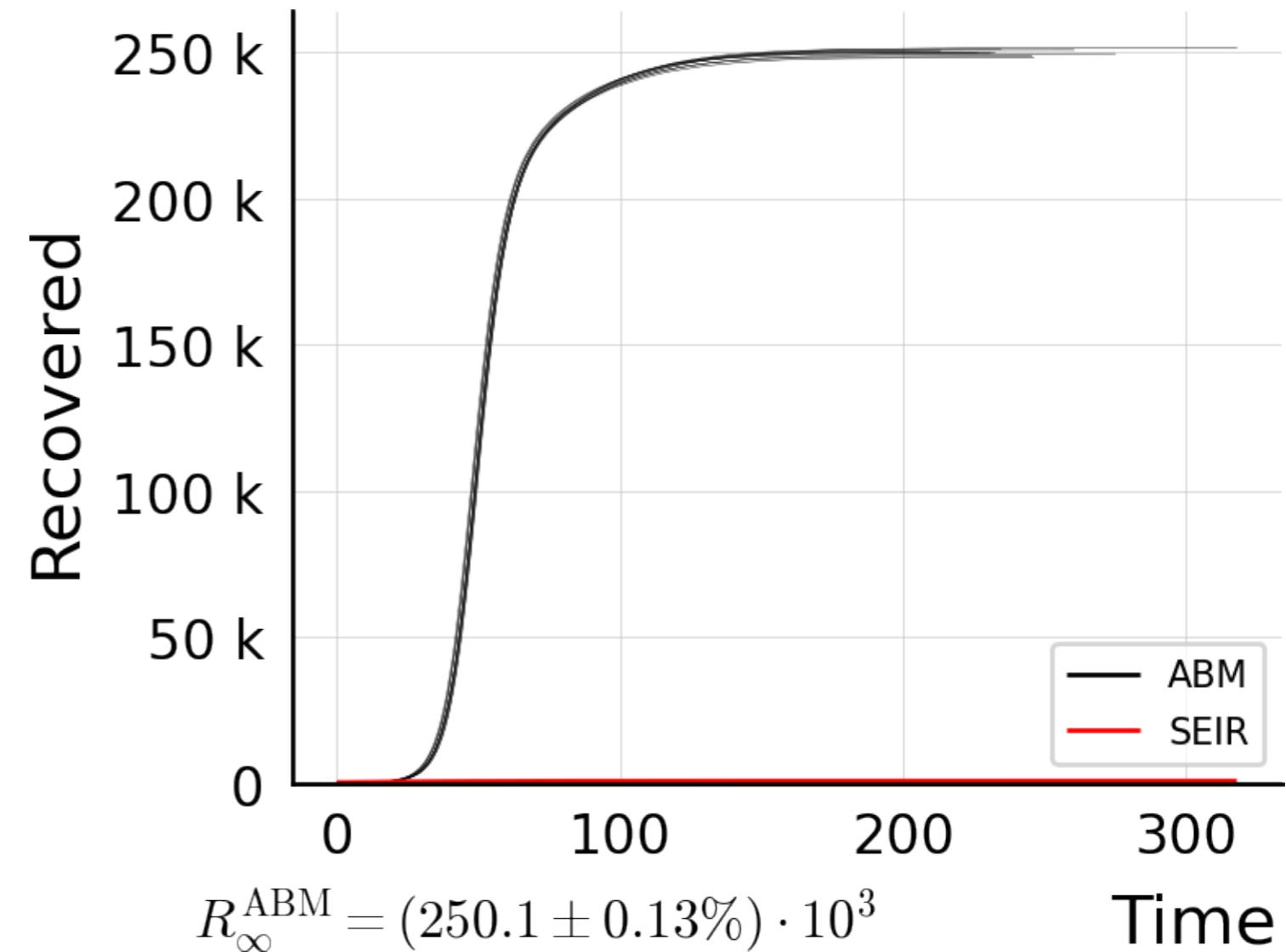
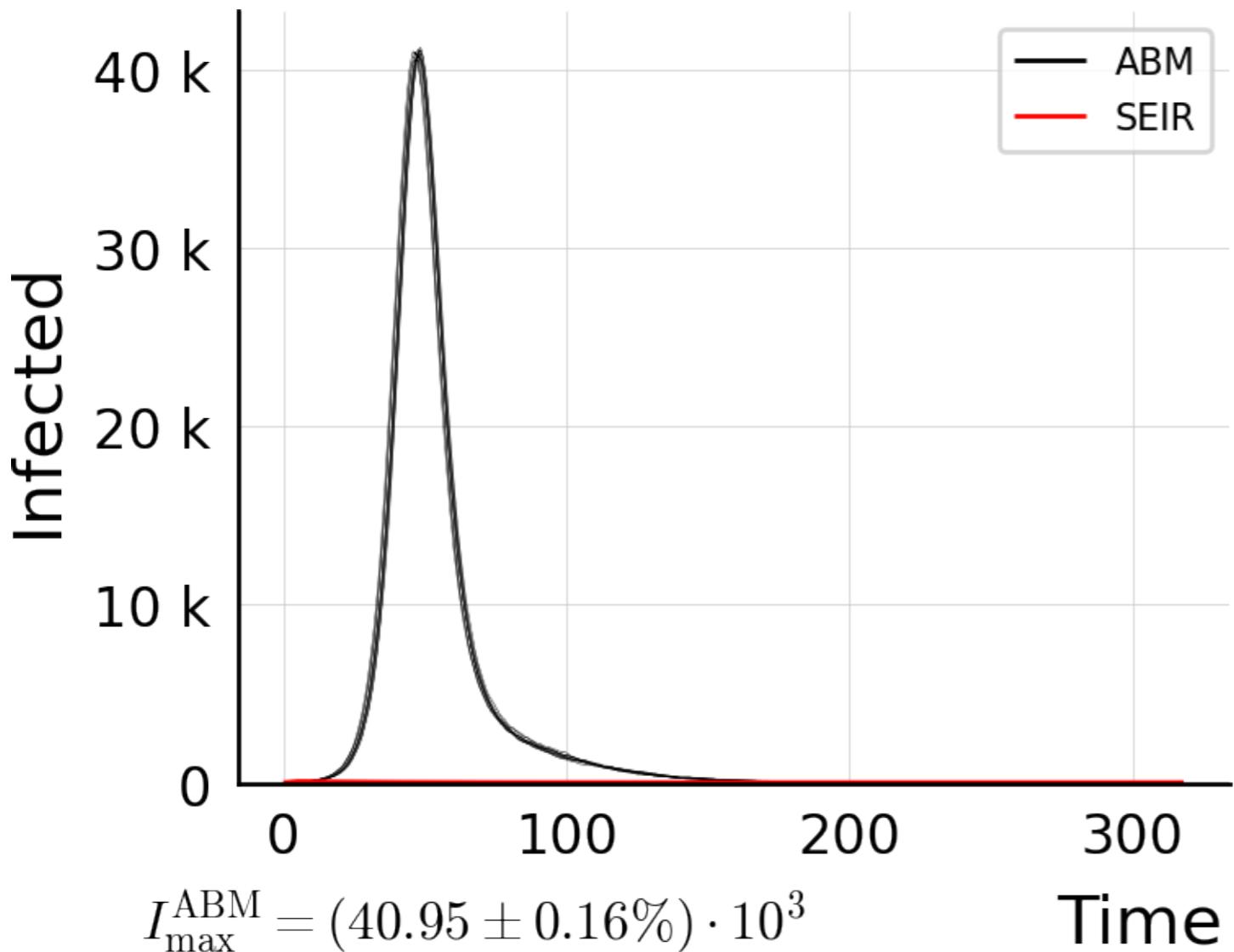
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.025$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.005$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



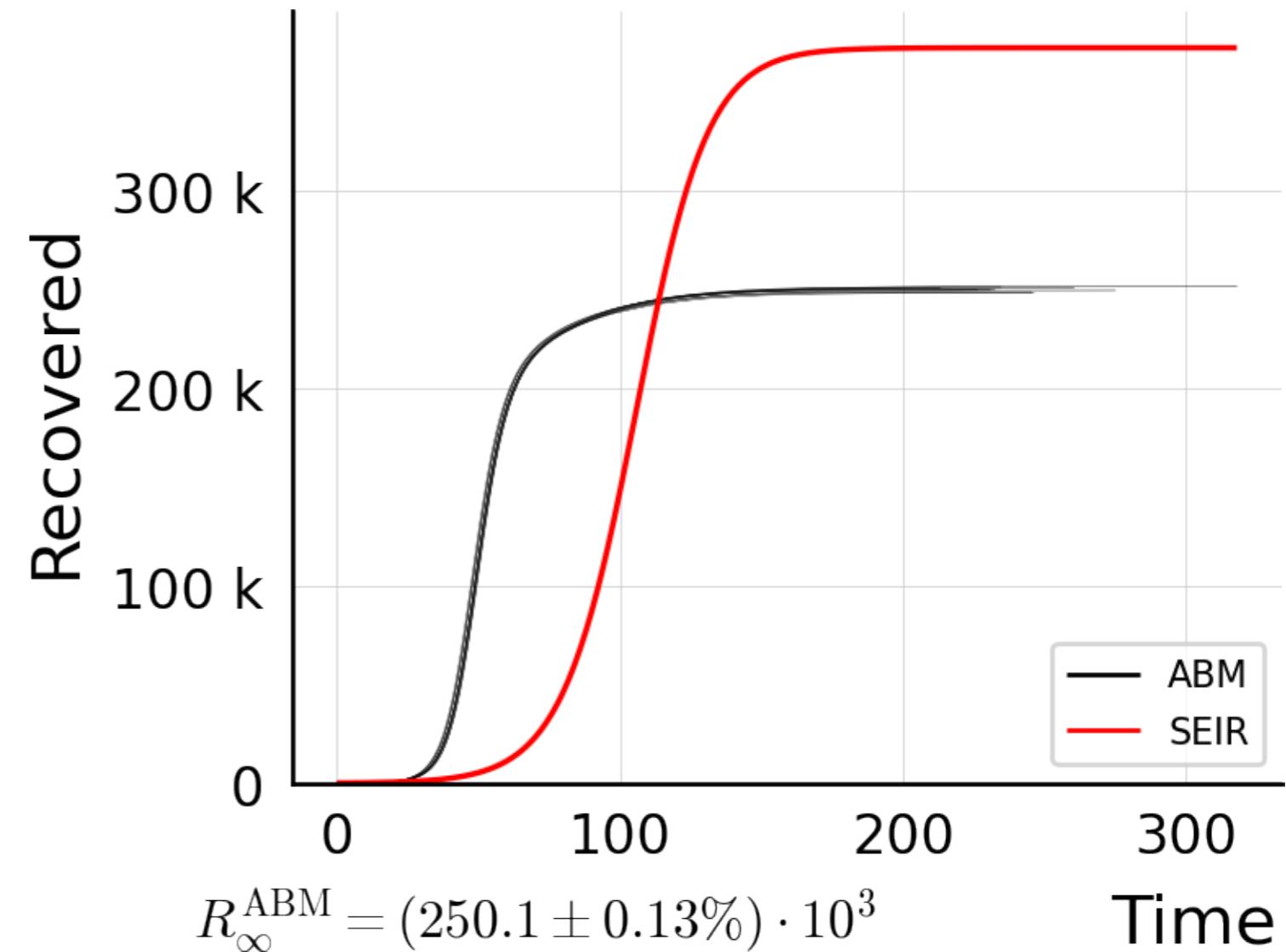
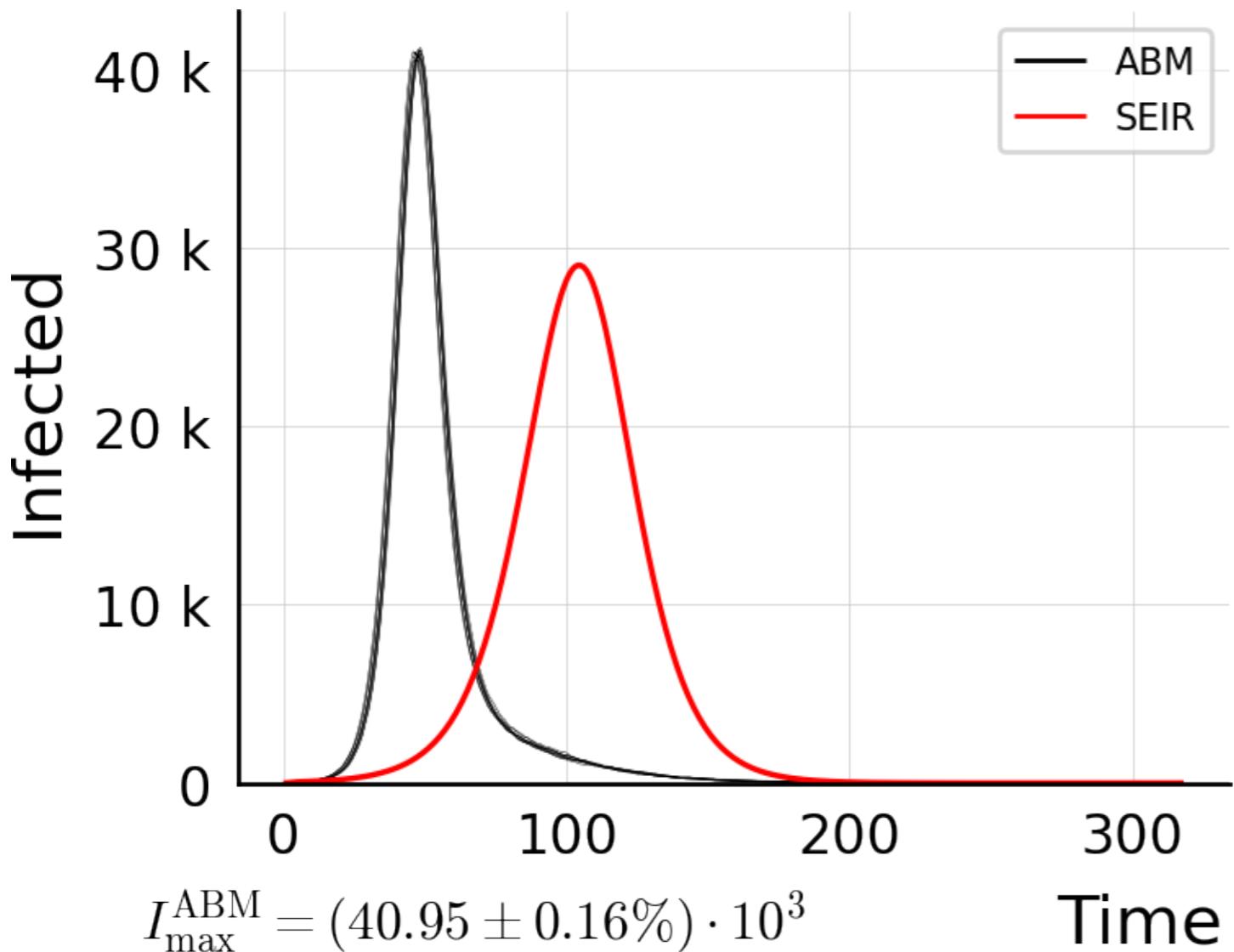
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



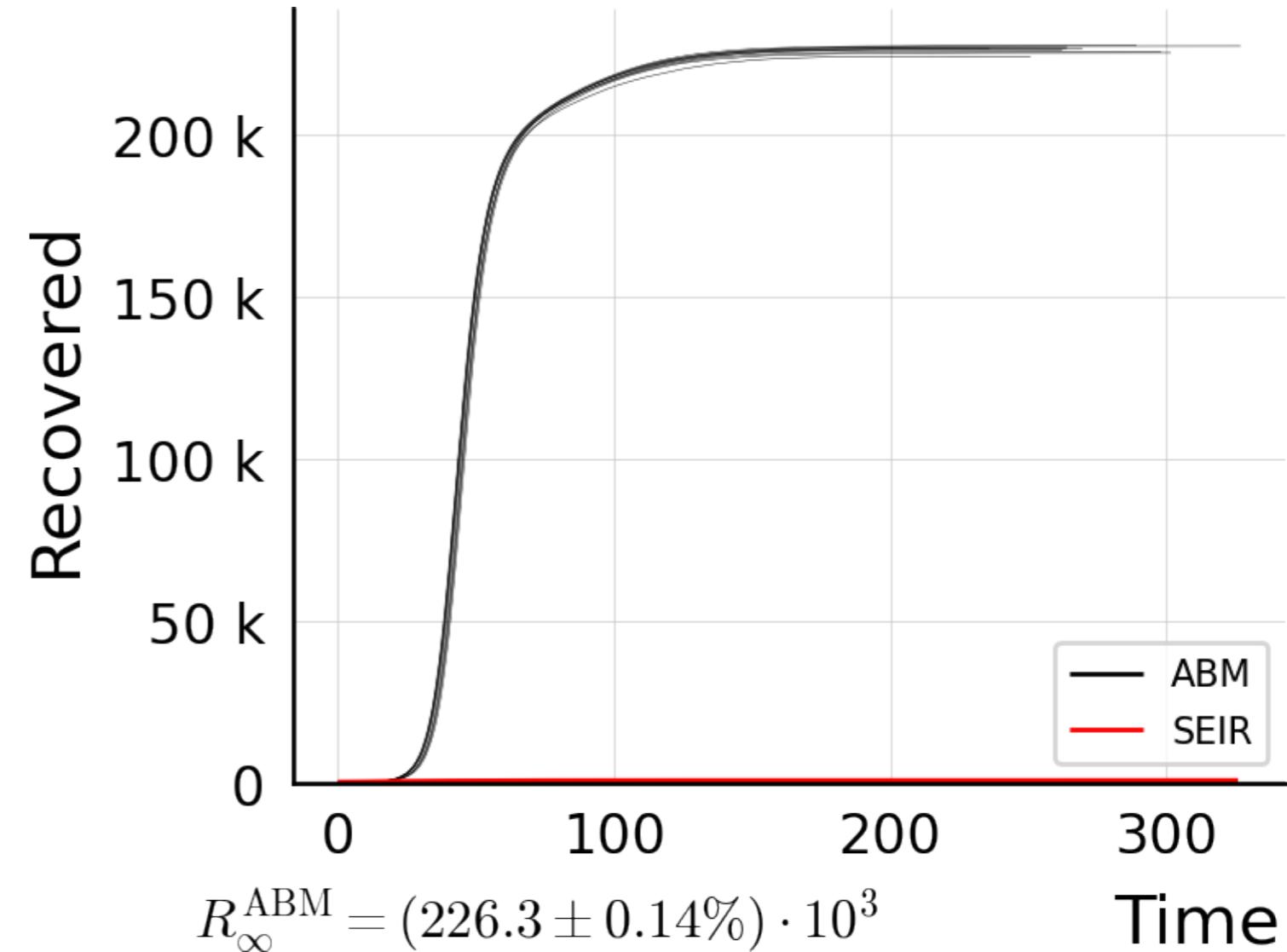
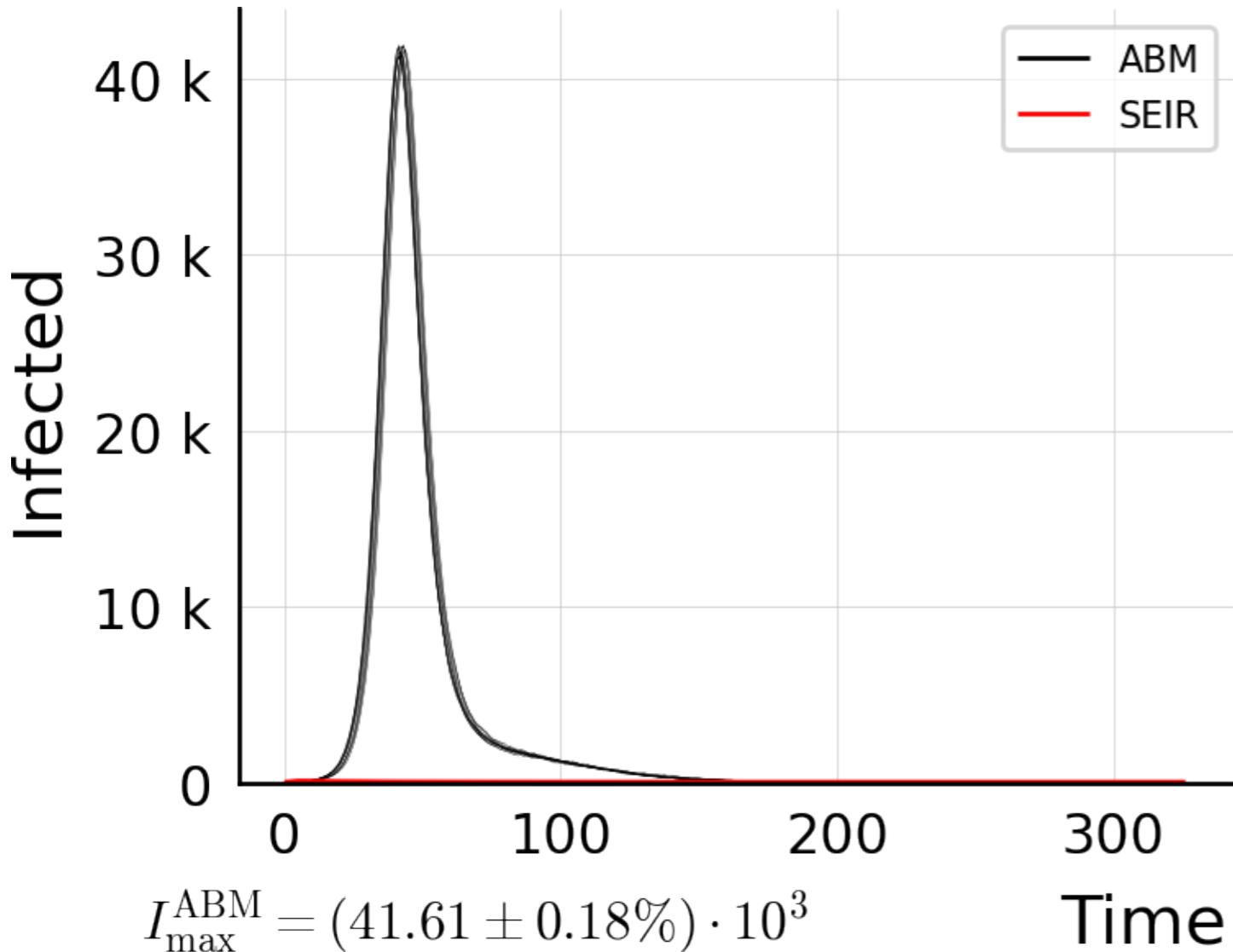
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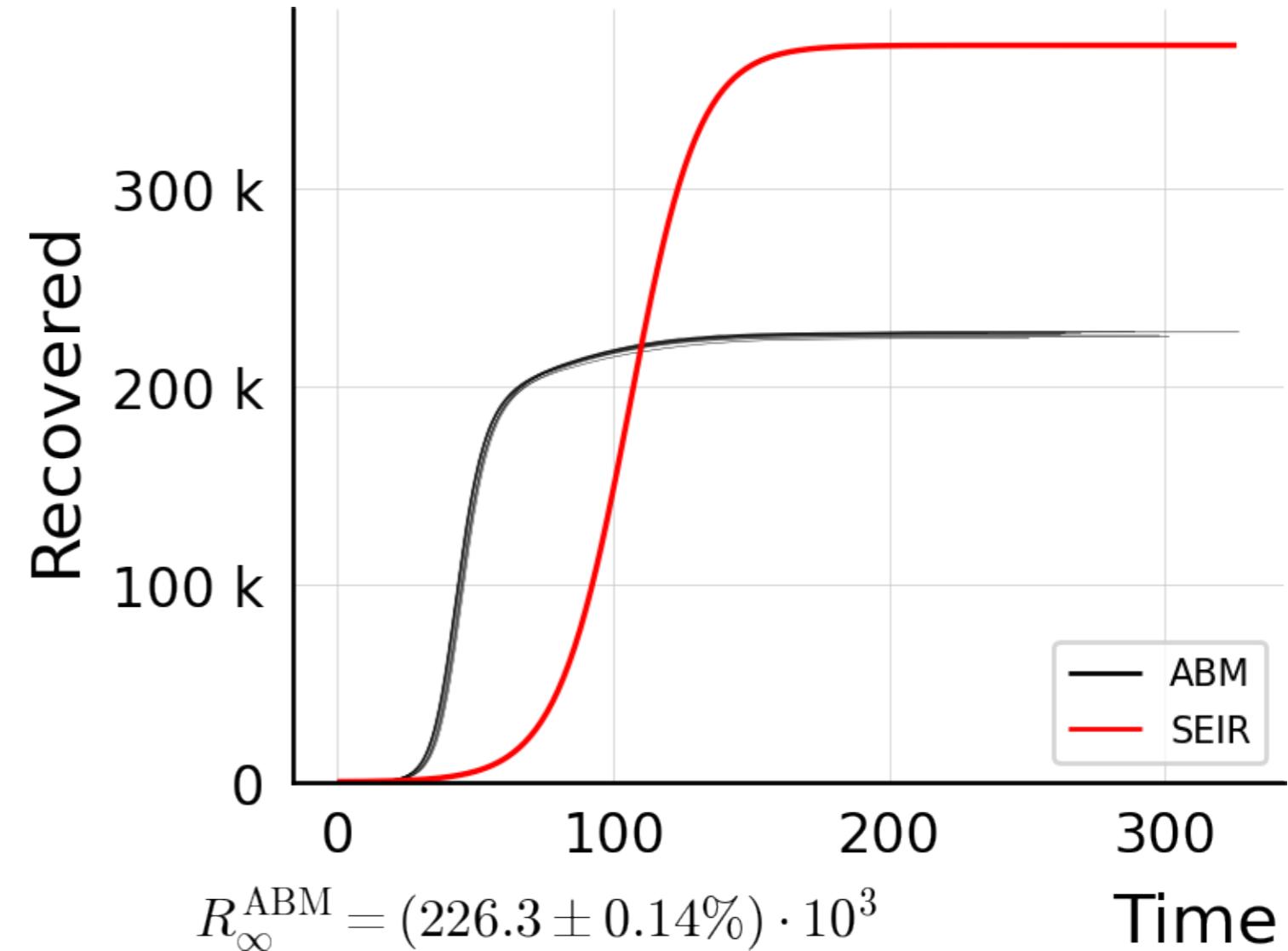
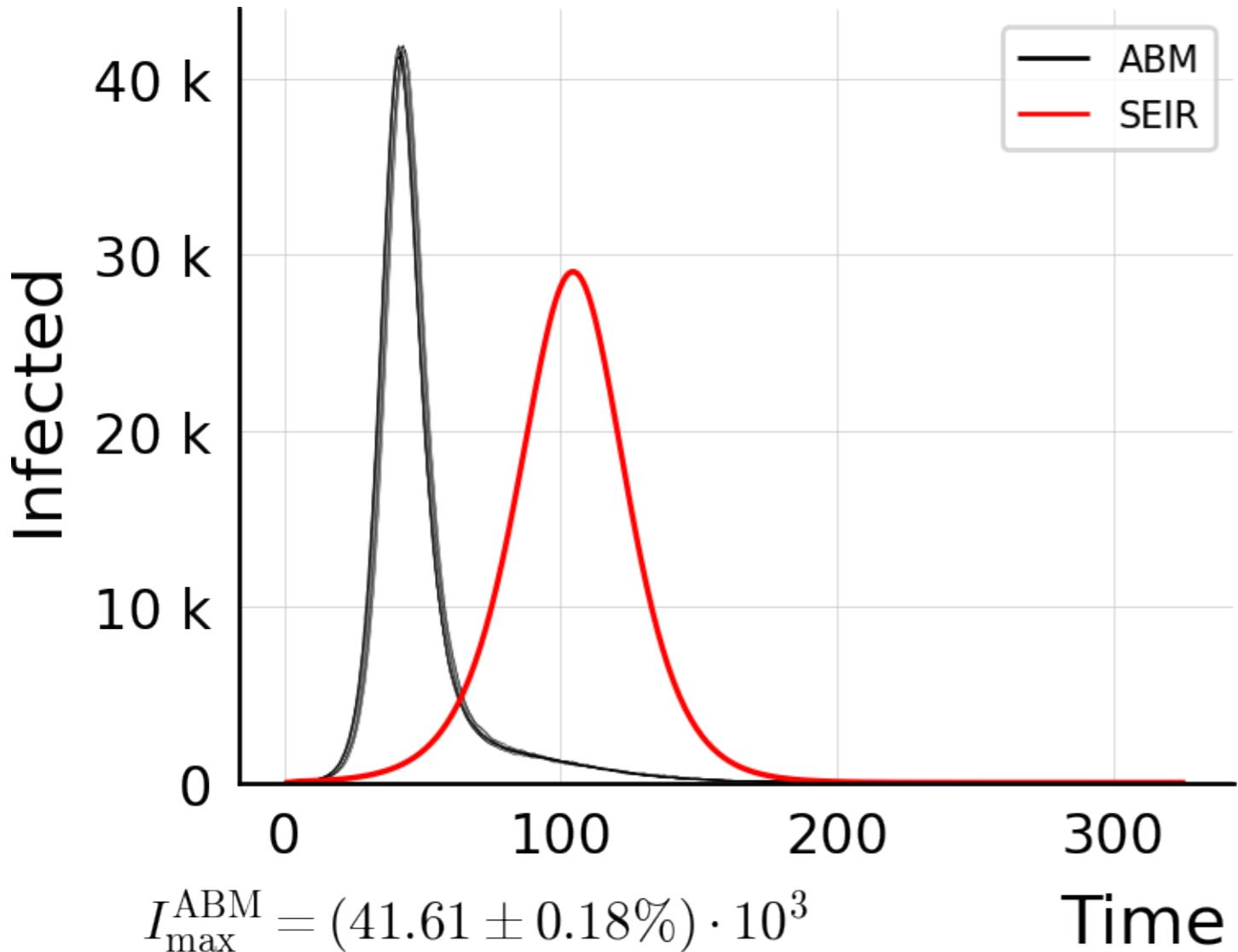
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



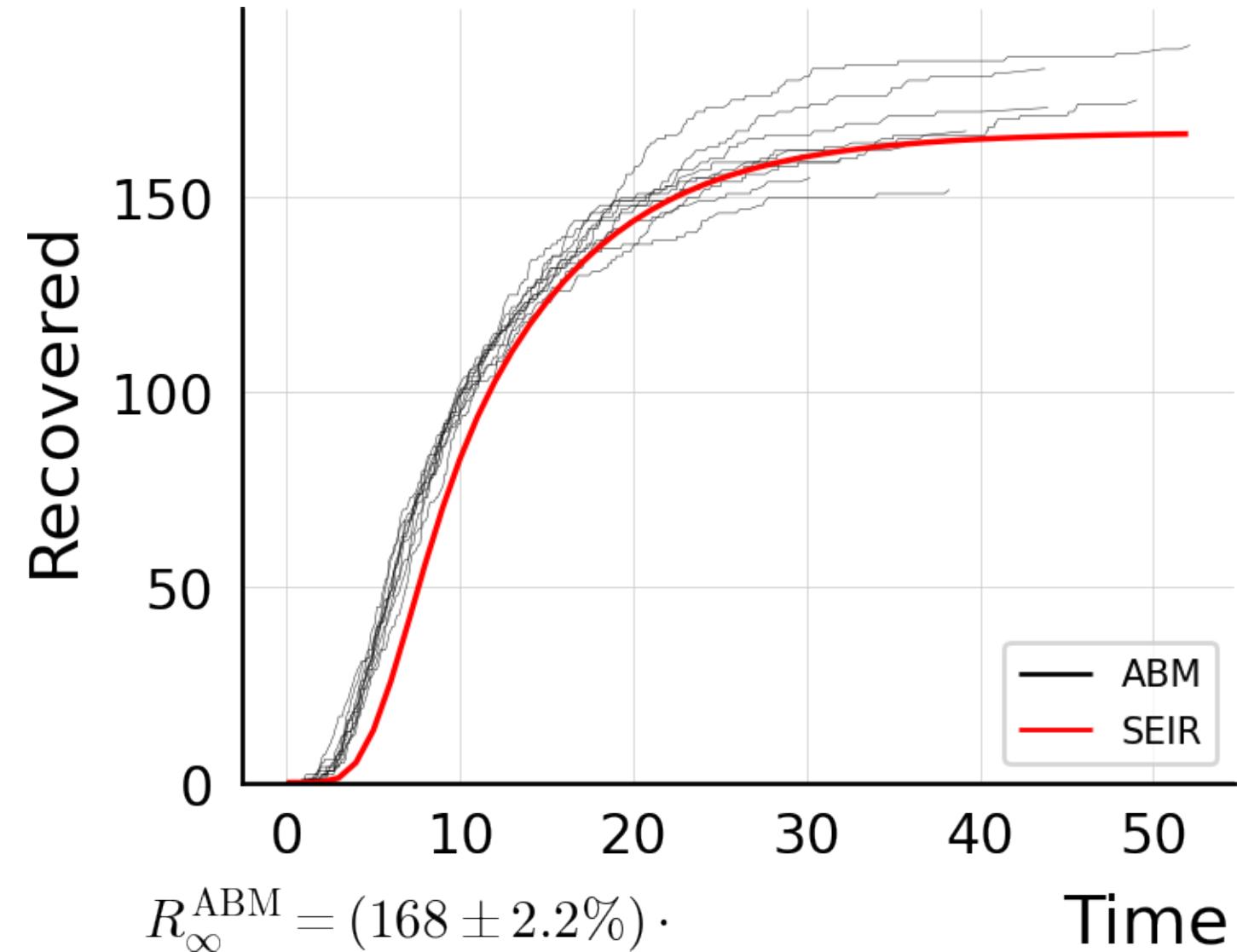
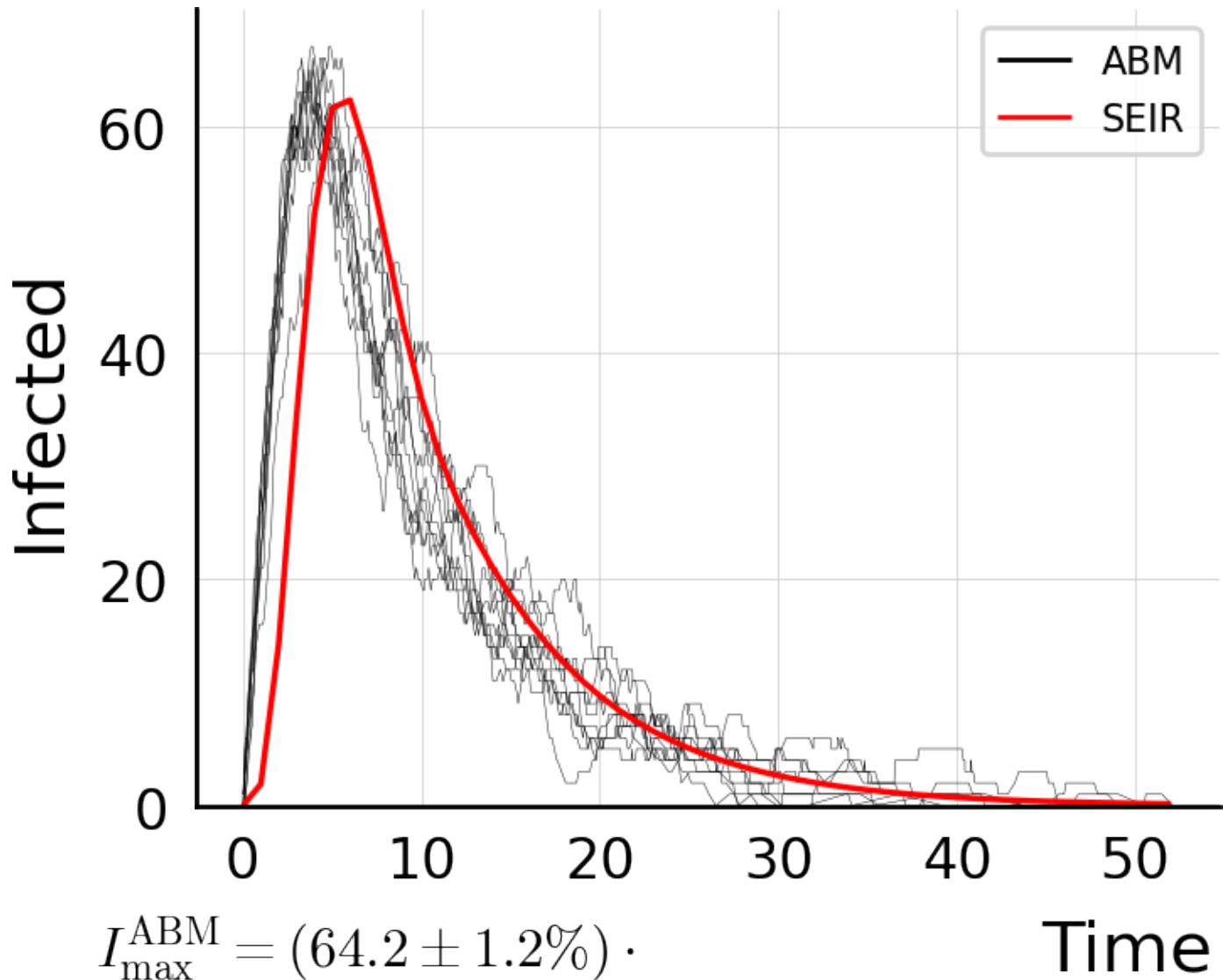
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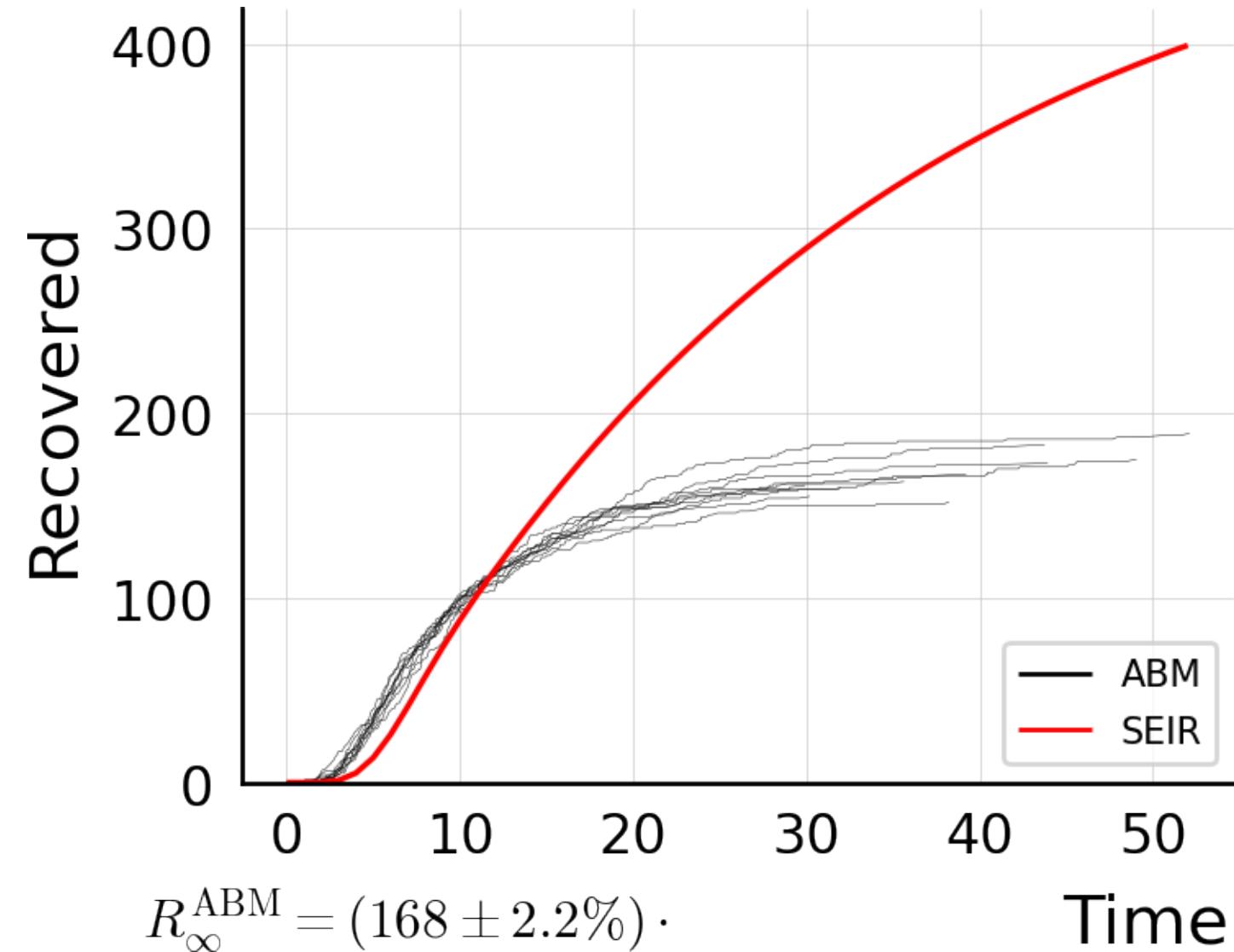
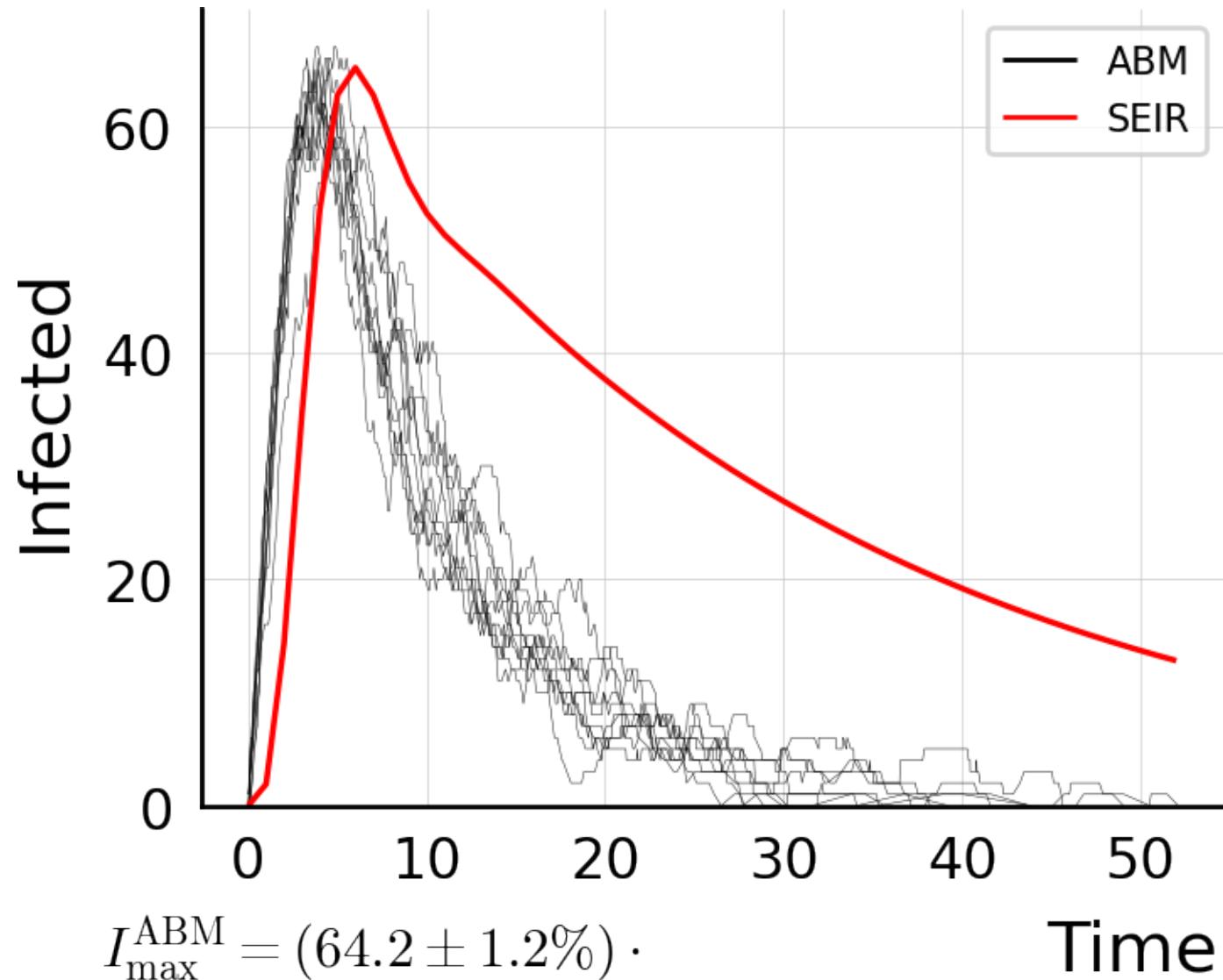
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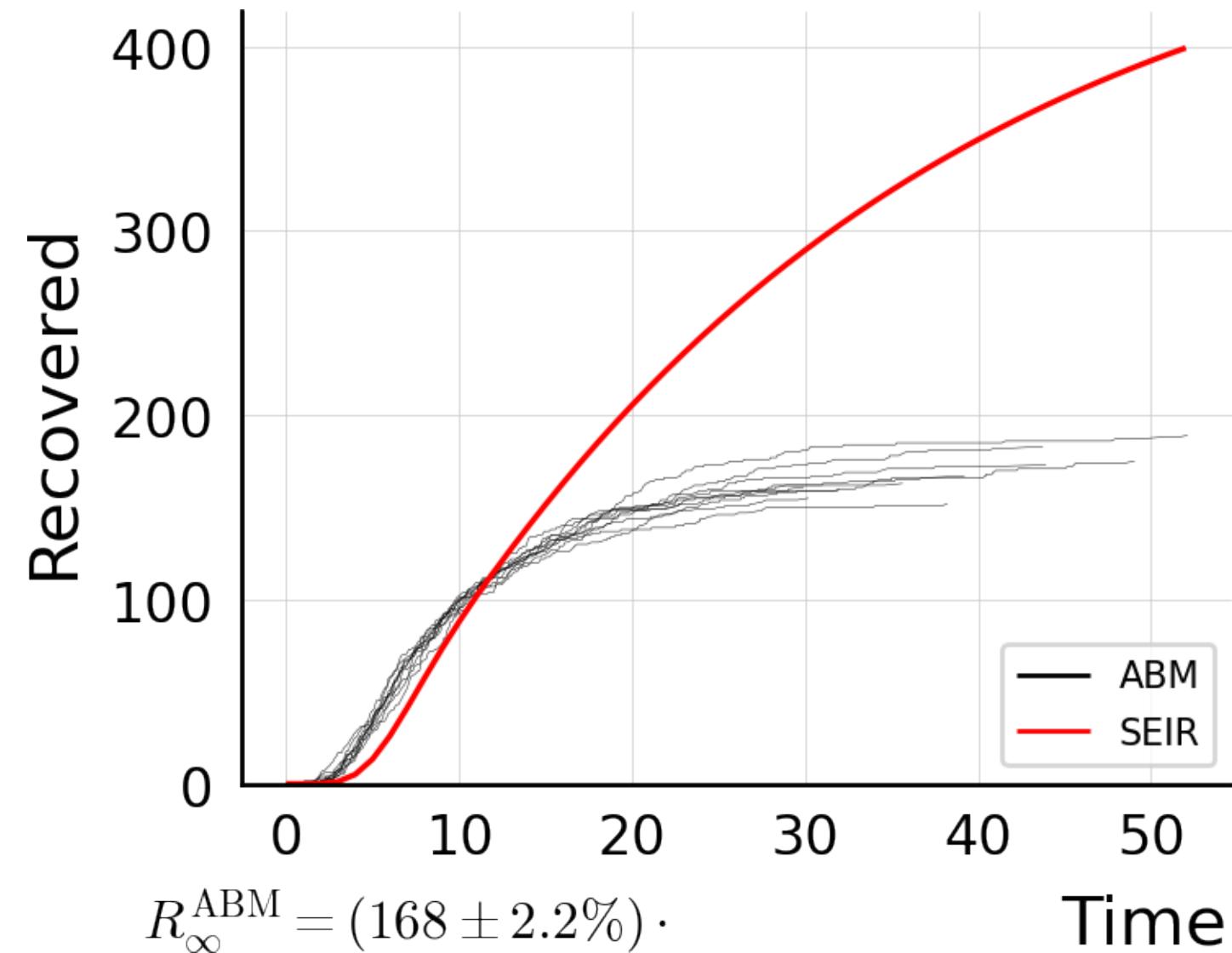
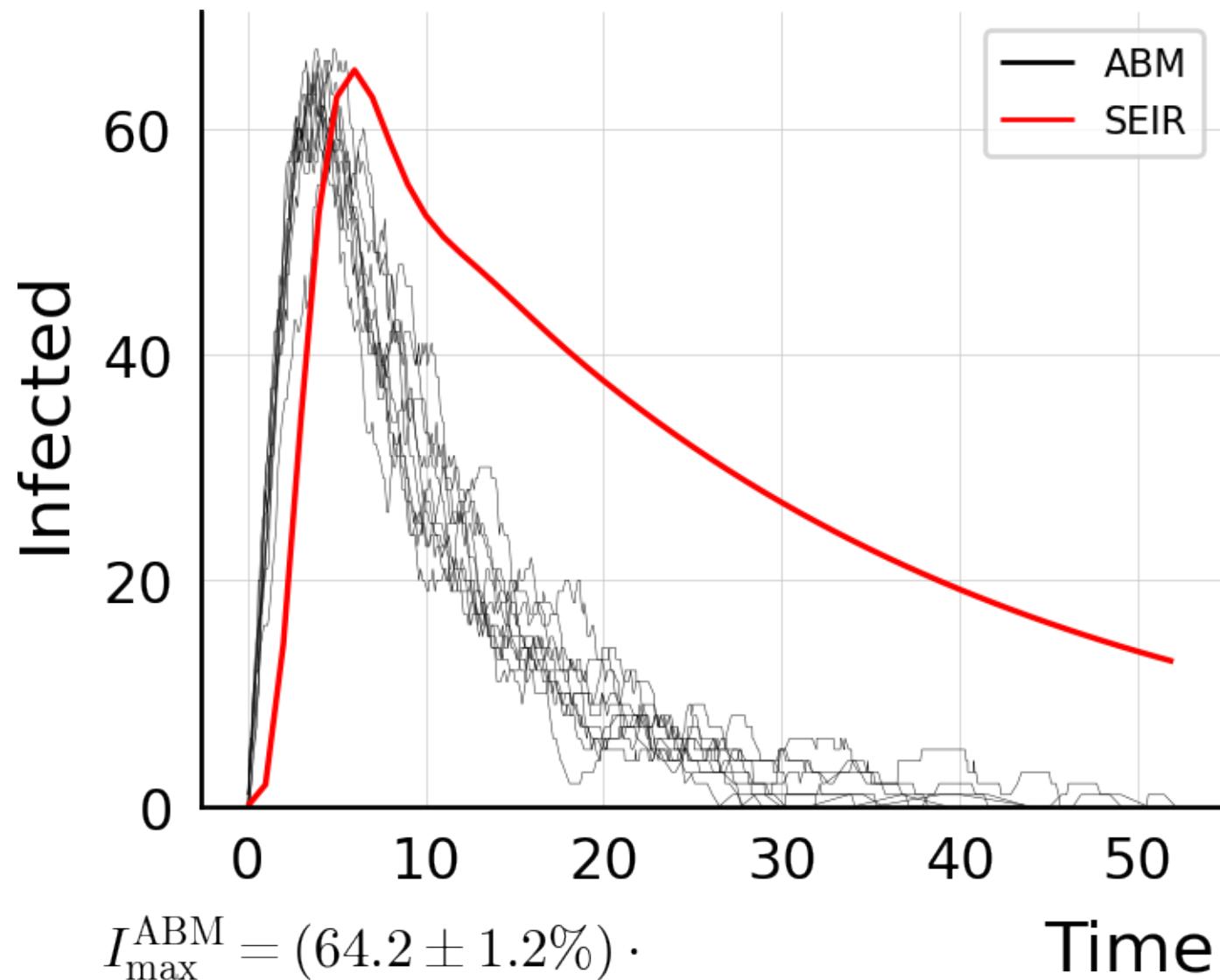
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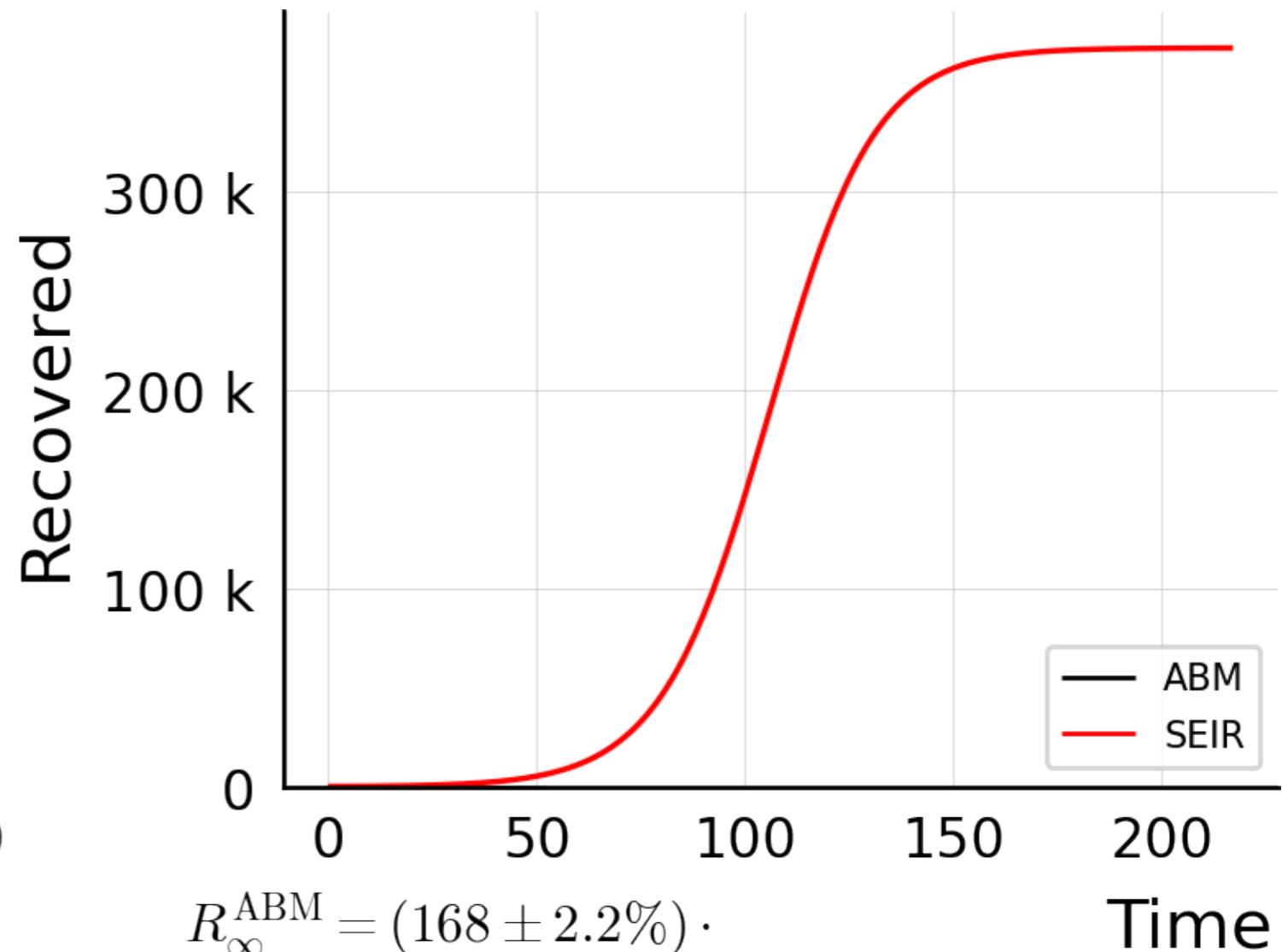
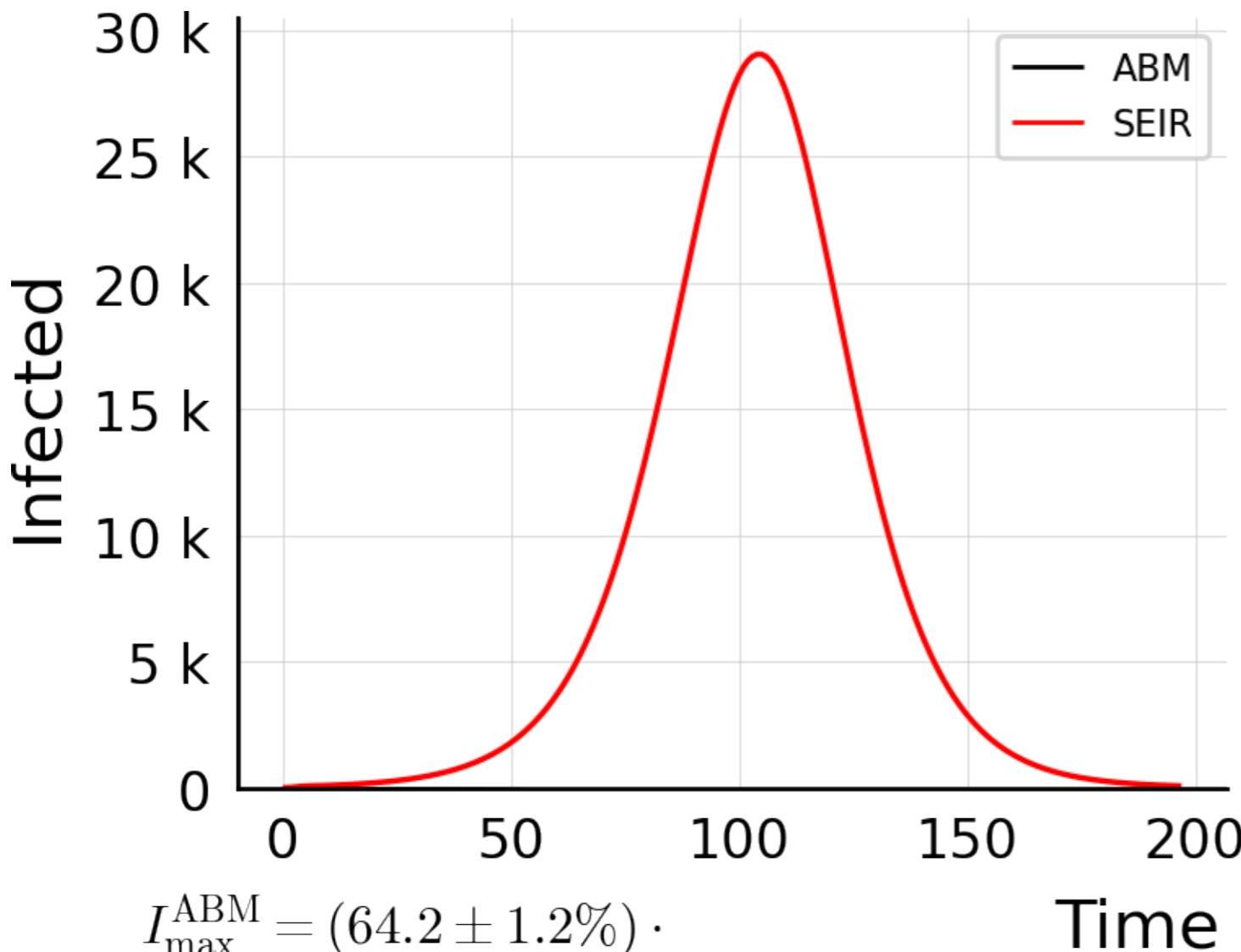
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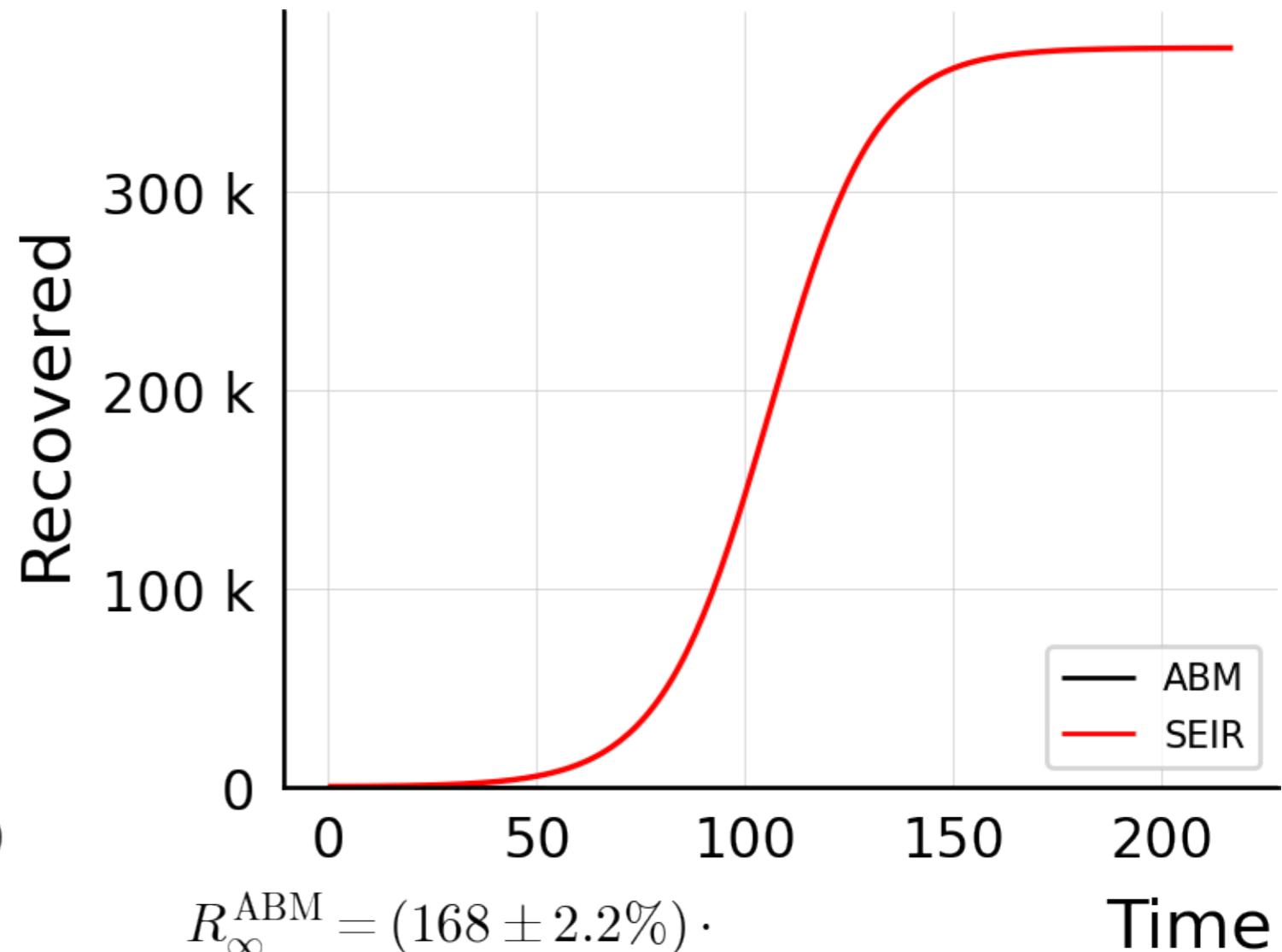
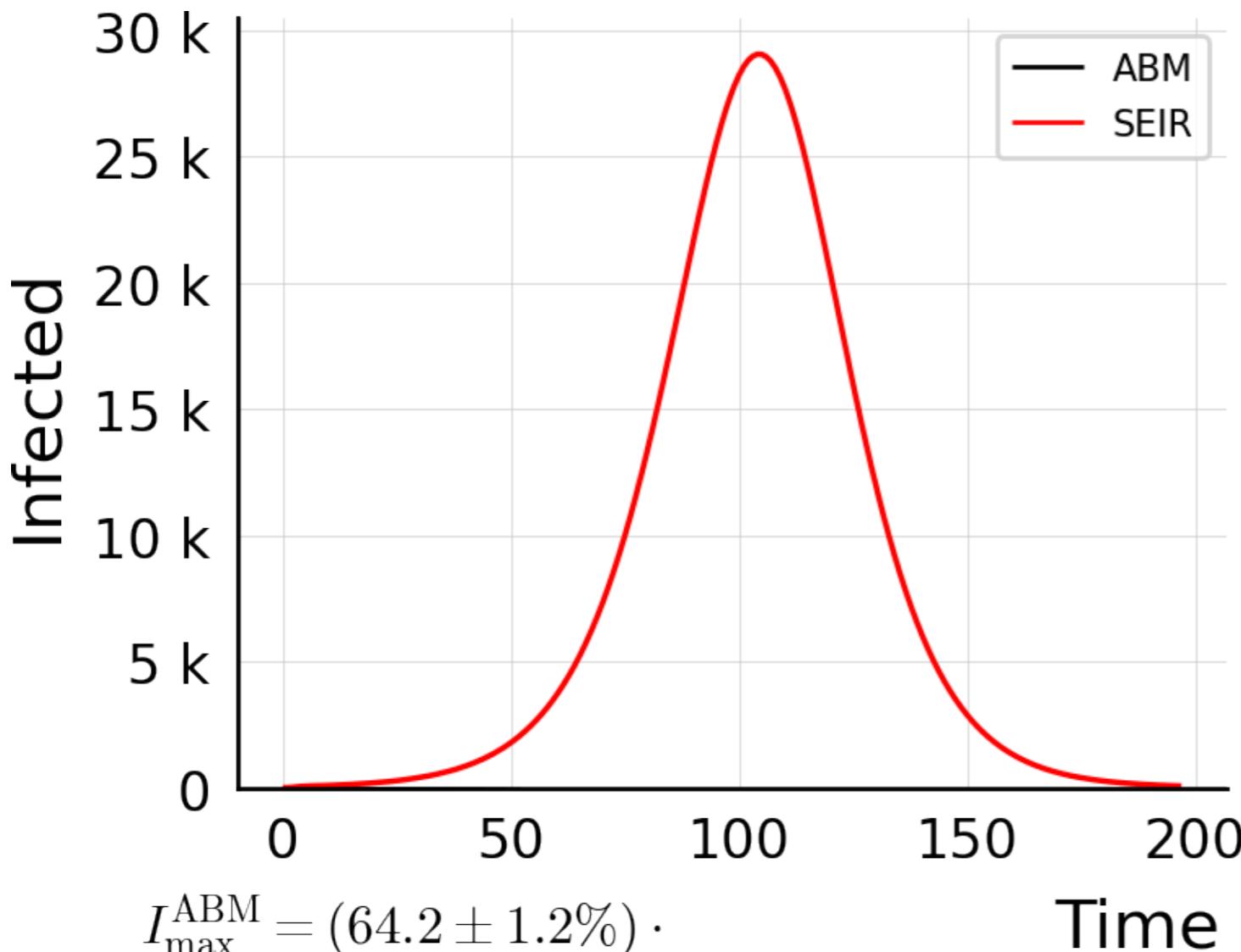
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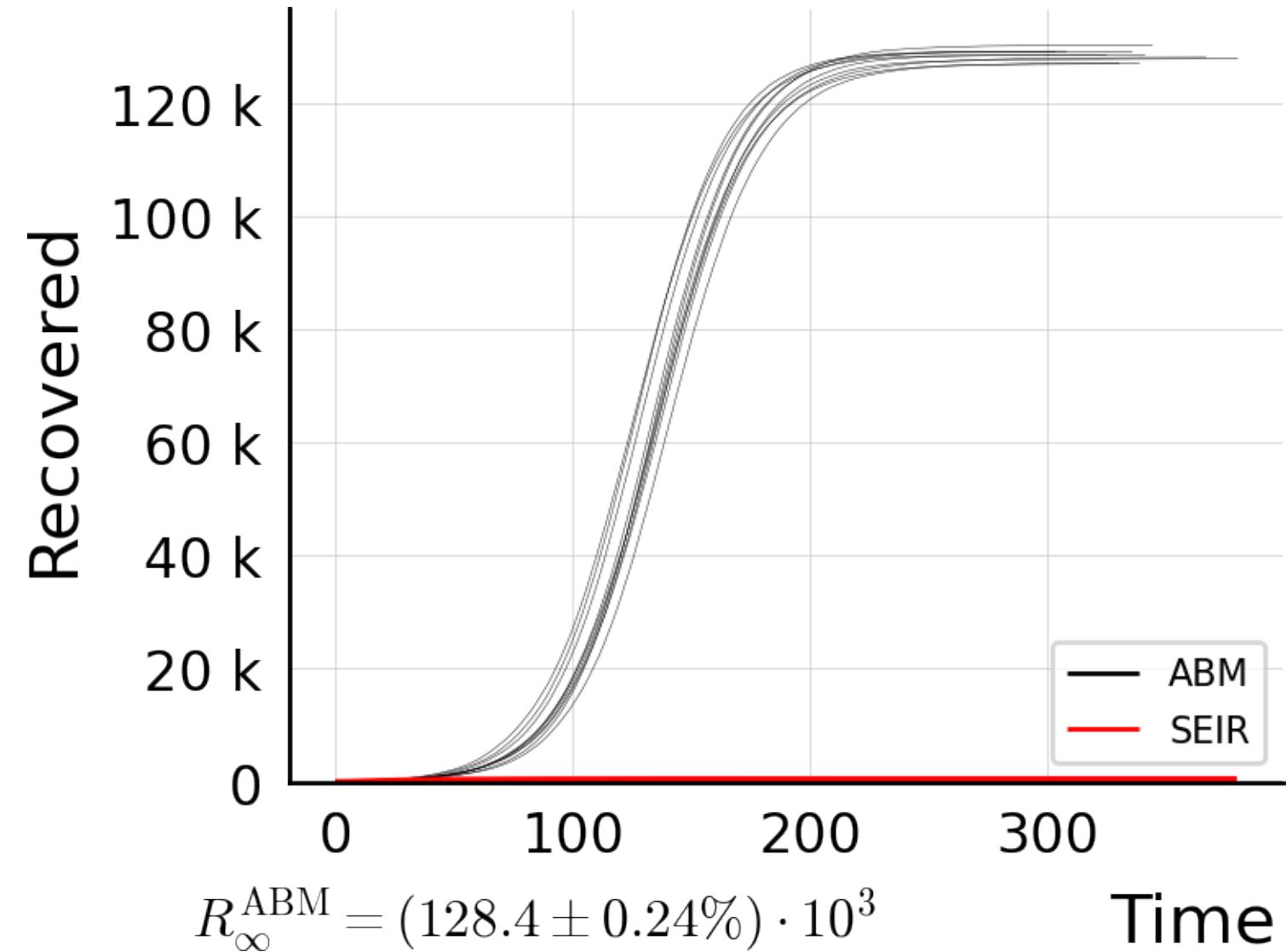
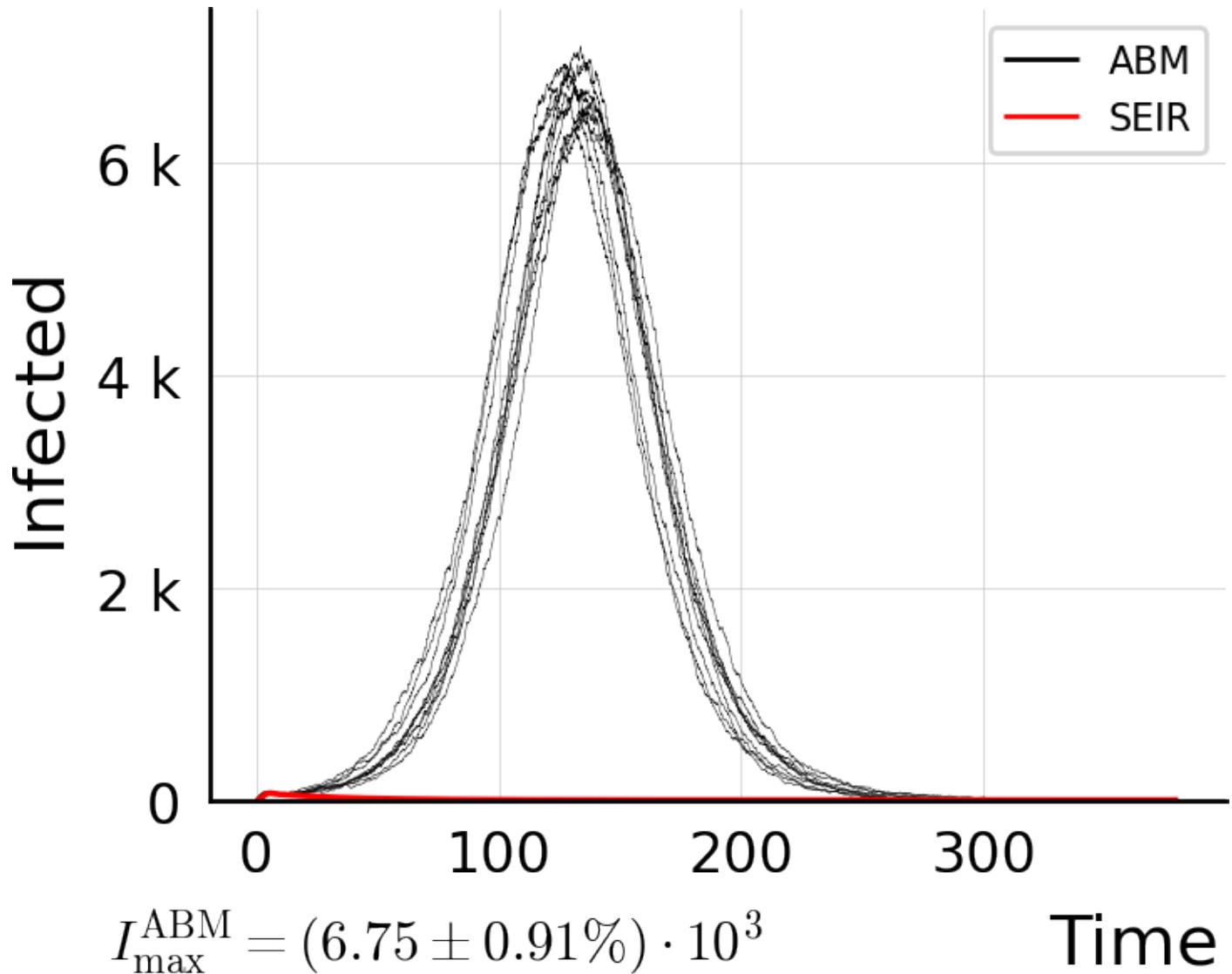
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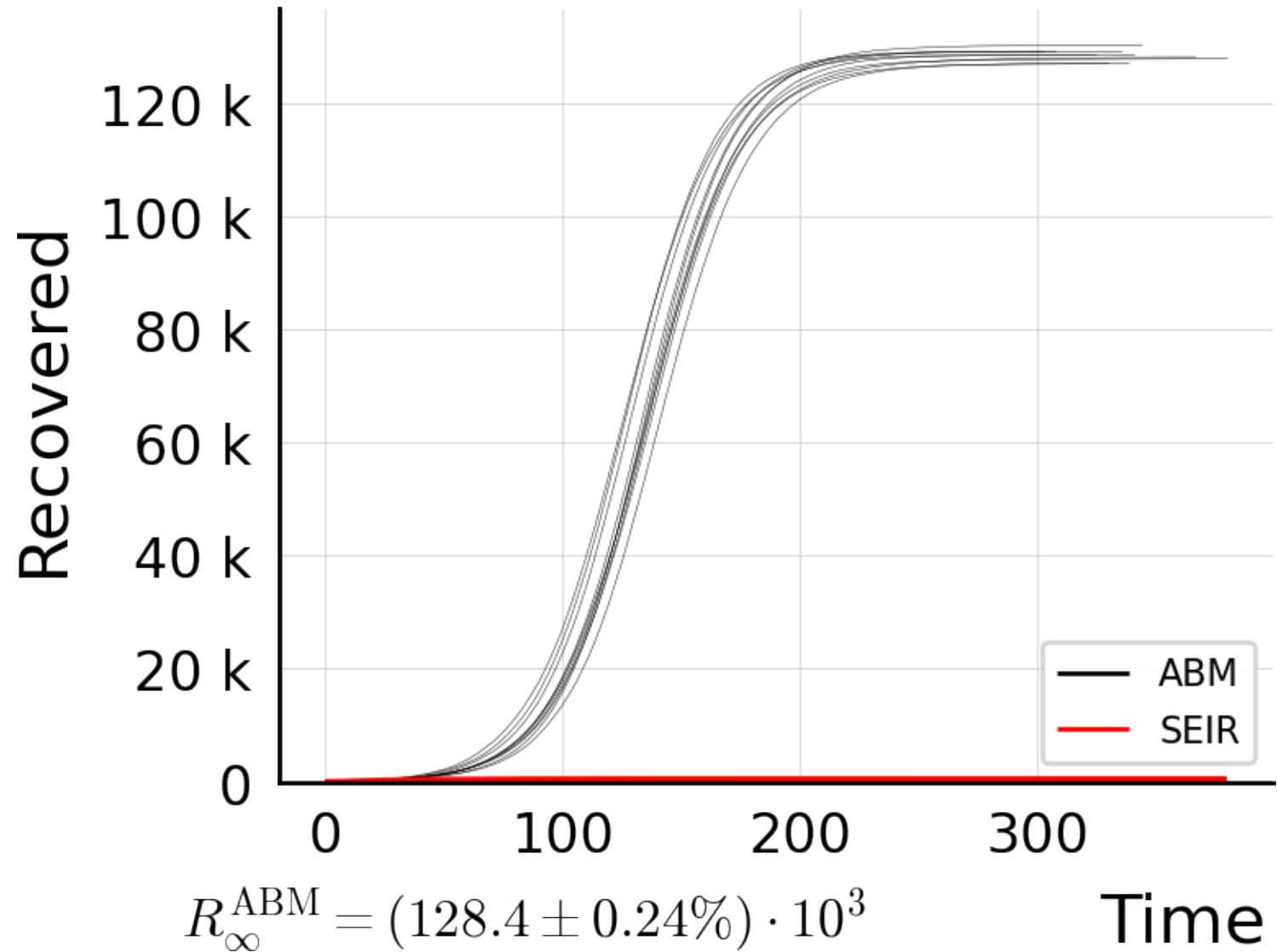
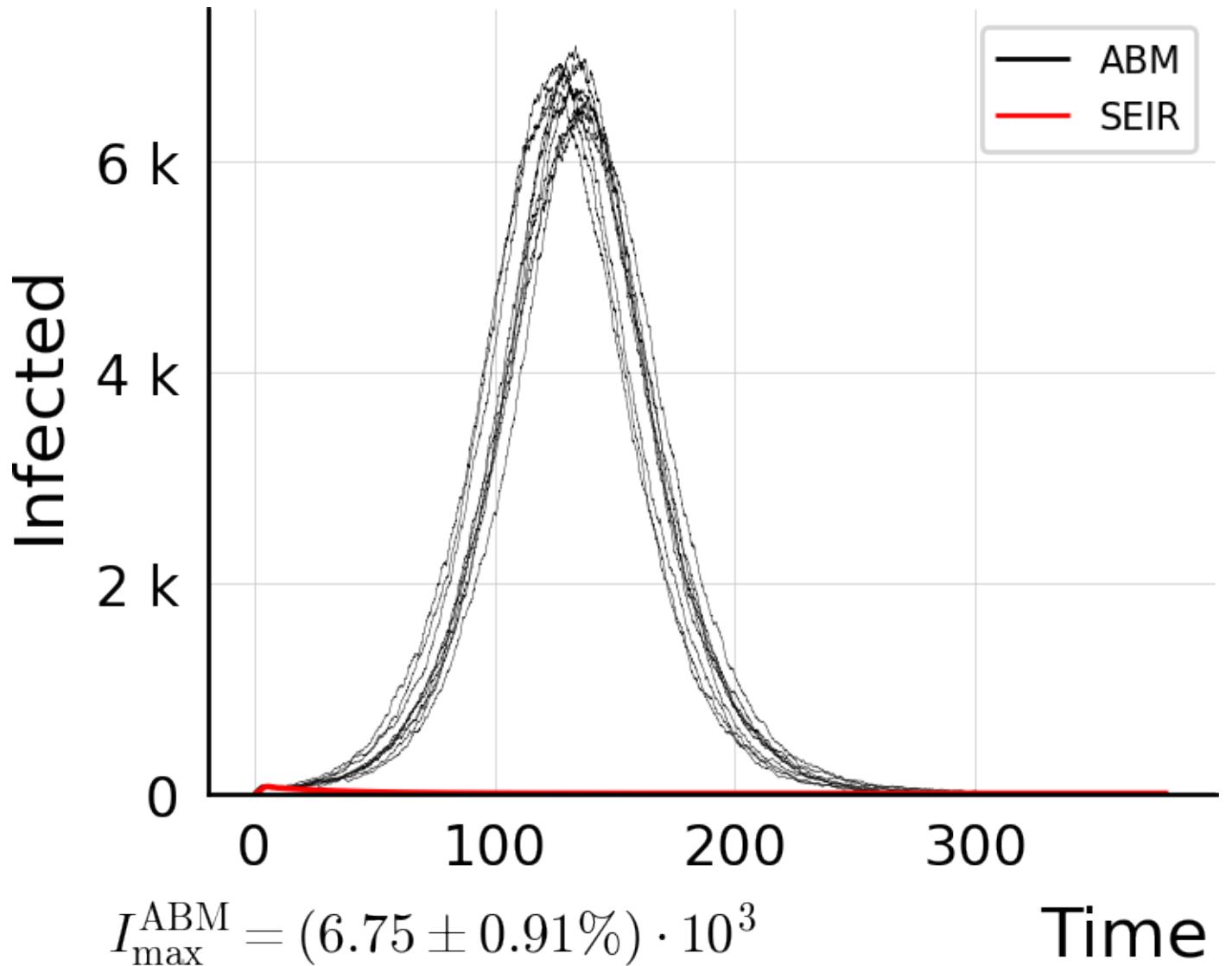
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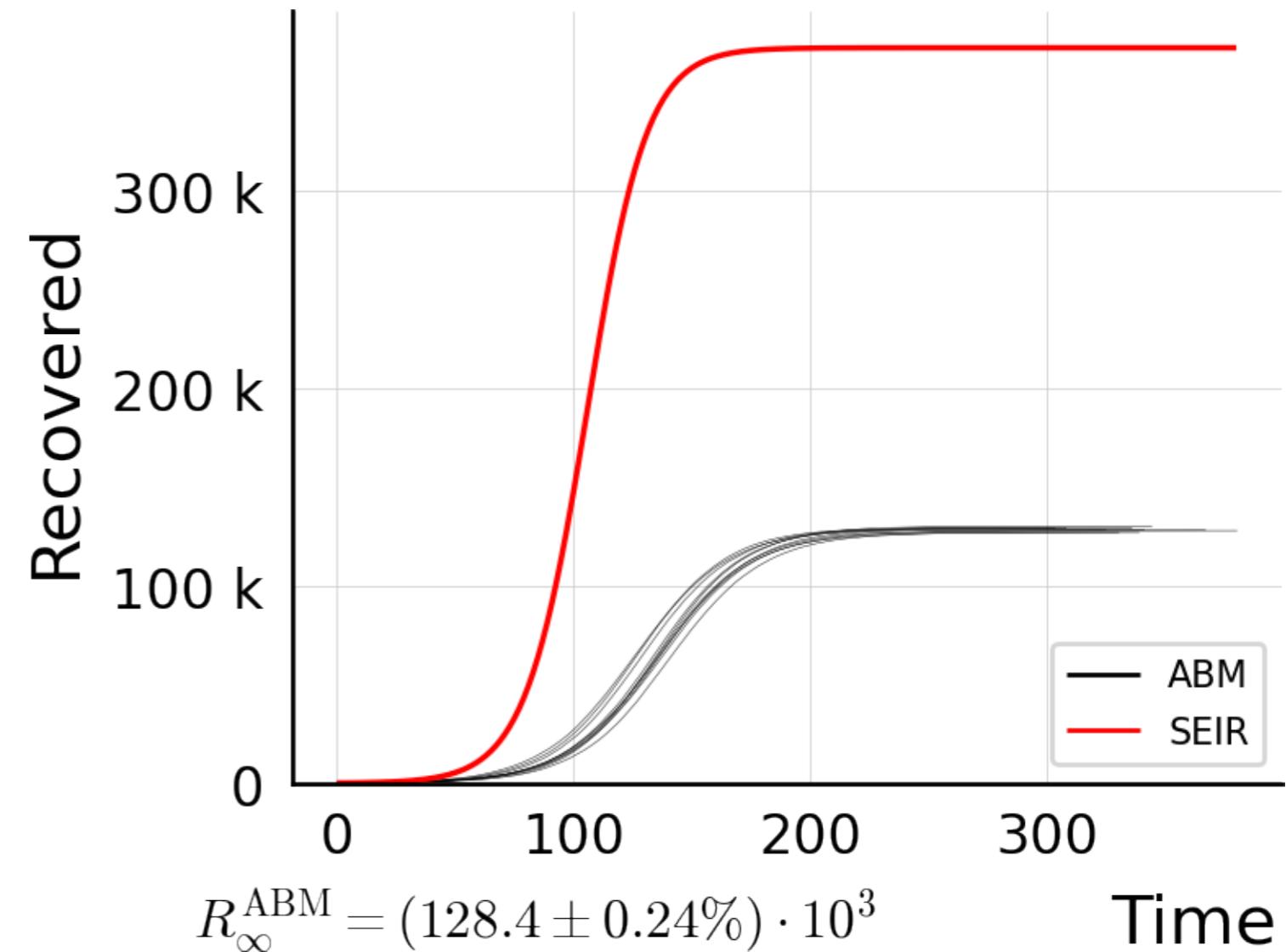
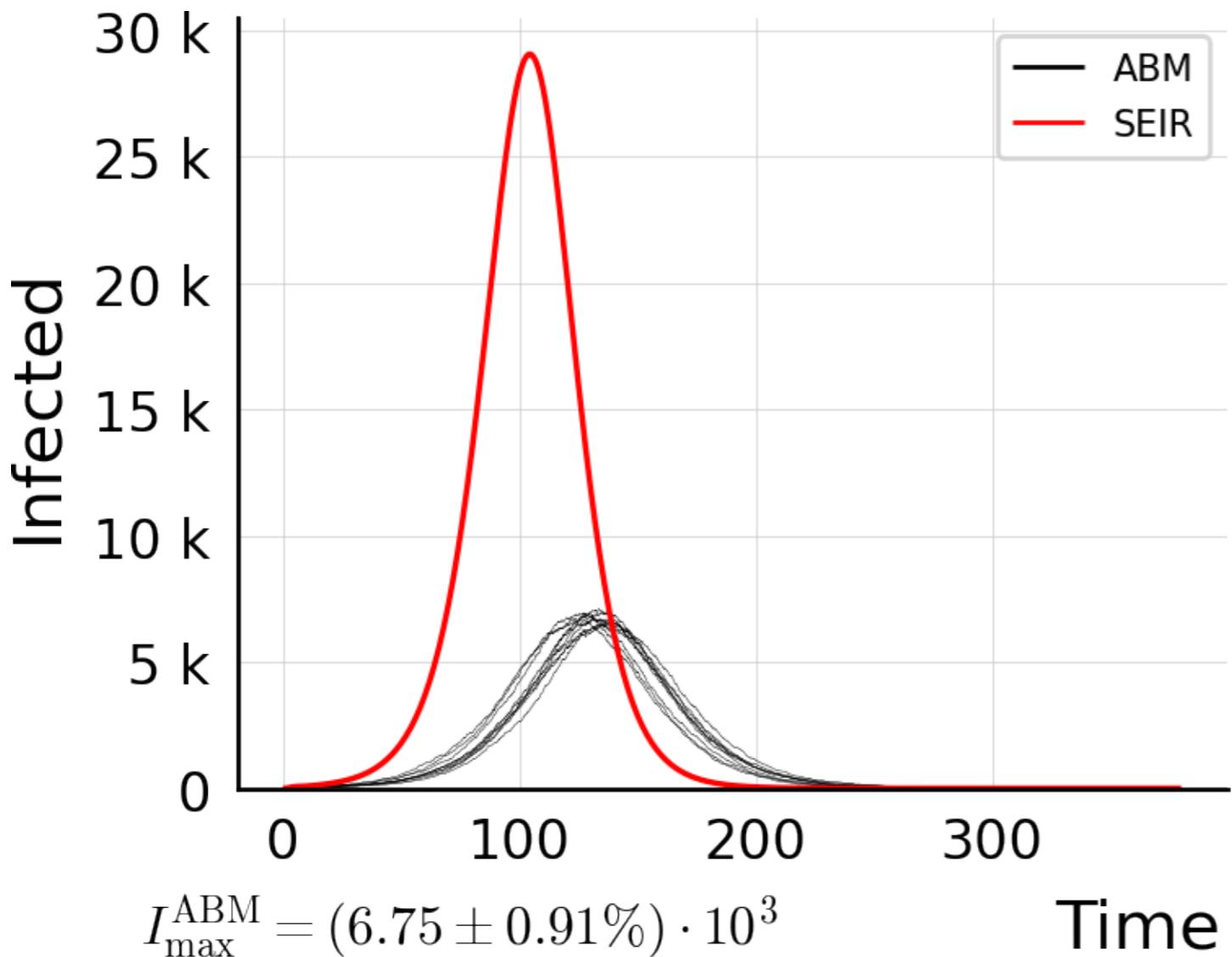
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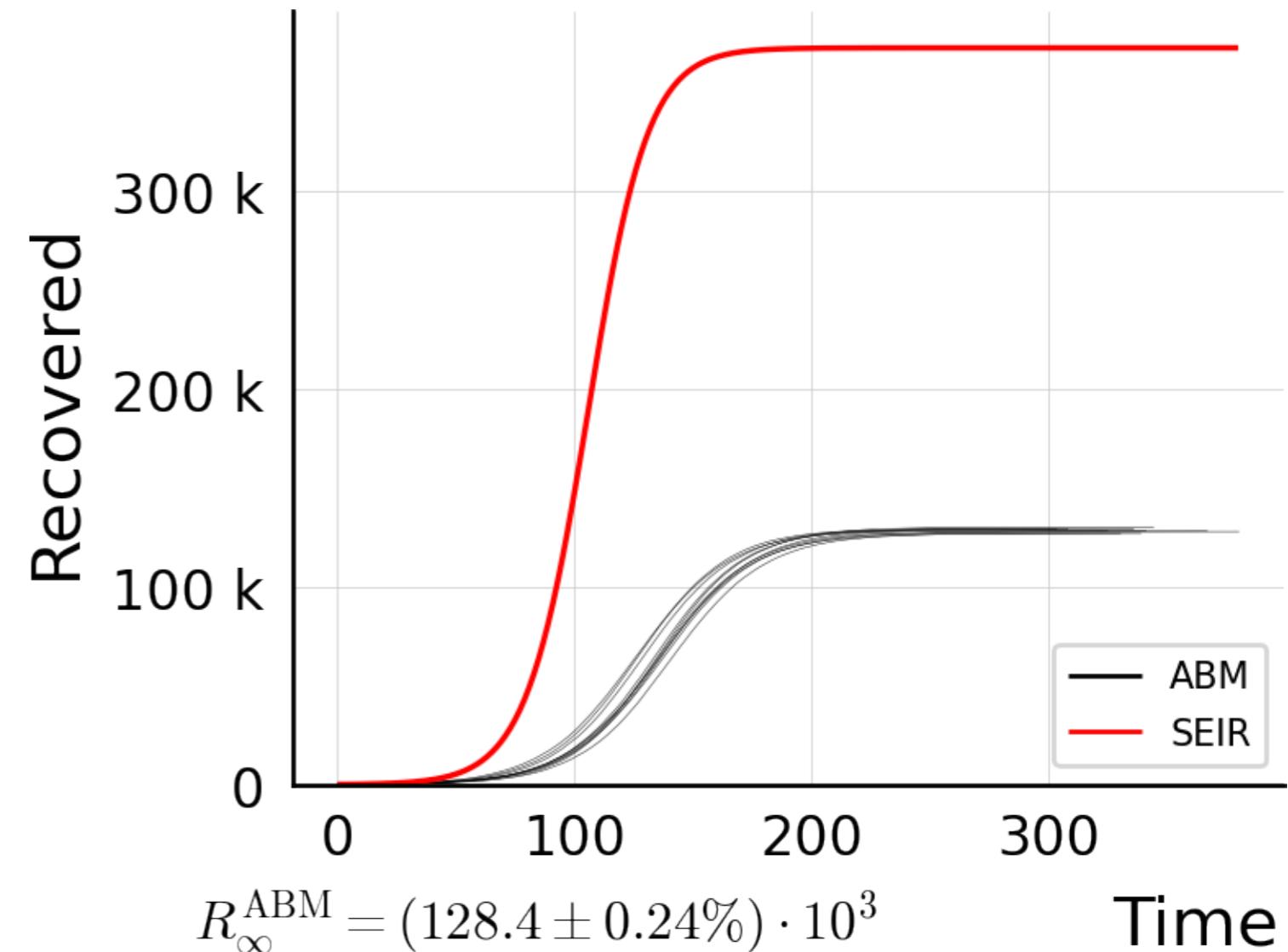
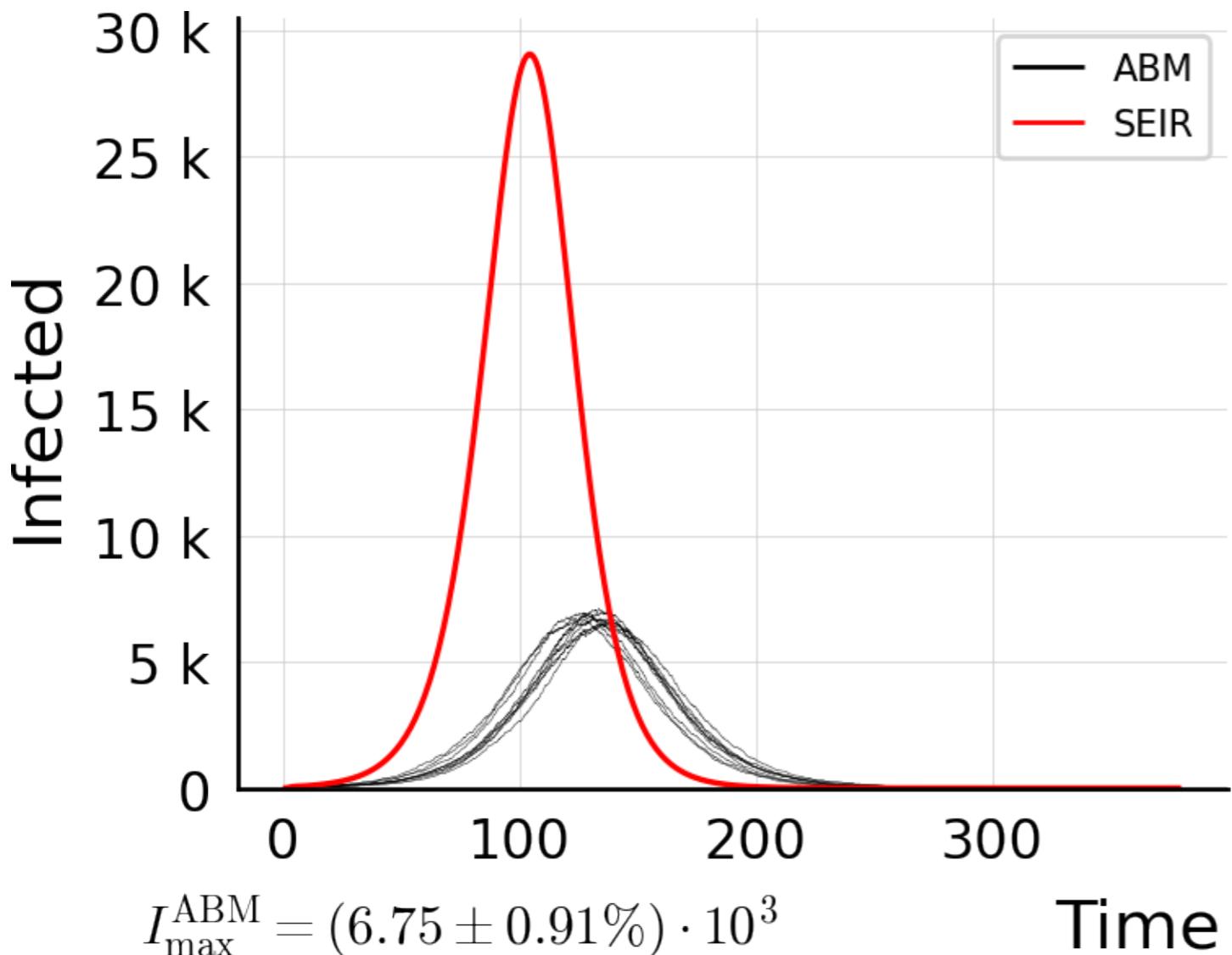
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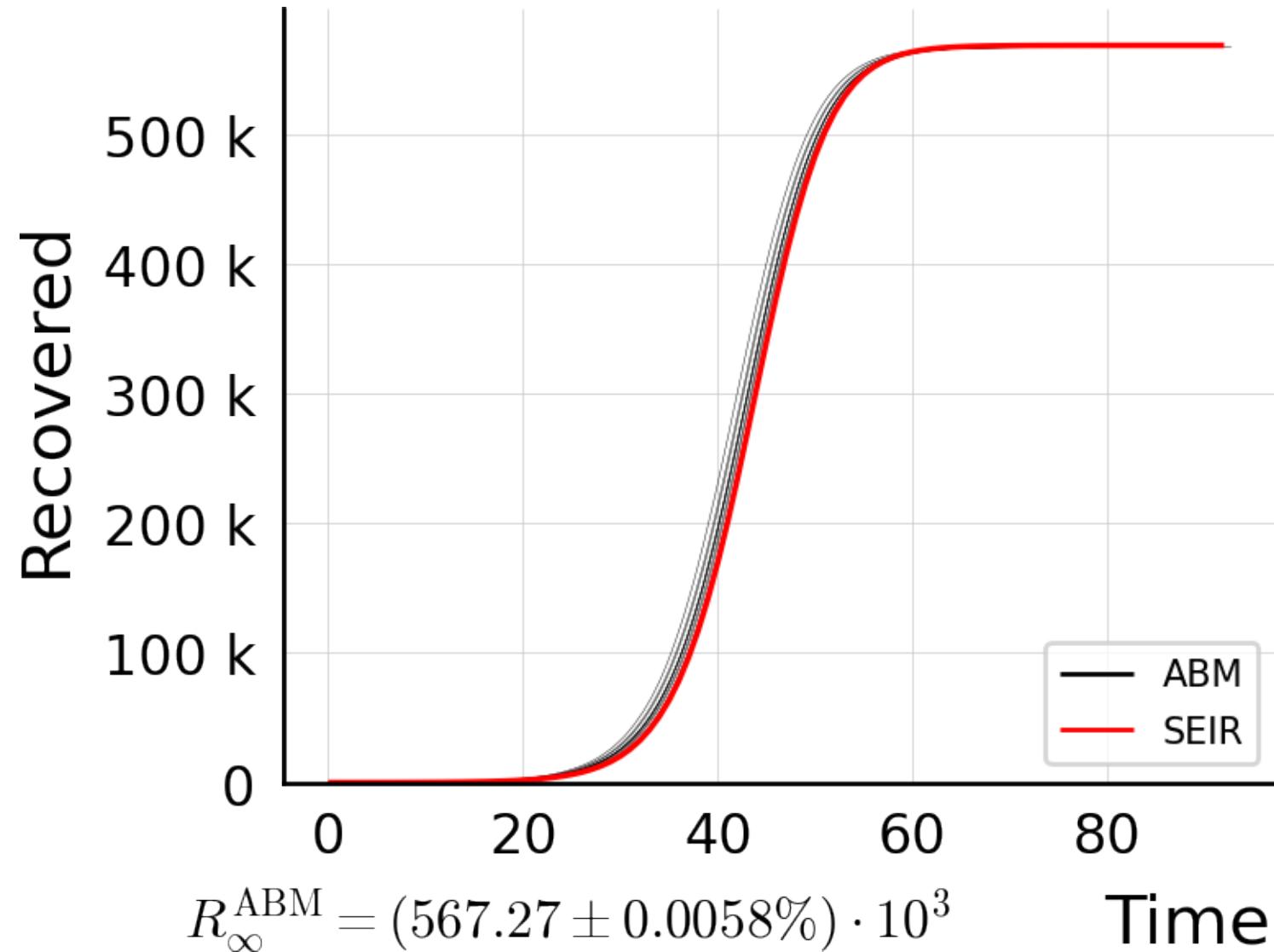
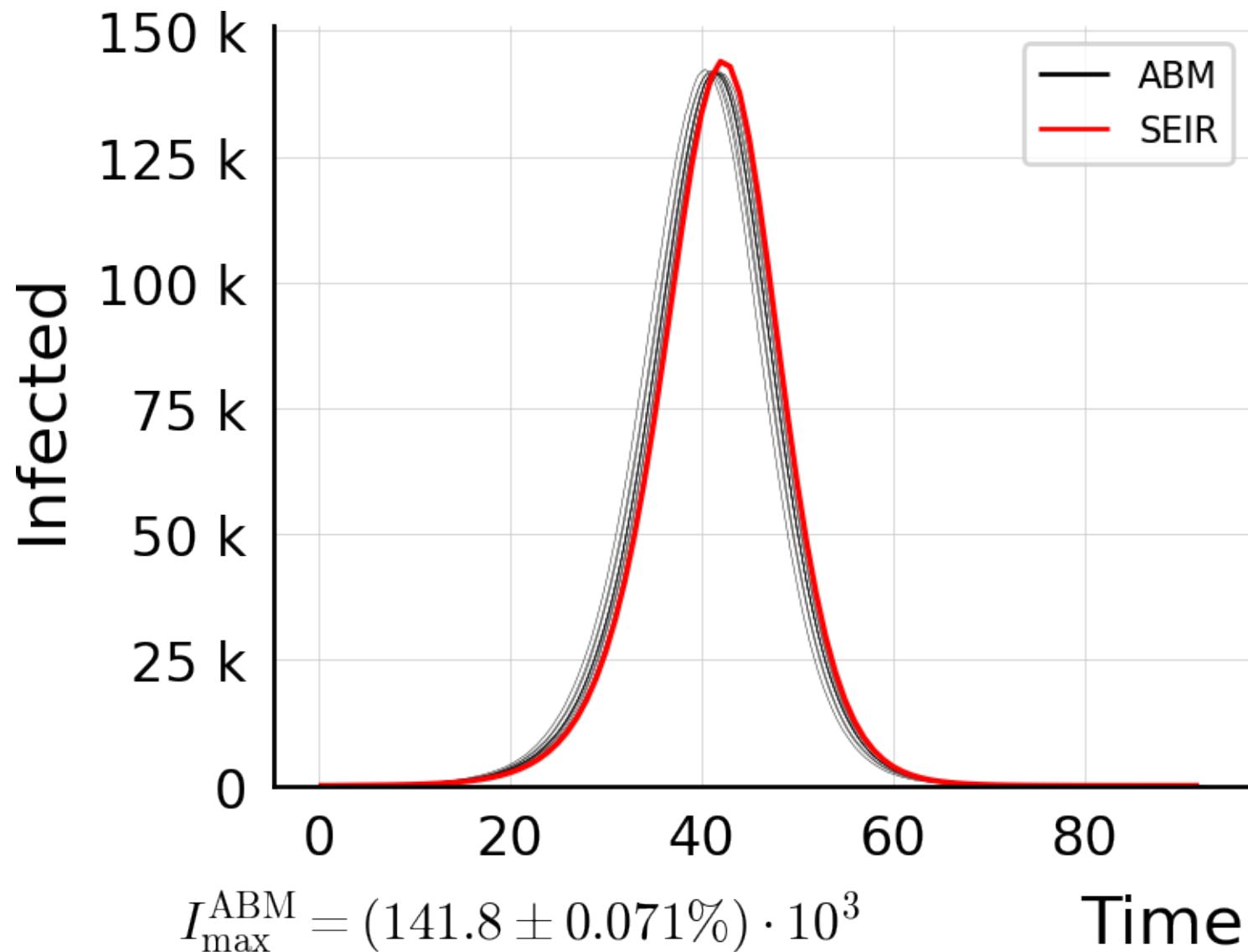
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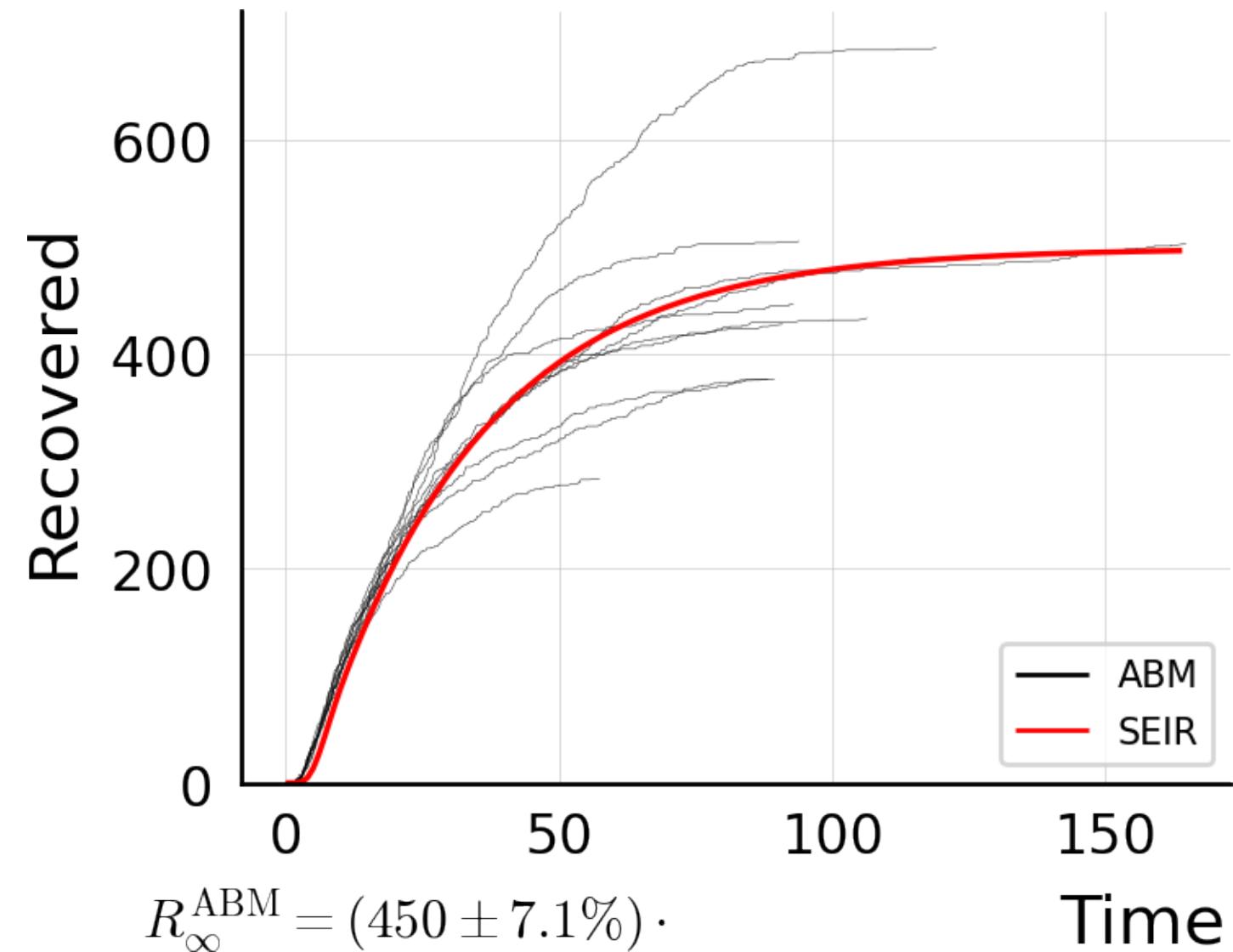
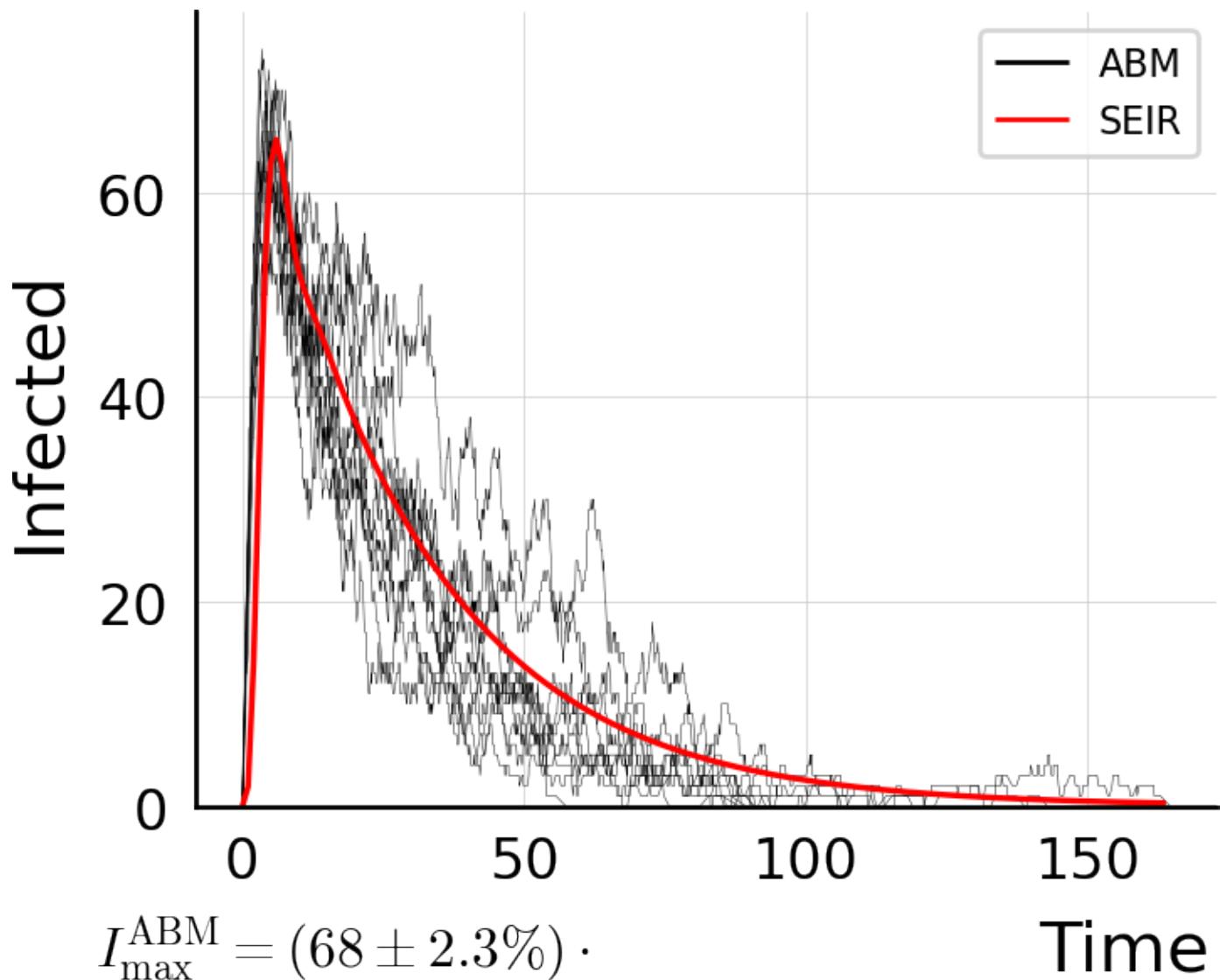
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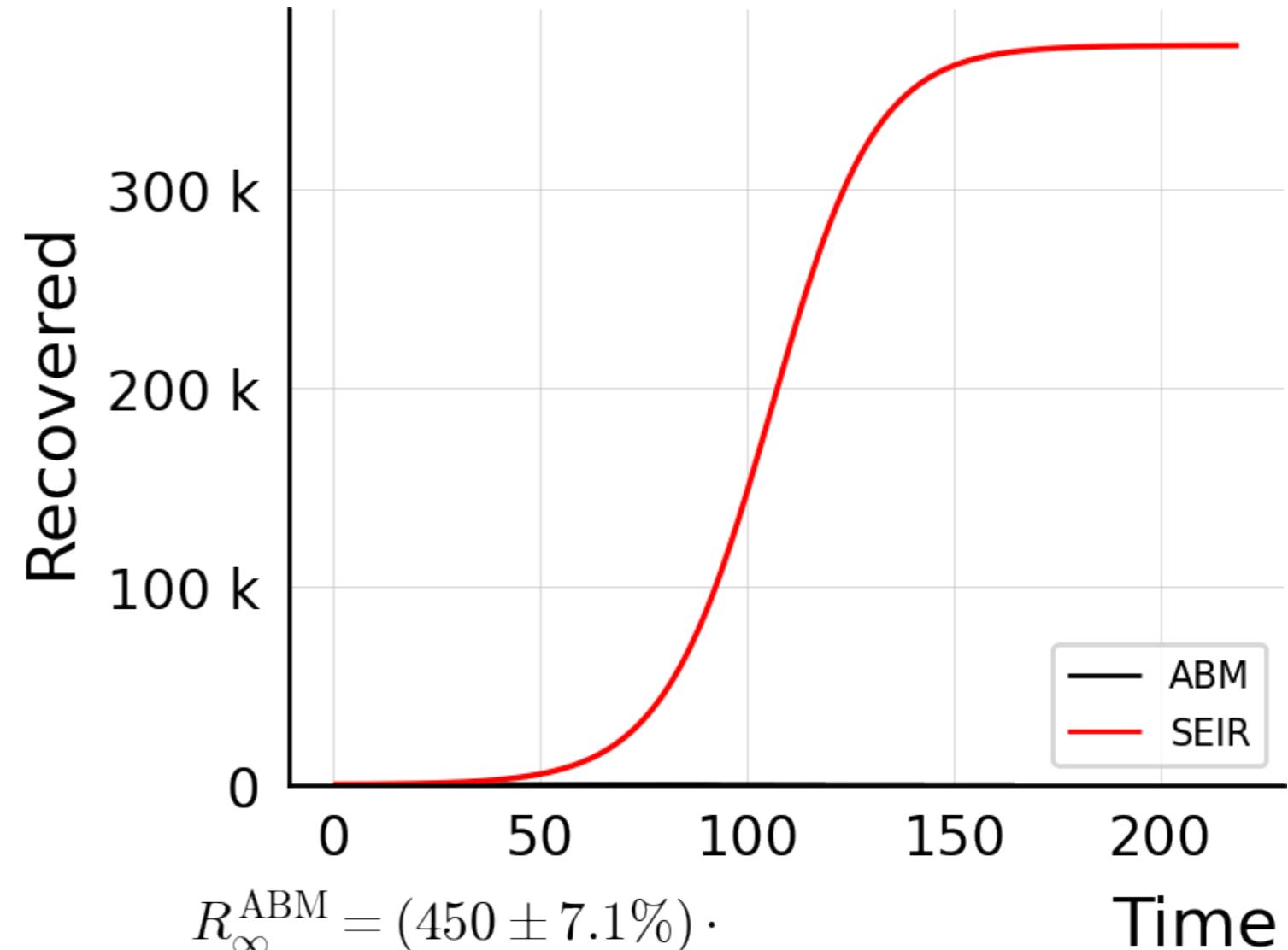
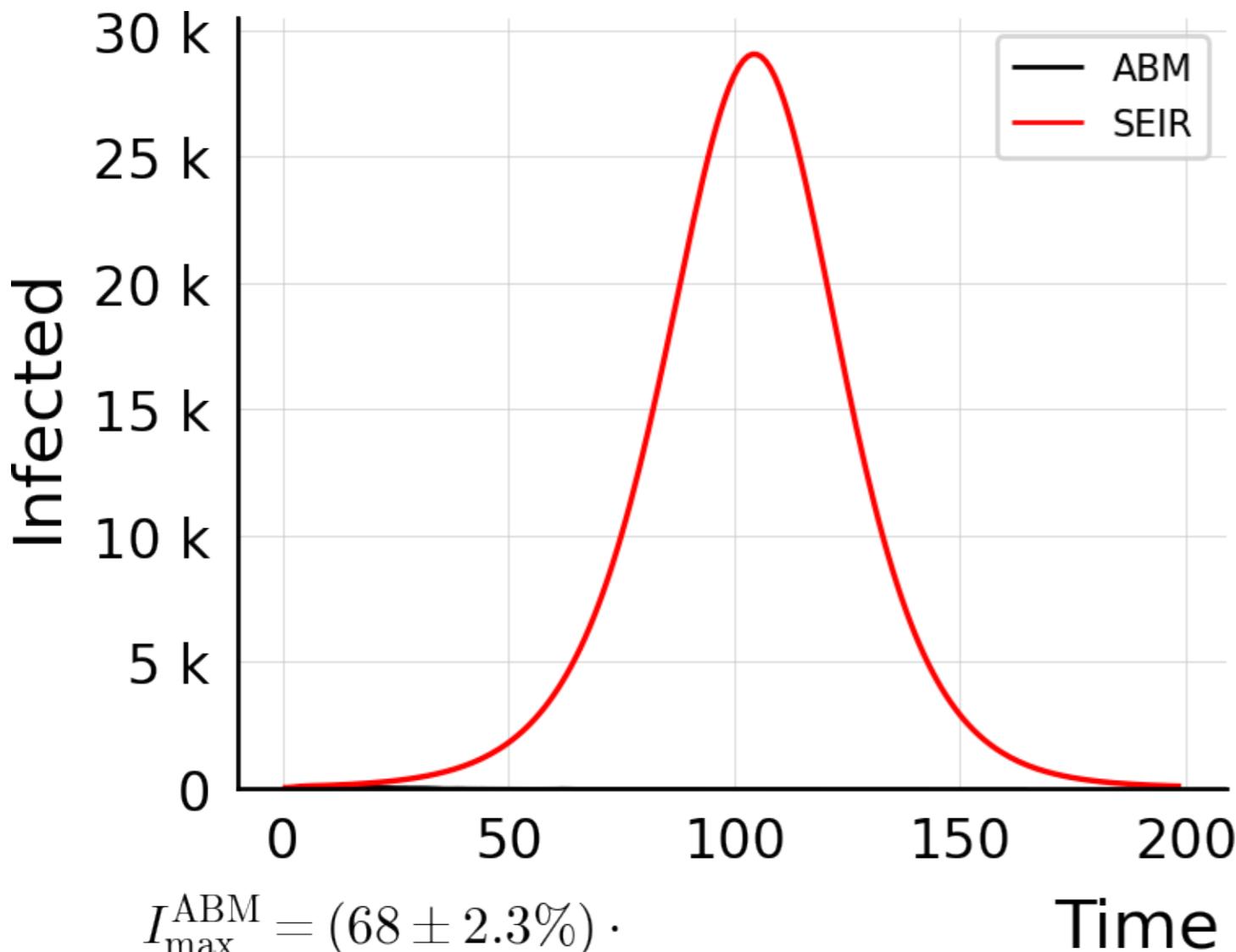
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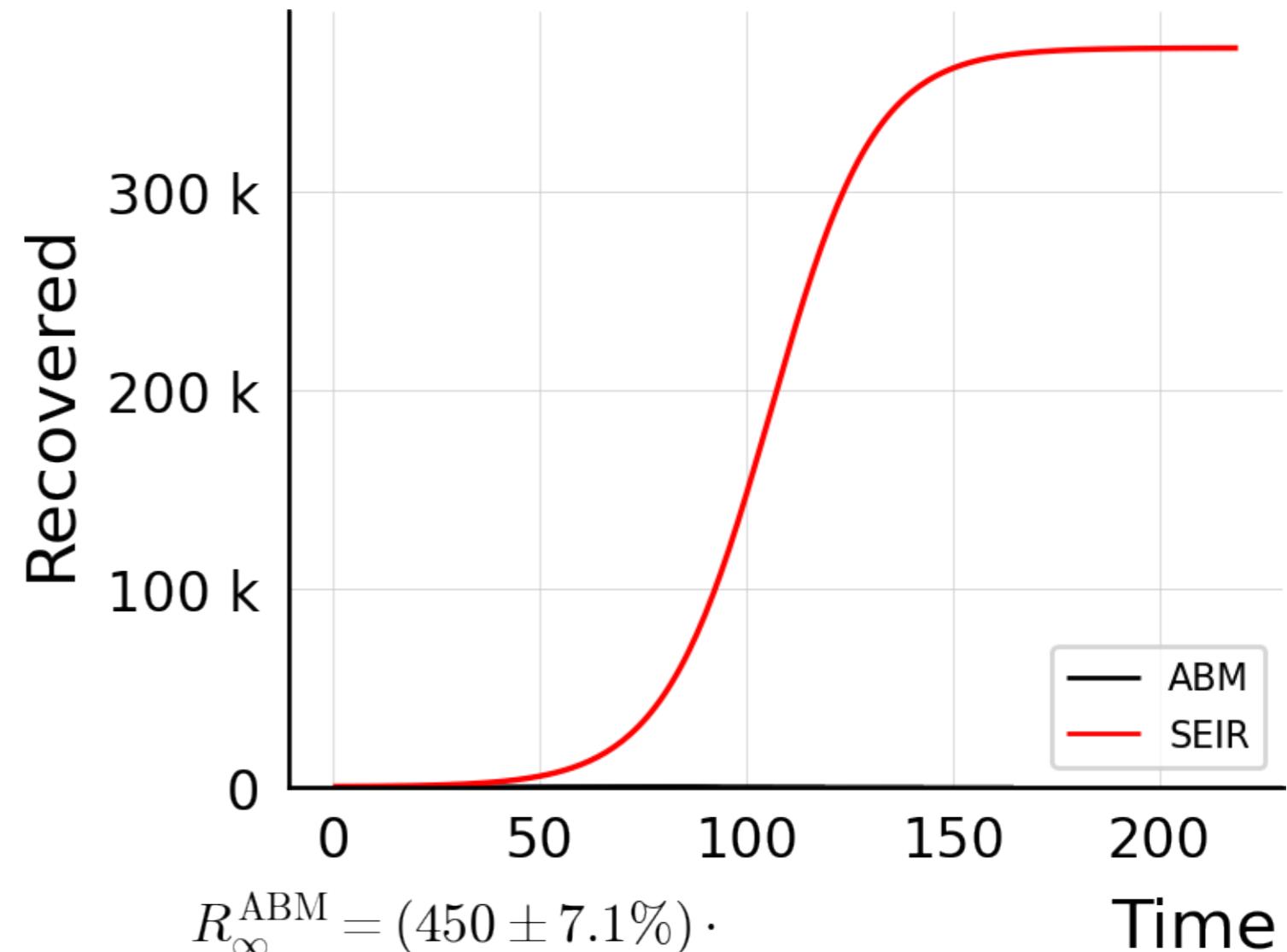
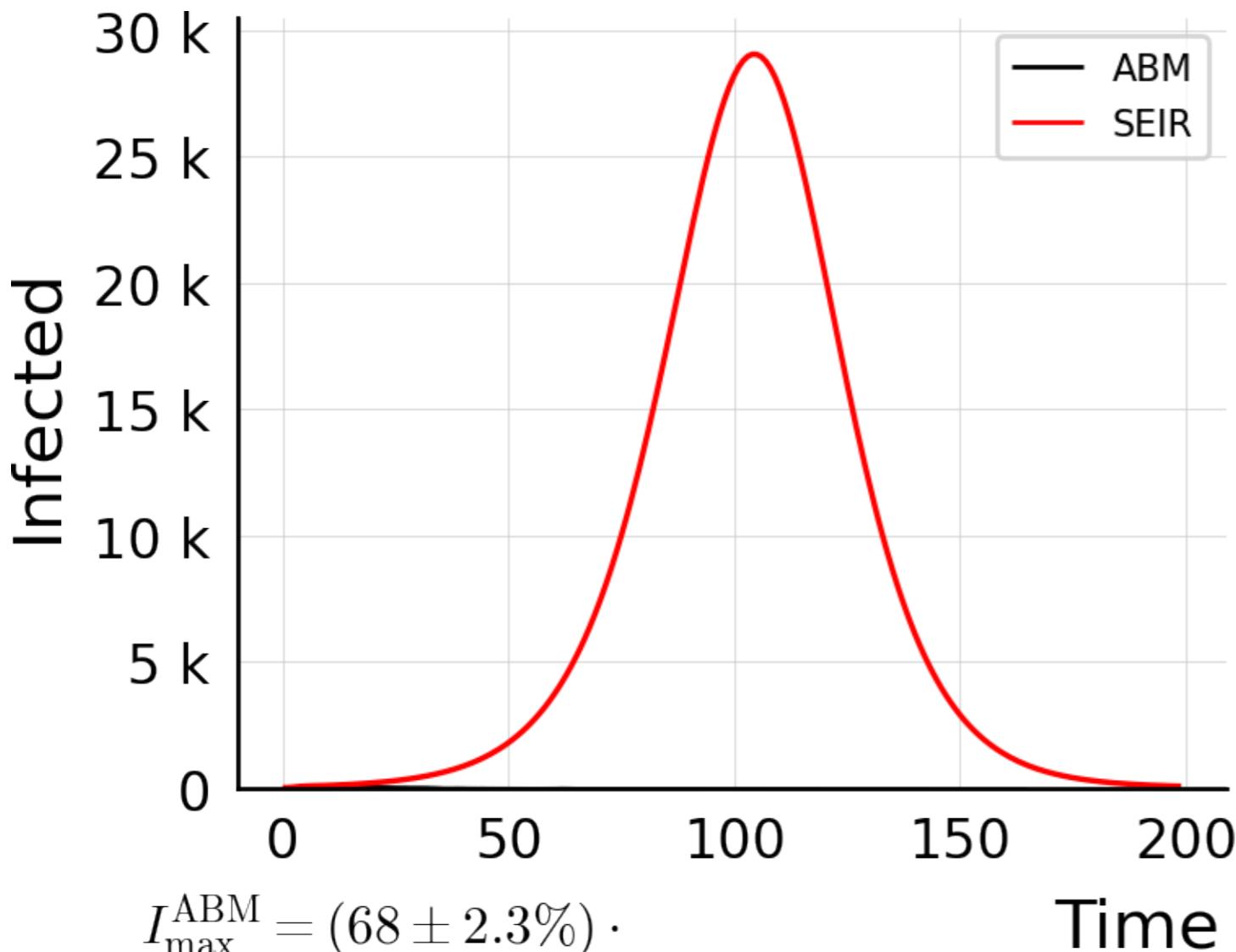
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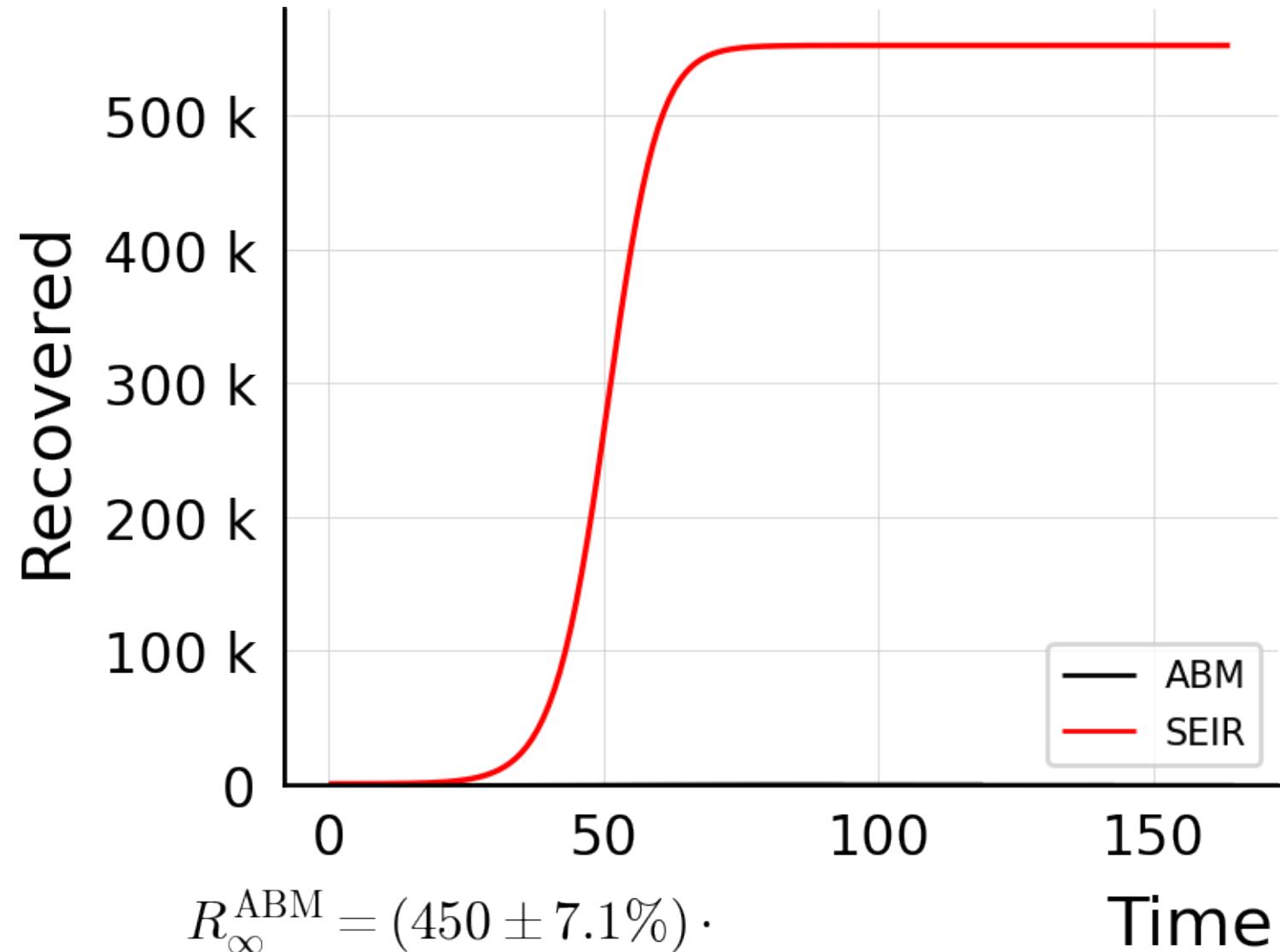
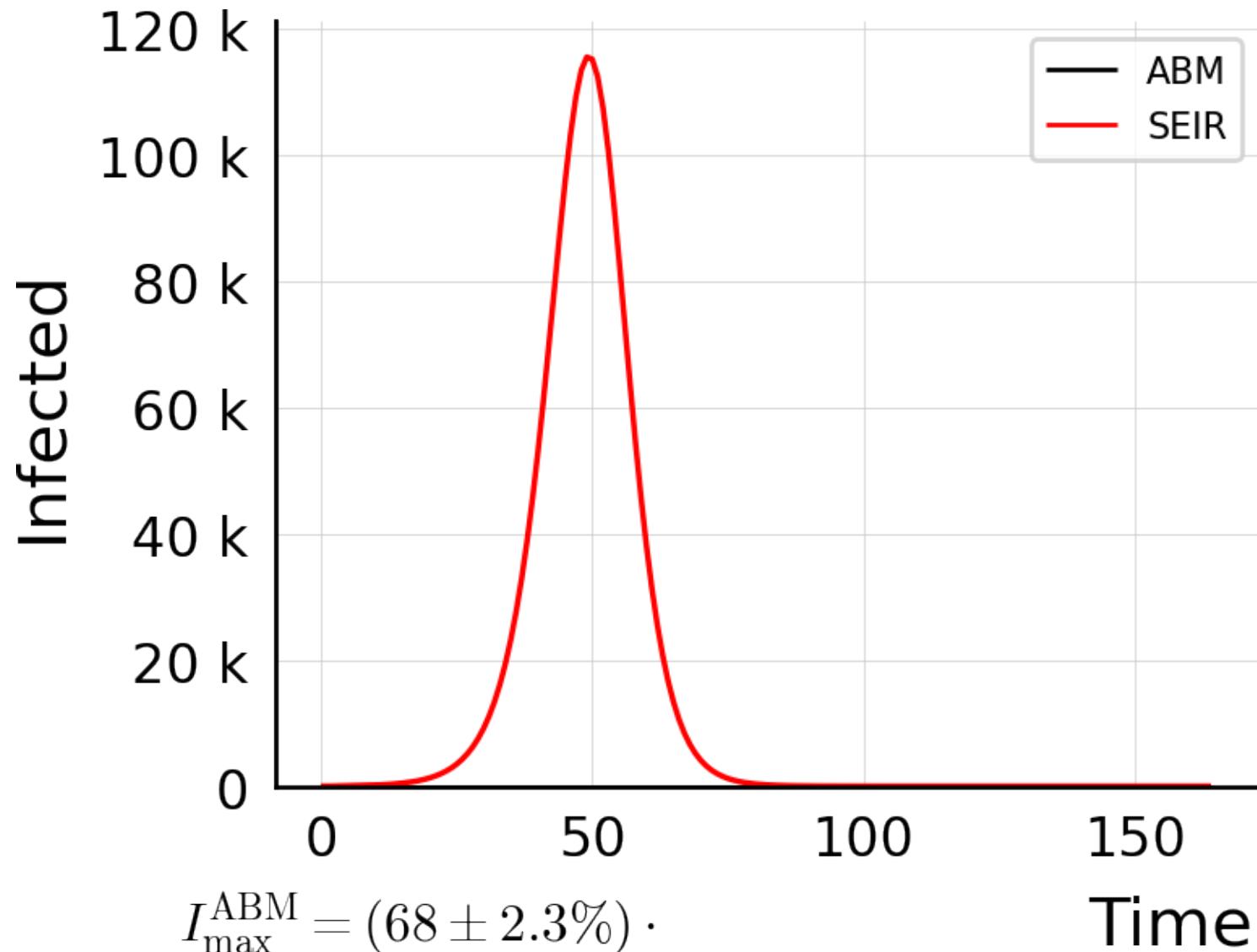
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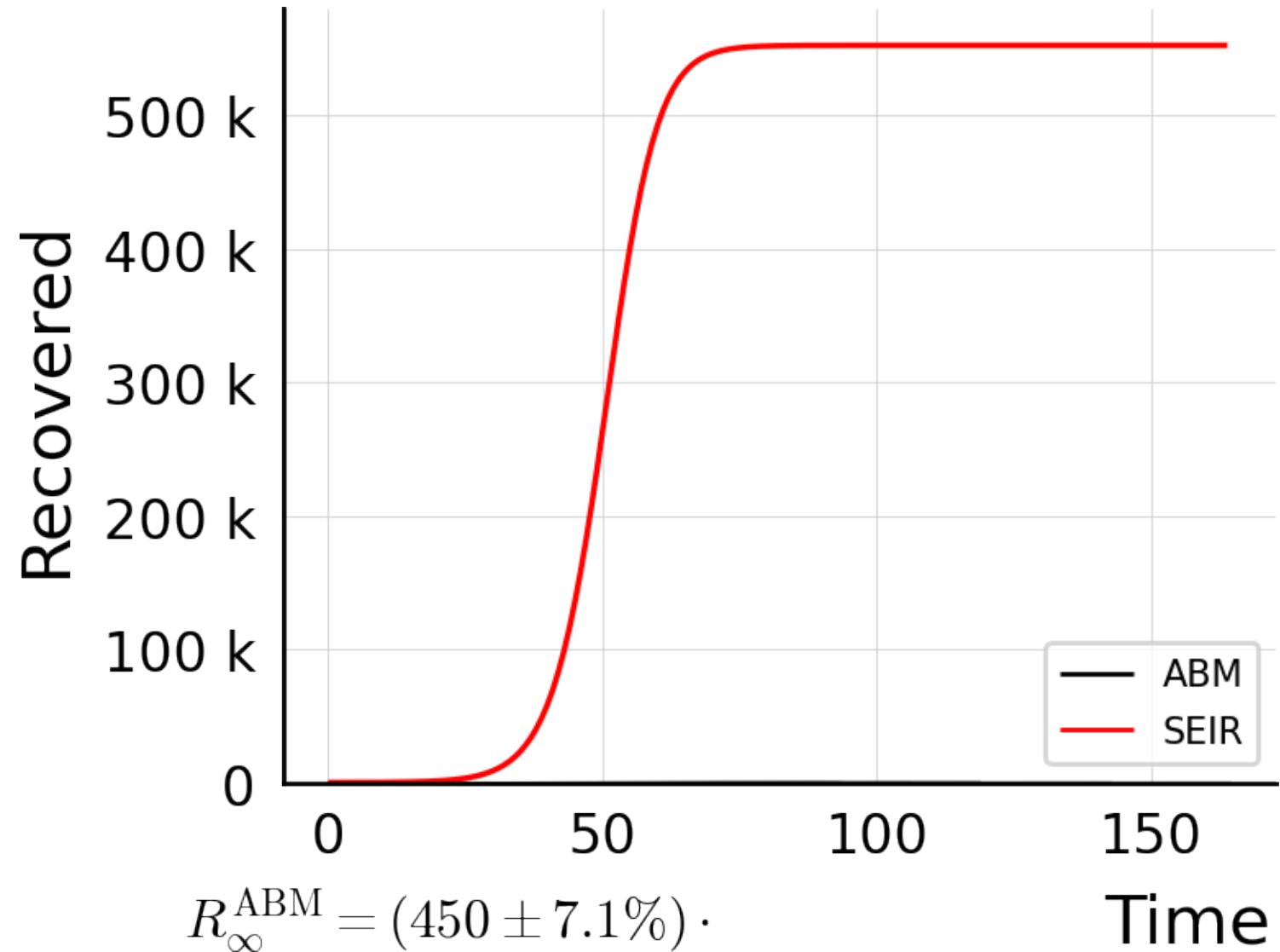
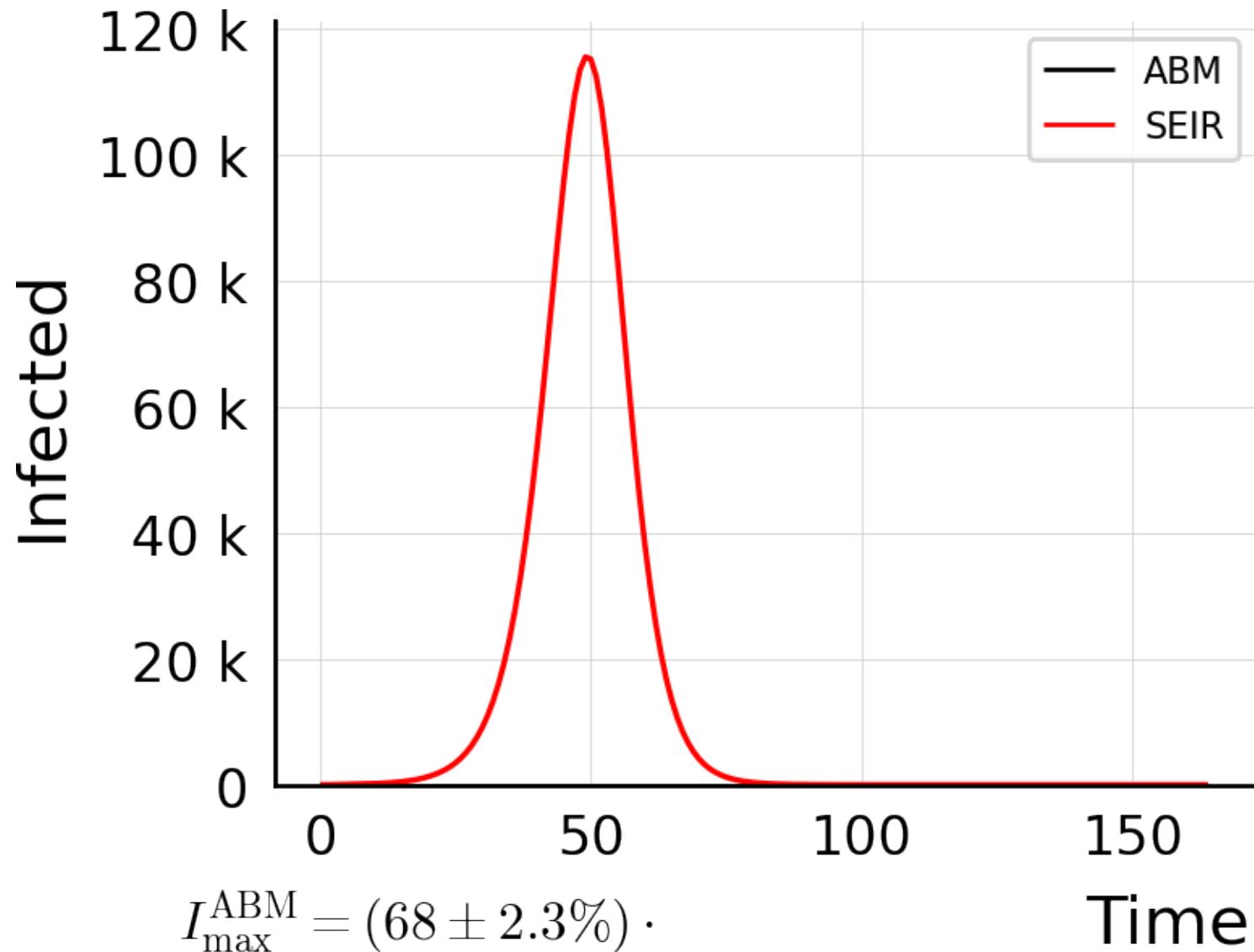
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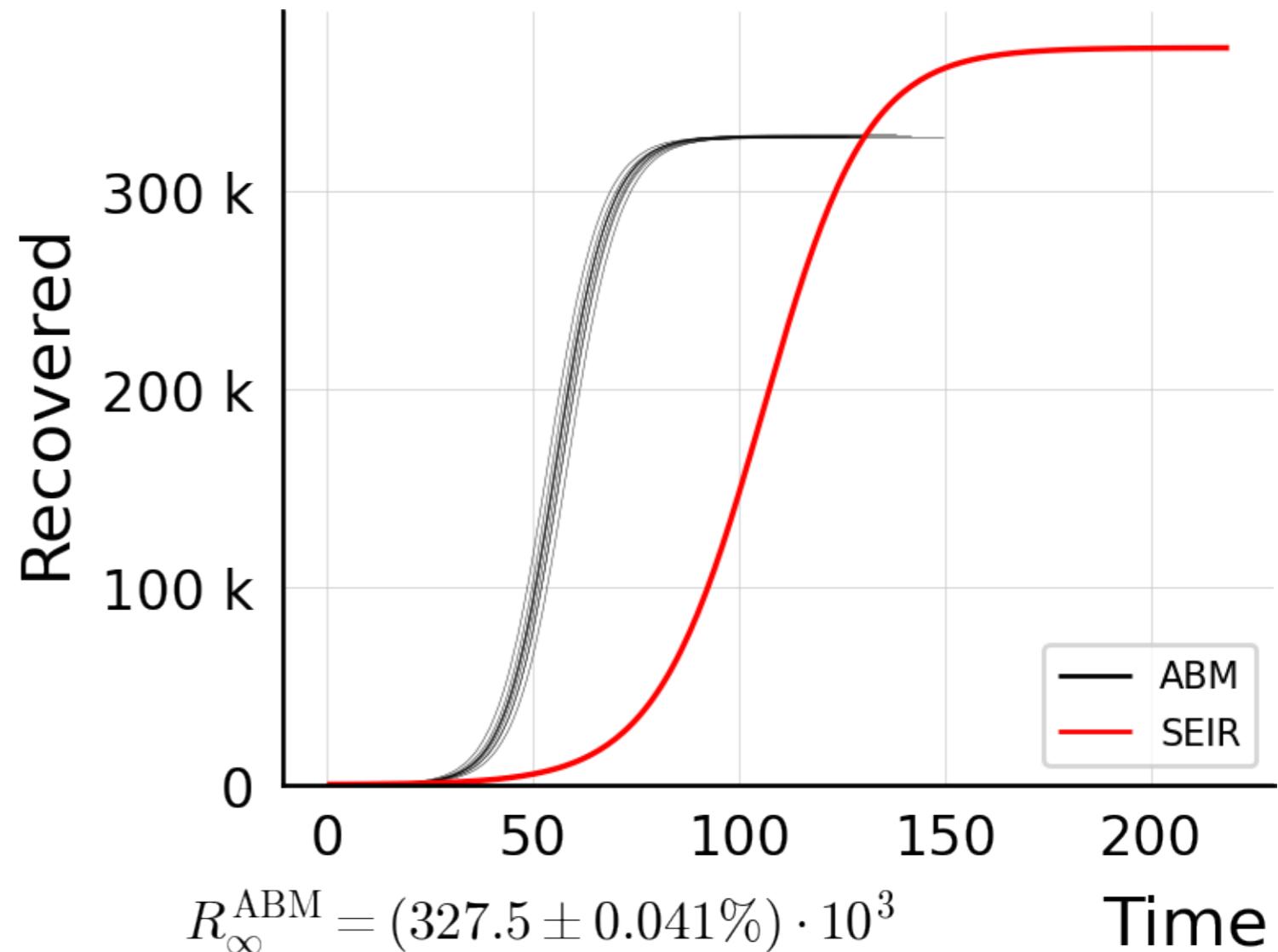
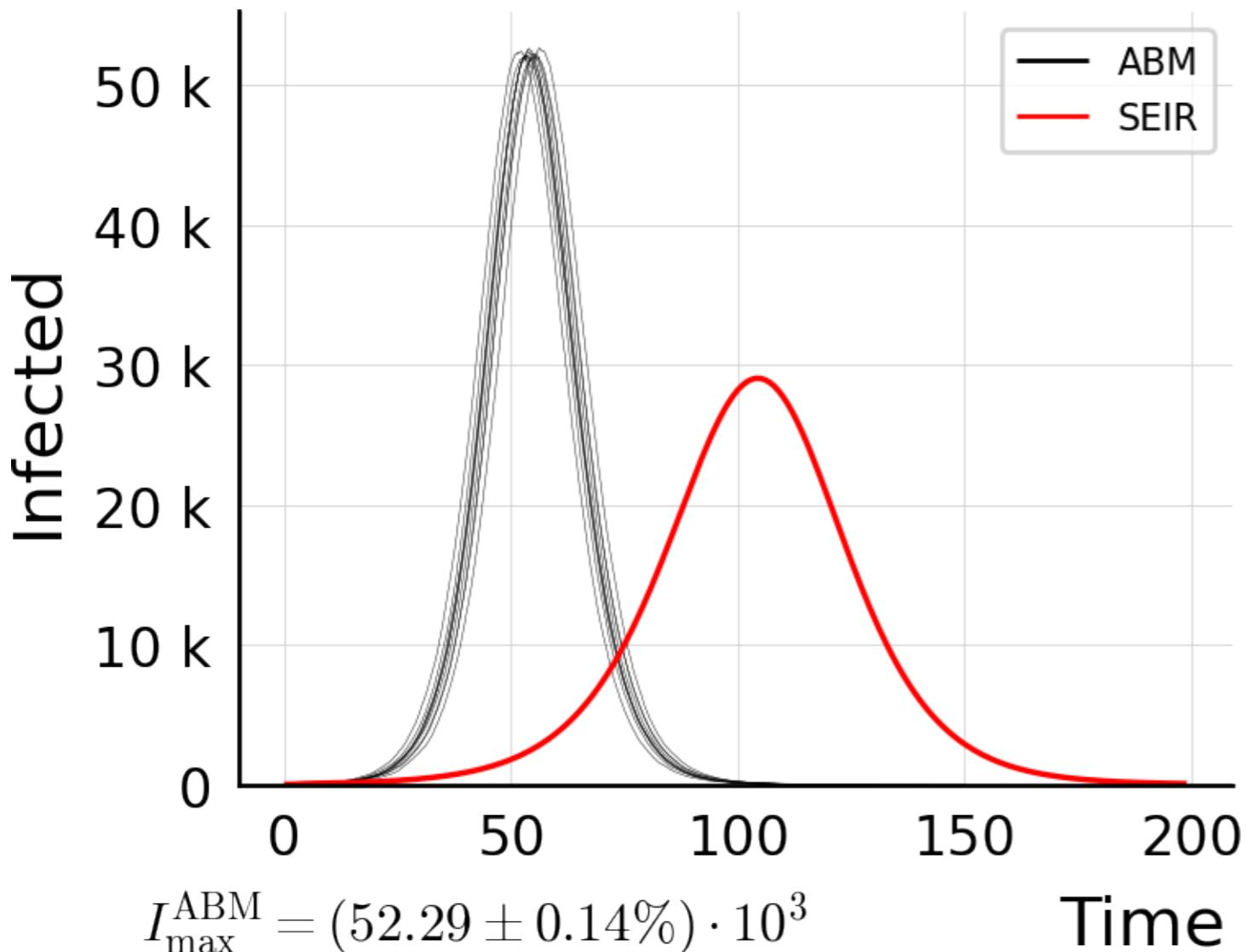
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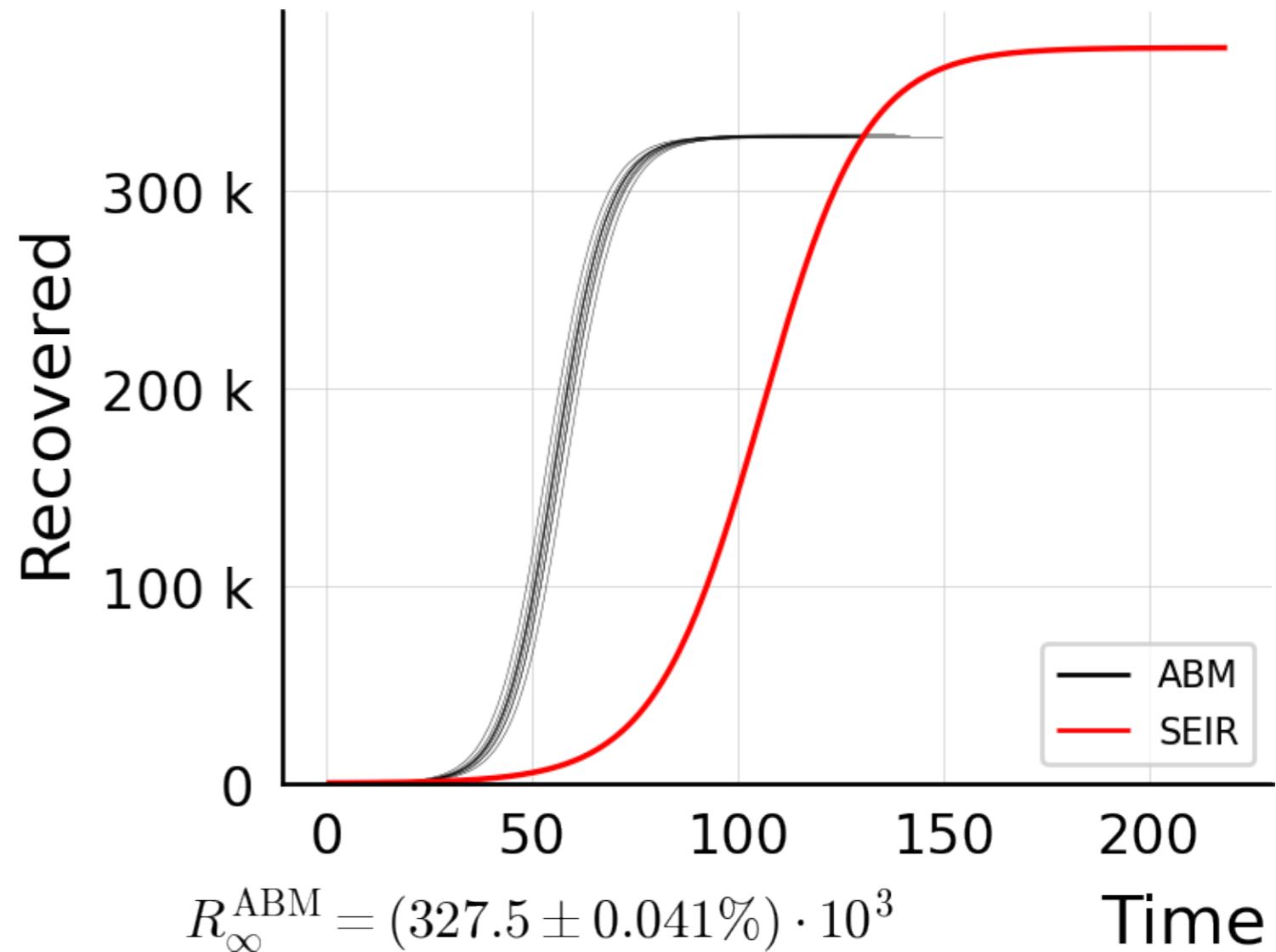
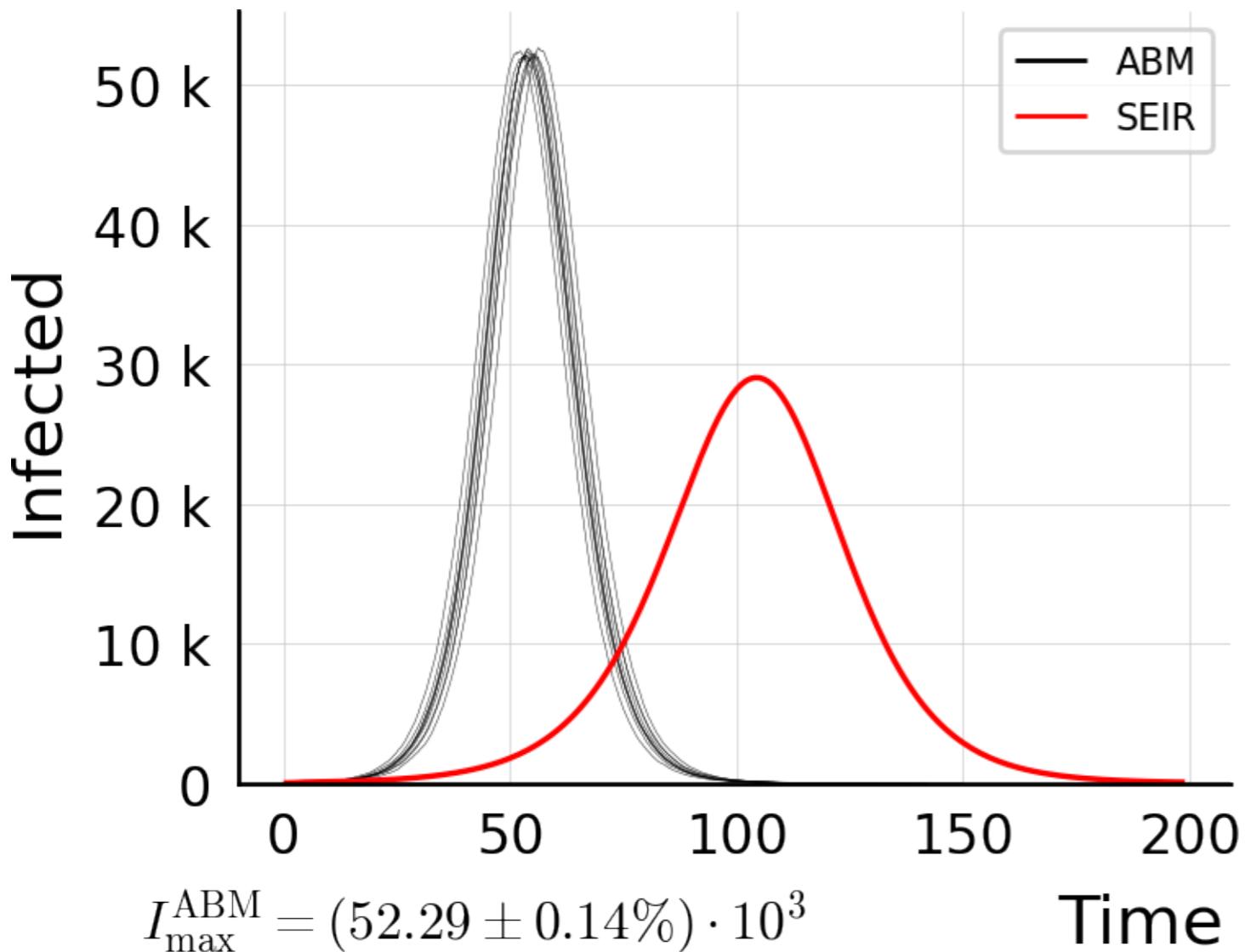
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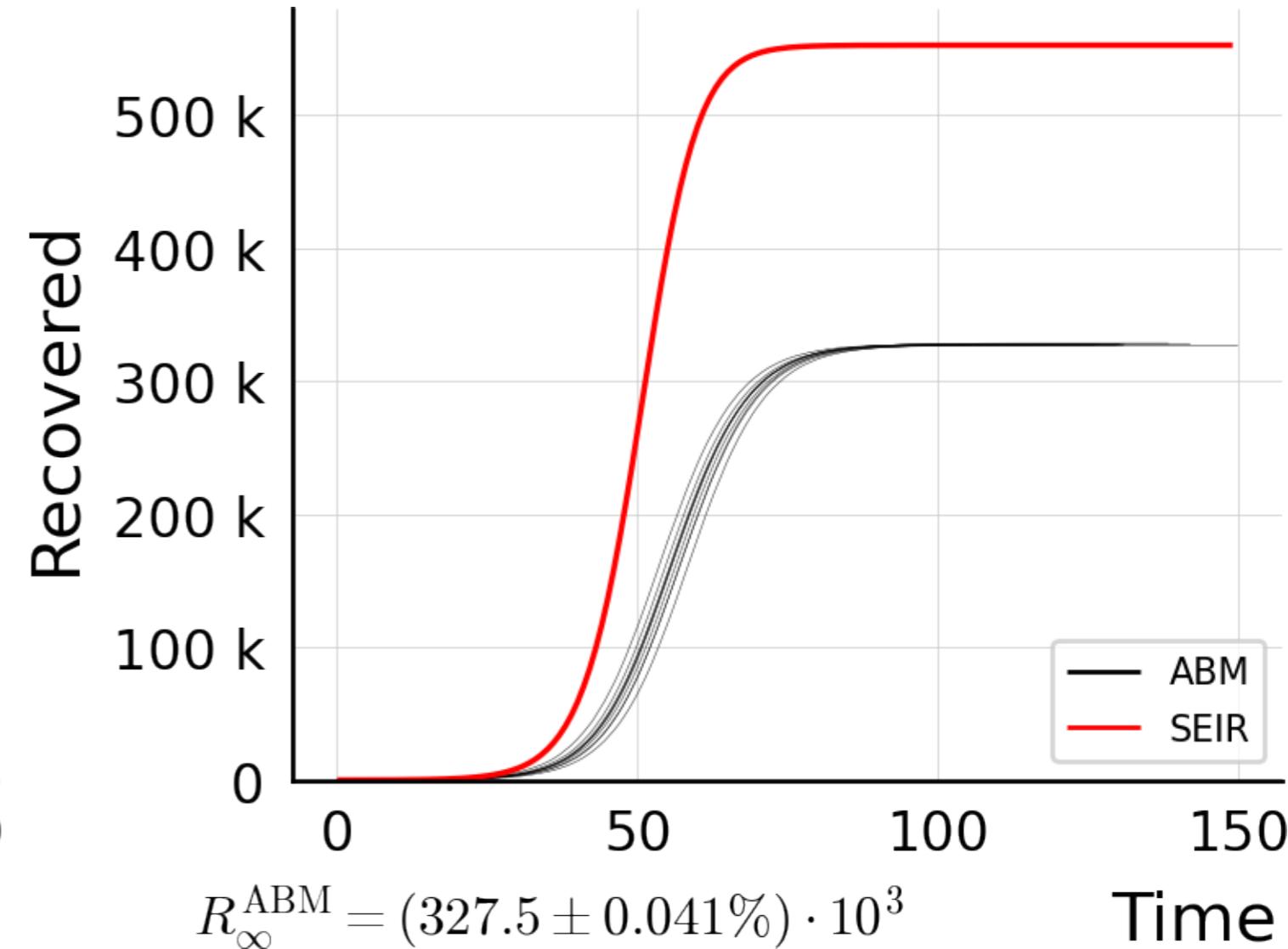
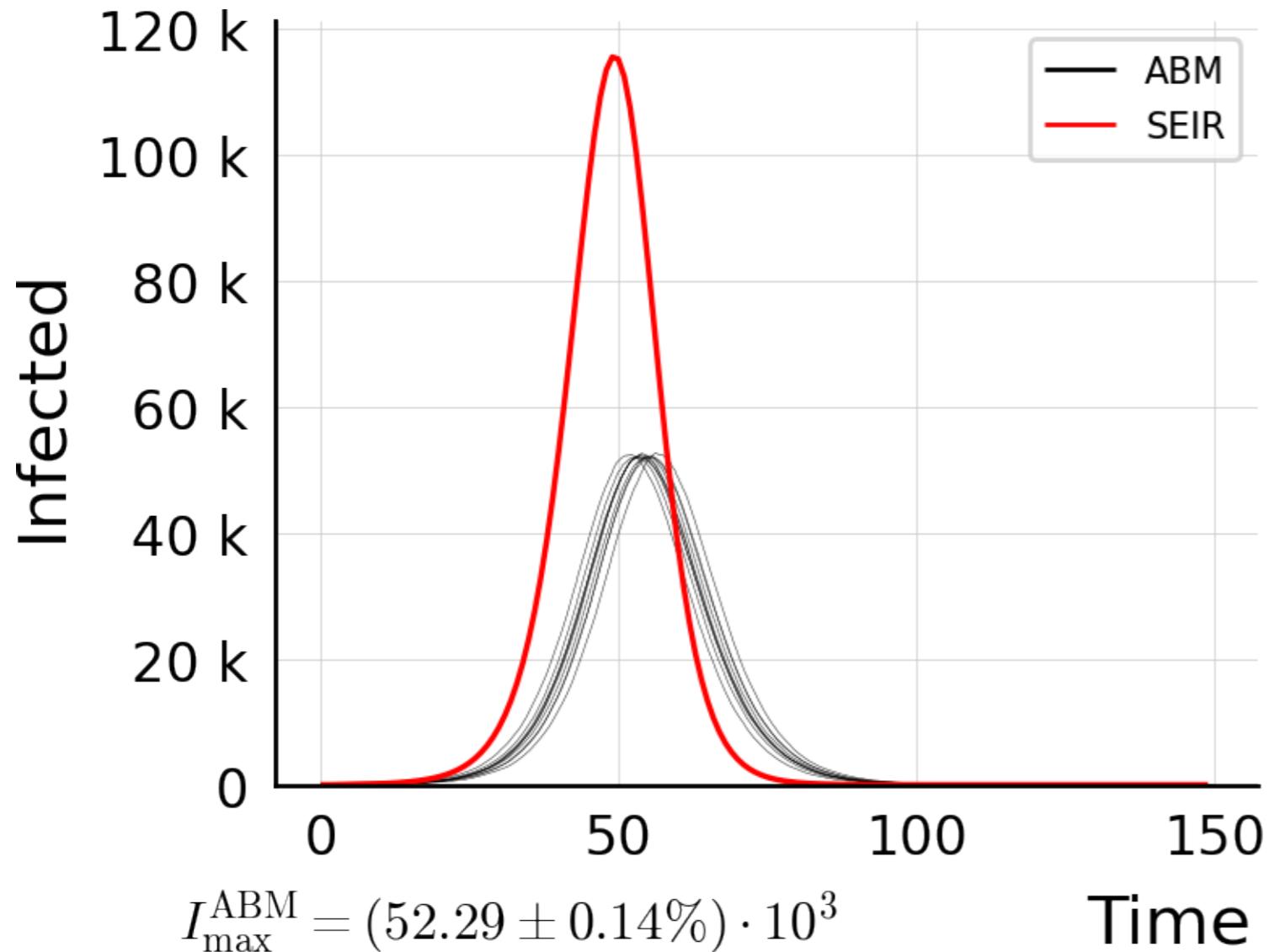
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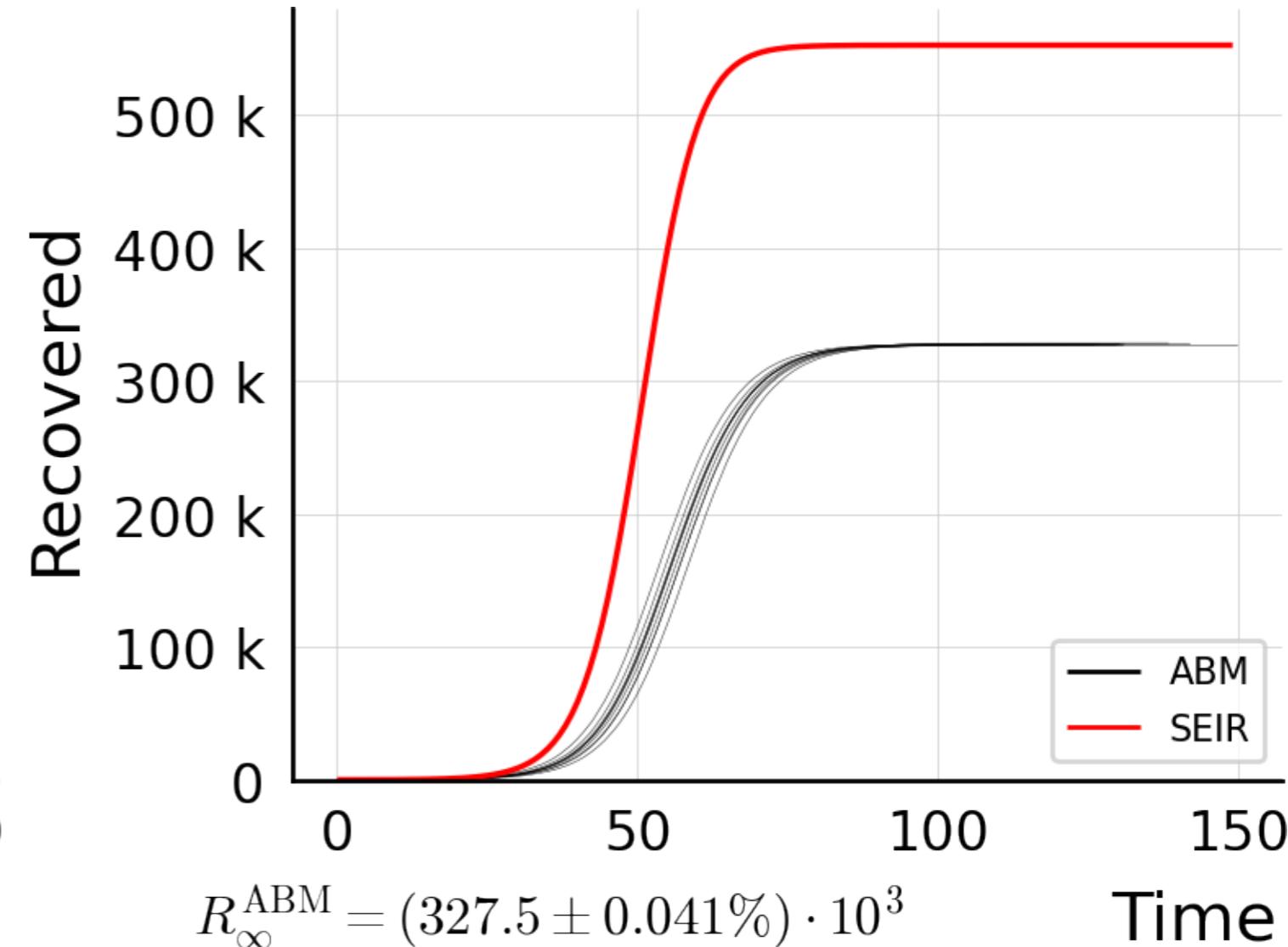
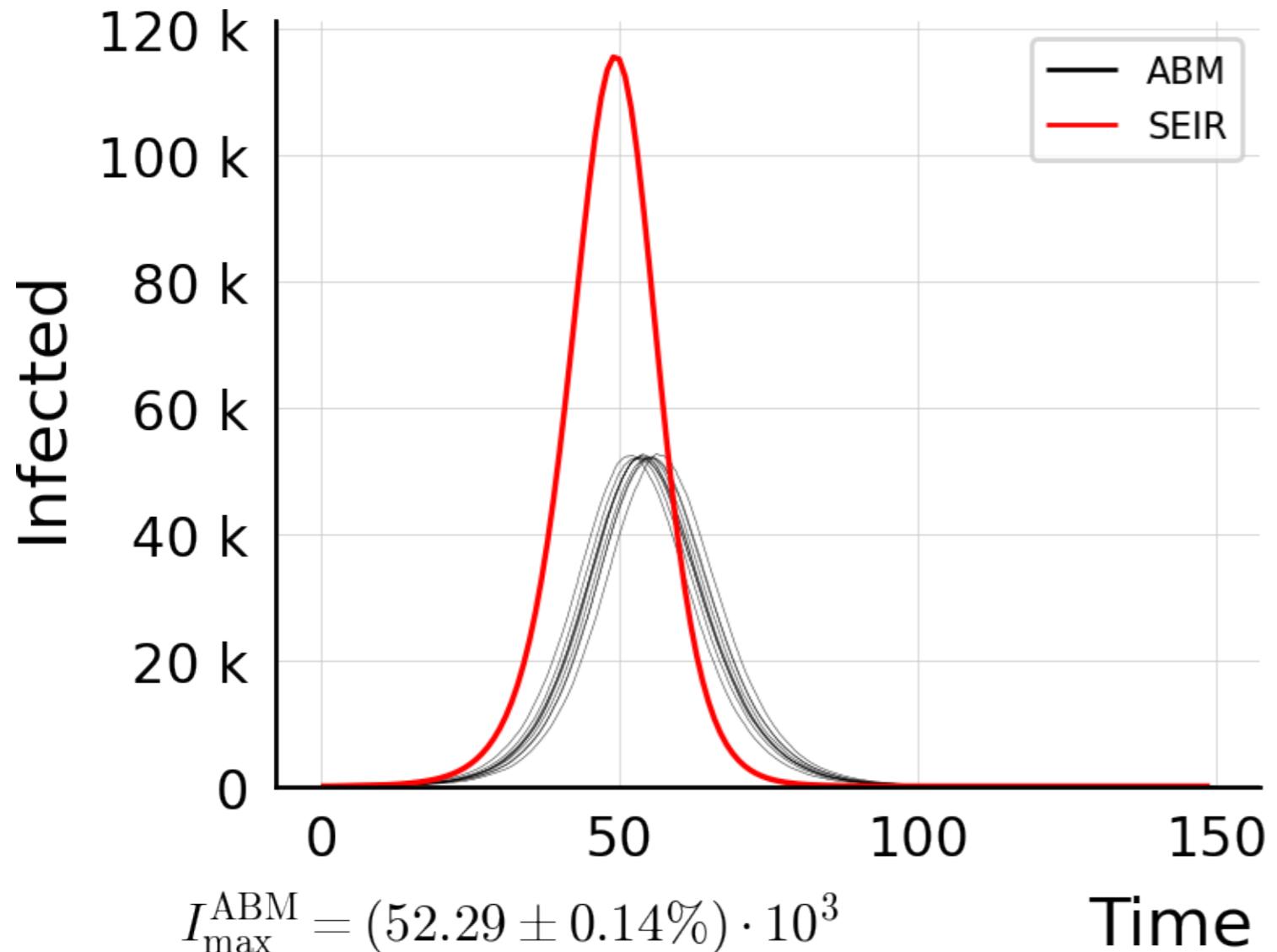
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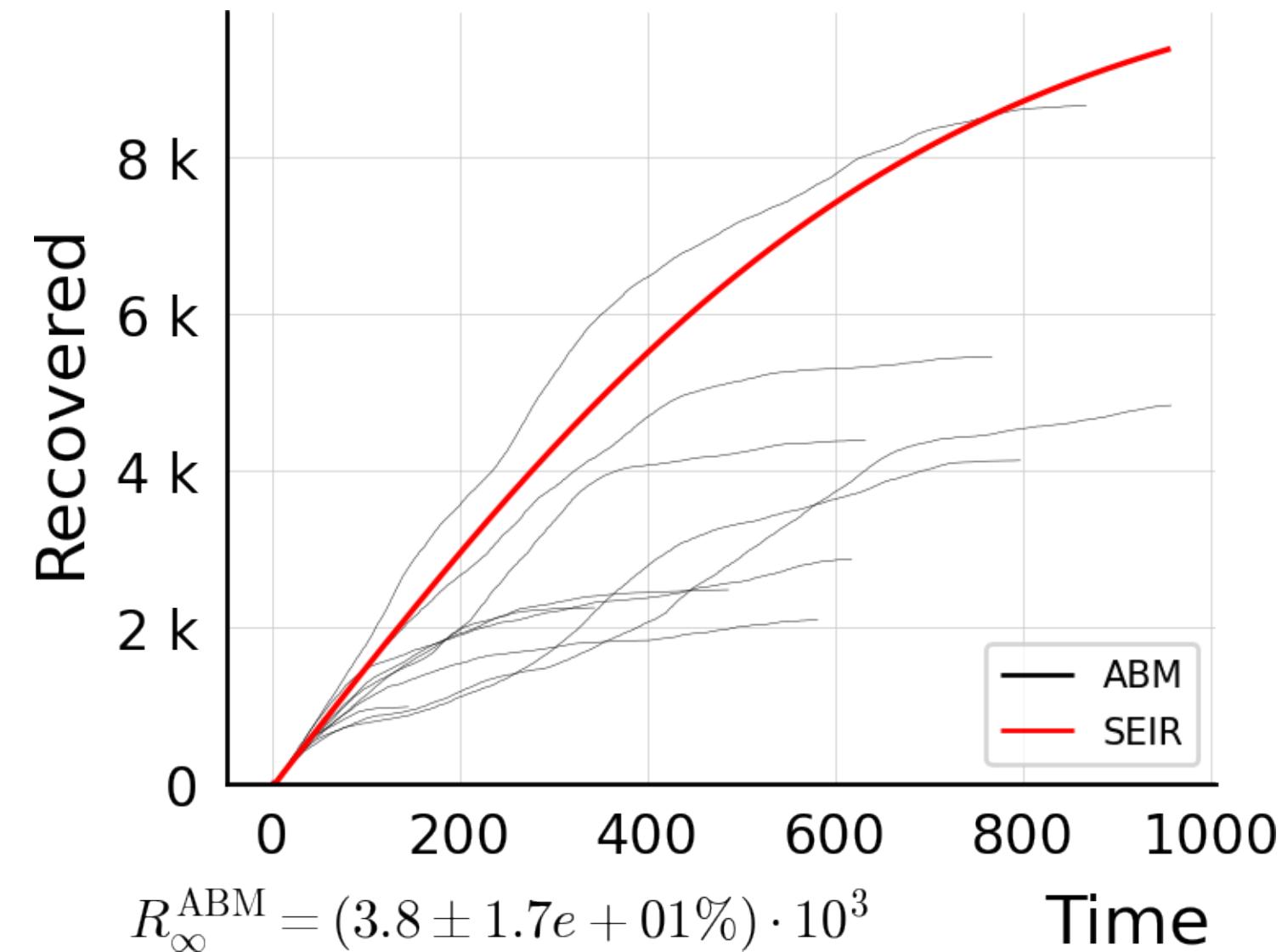
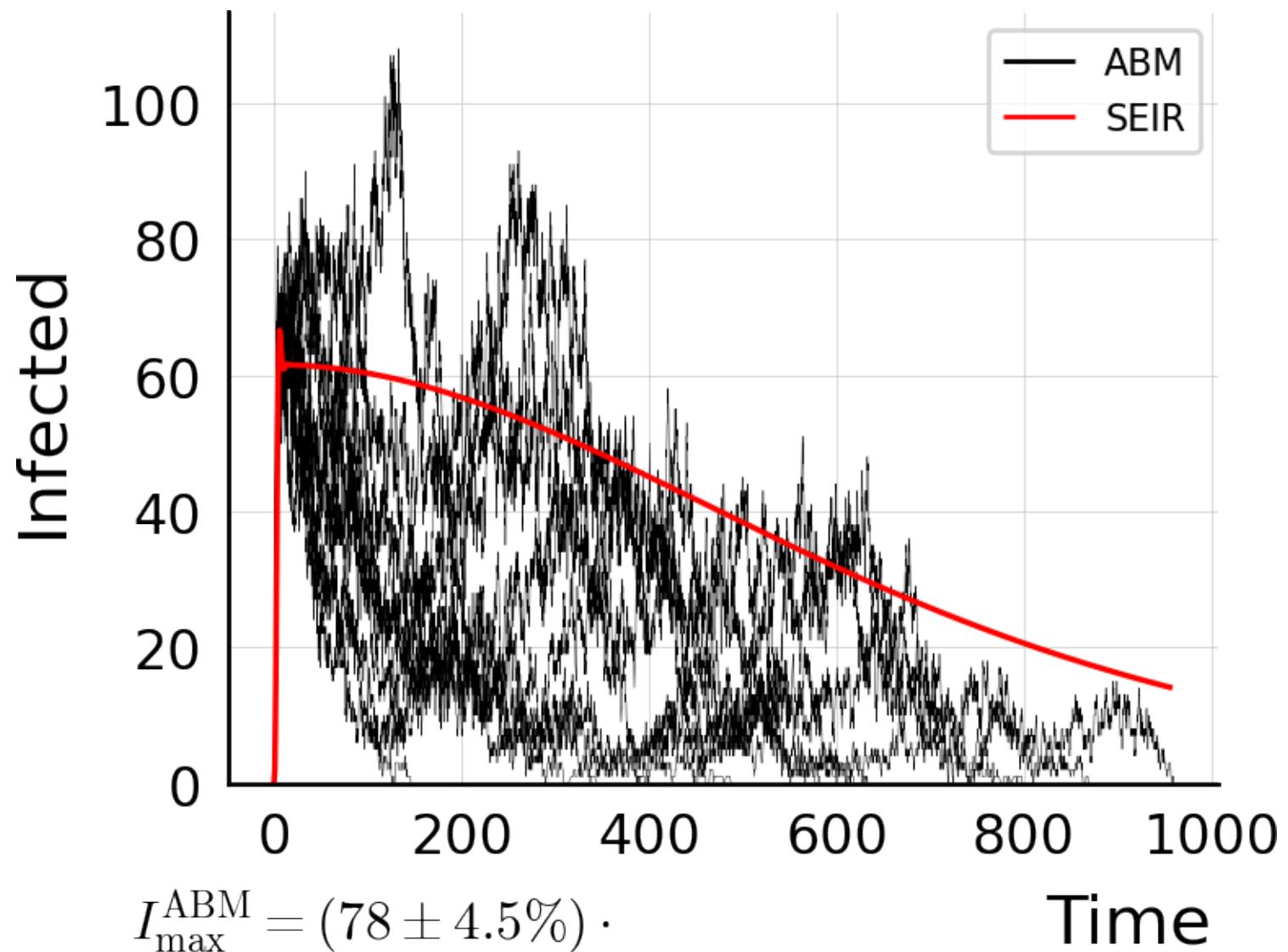
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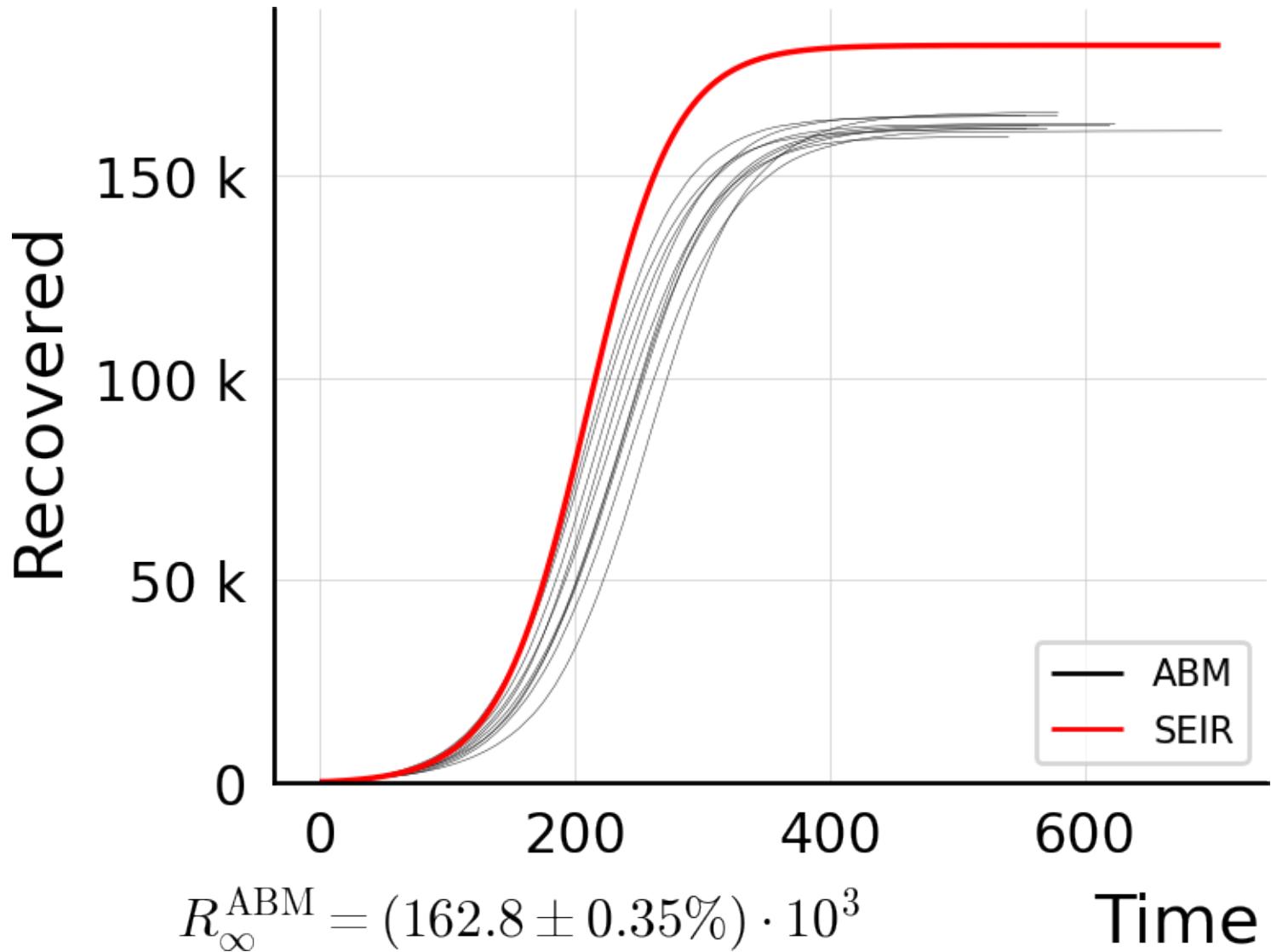
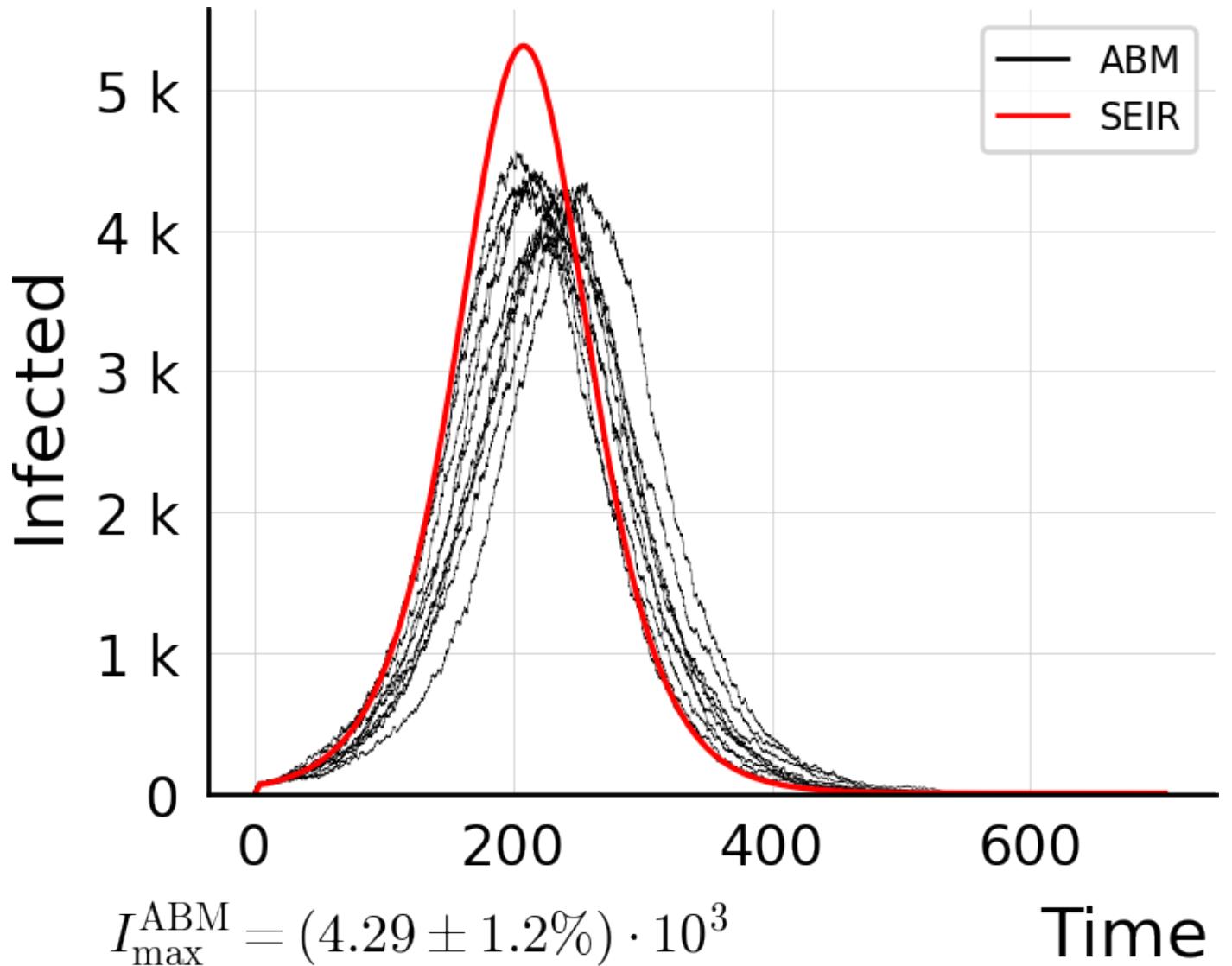
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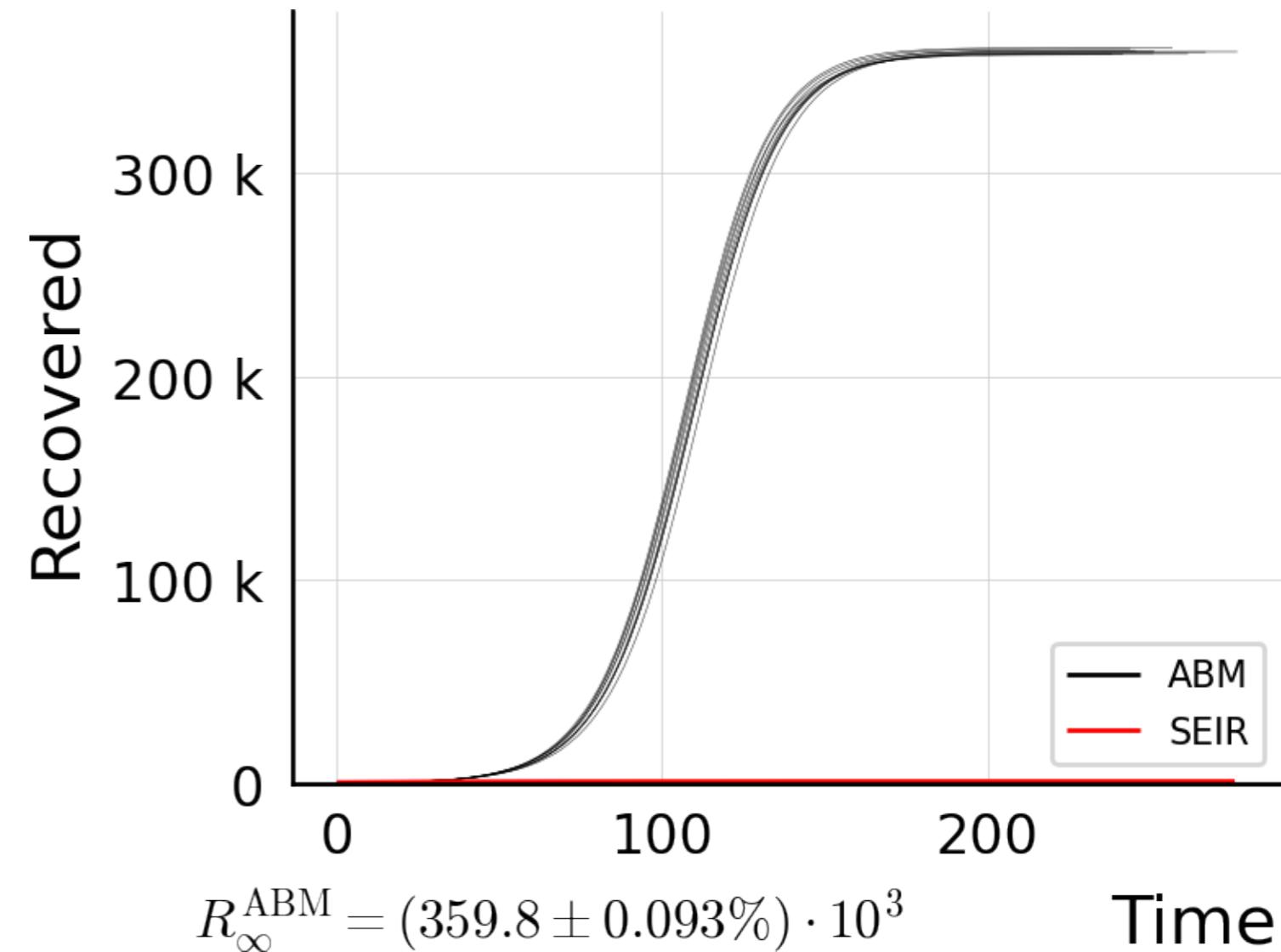
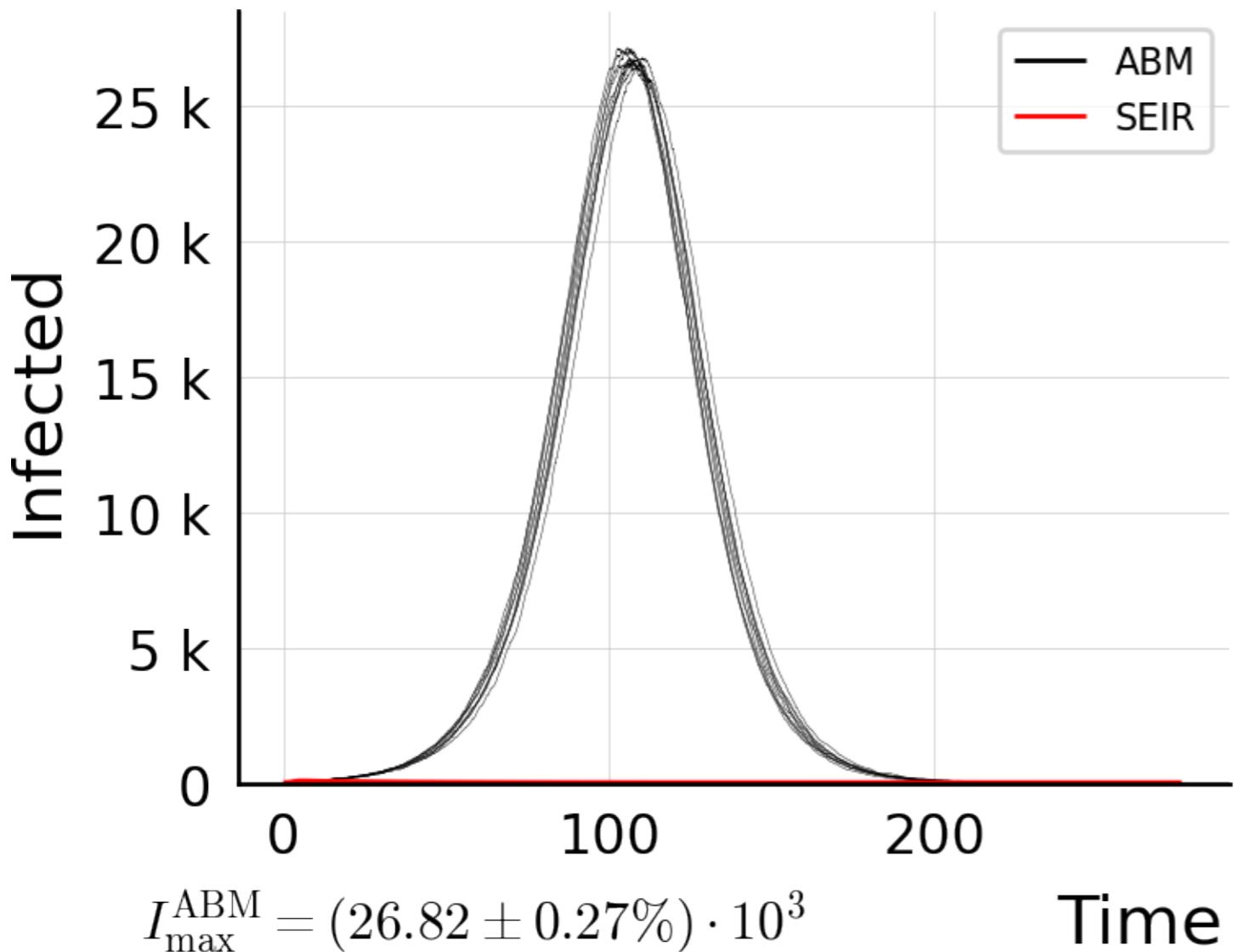
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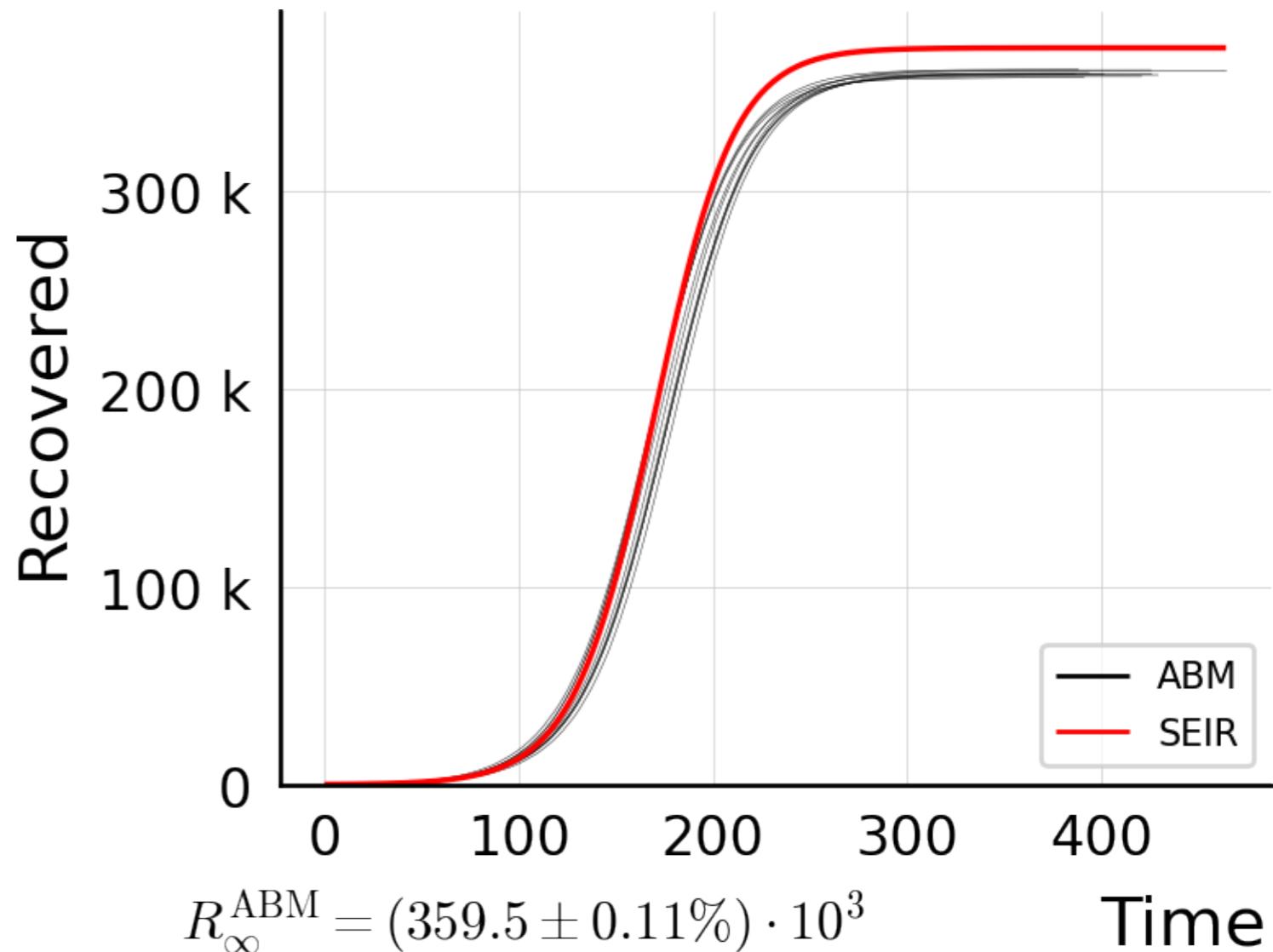
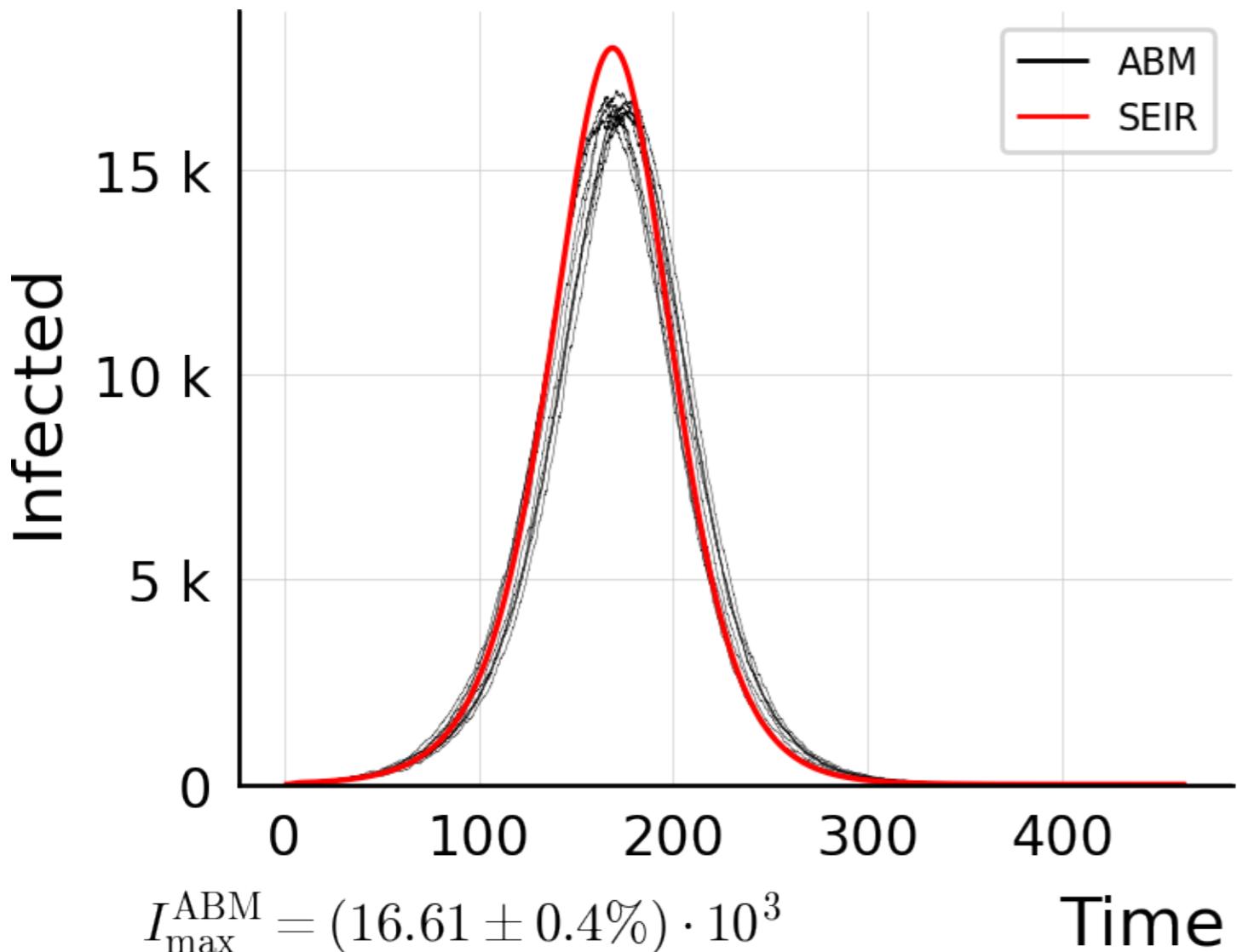
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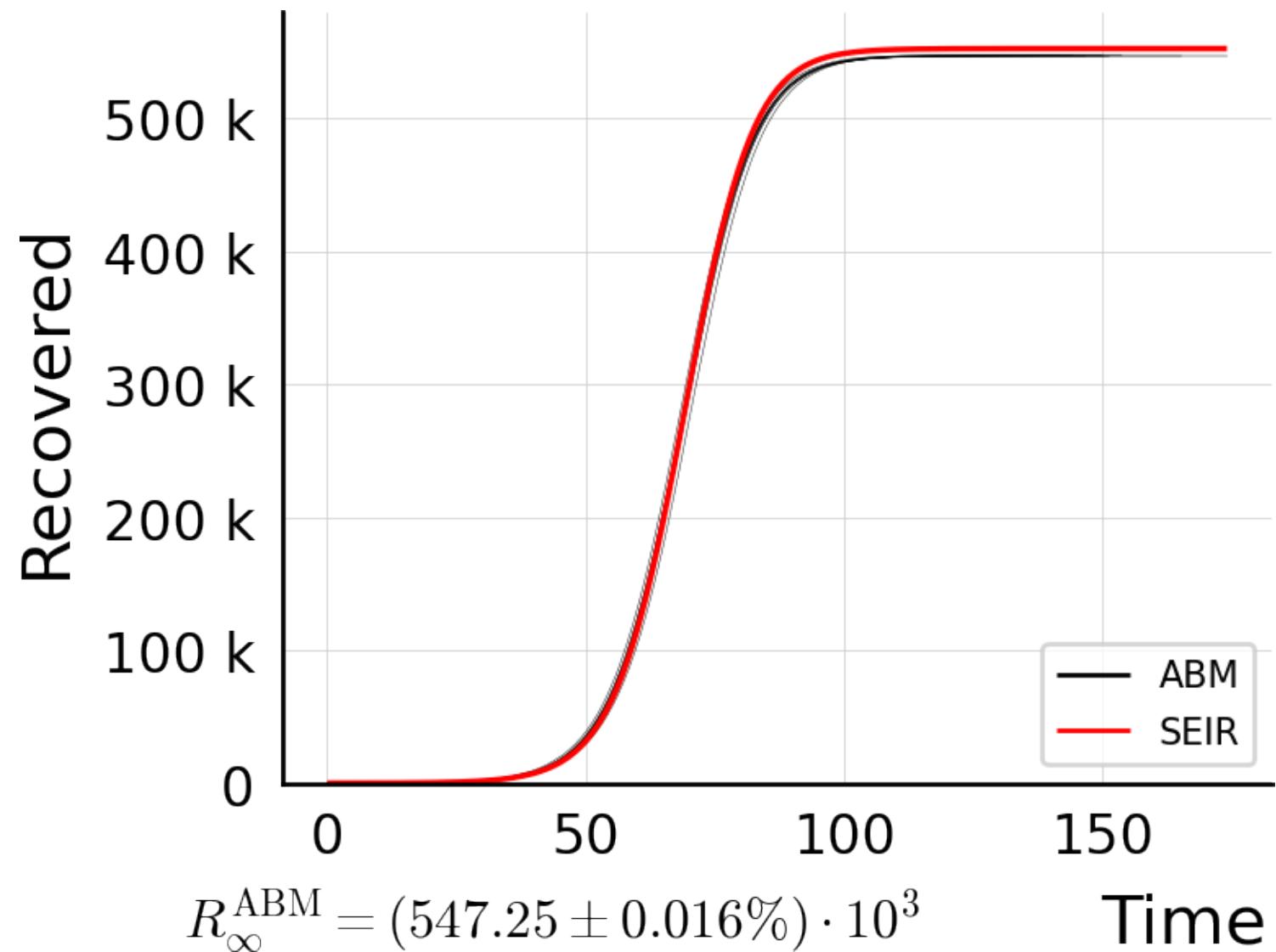
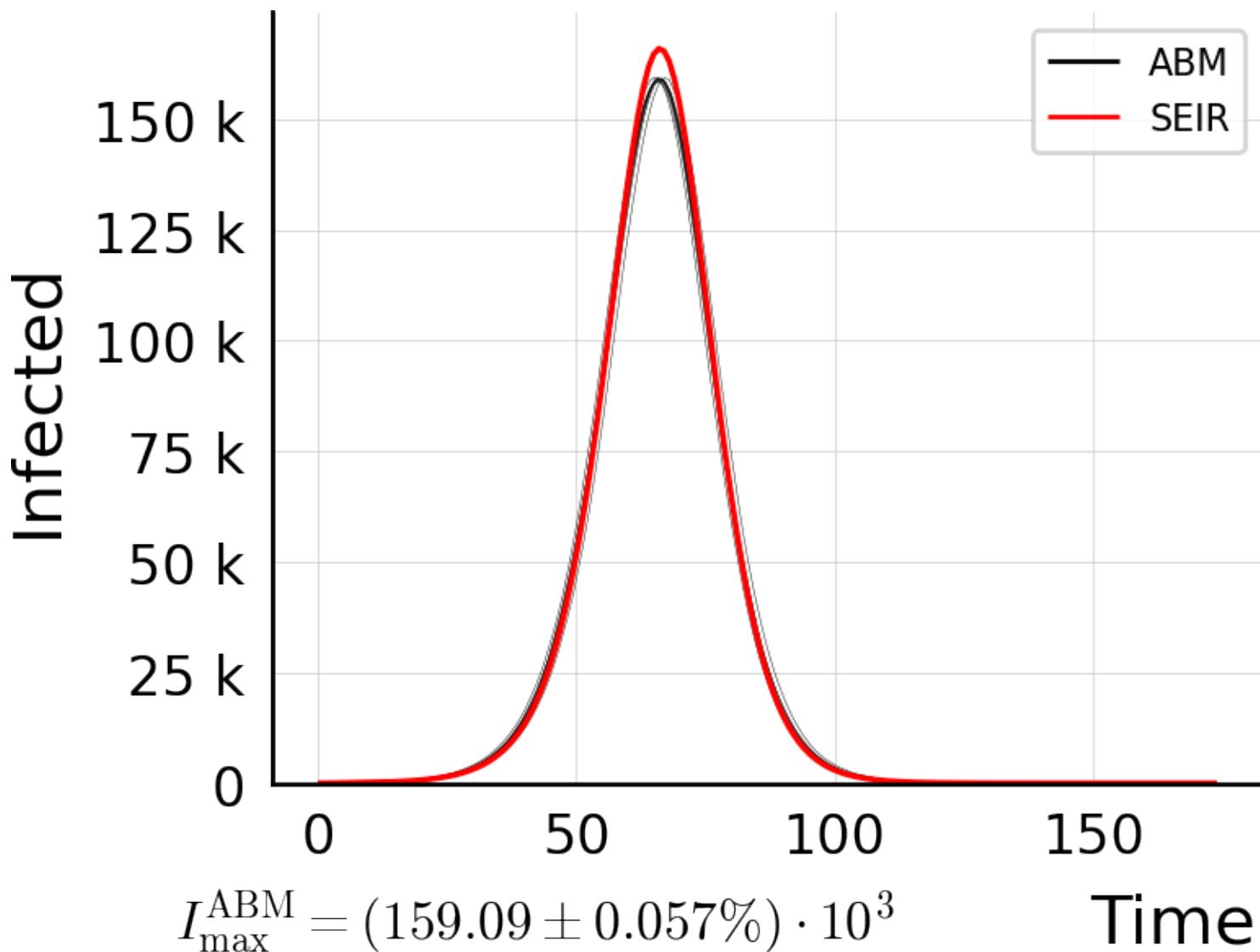
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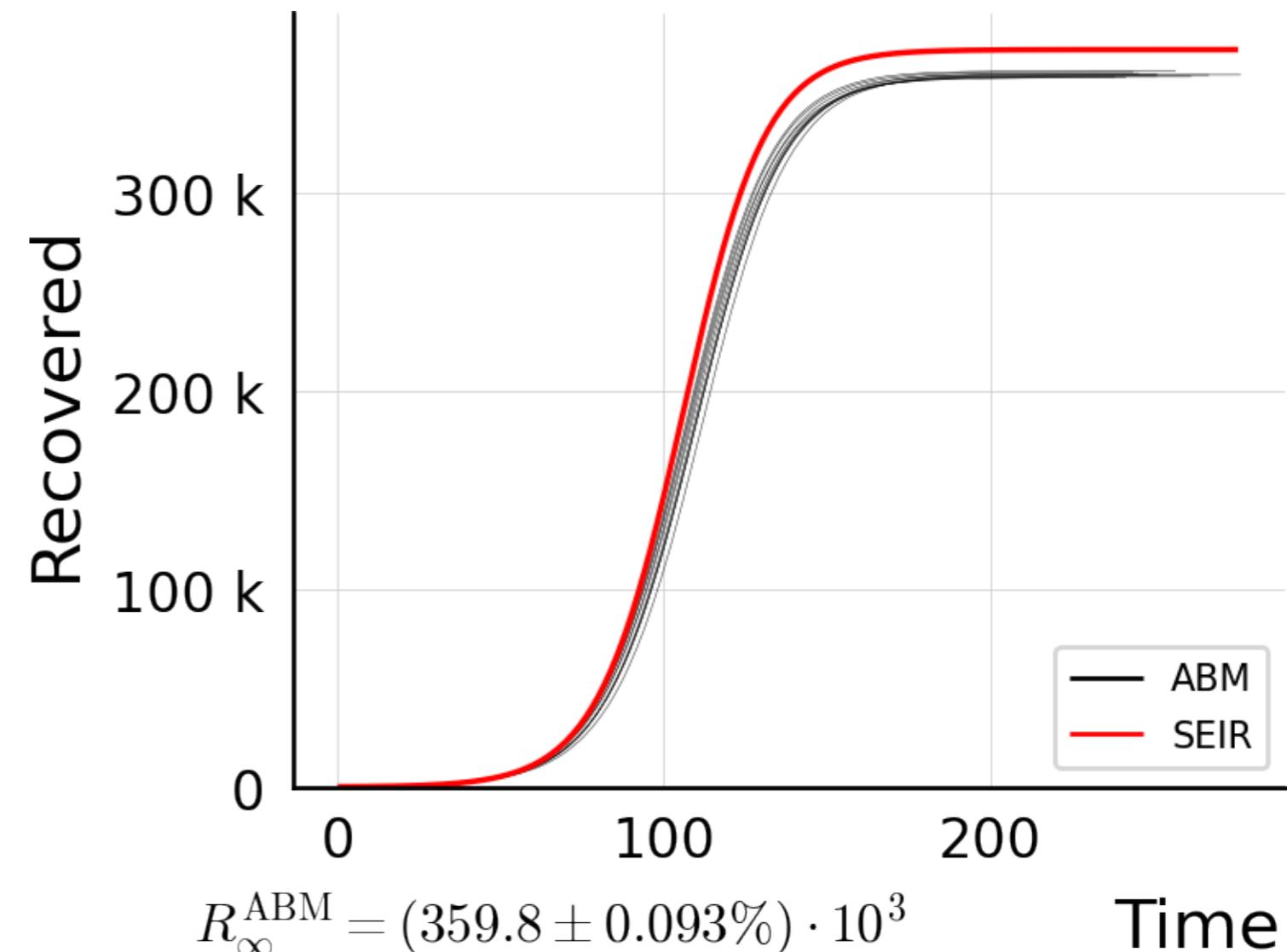
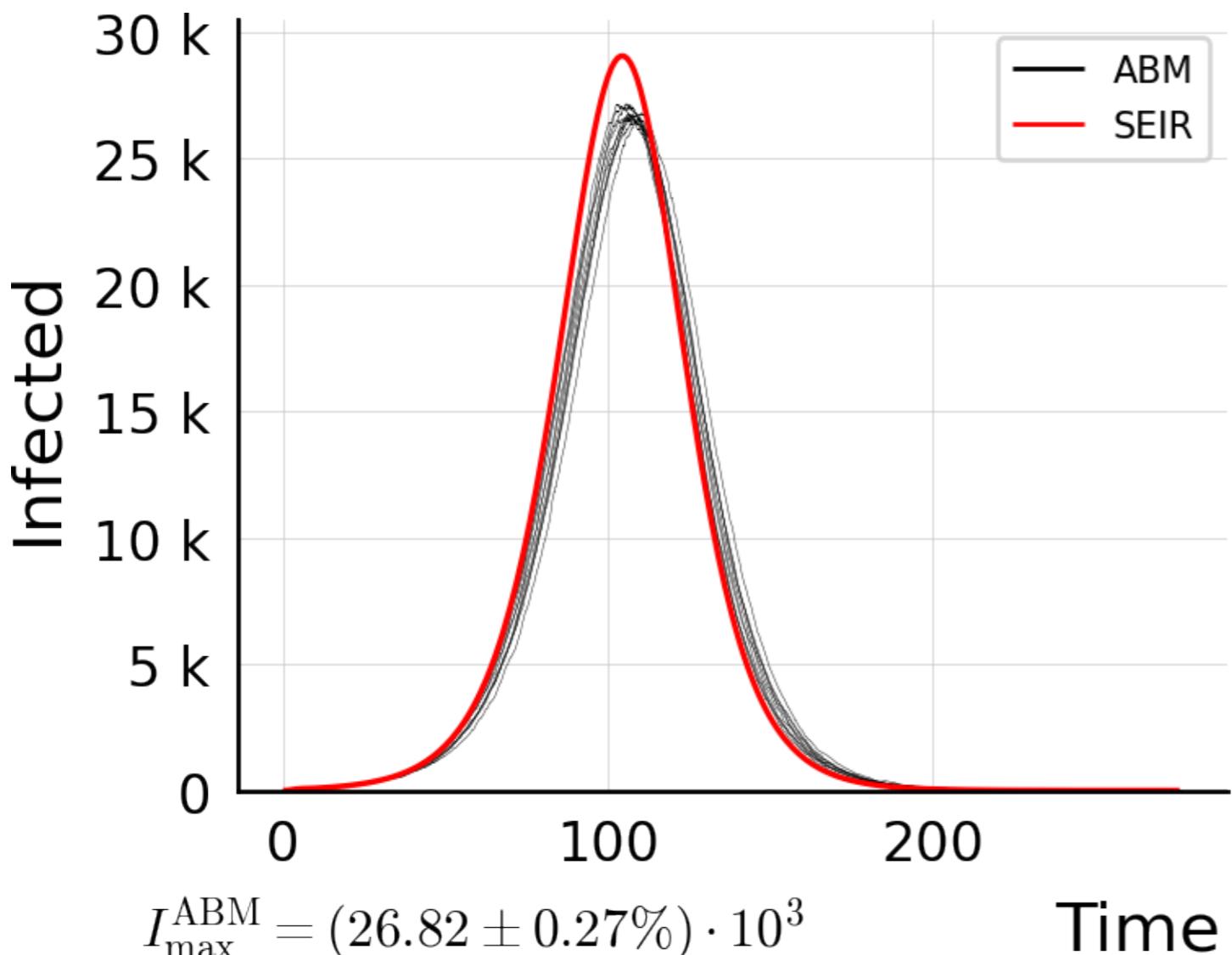
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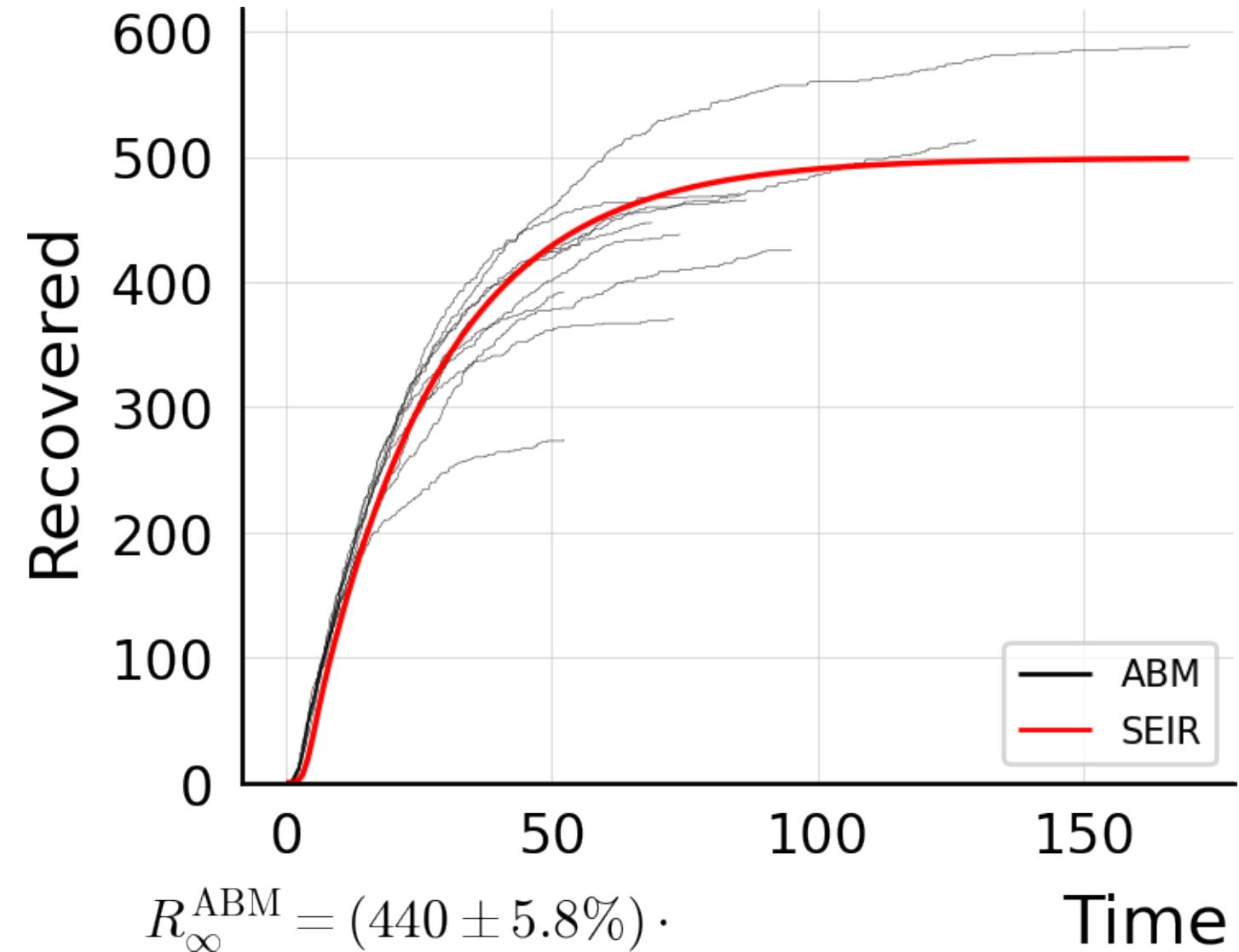
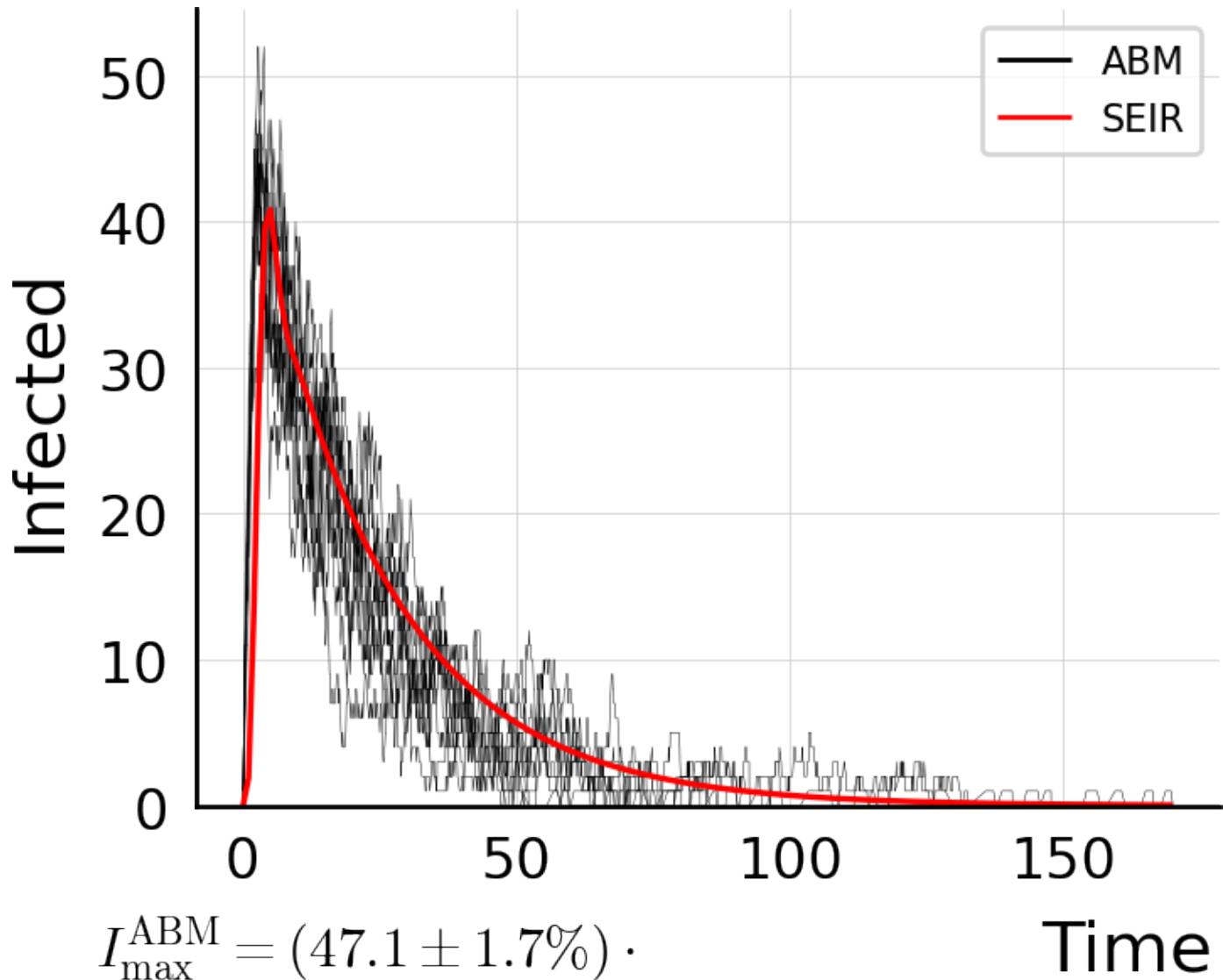
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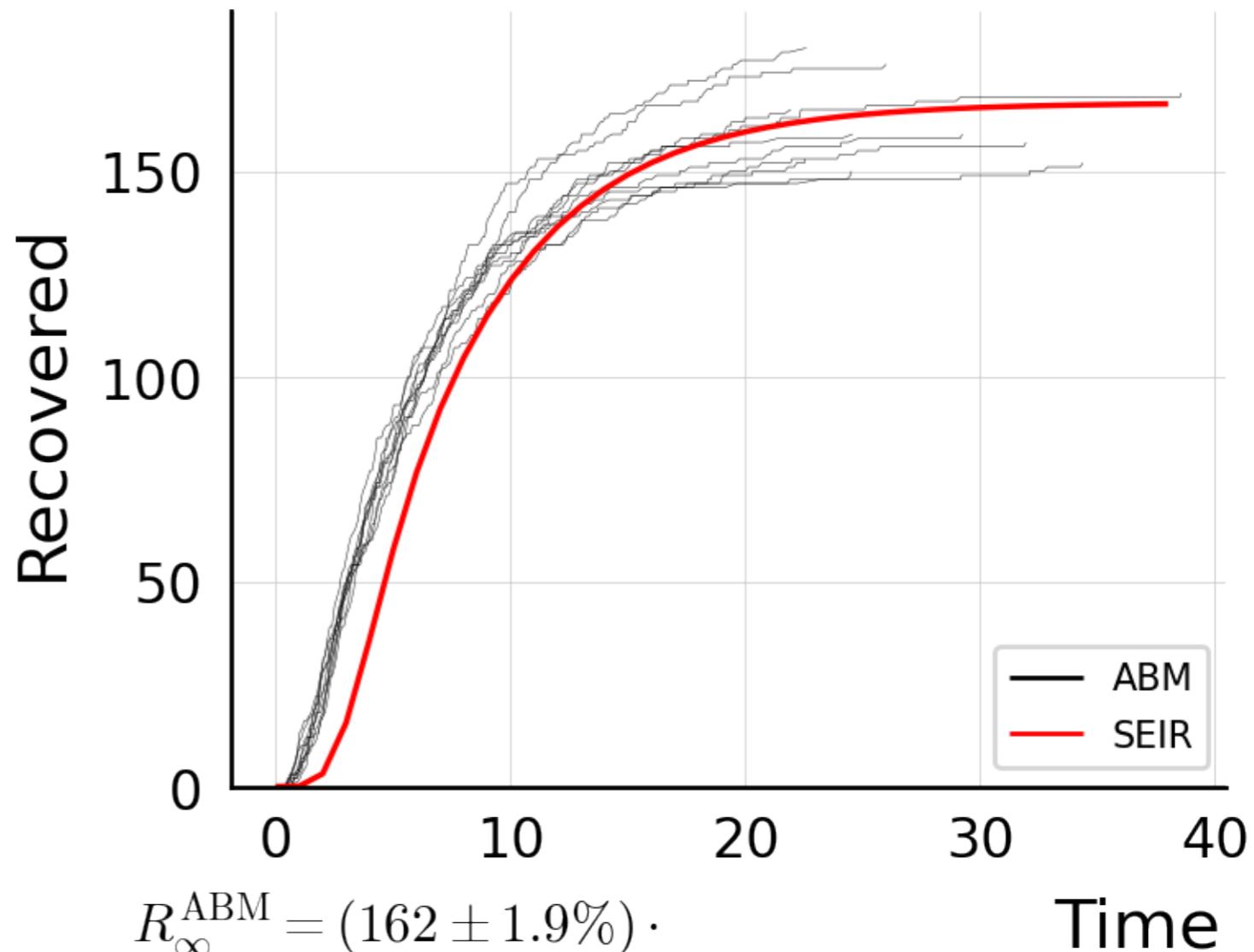
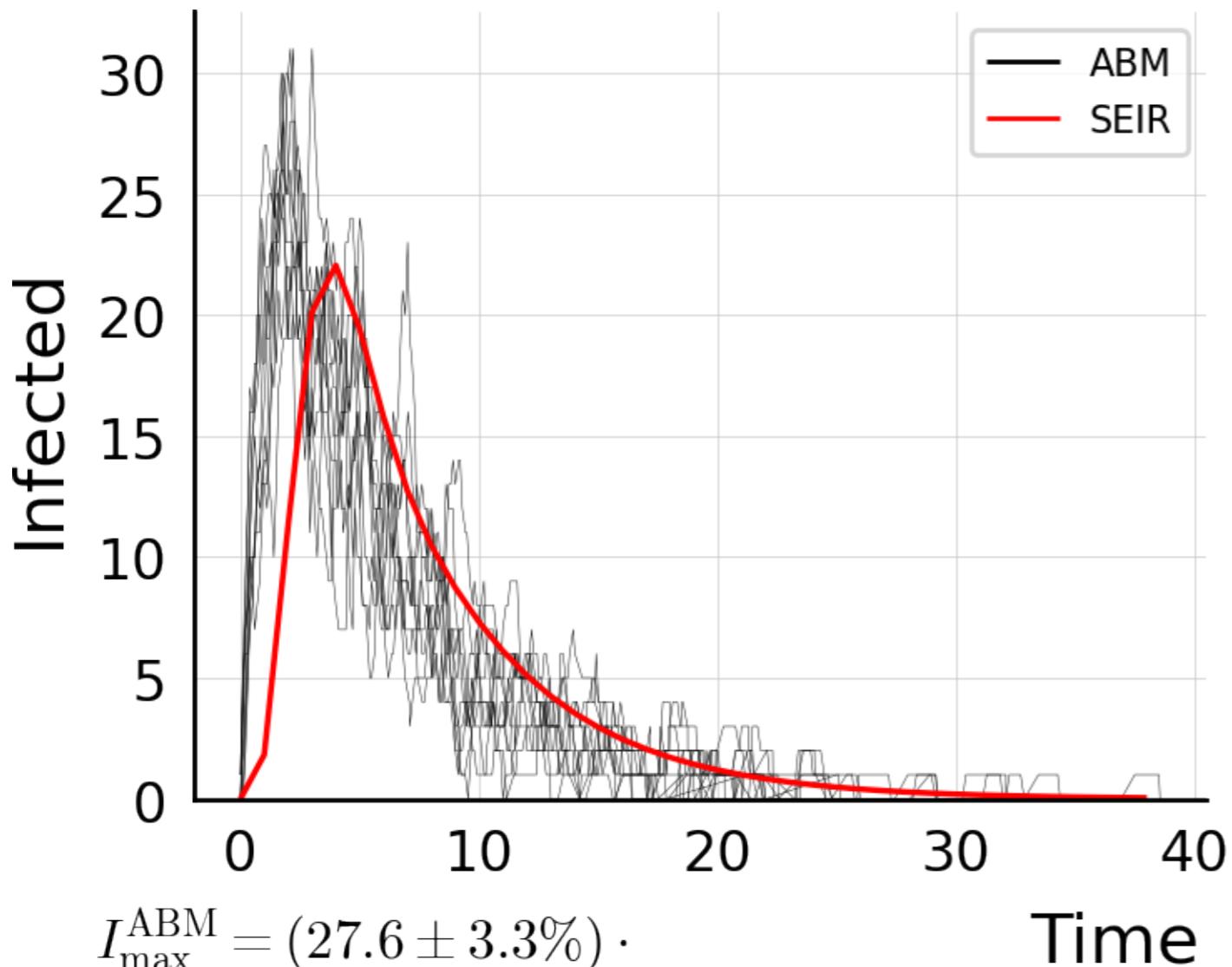
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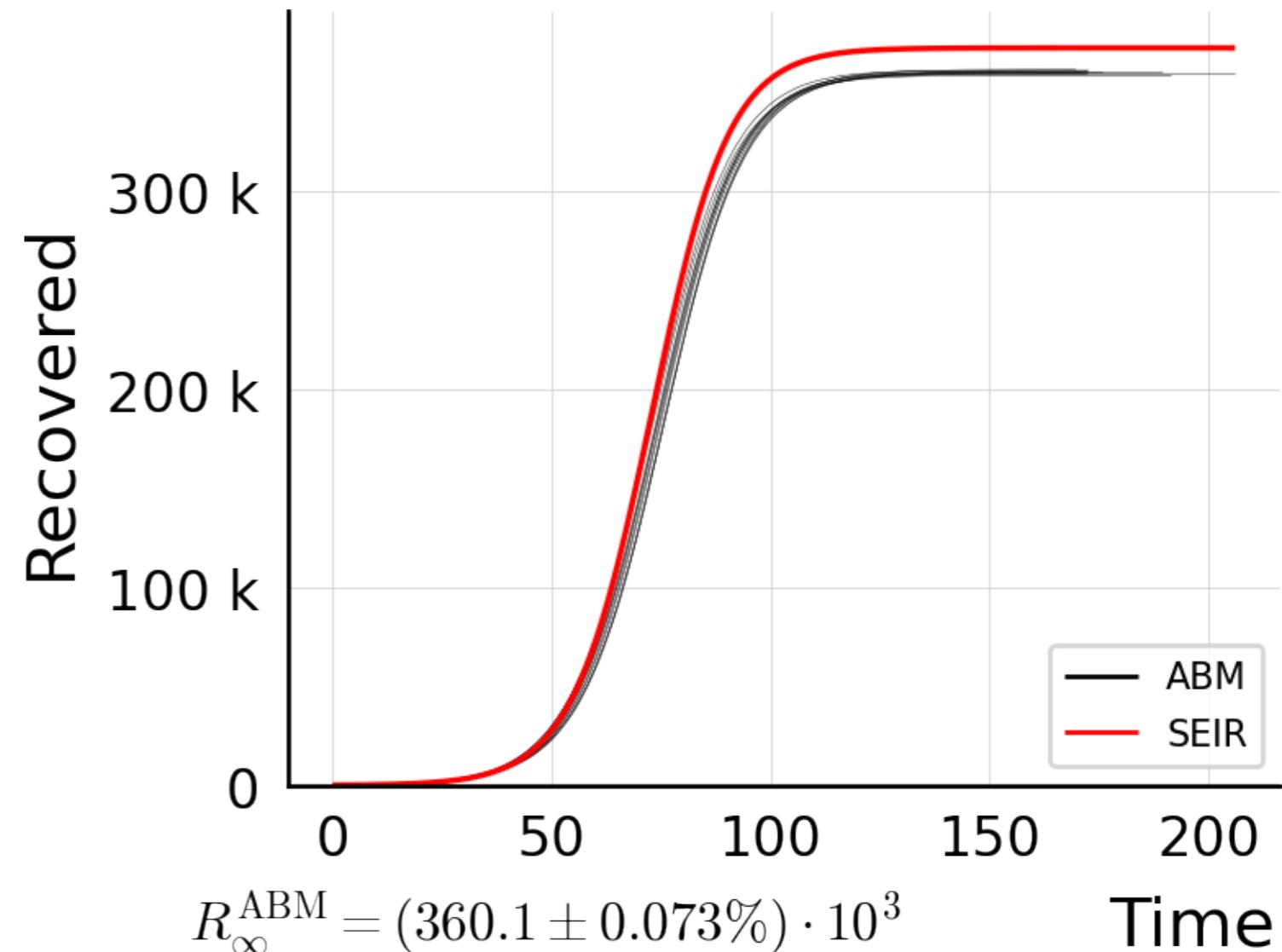
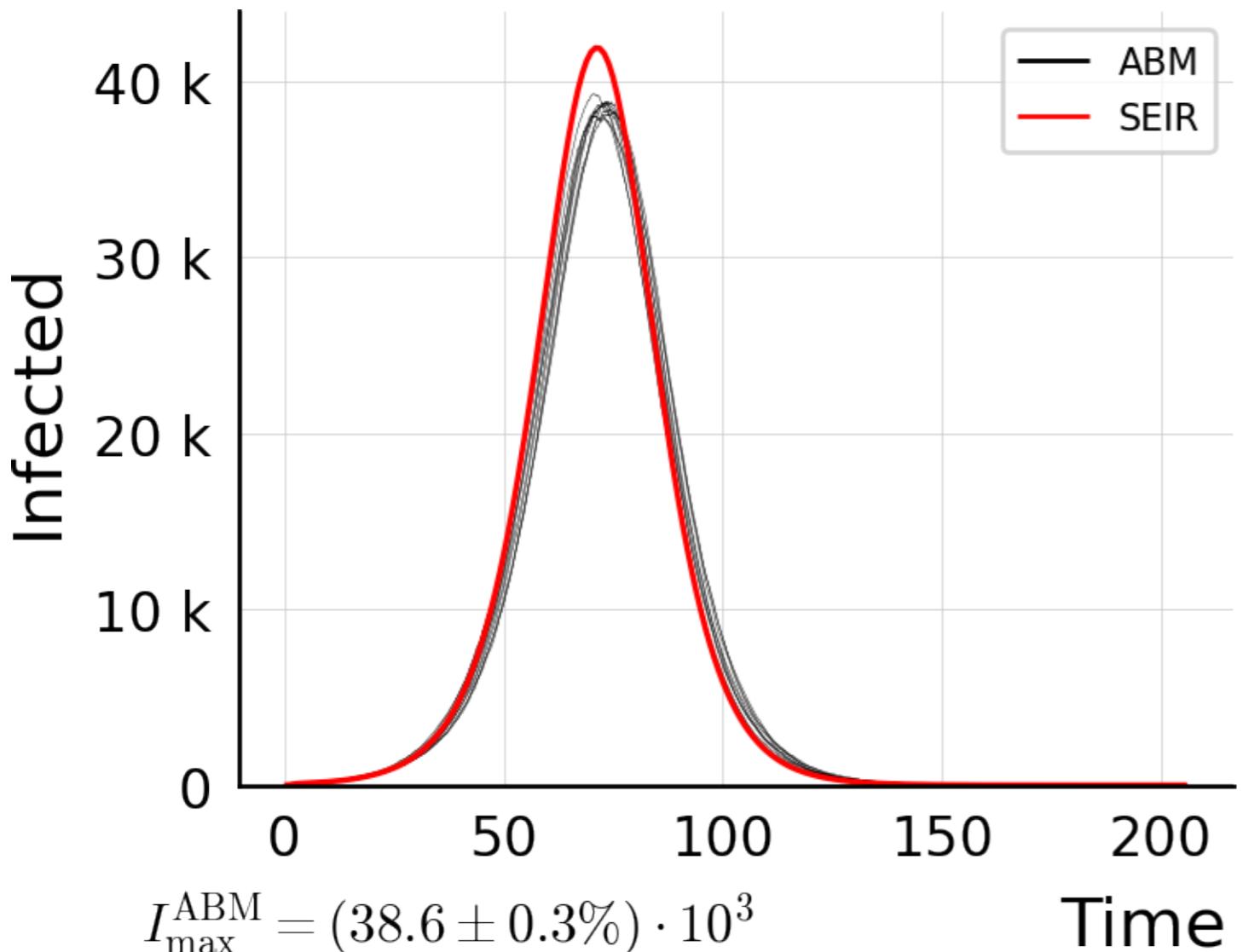
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 2.0$, algo = 2, #10



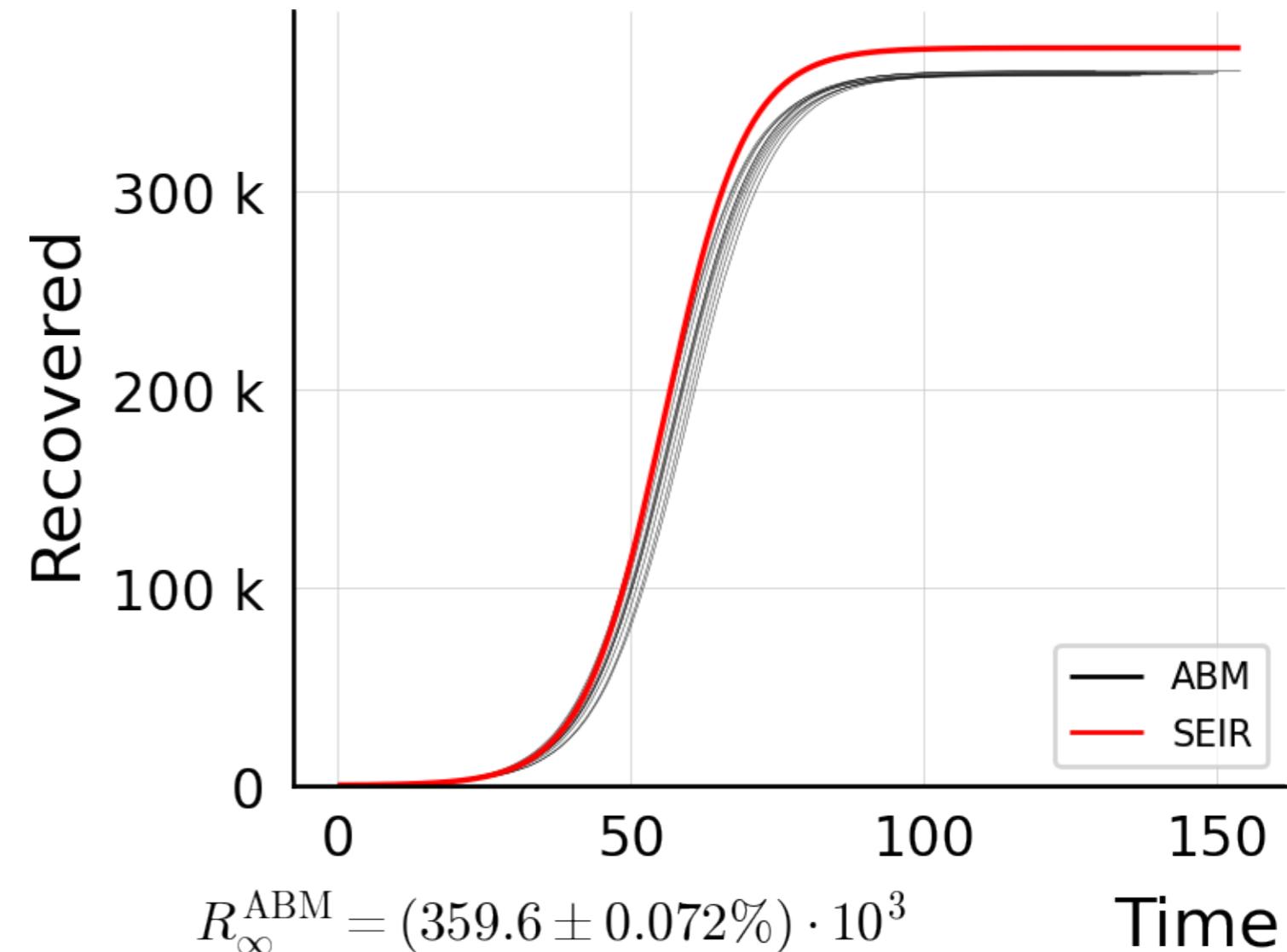
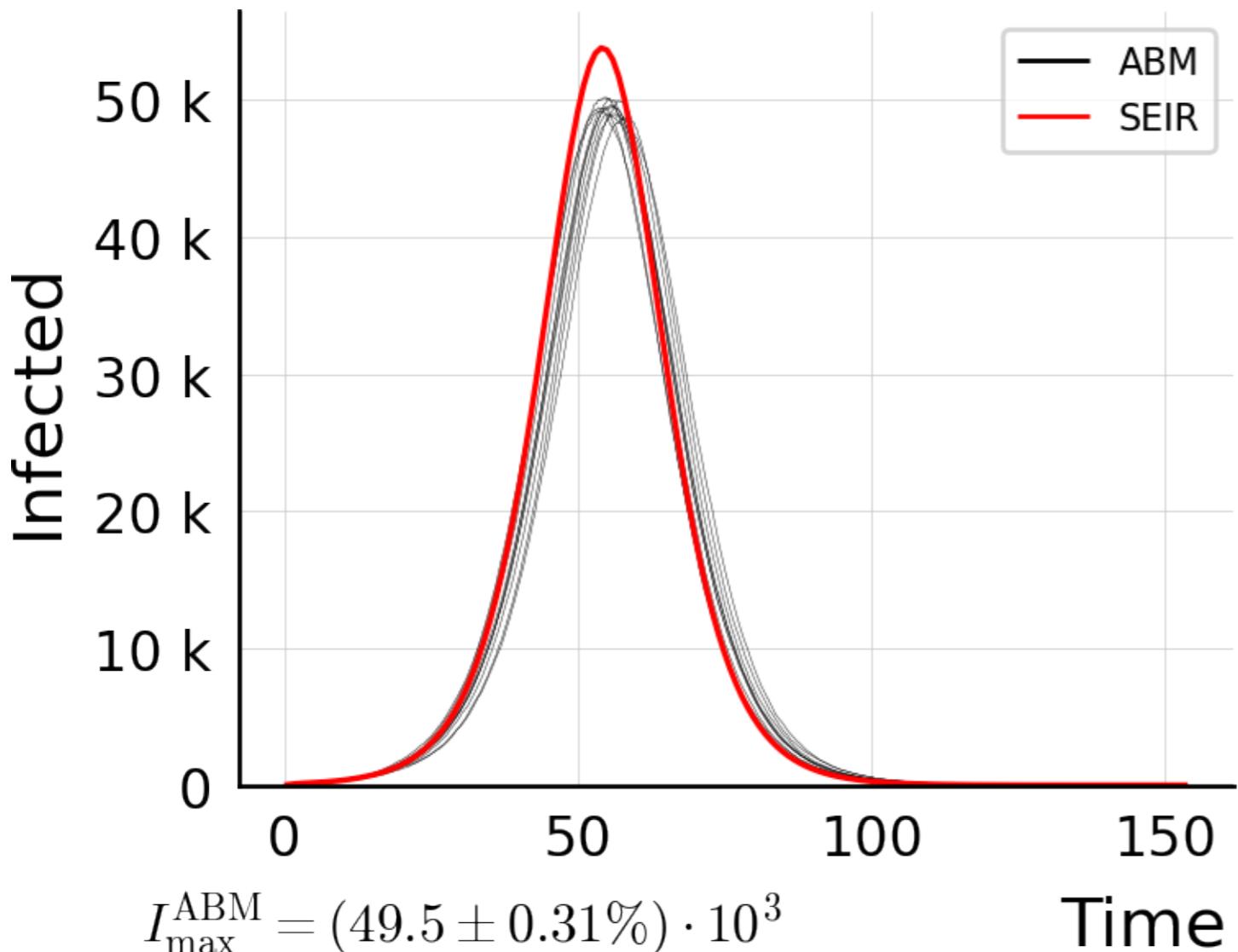
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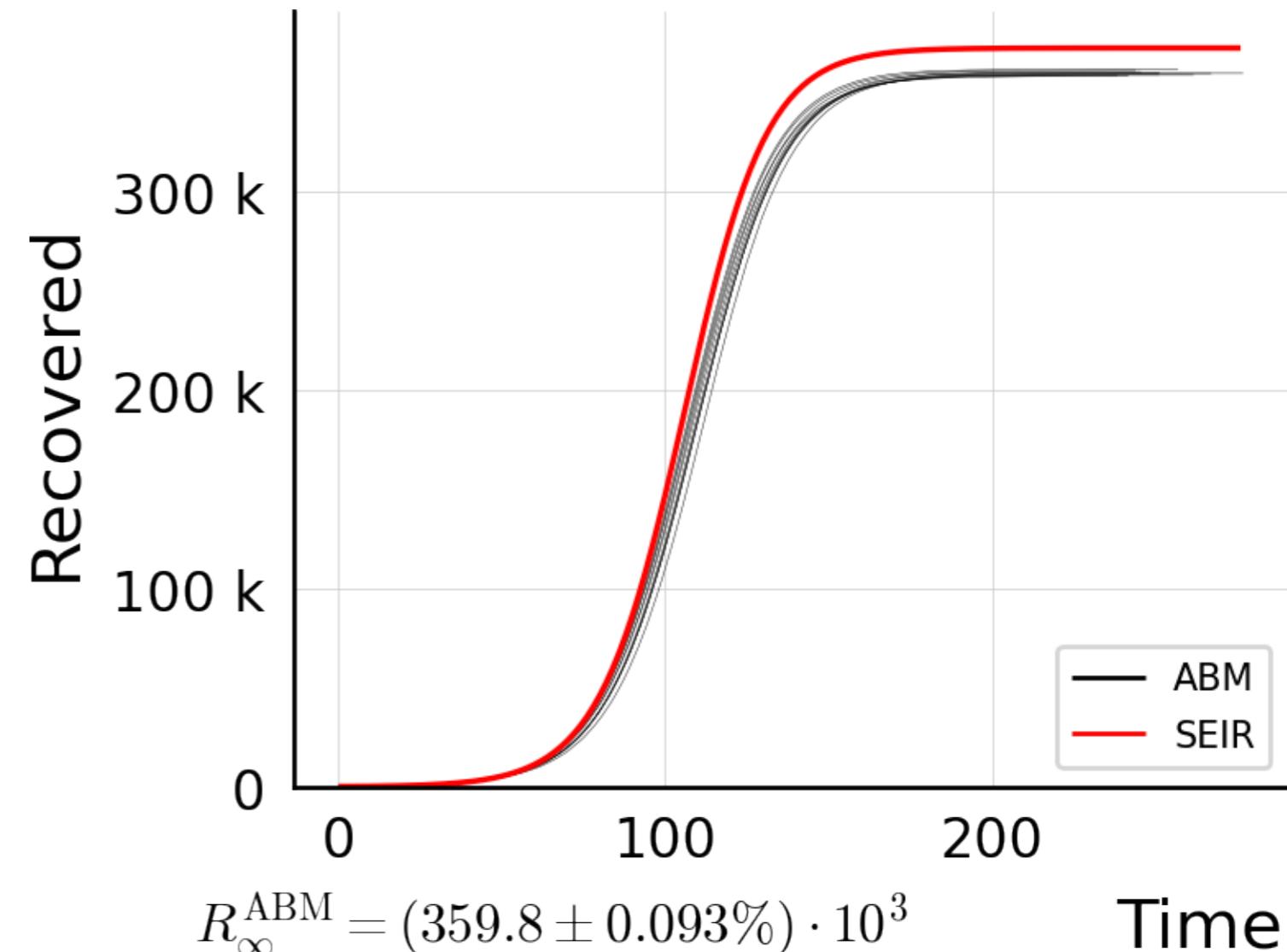
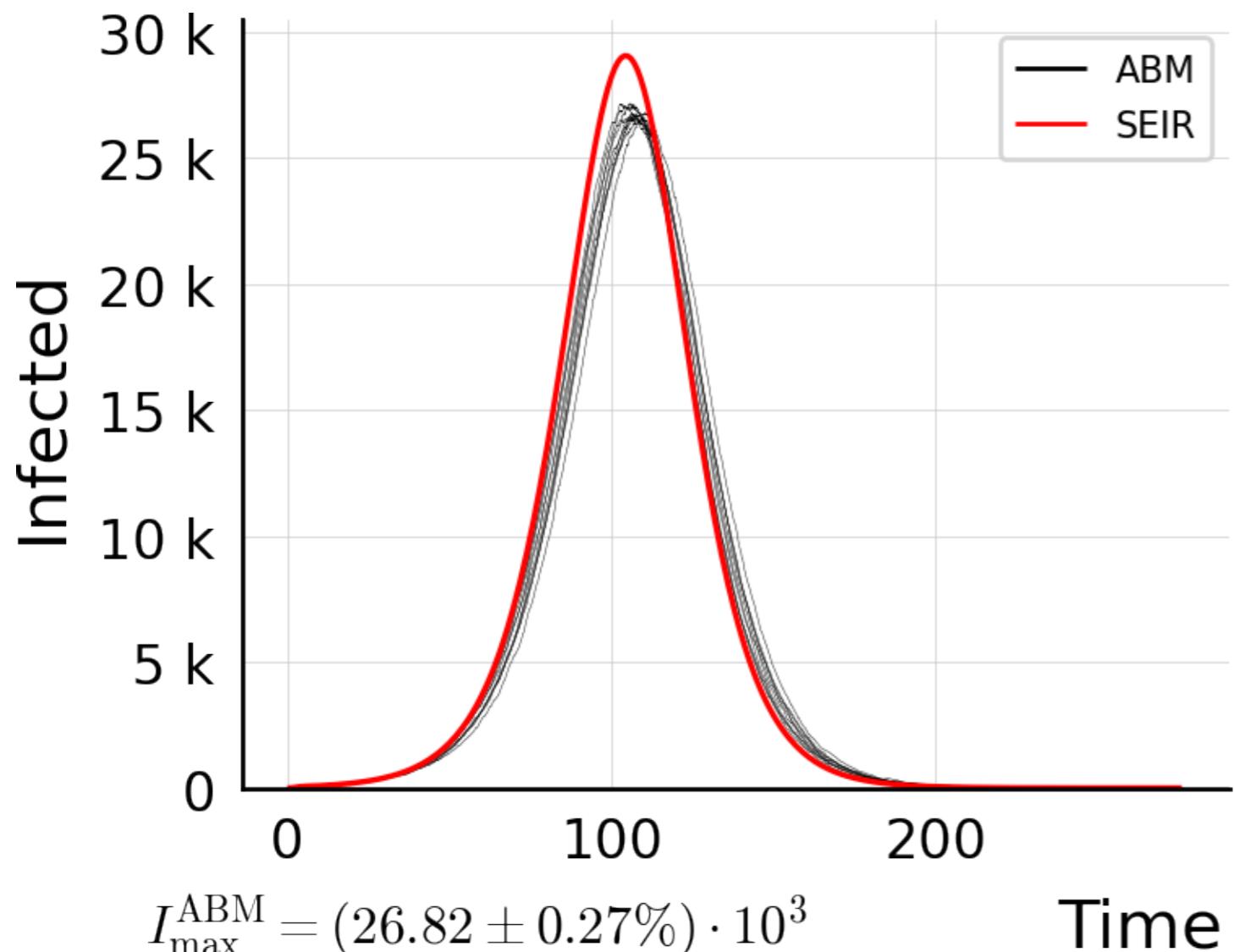
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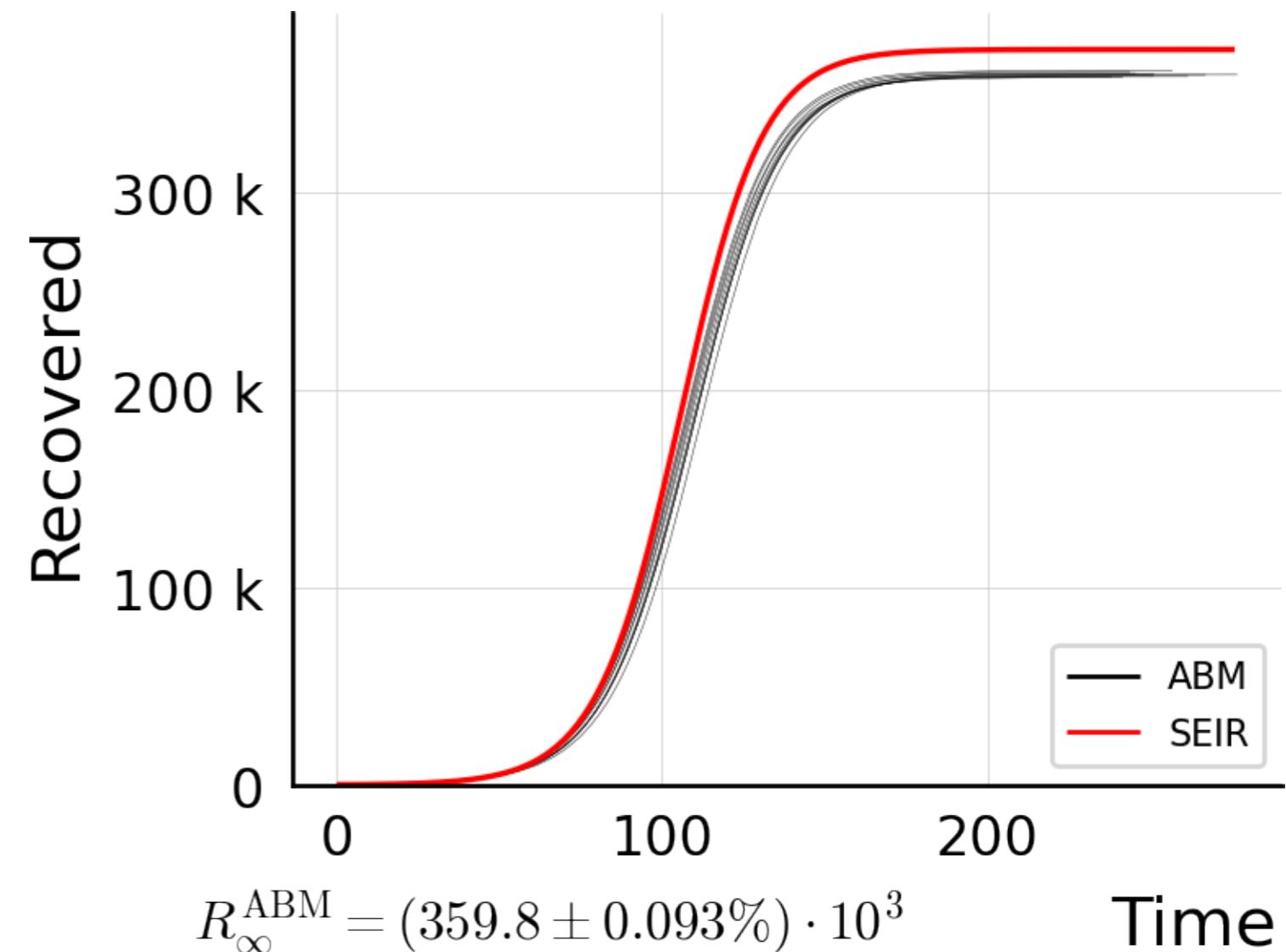
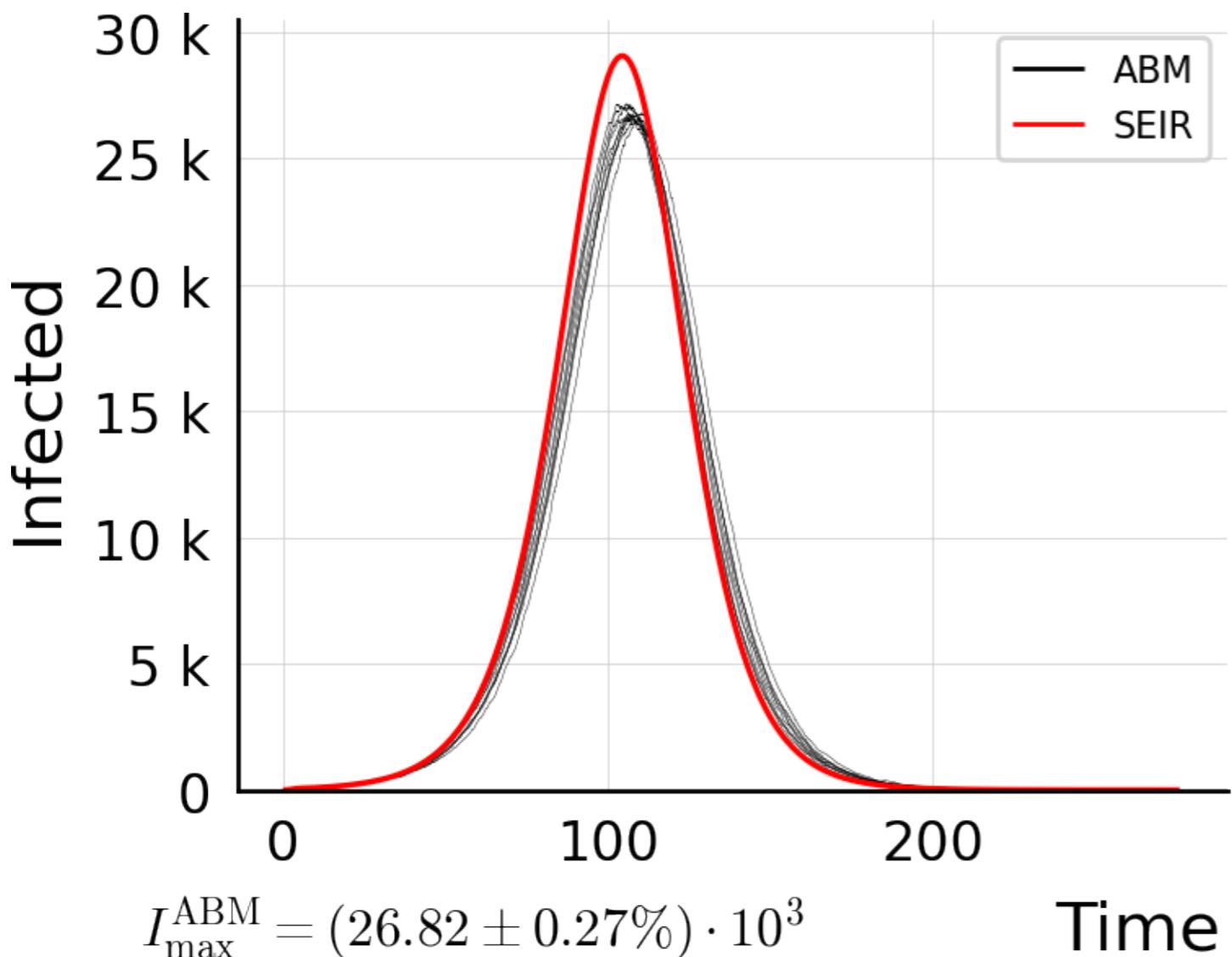
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 $\lambda_E = 4.0$, $\lambda_I = 1.0$, algo = 2, #10



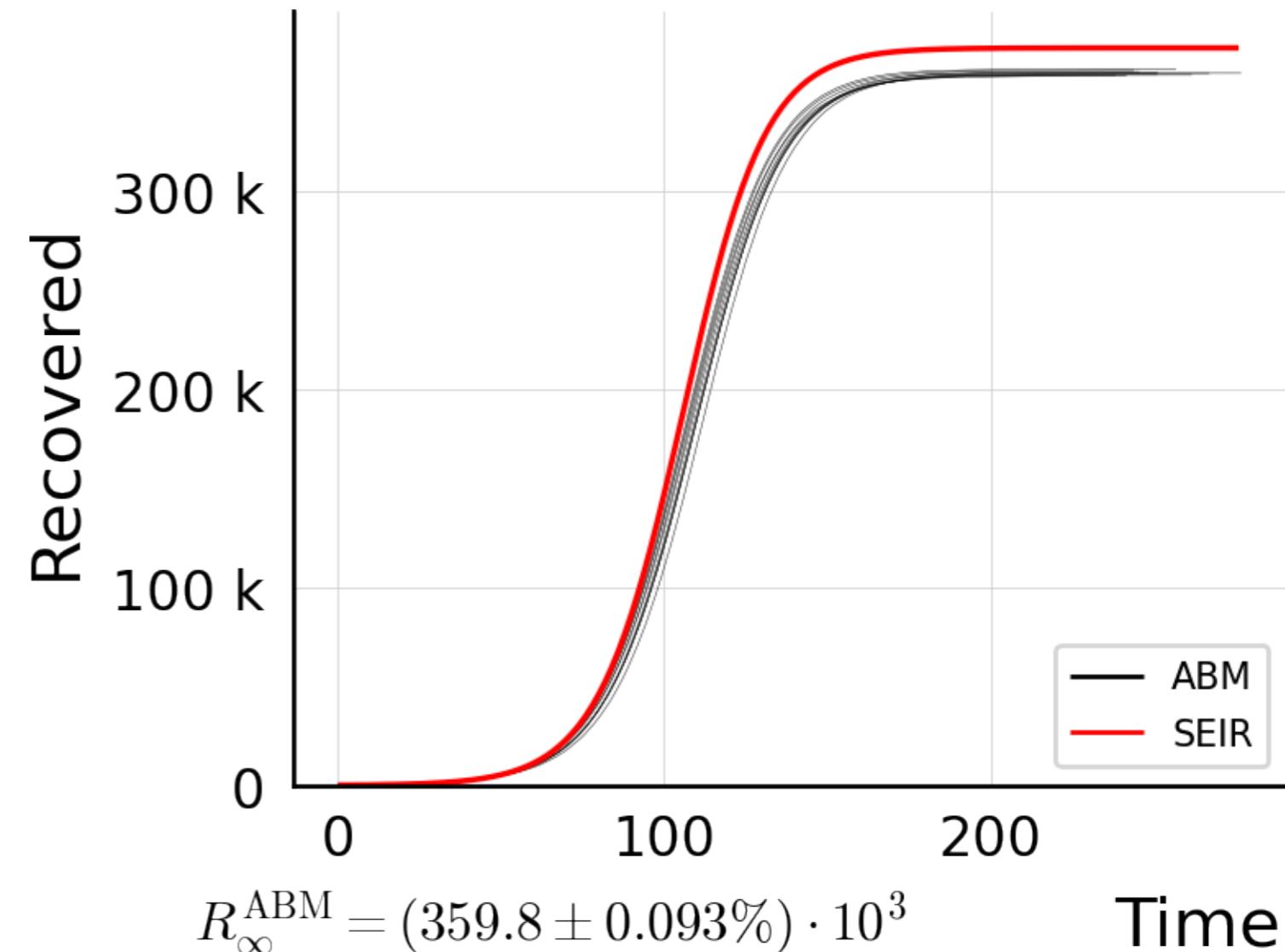
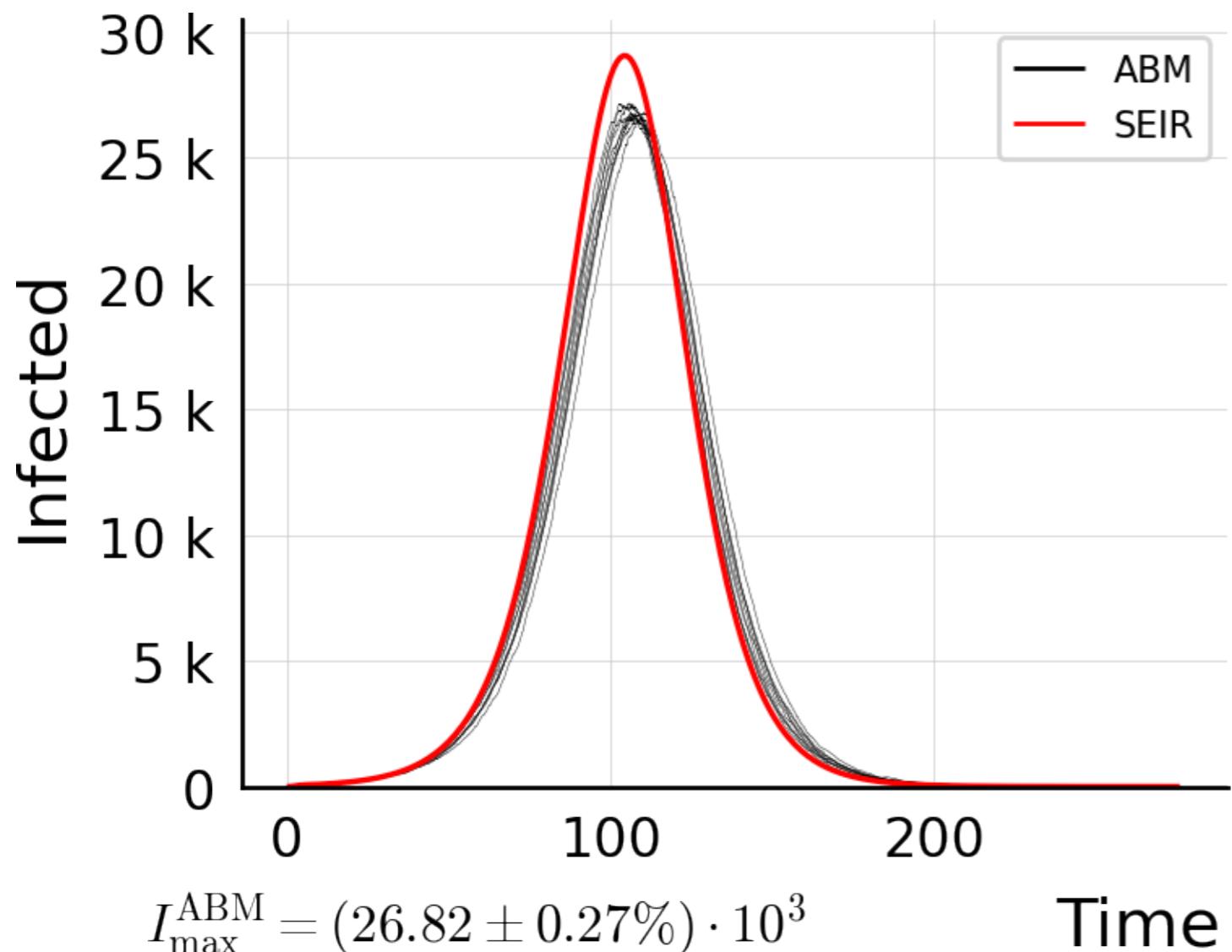
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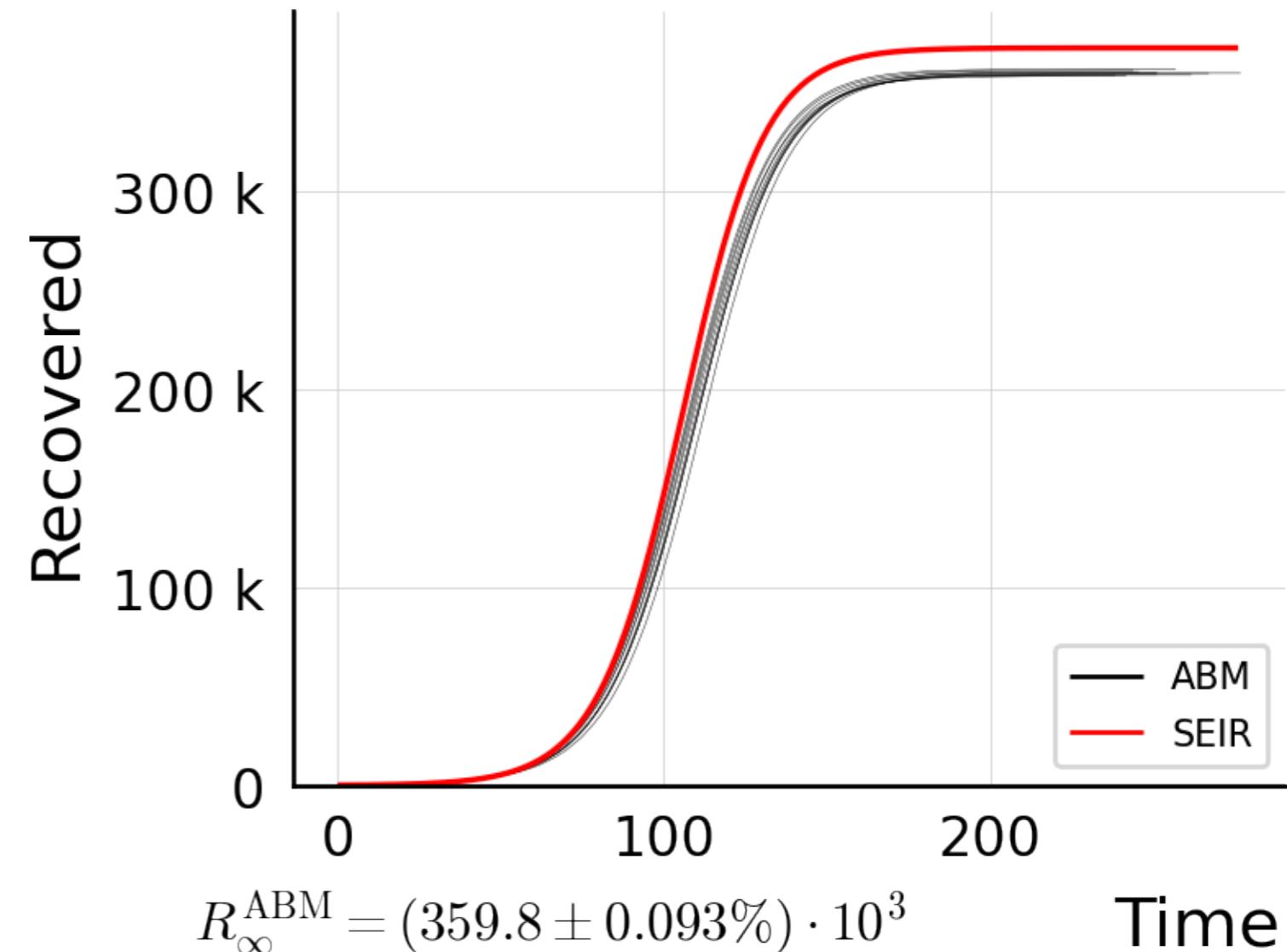
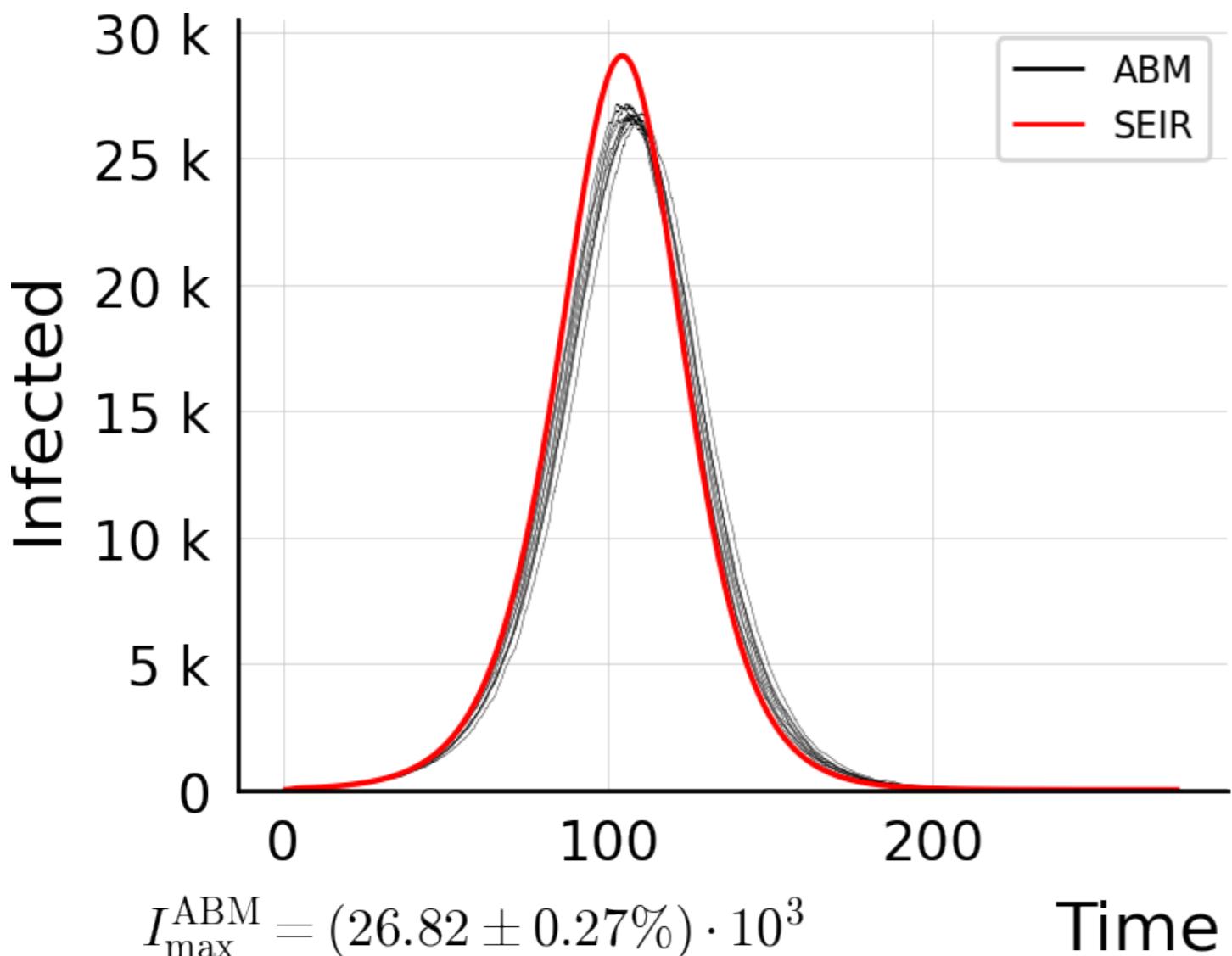
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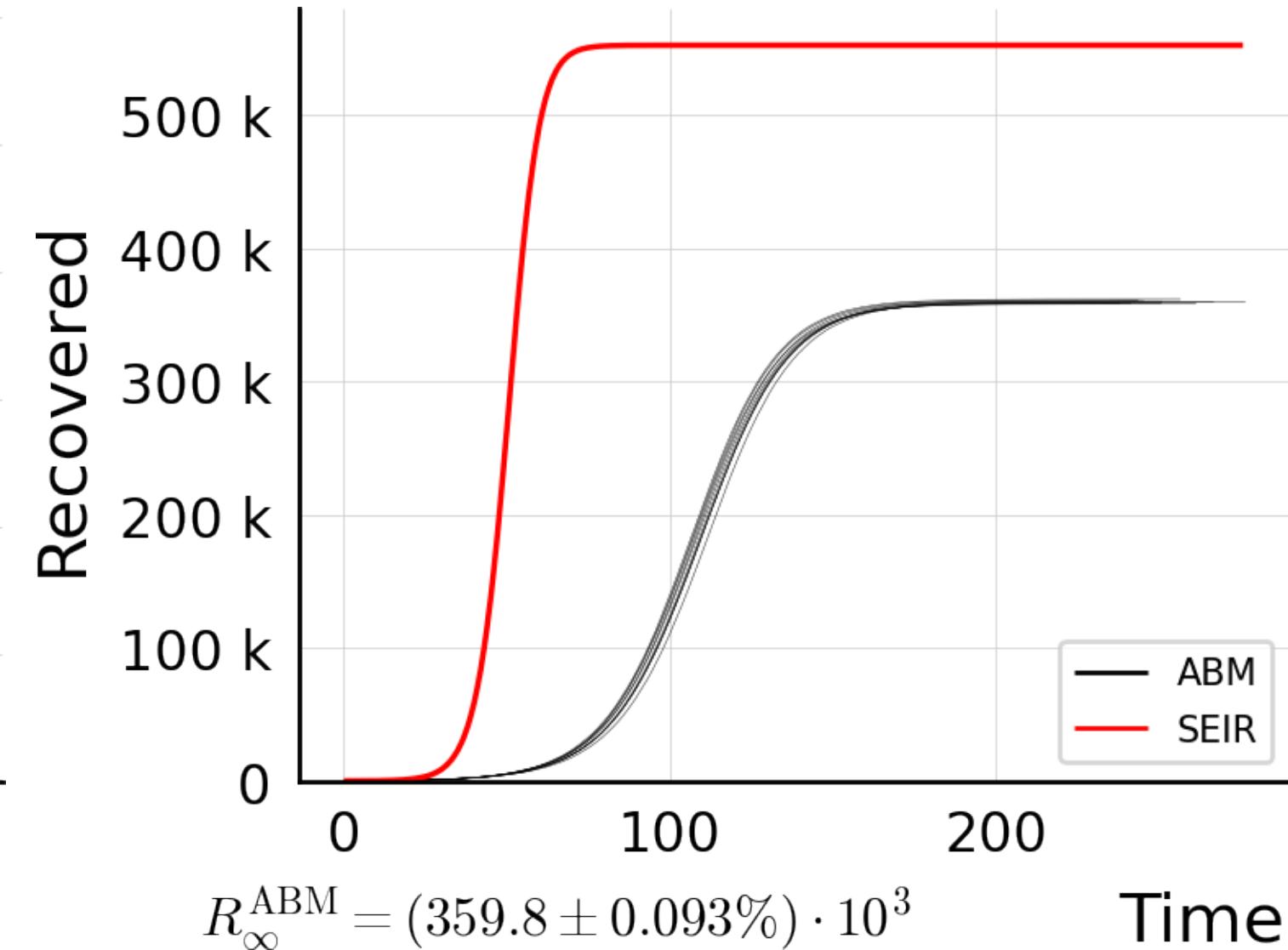
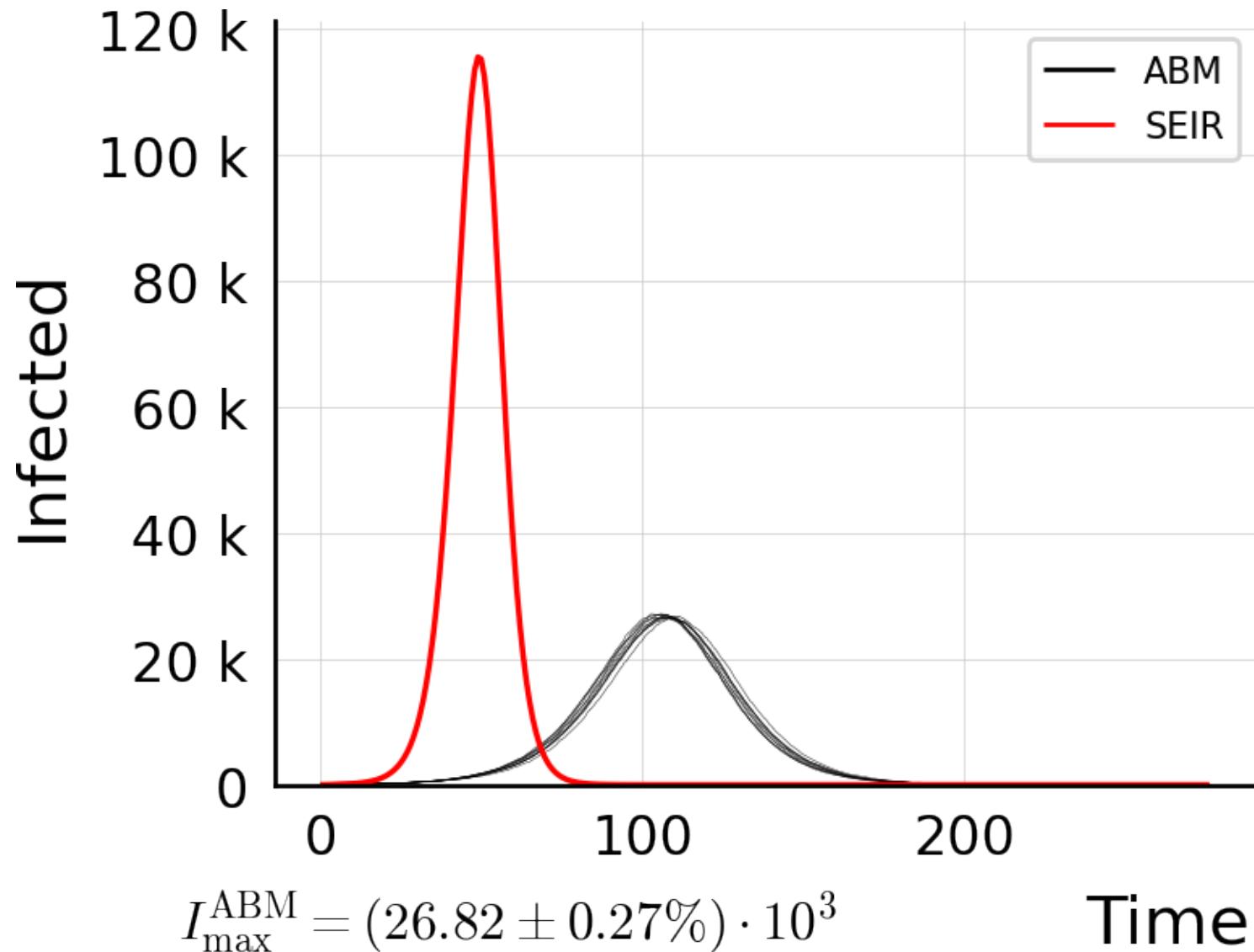
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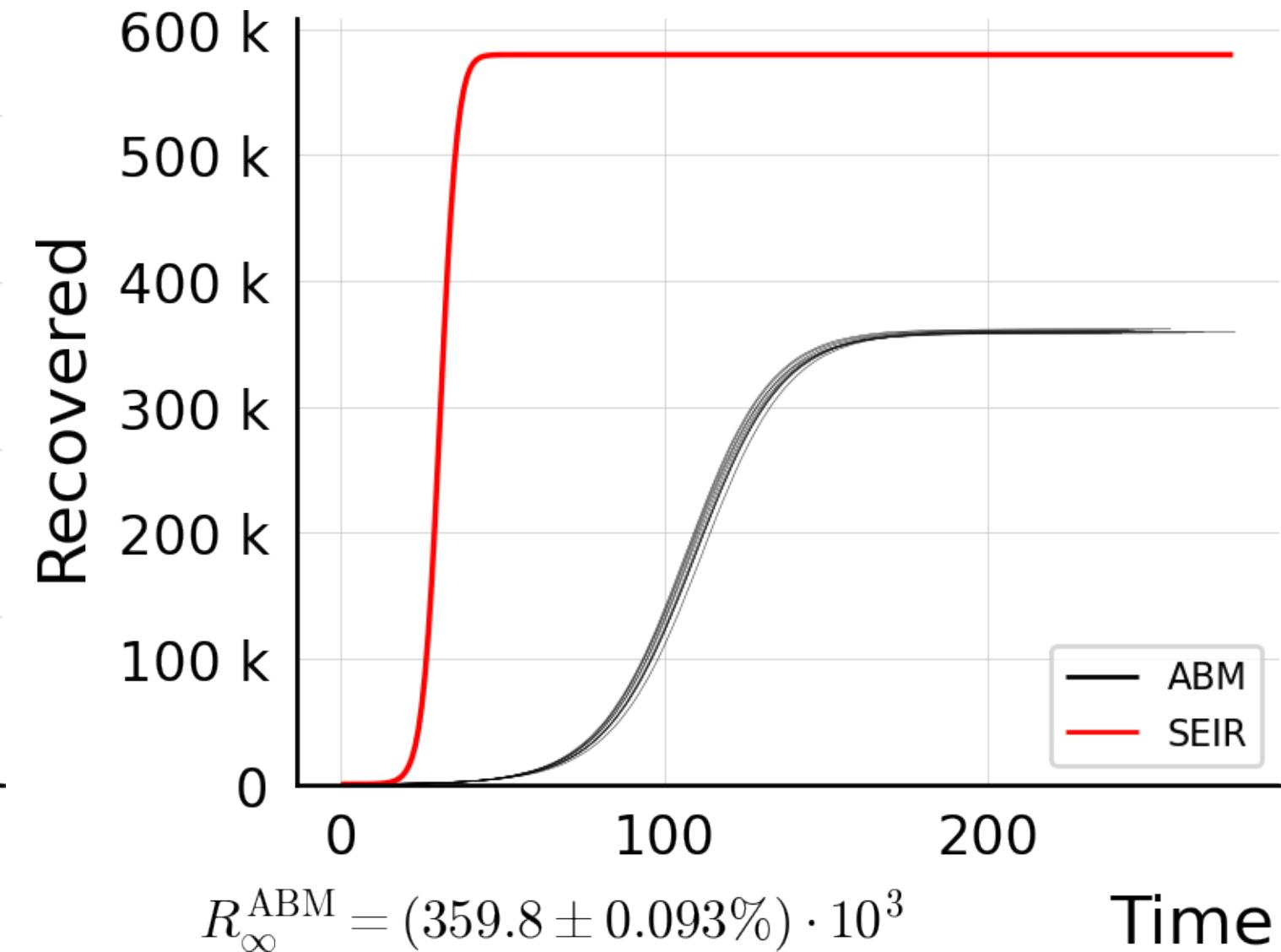
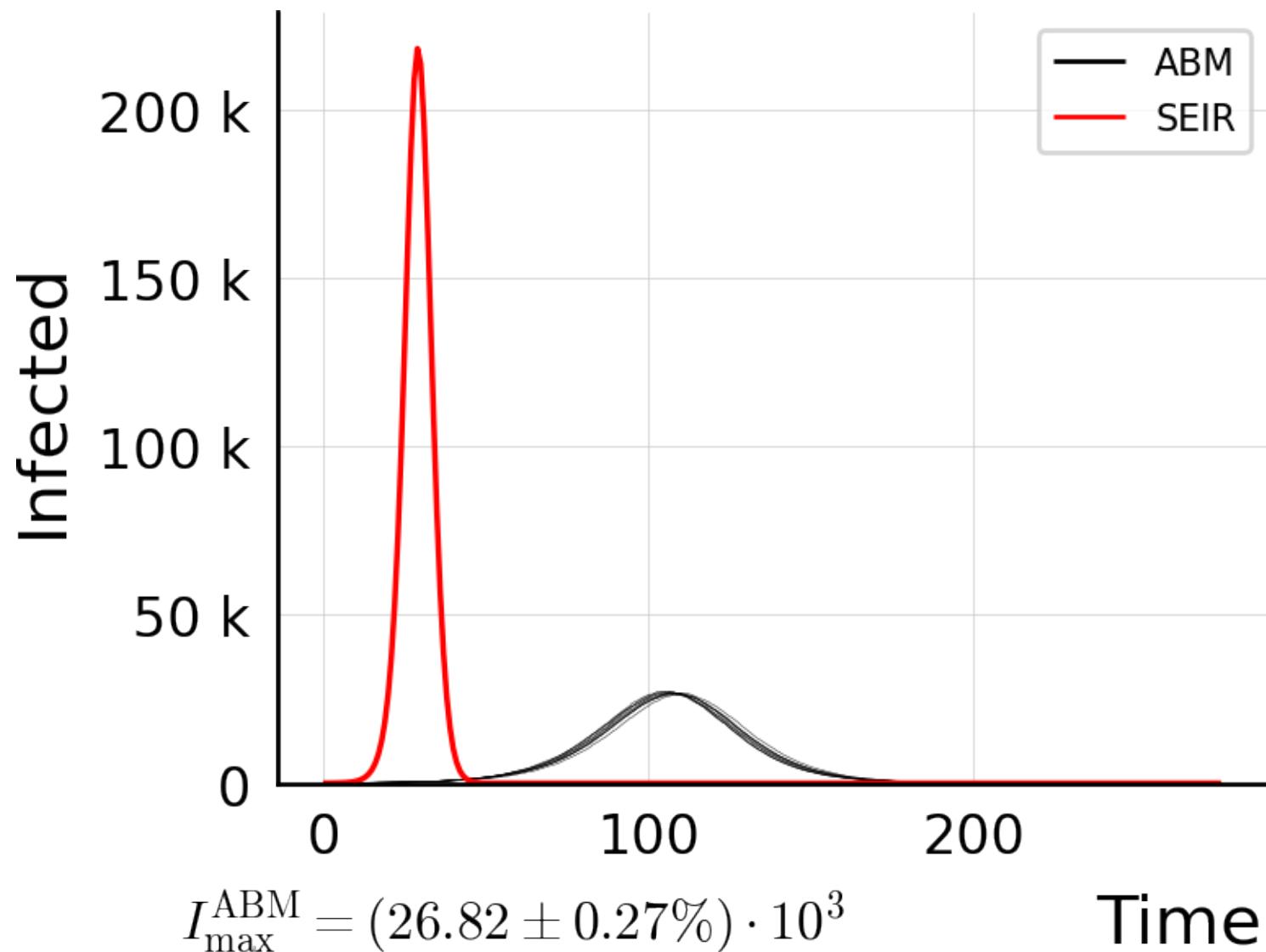
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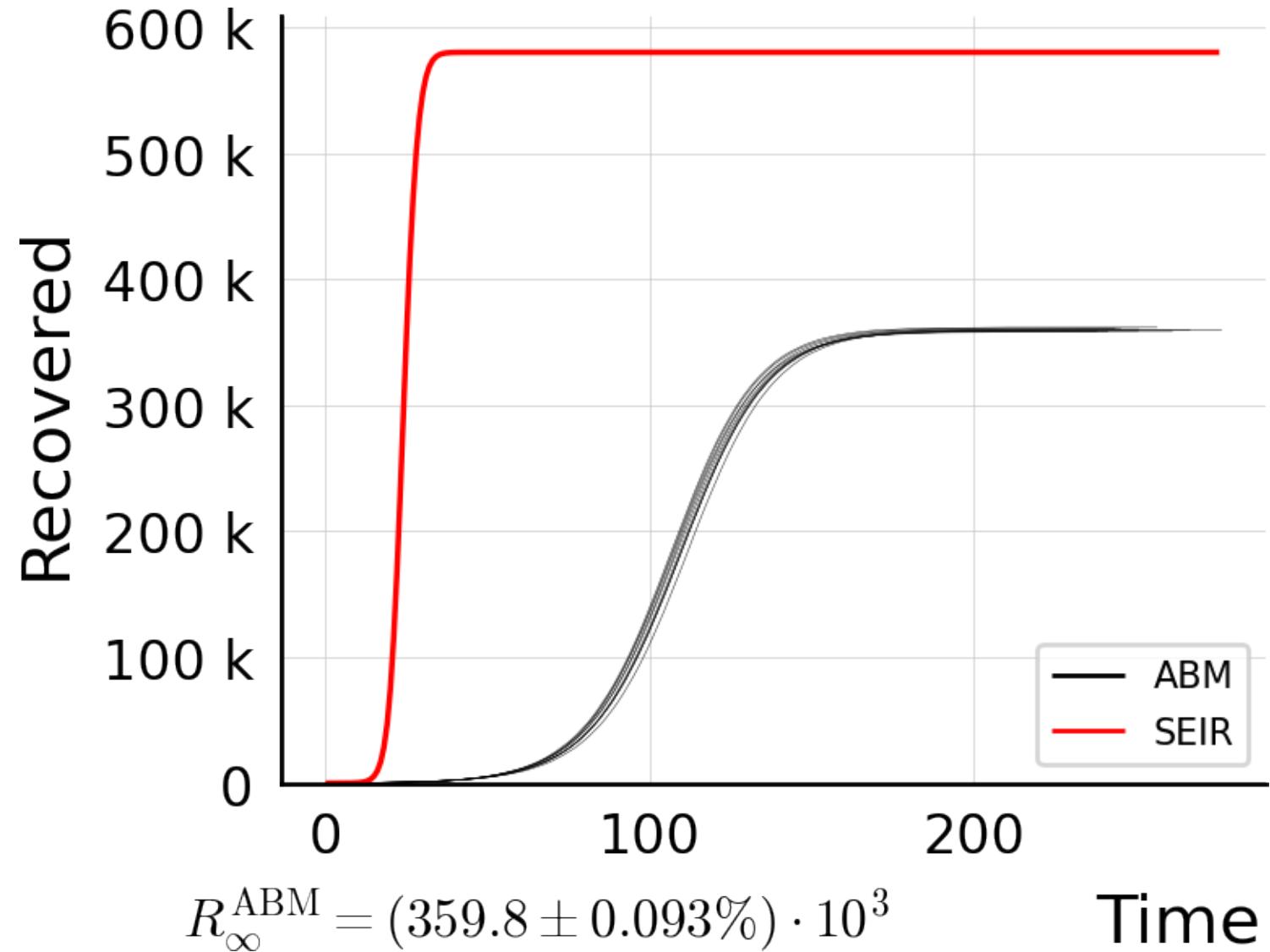
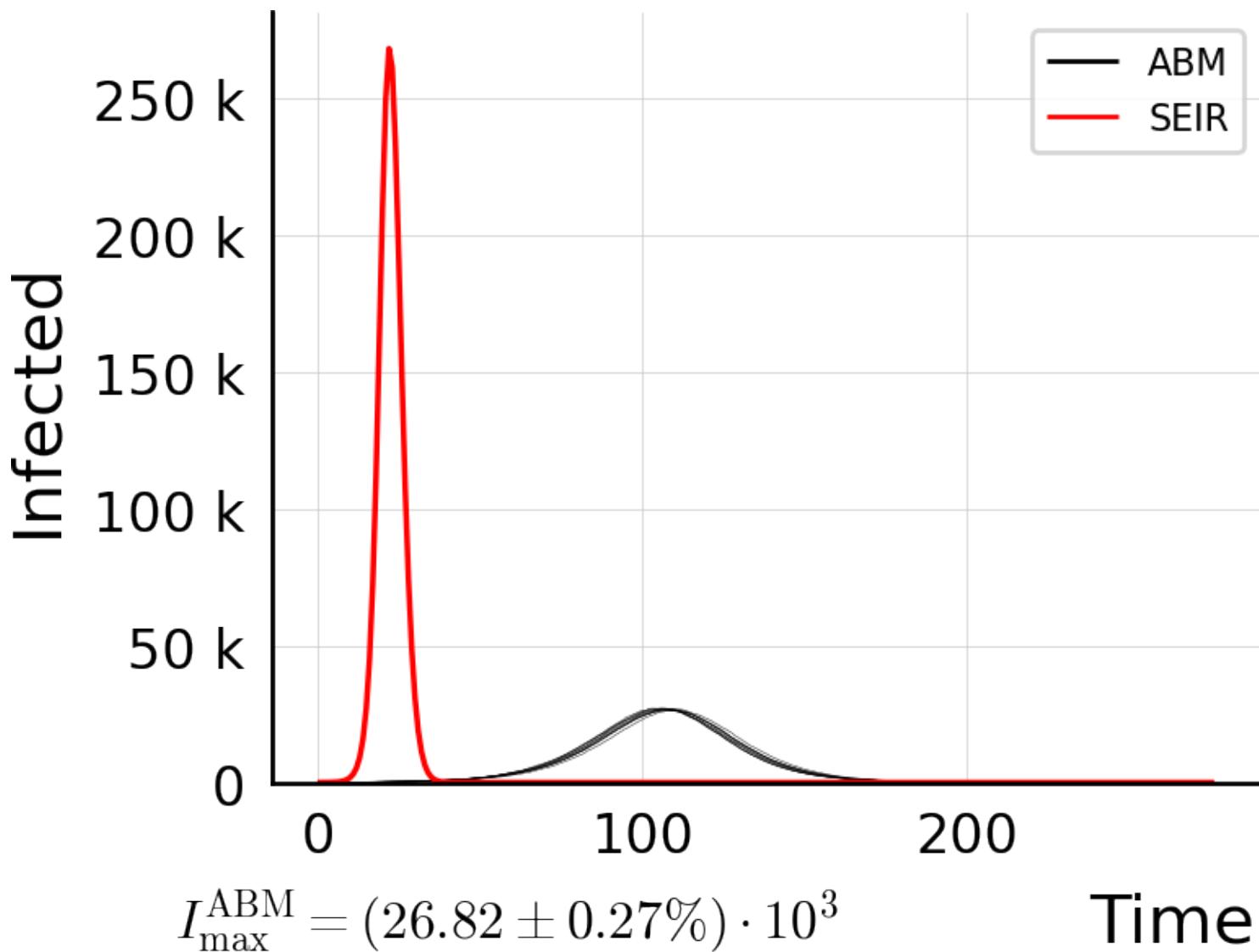
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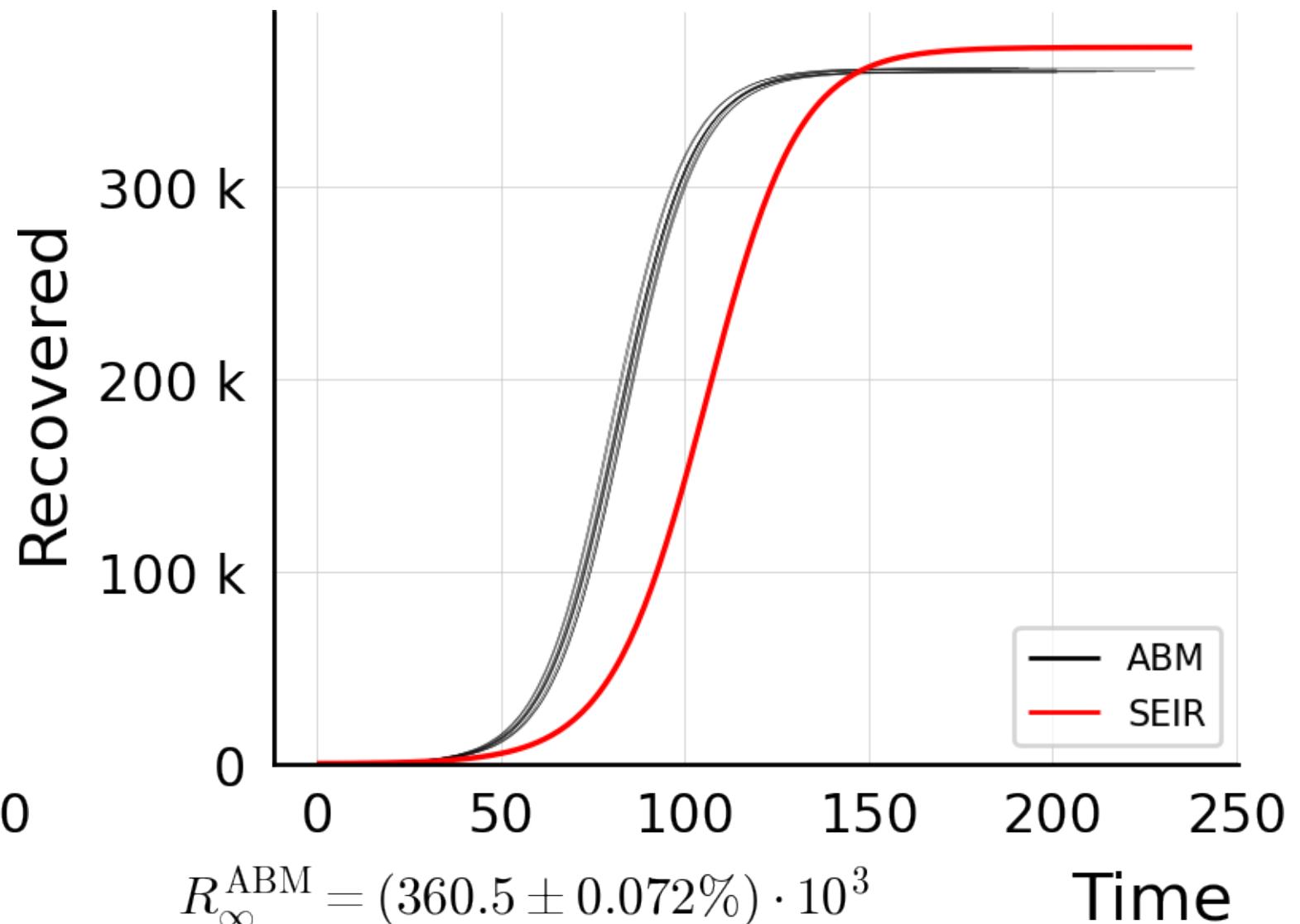
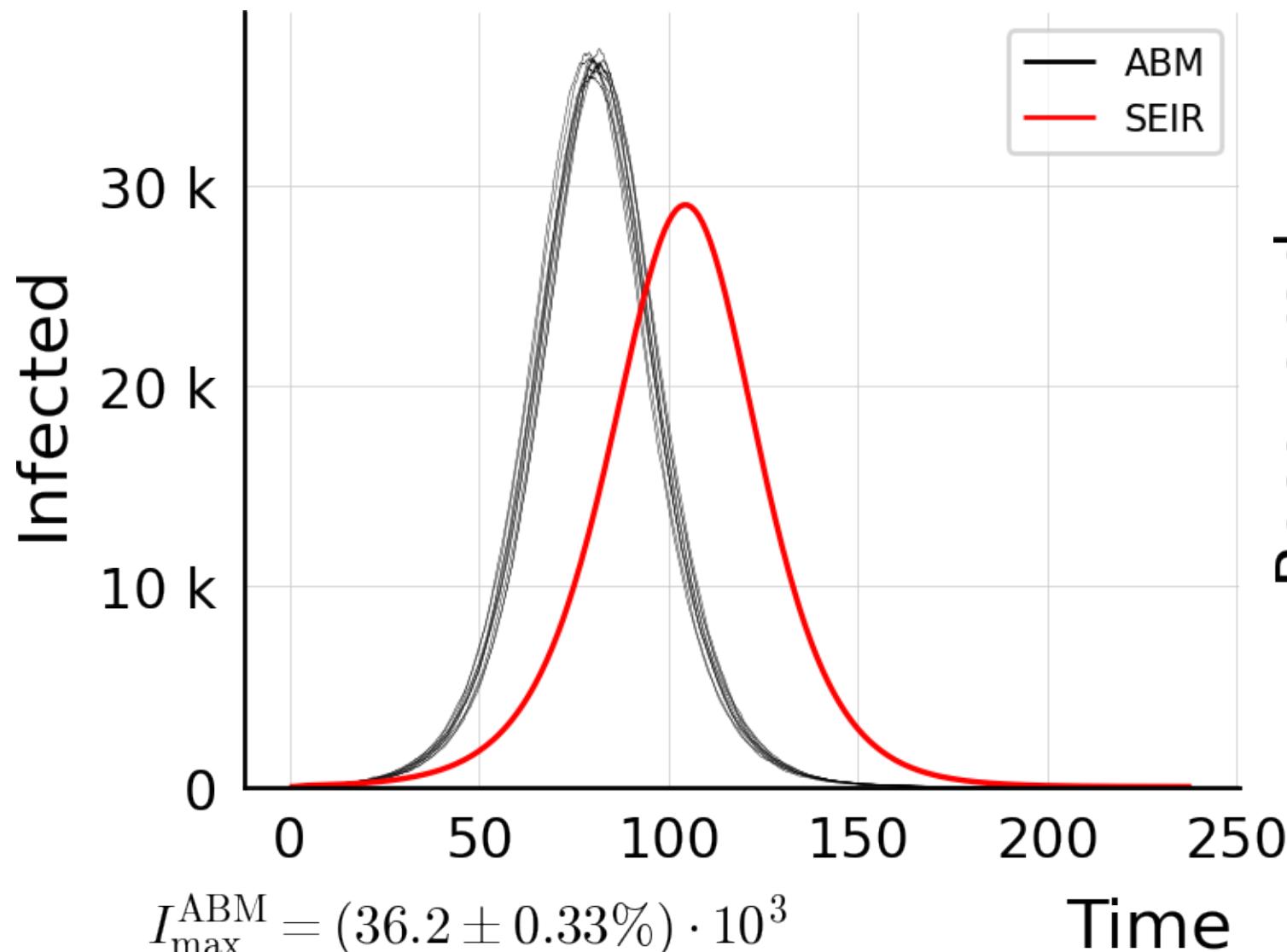
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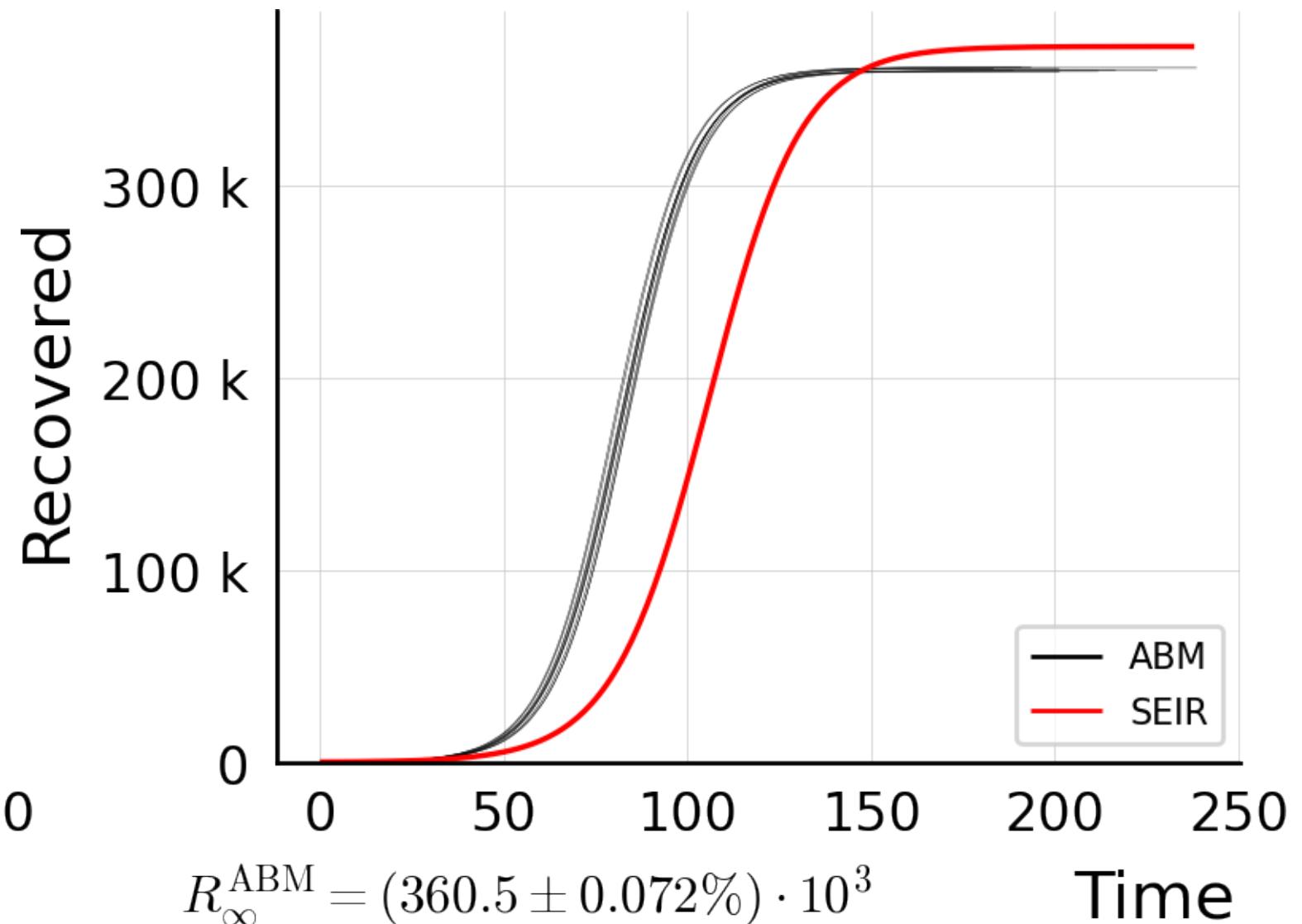
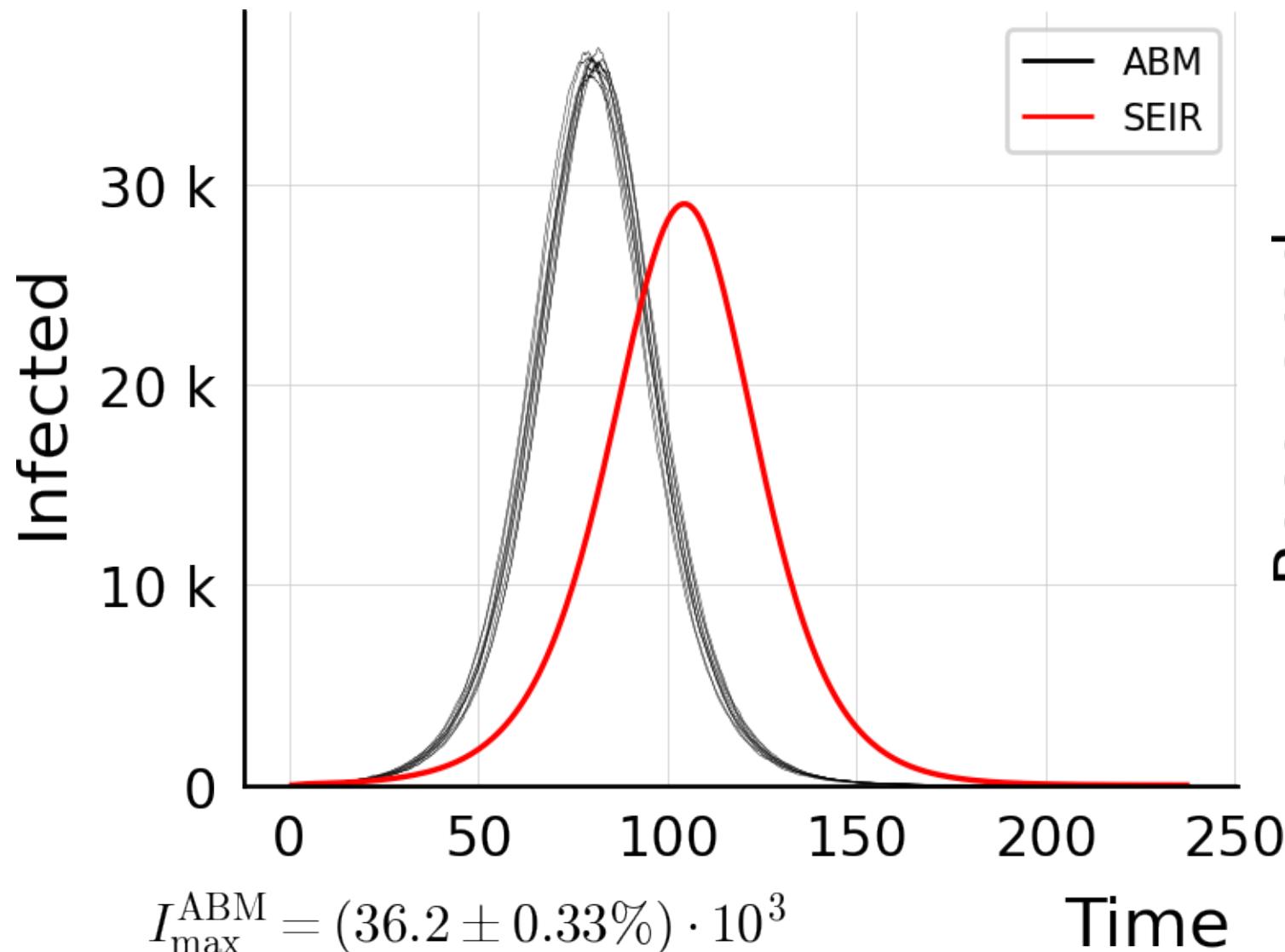
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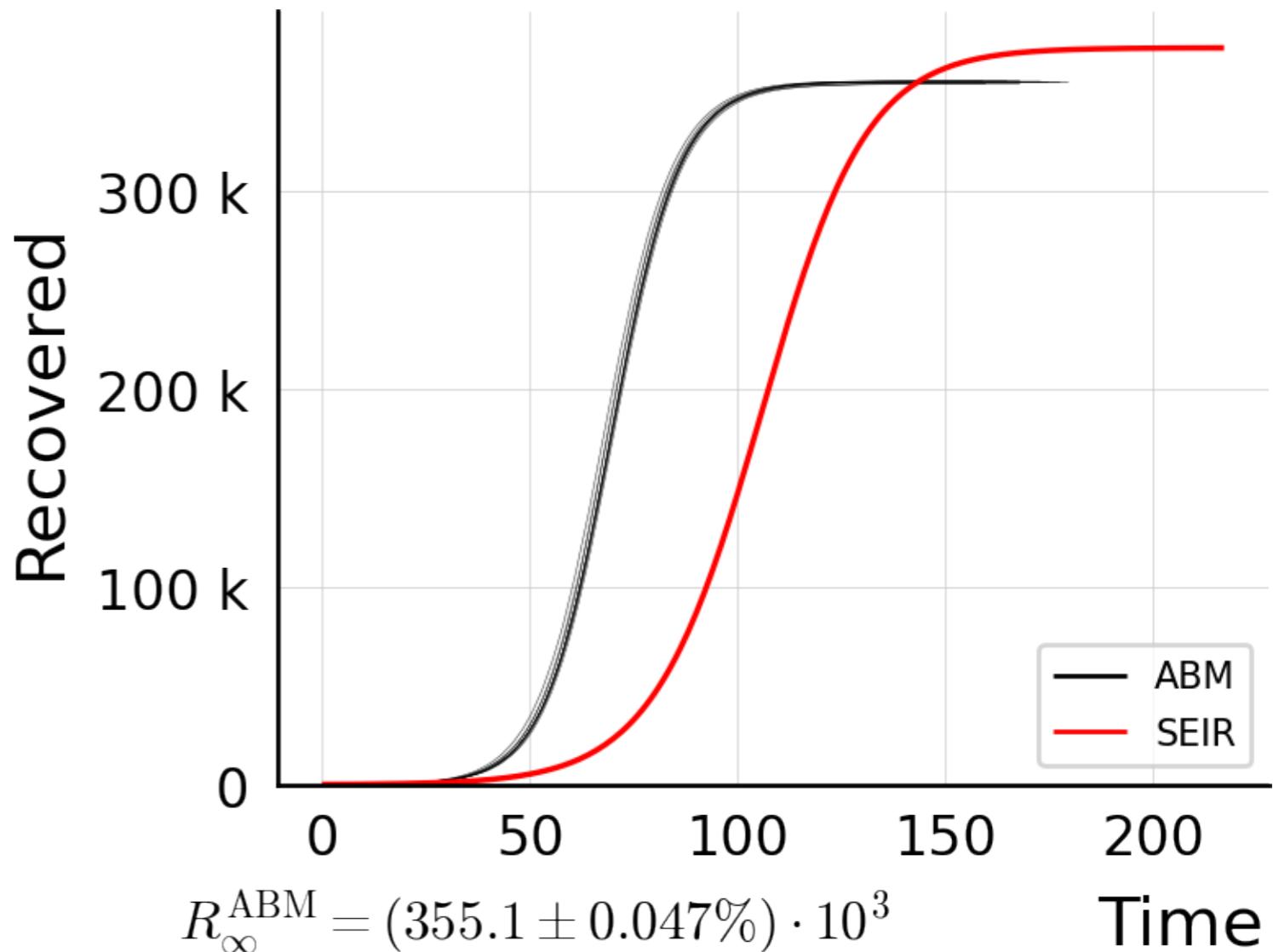
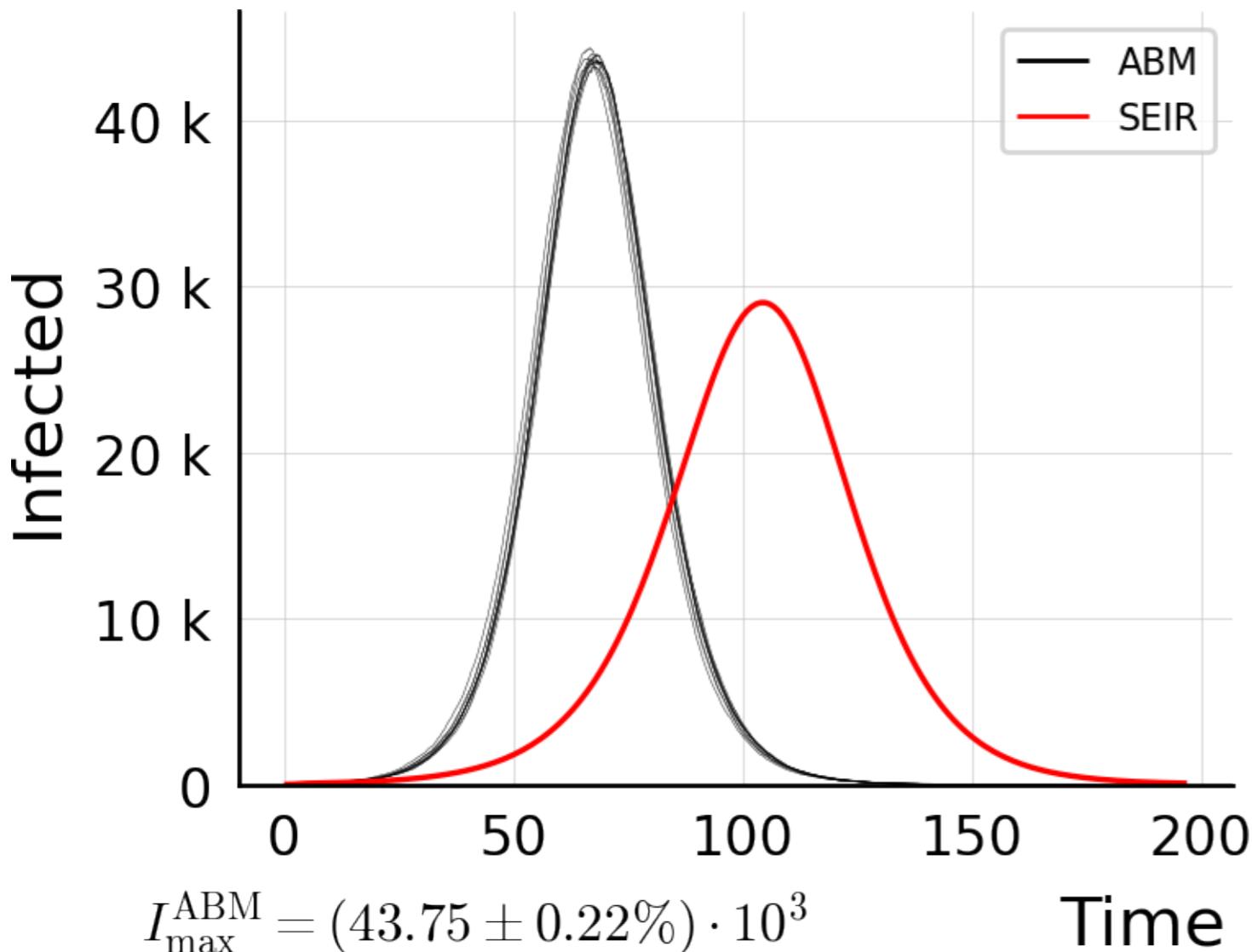
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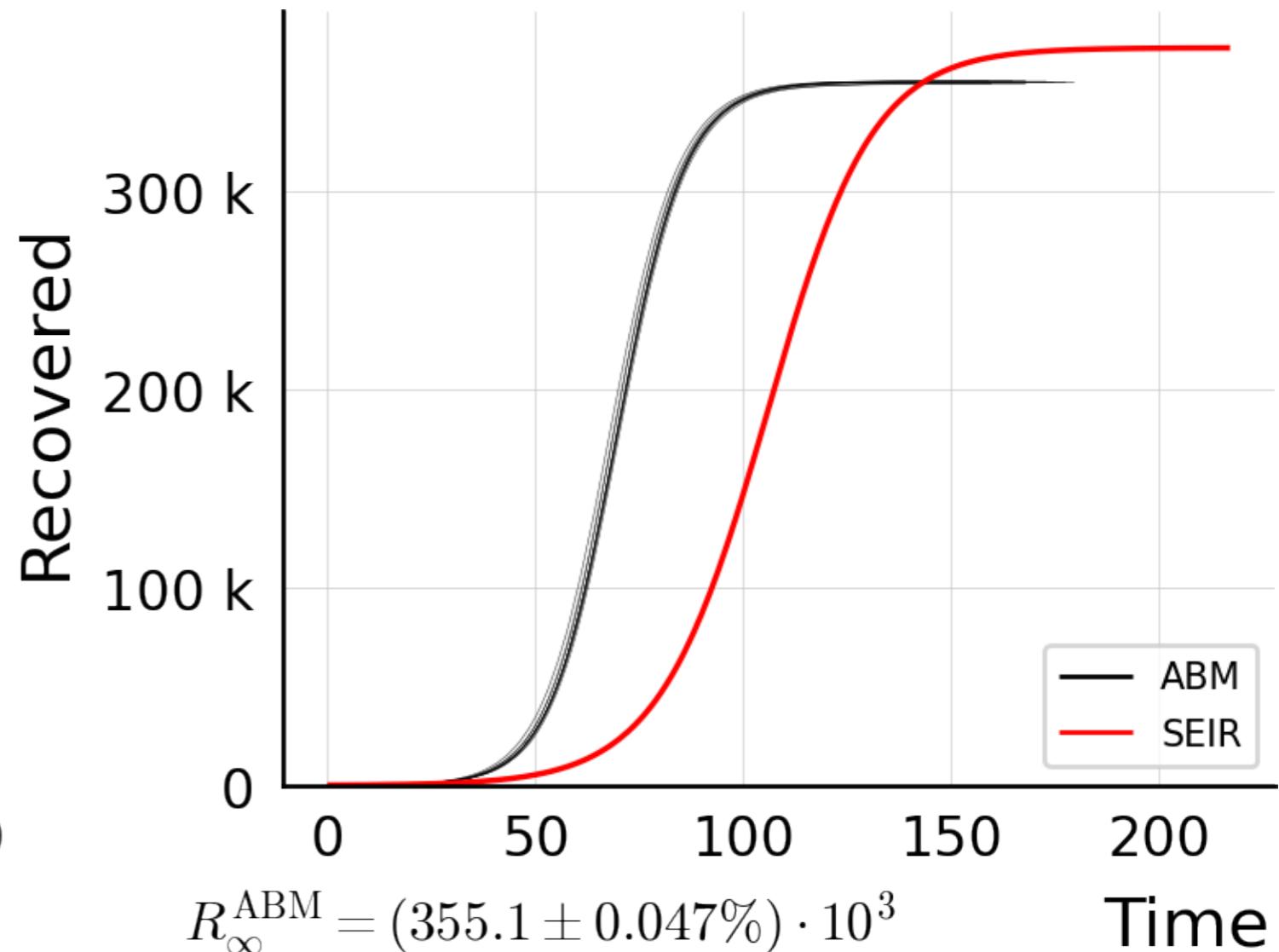
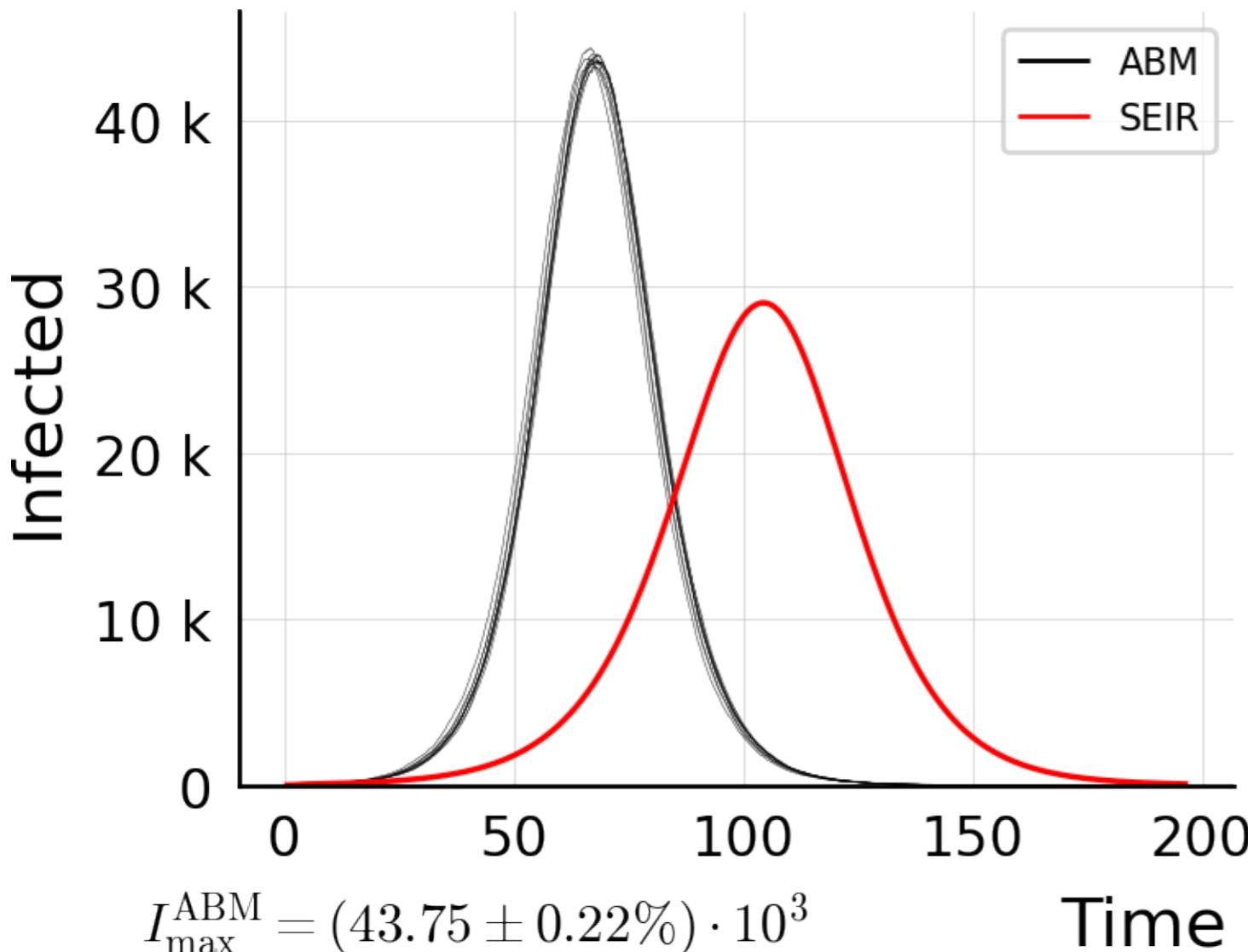
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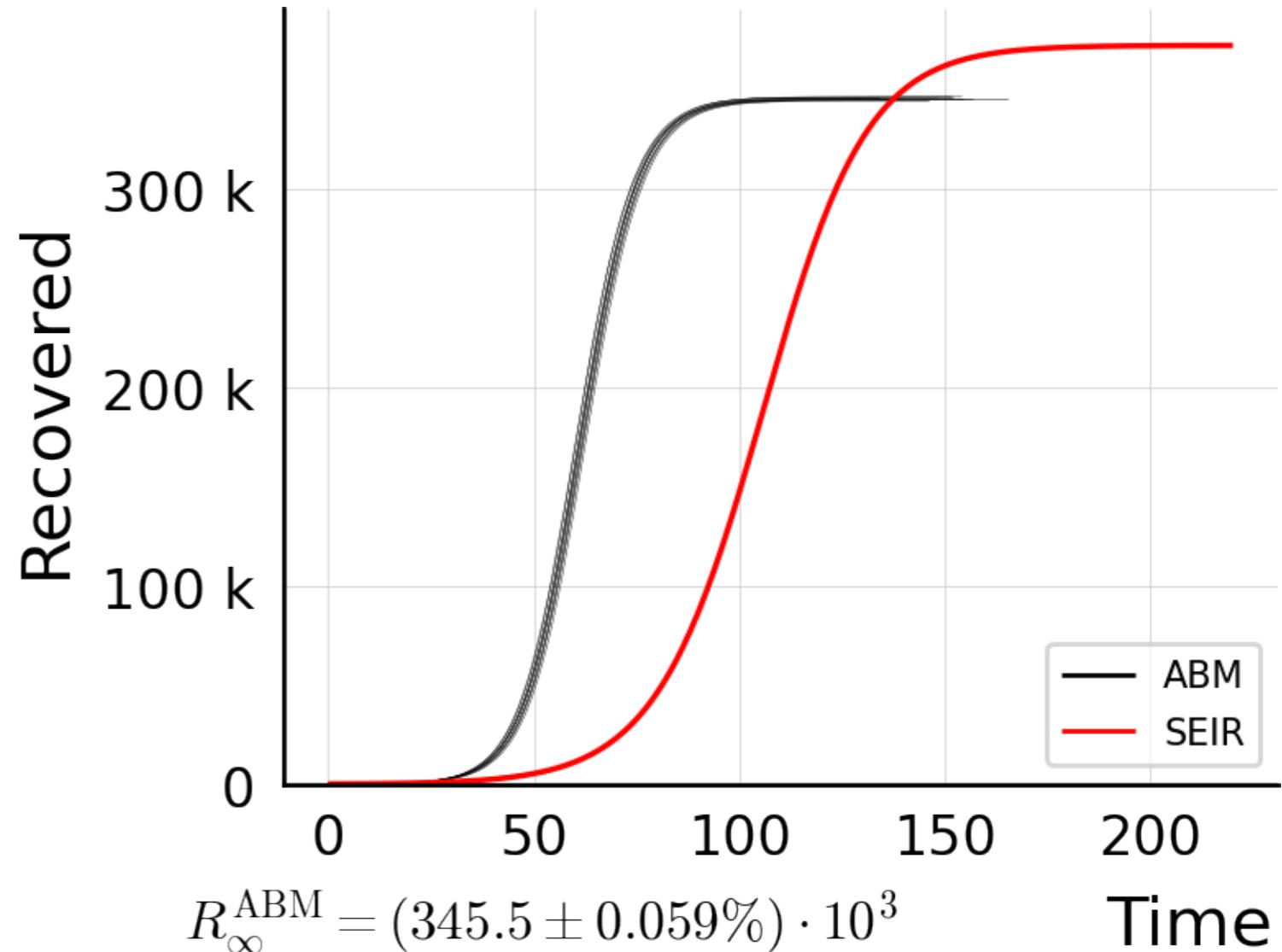
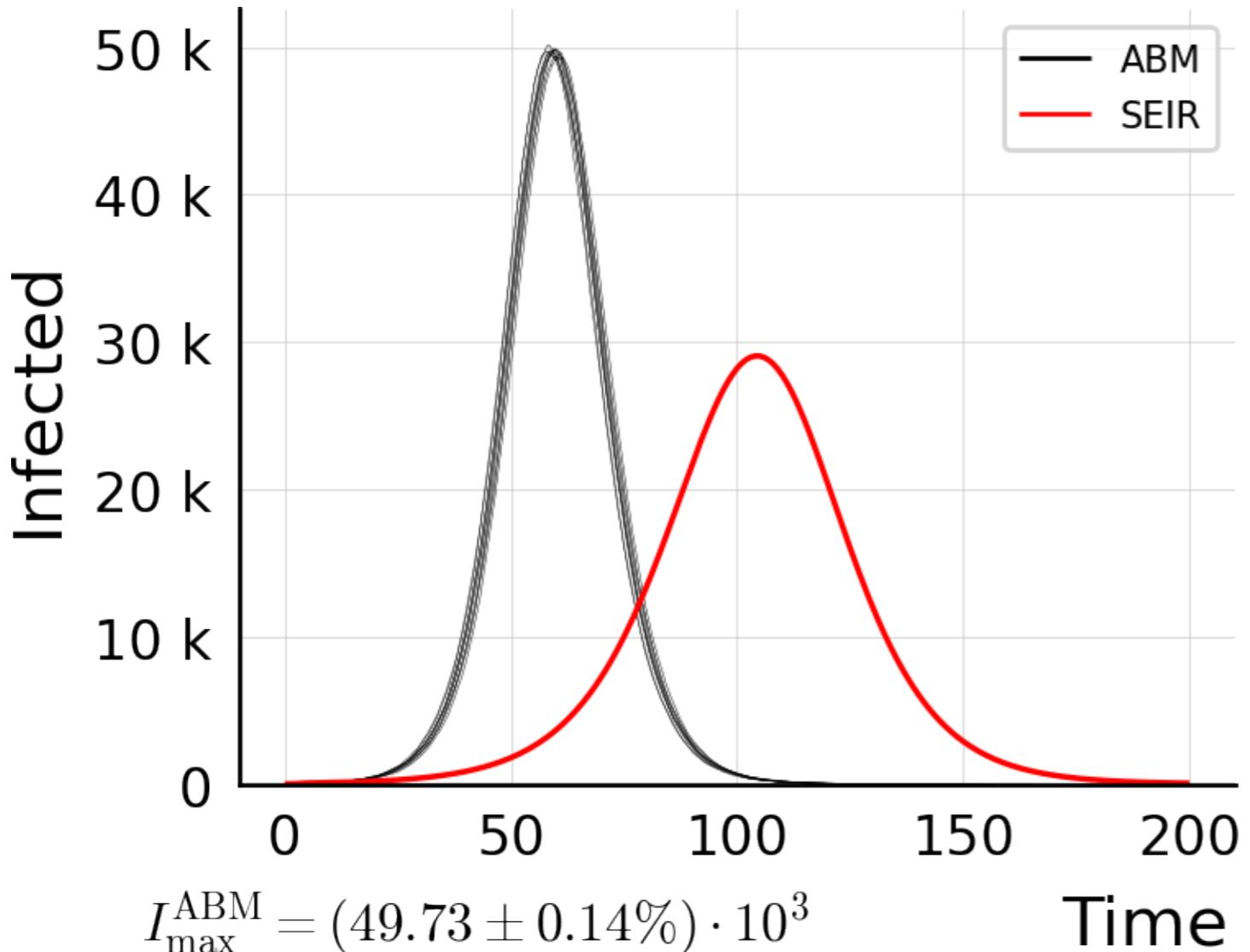
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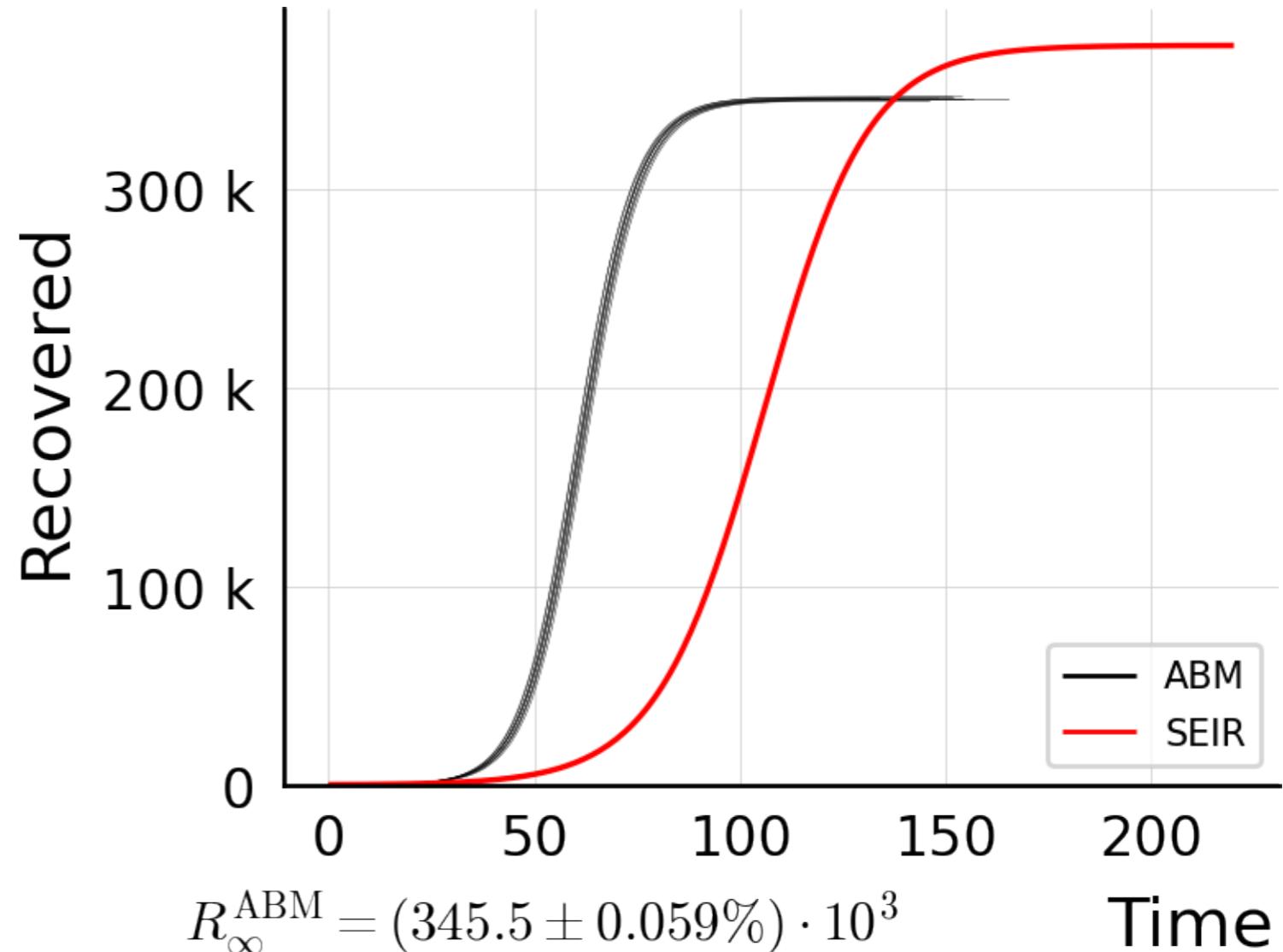
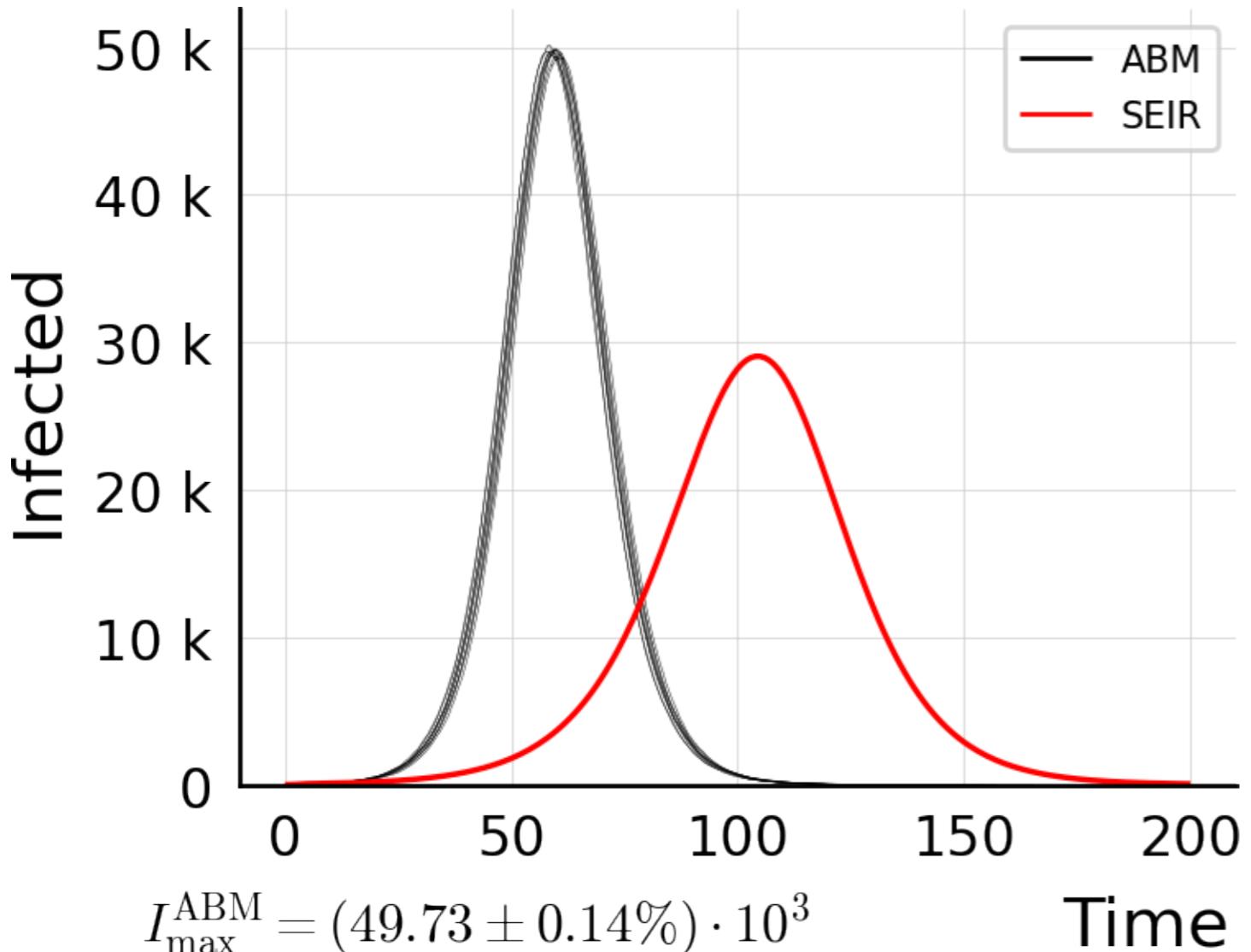
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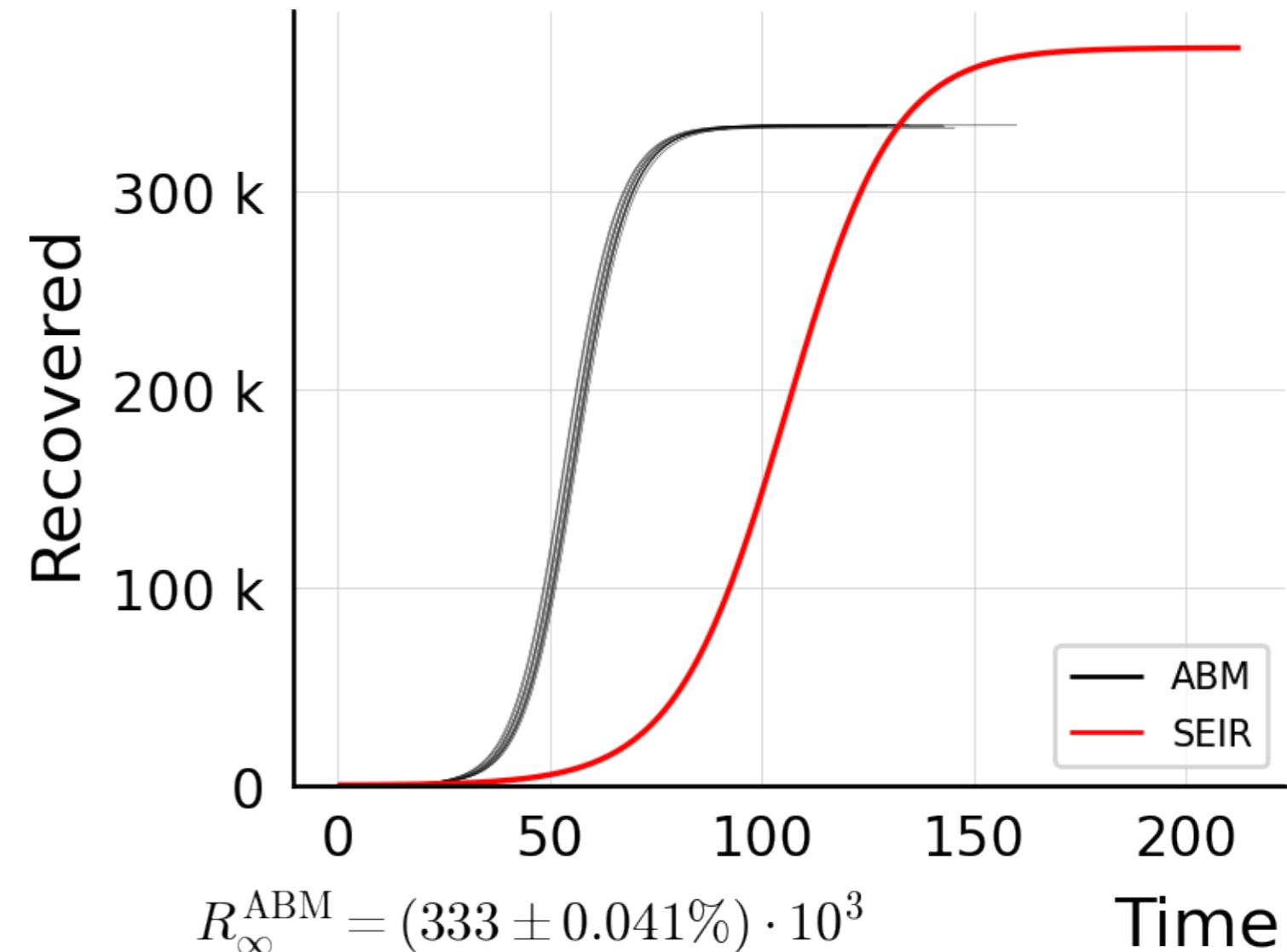
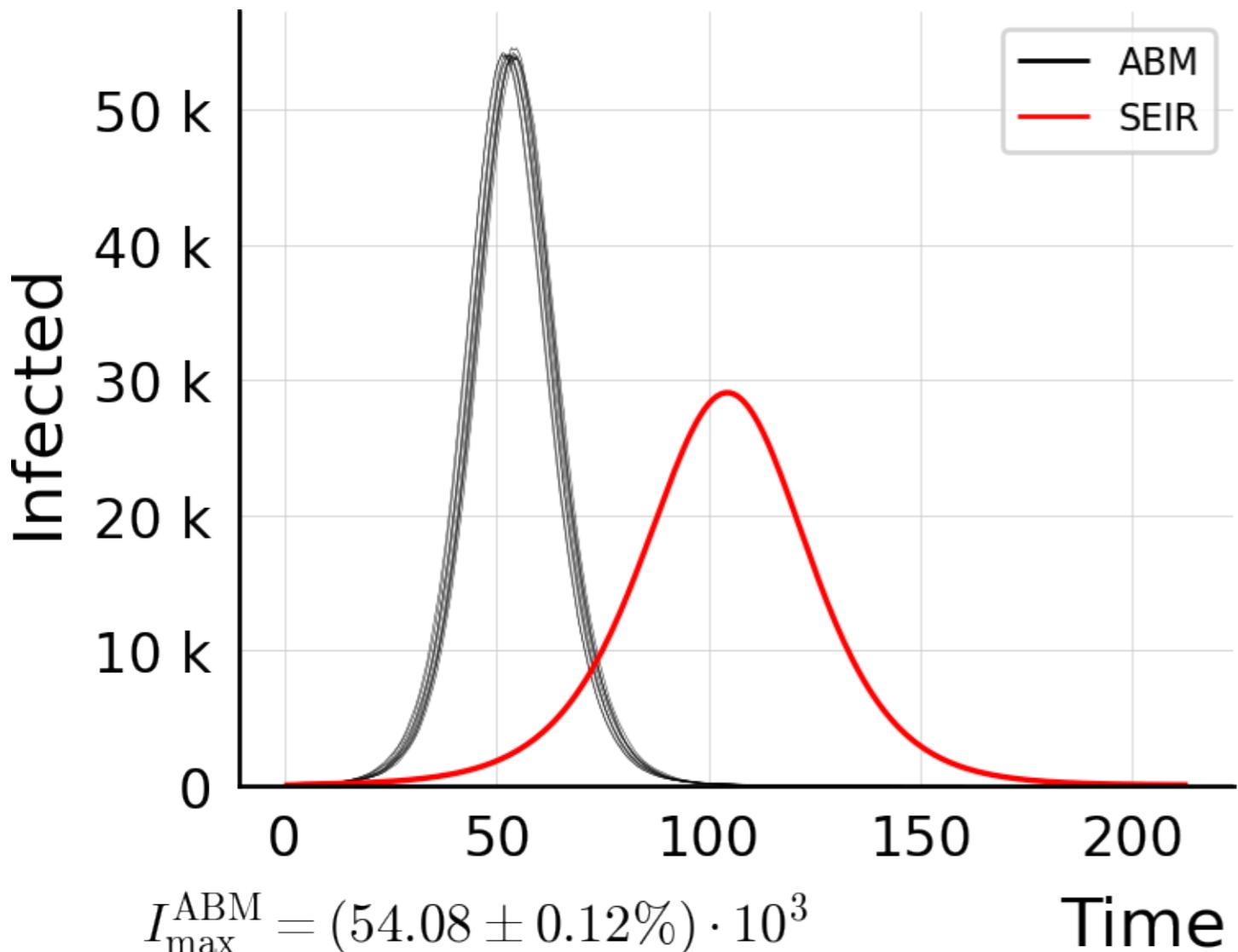
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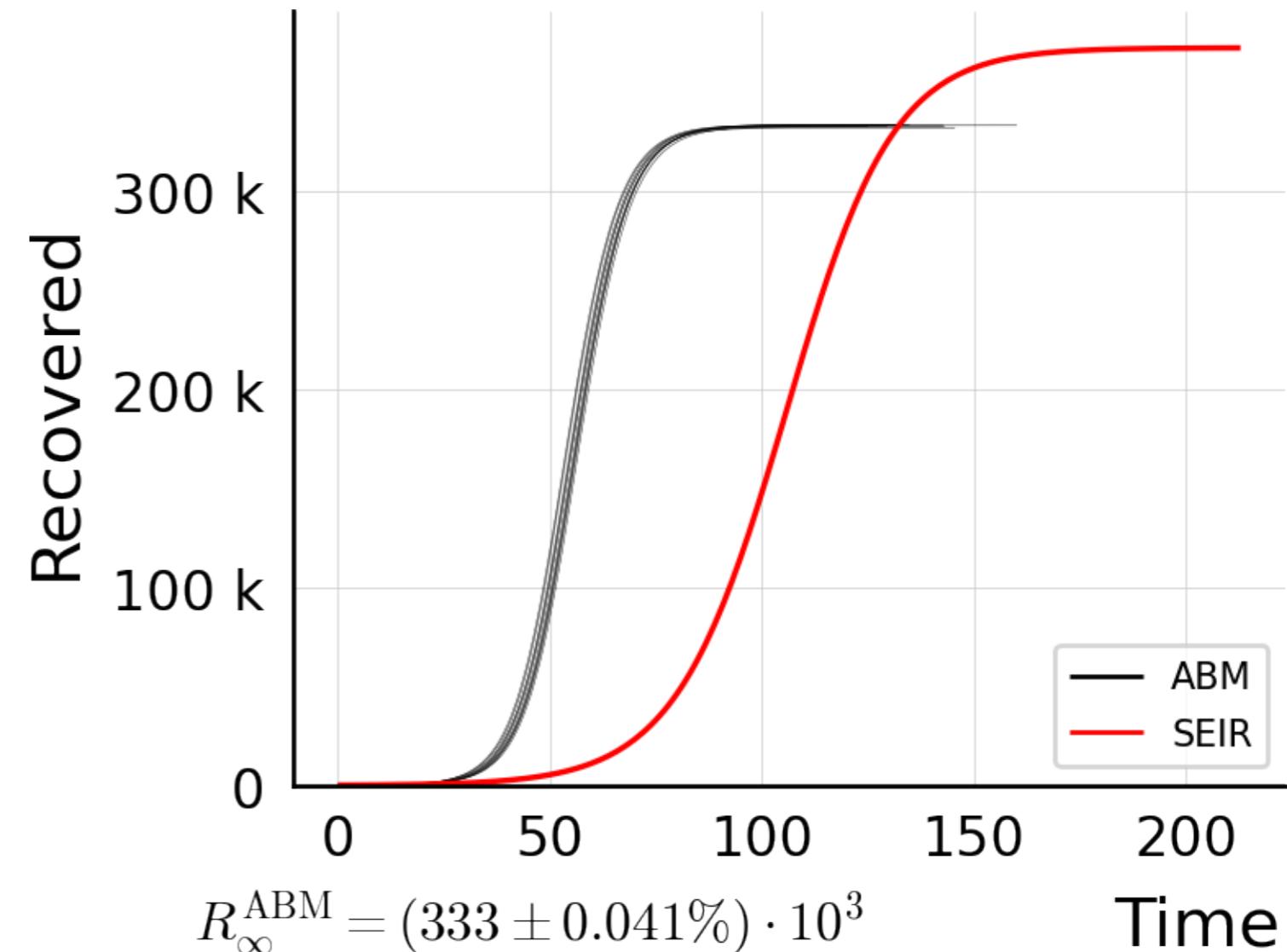
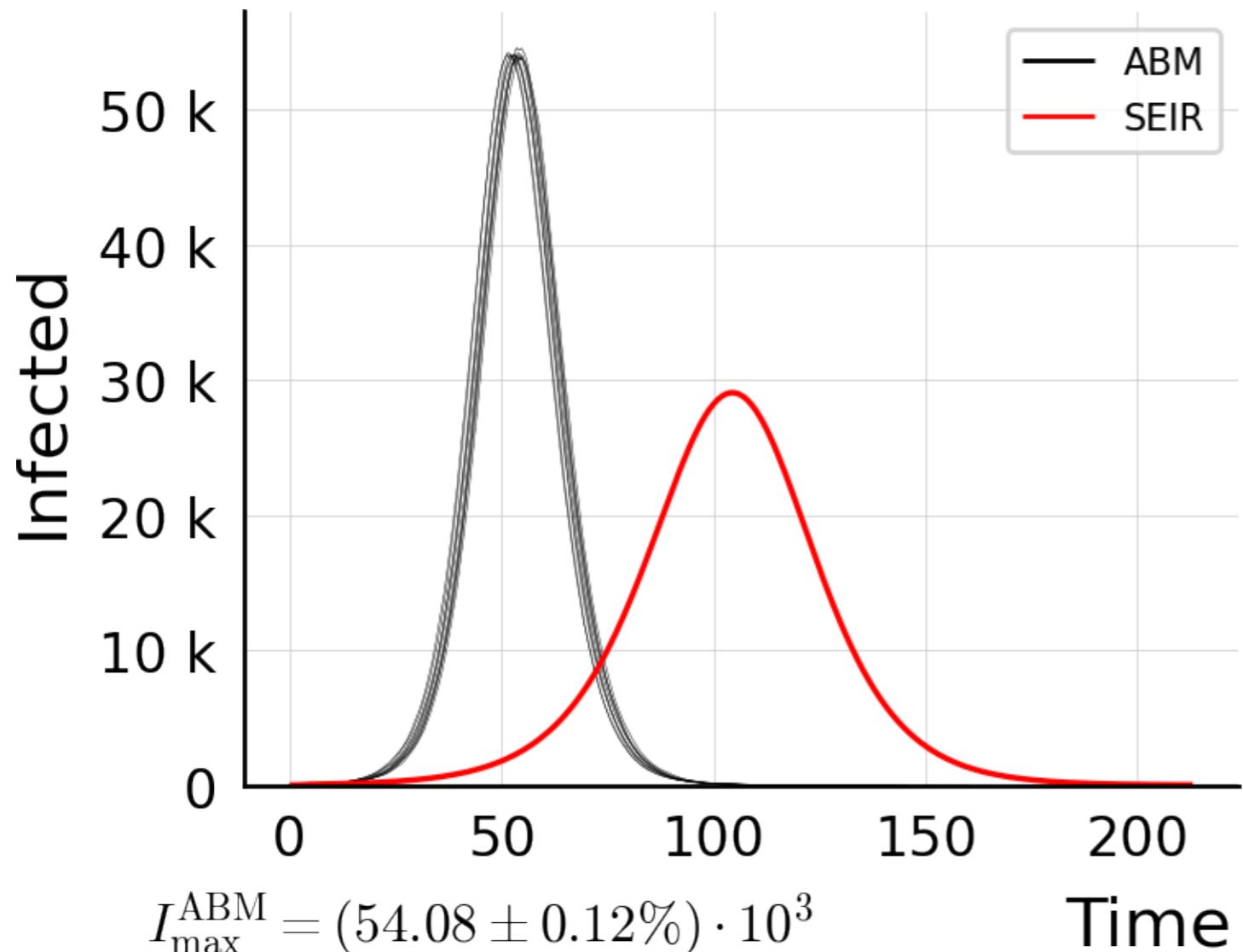
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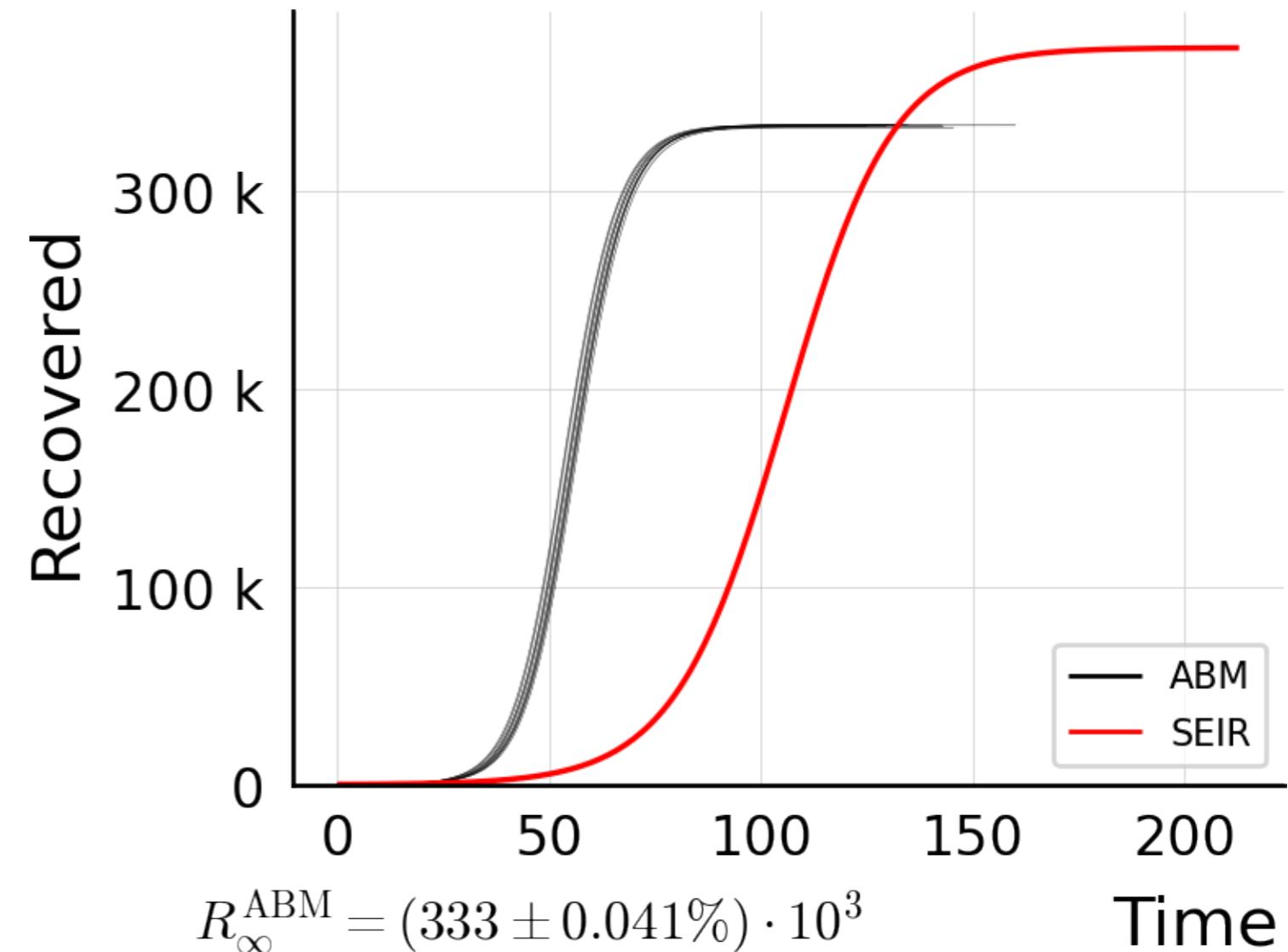
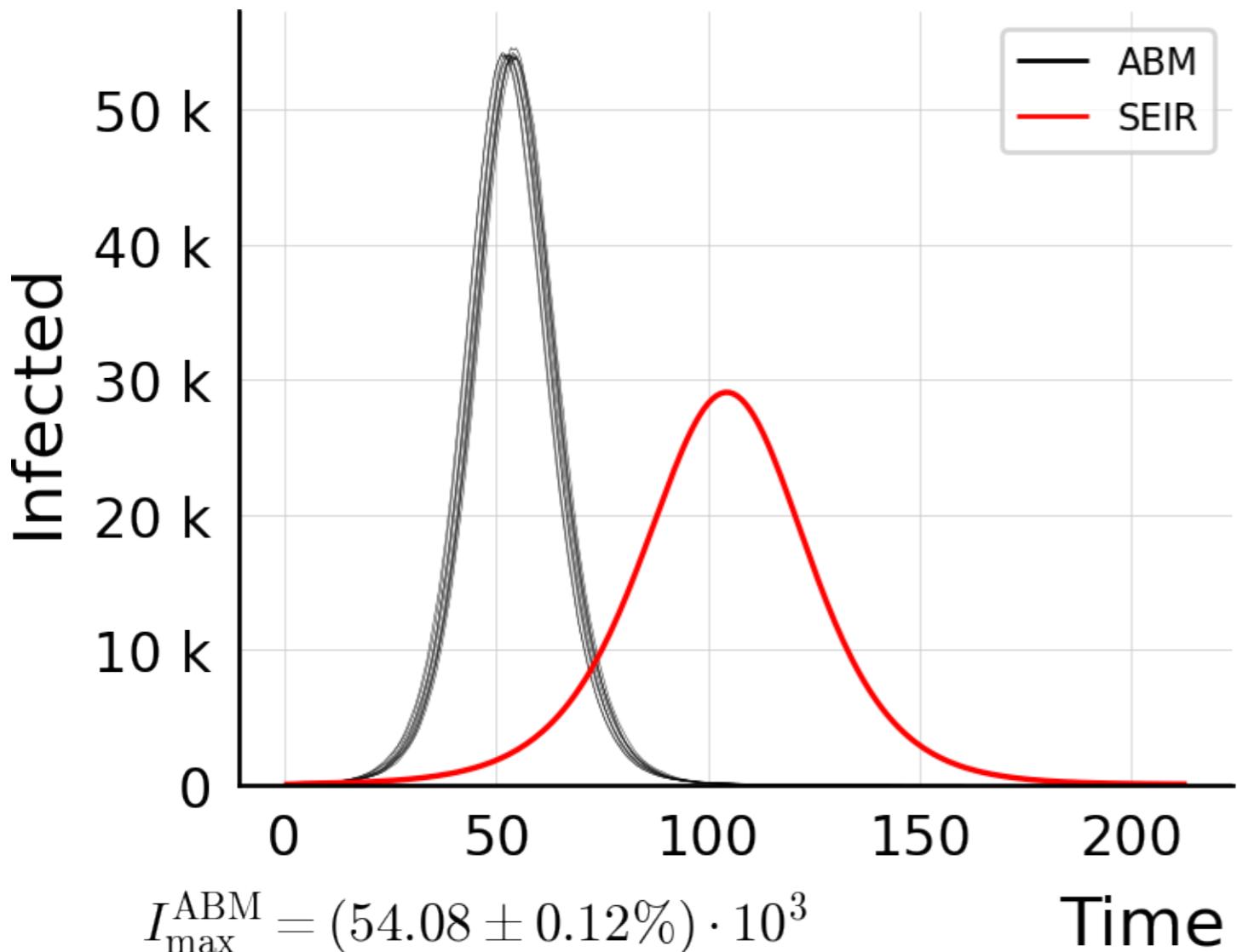
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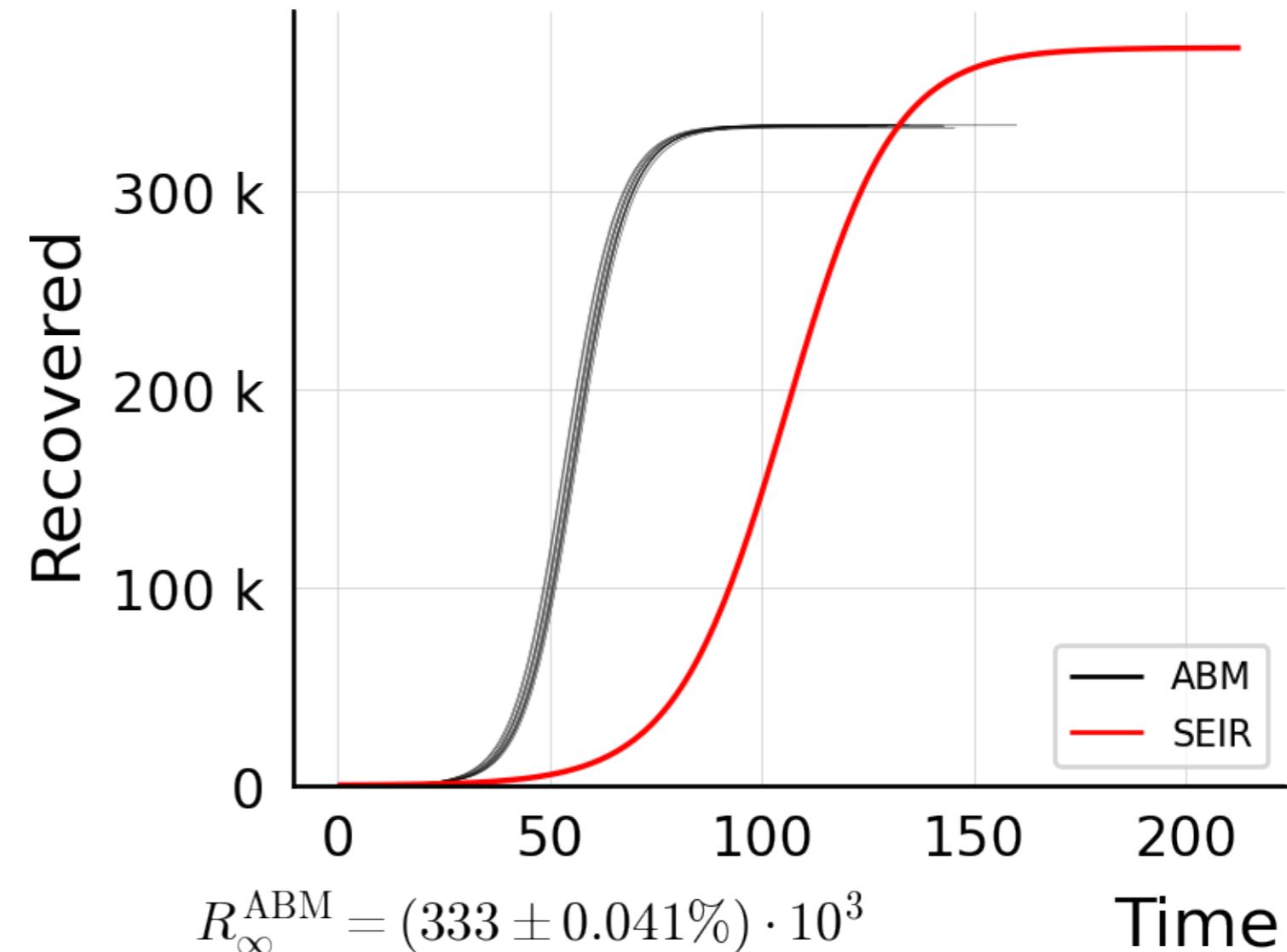
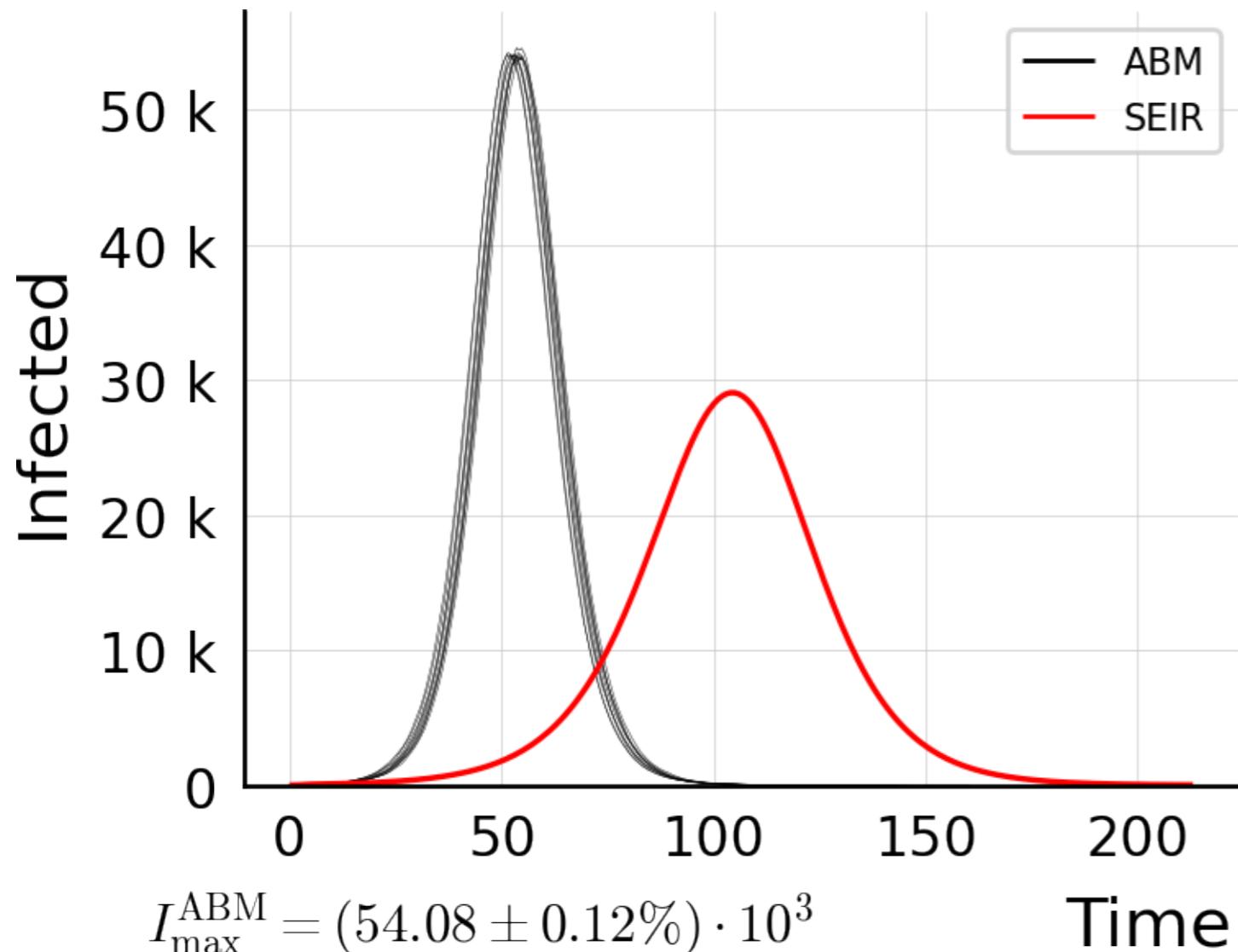
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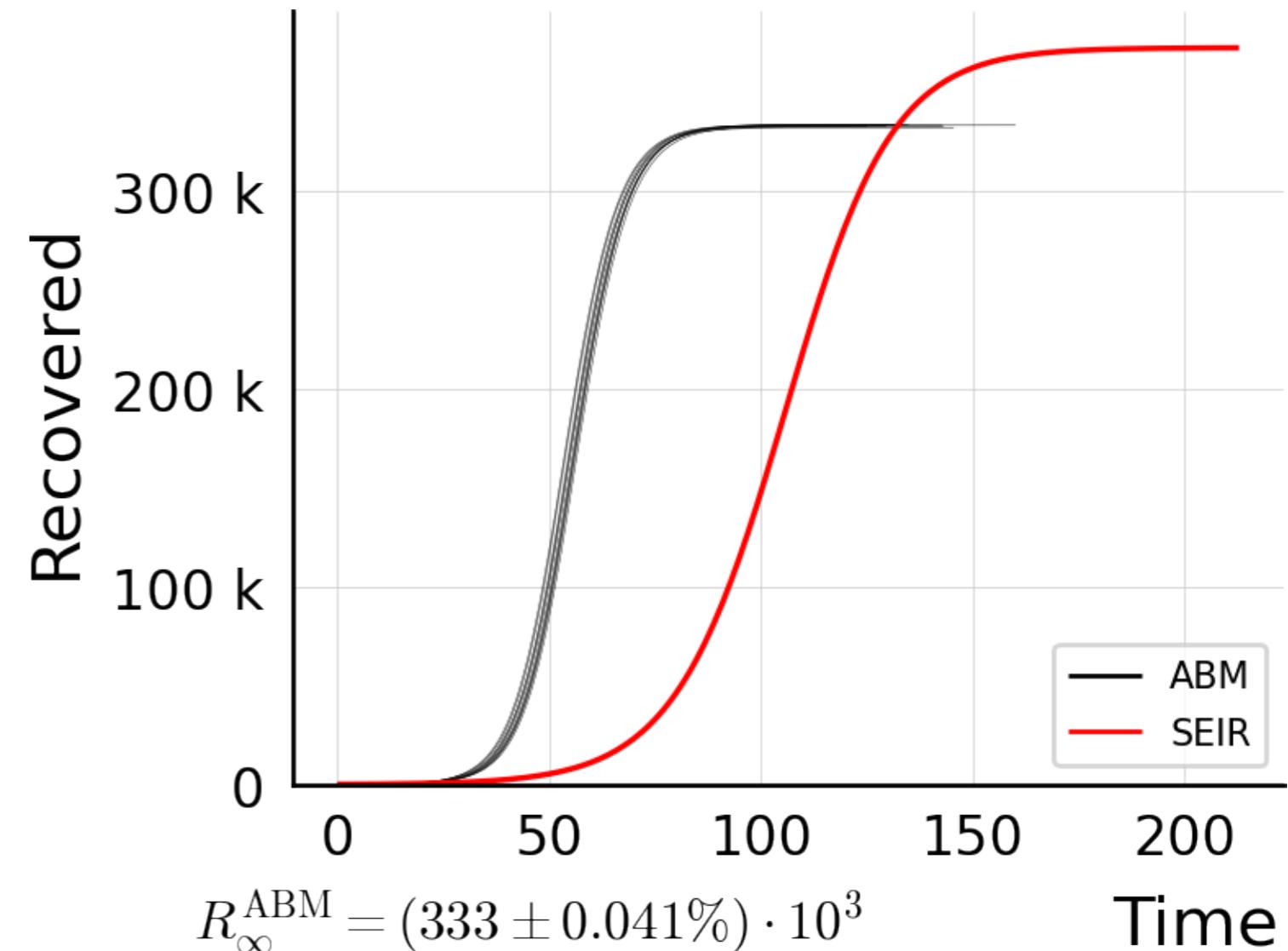
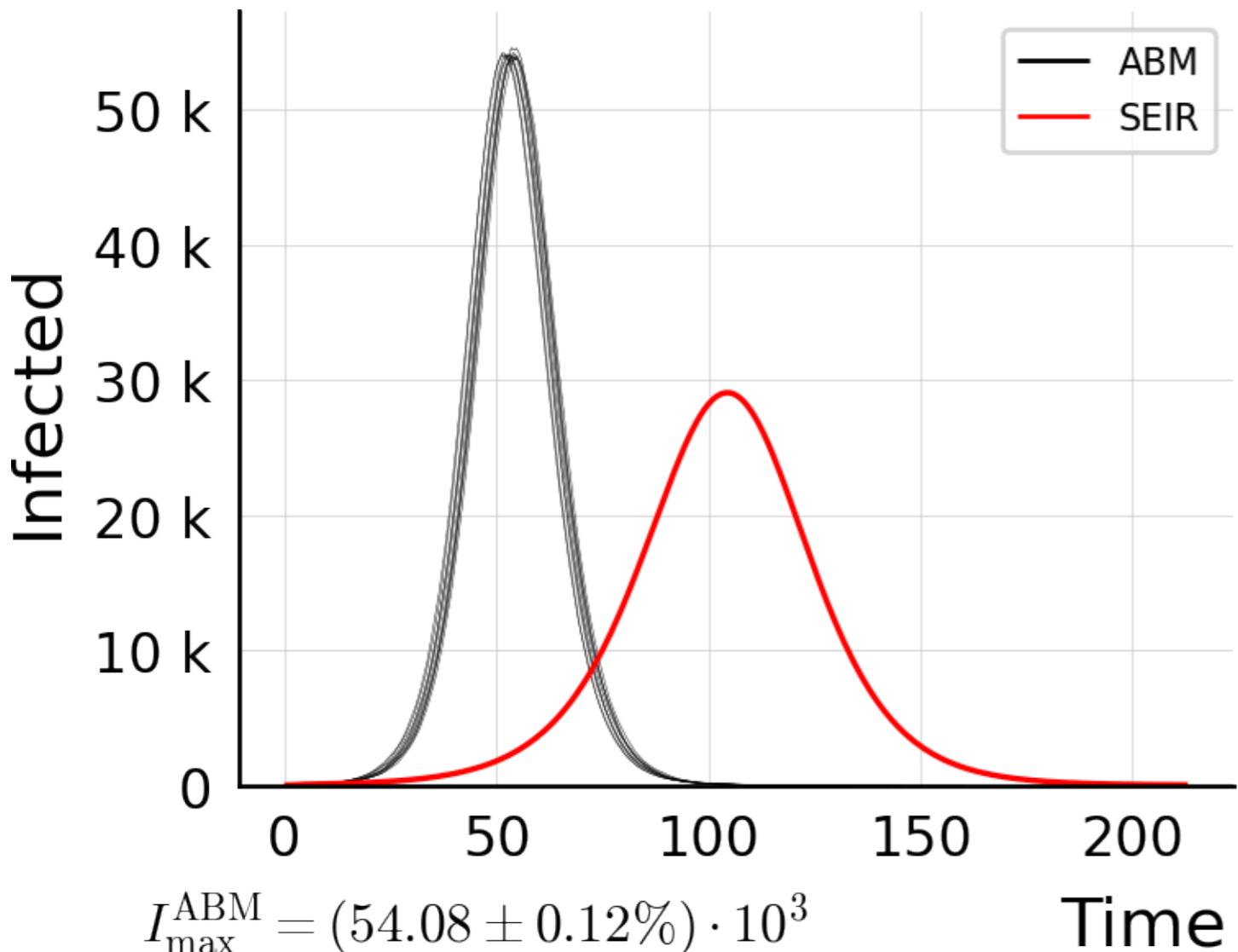
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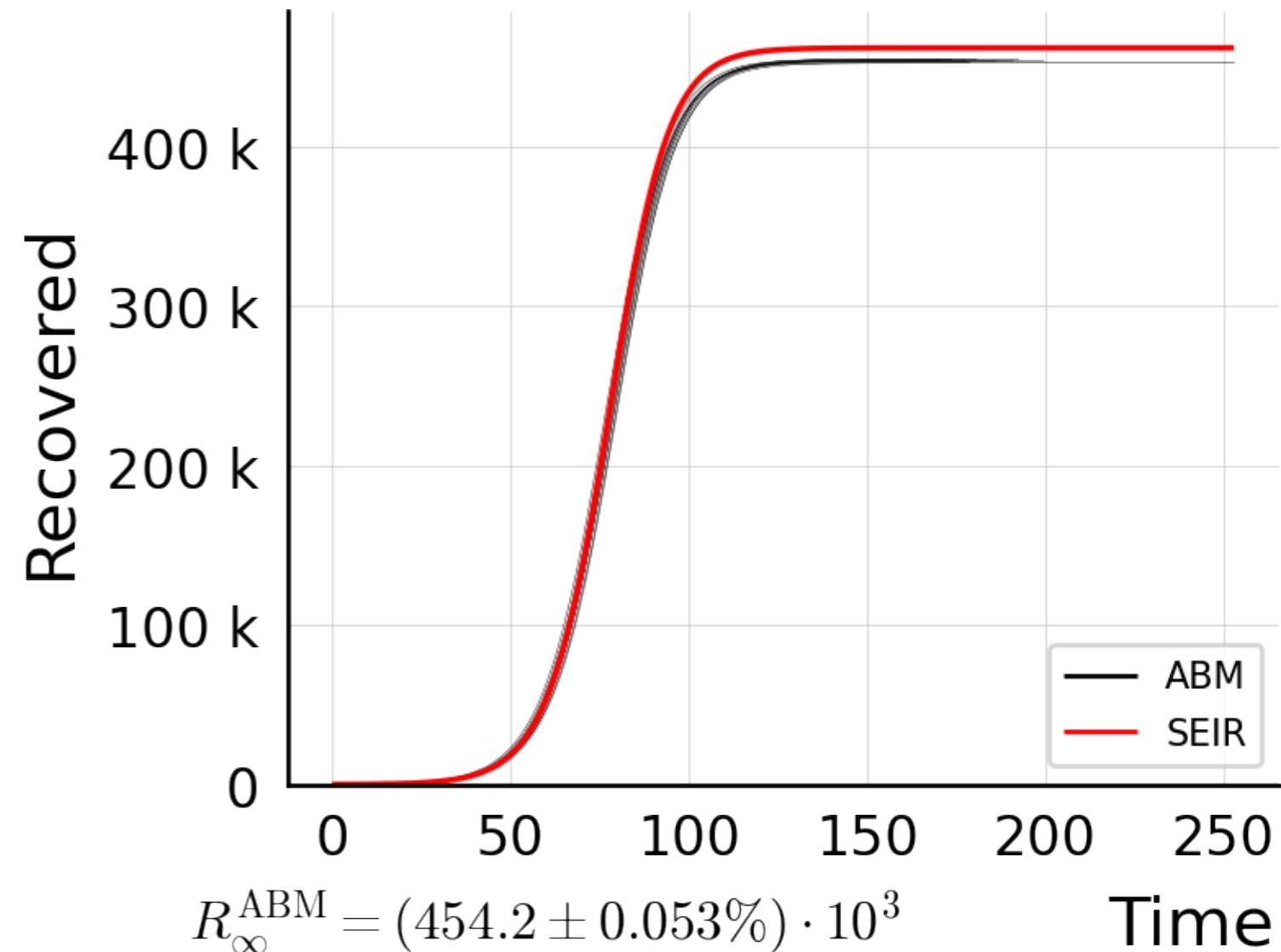
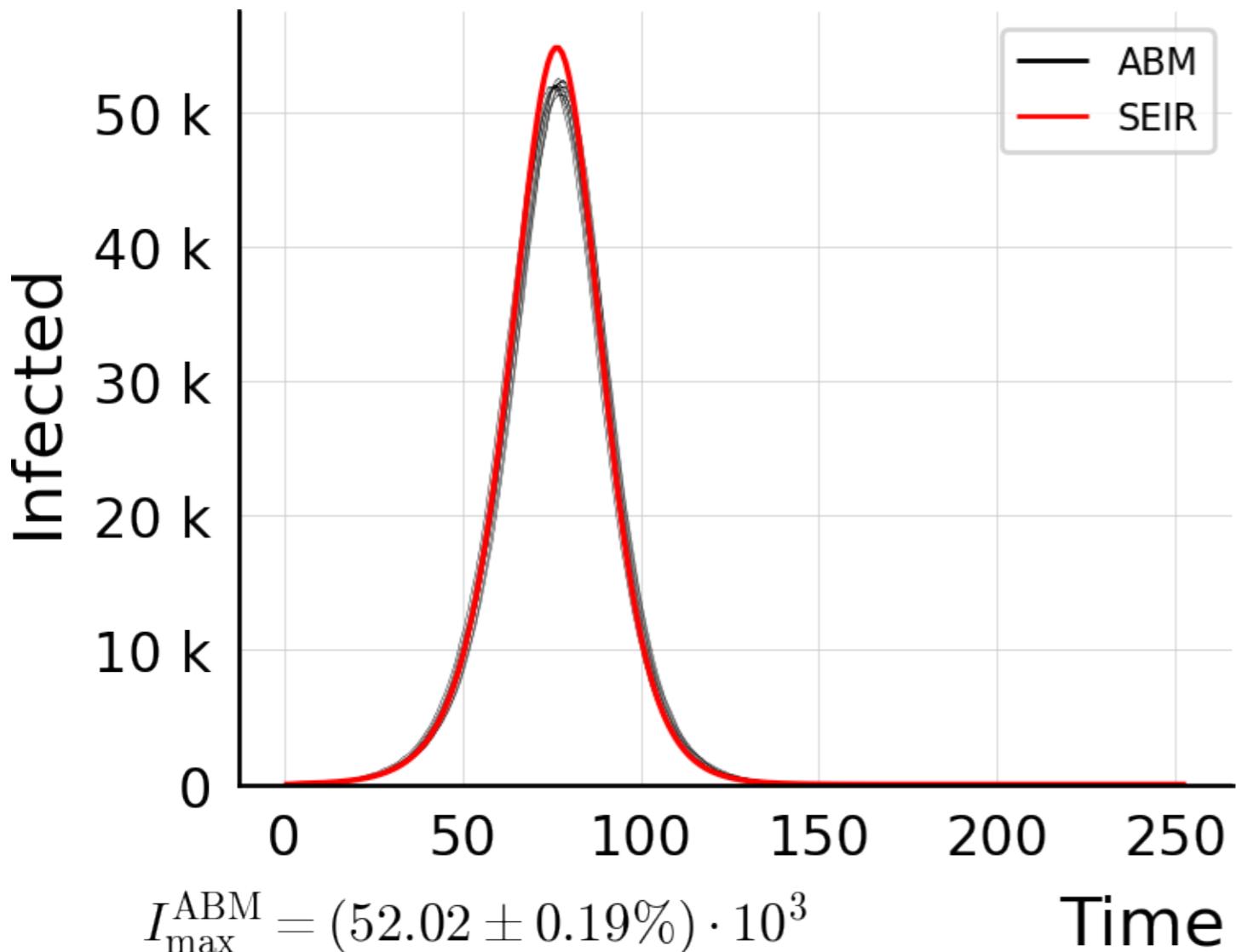
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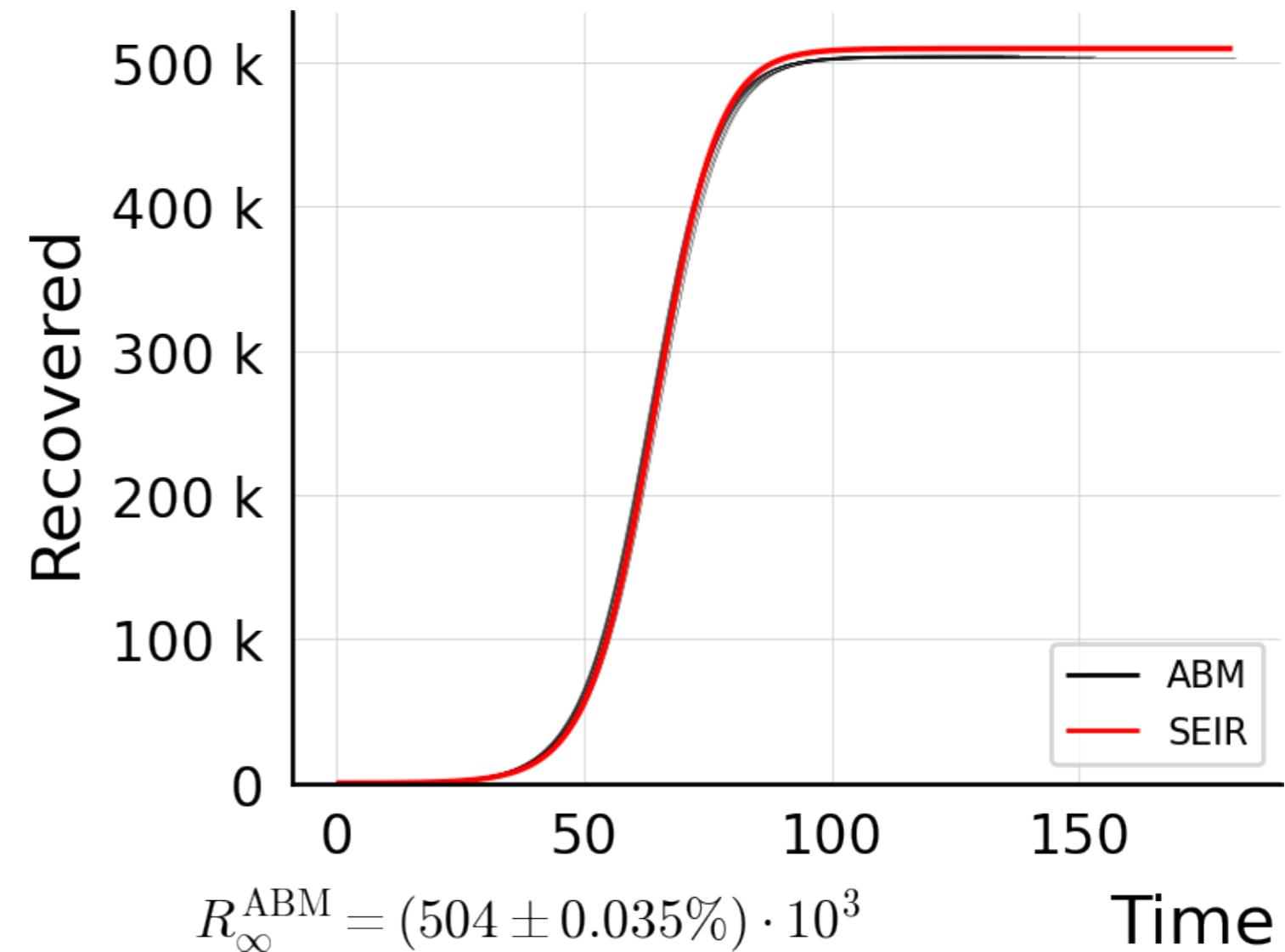
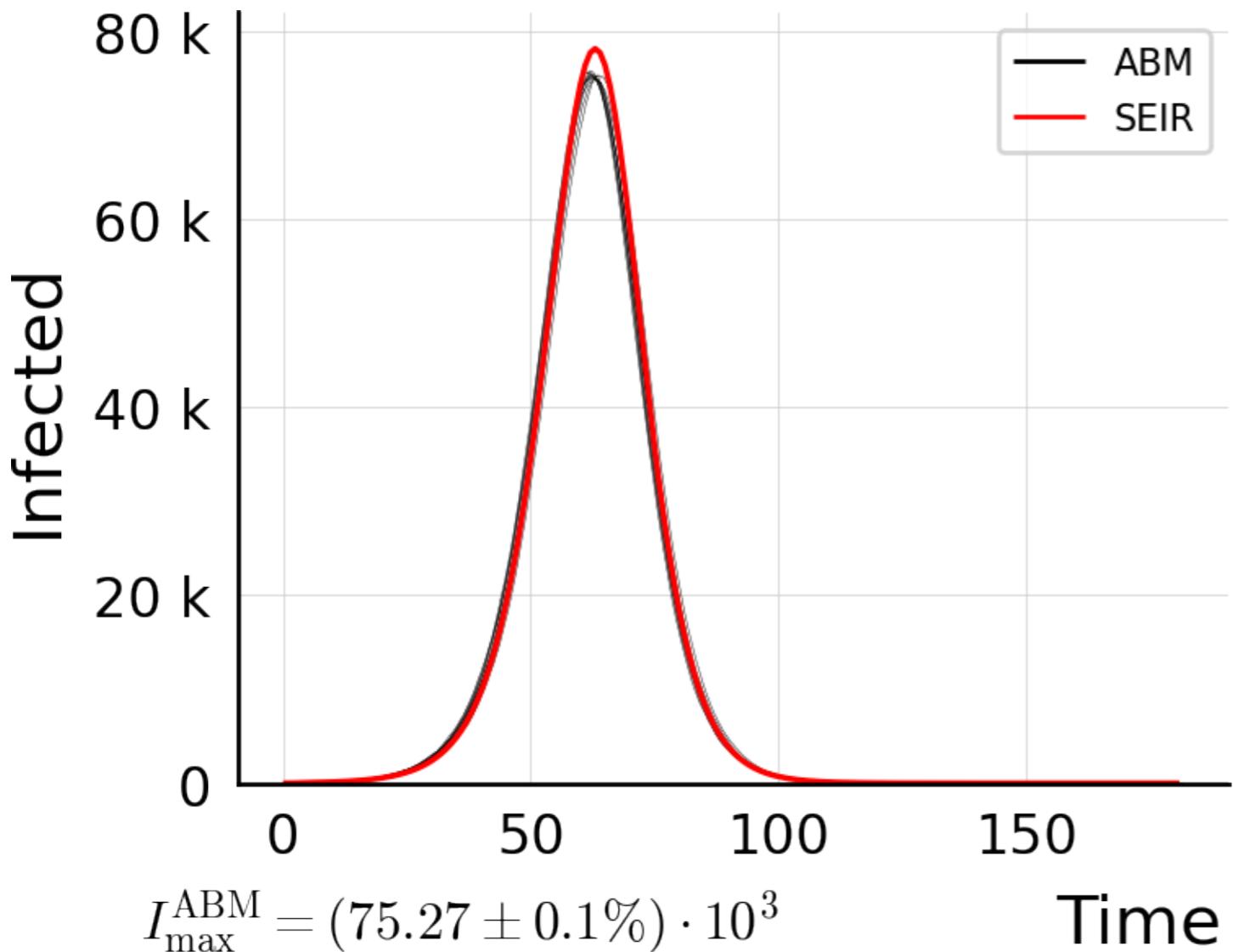
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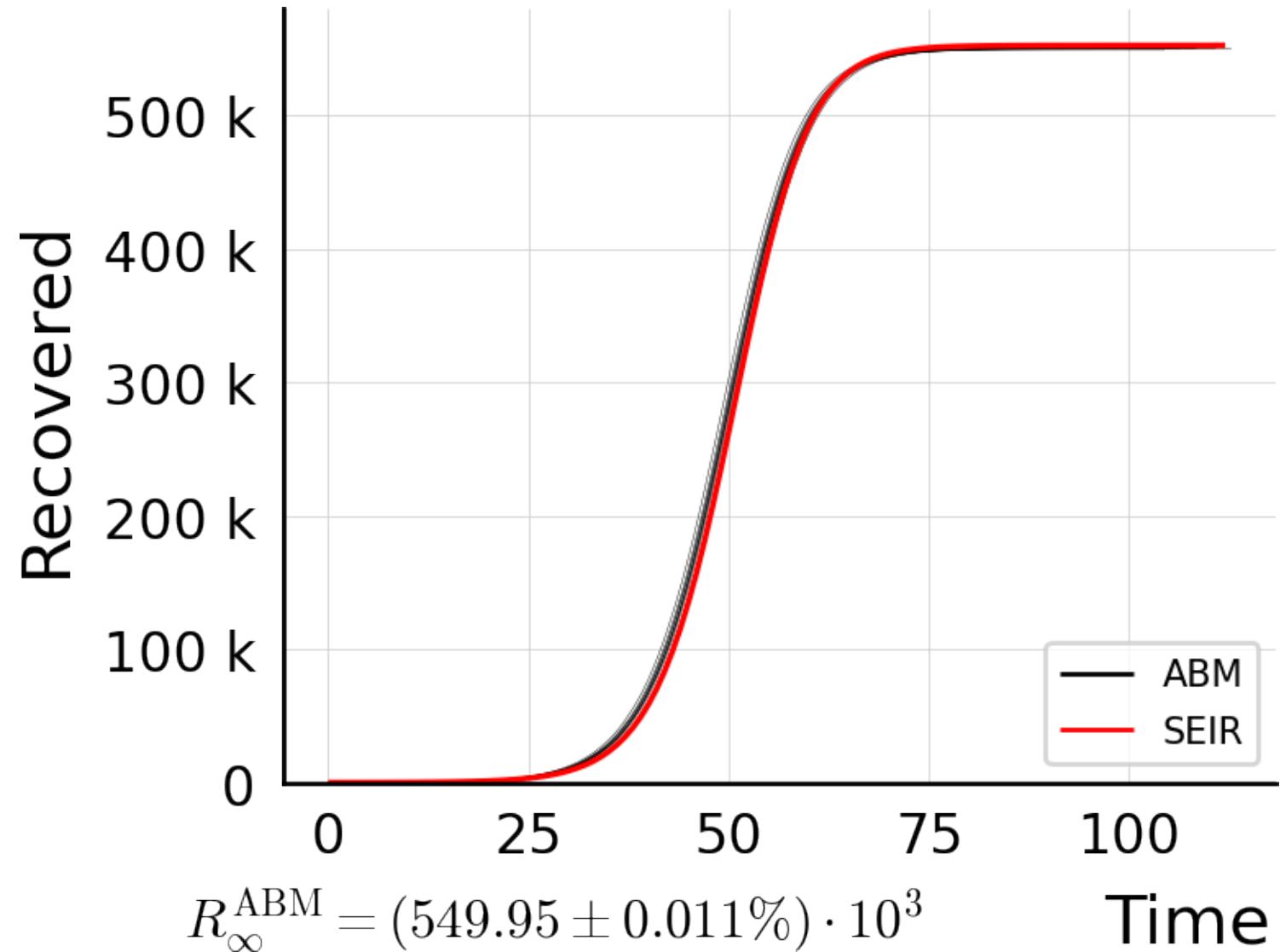
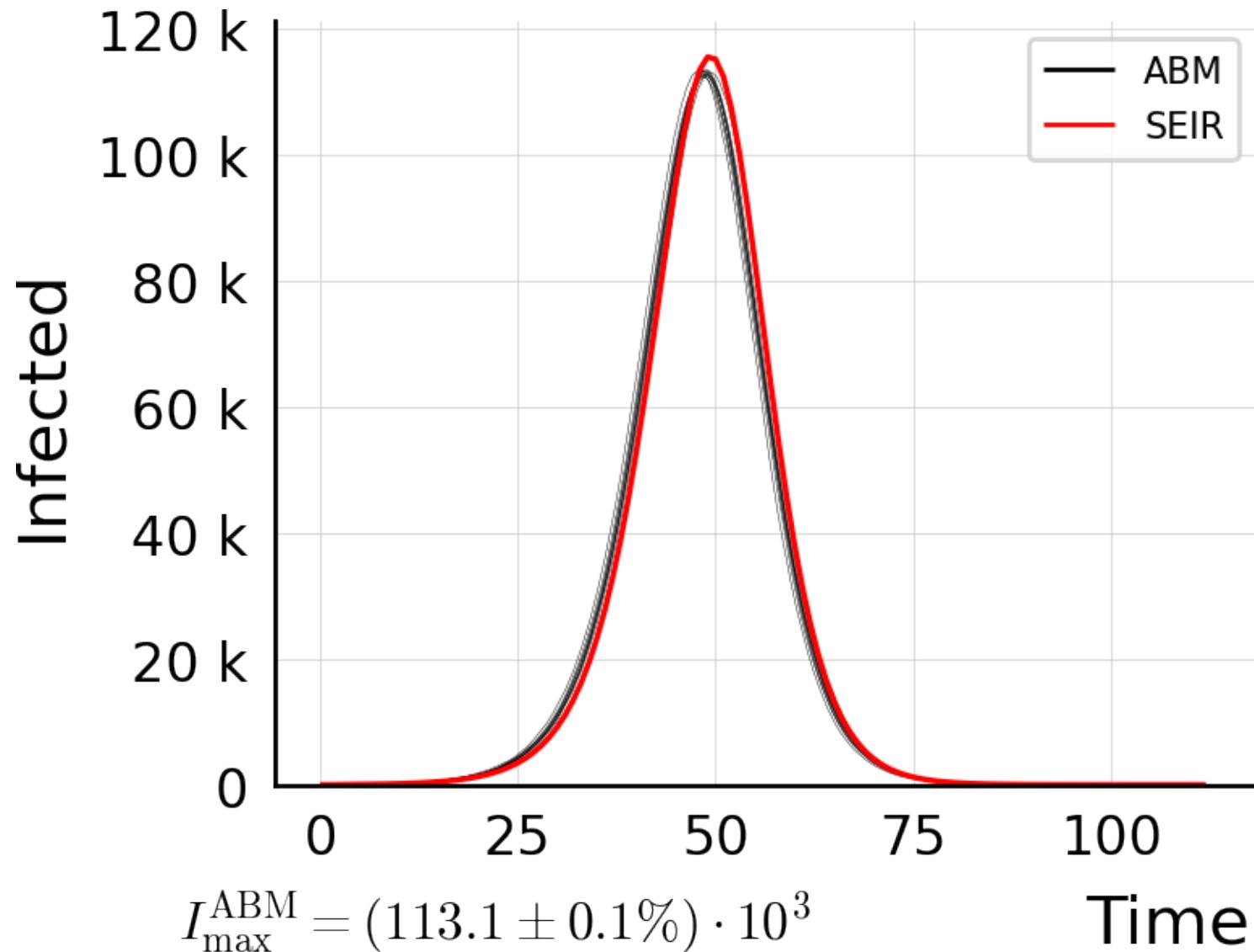
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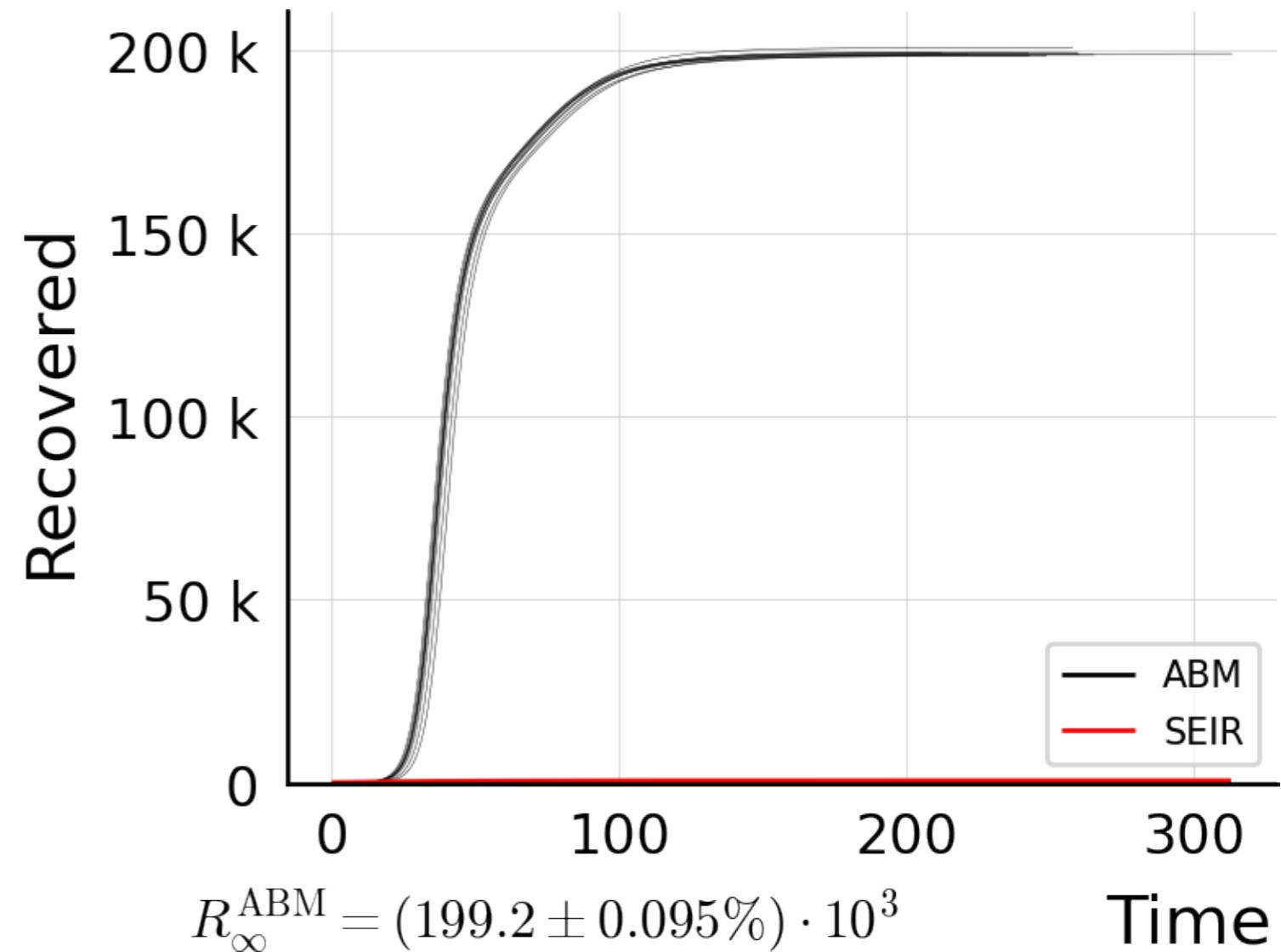
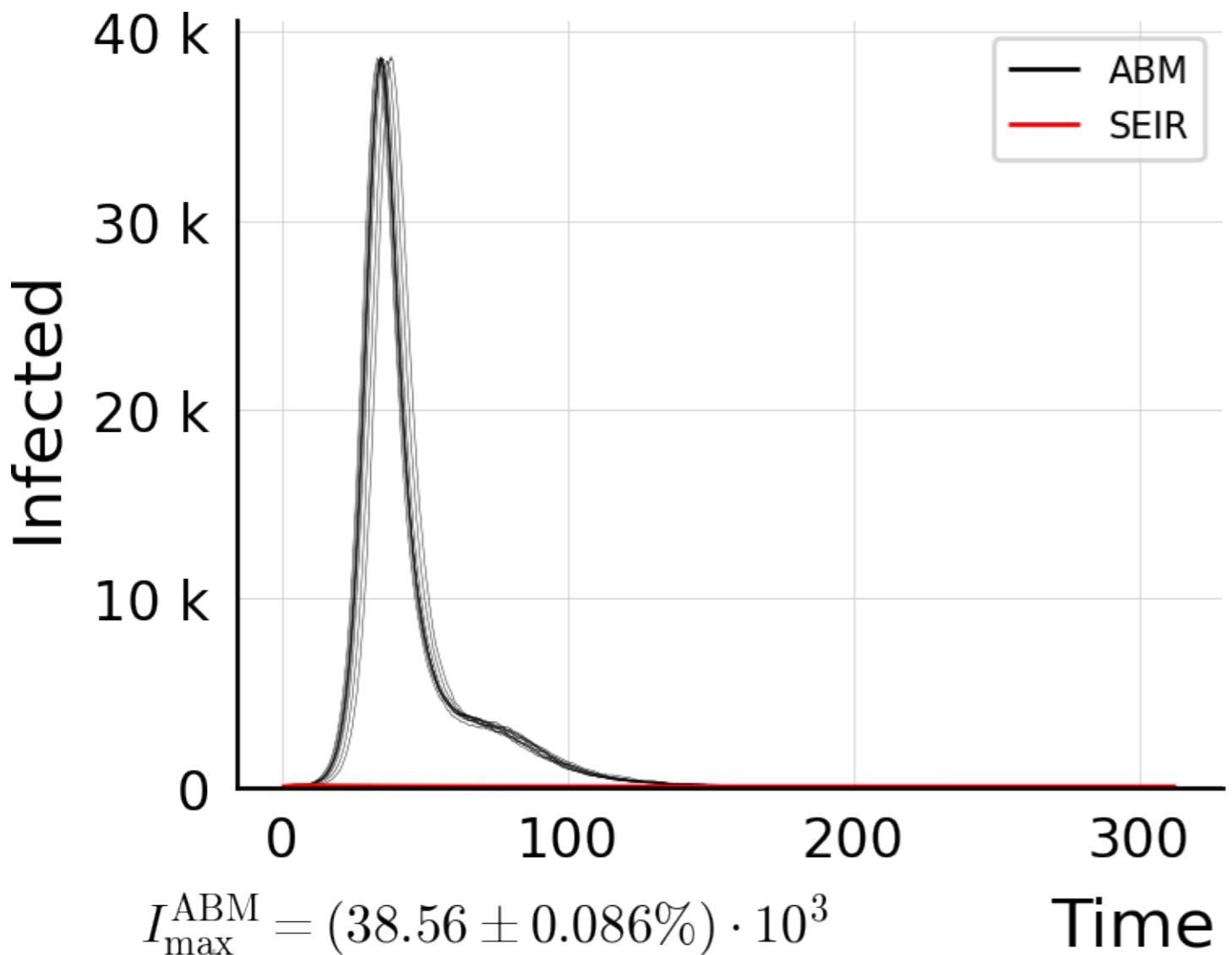
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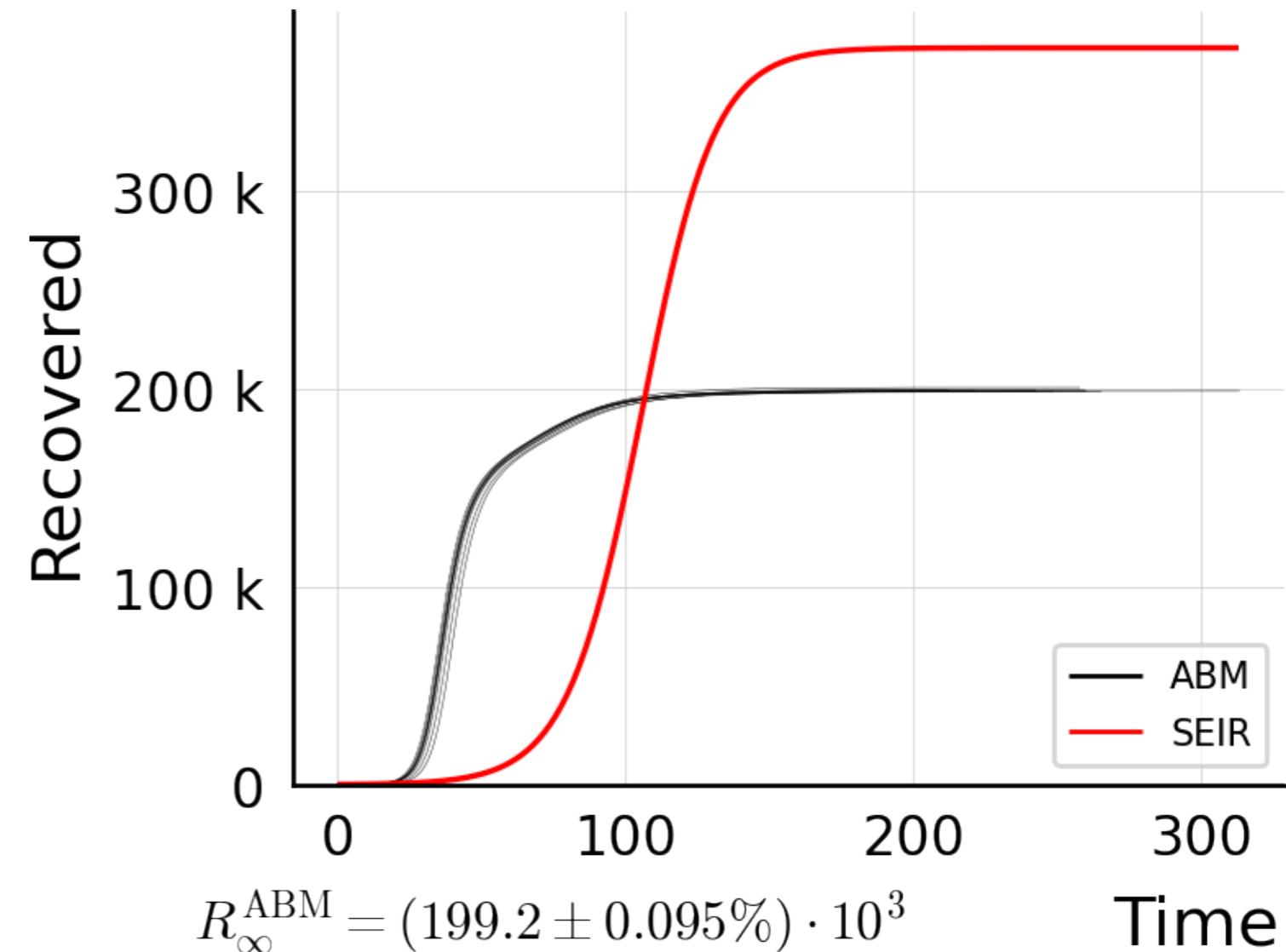
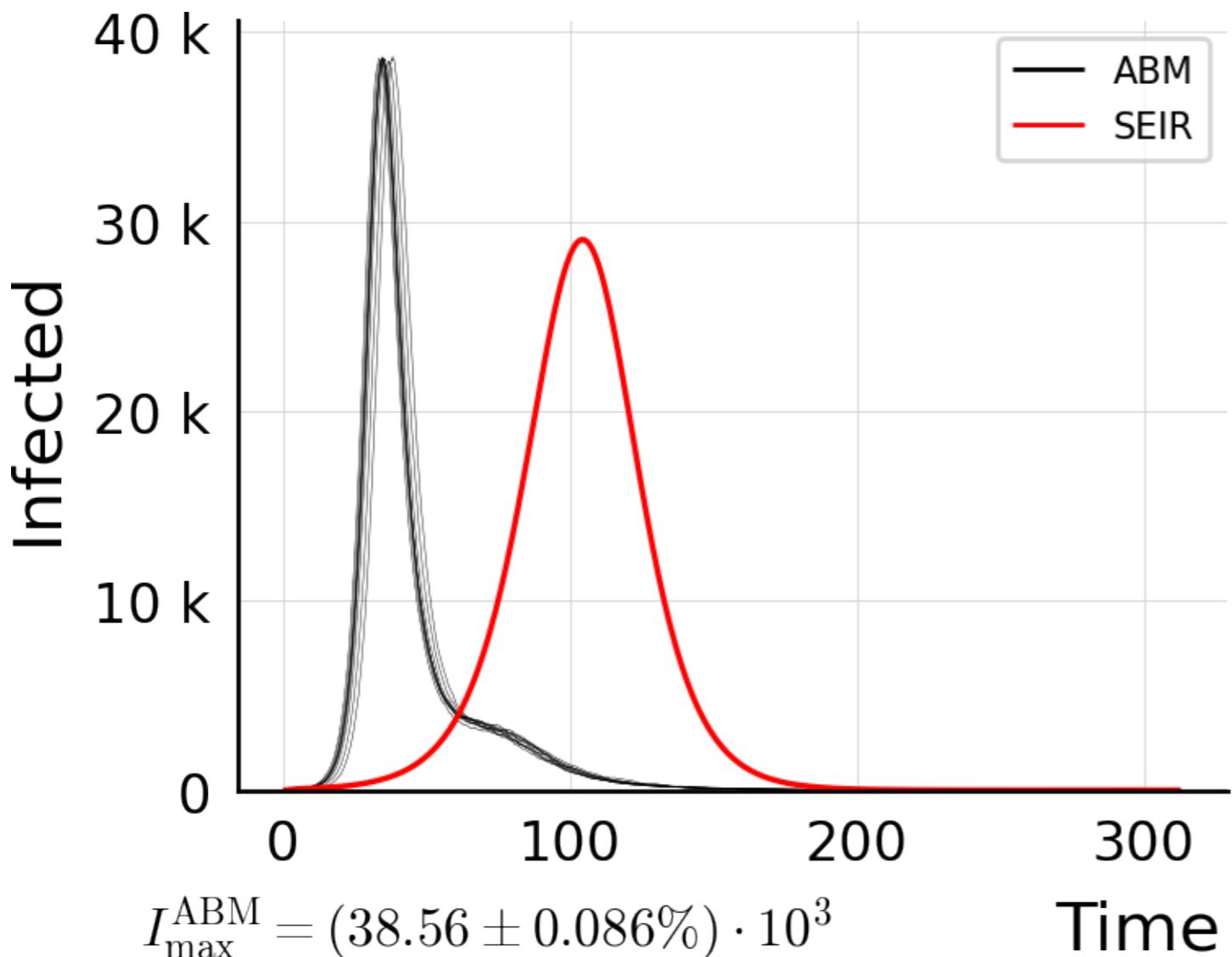
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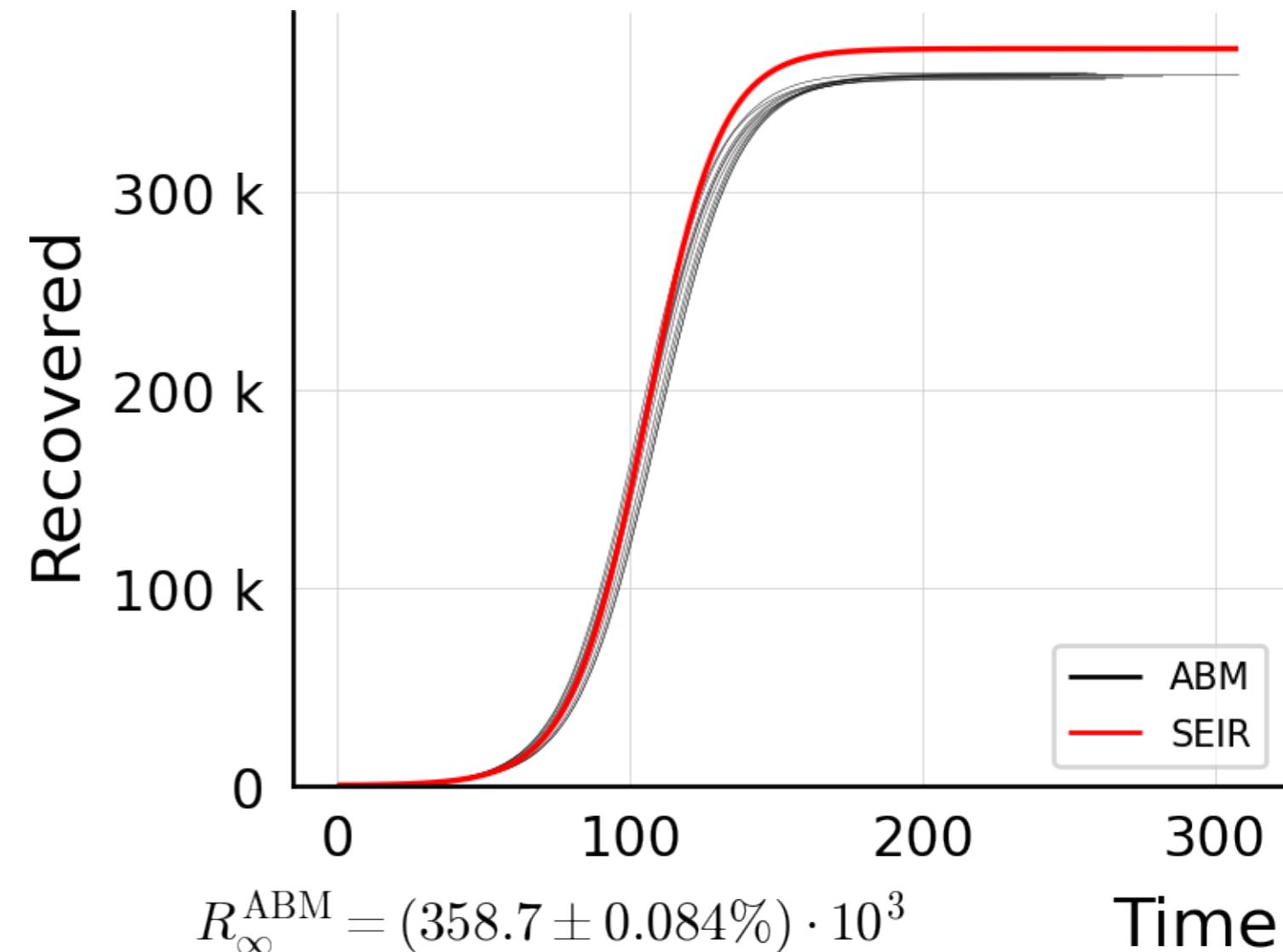
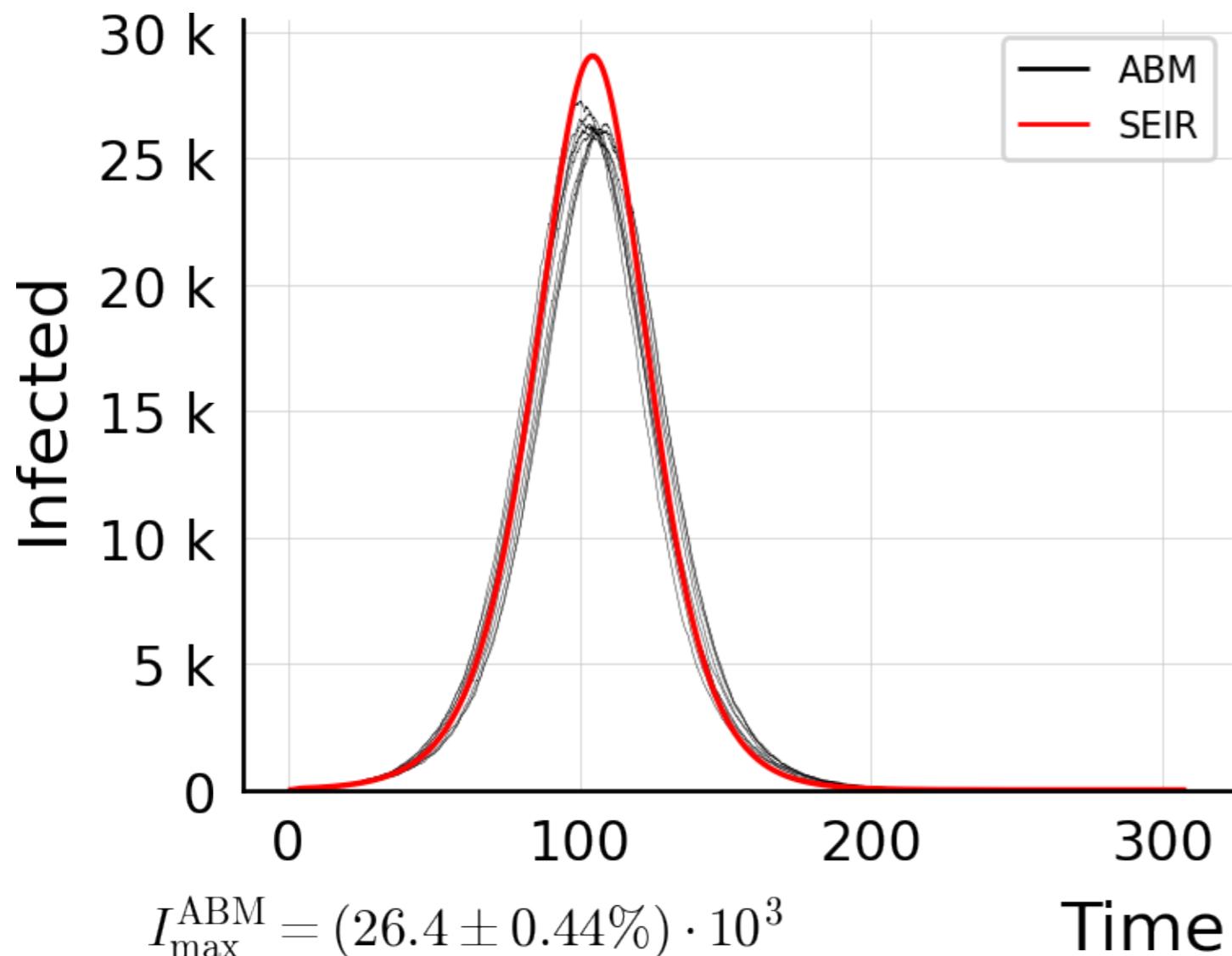
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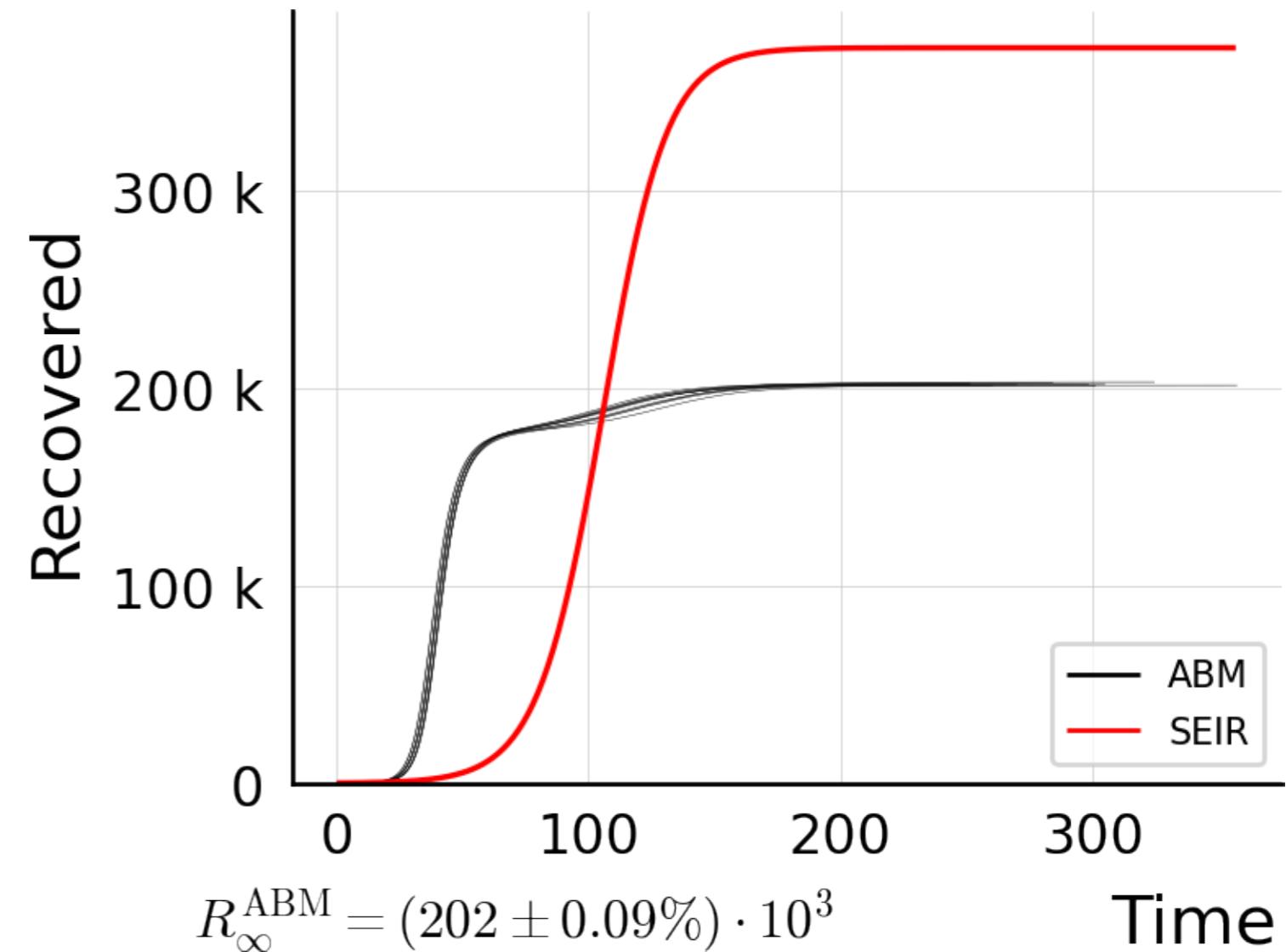
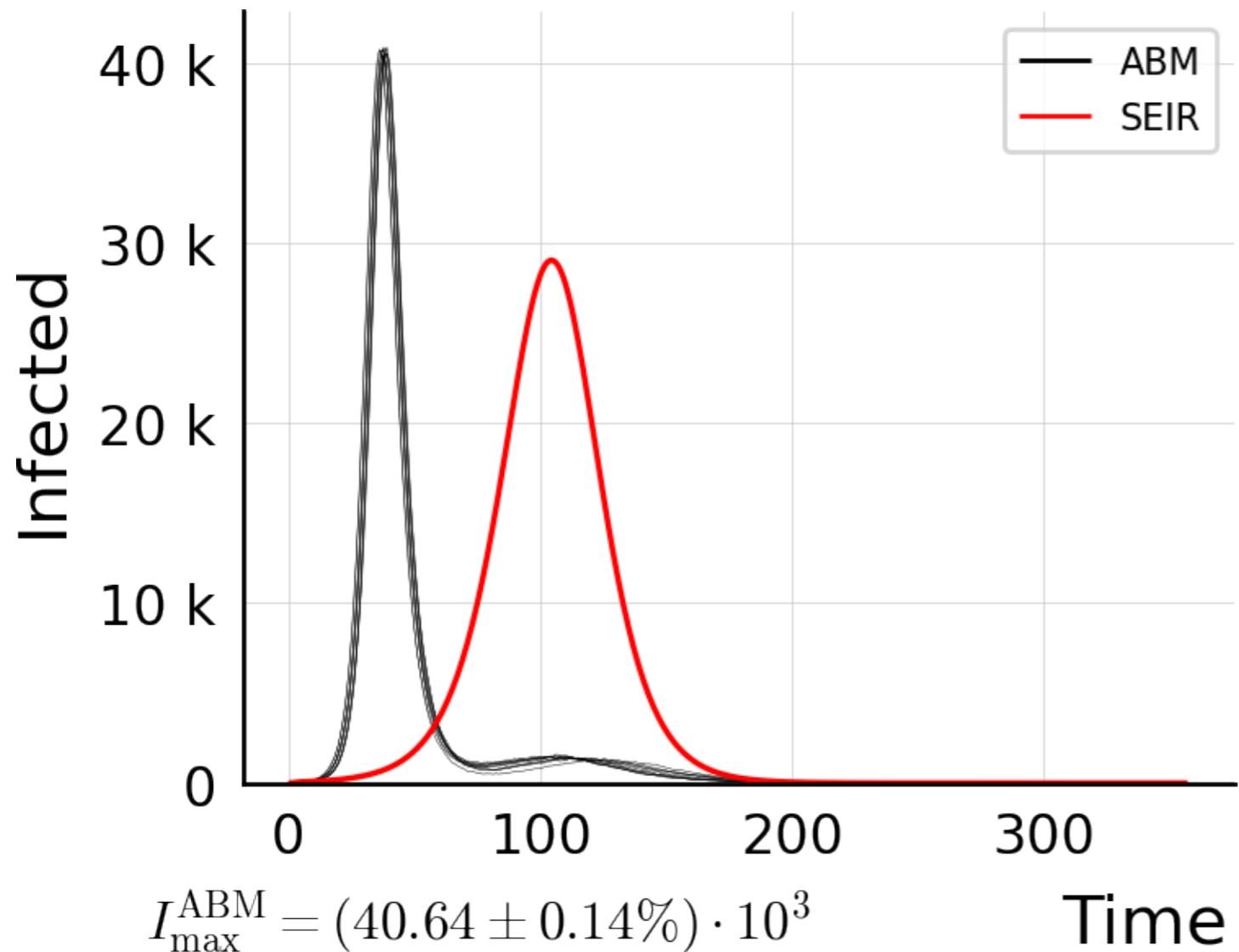
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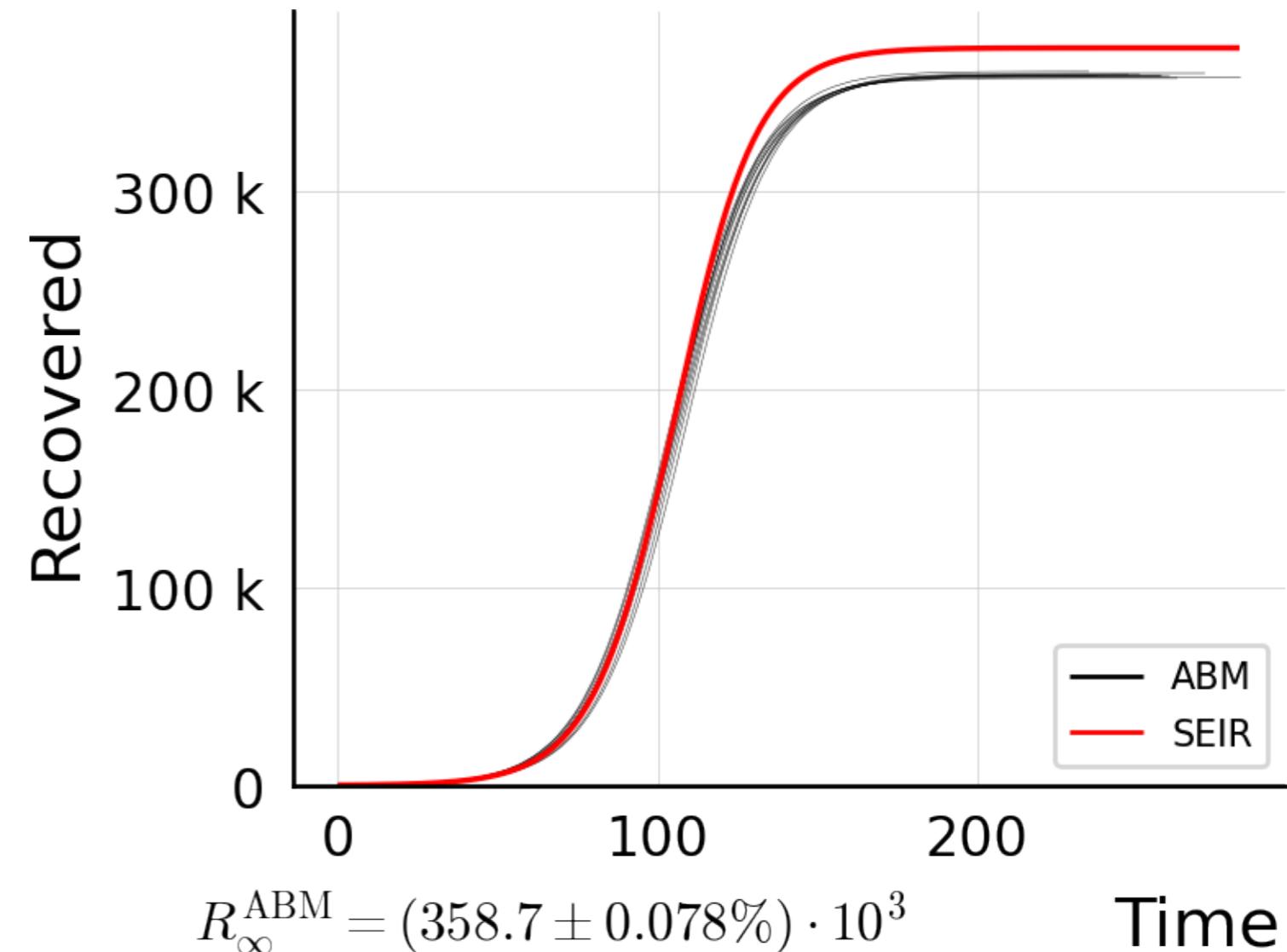
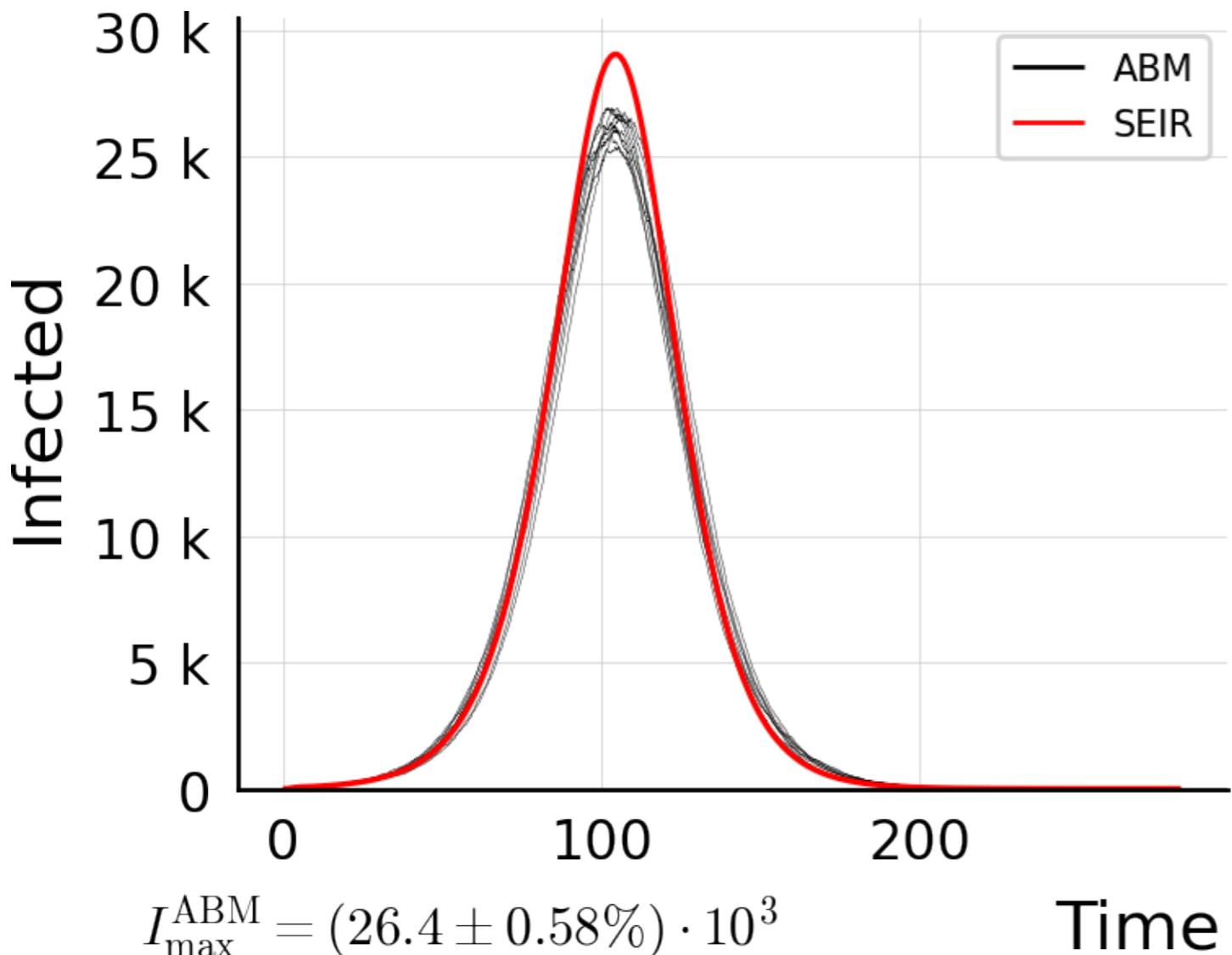
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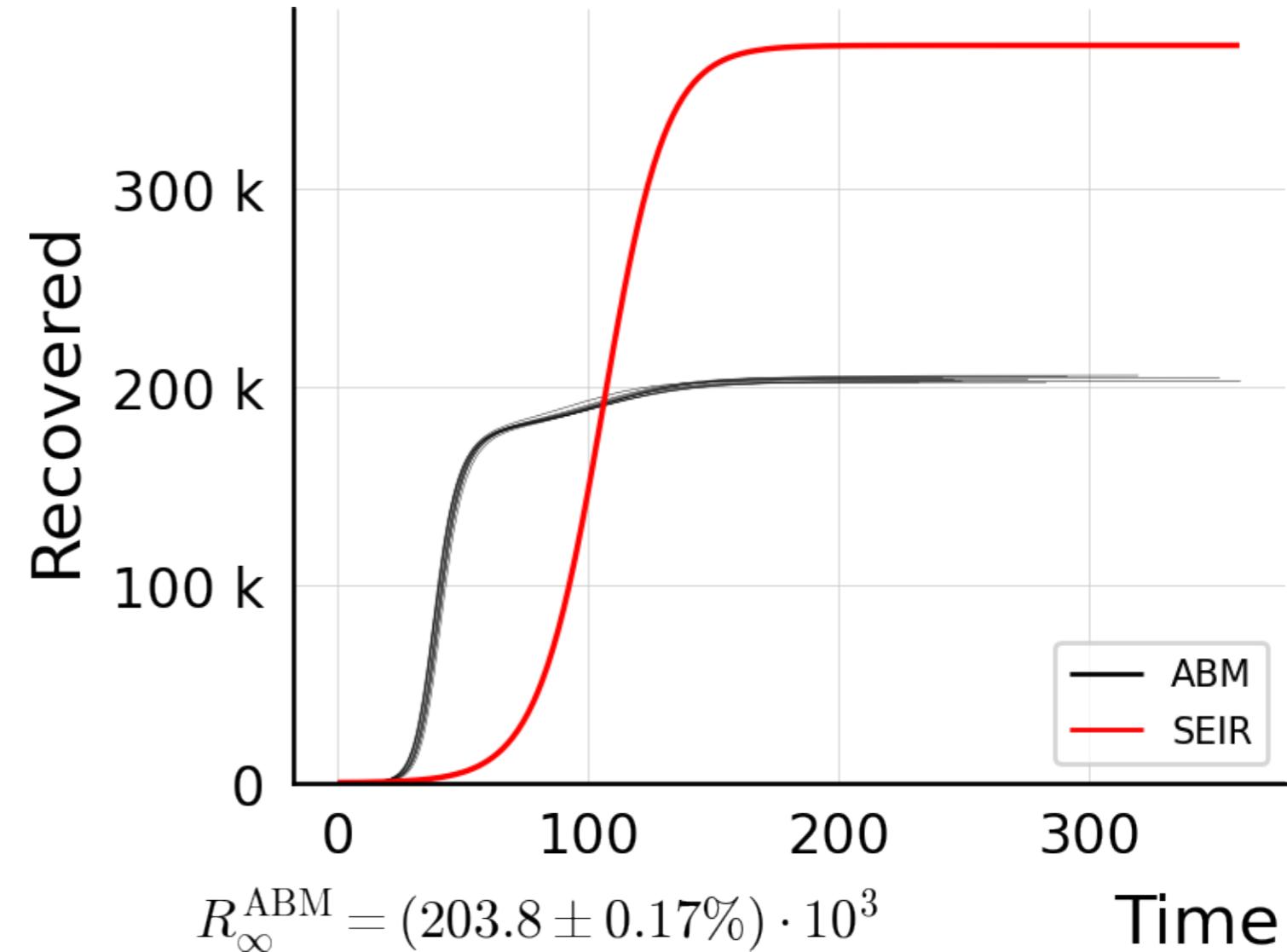
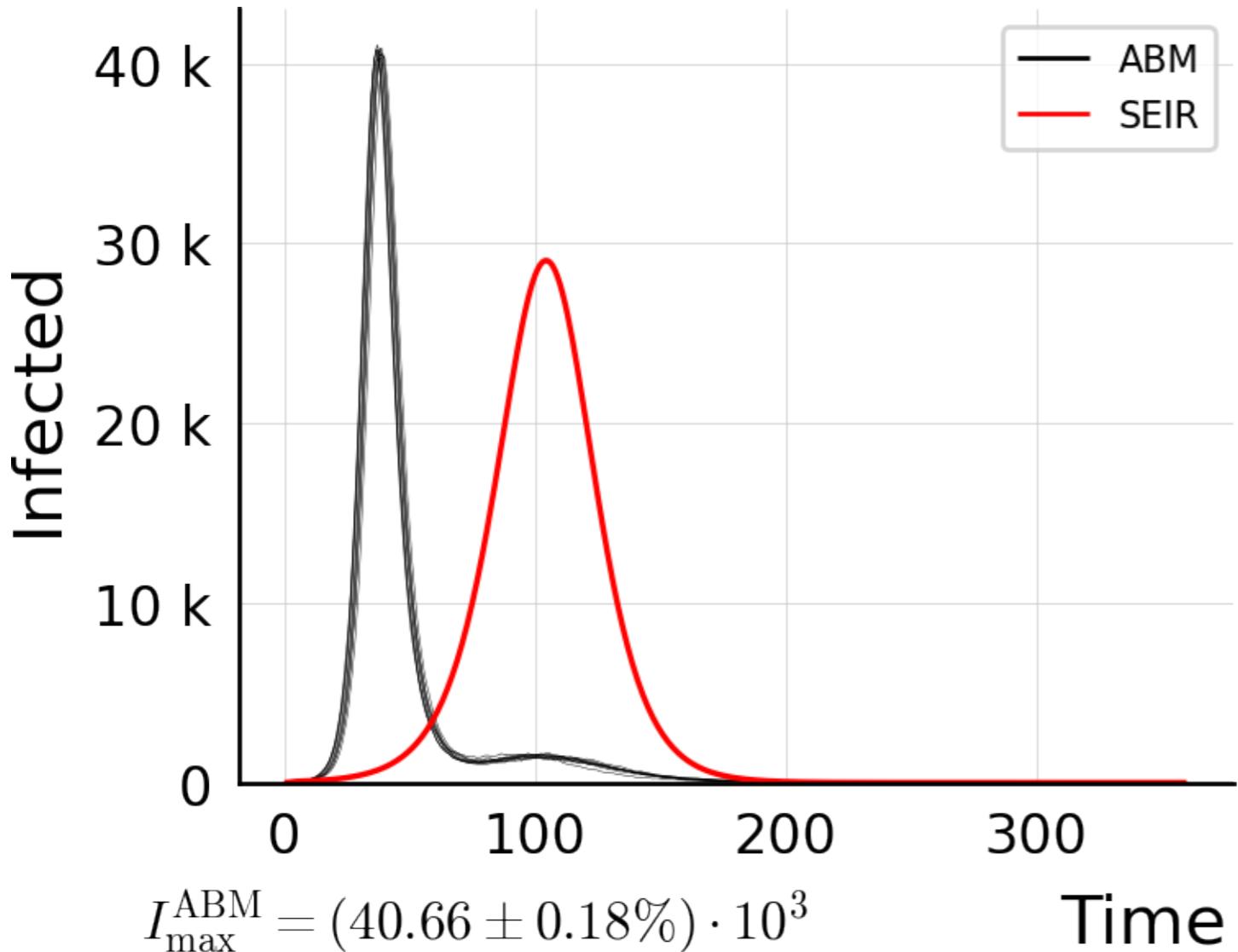
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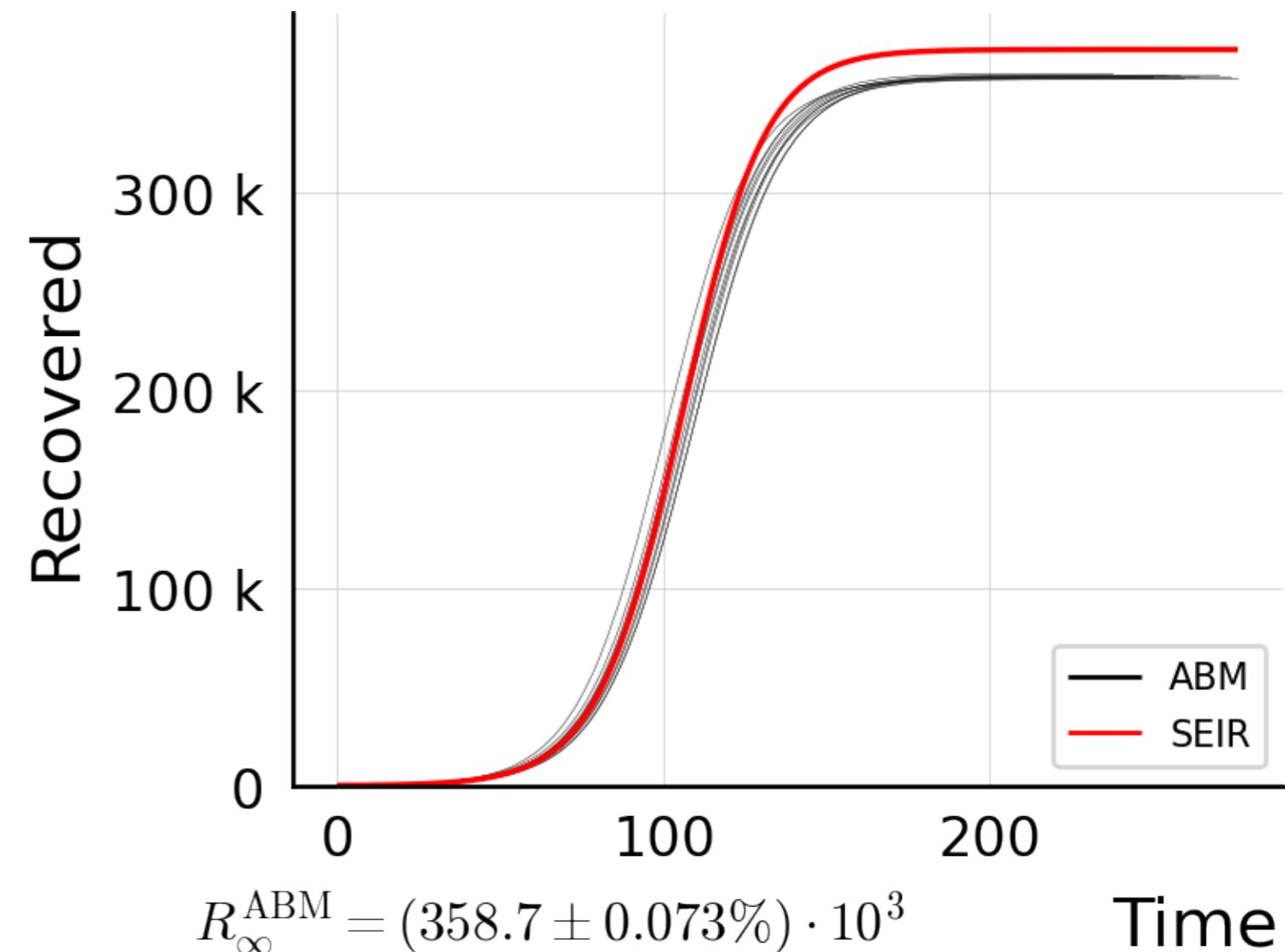
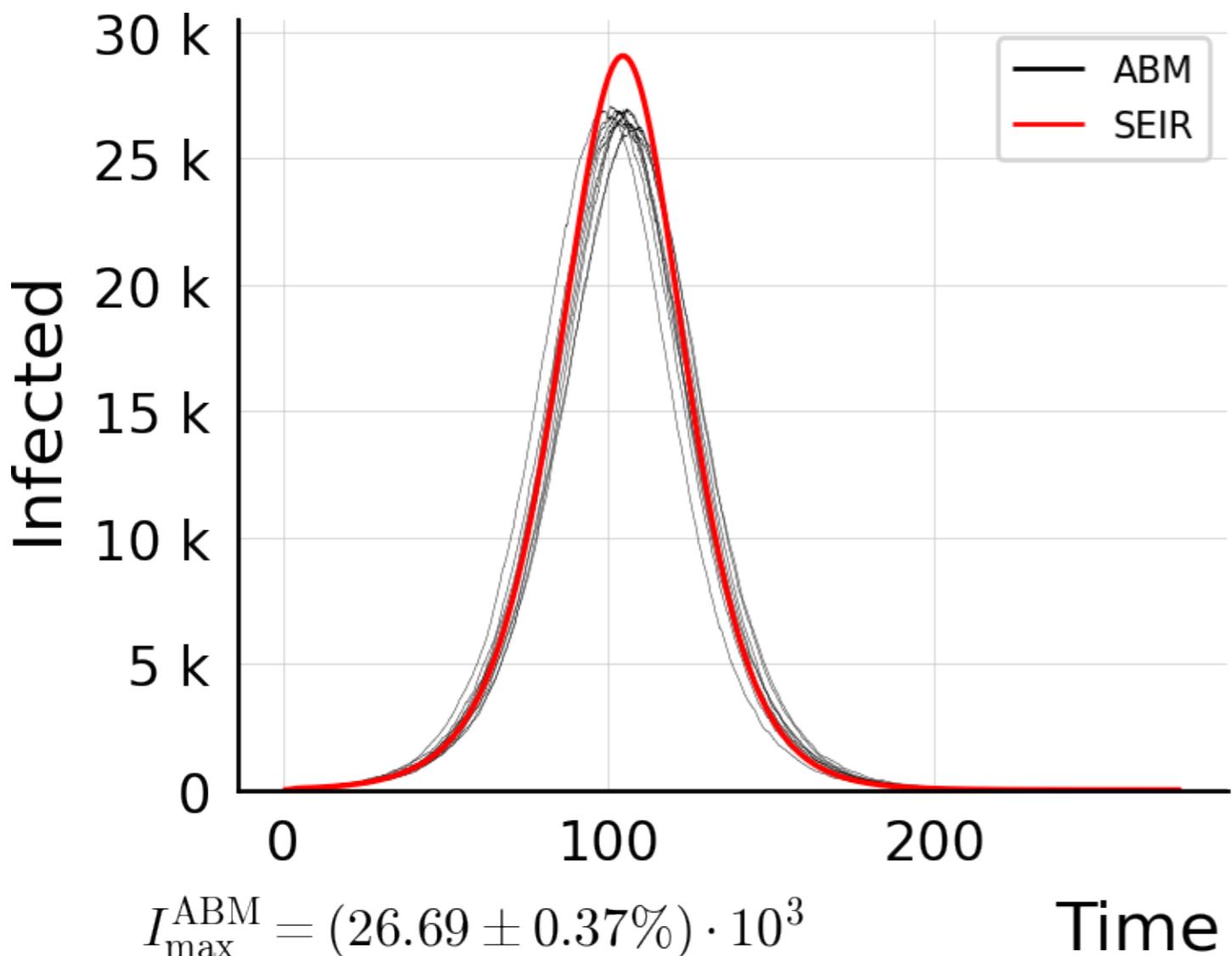
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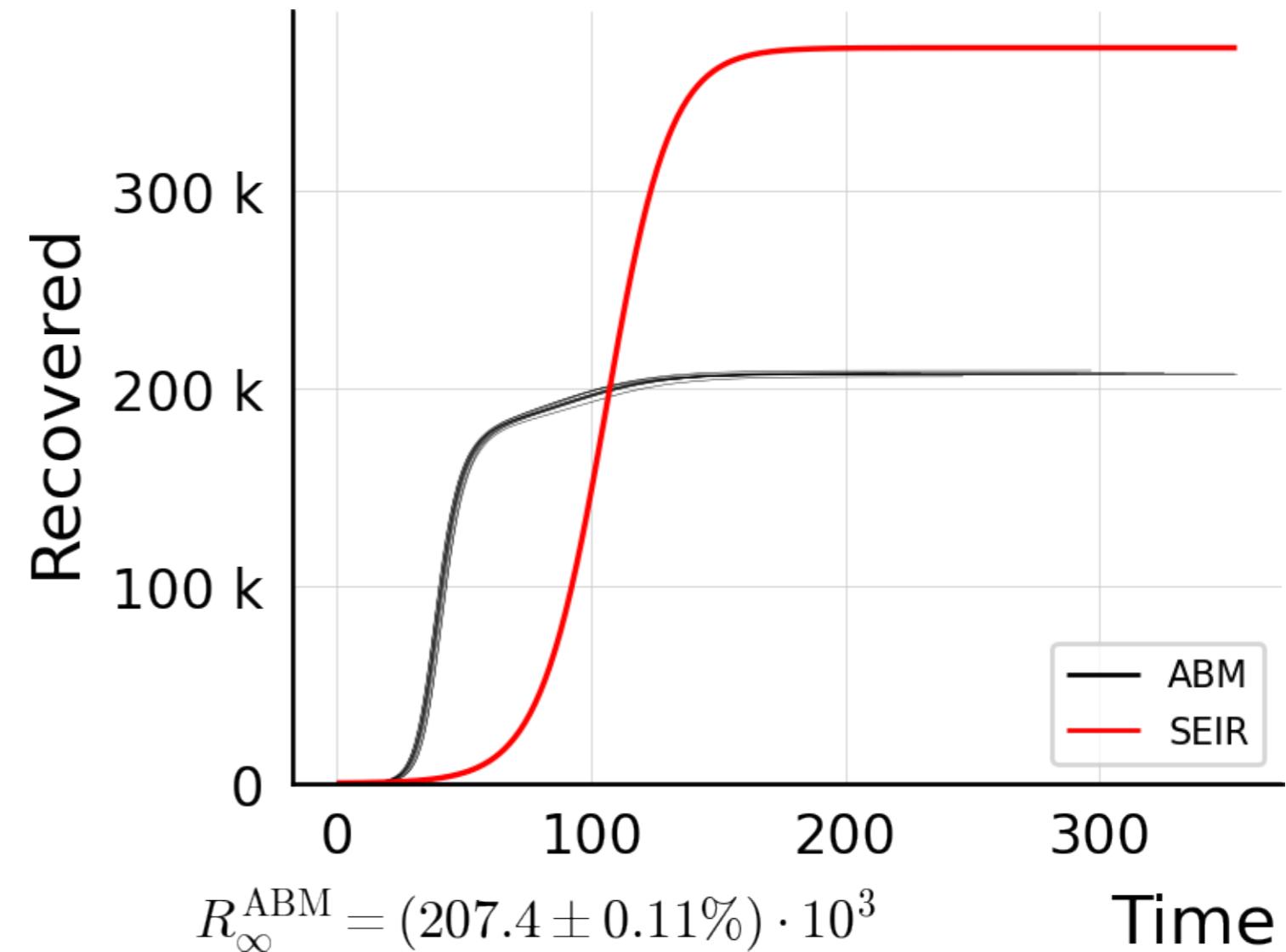
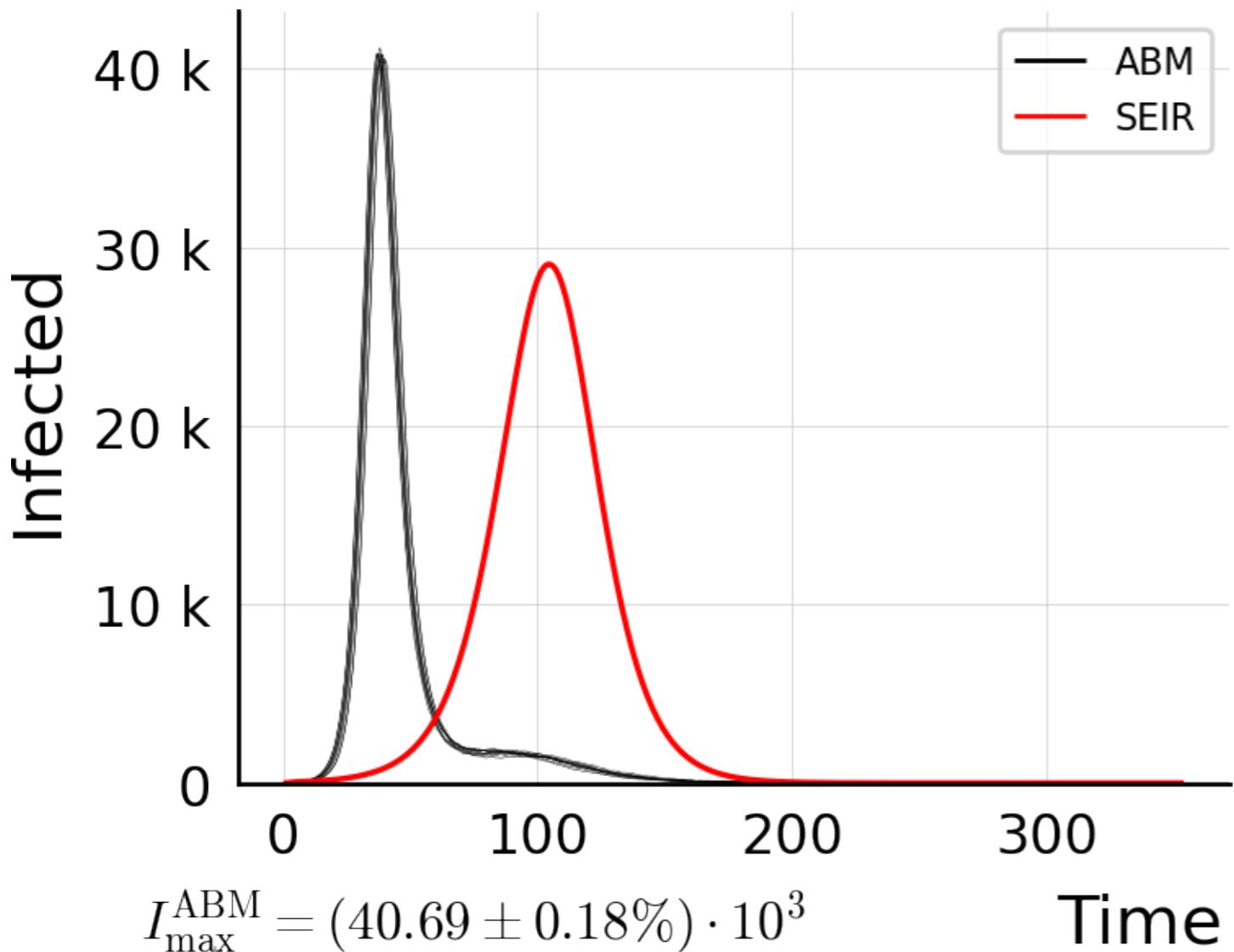
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



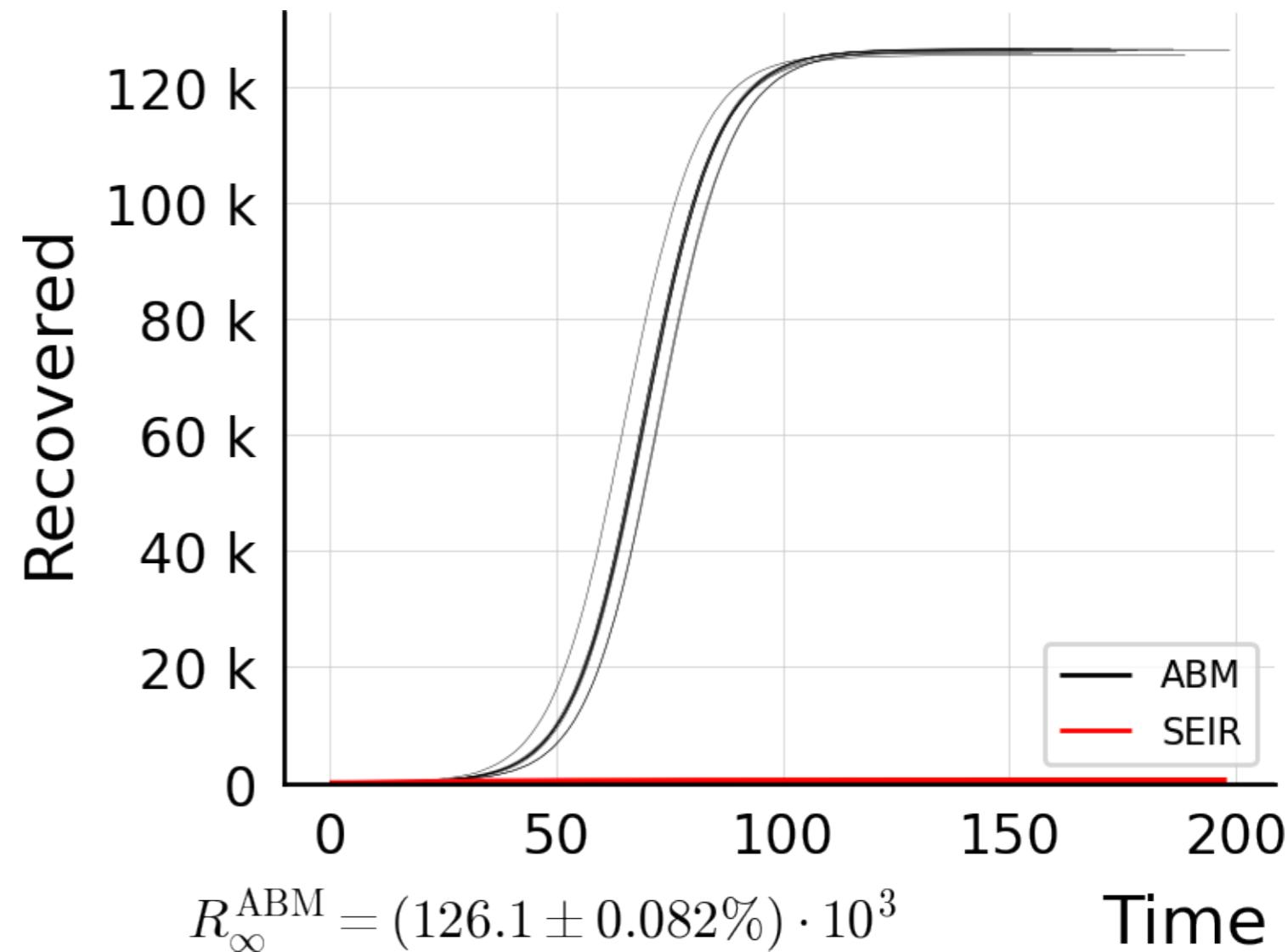
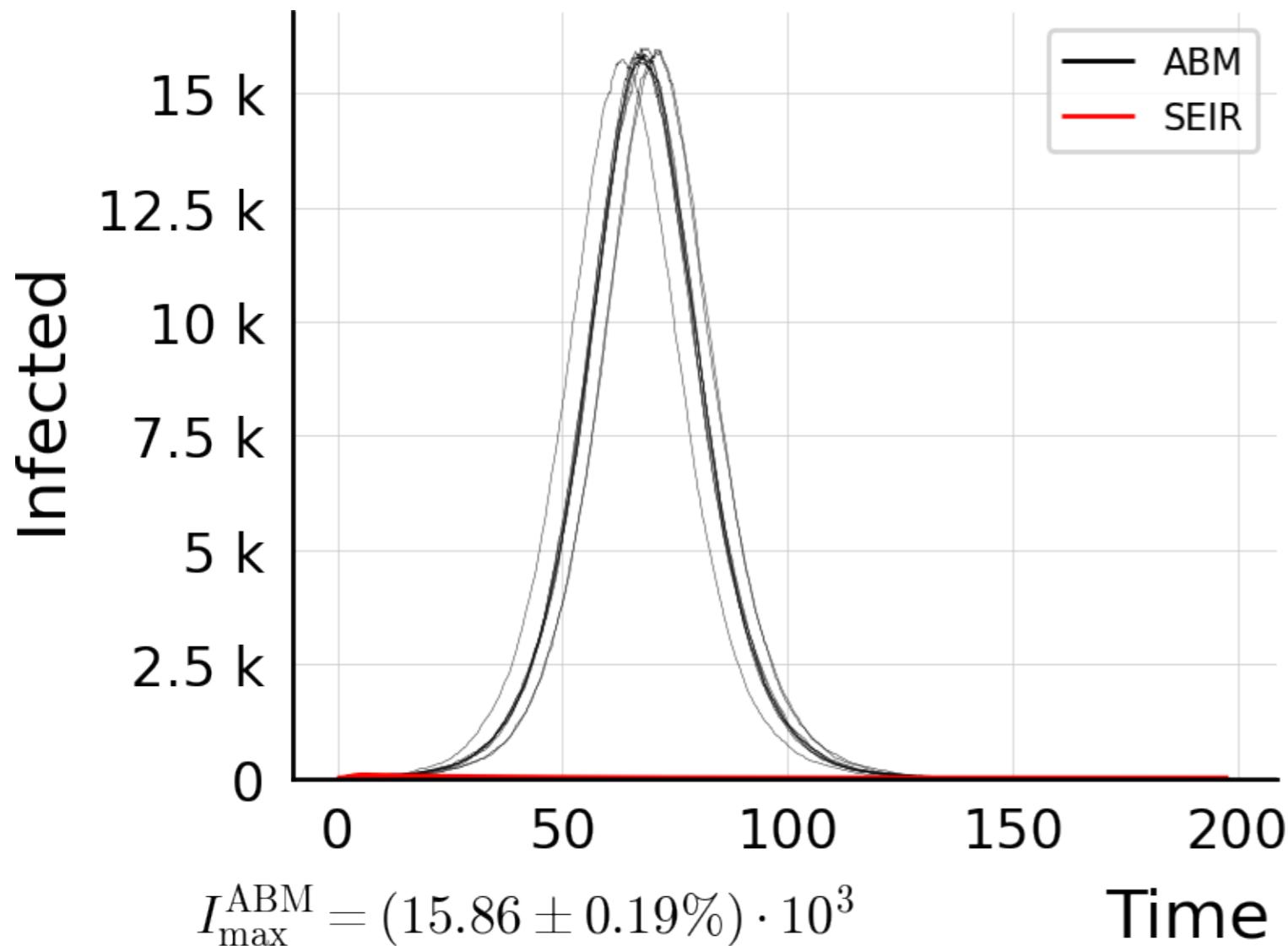
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.02$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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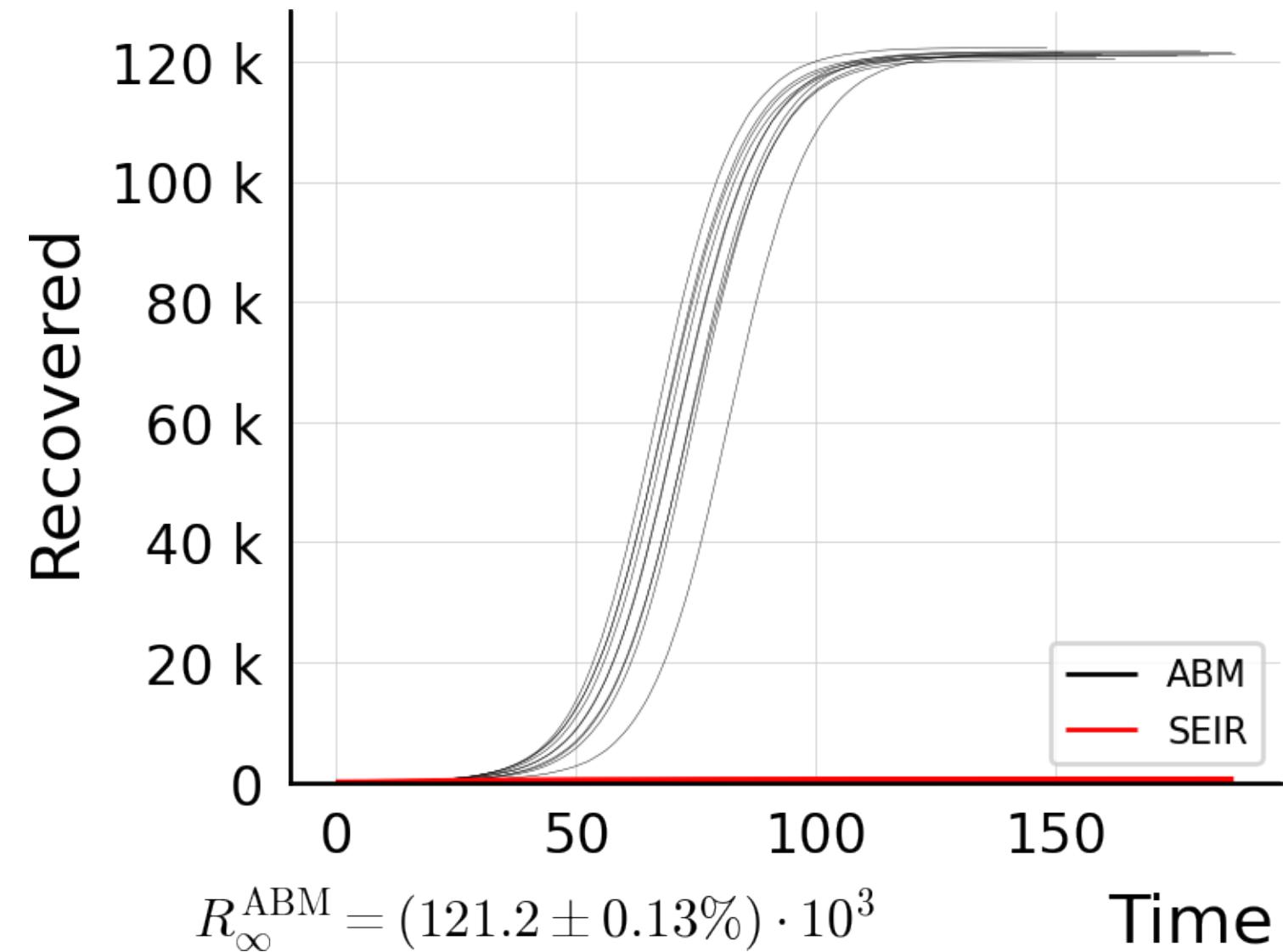
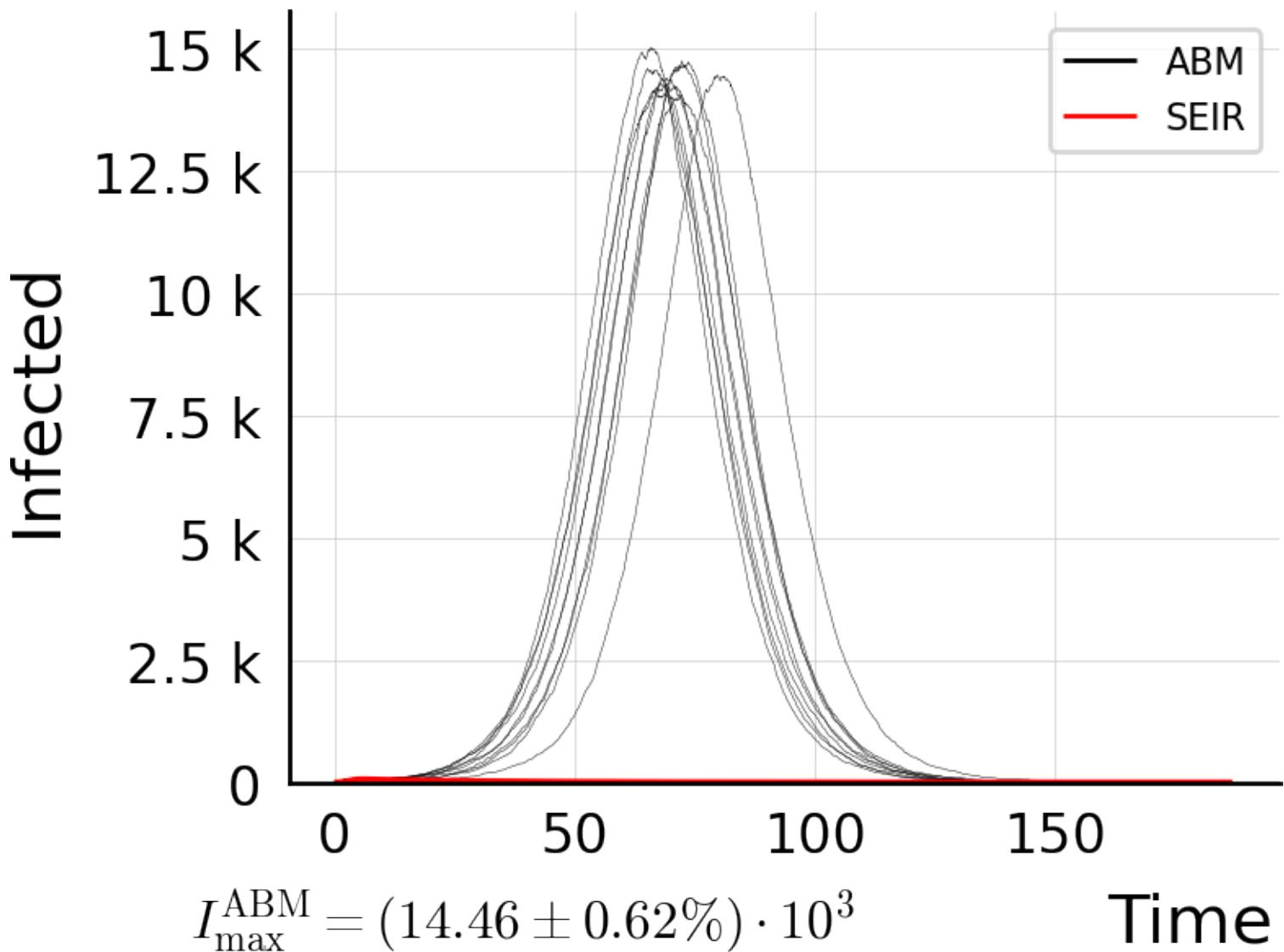
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.02$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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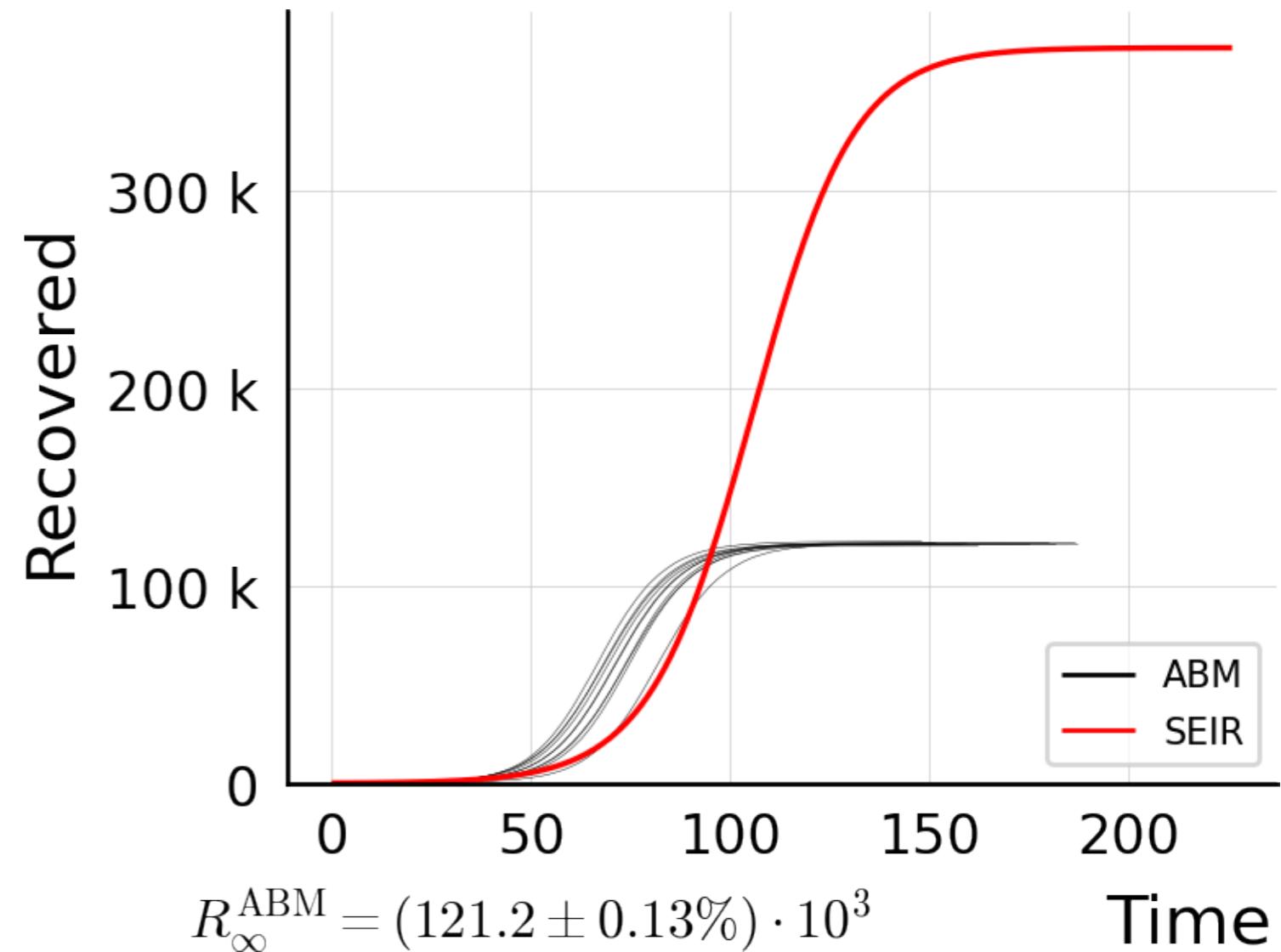
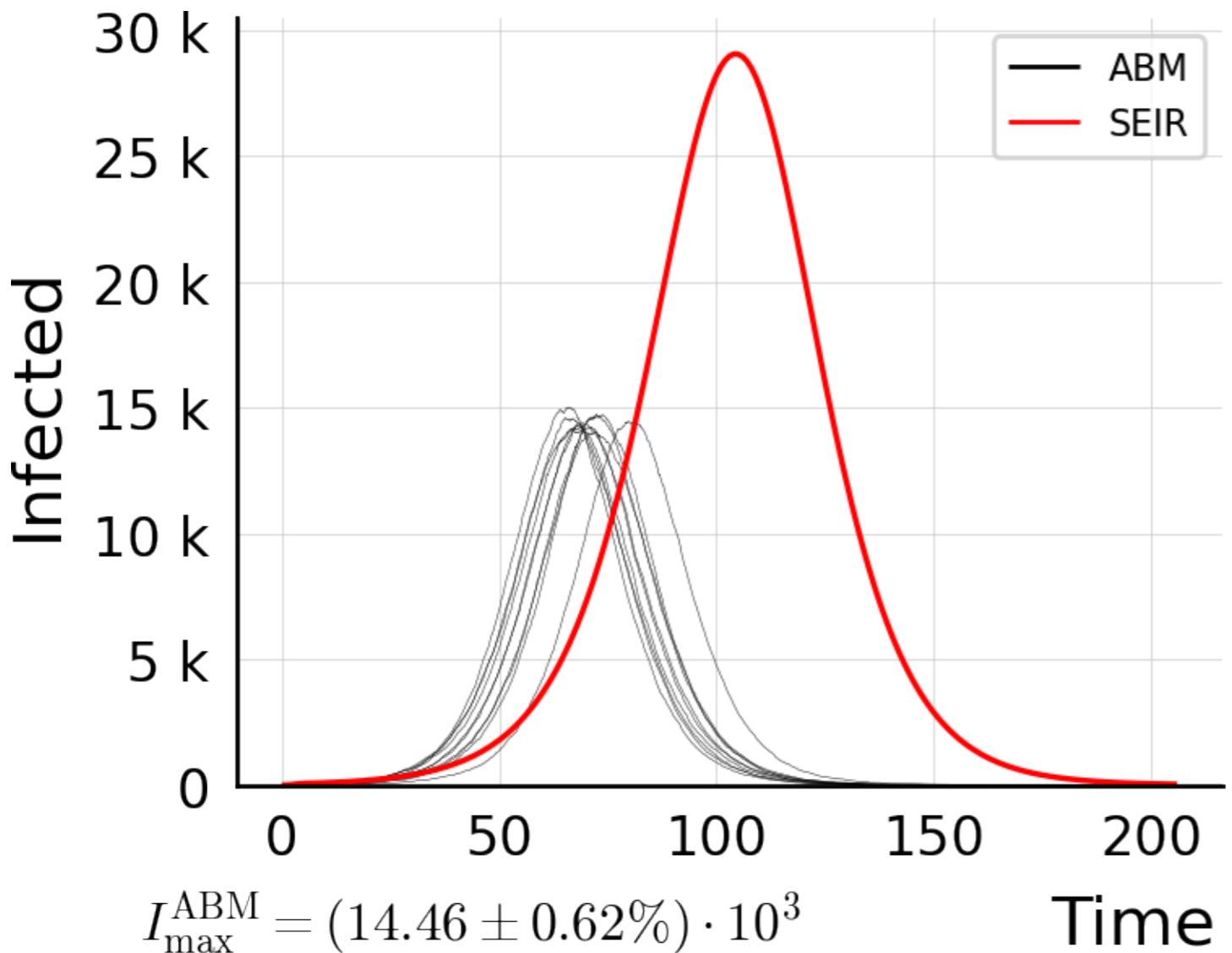
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 0.0$, $\beta = 0.02$, $\sigma_\beta = 0.0$
 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



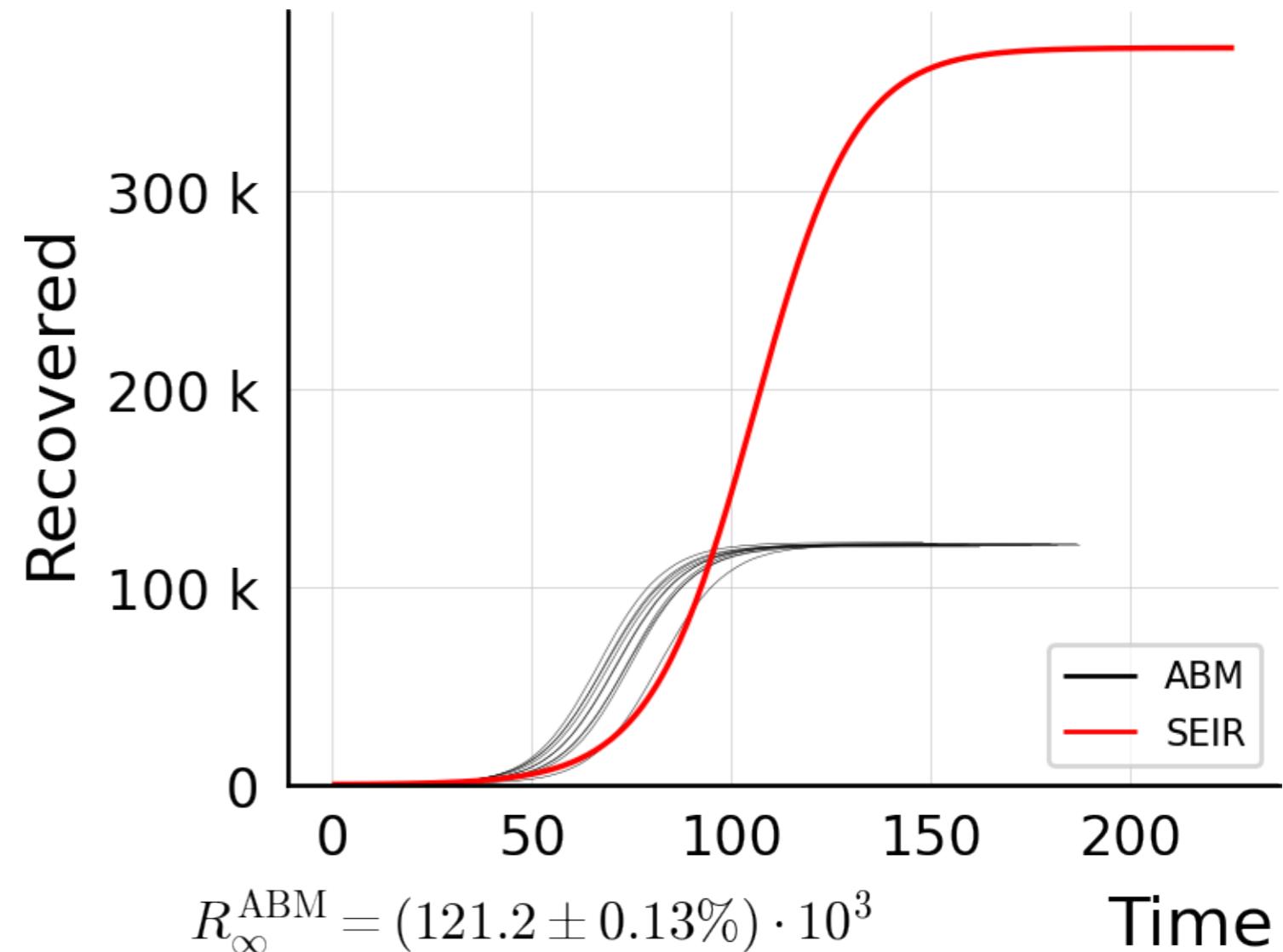
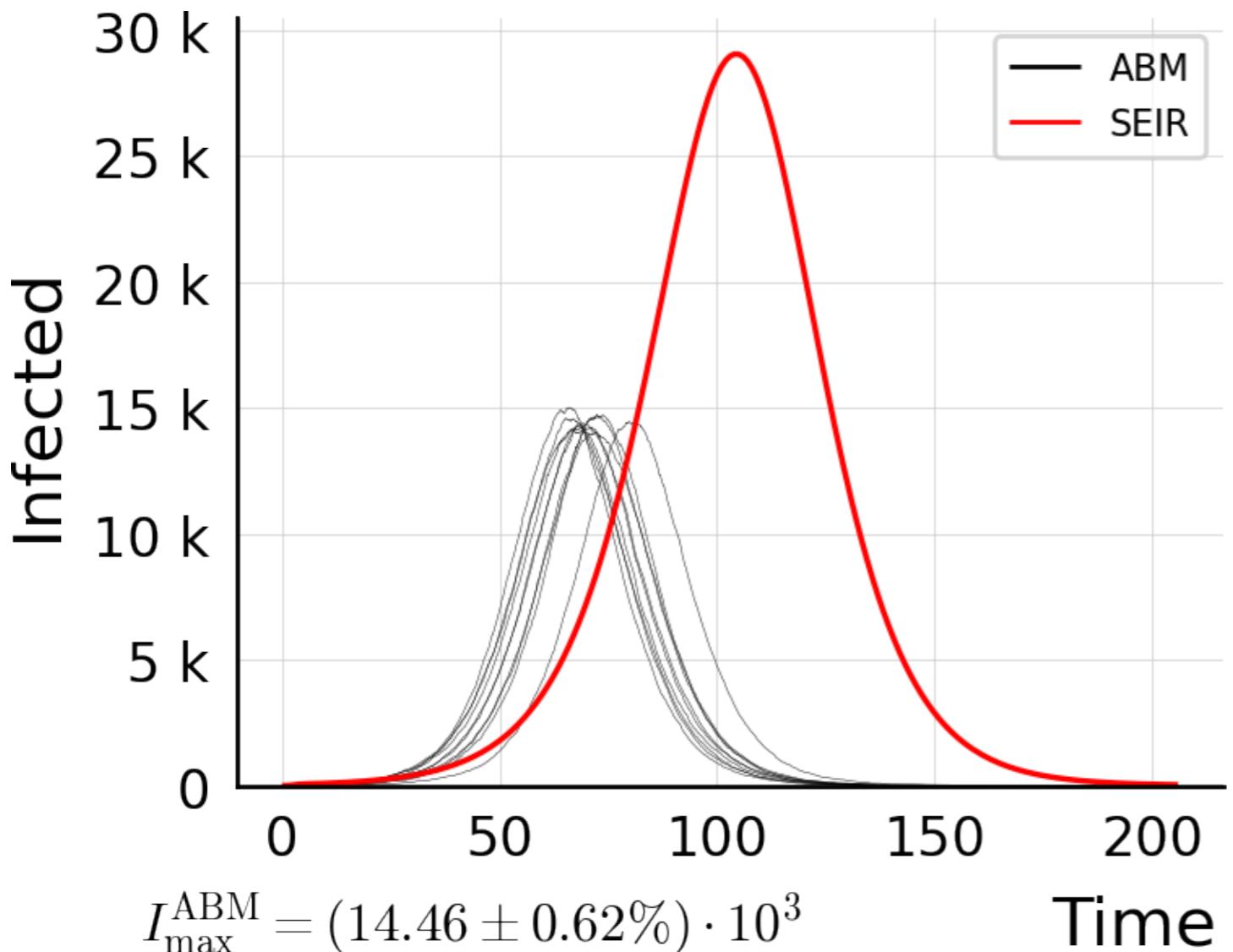
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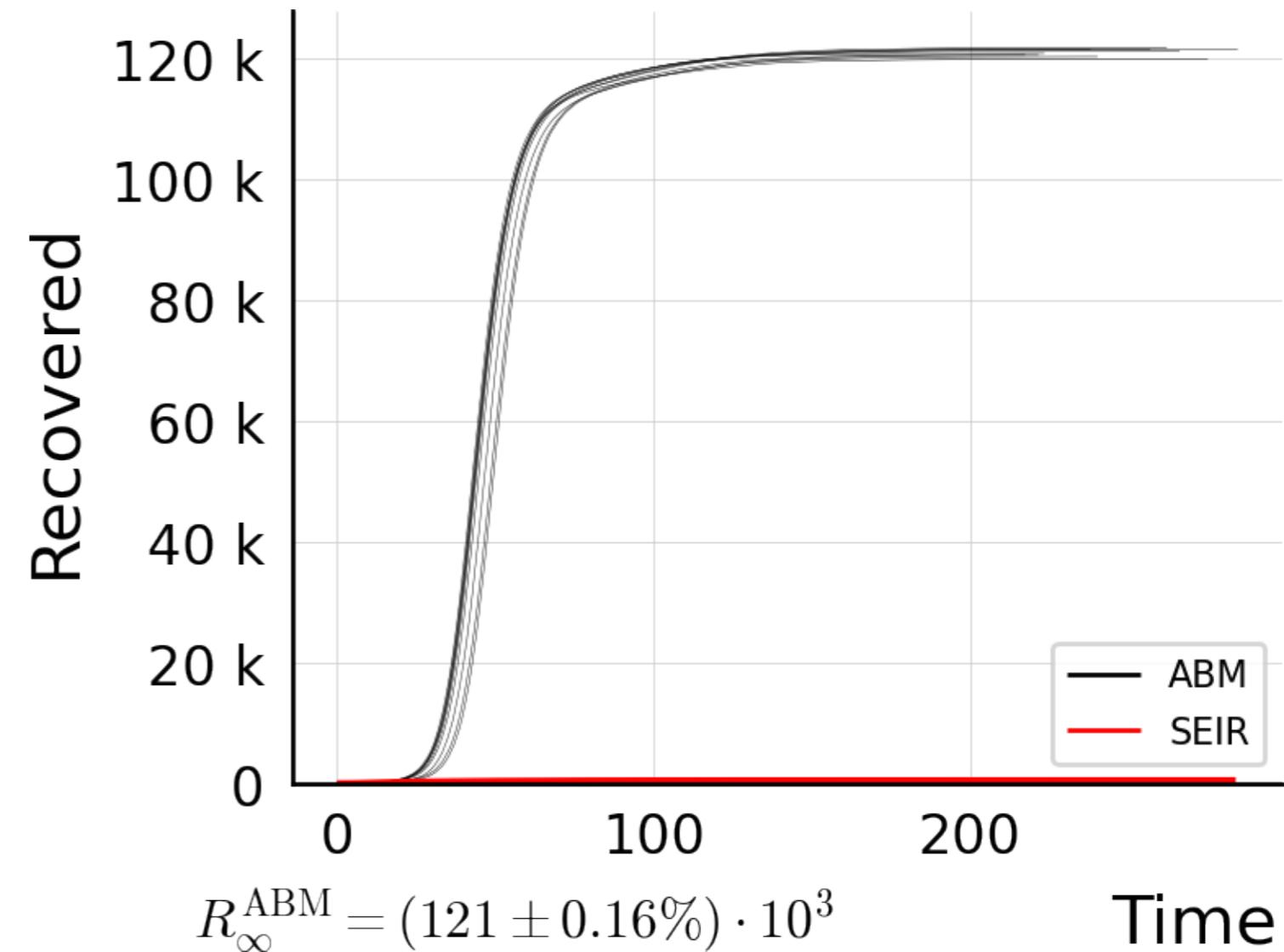
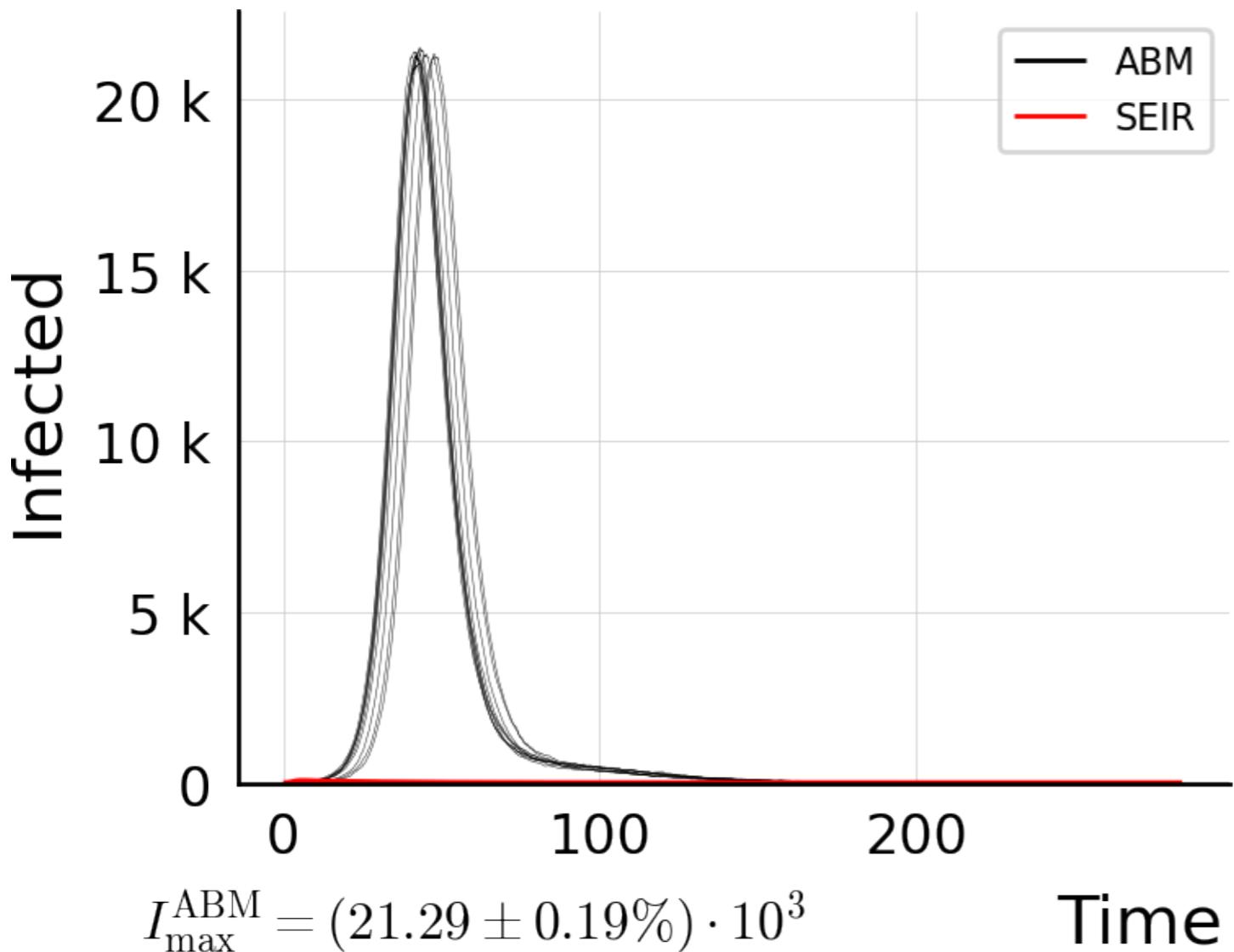
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



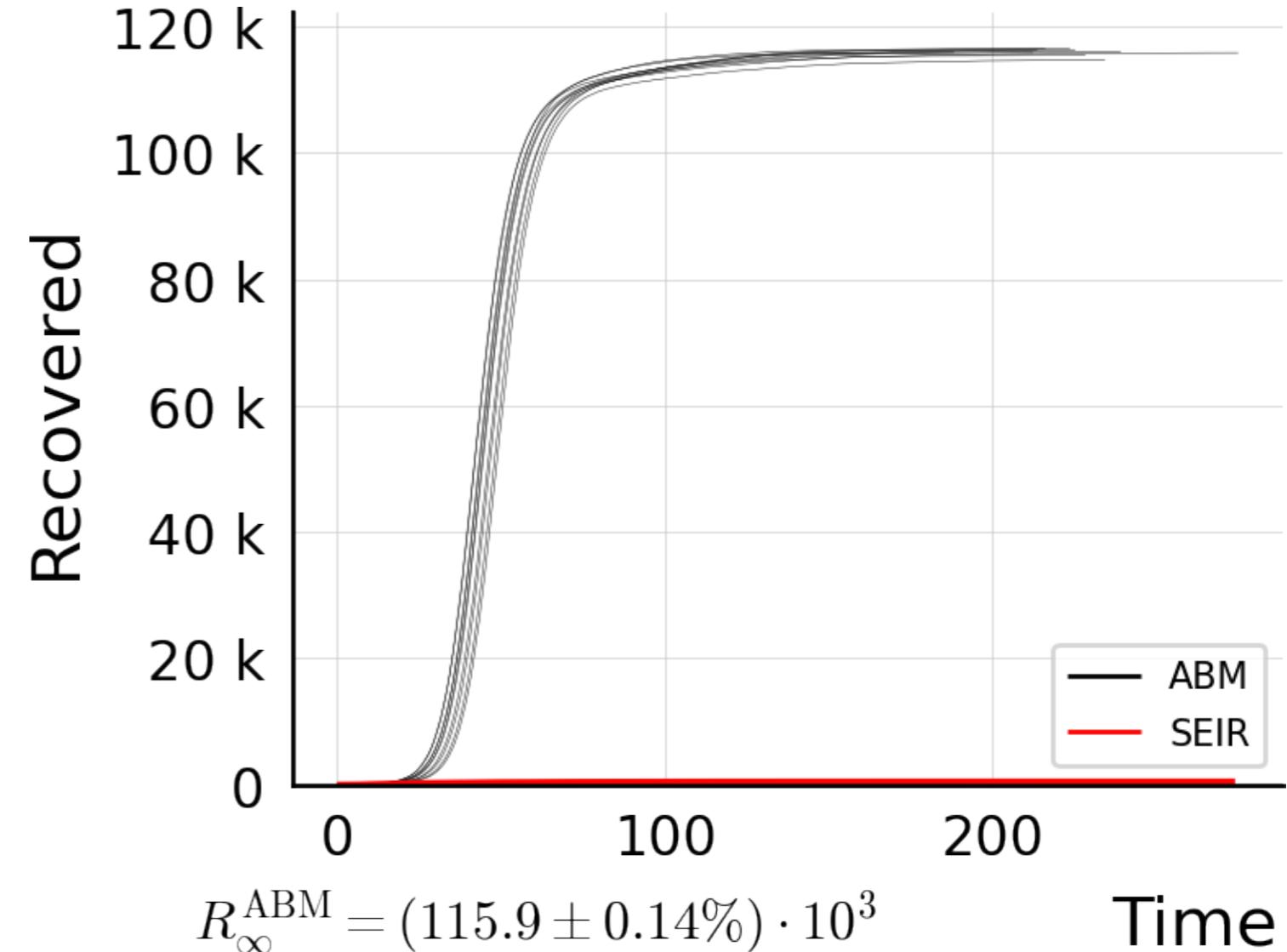
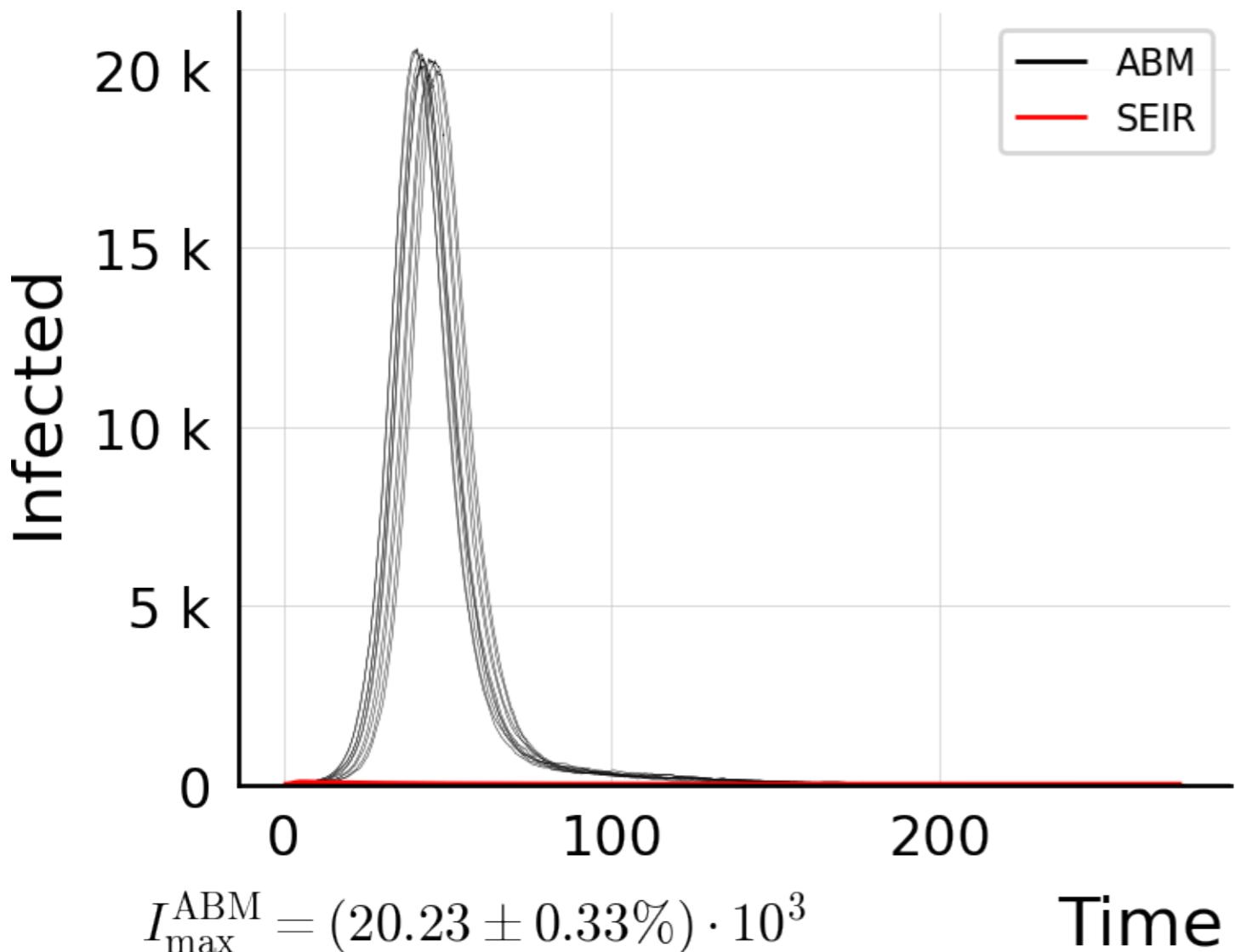
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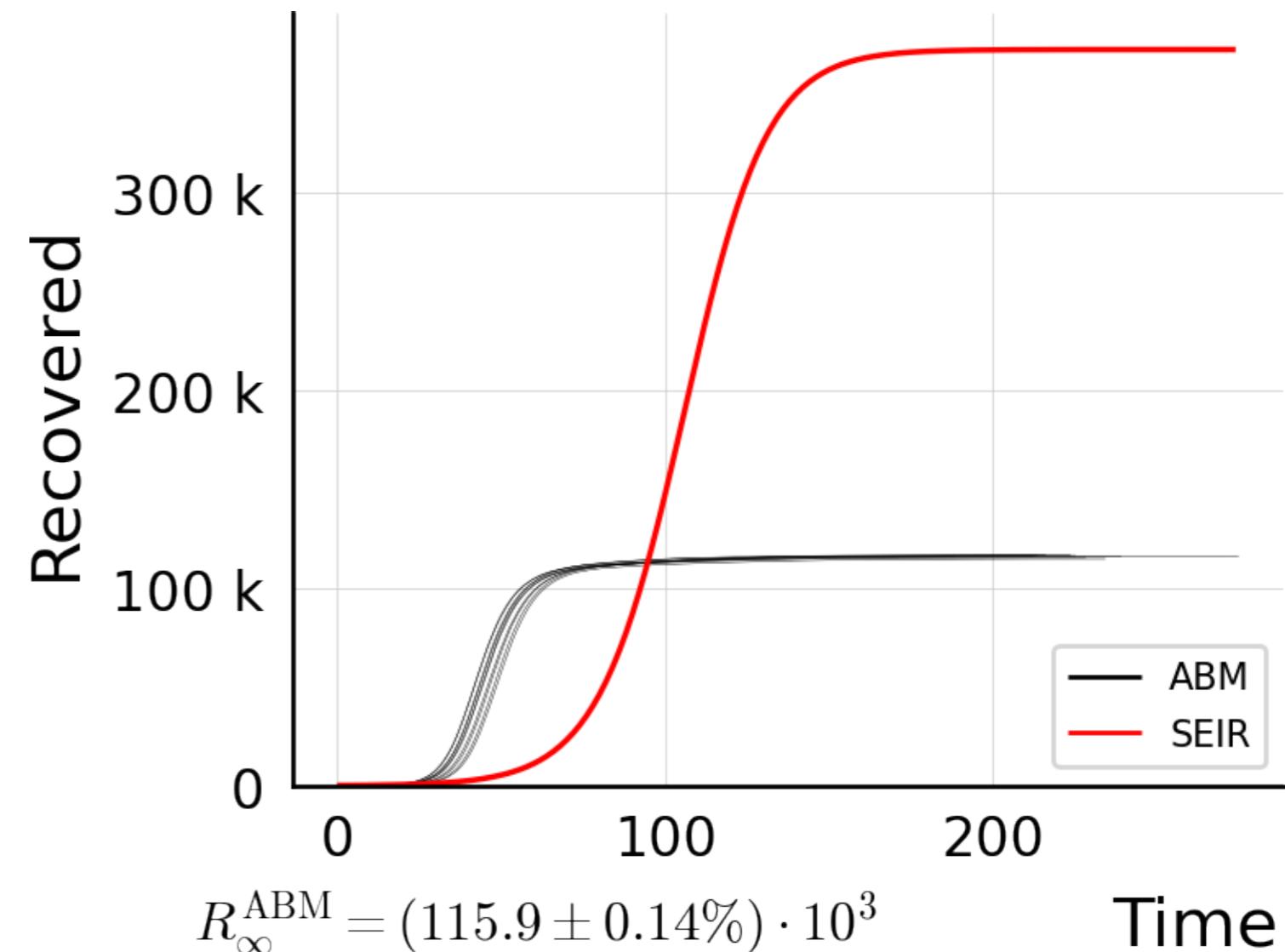
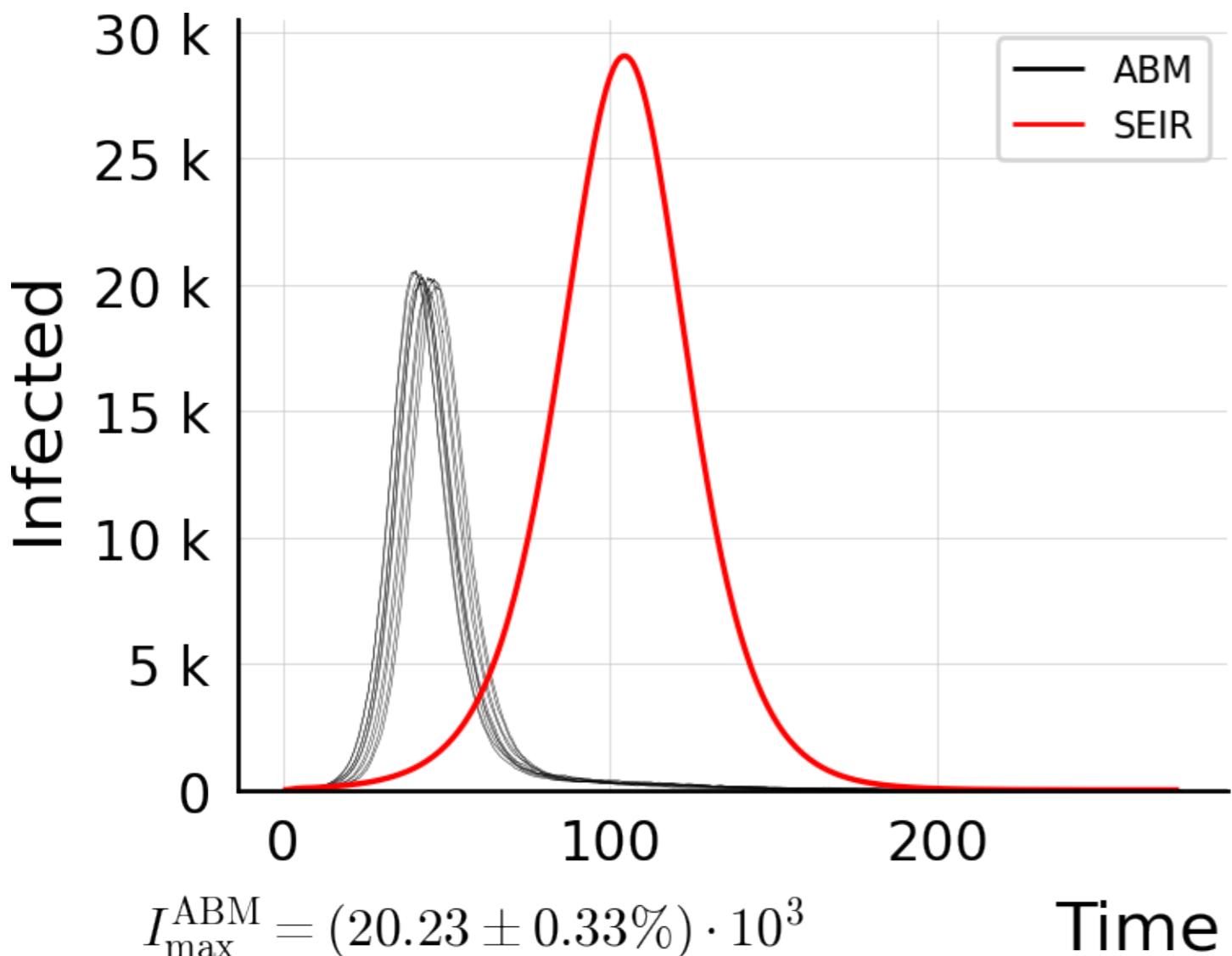
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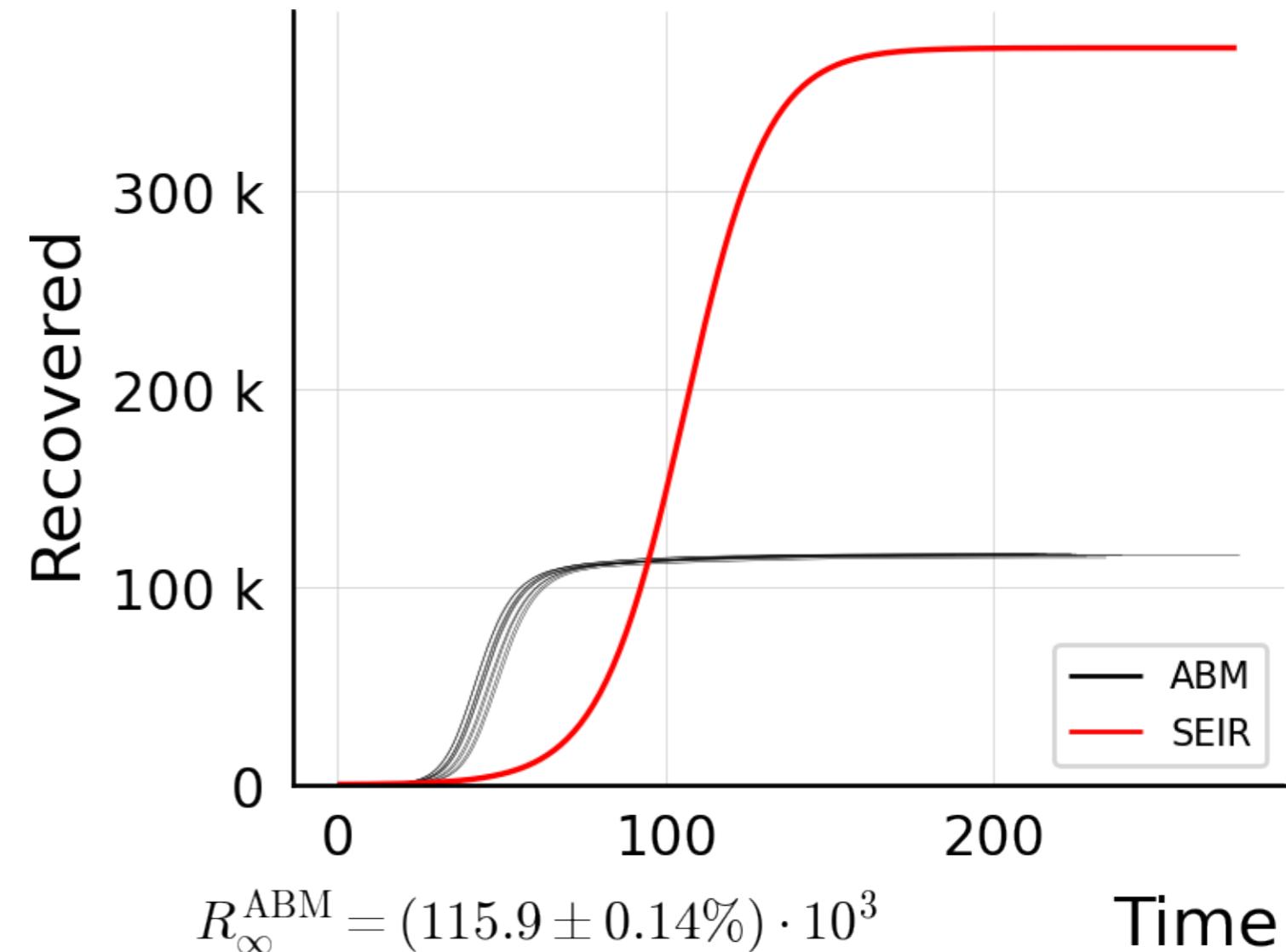
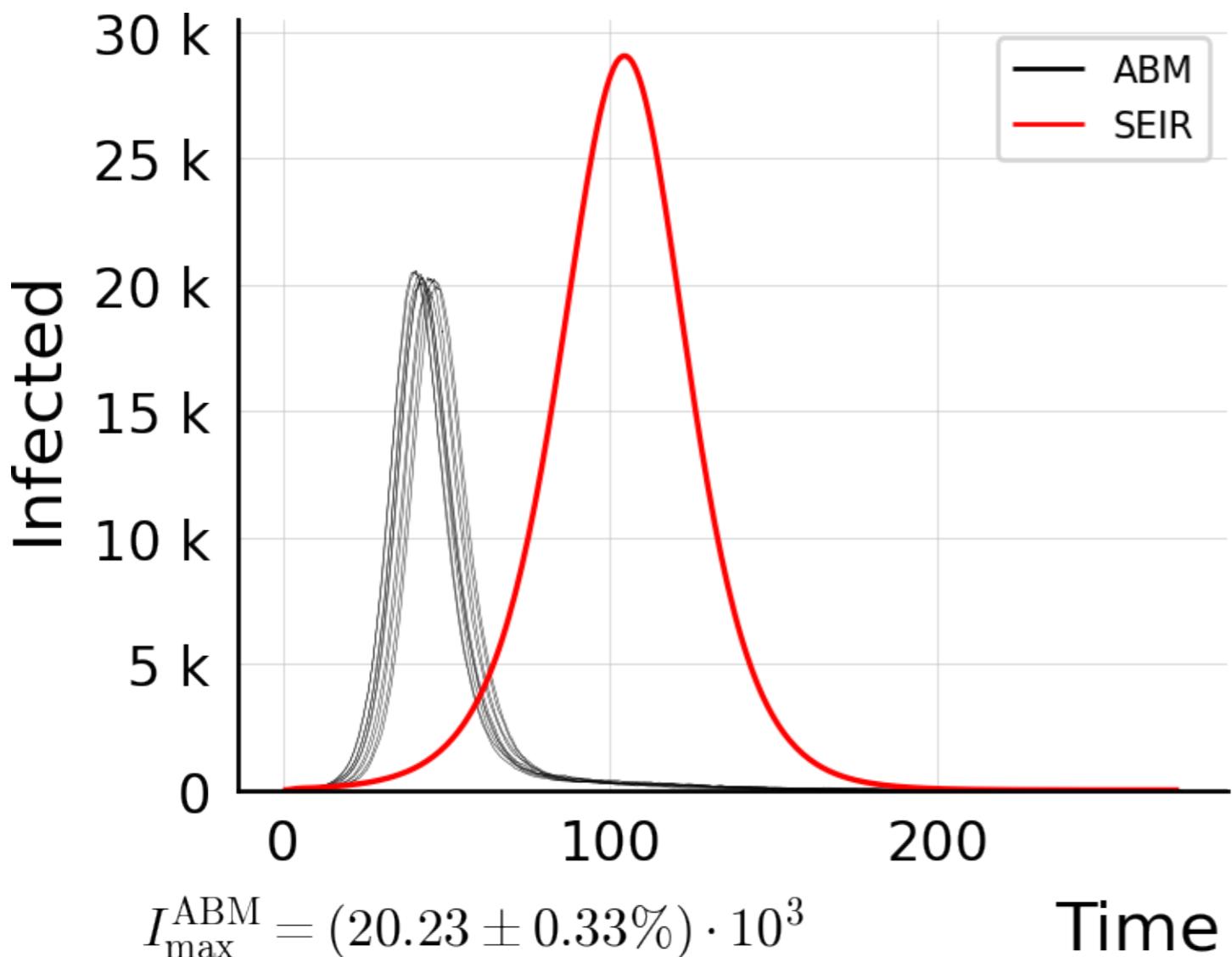
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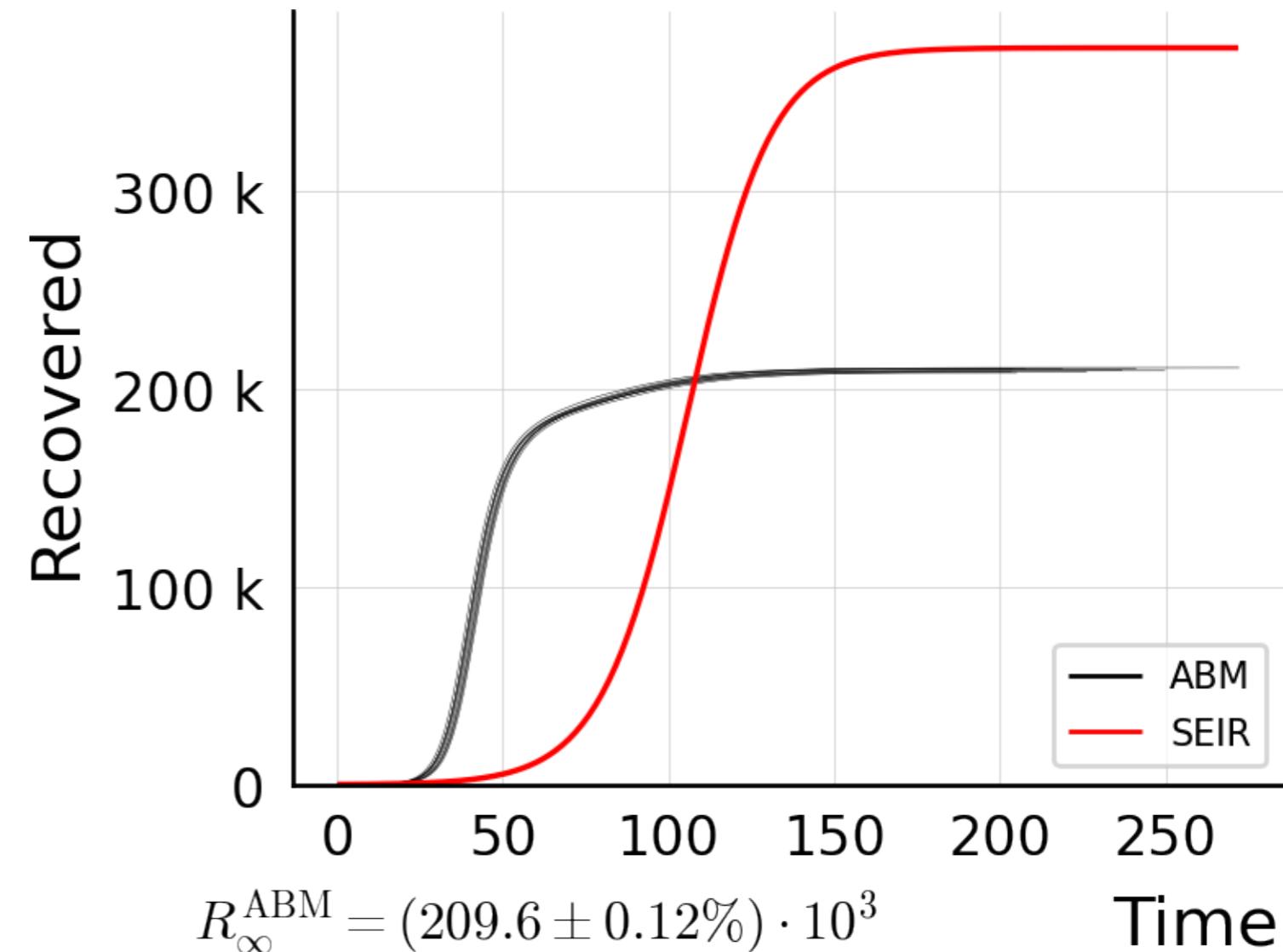
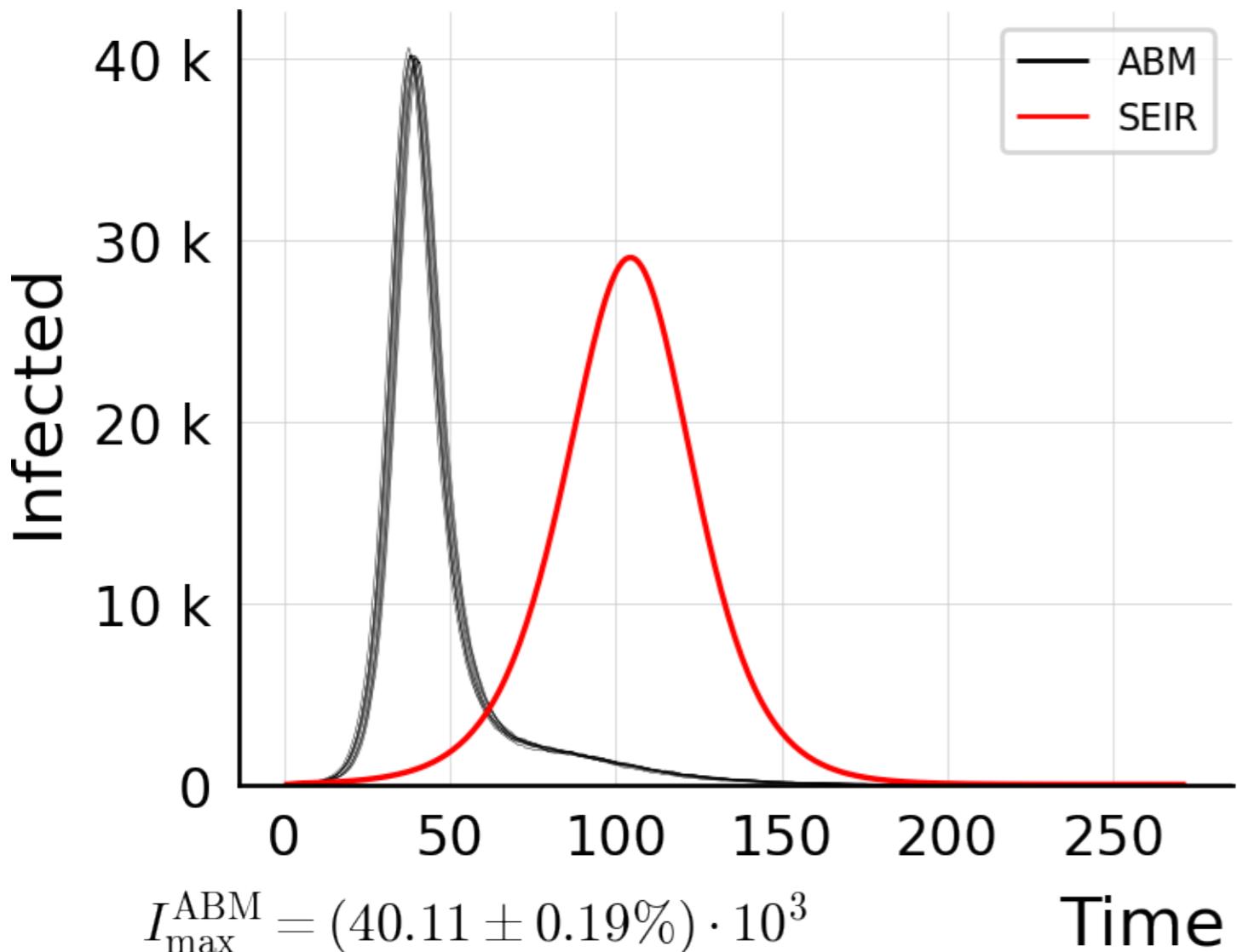
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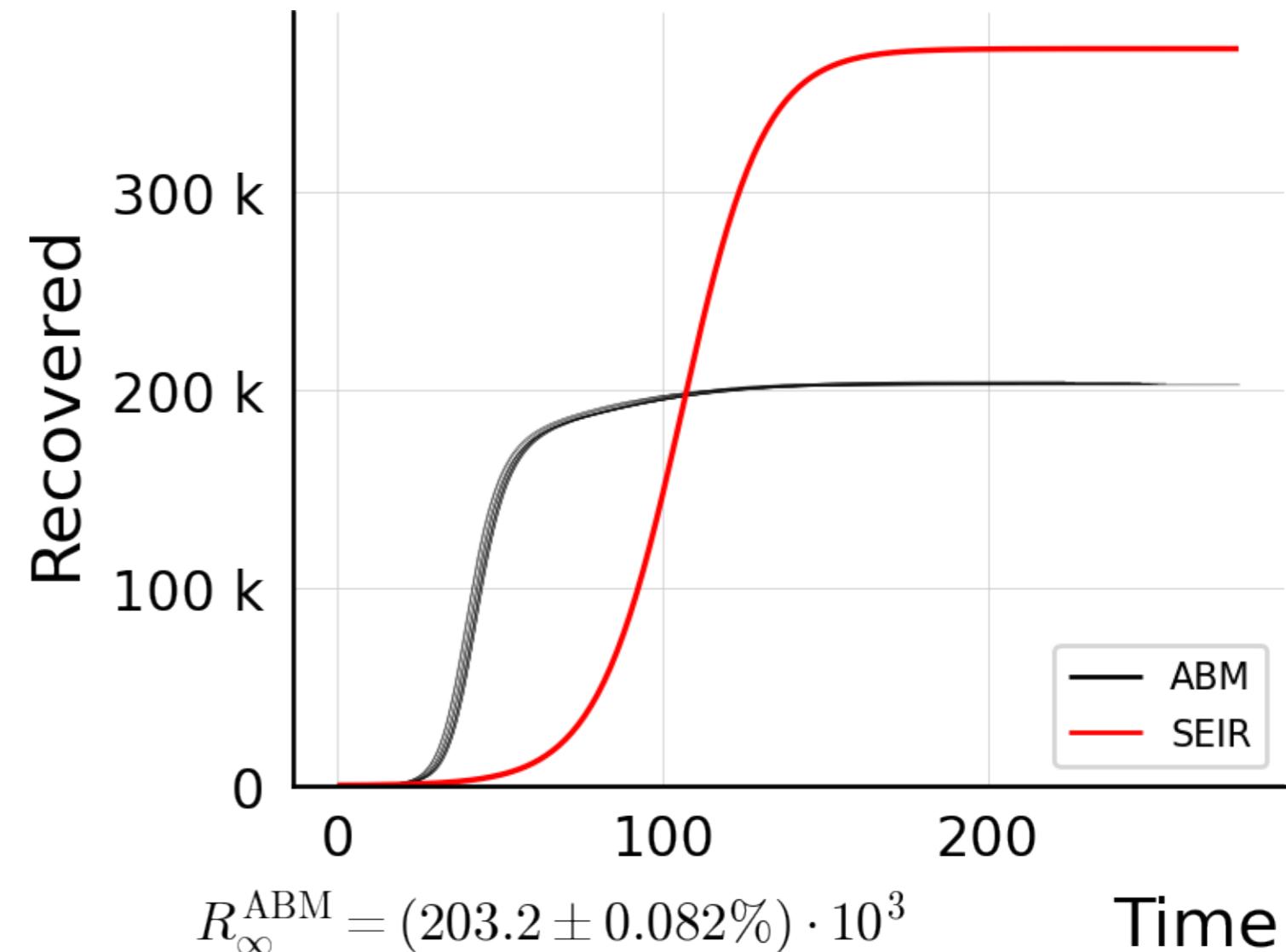
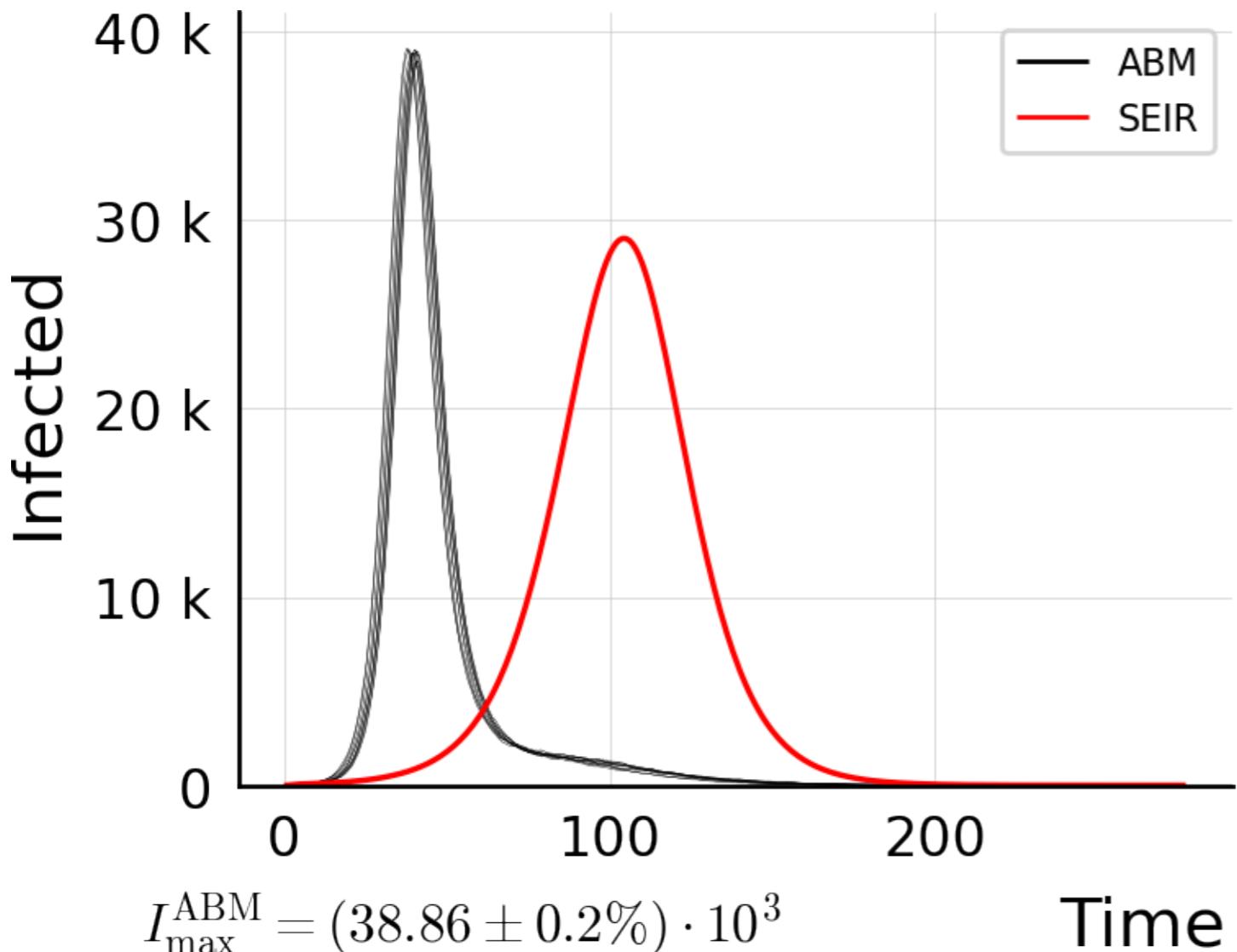
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 10.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
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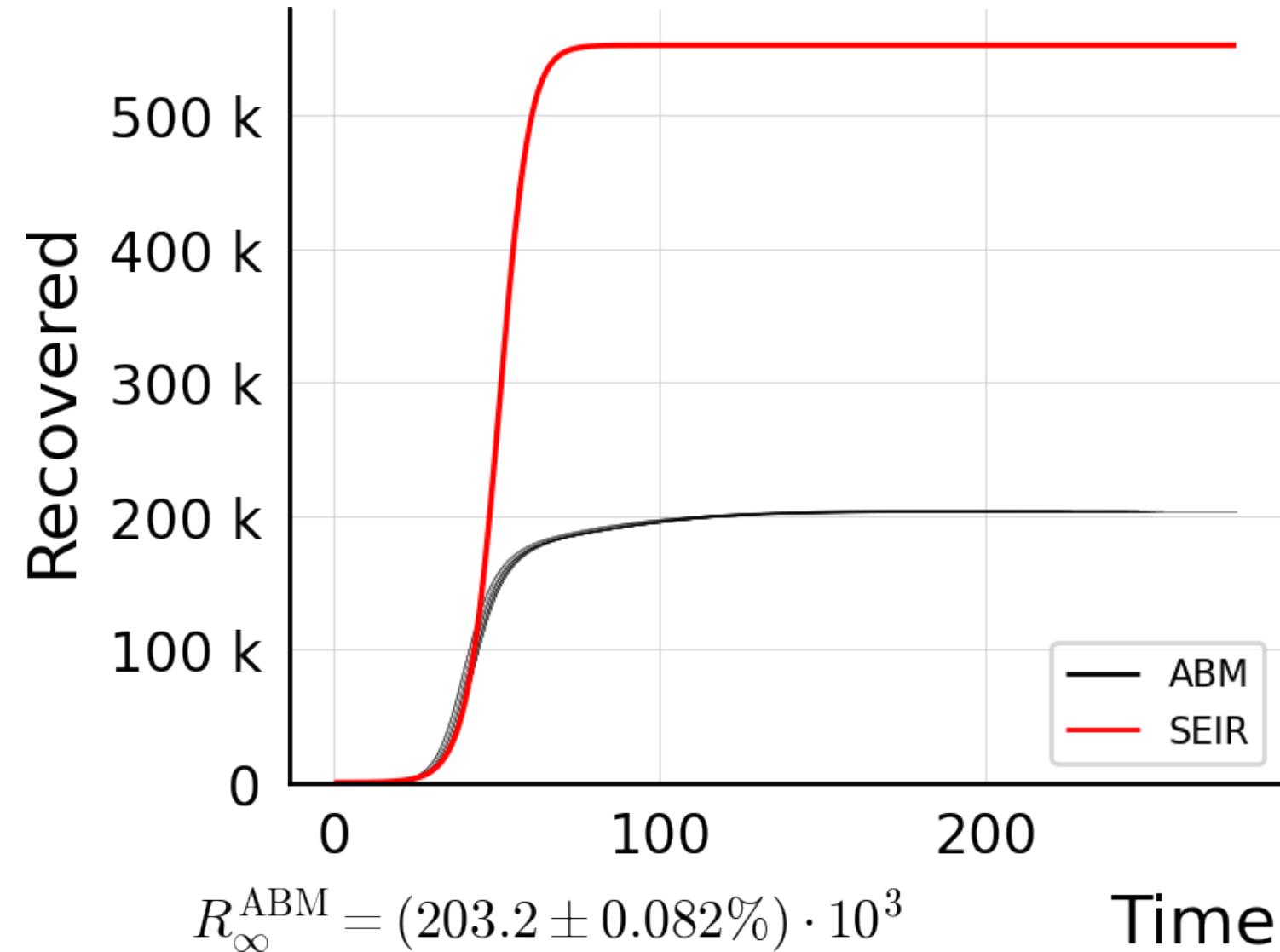
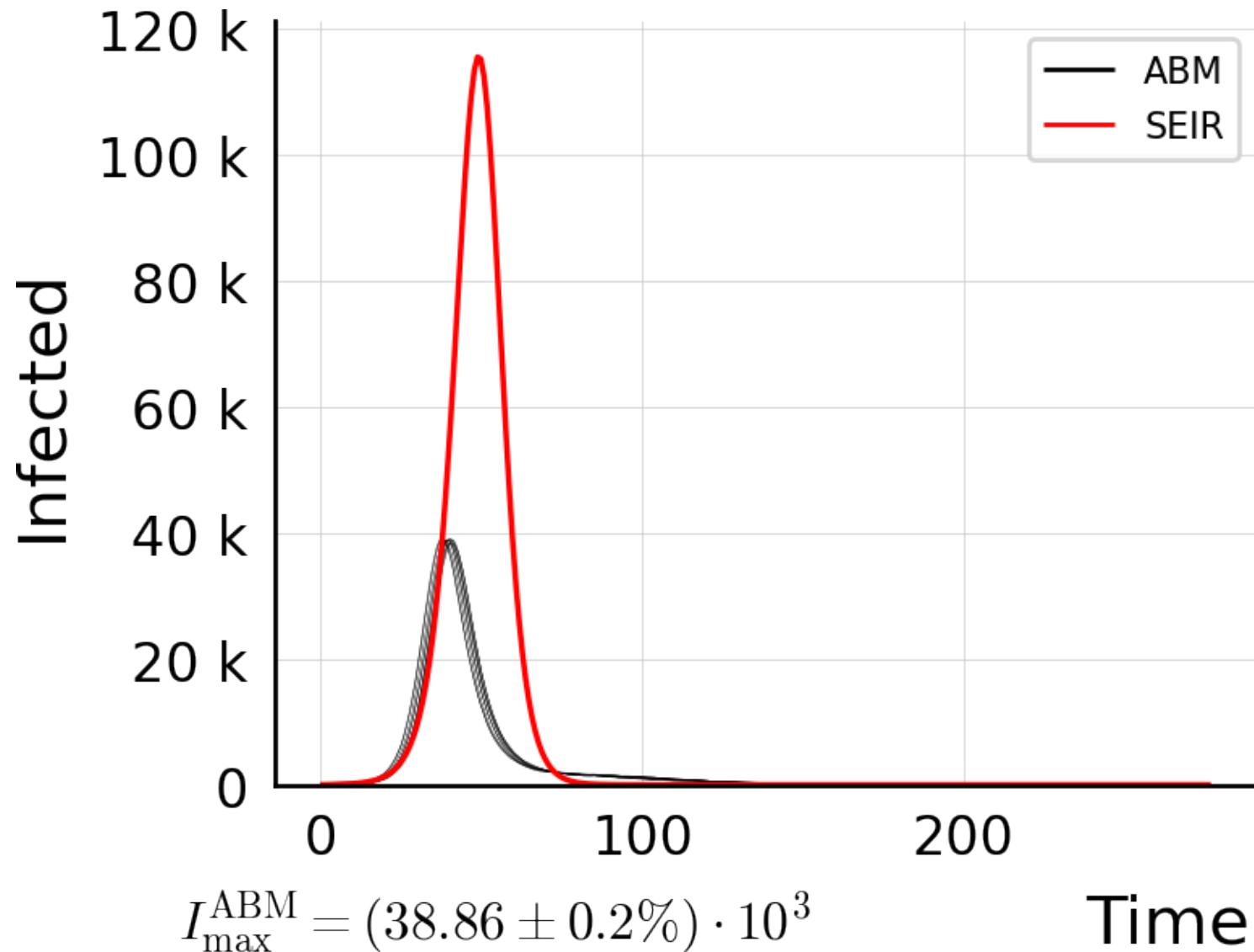
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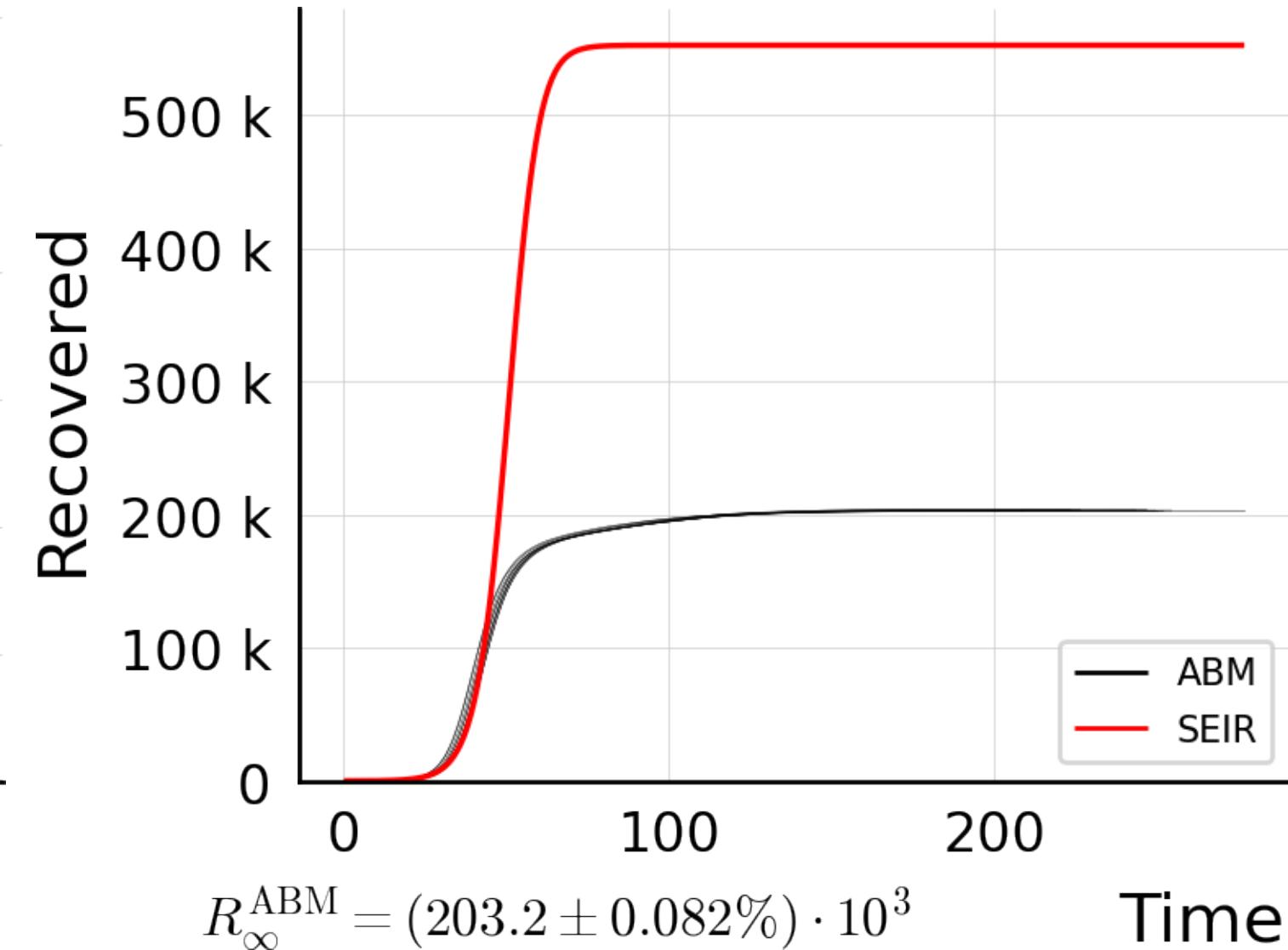
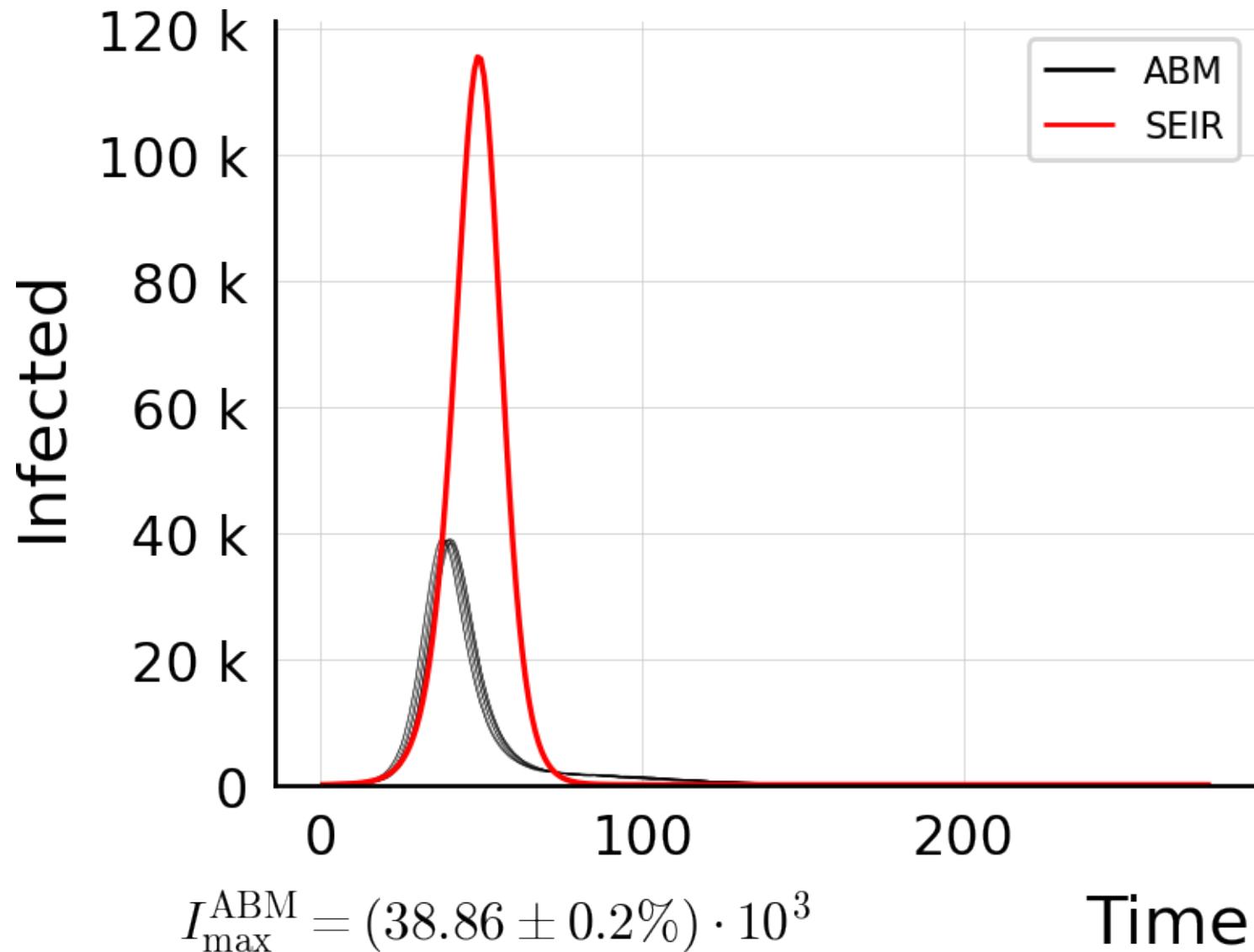
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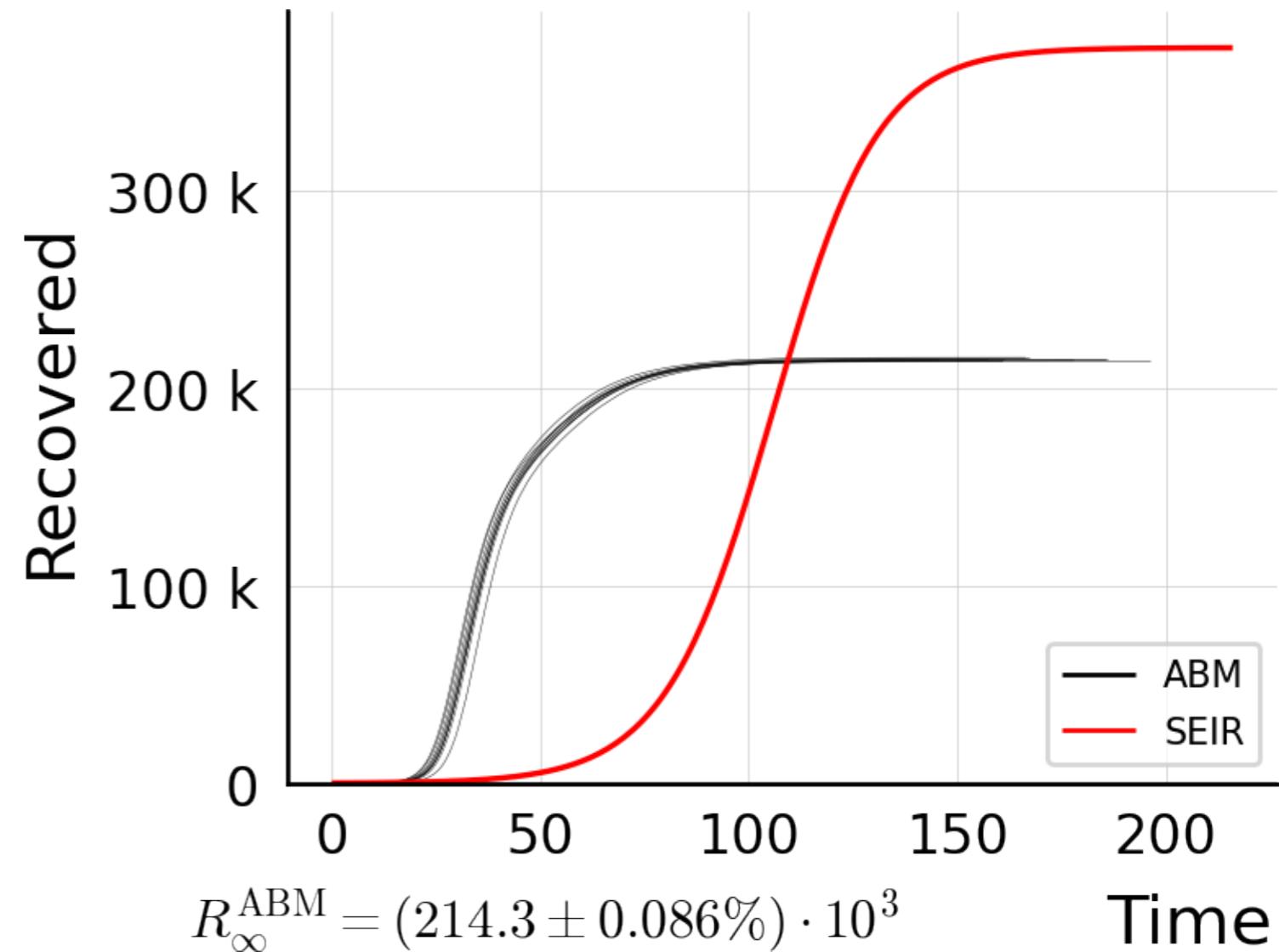
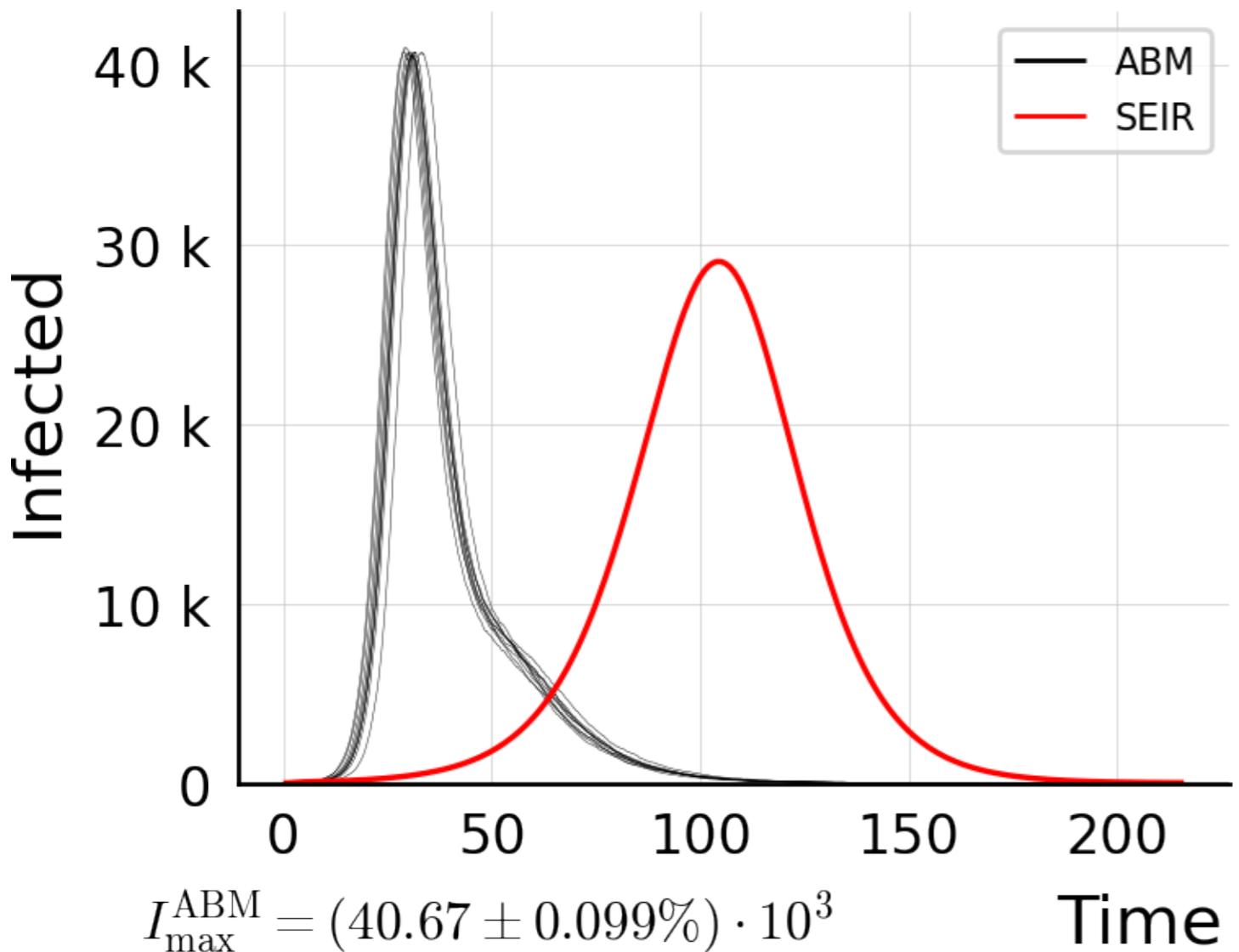
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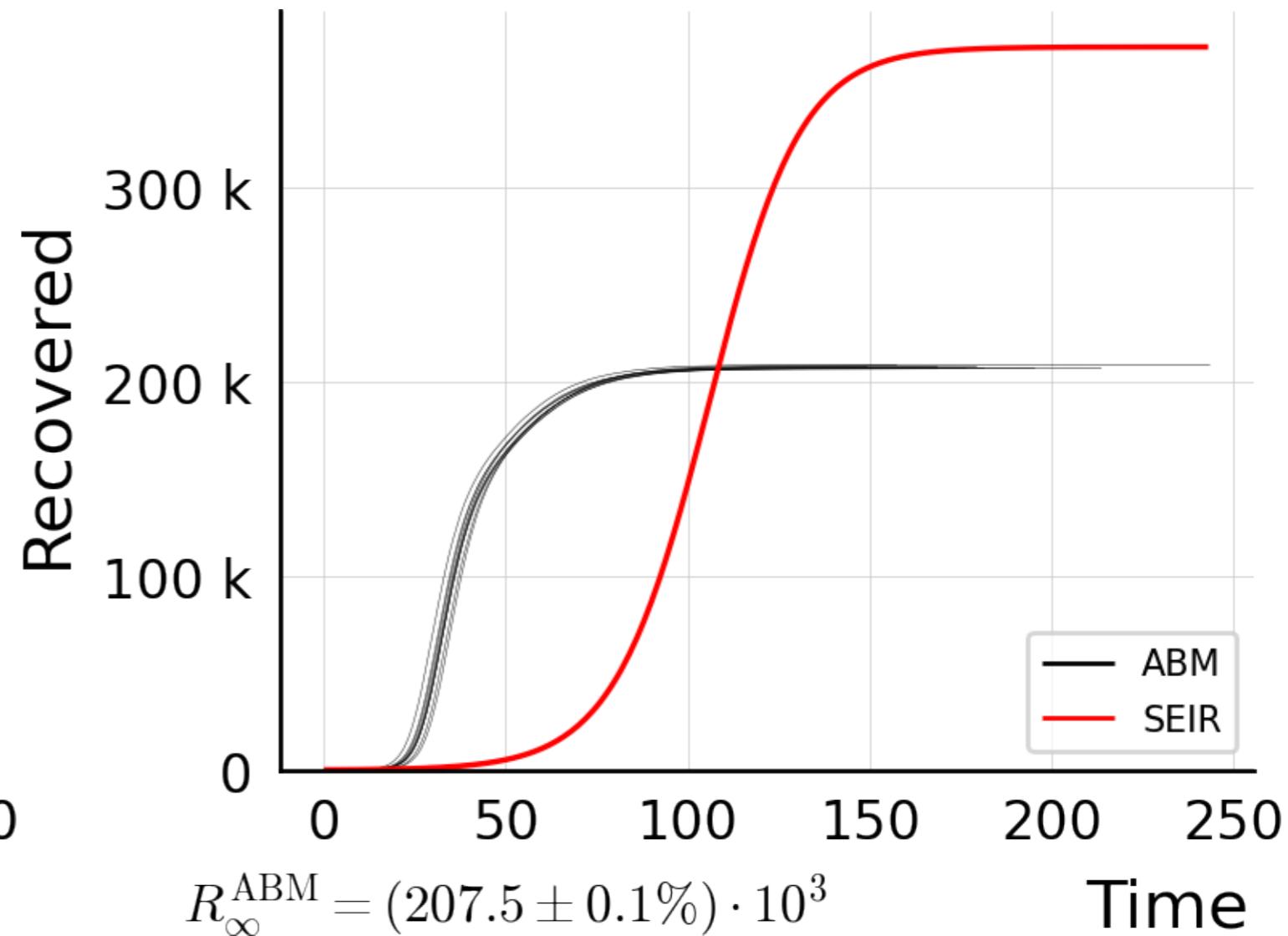
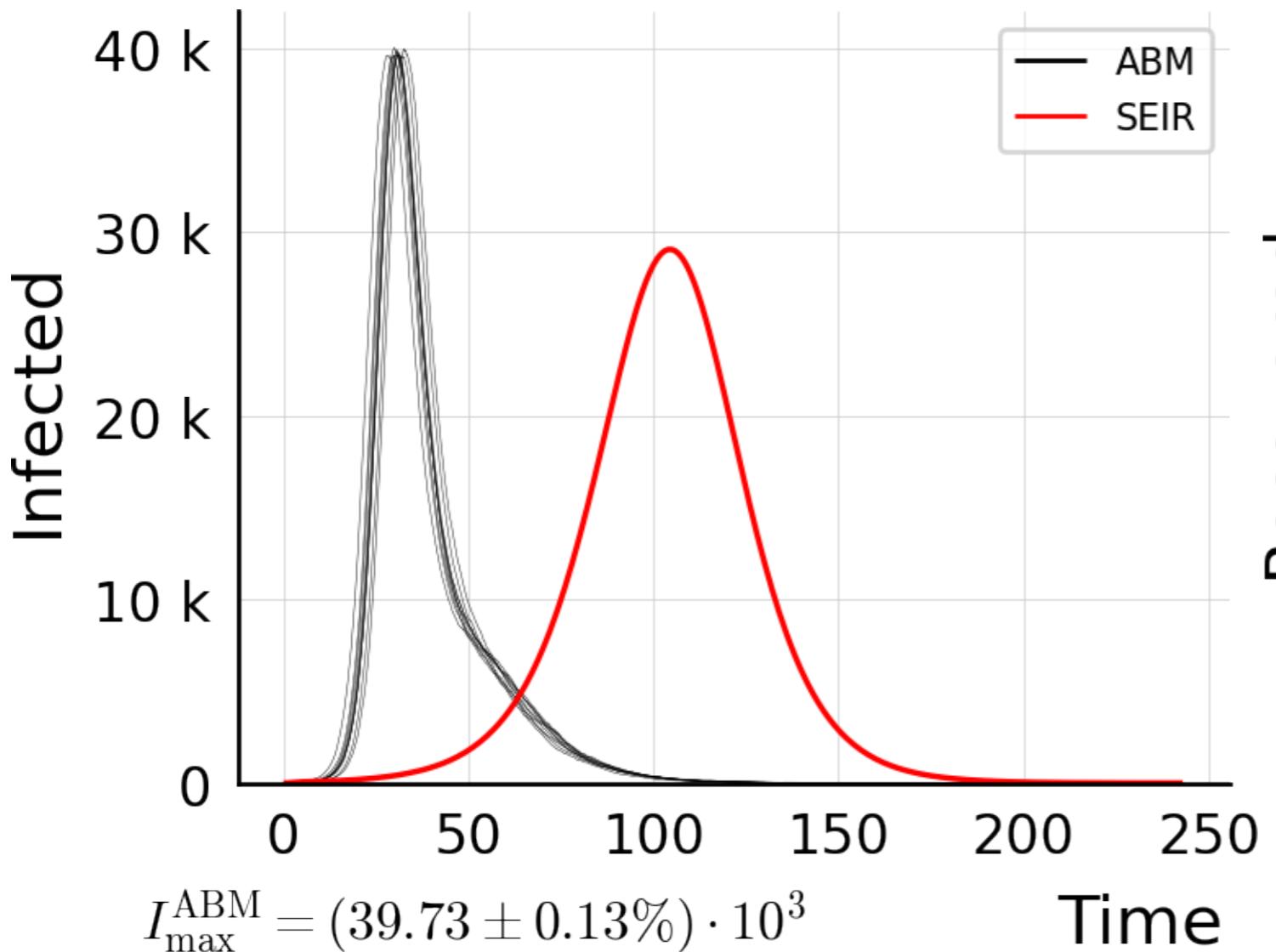
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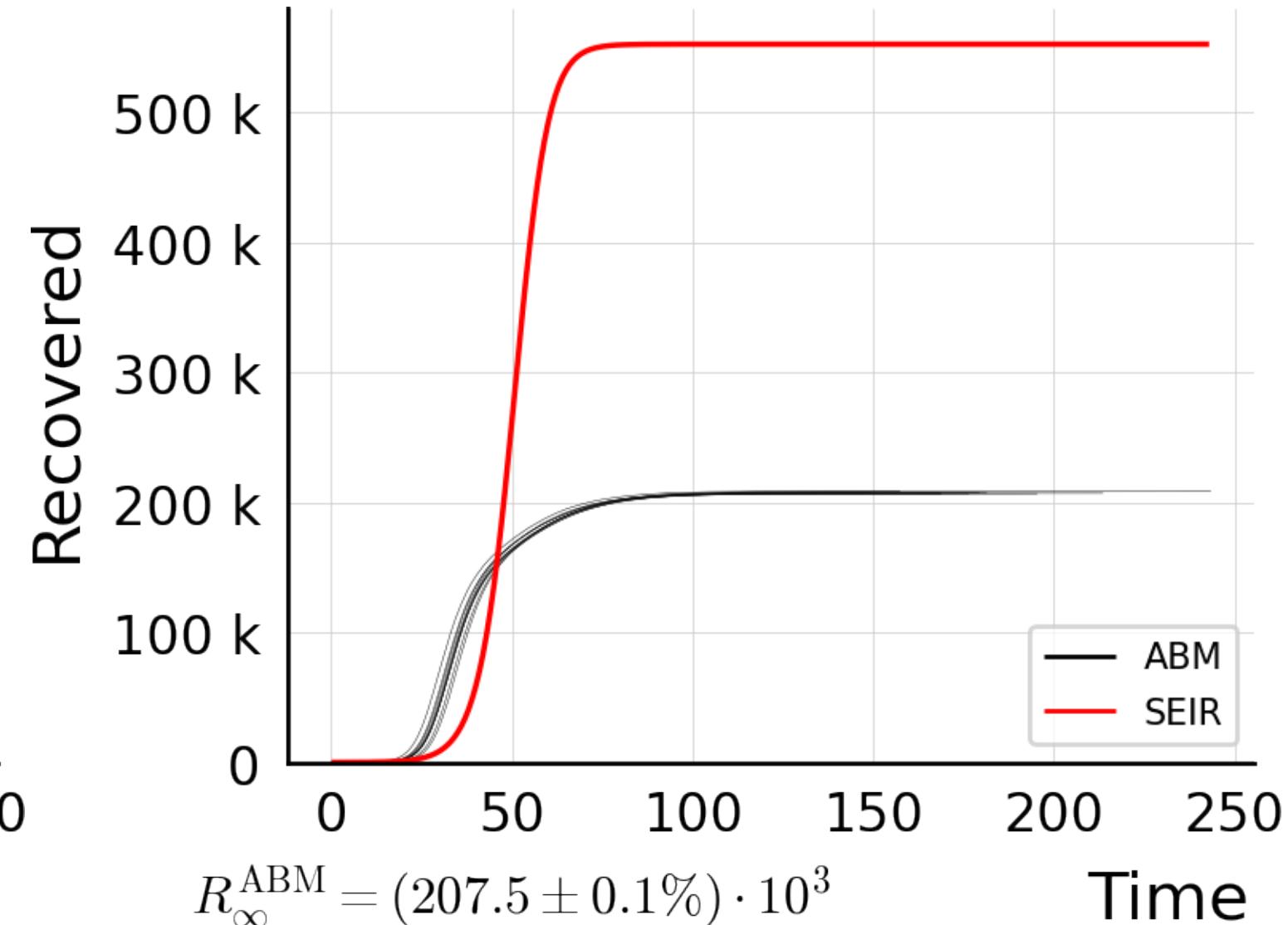
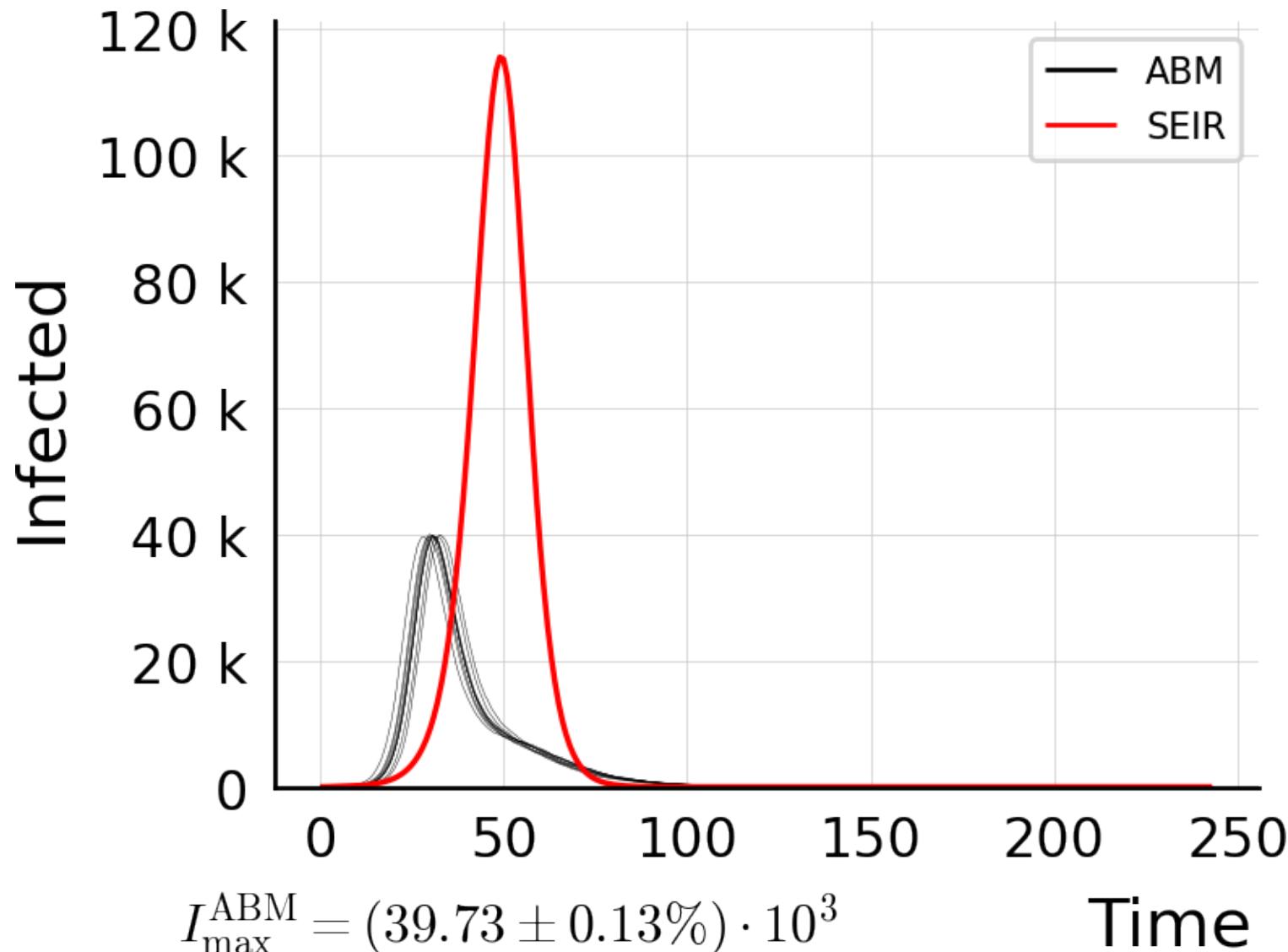
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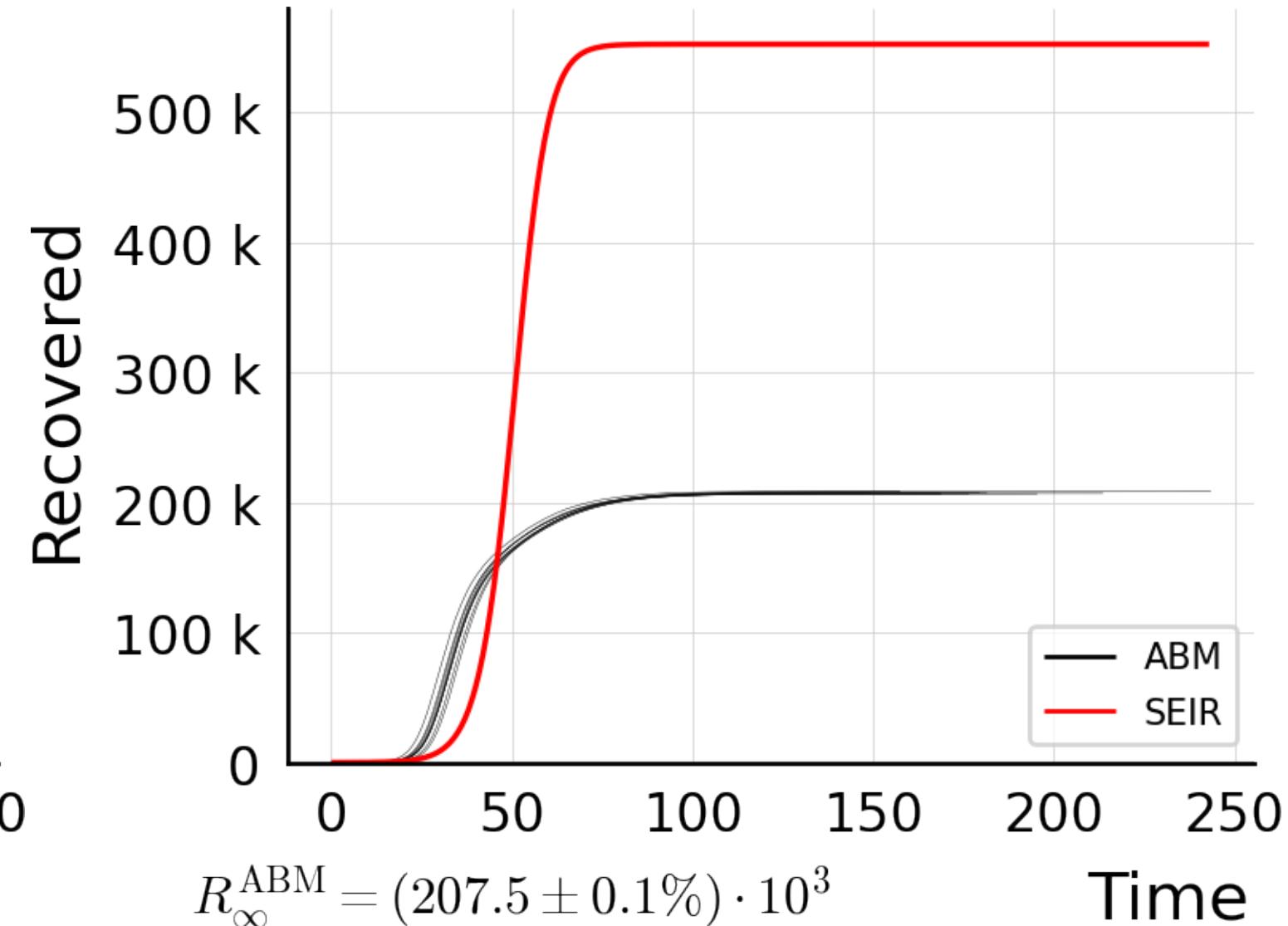
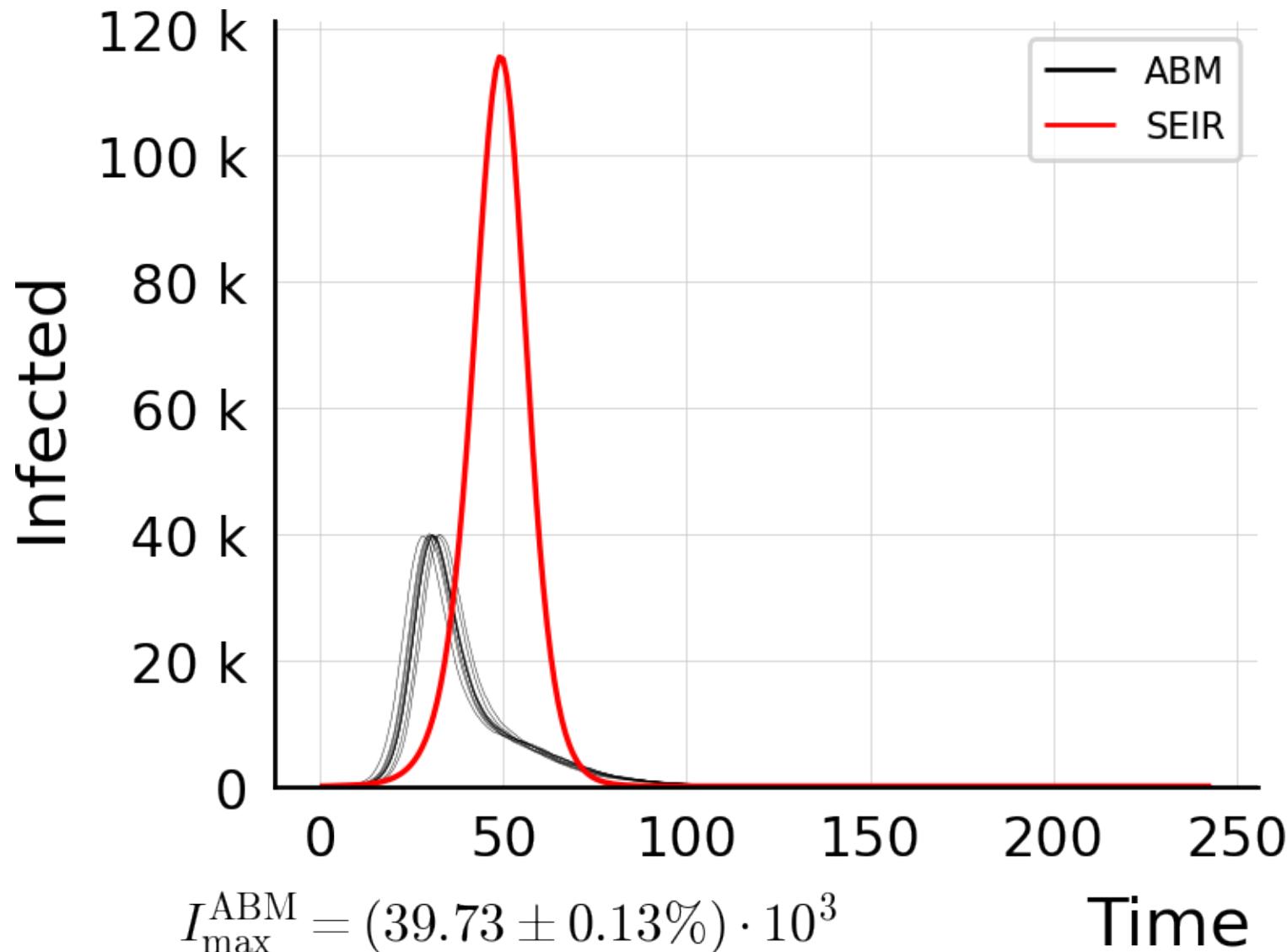
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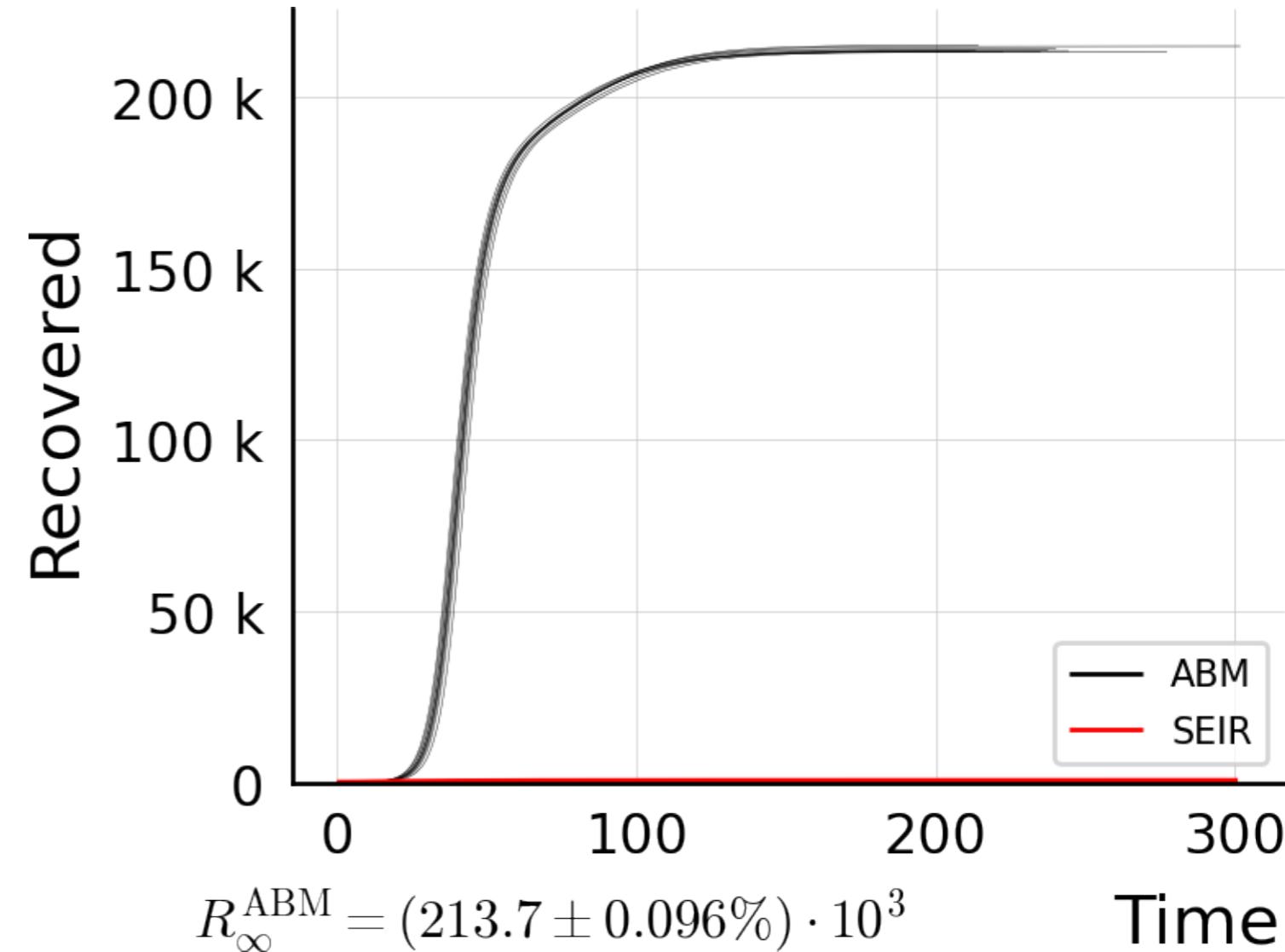
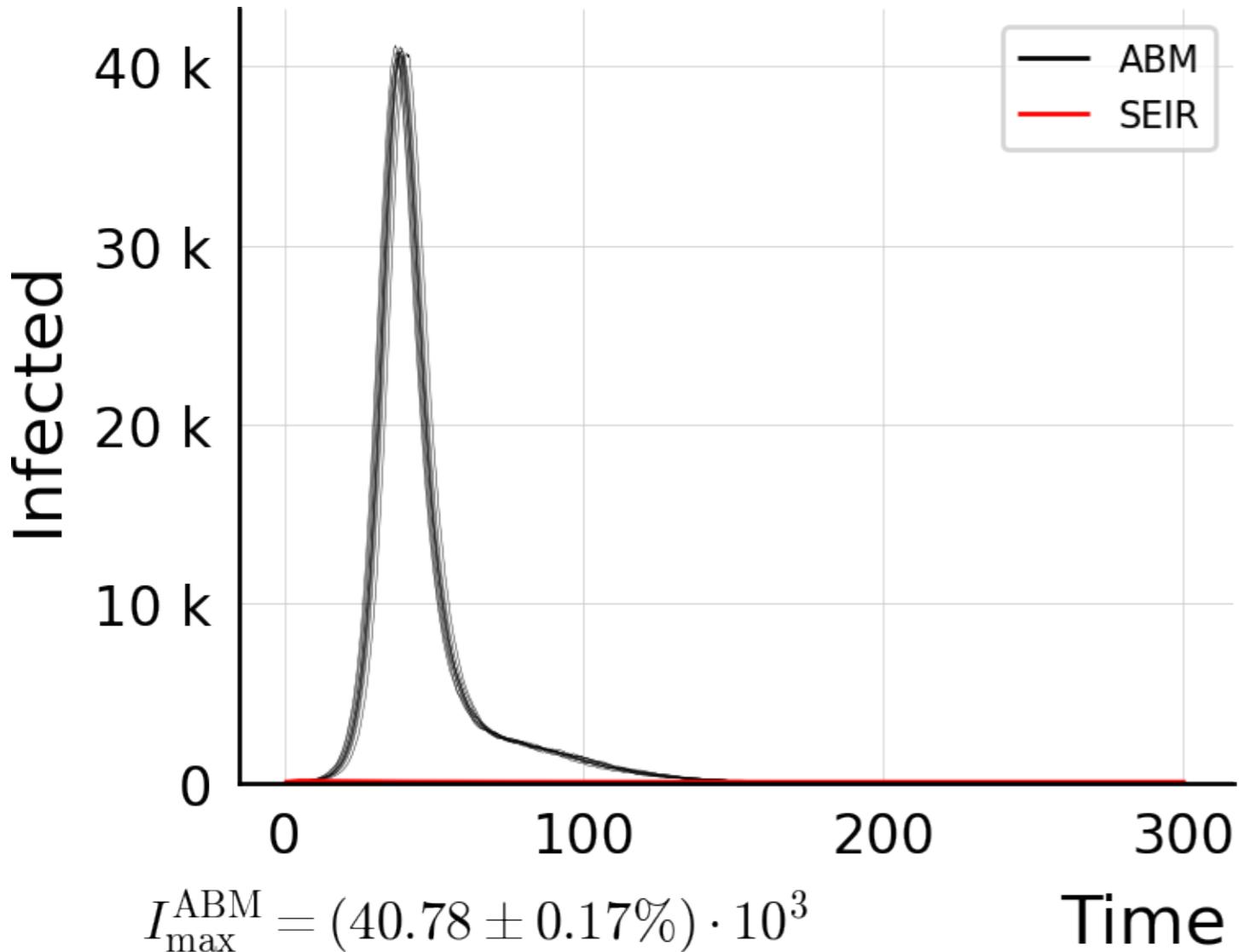
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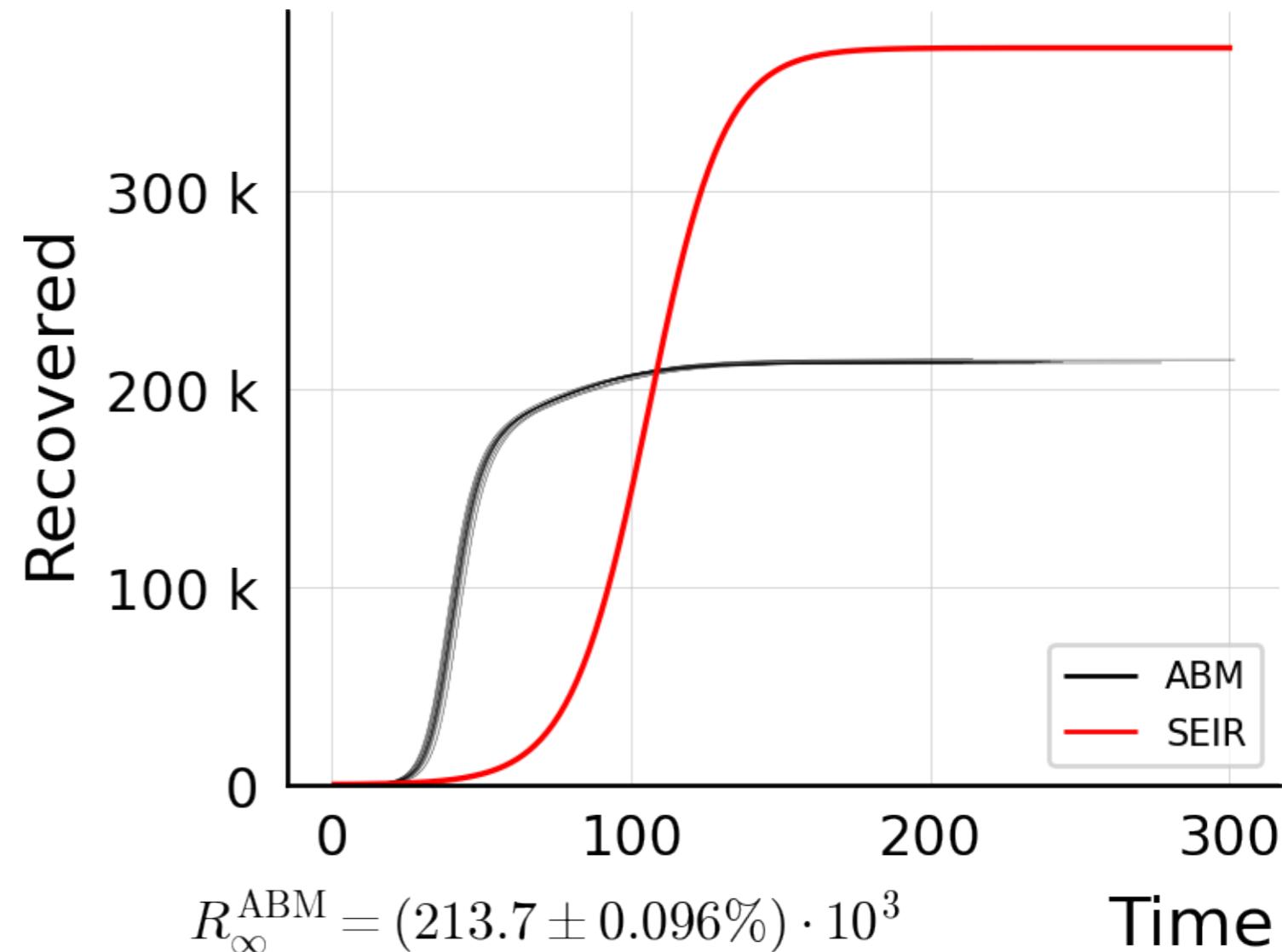
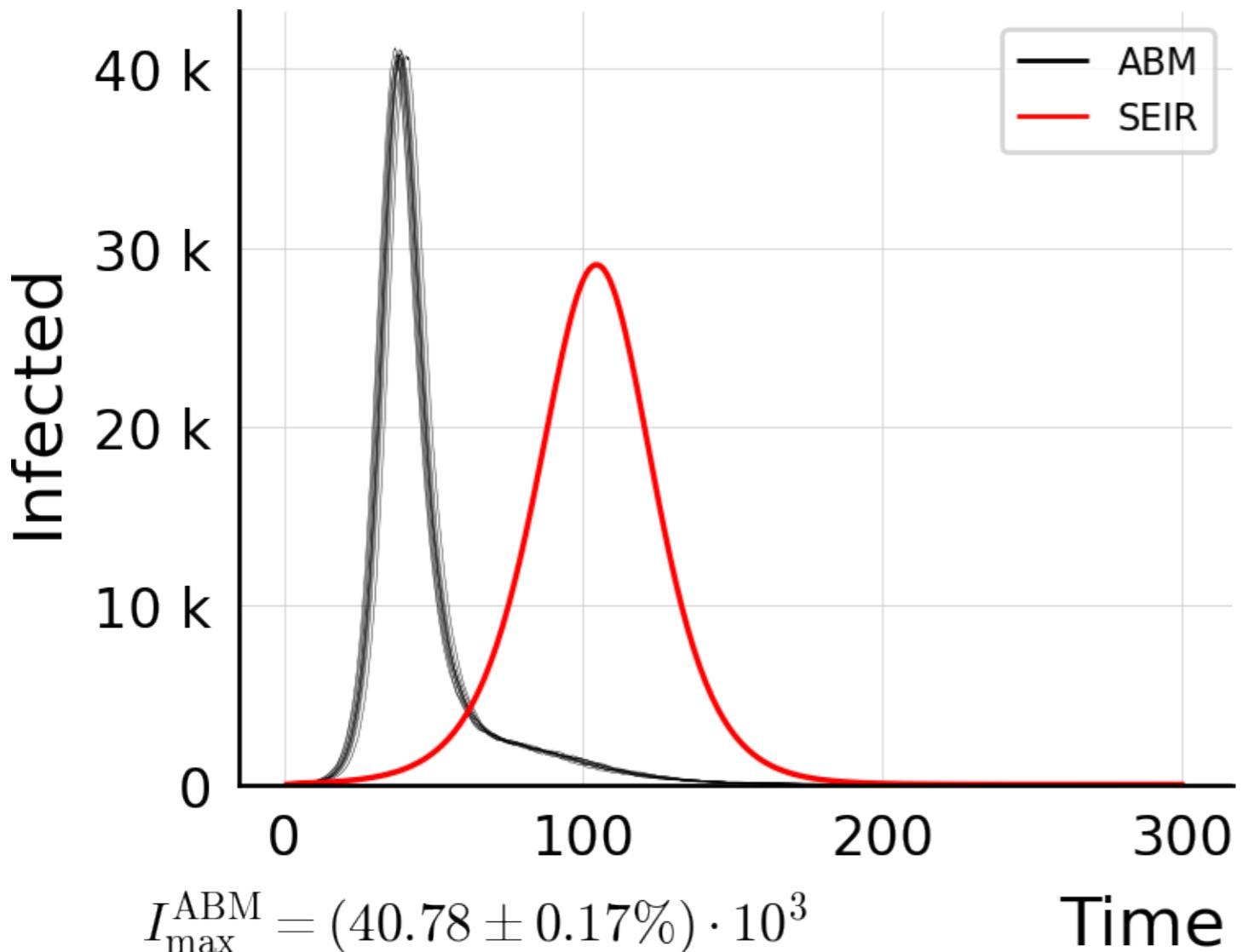
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 20.0$, $\sigma_\mu = 1.0$, $\beta = 0.04$, $\sigma_\beta = 1.0$
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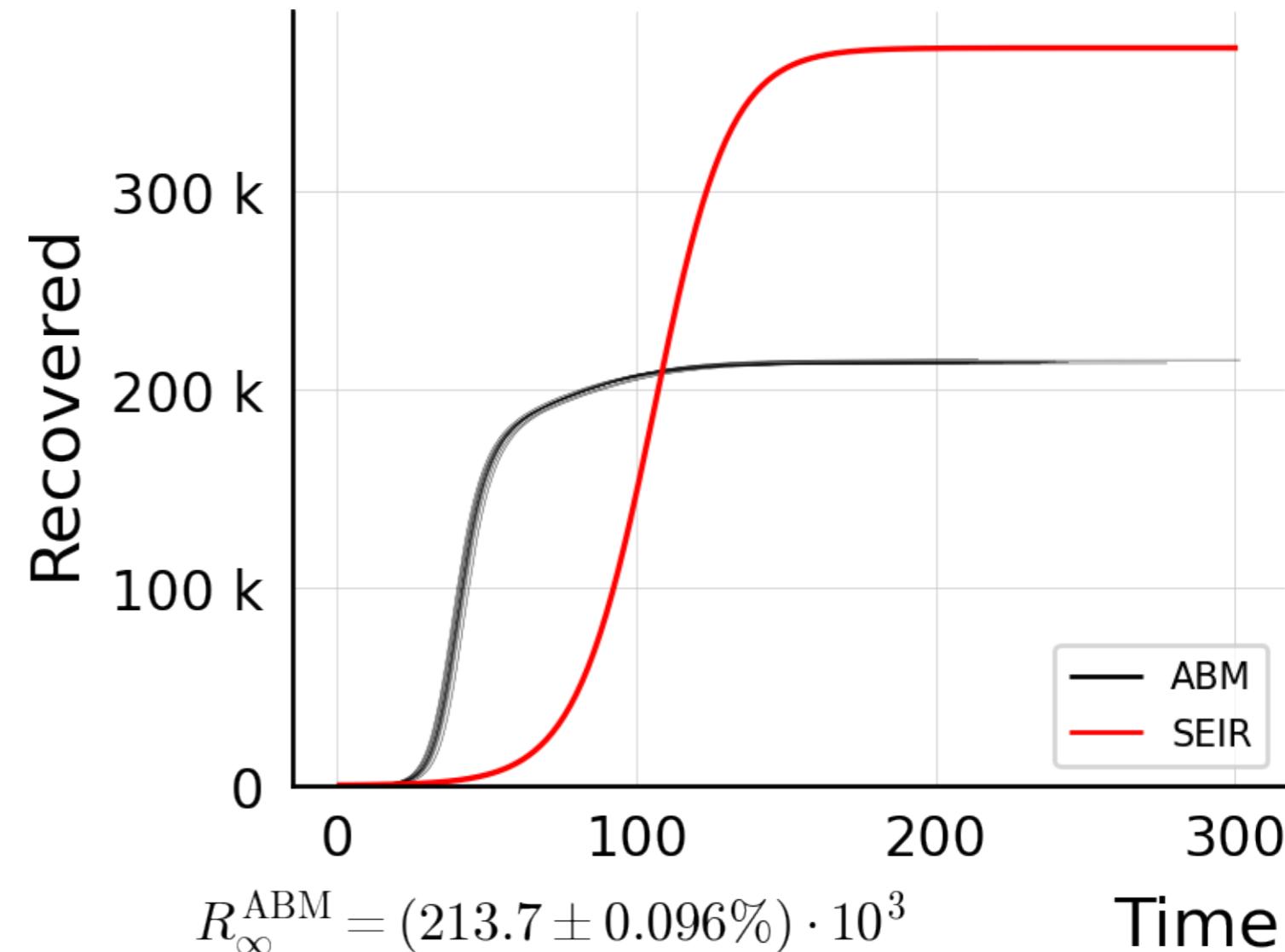
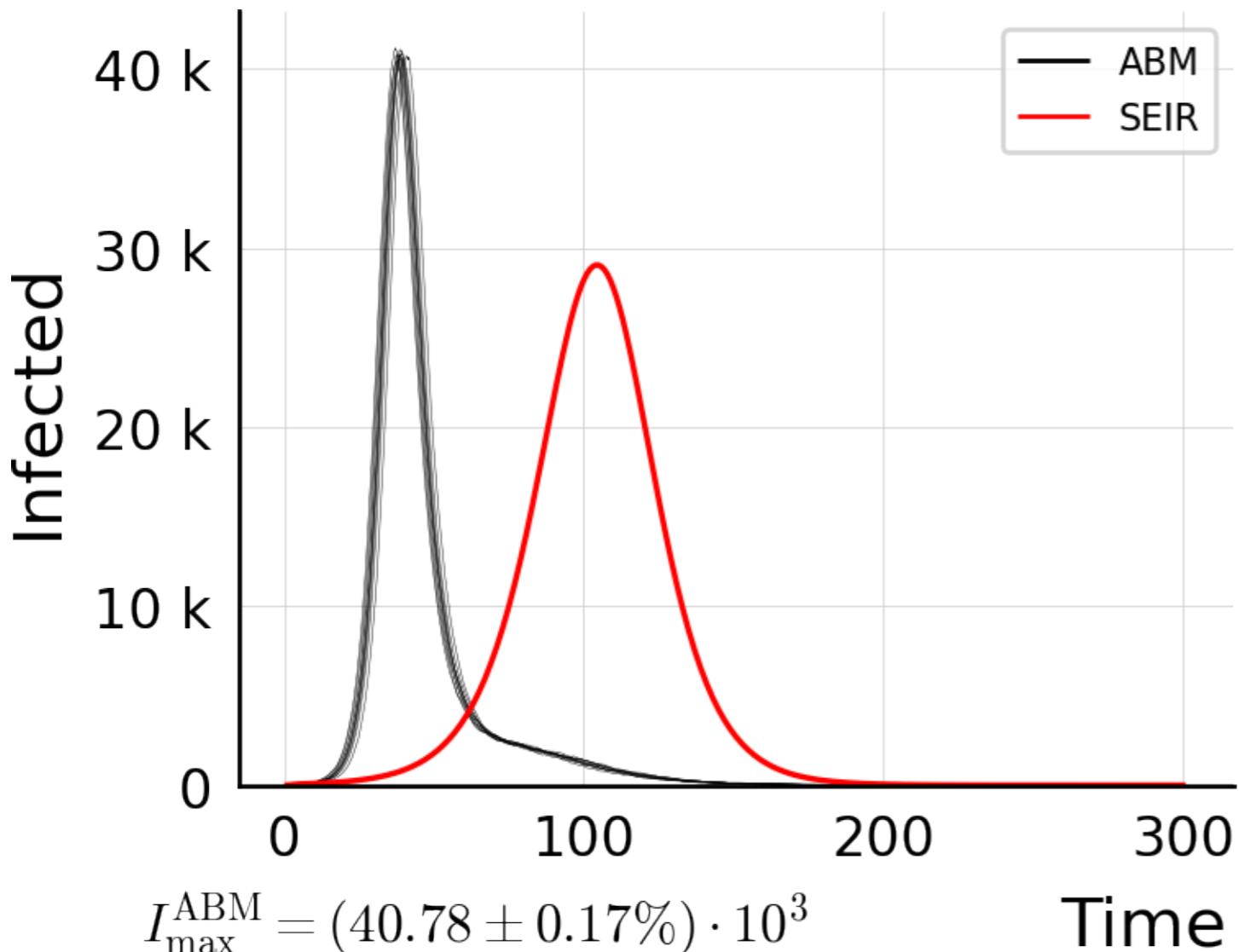
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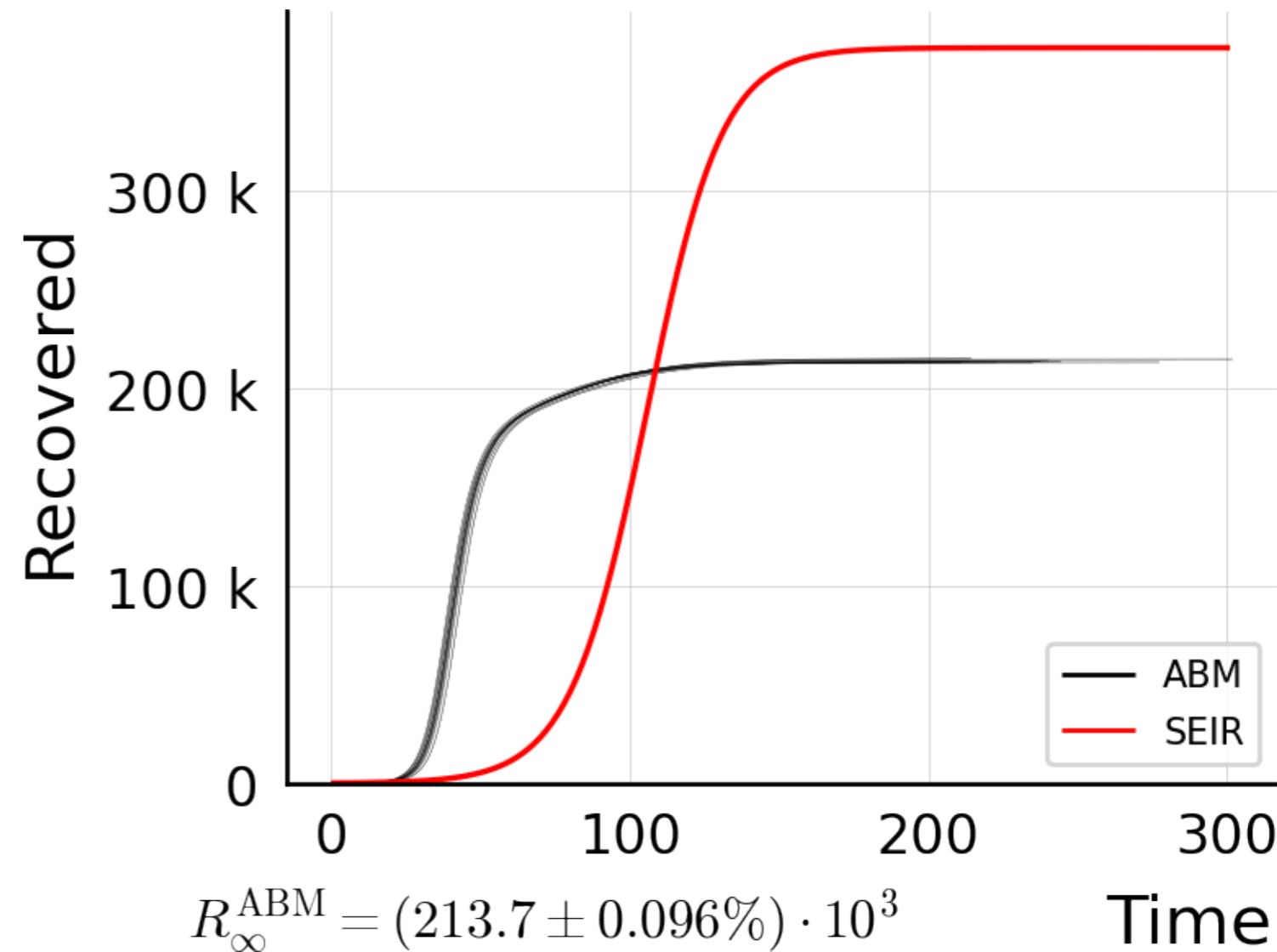
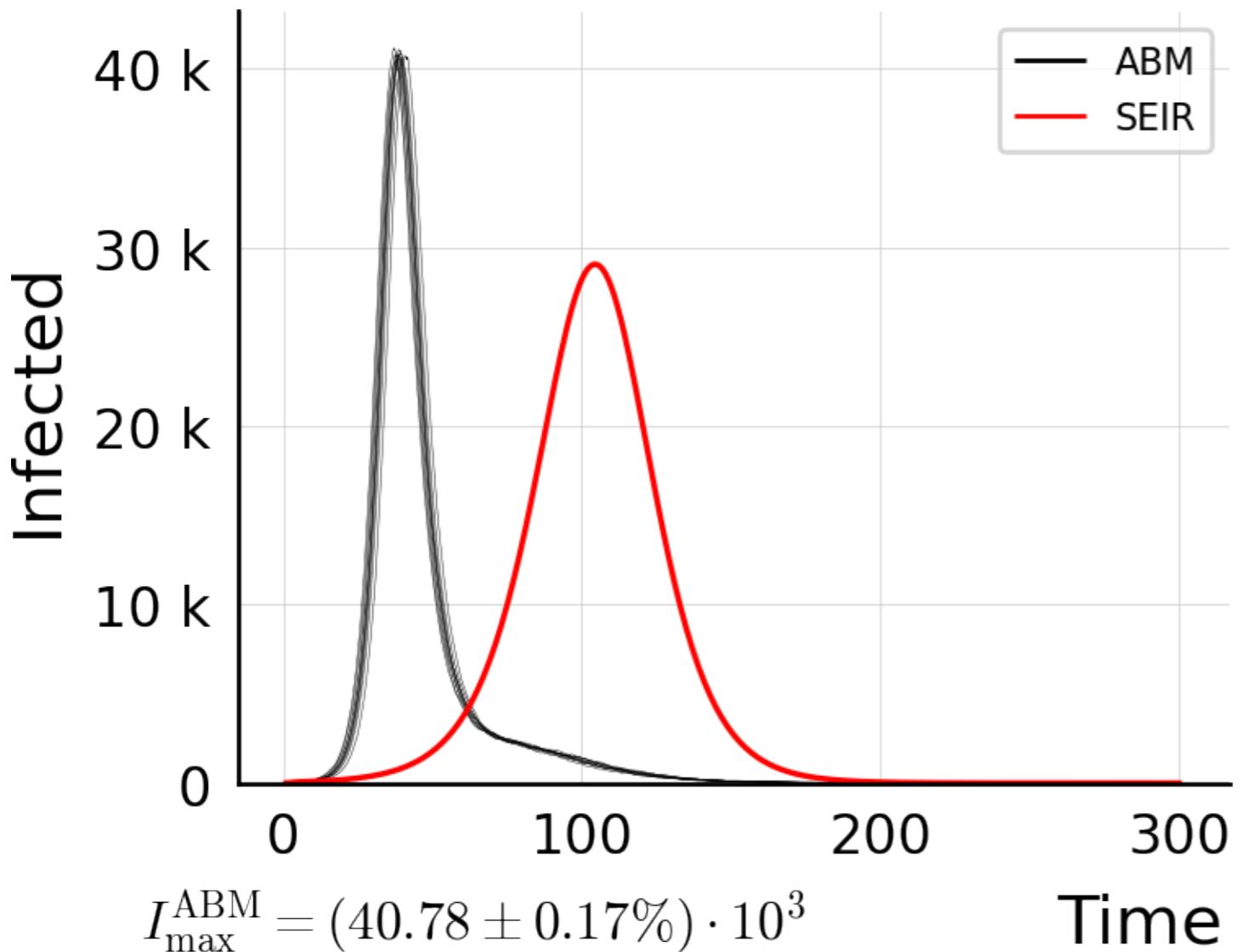
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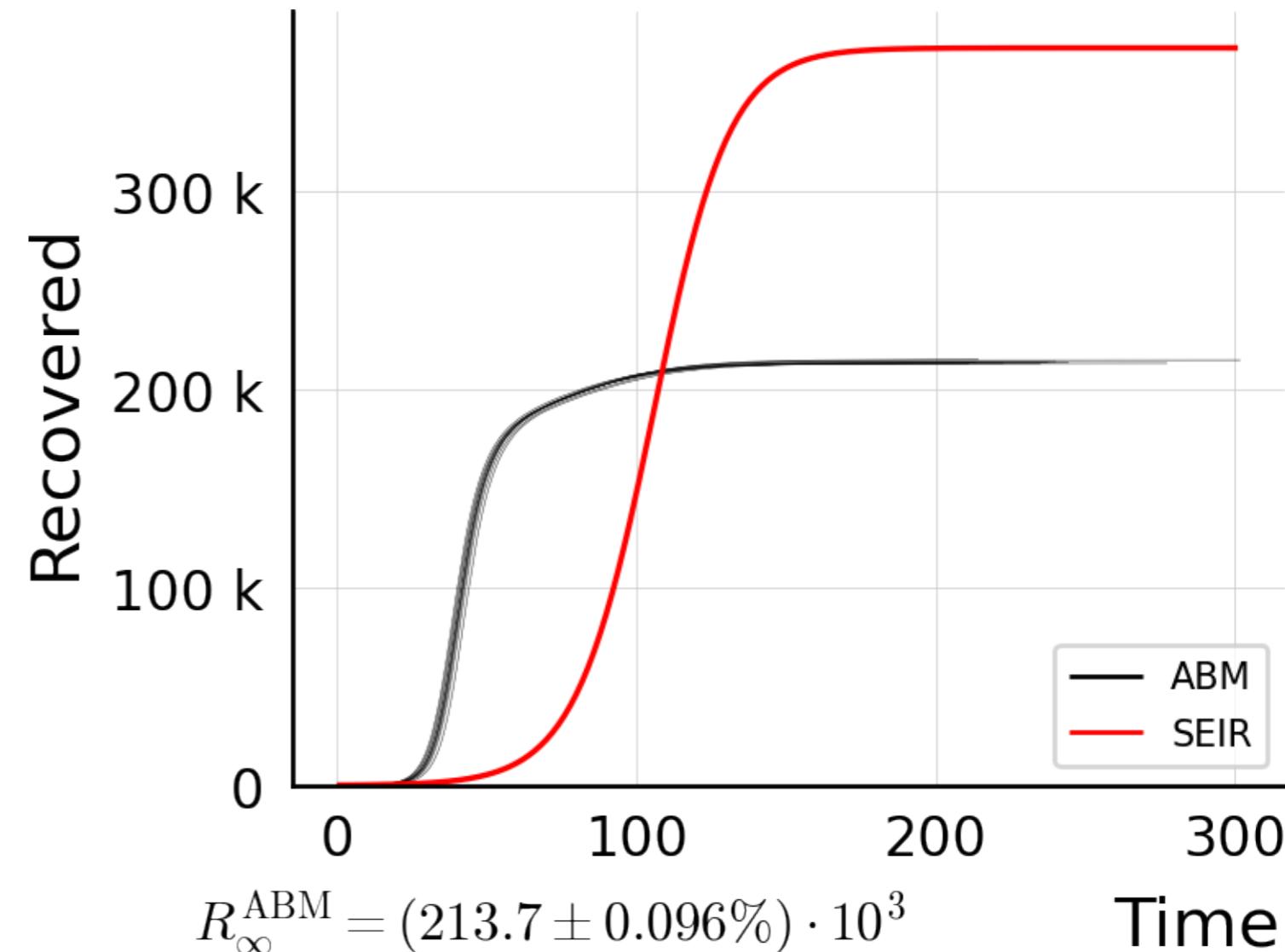
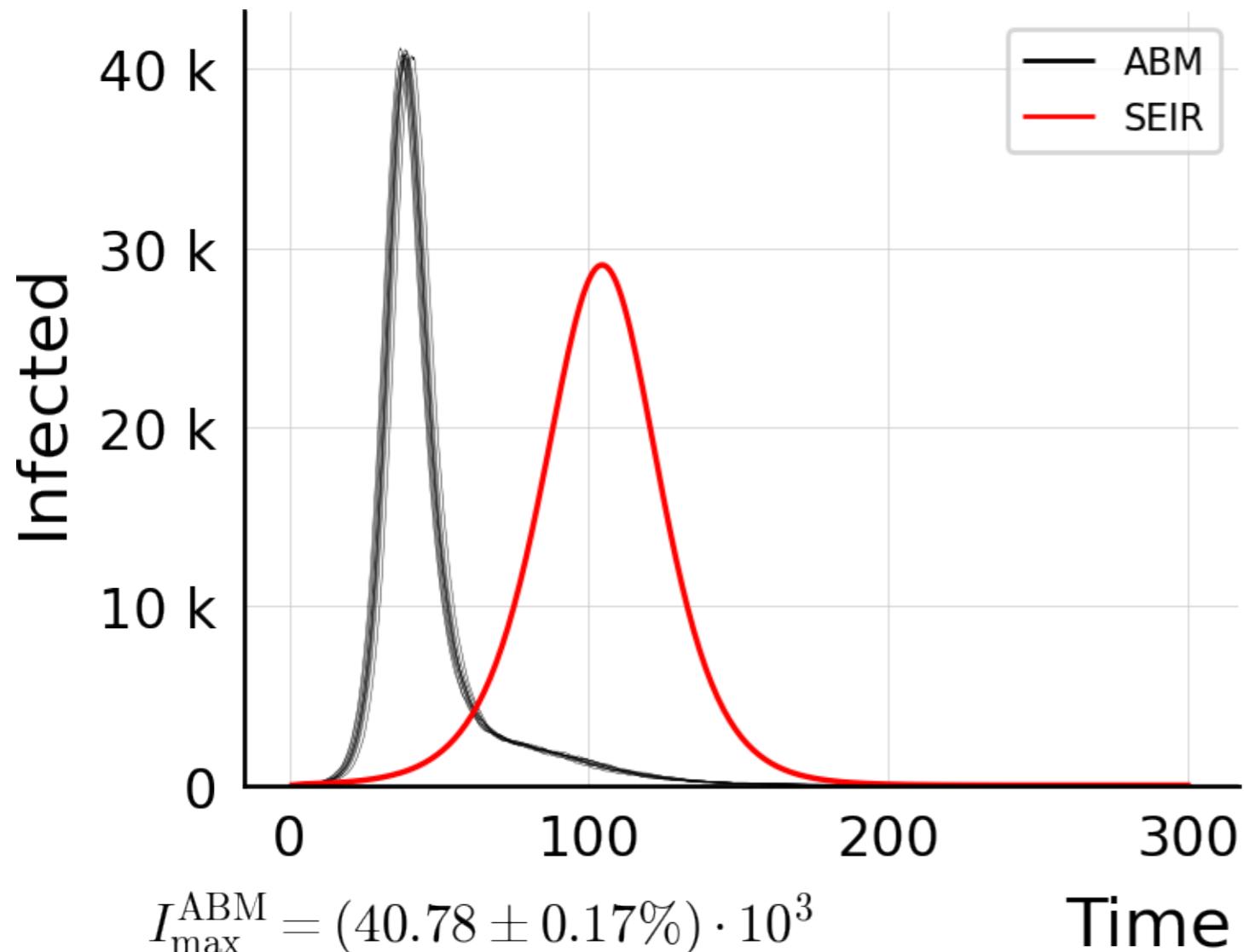
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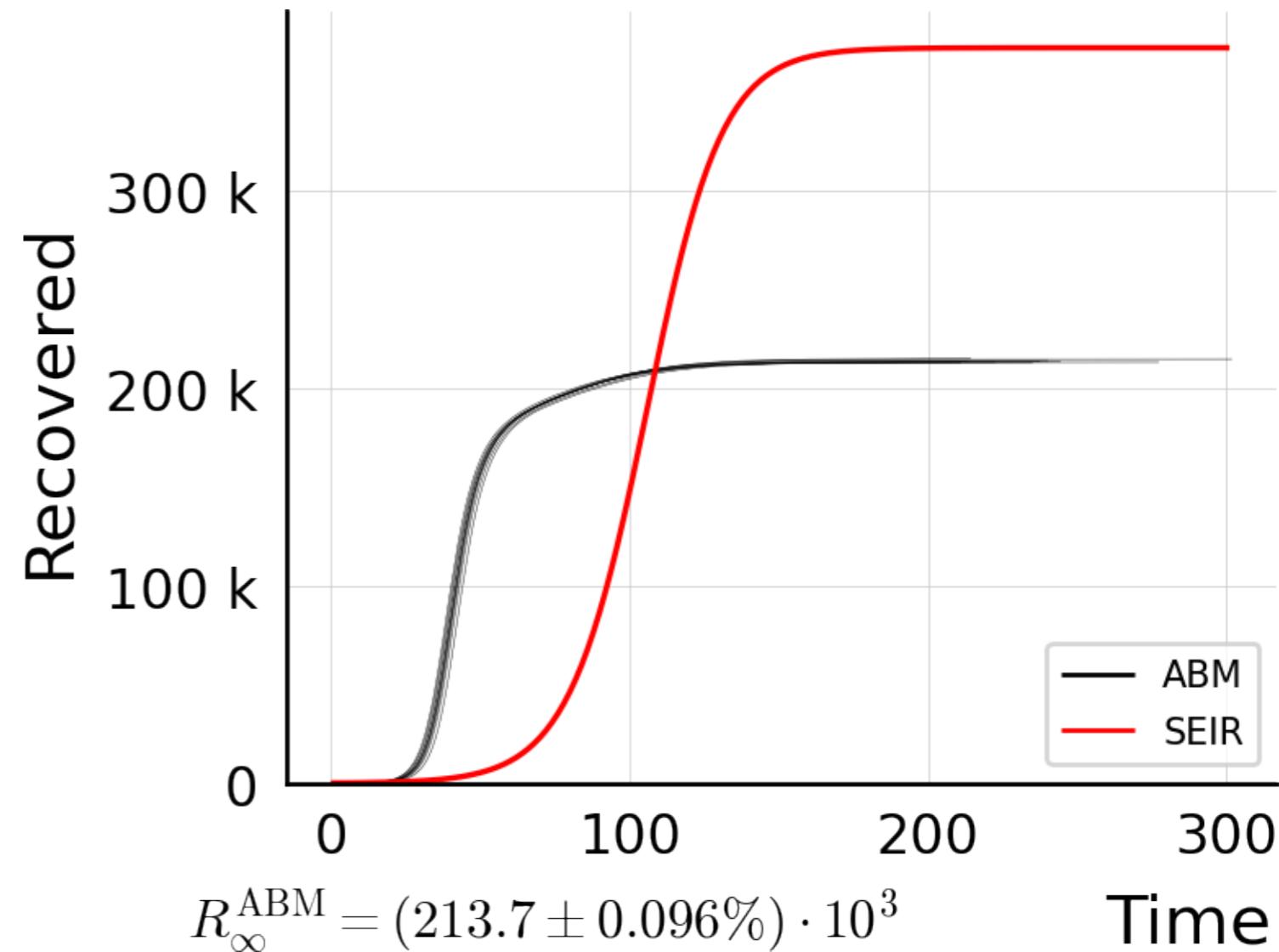
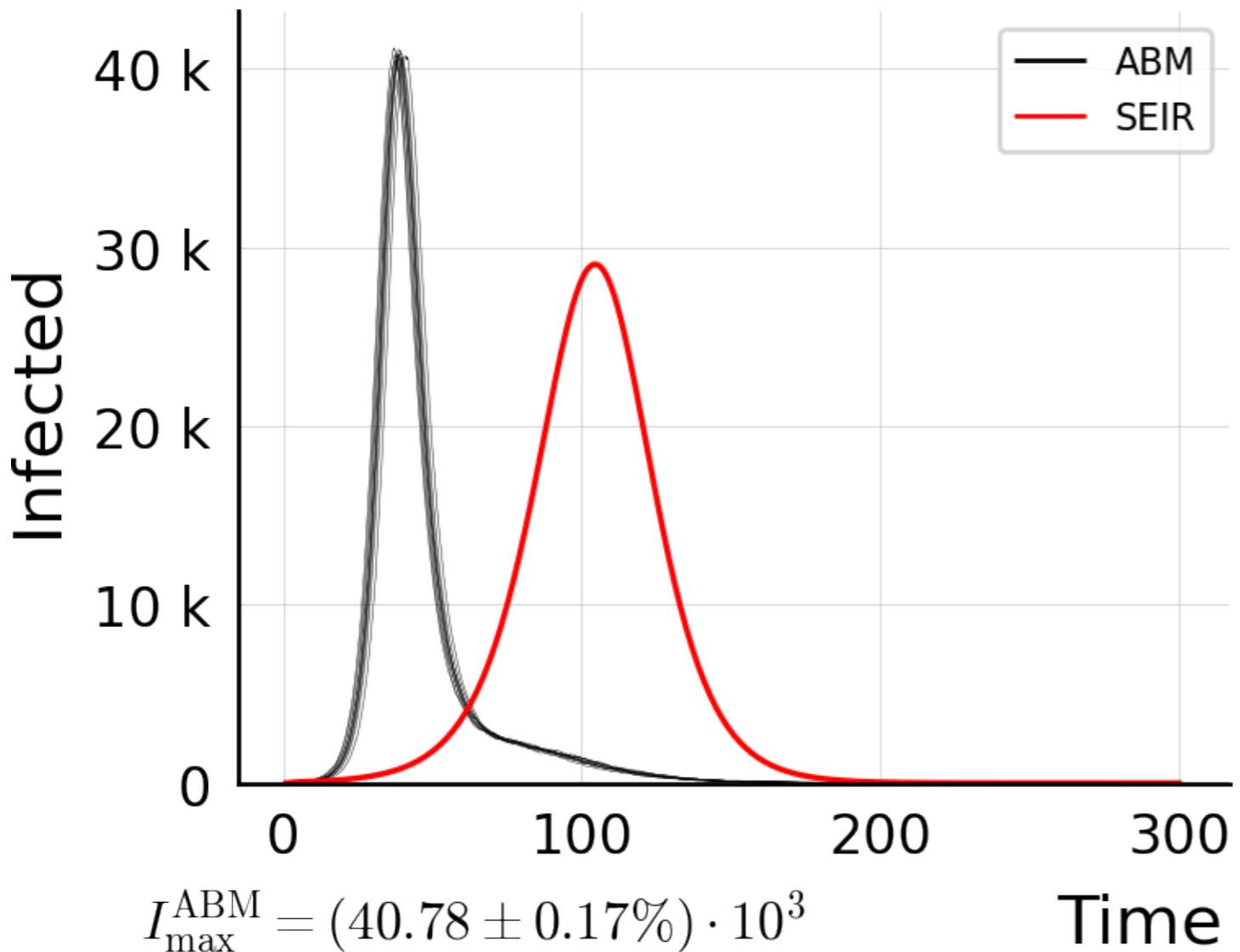
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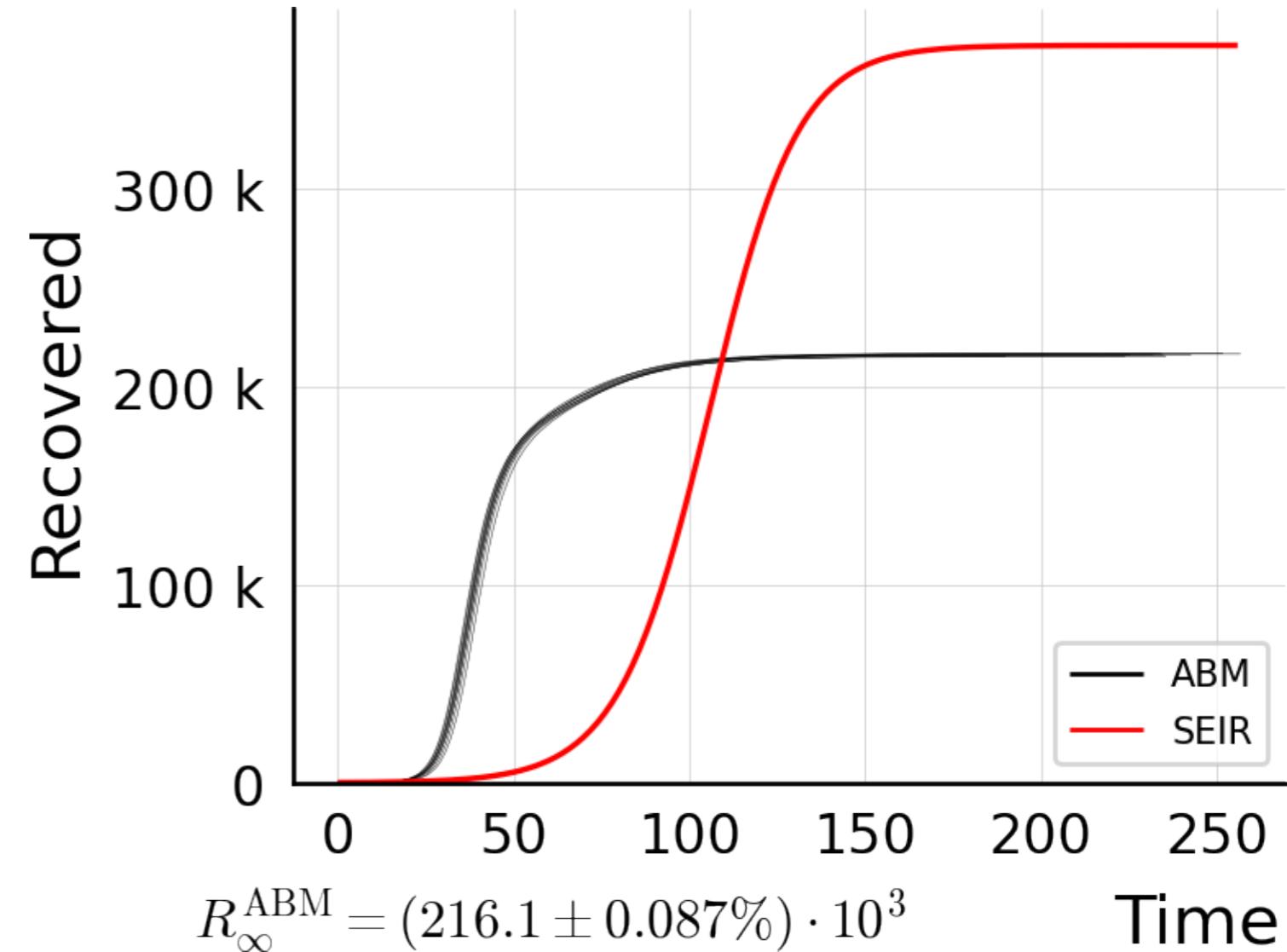
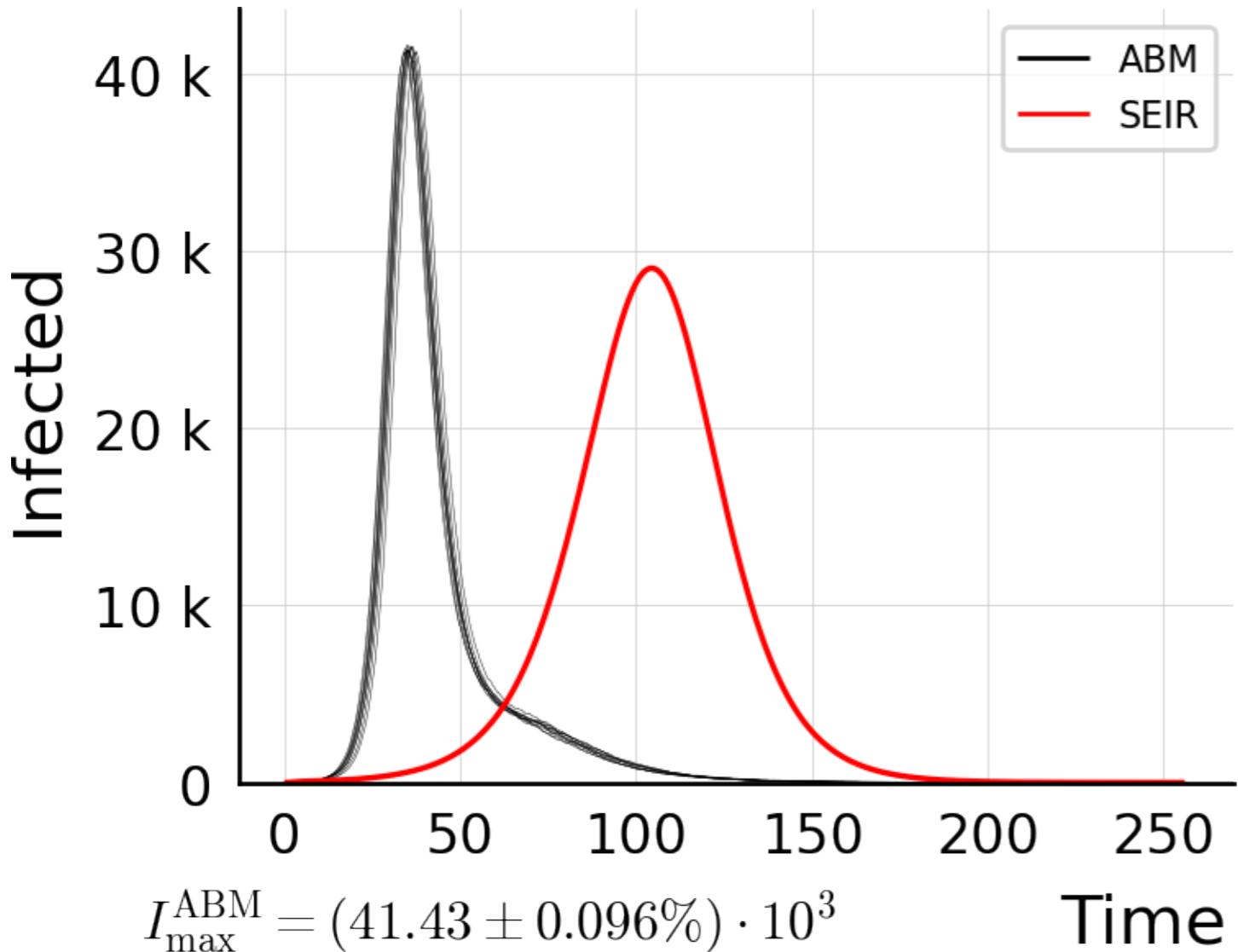
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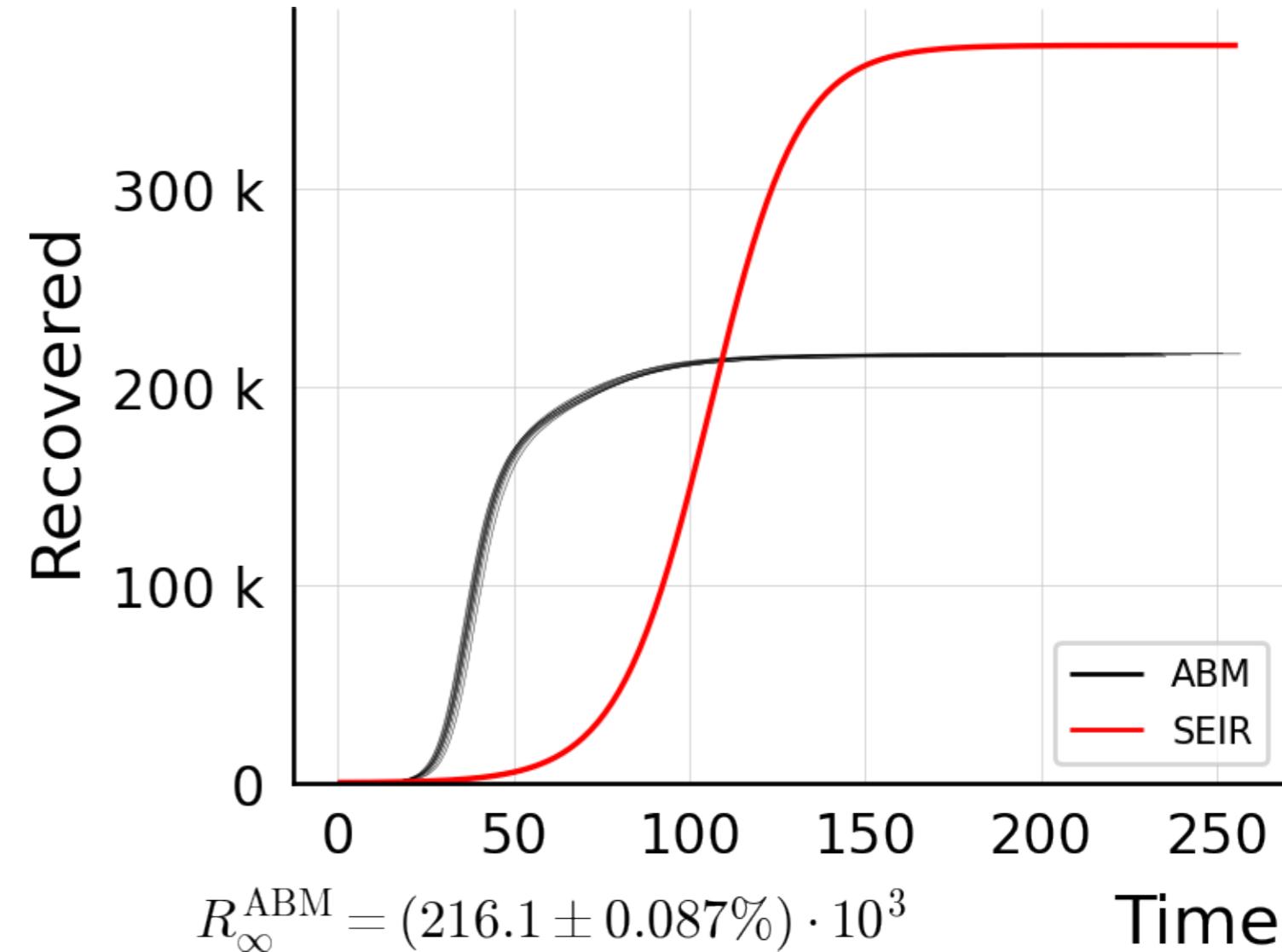
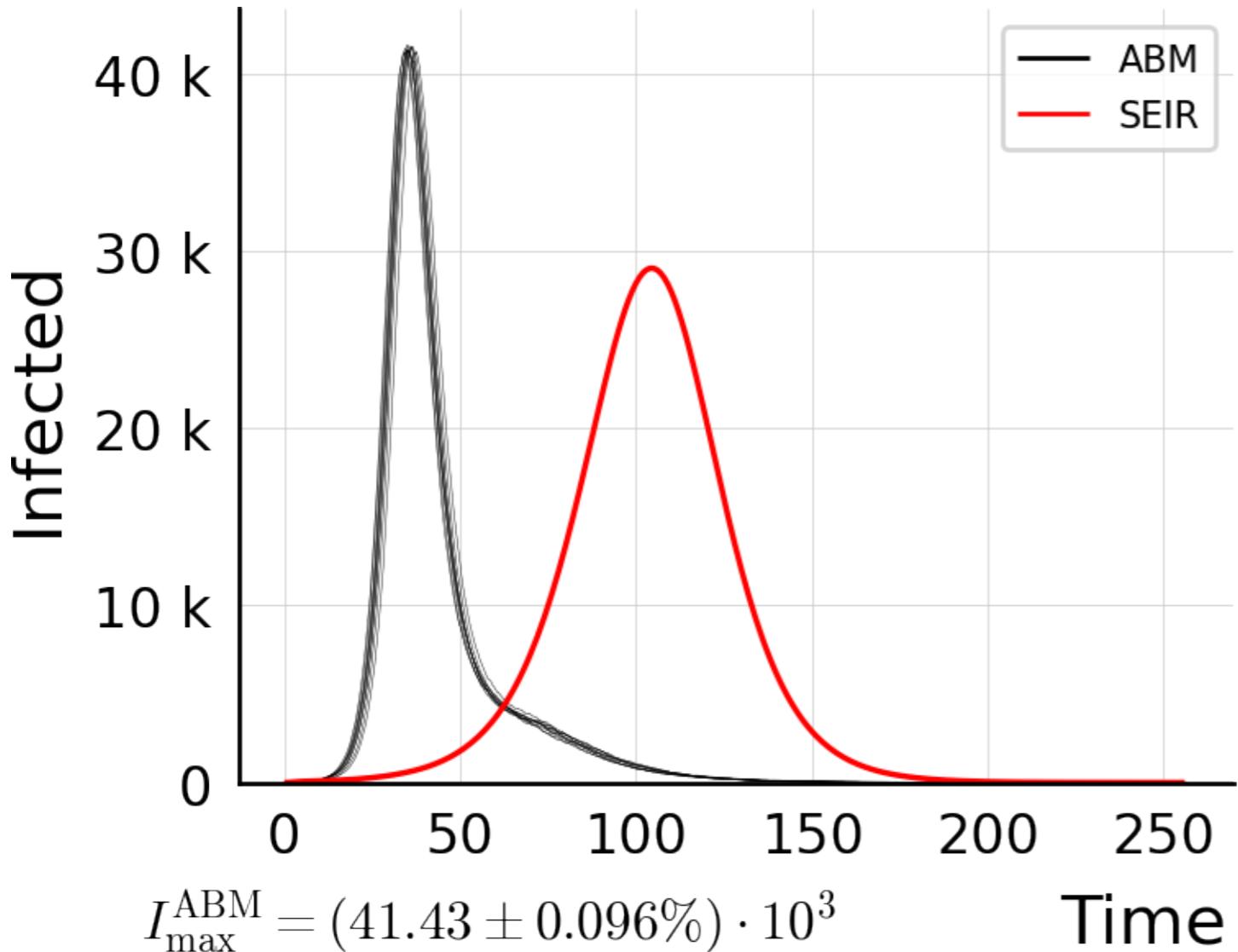
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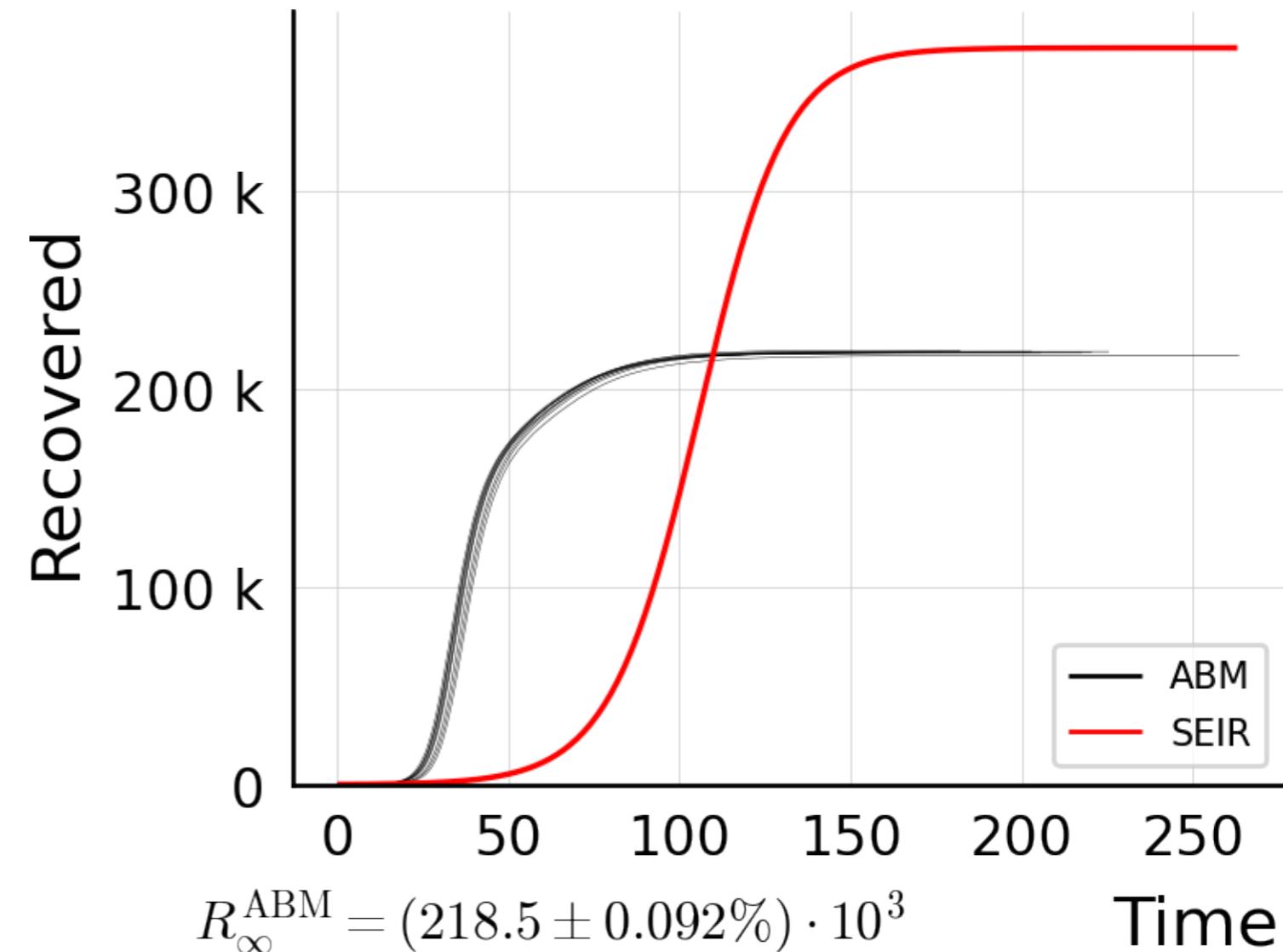
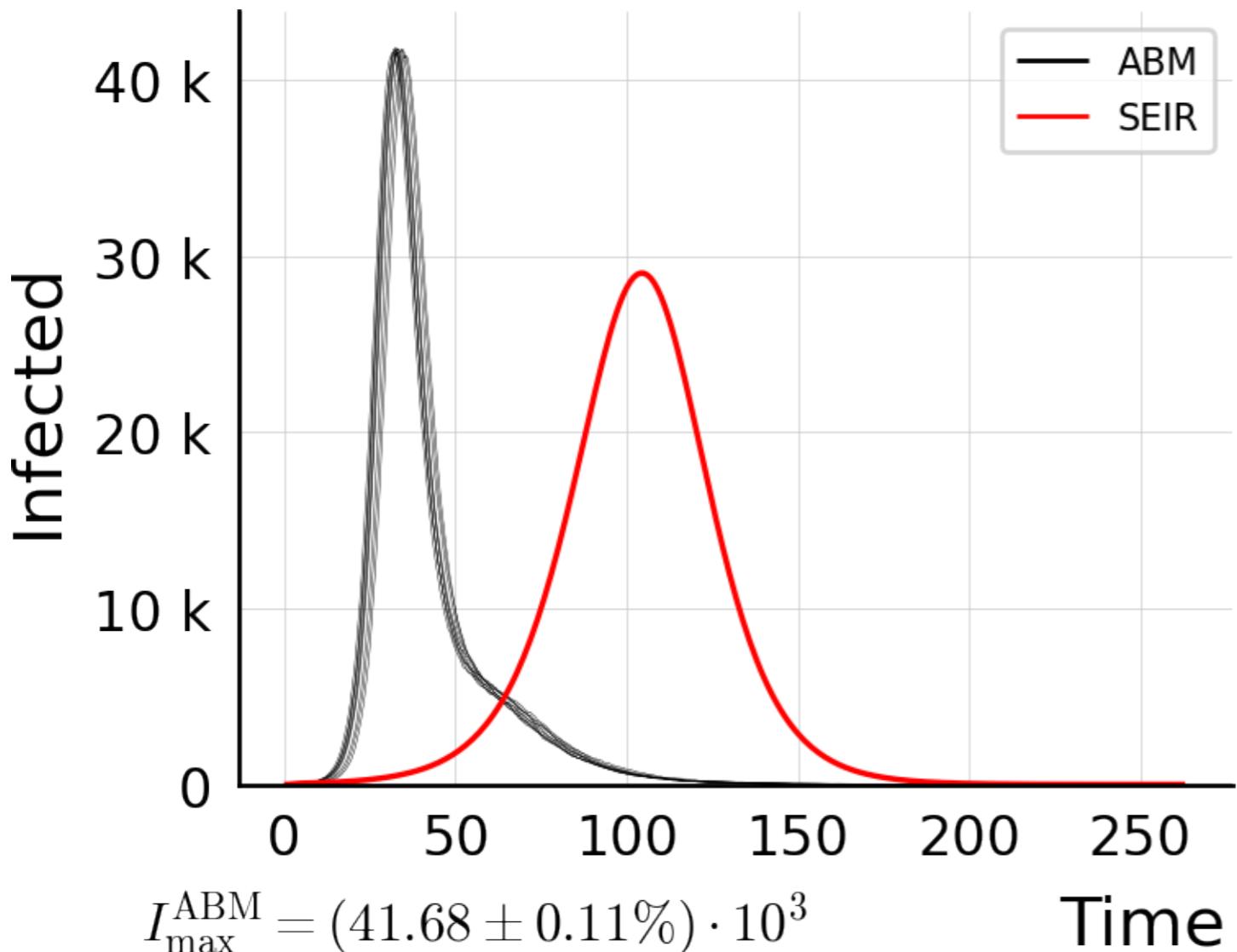
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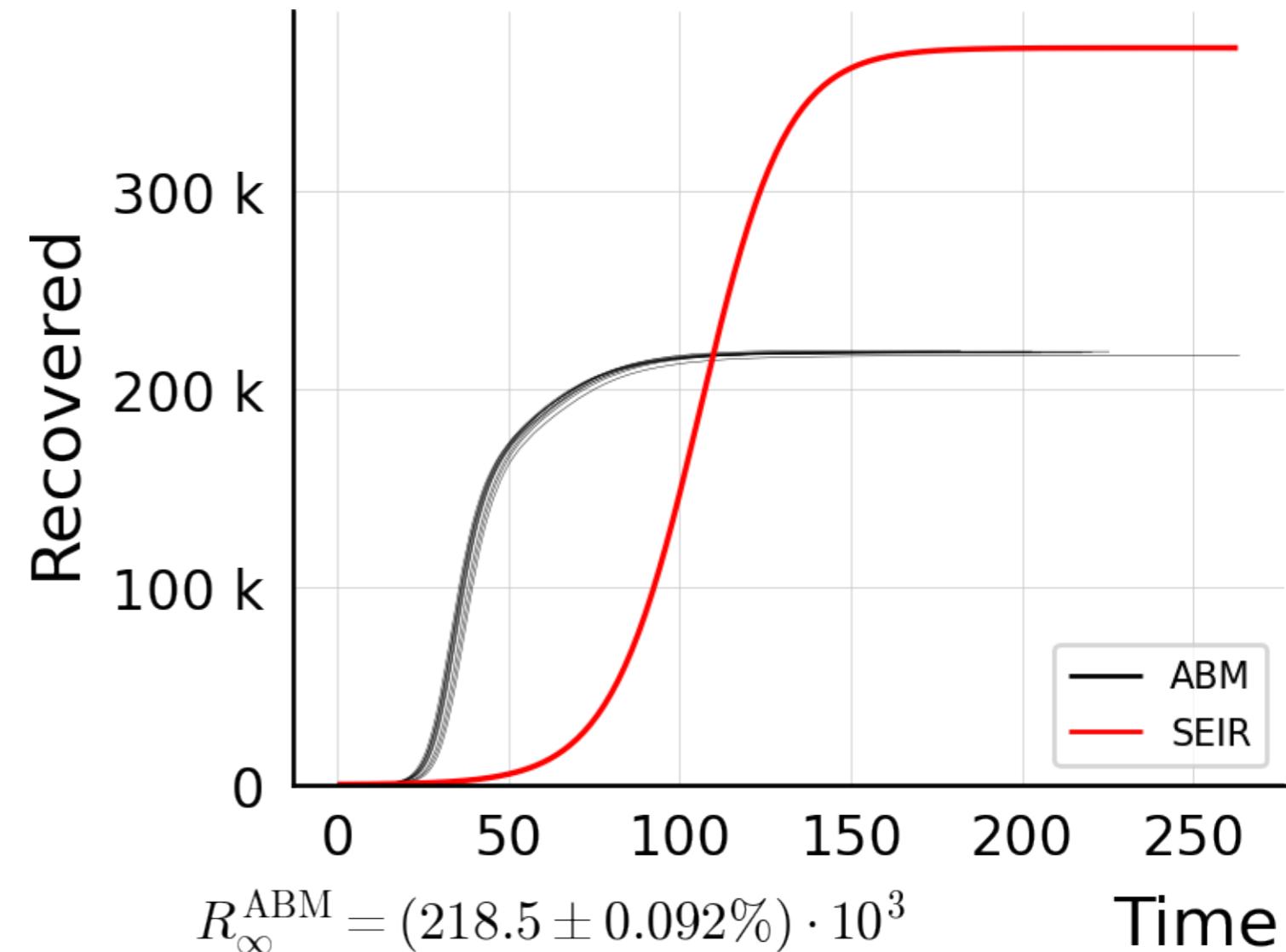
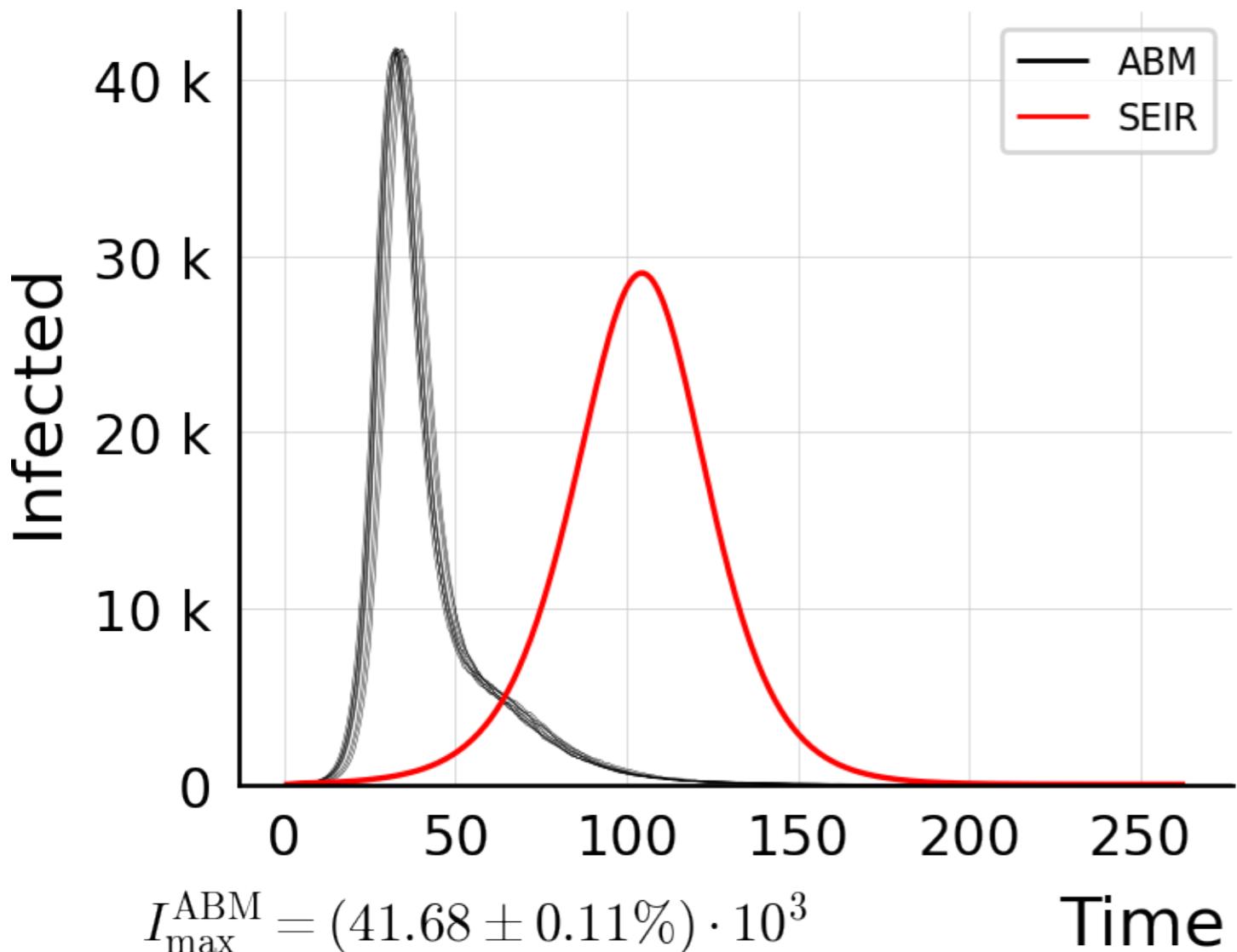
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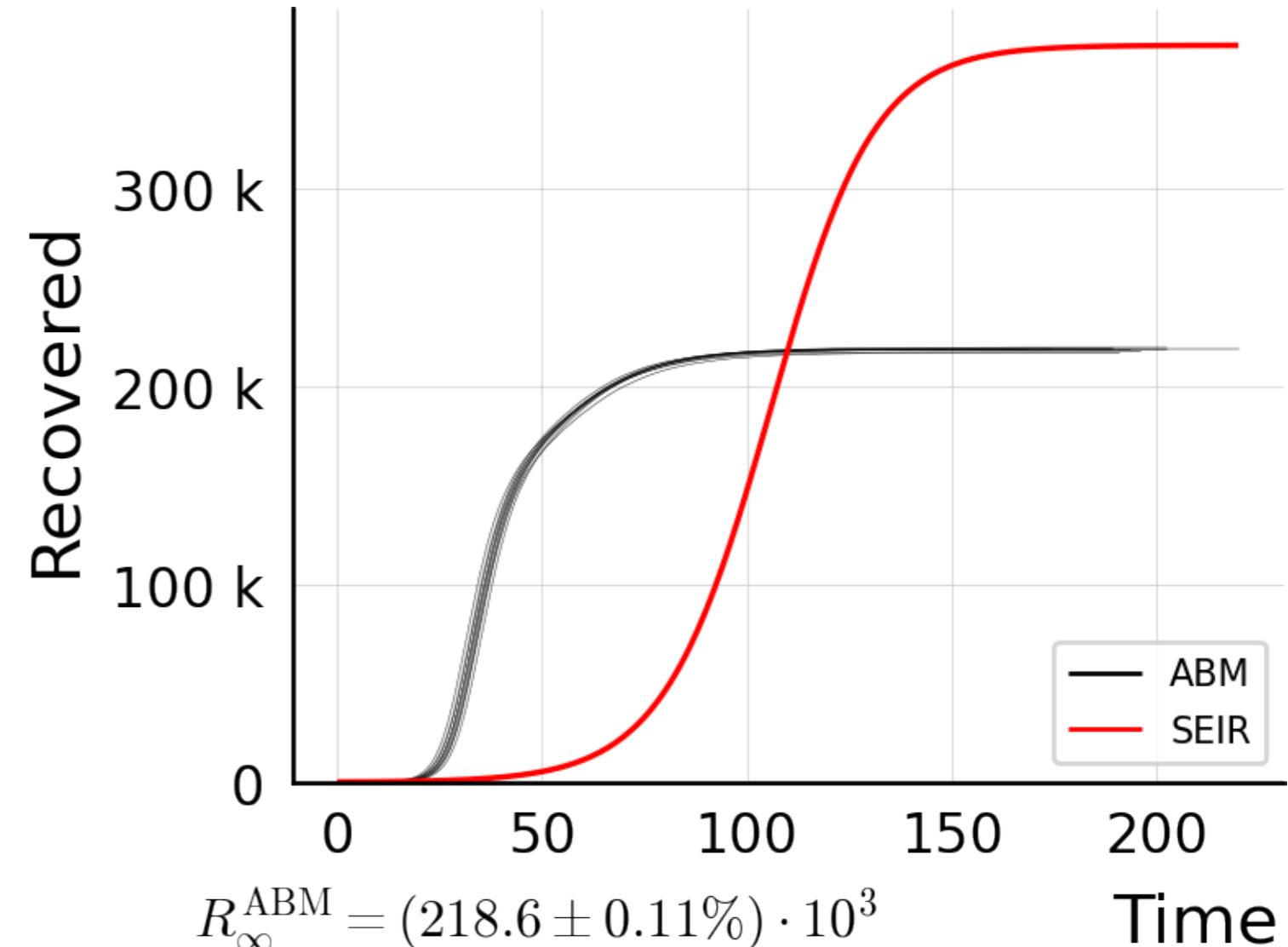
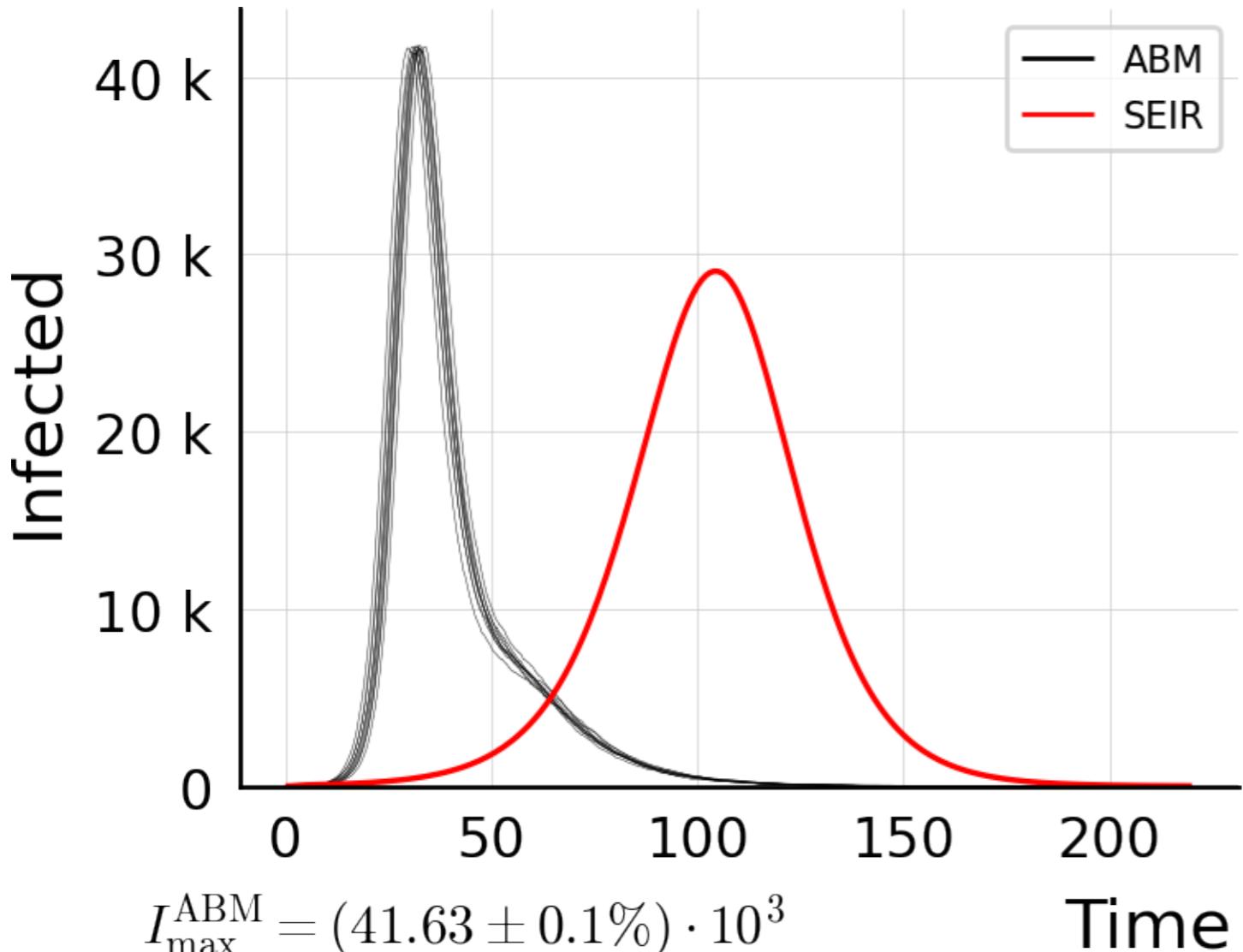
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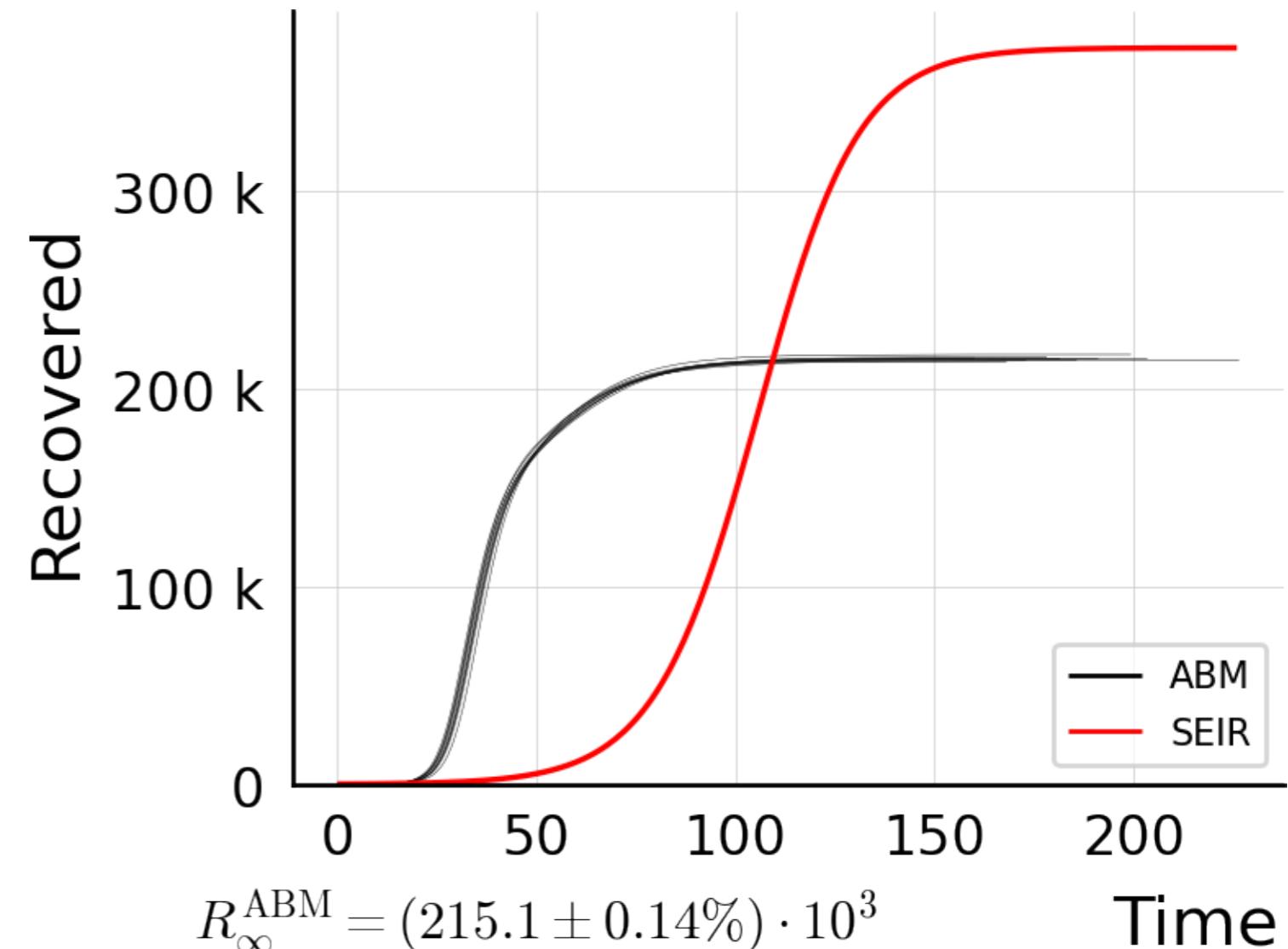
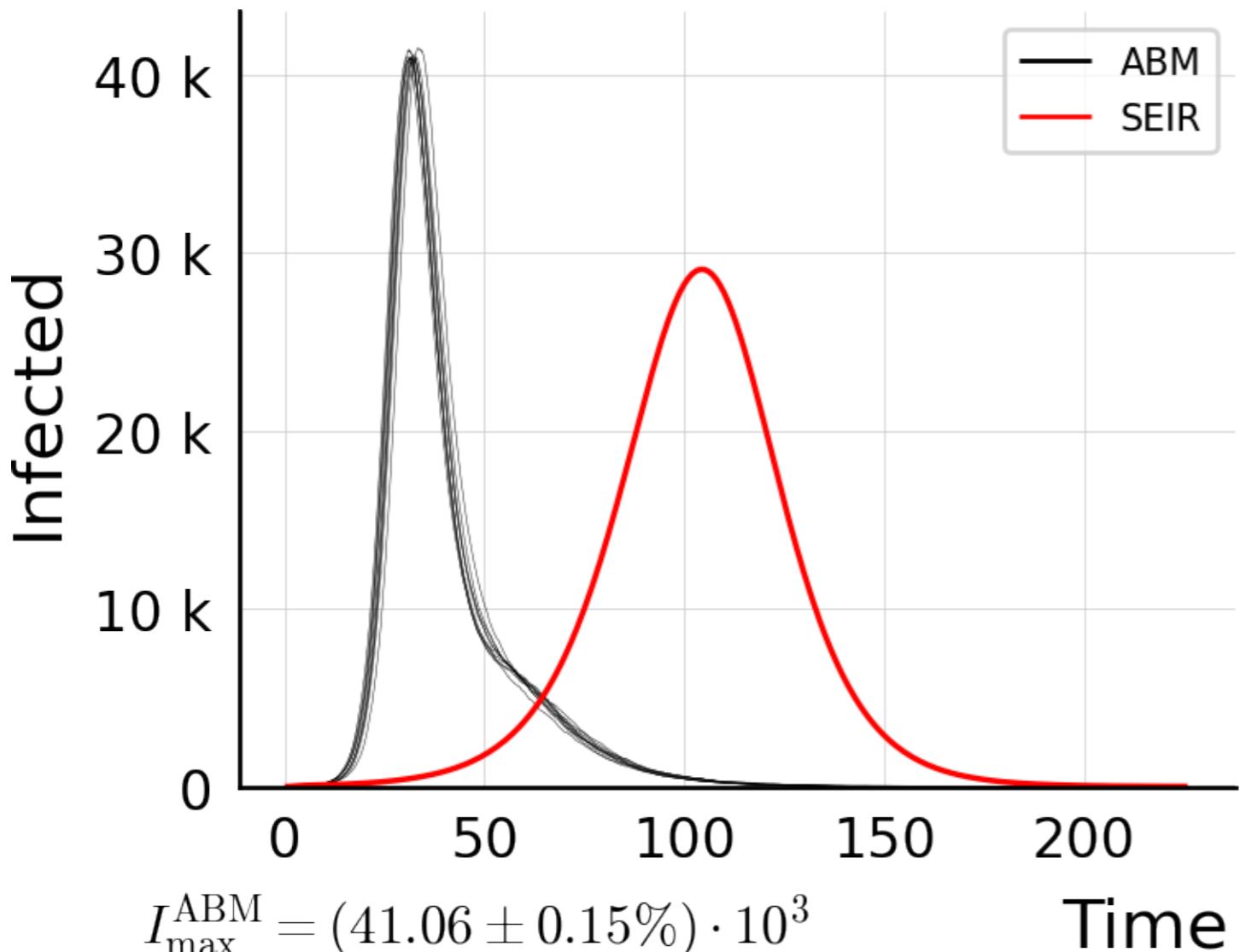
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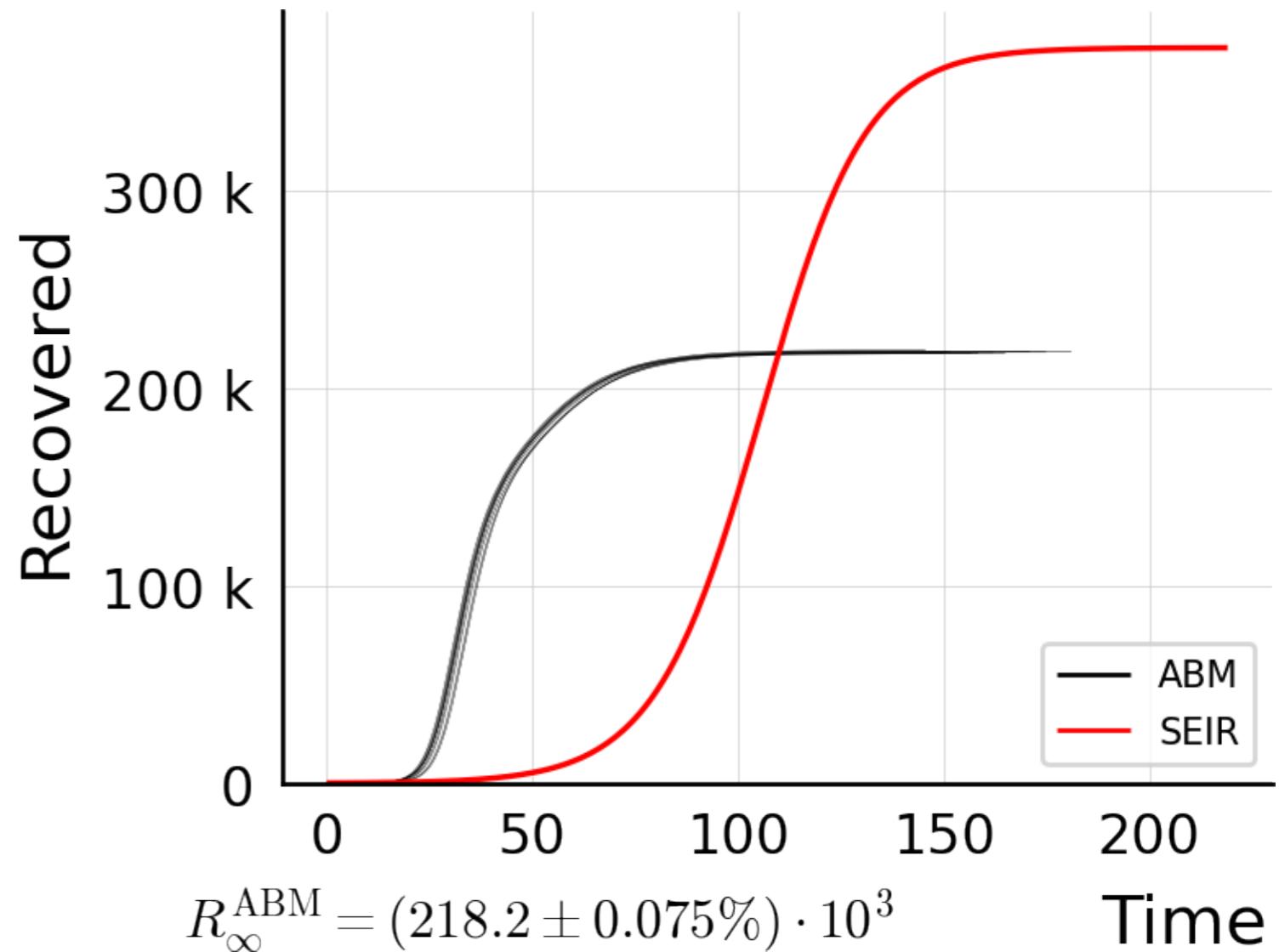
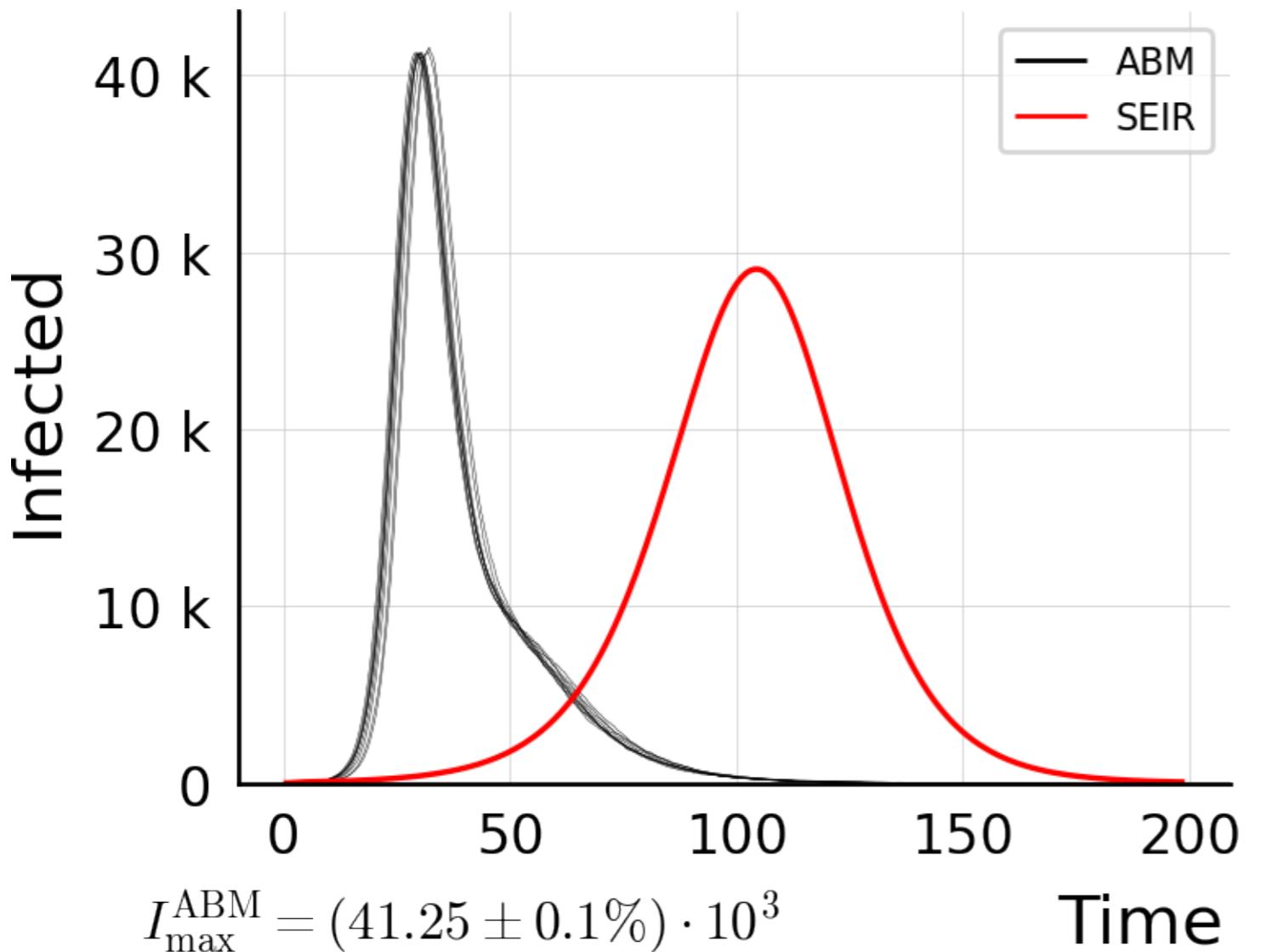
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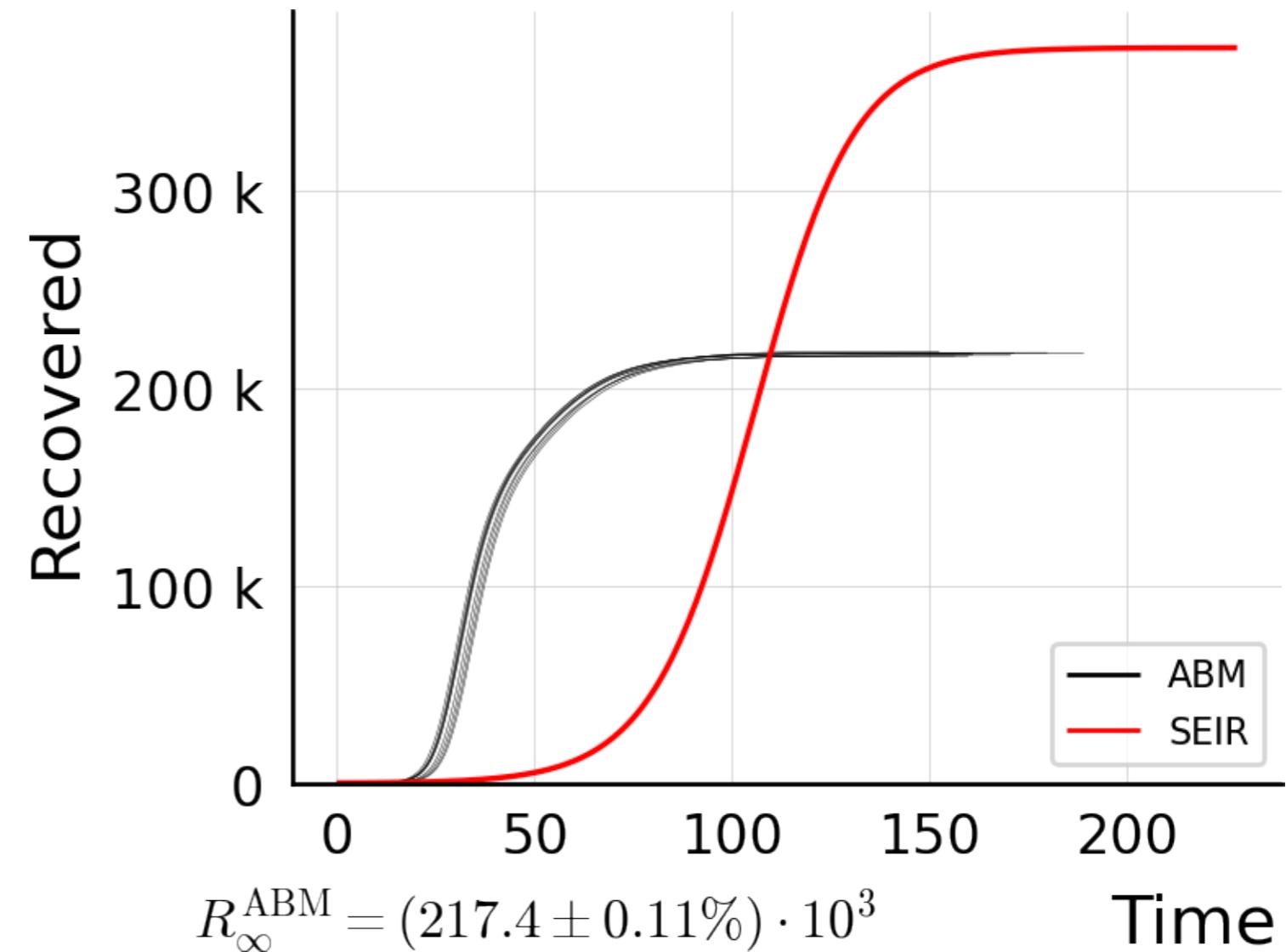
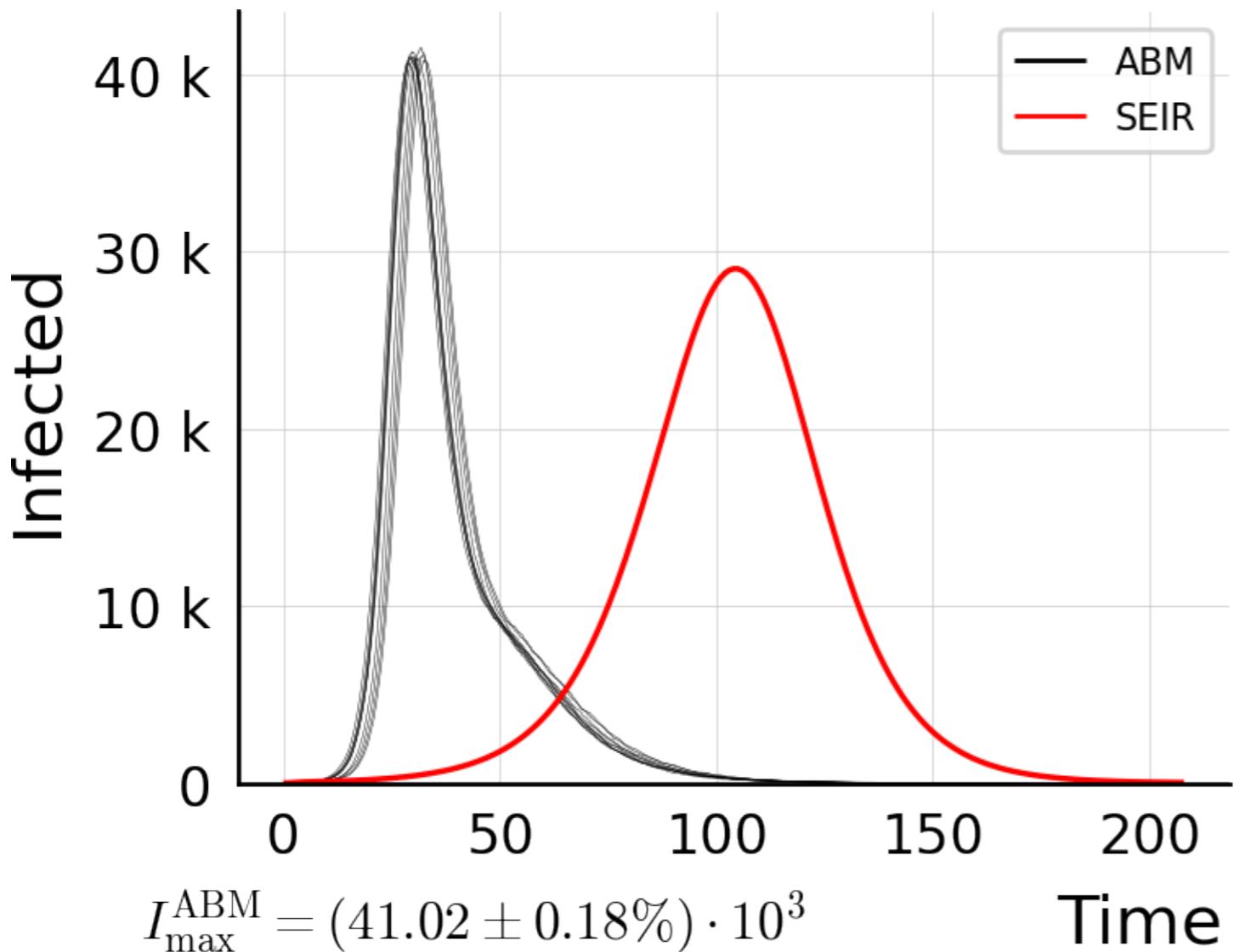
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.75$, $\beta = 0.01$, $\sigma_\beta = 1.0$
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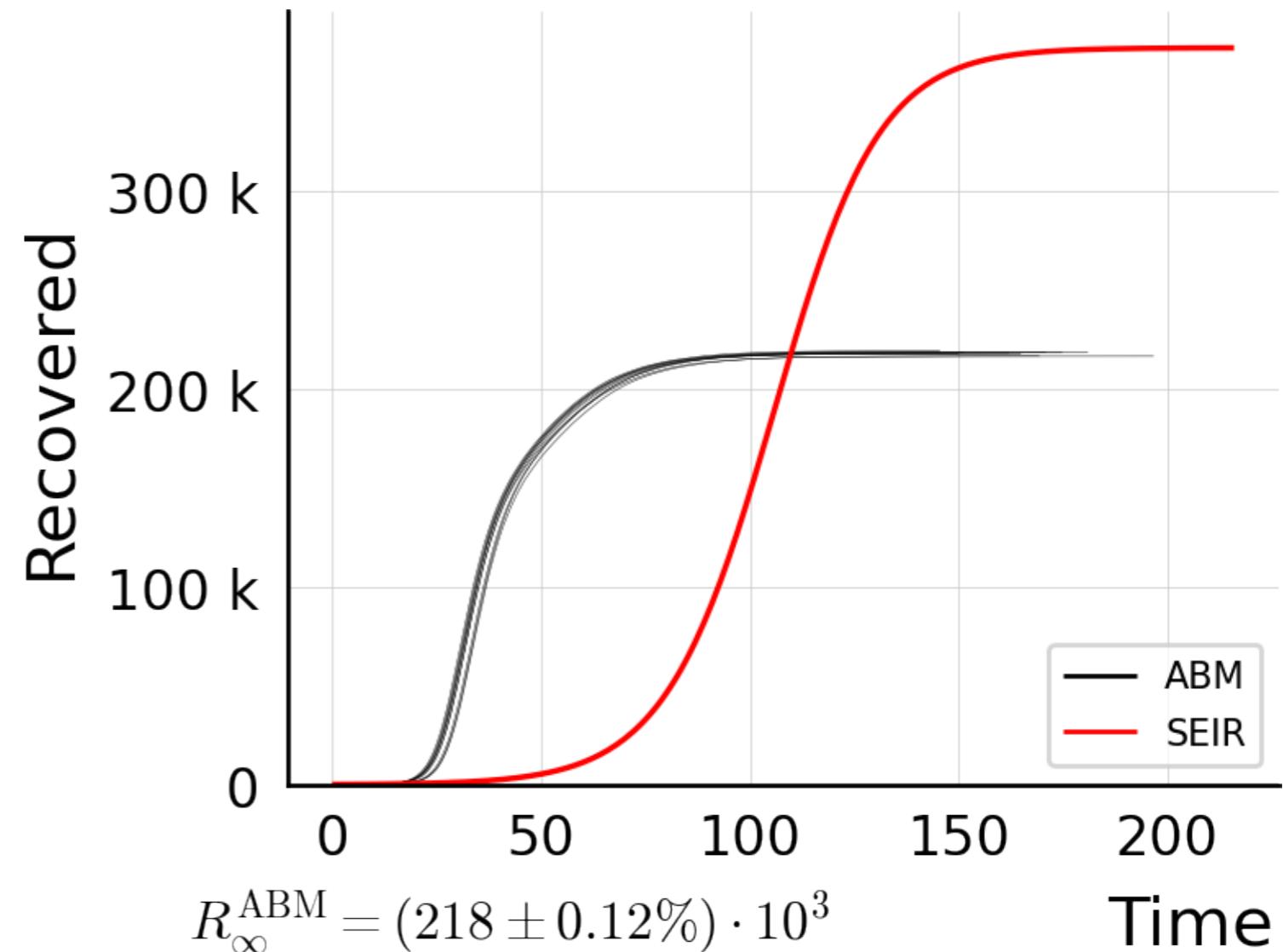
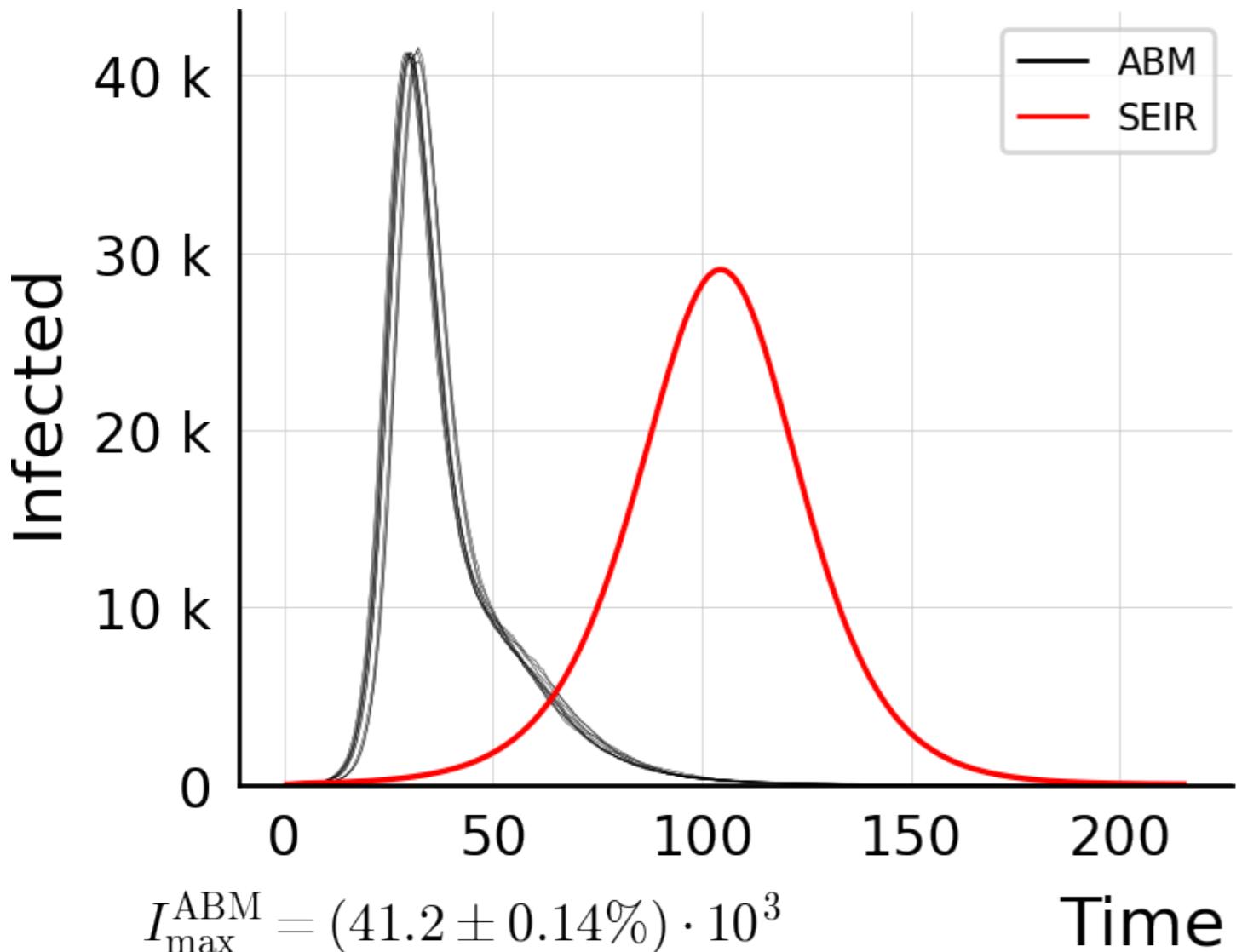
$N_{\text{tot}} = 580K$, $N_{\text{init}} = 100$, $\rho = 0.1$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 1.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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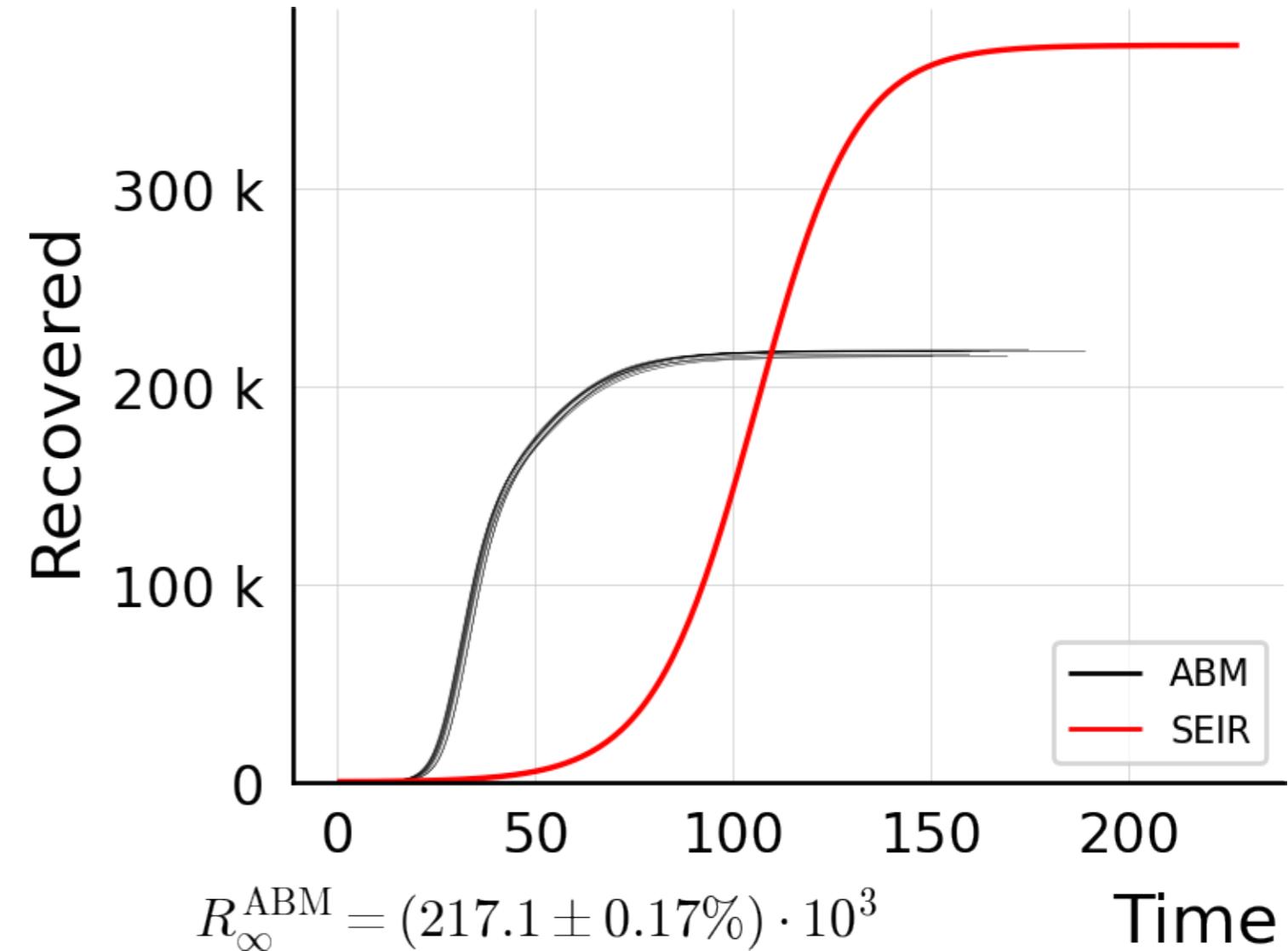
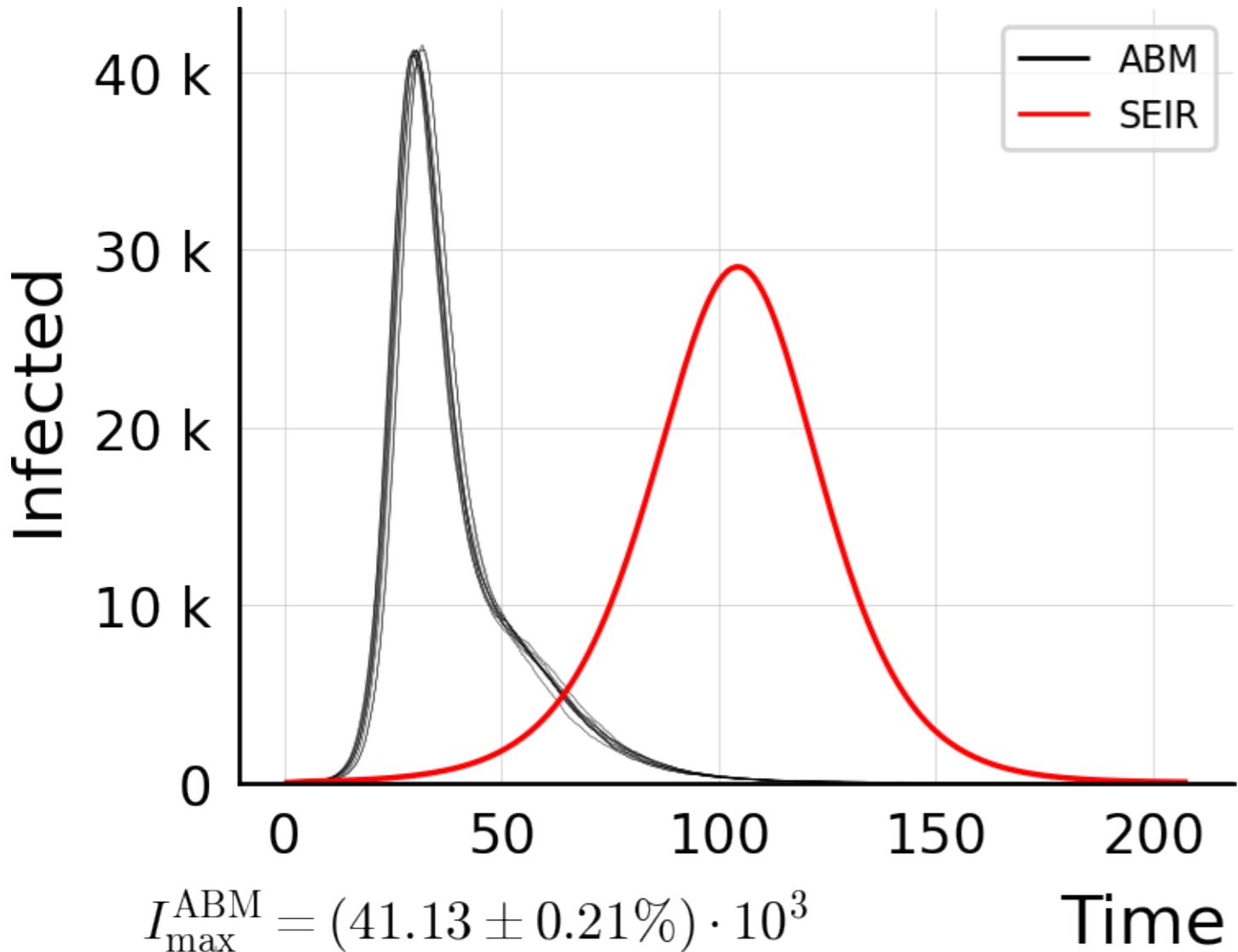
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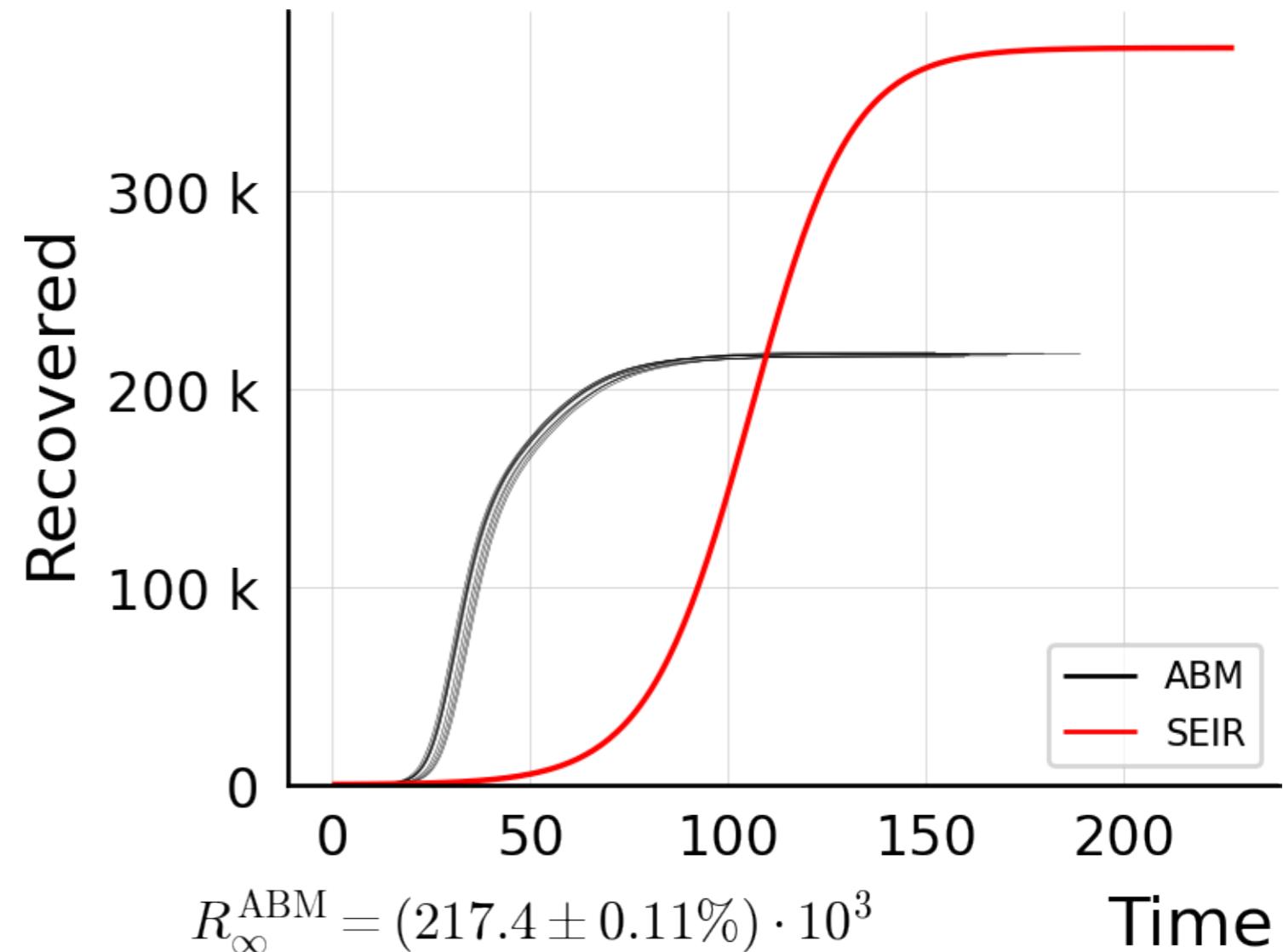
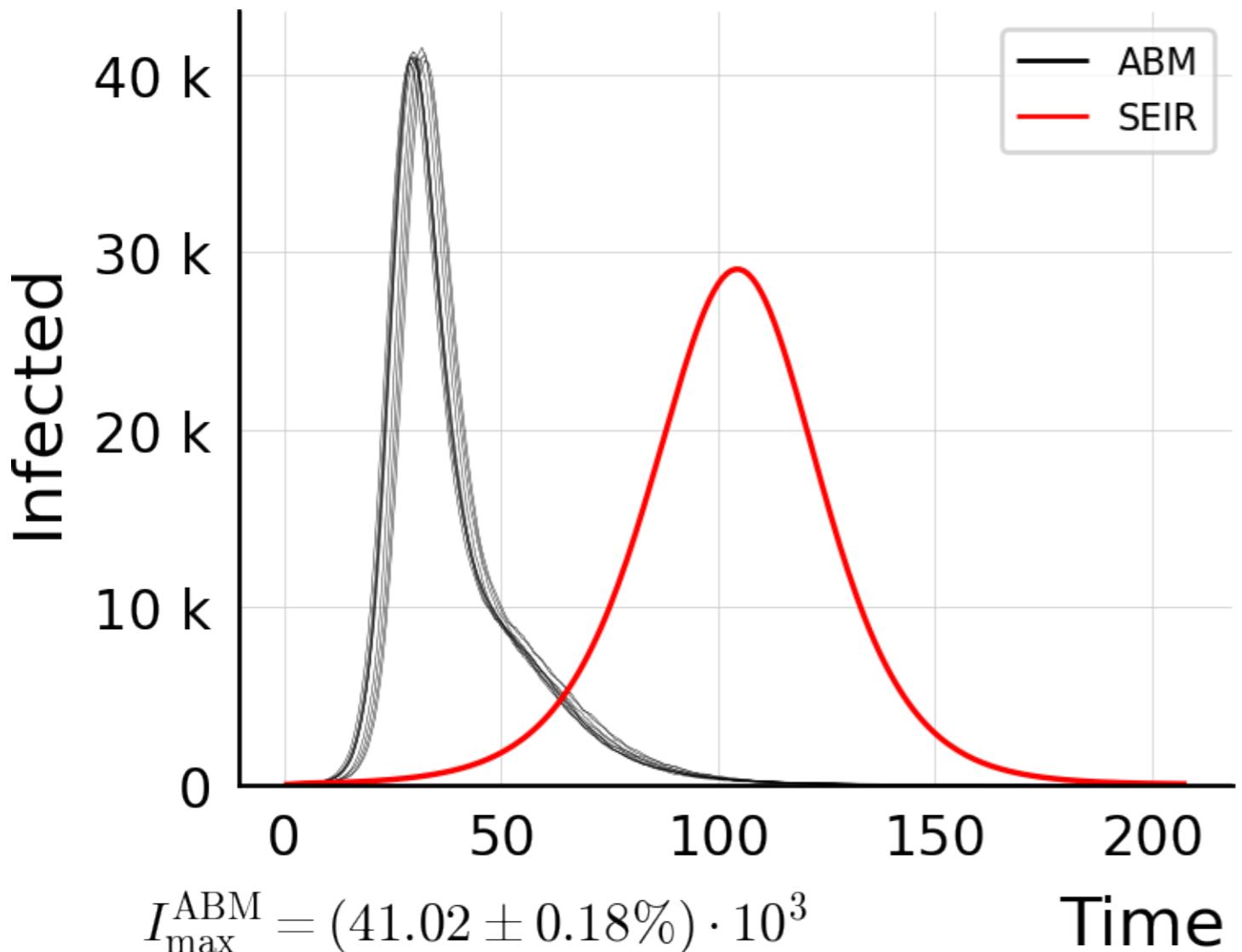
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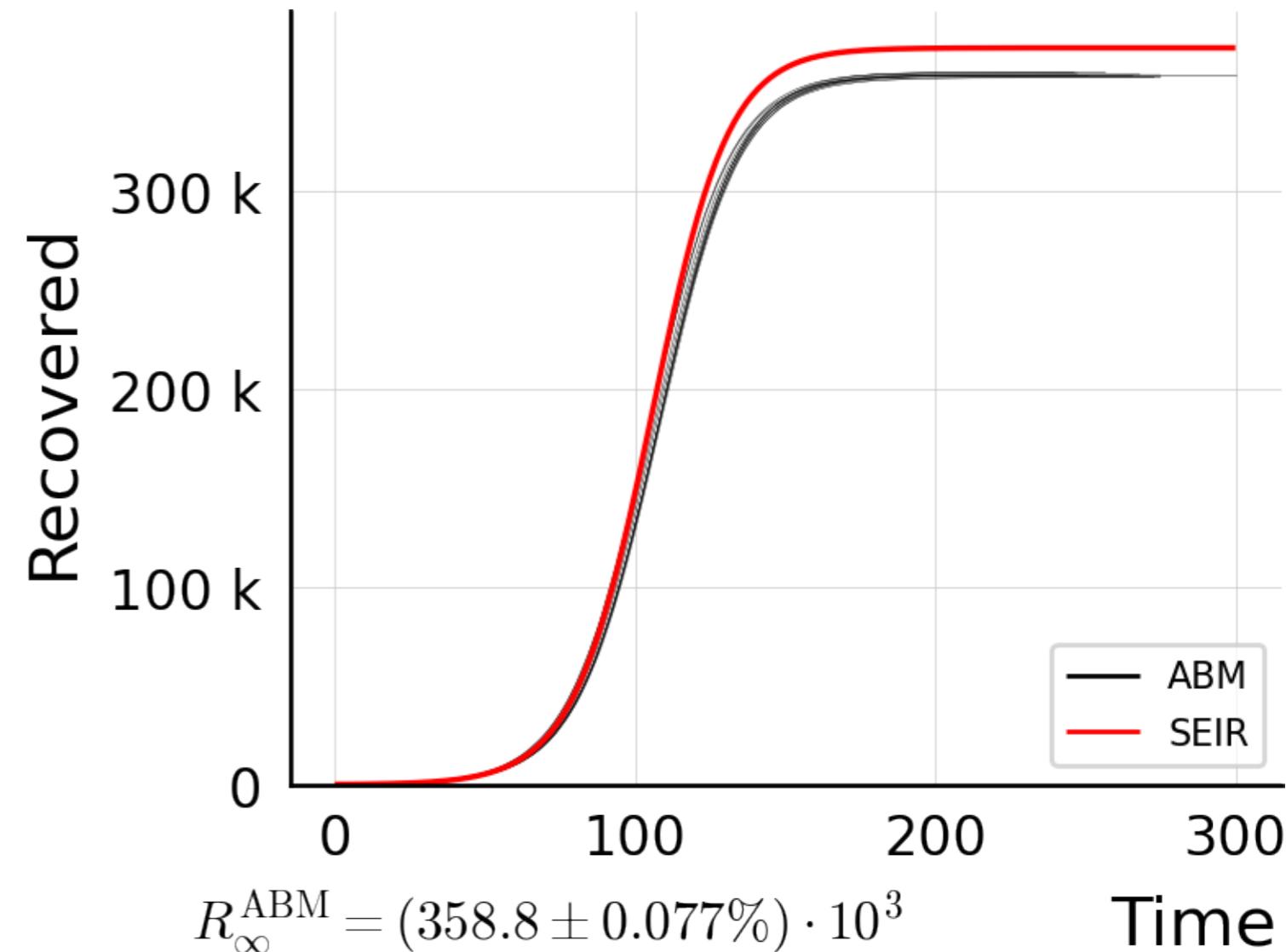
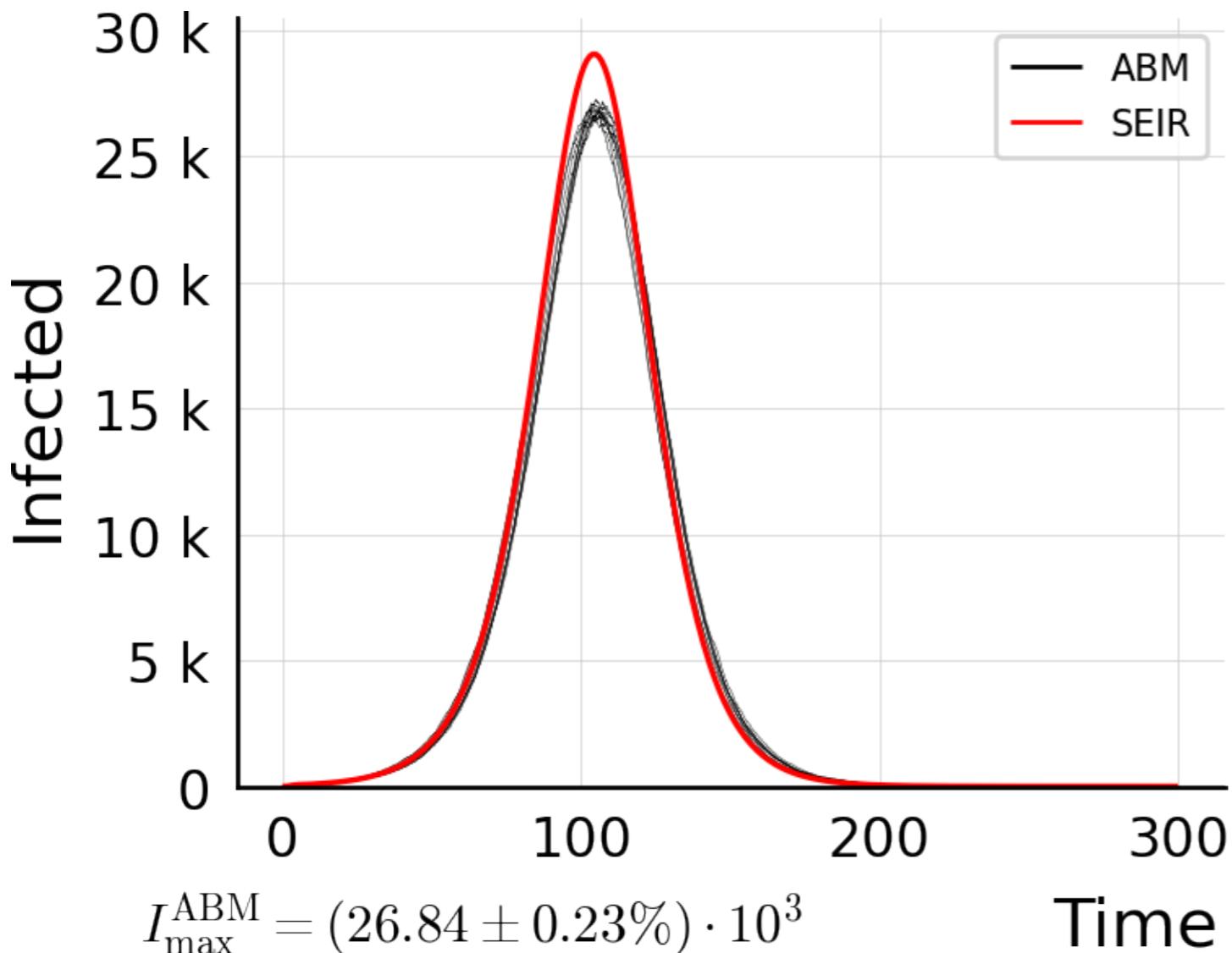
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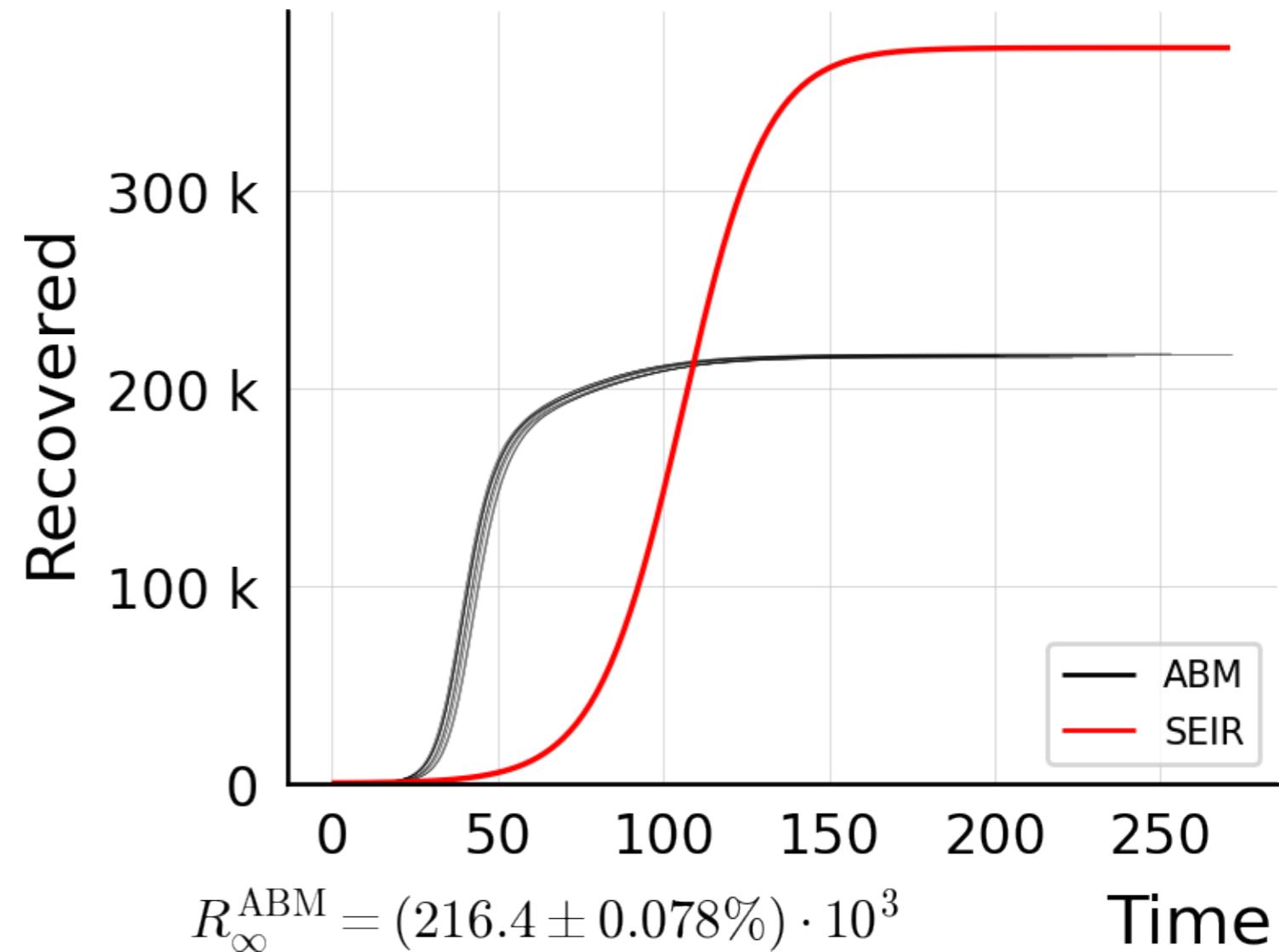
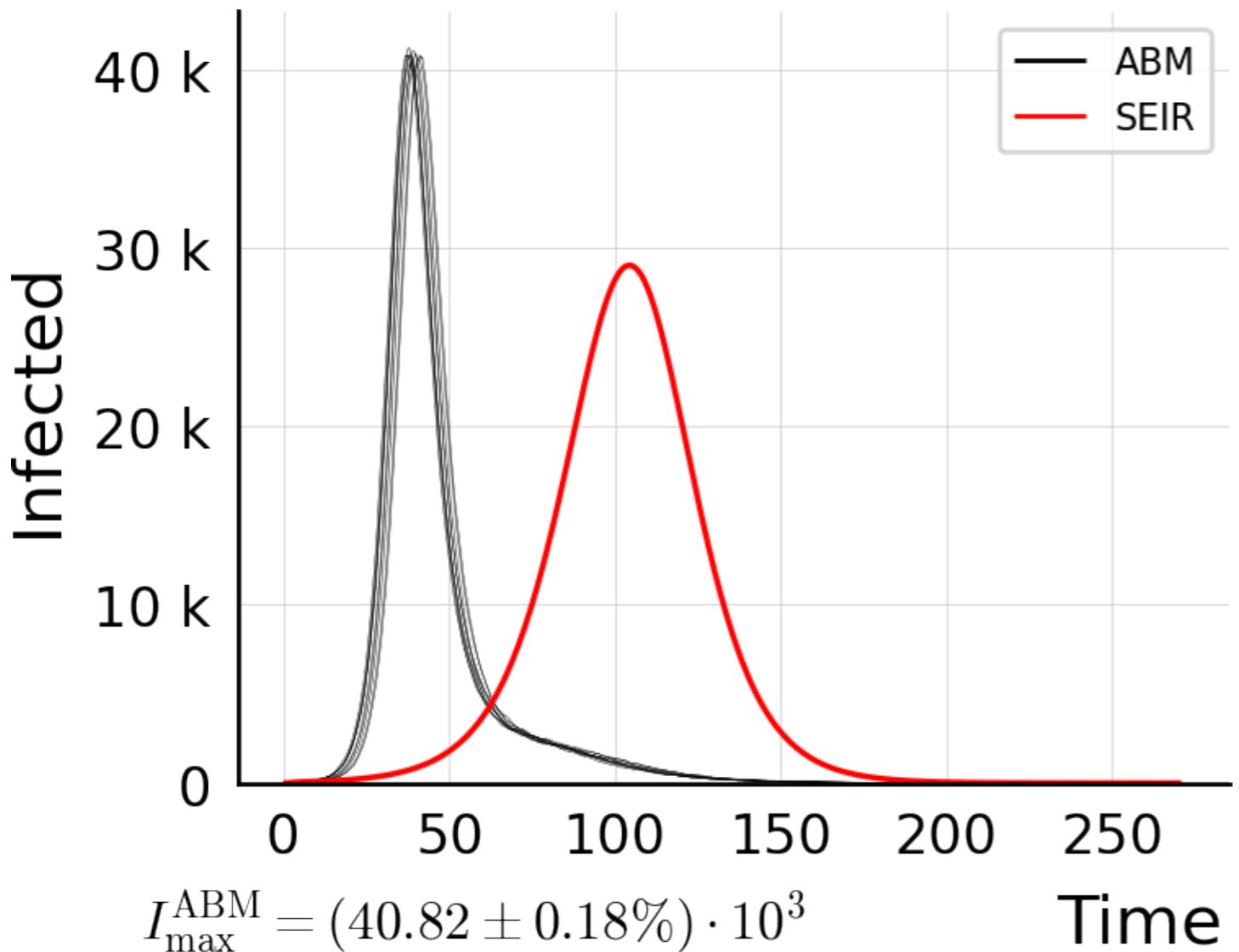
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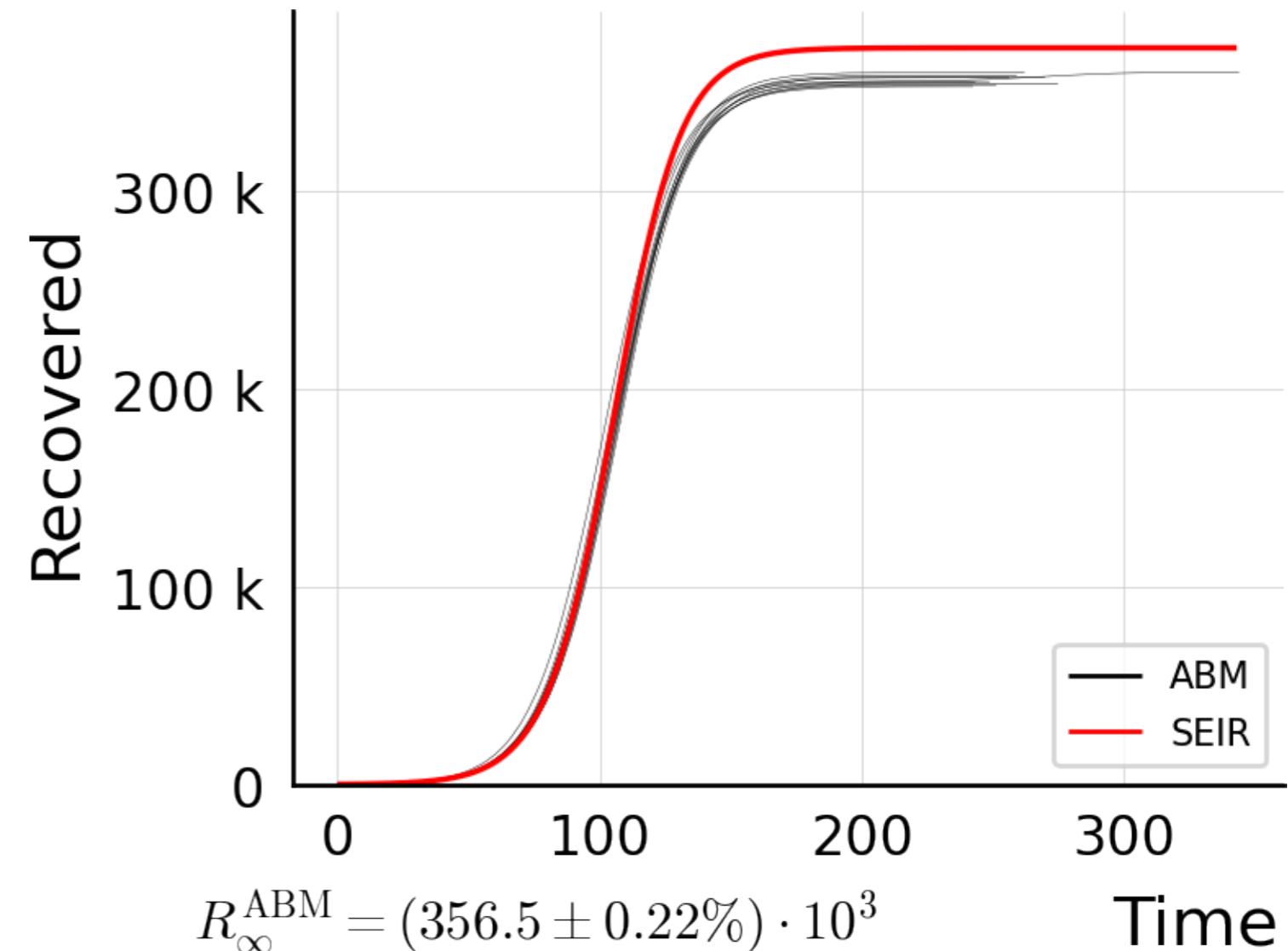
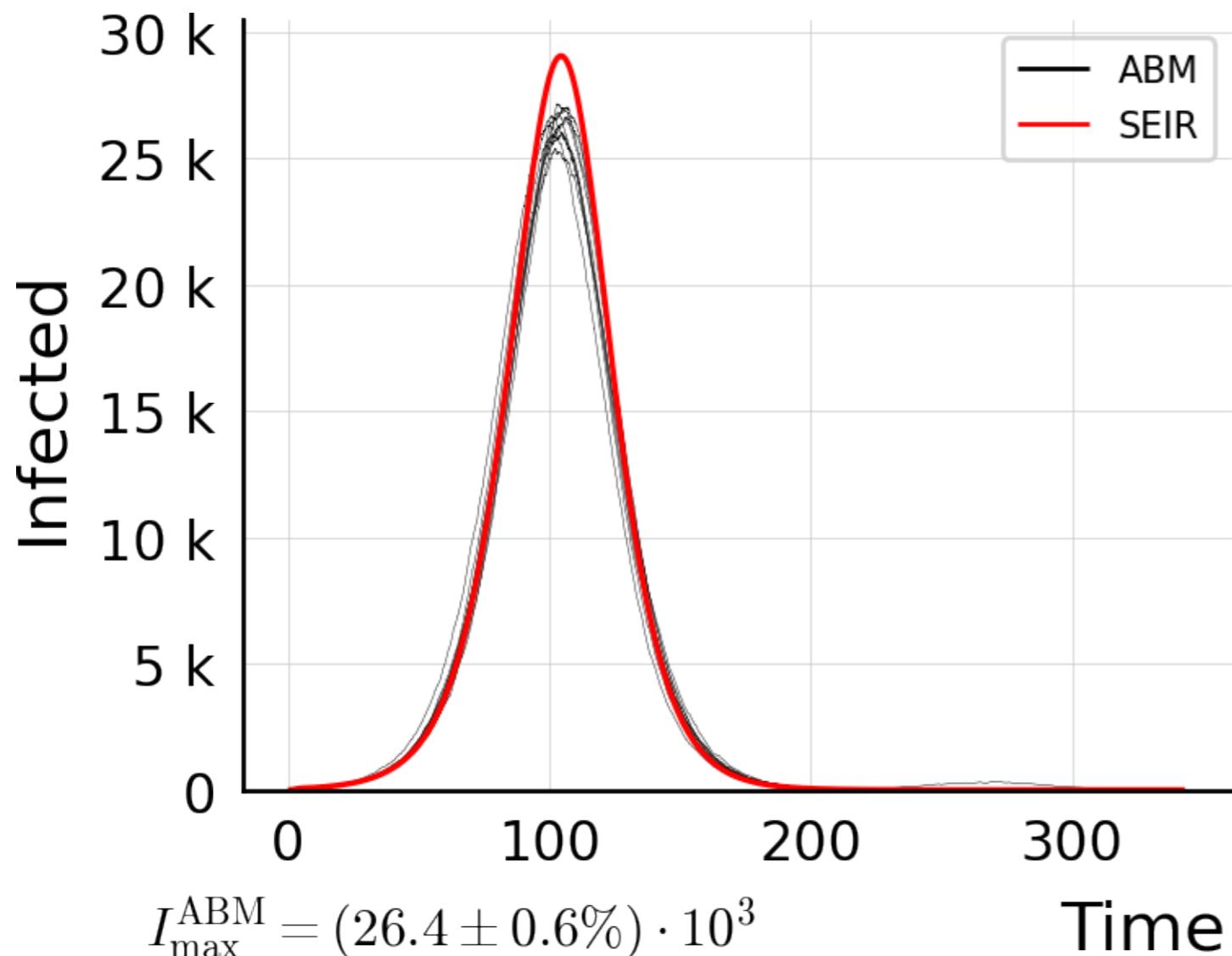
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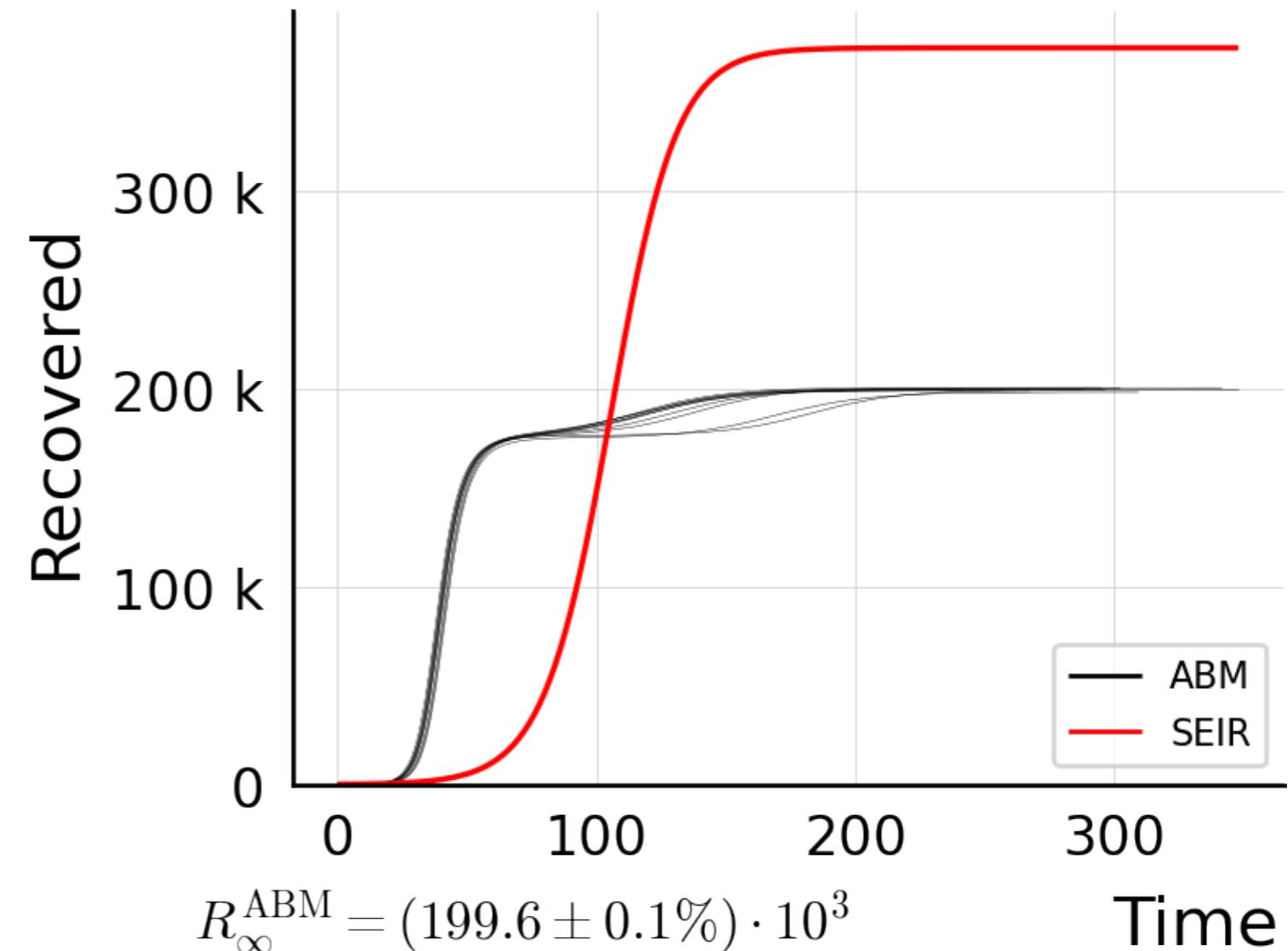
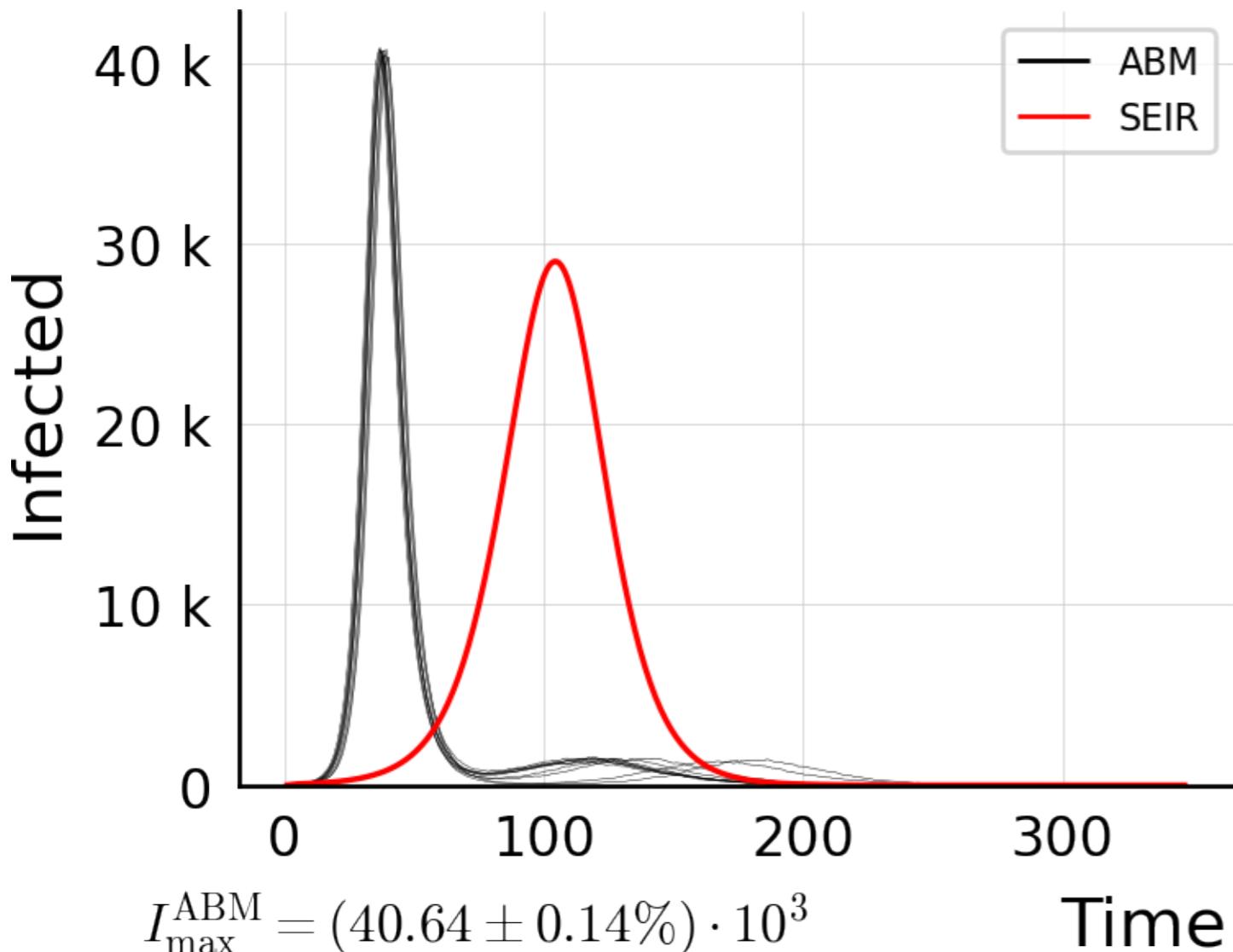
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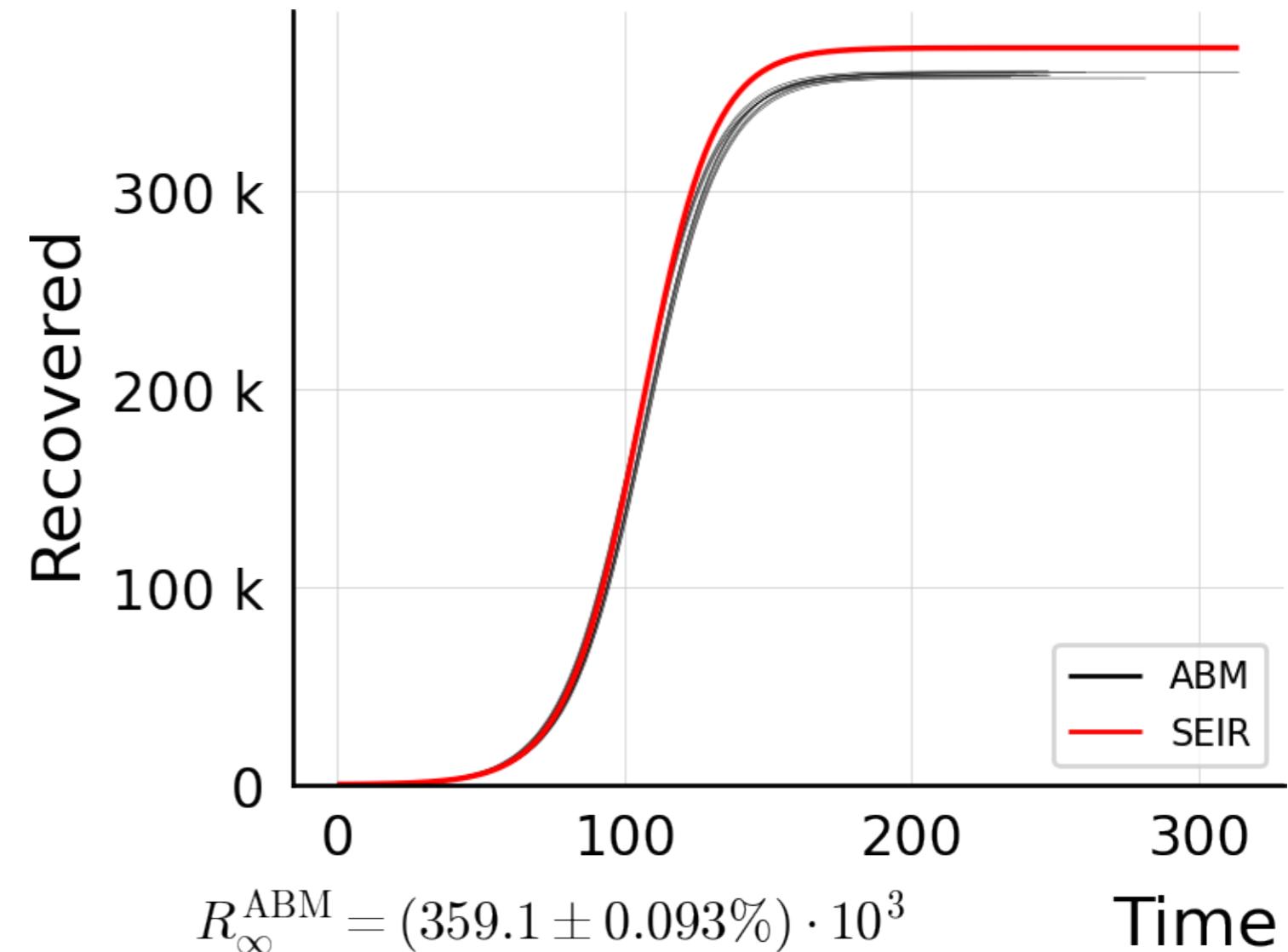
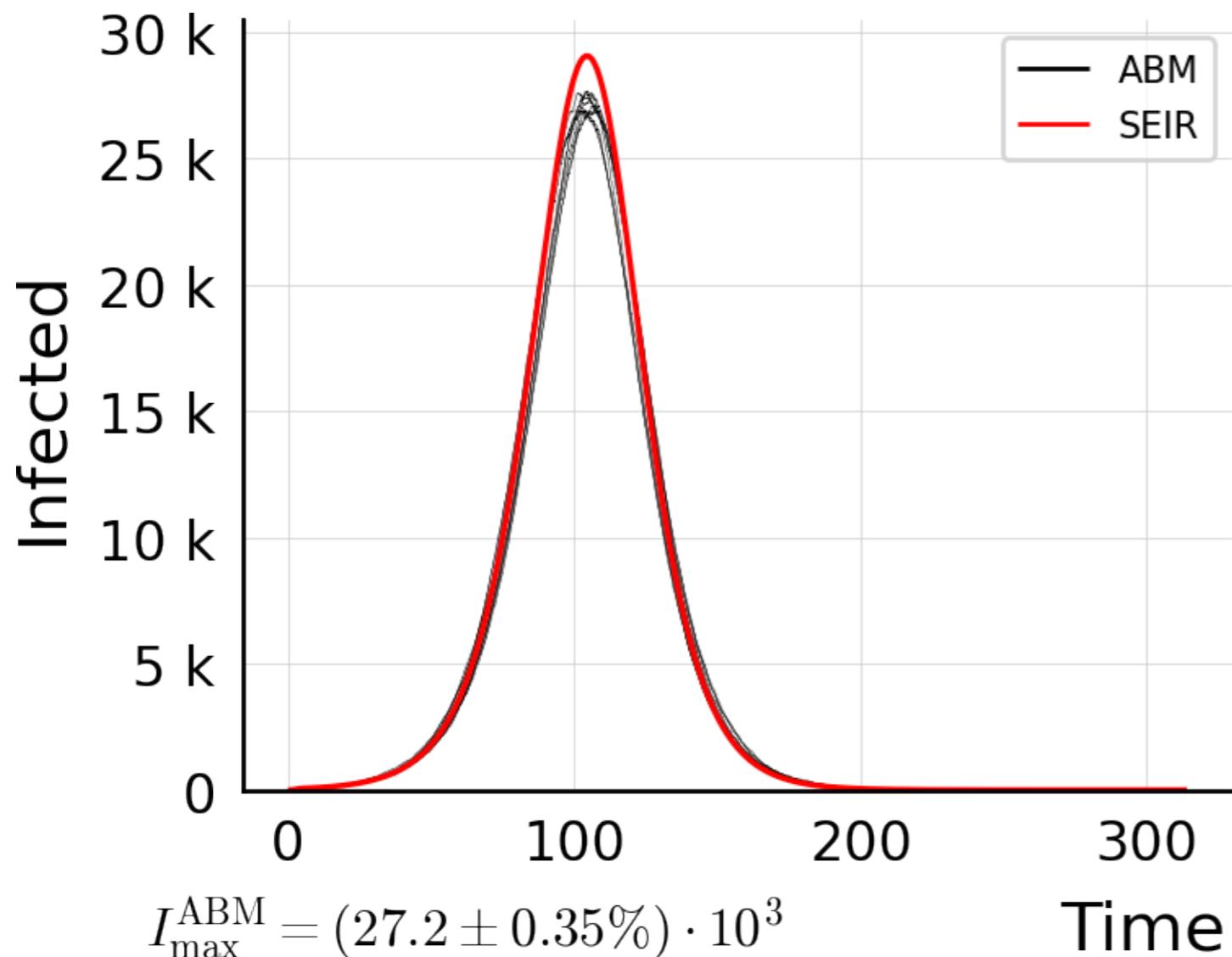
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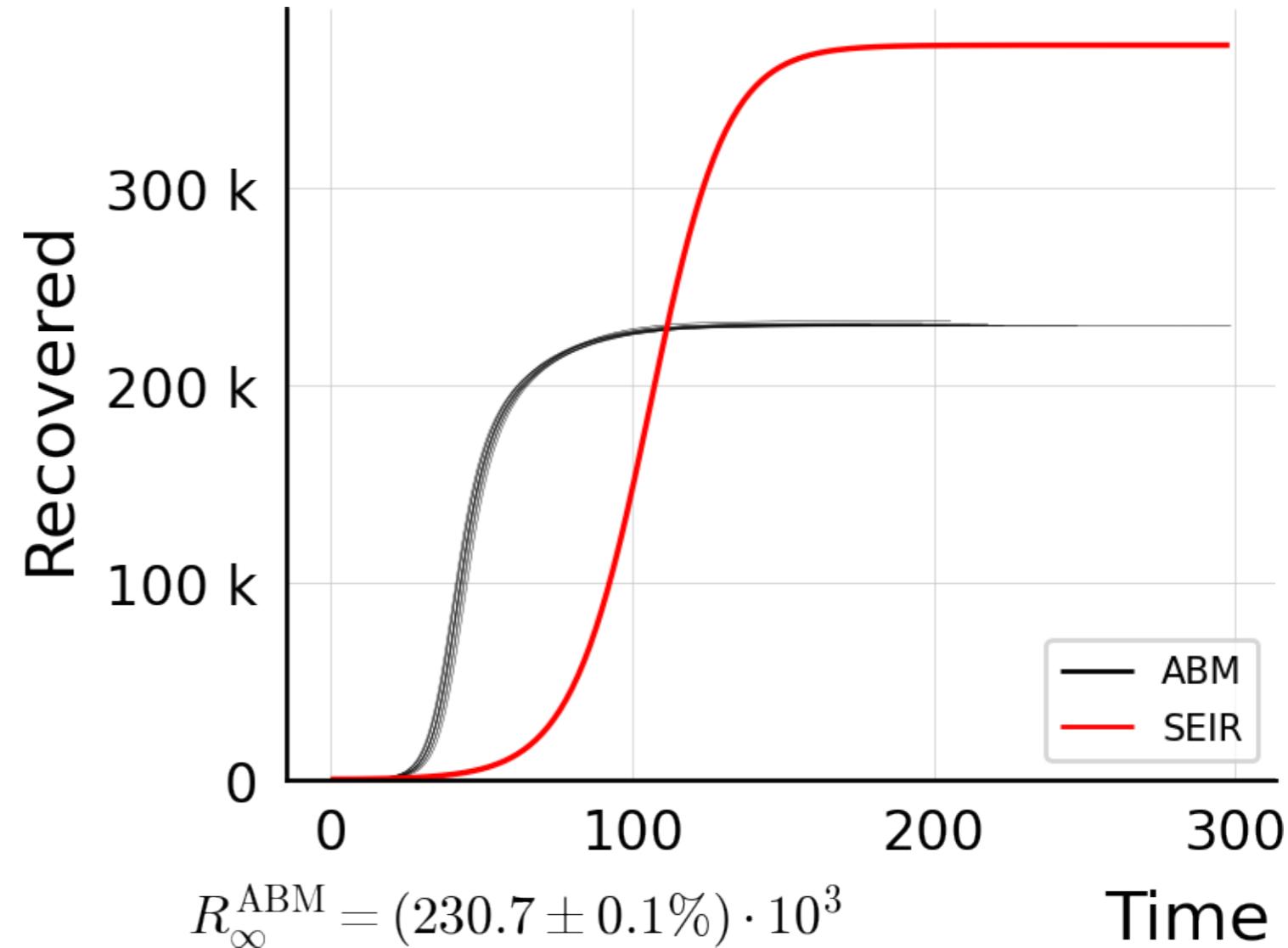
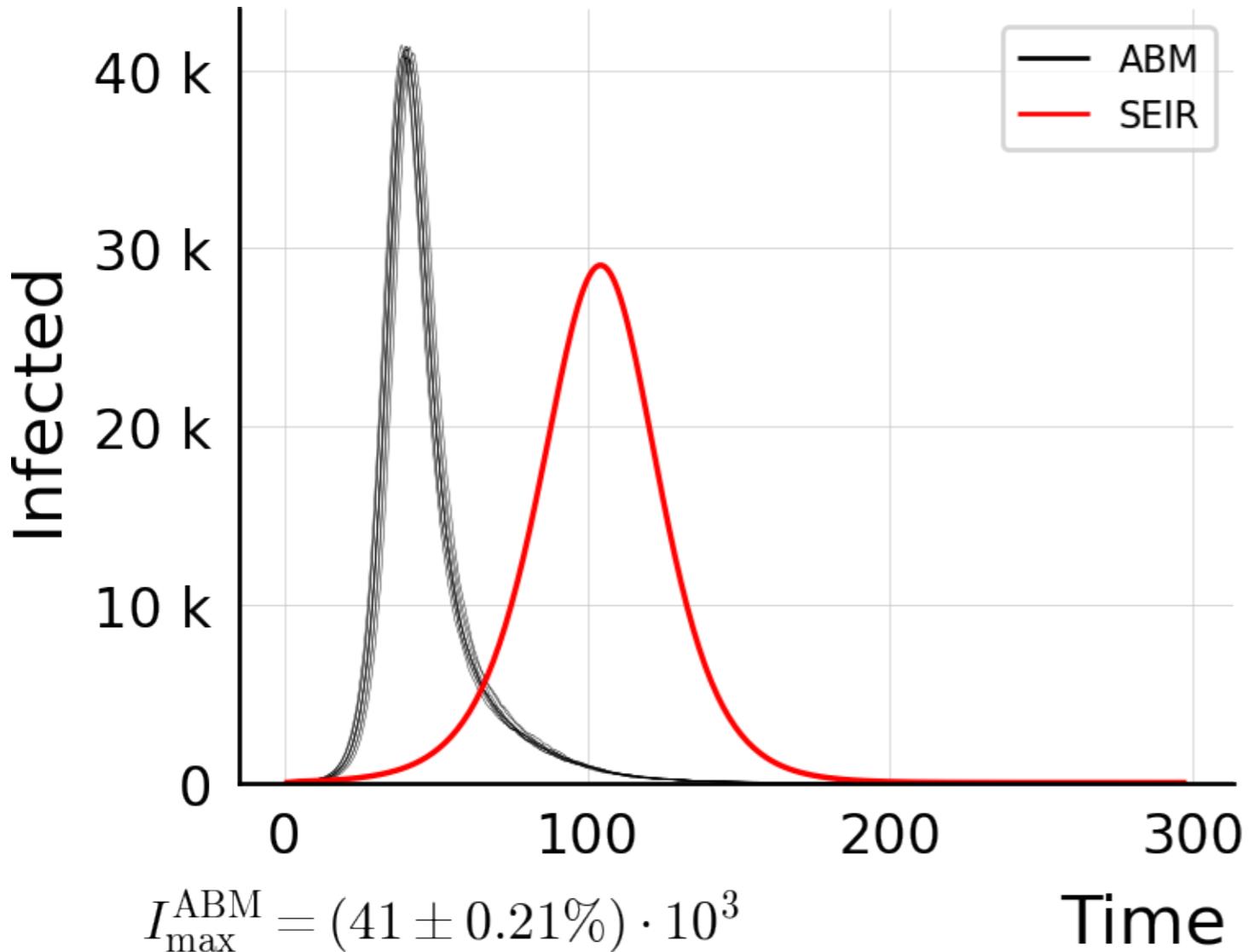
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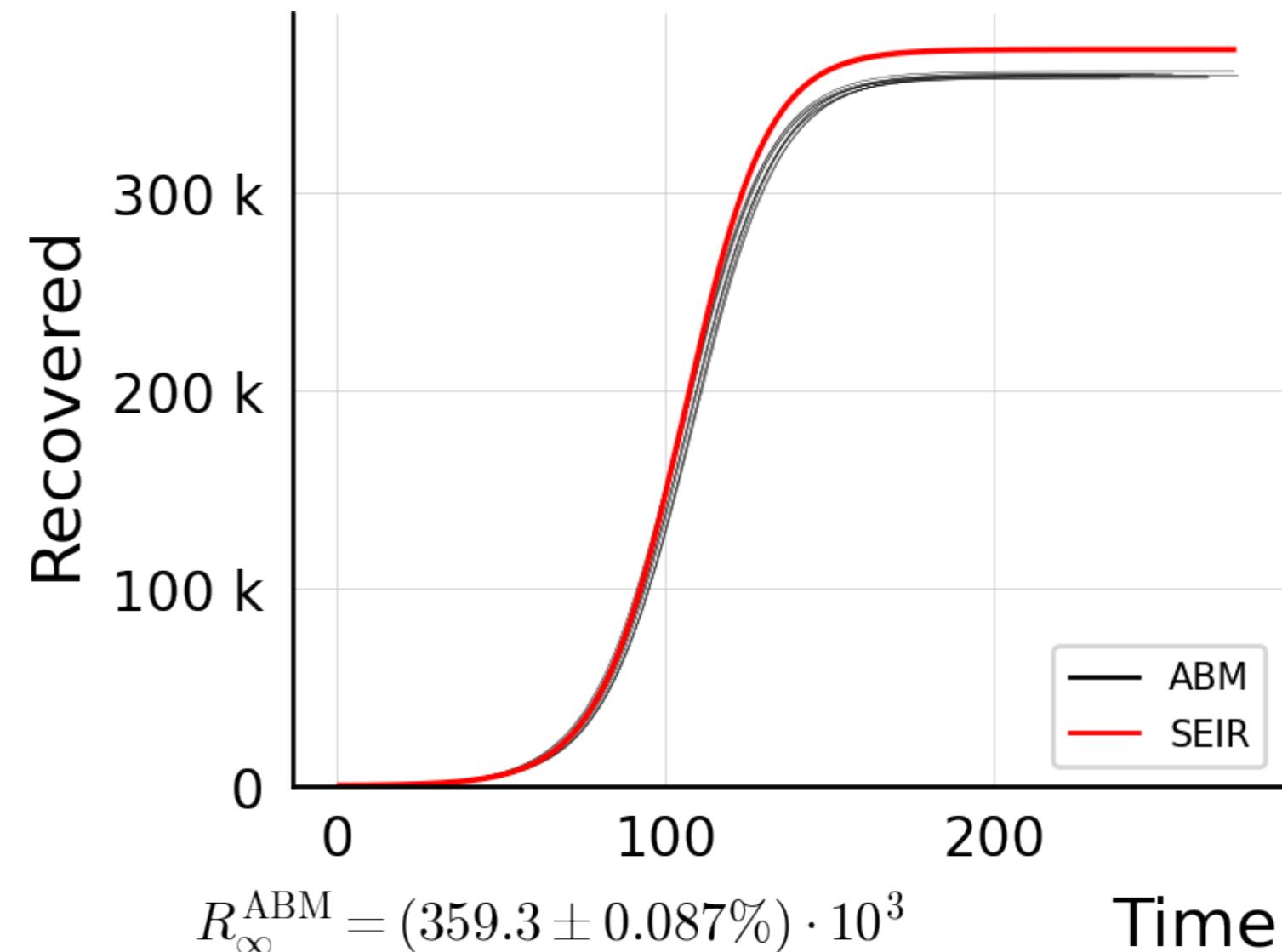
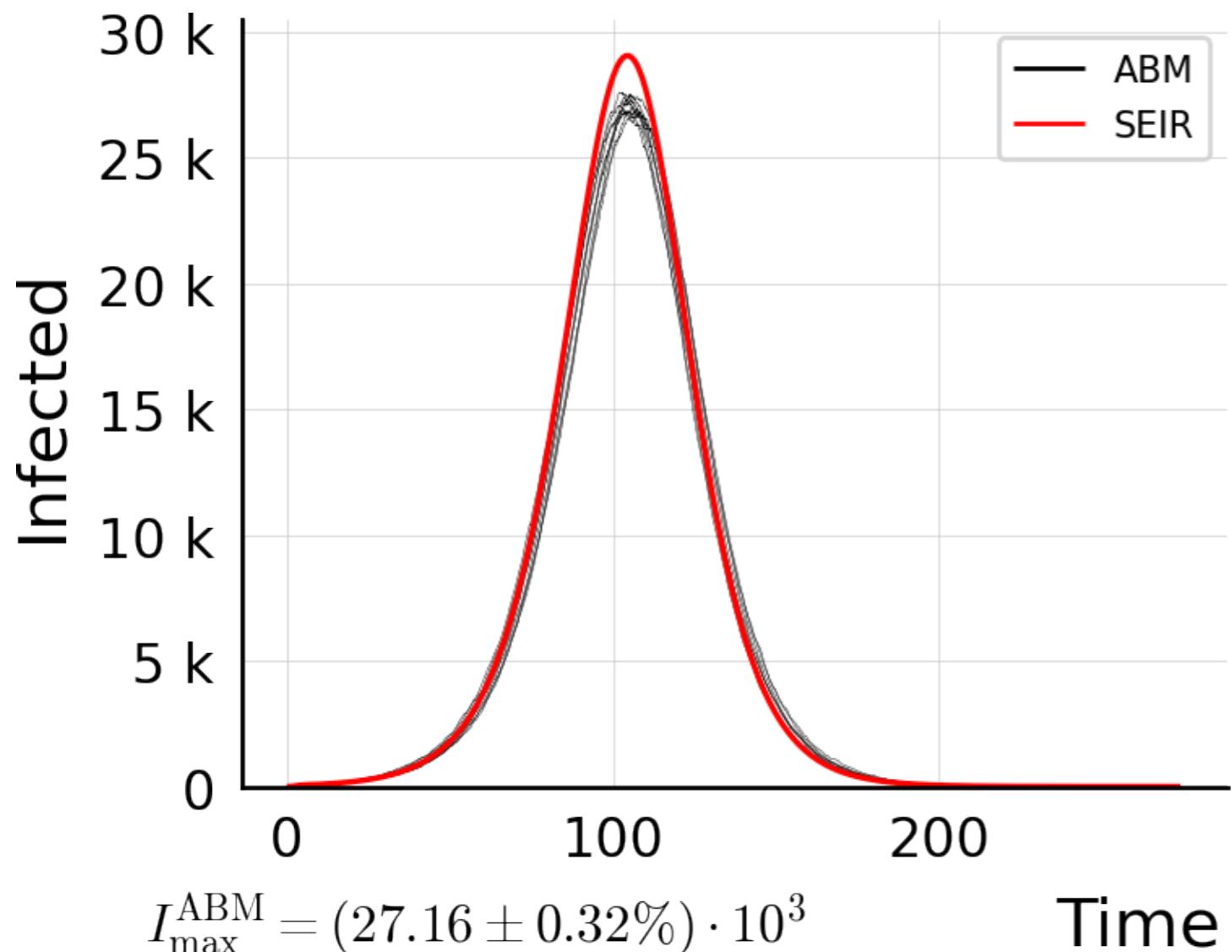
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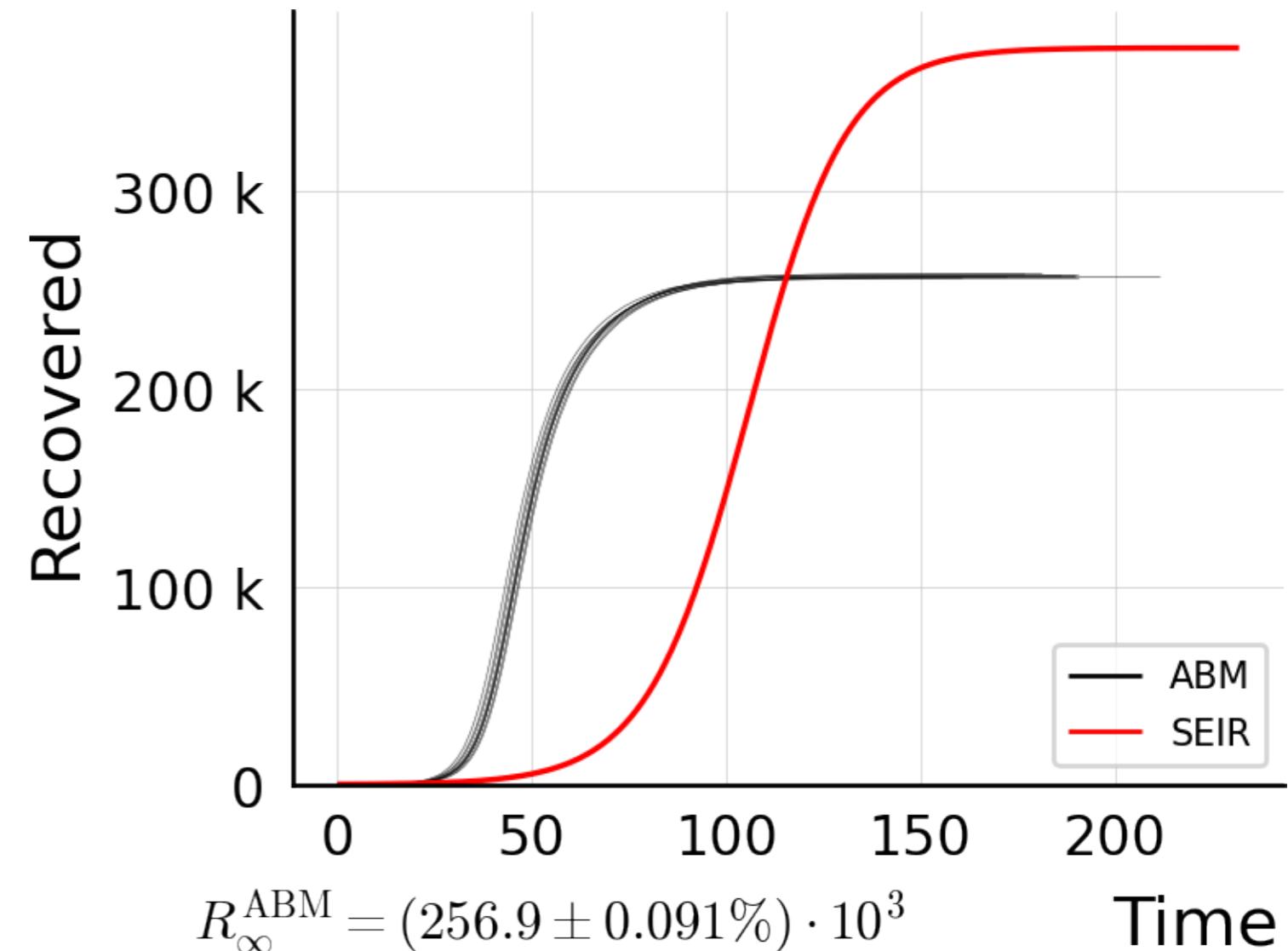
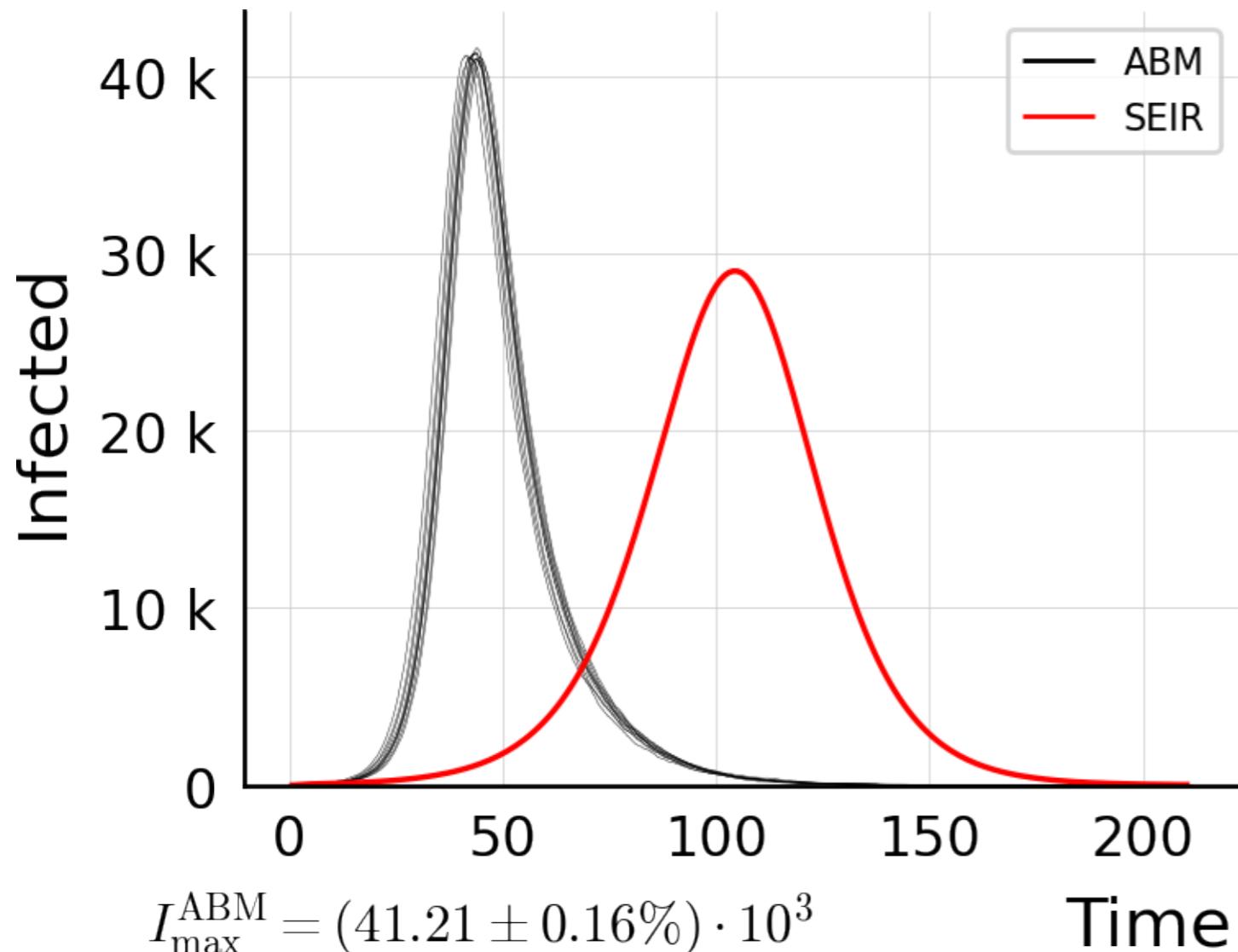
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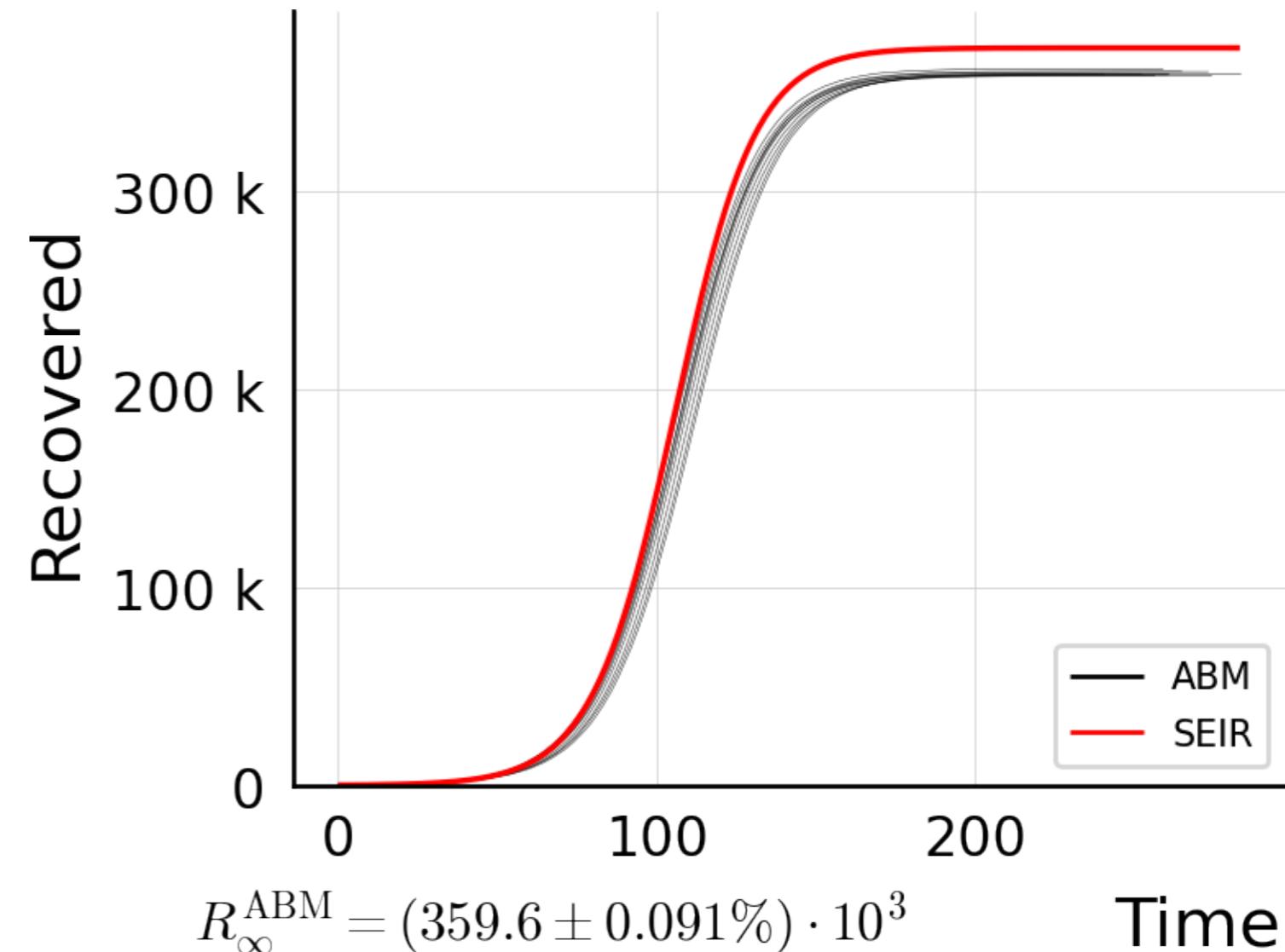
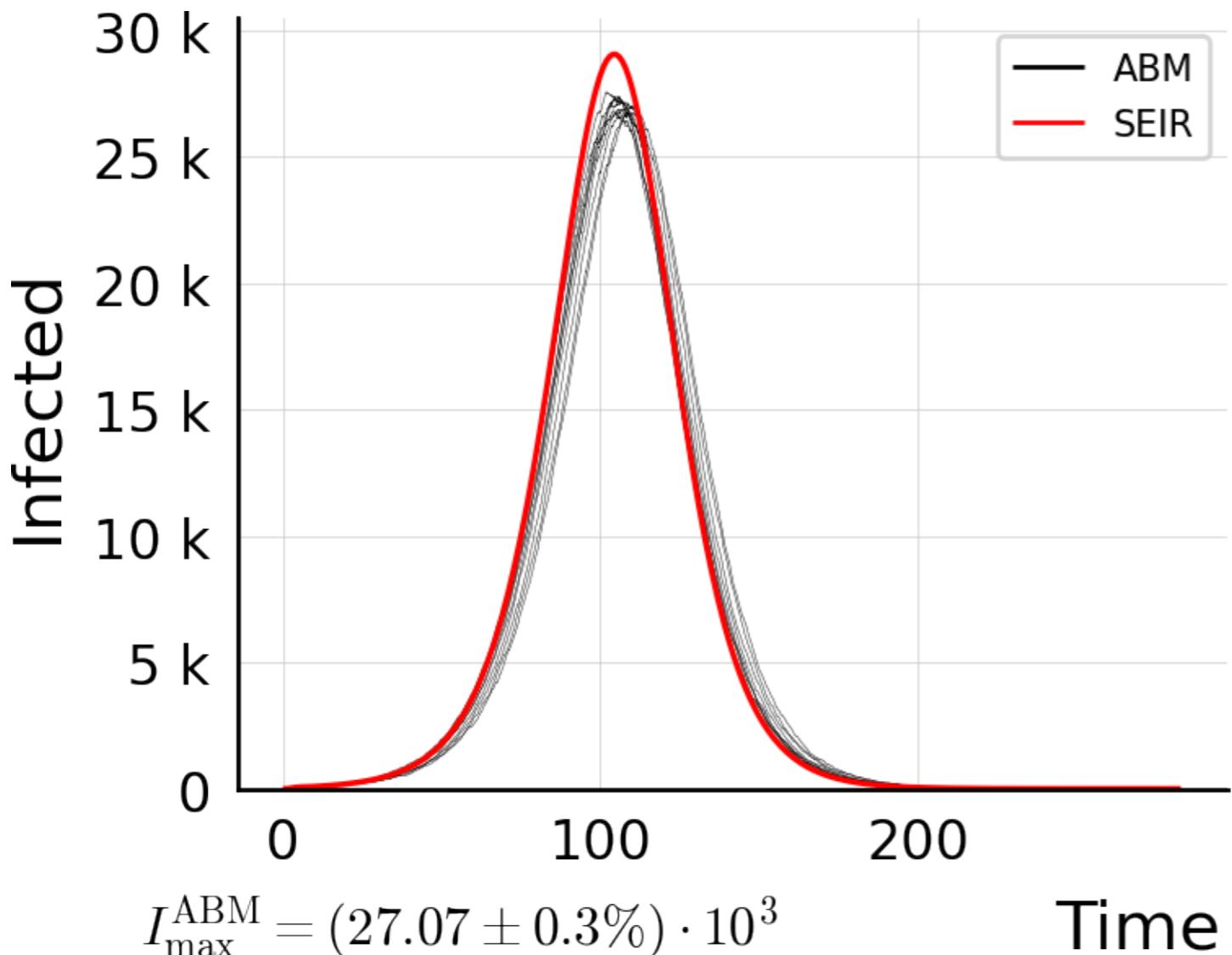
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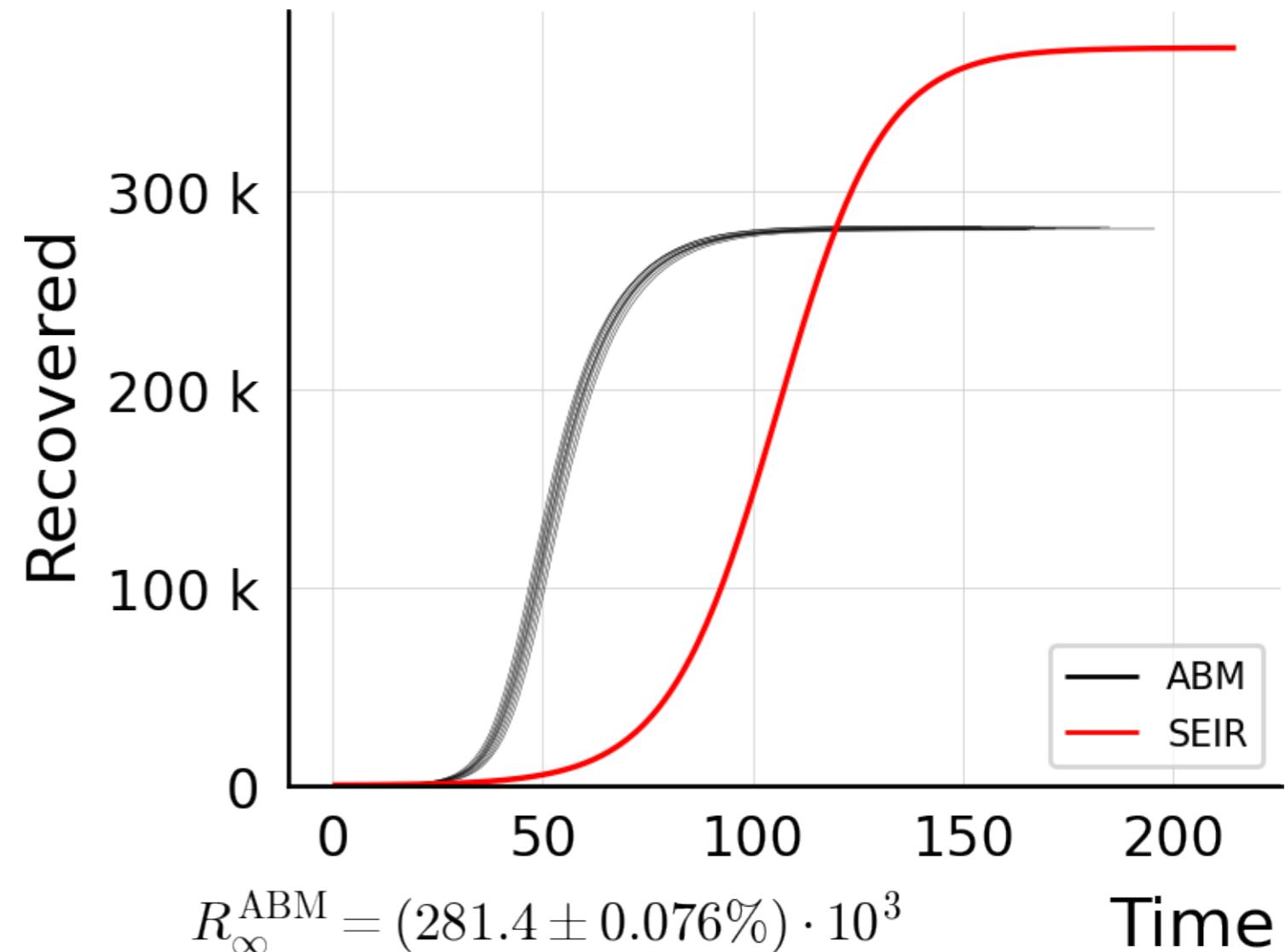
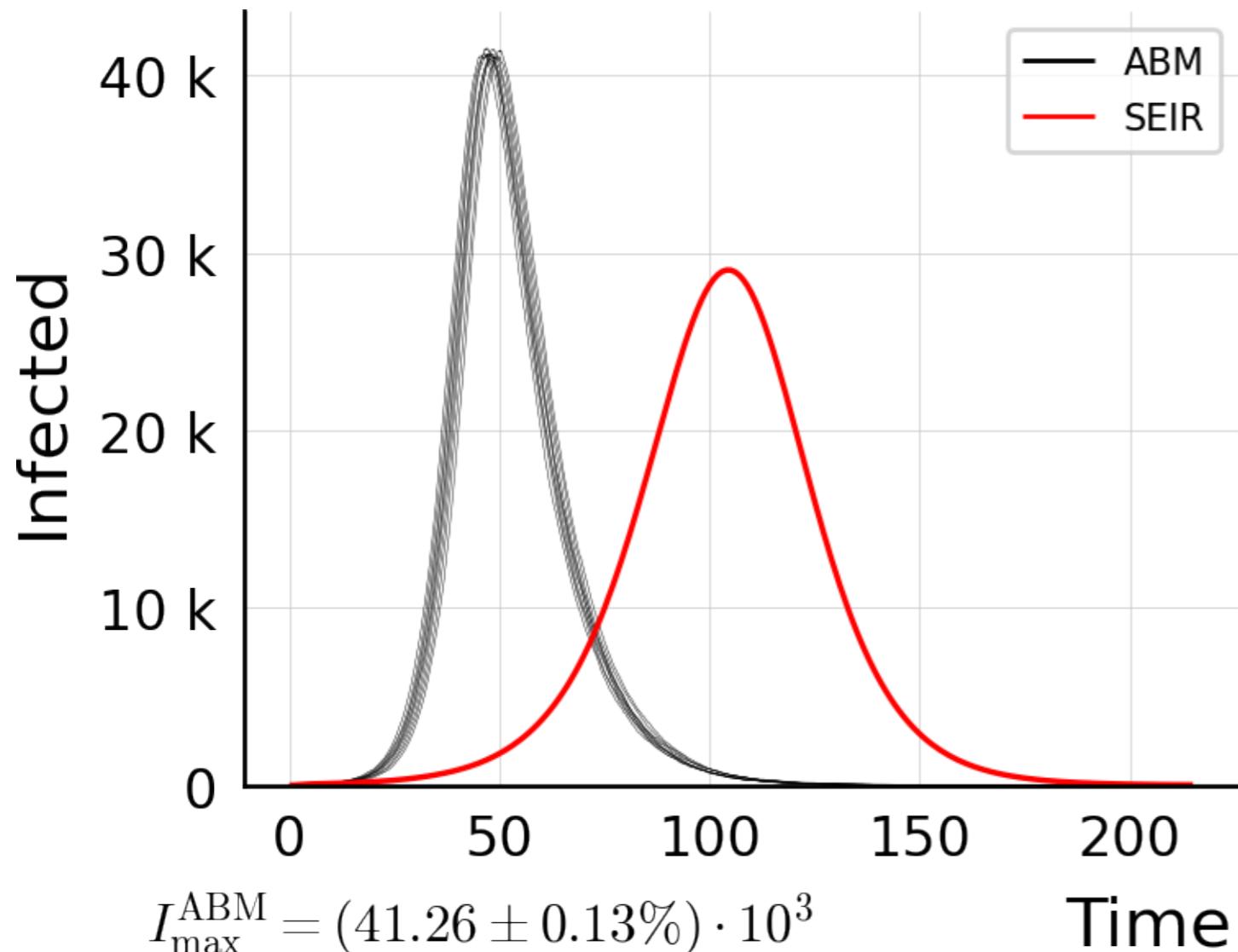
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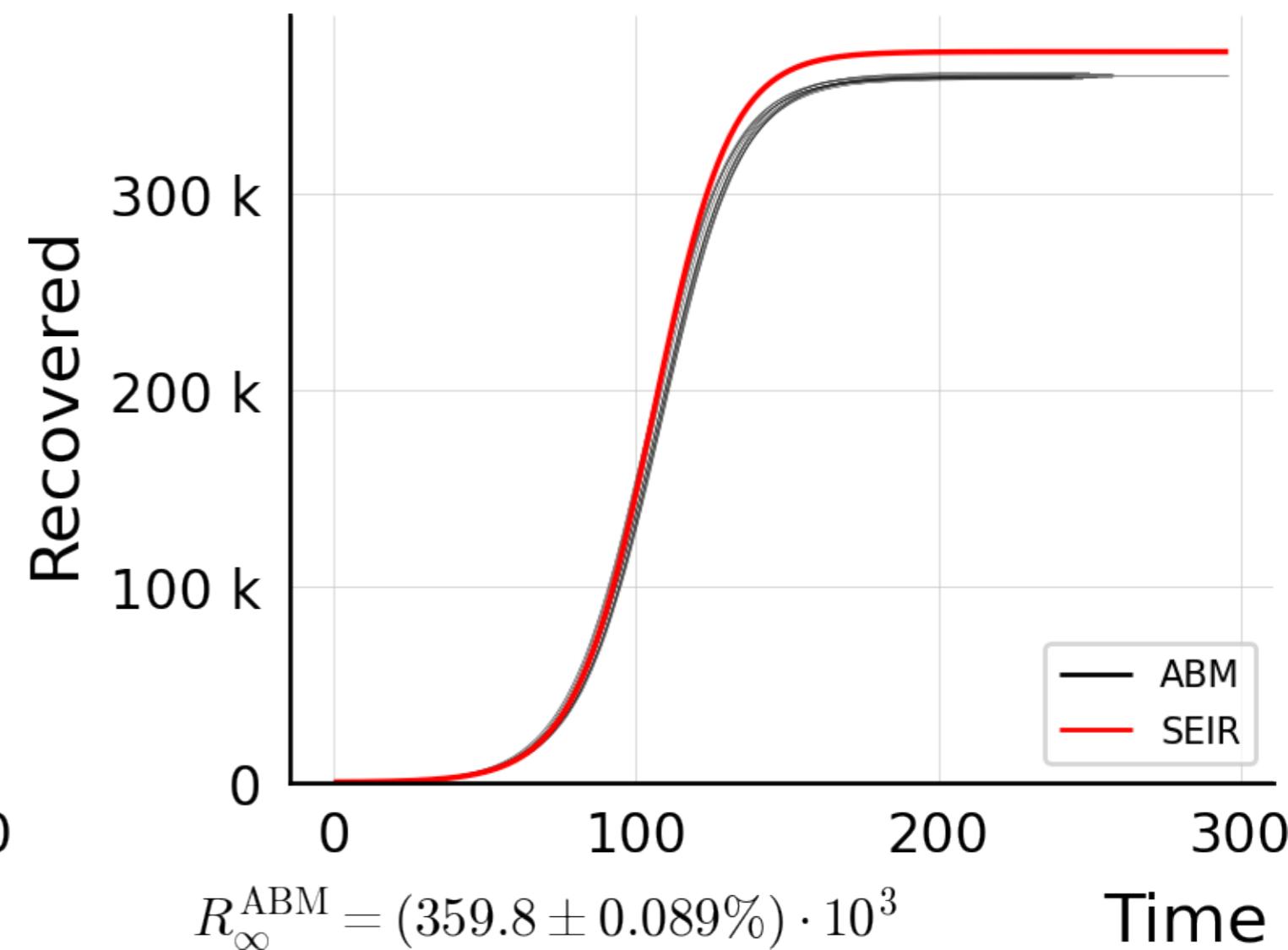
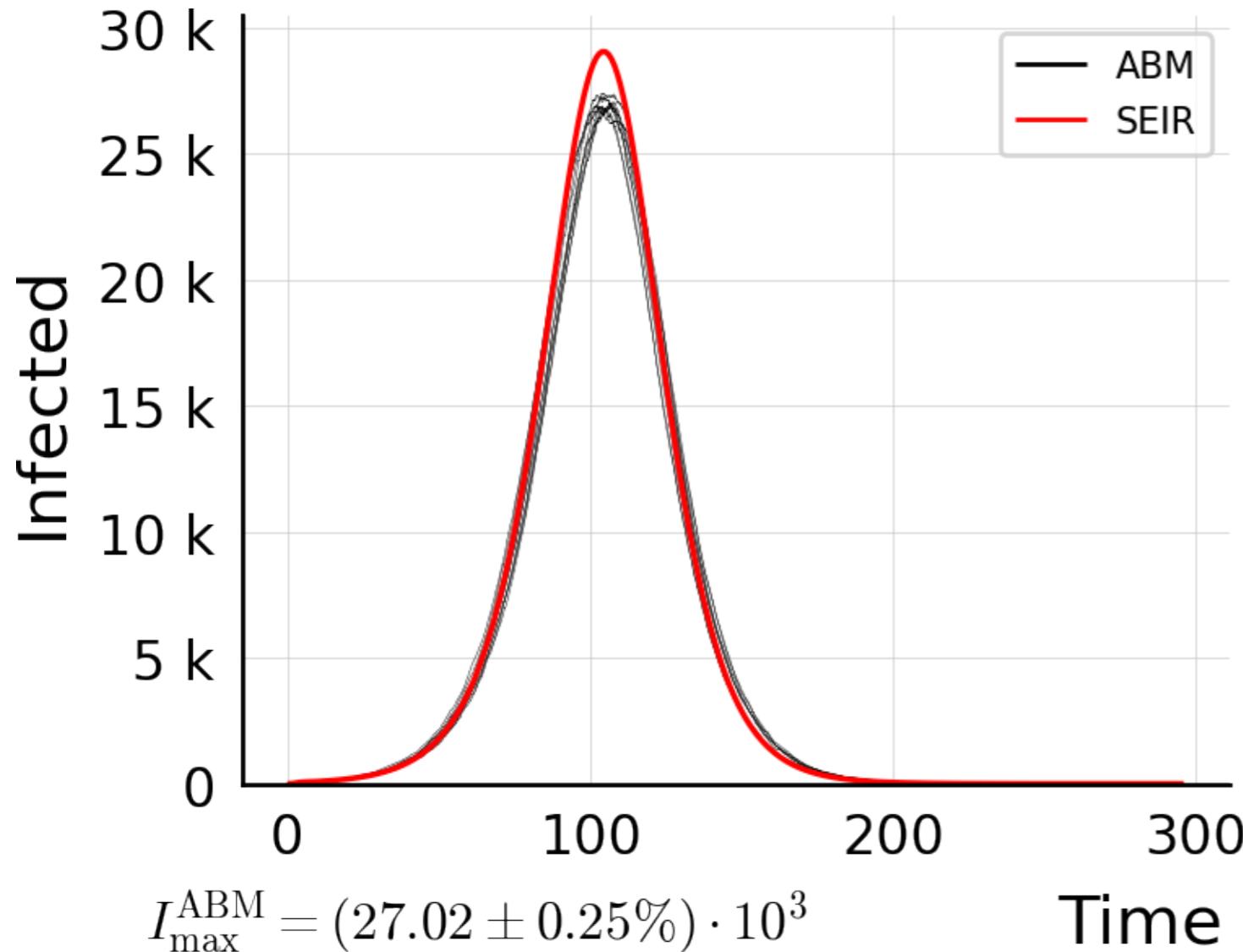
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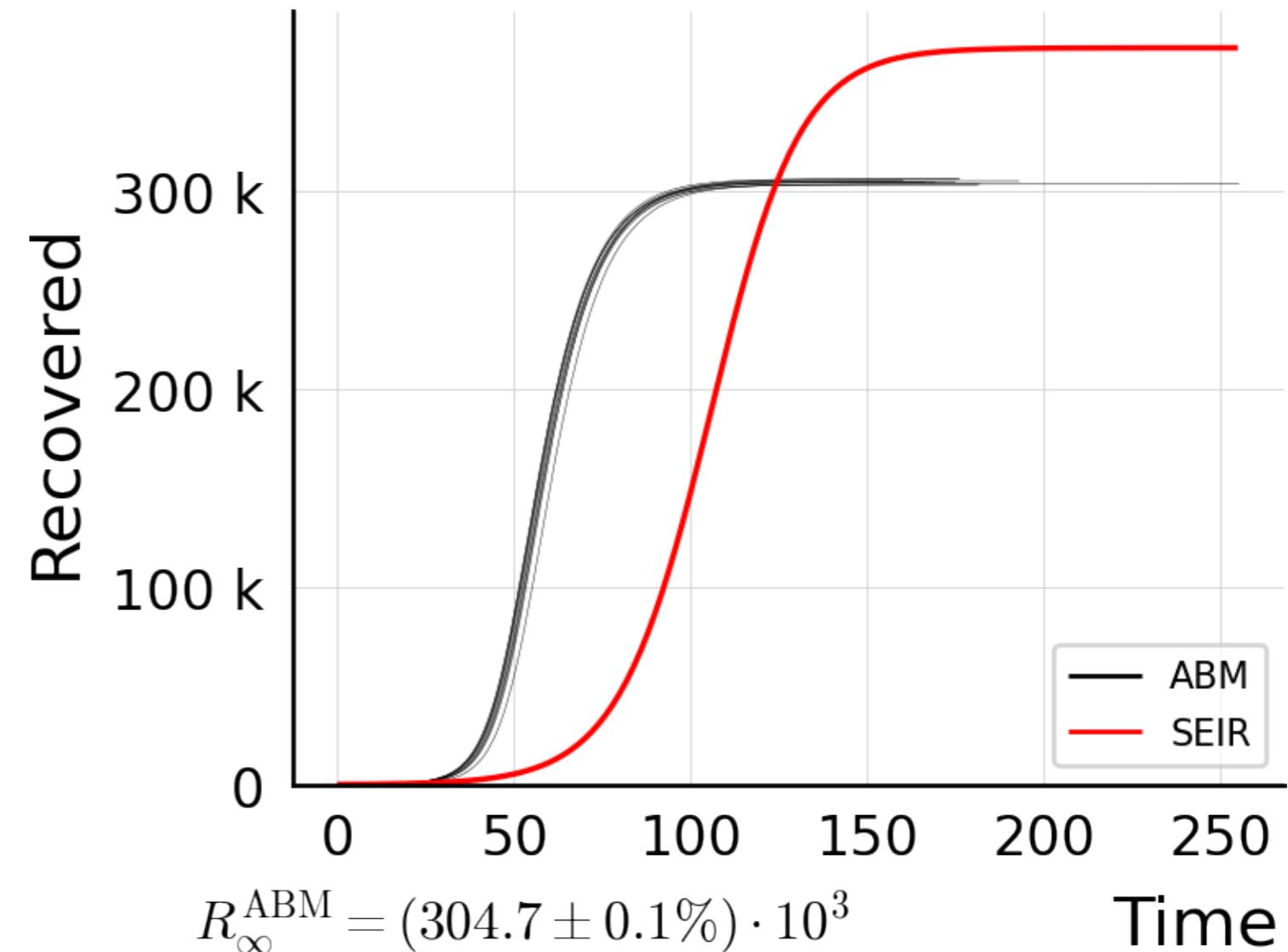
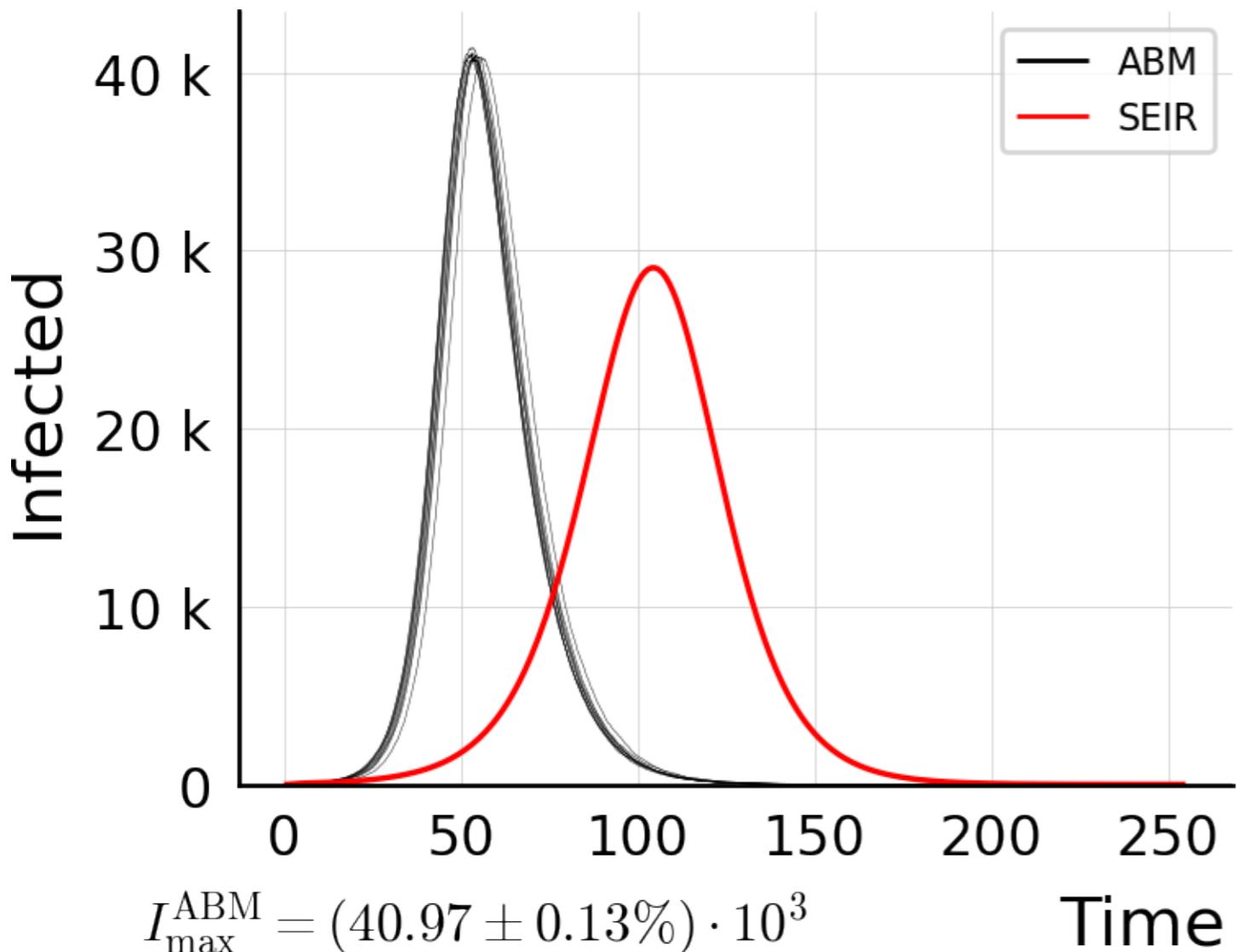
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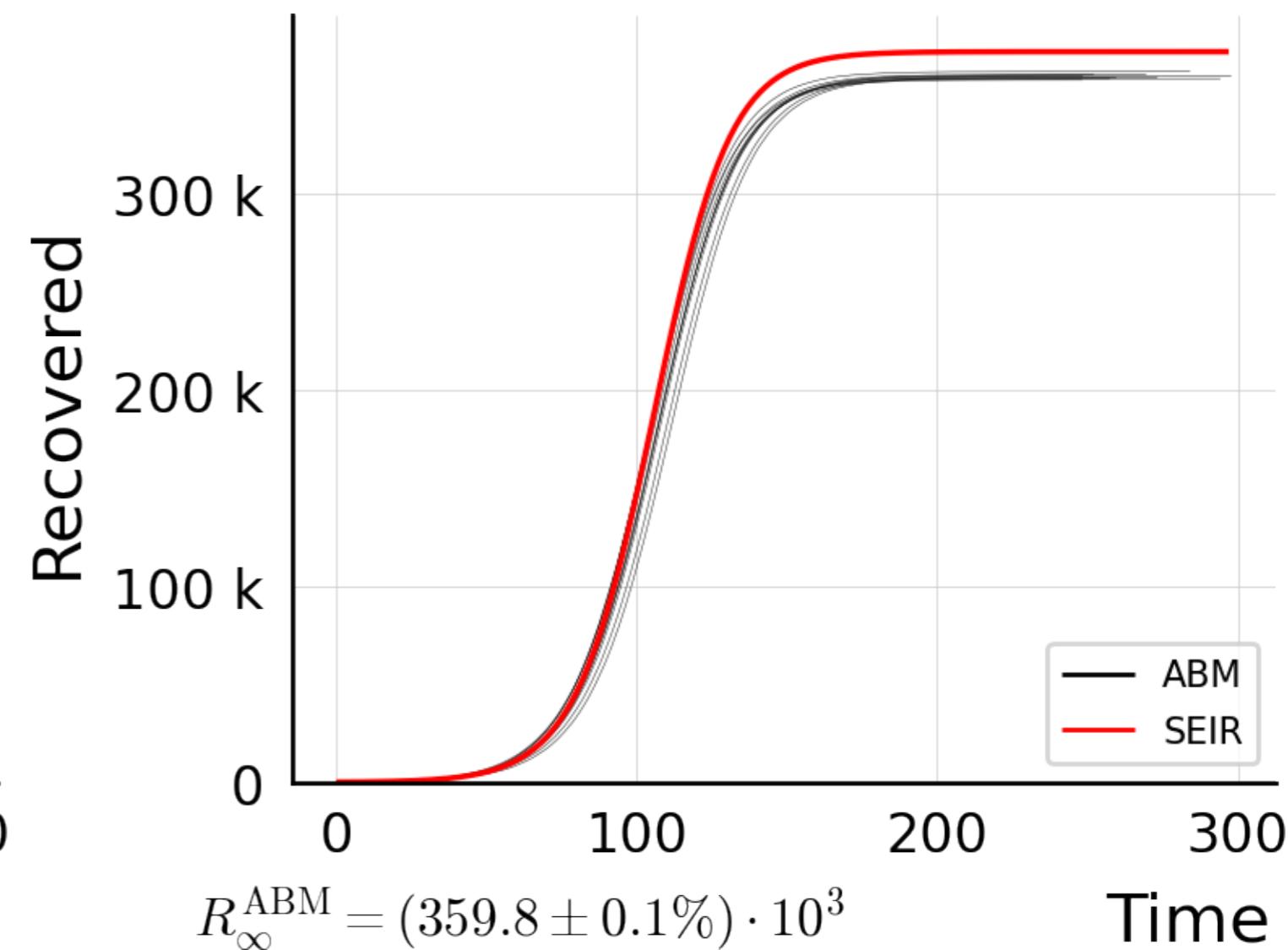
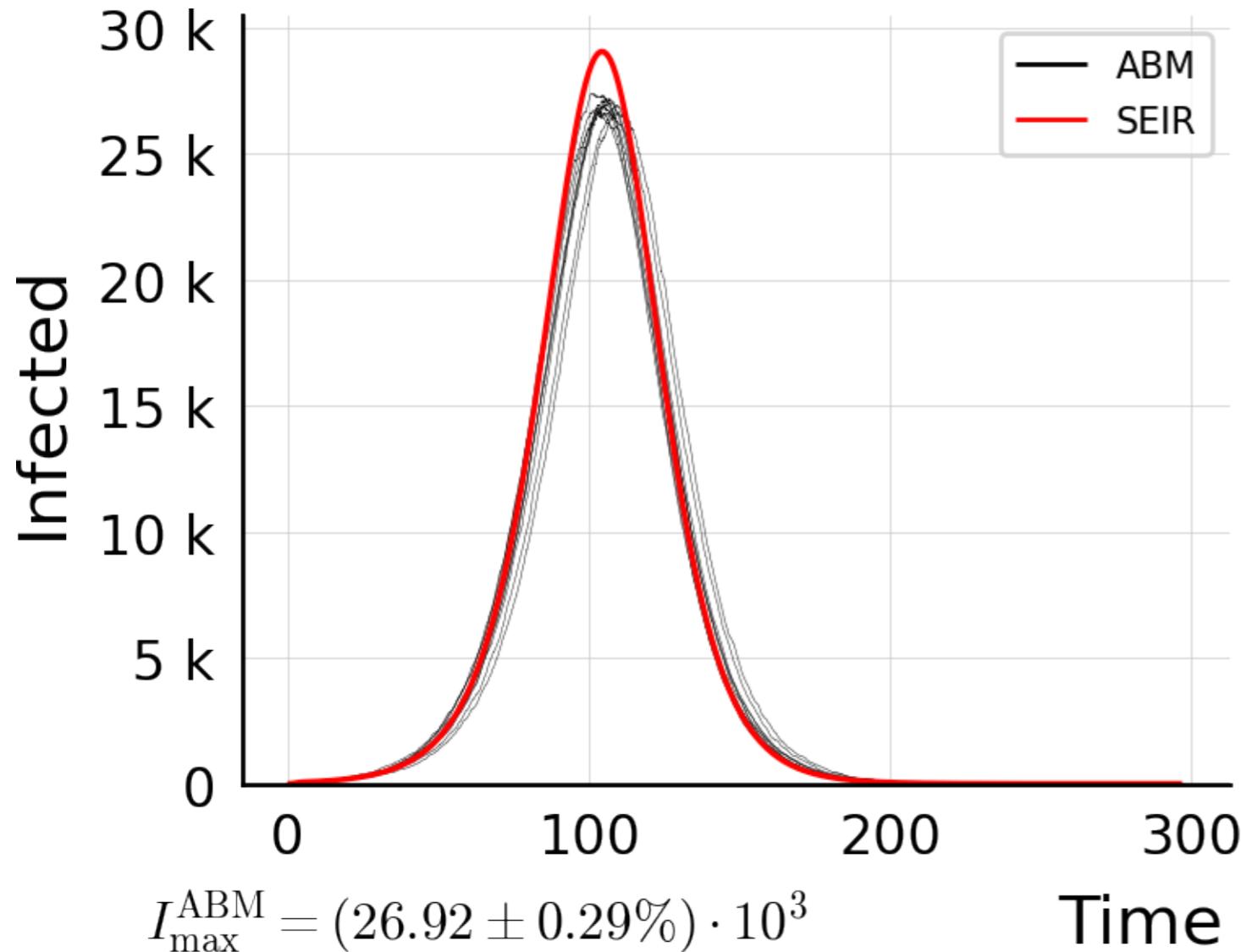
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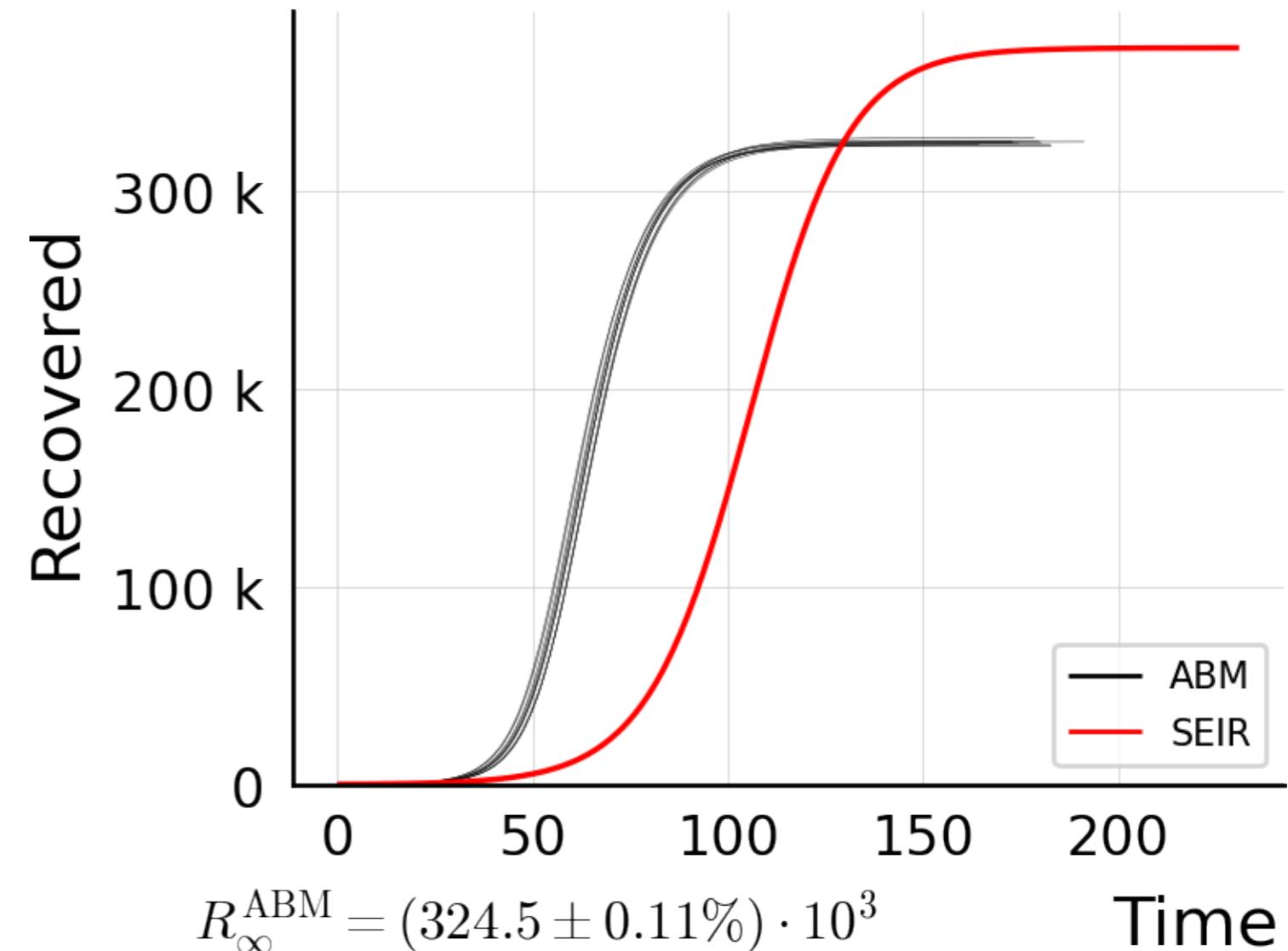
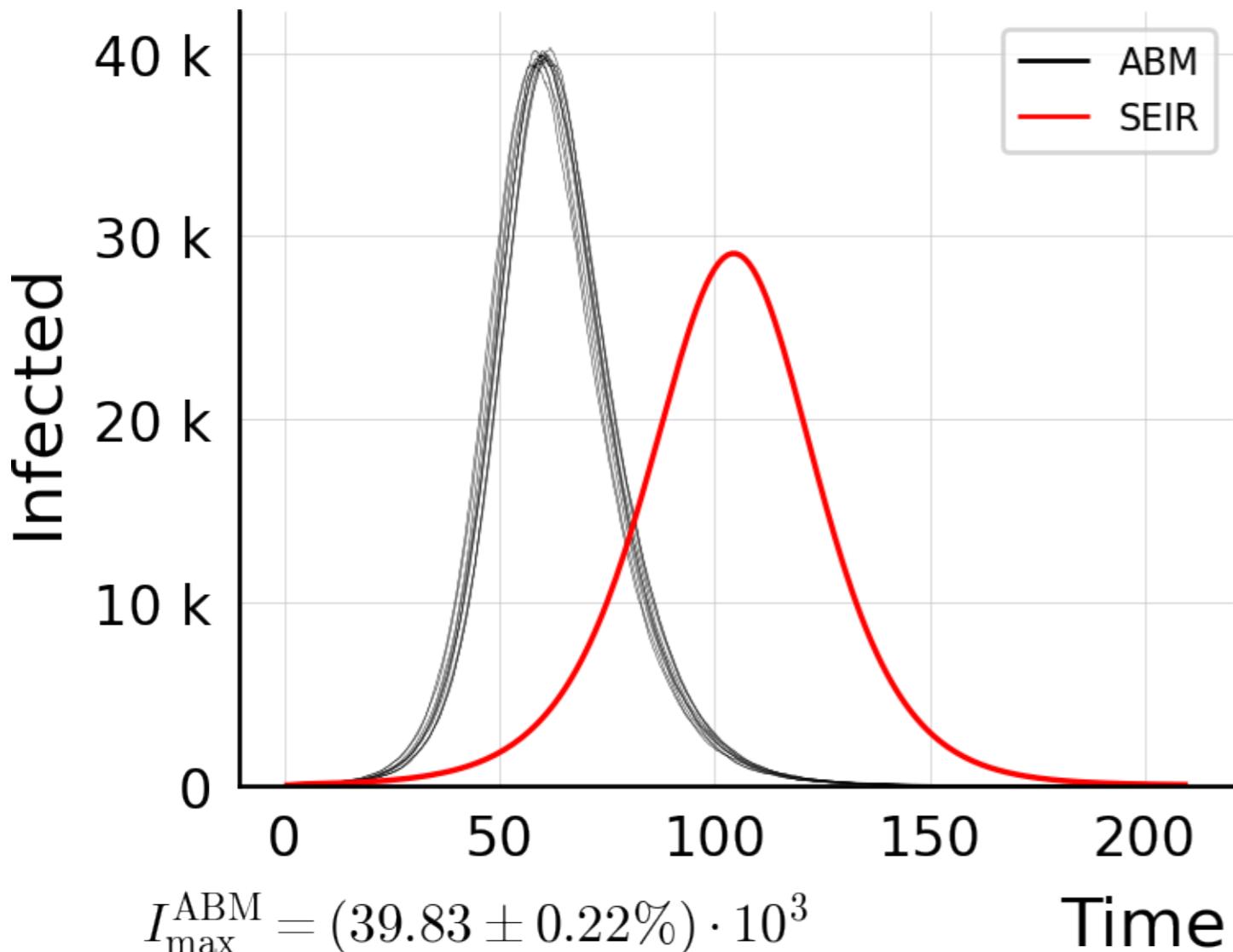
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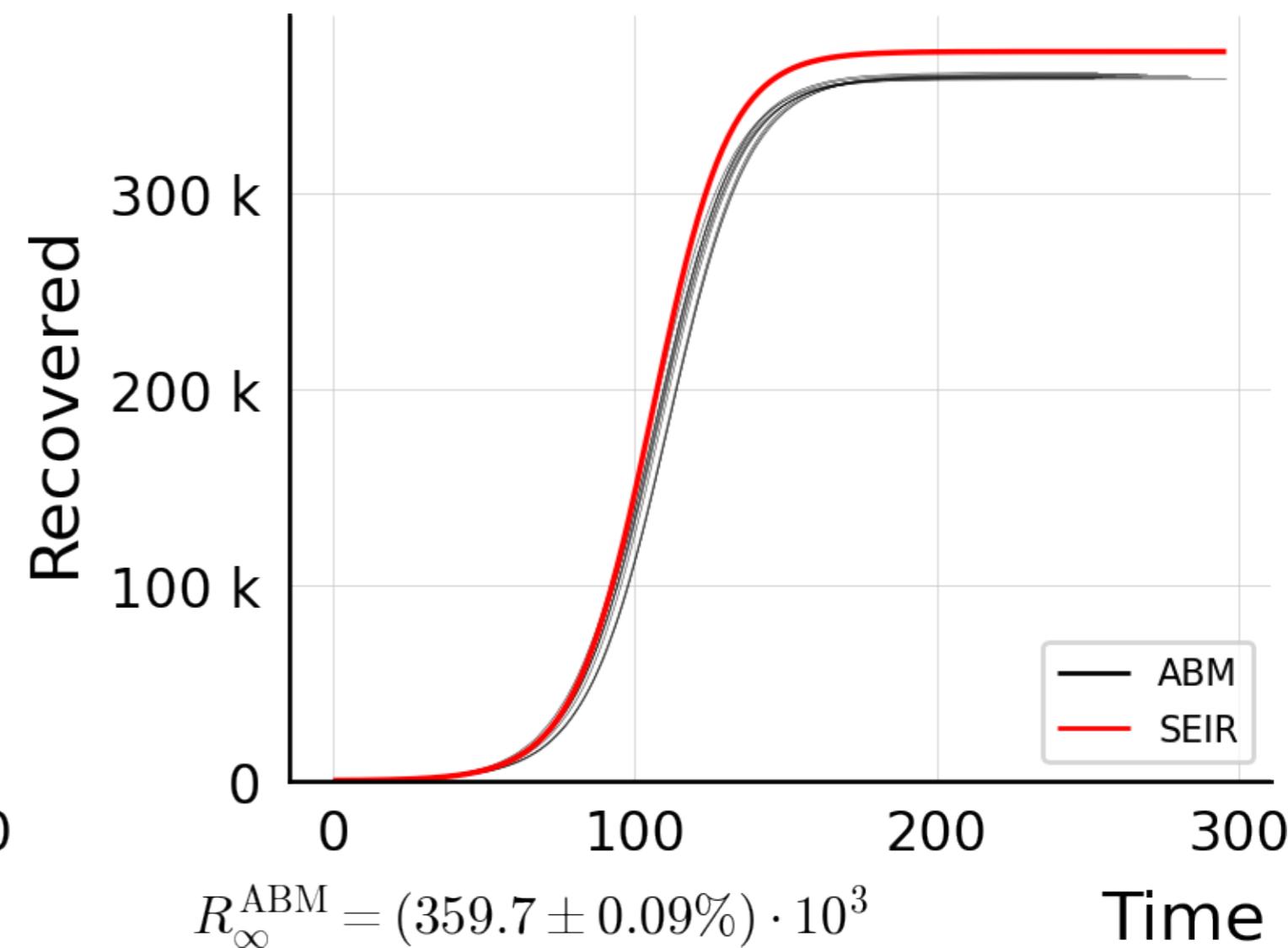
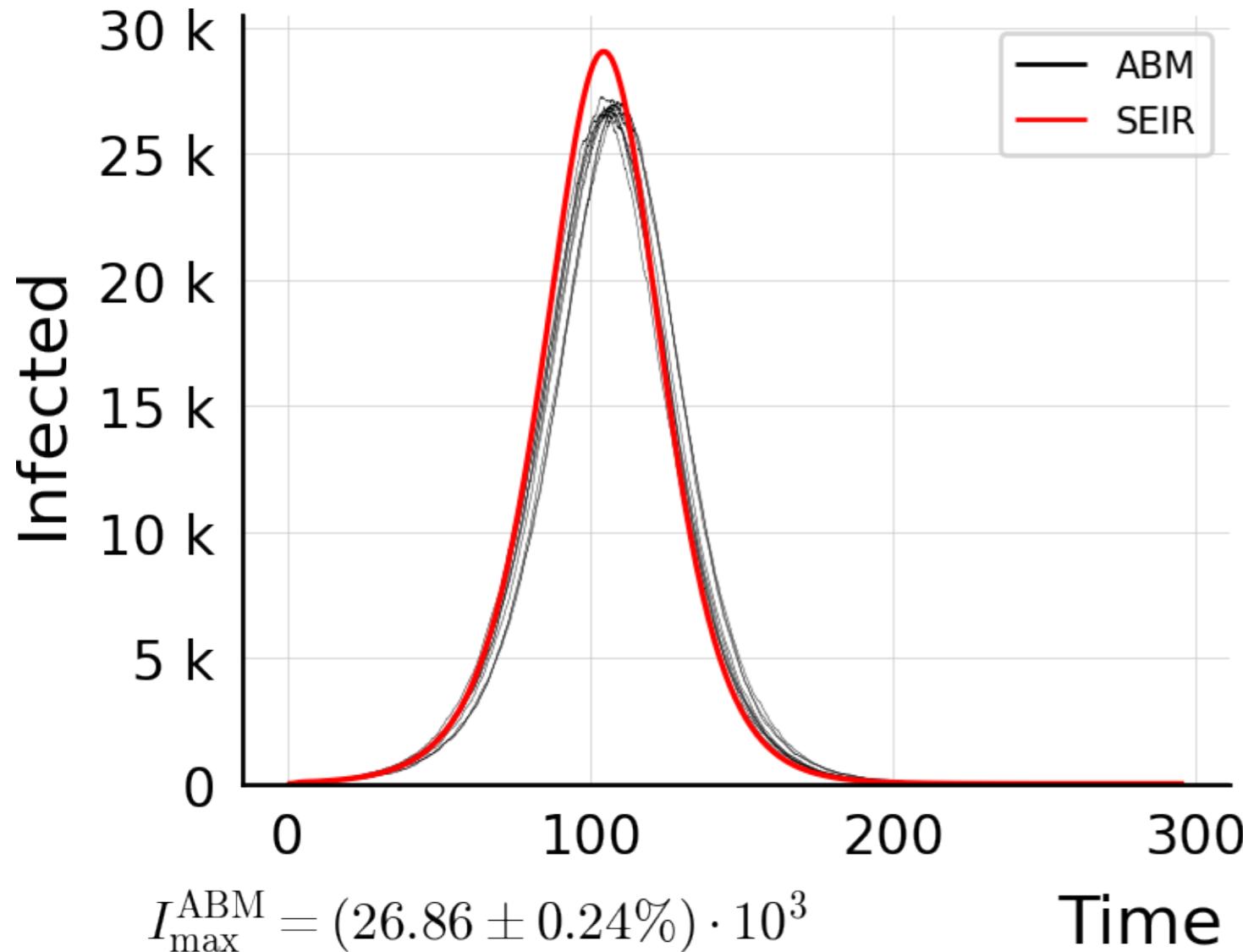
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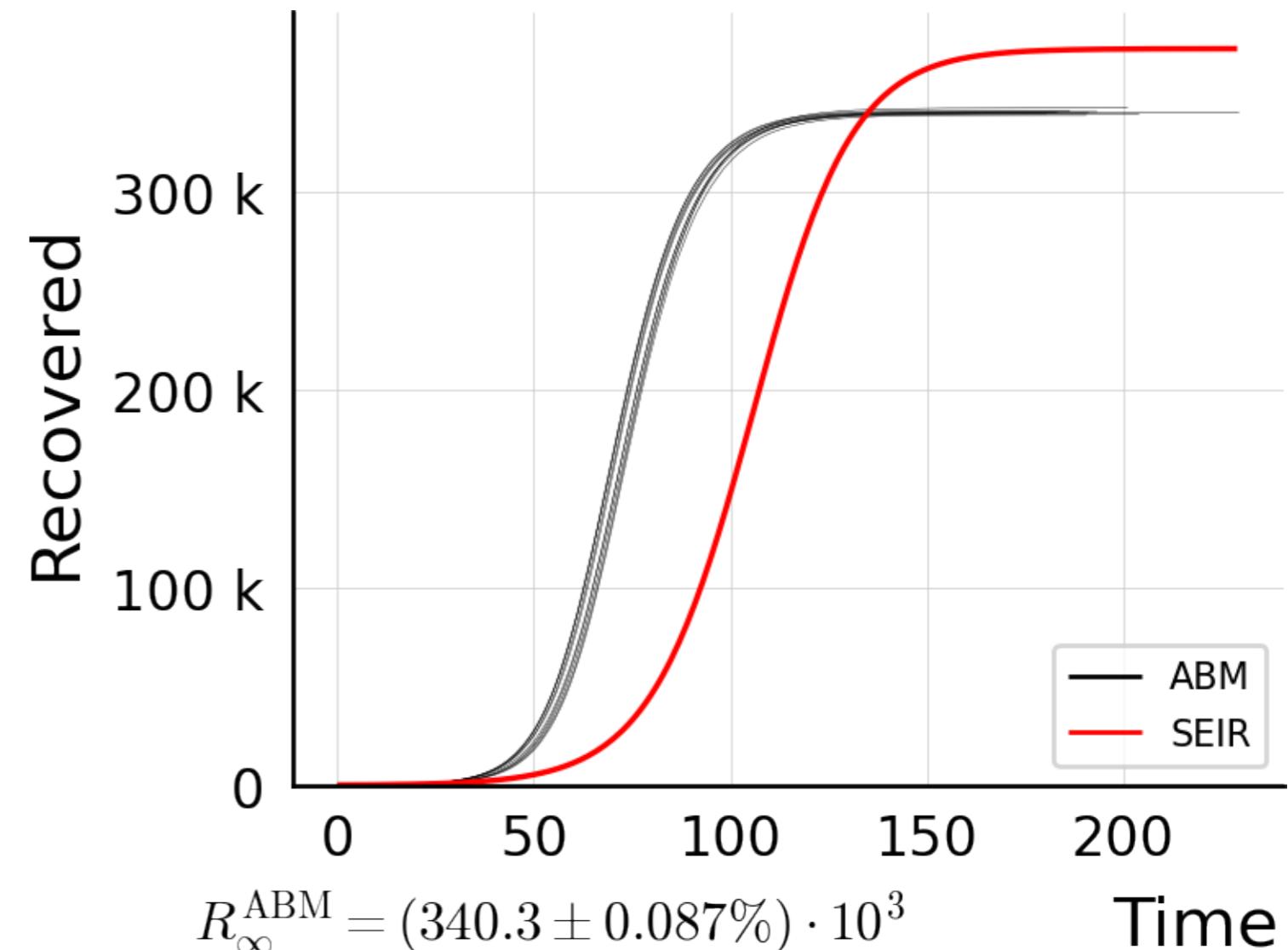
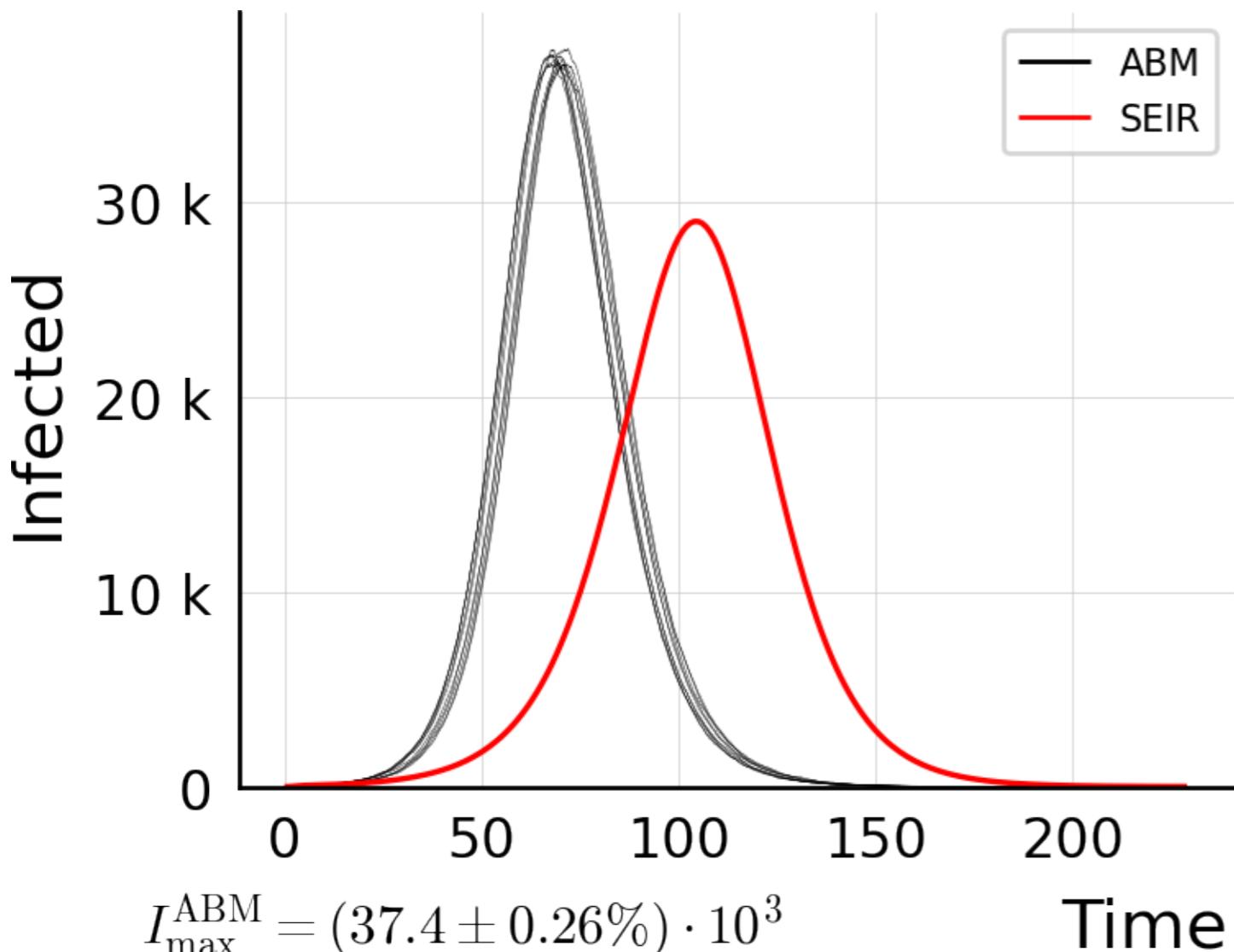
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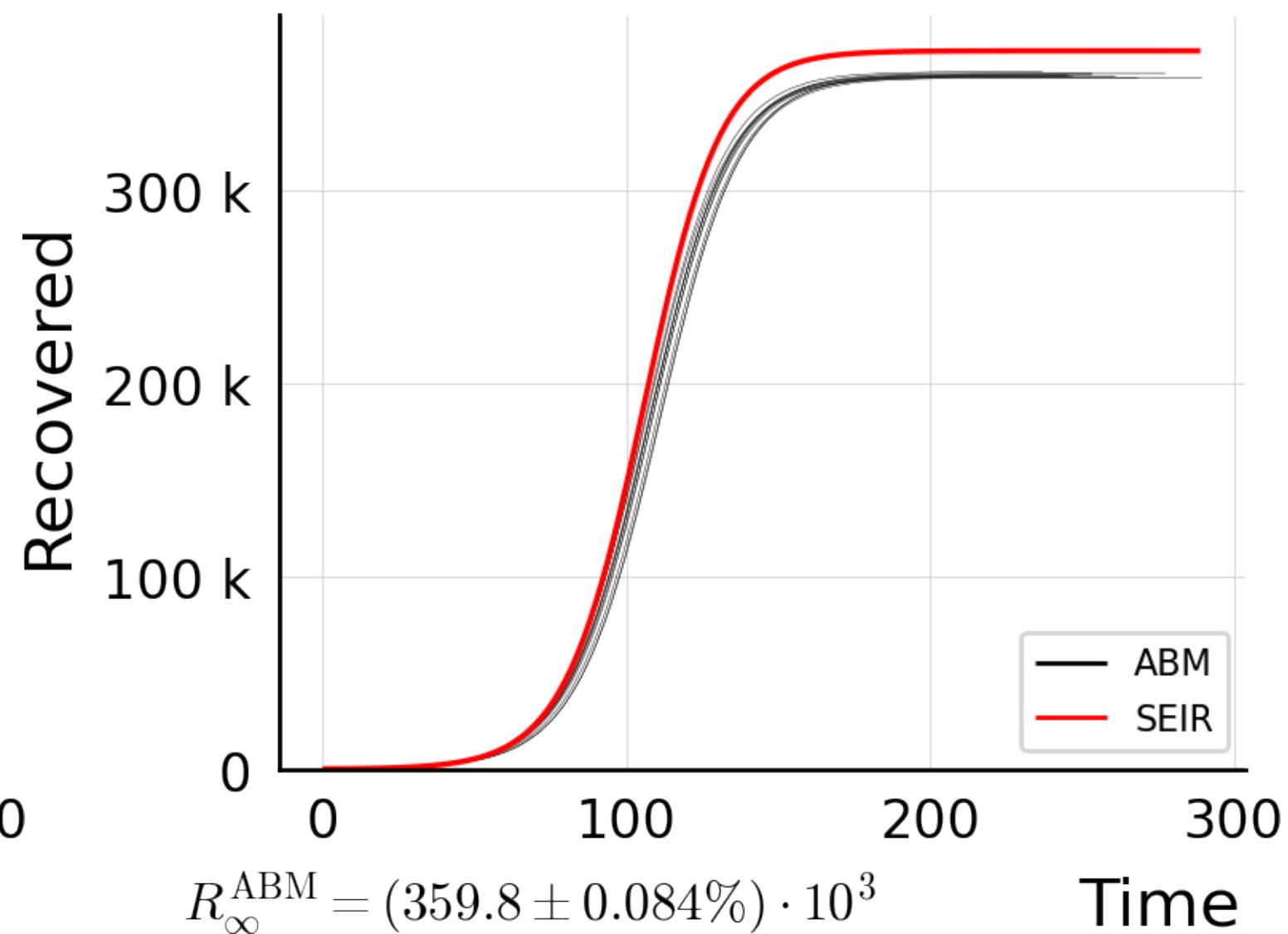
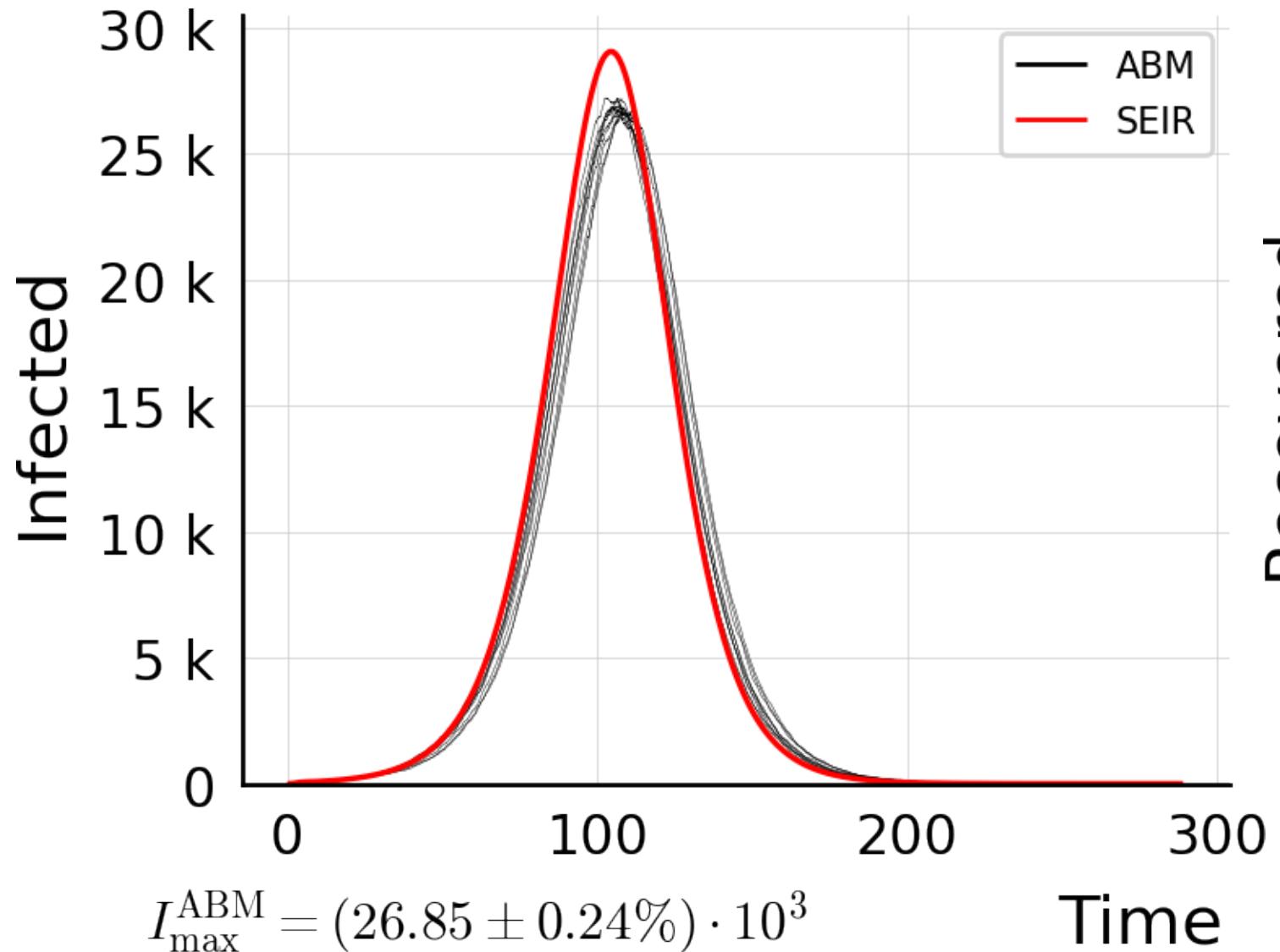
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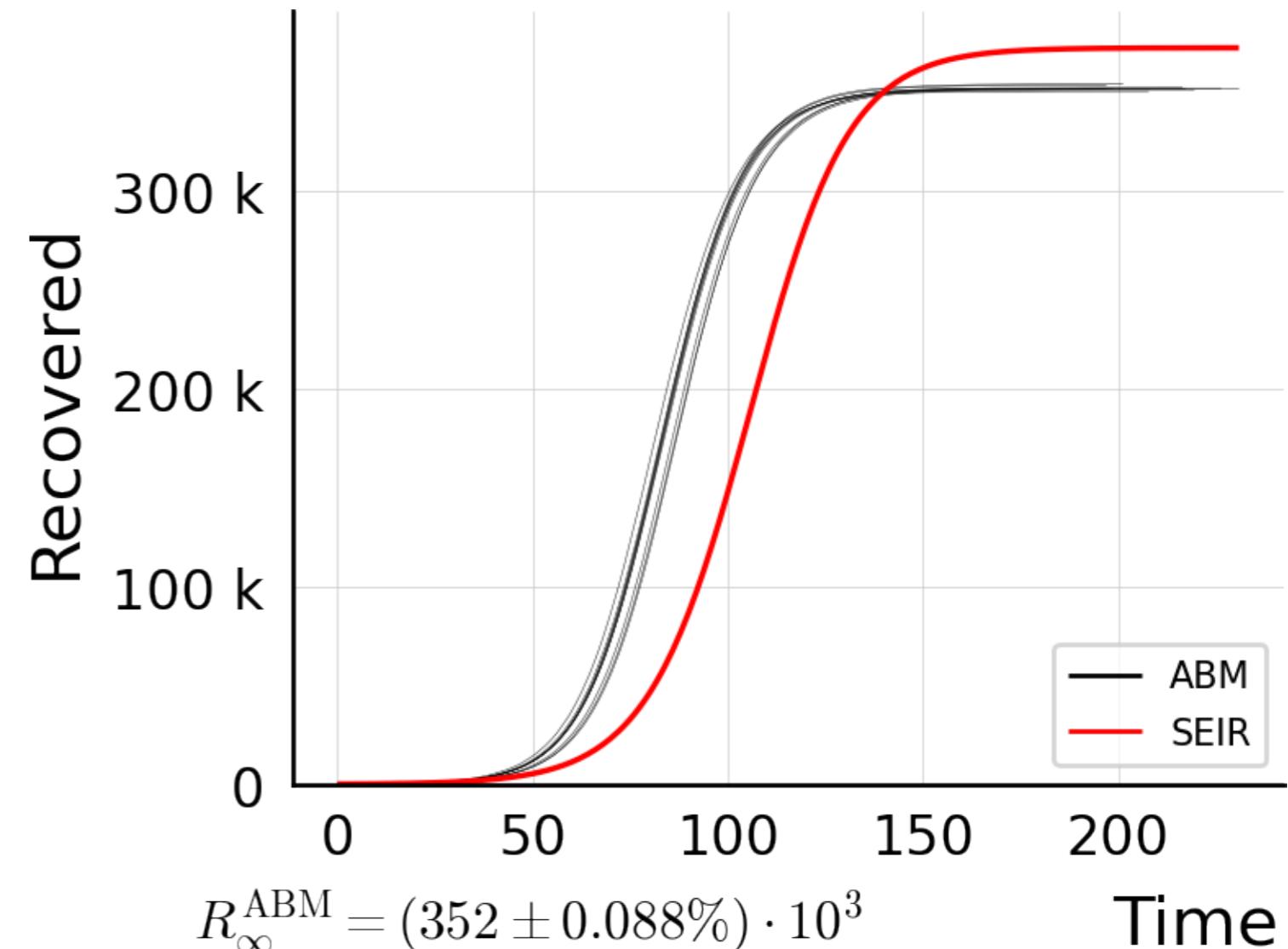
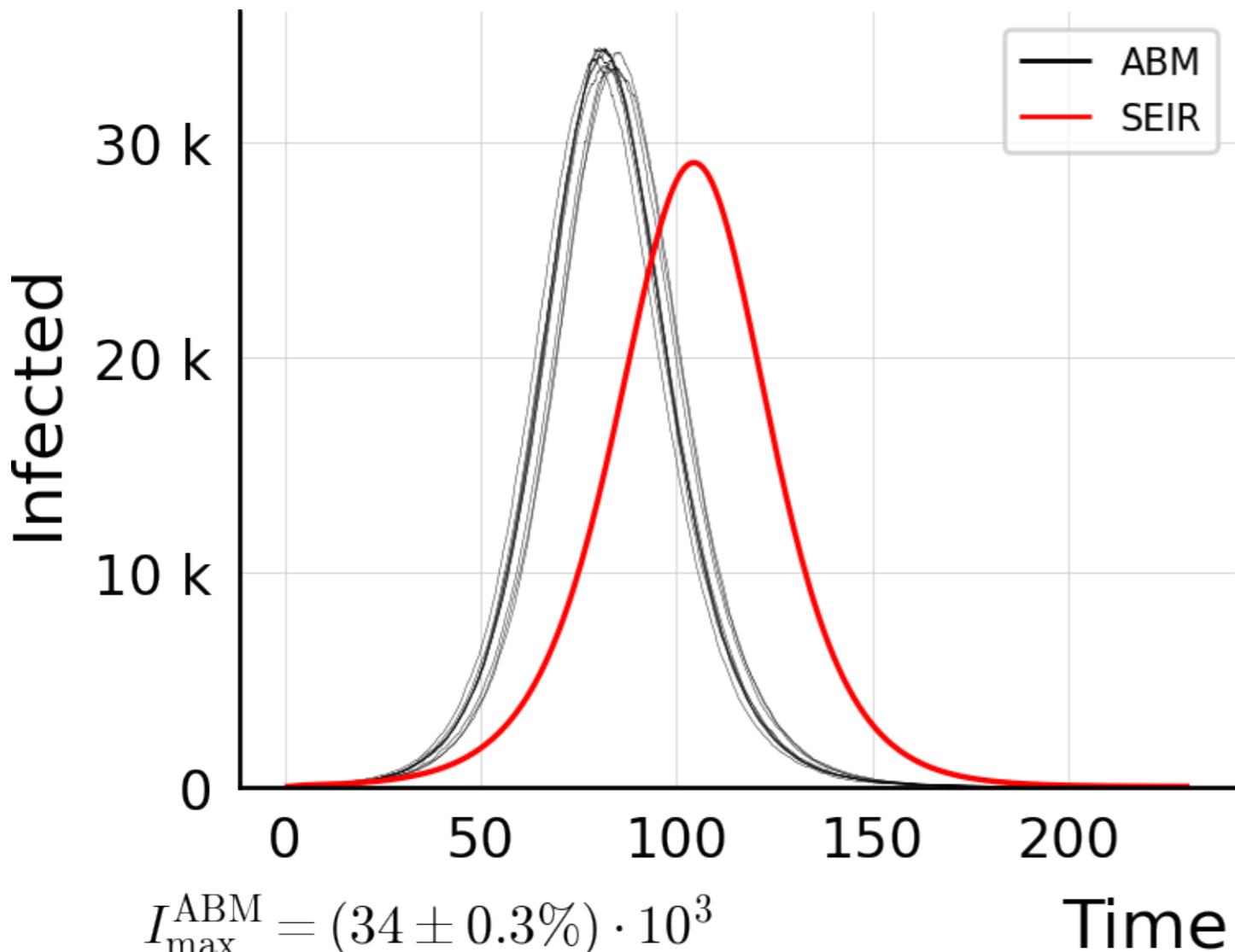
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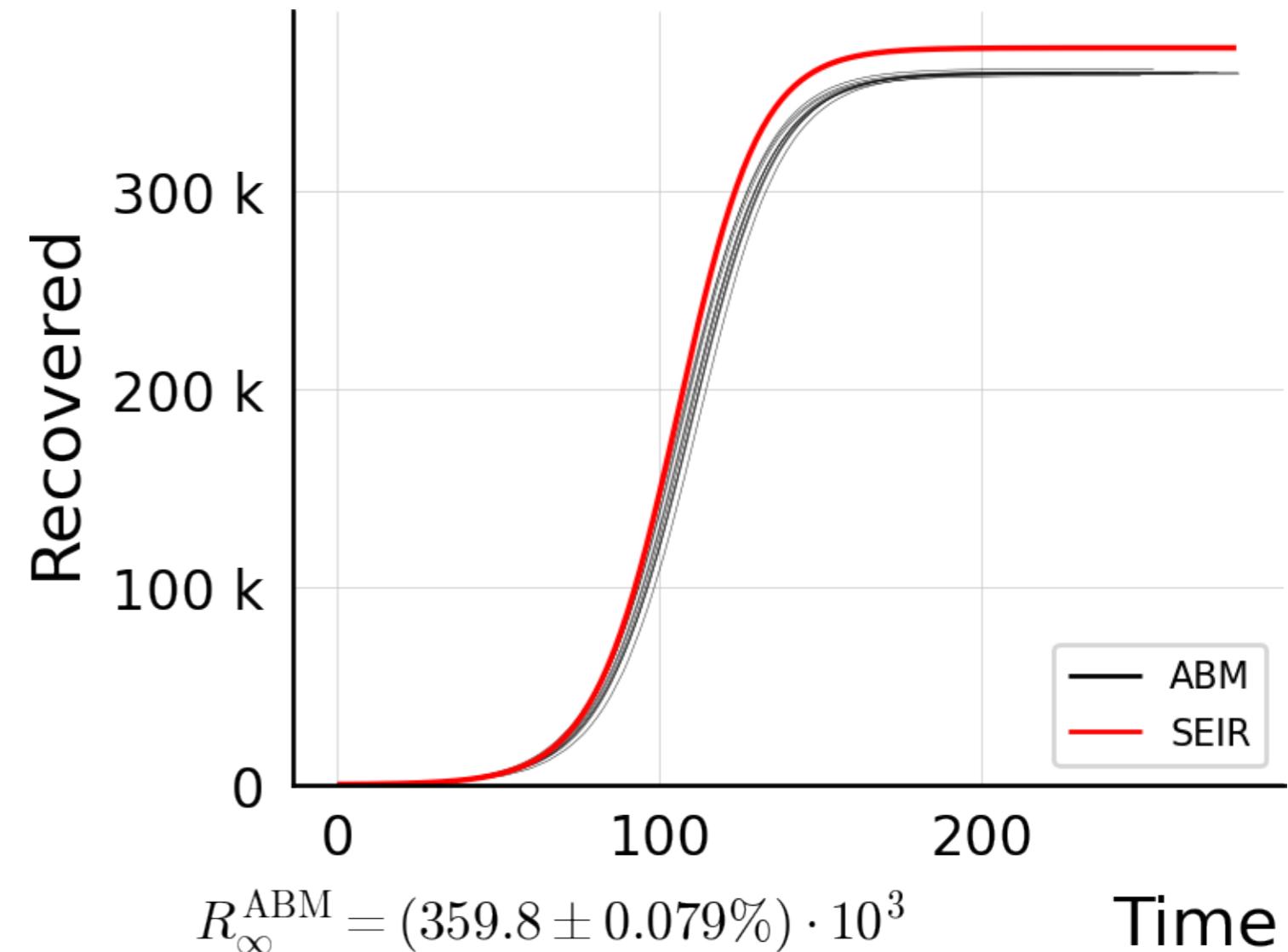
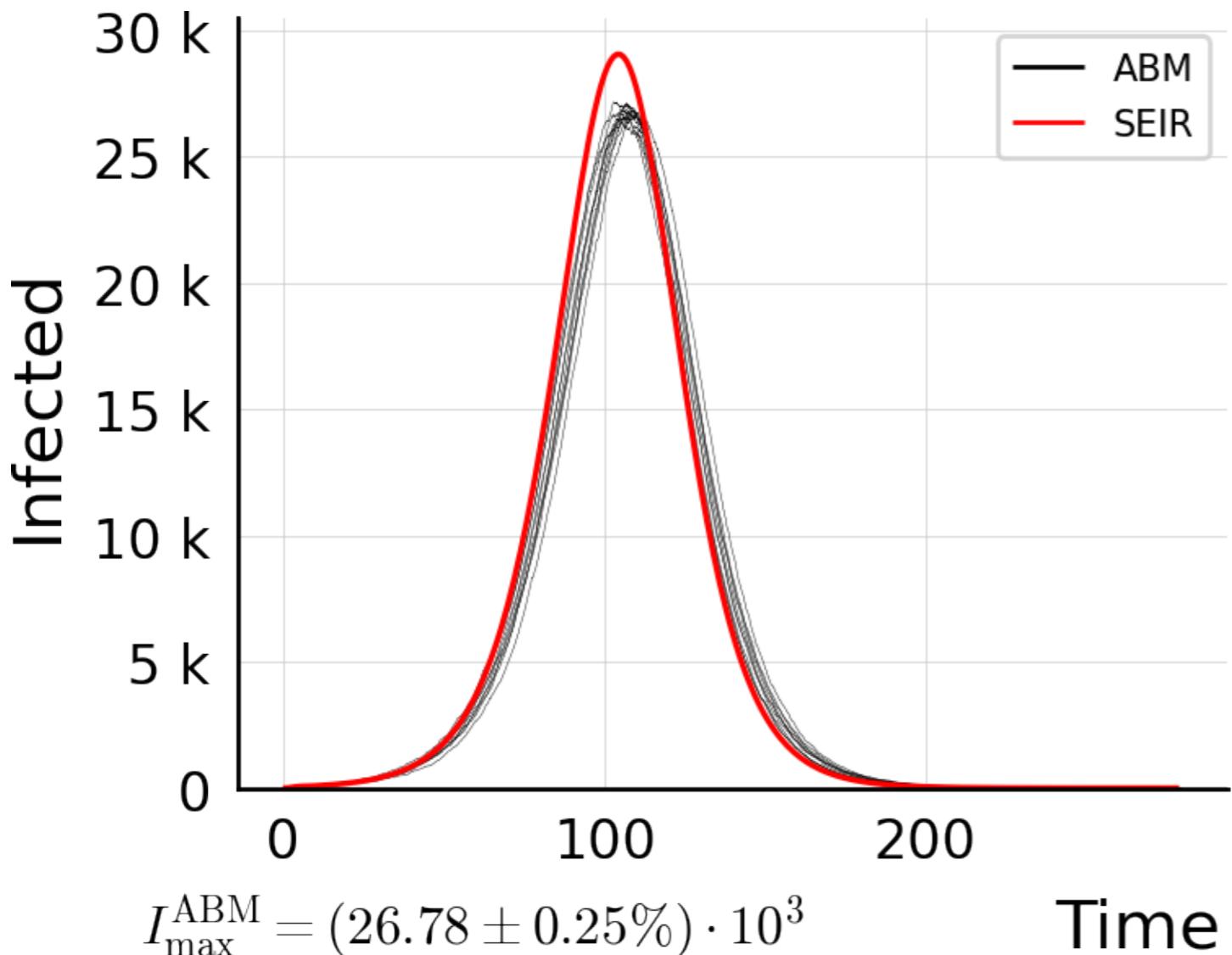
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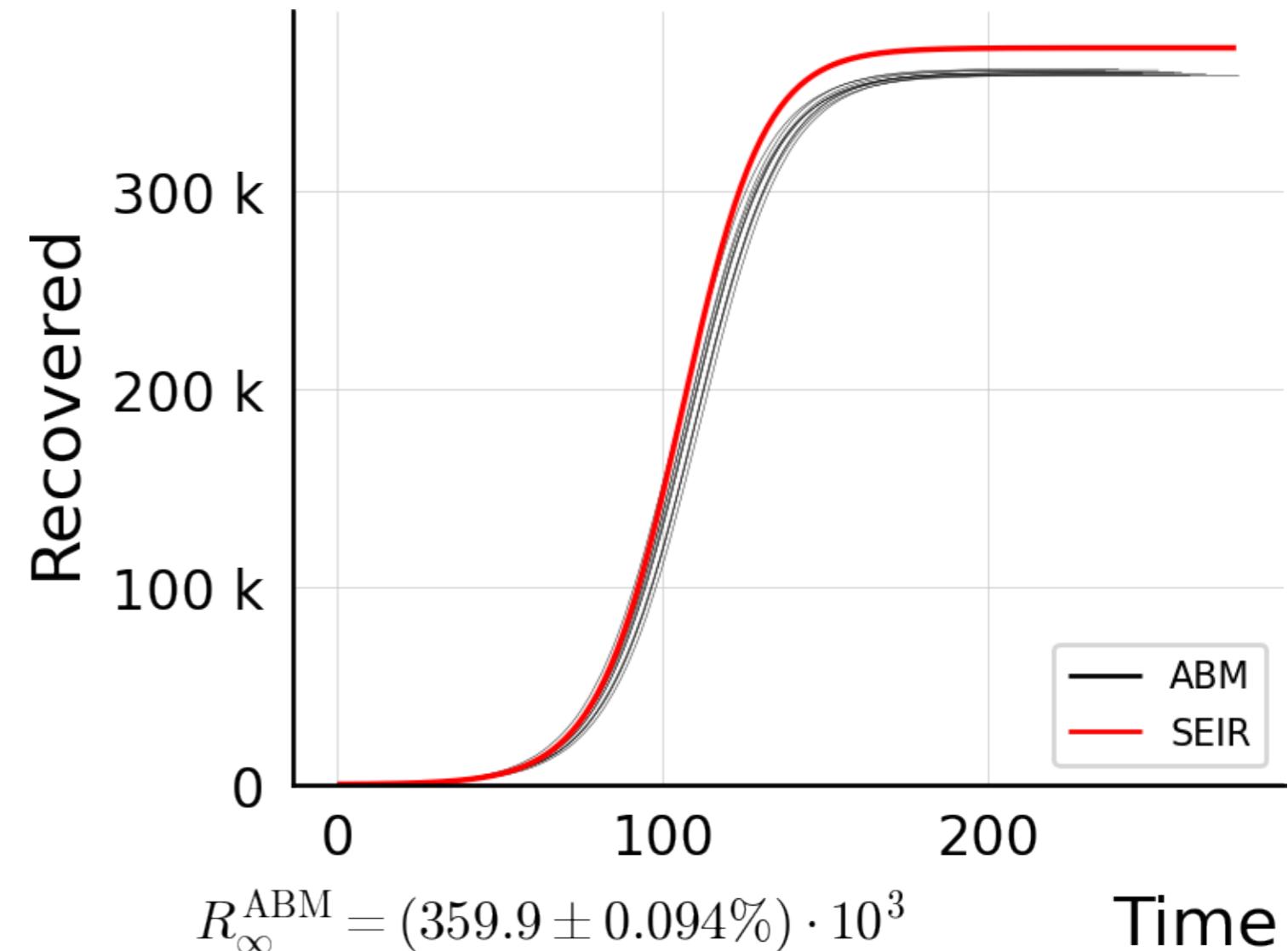
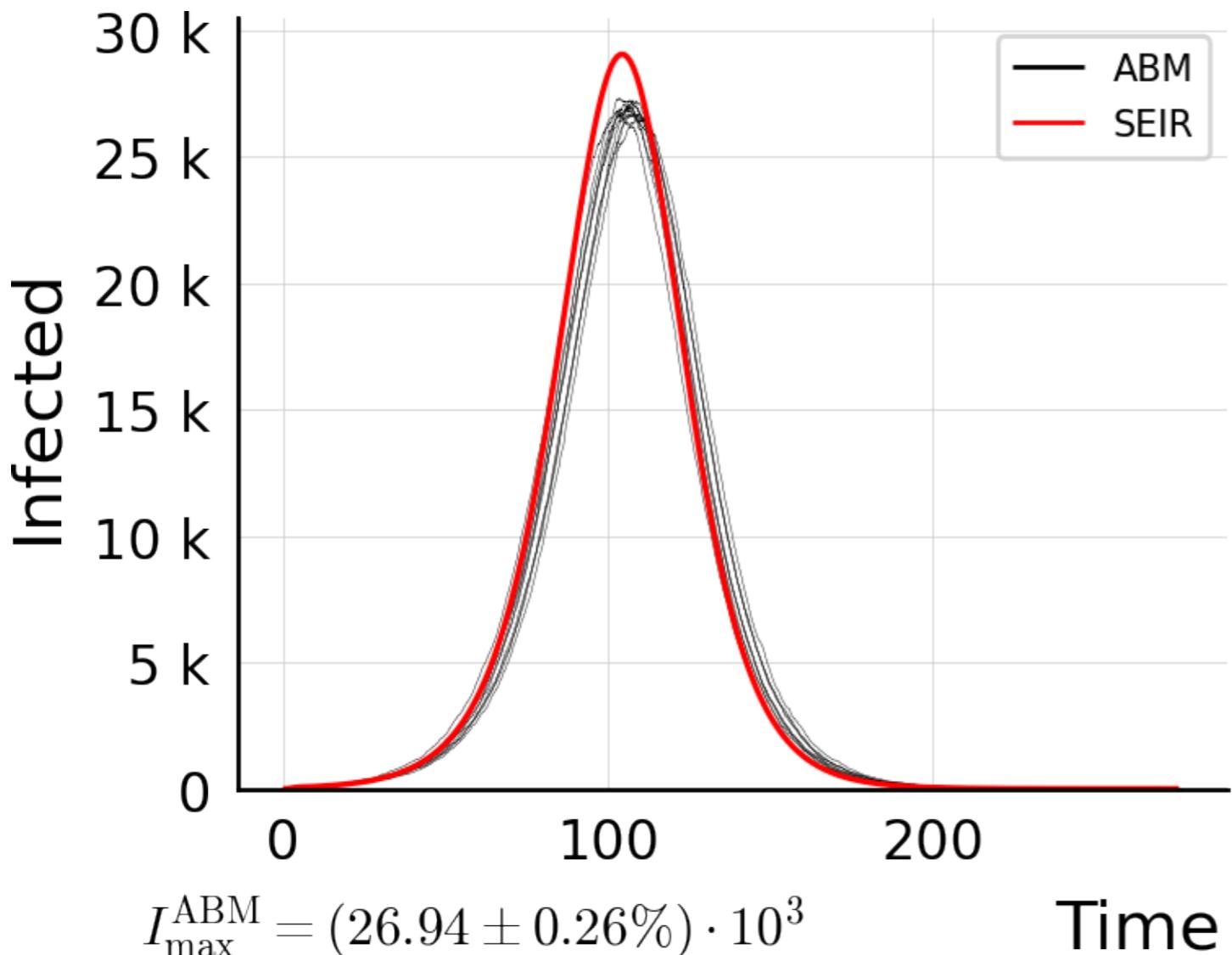
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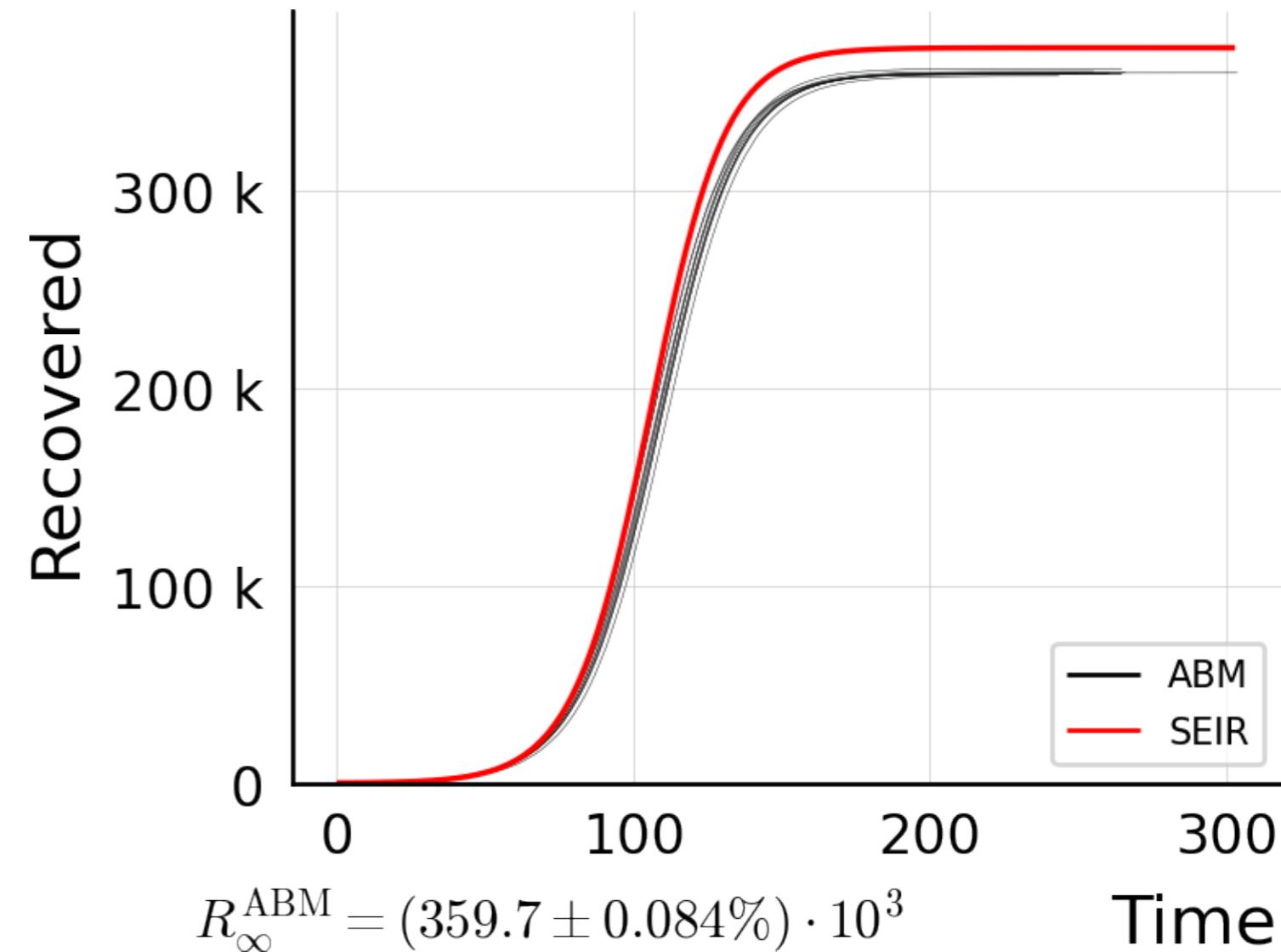
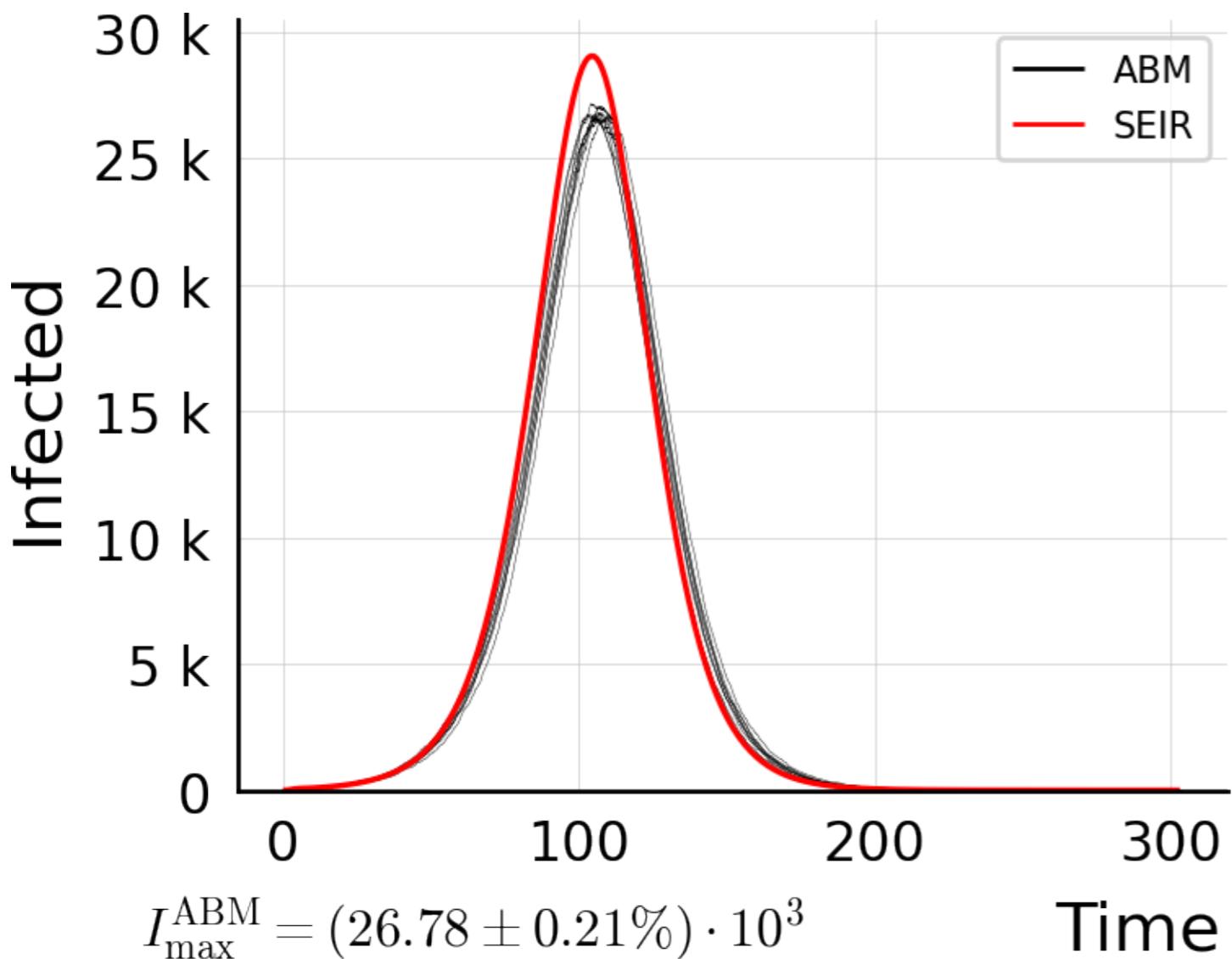
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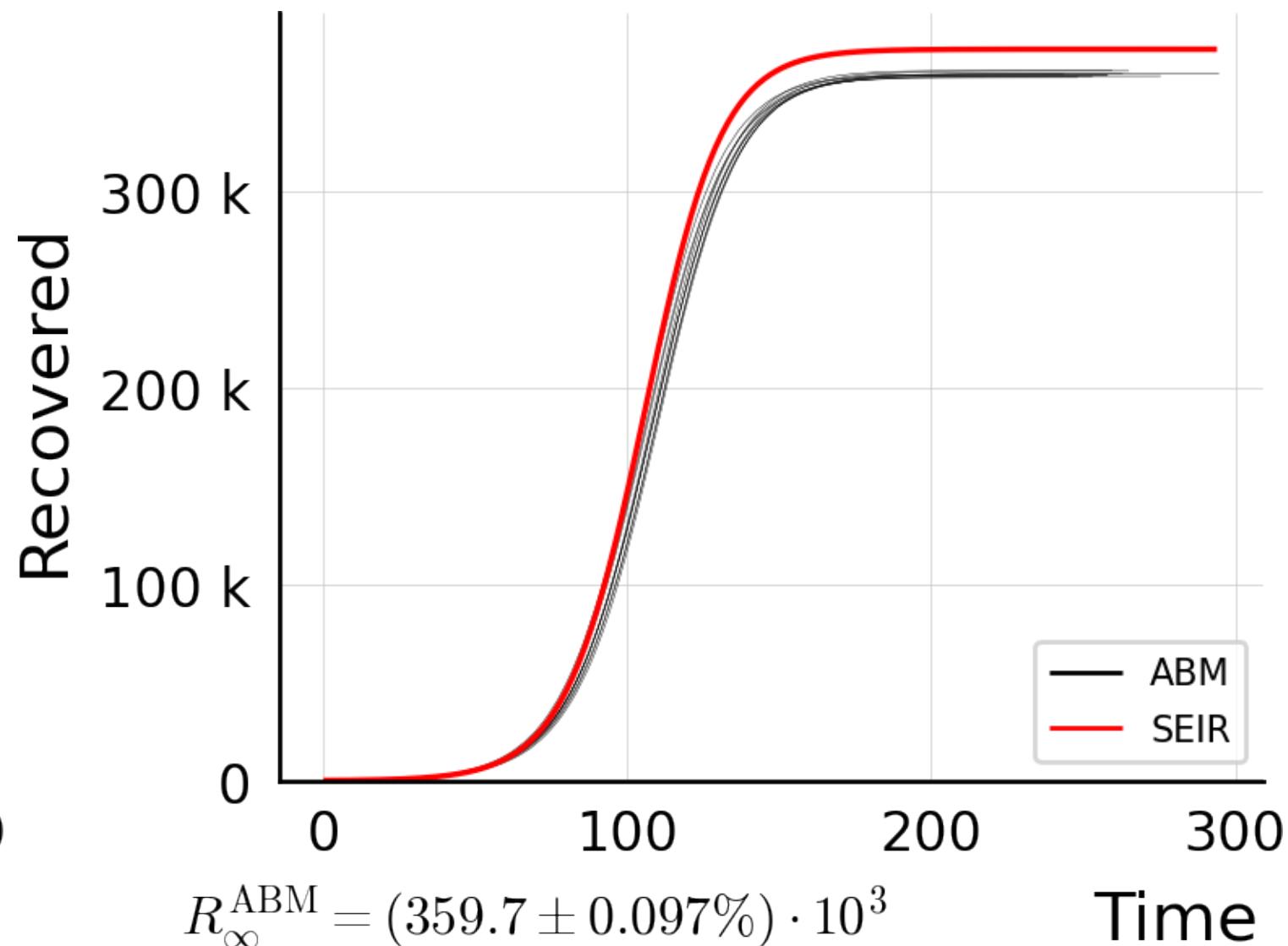
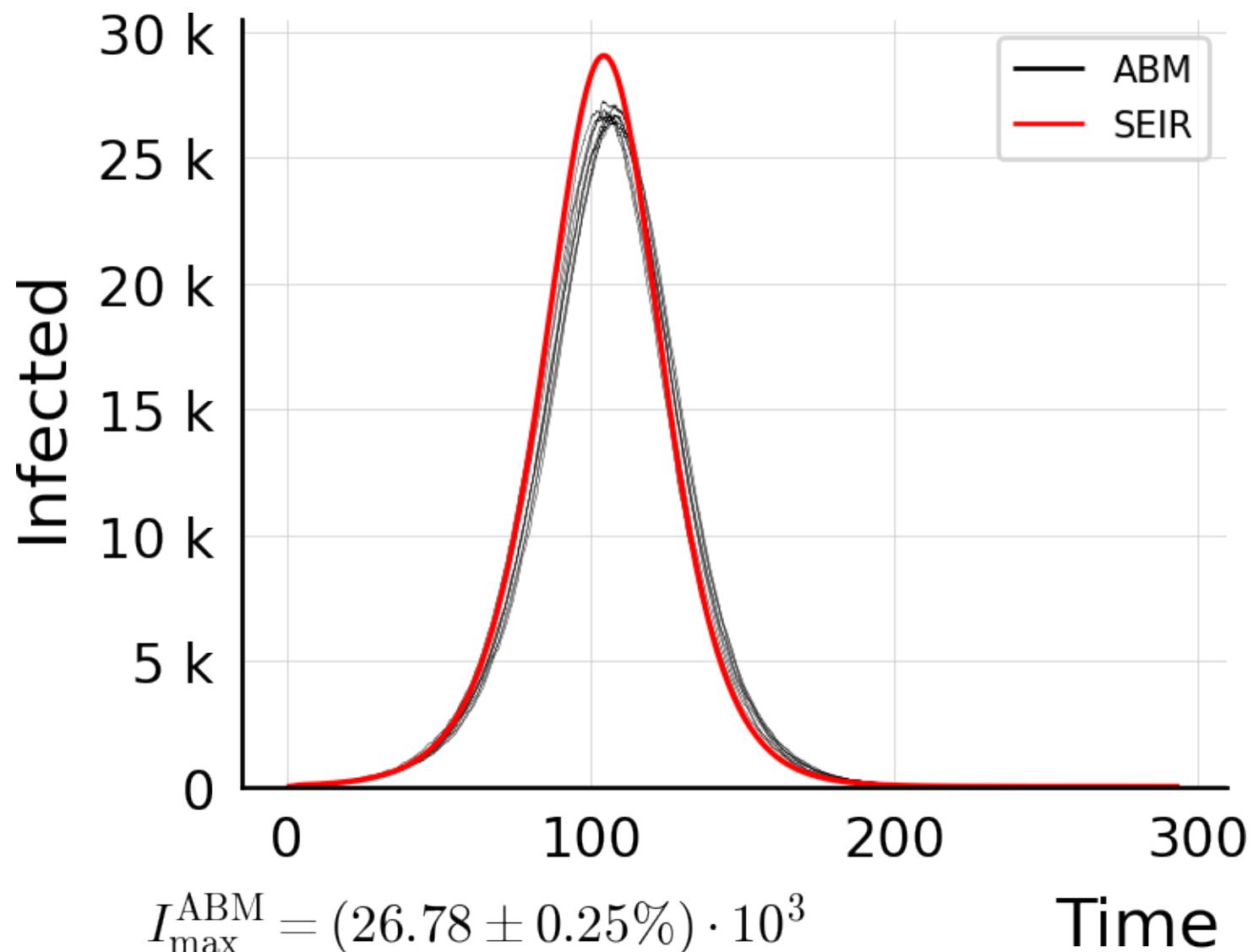
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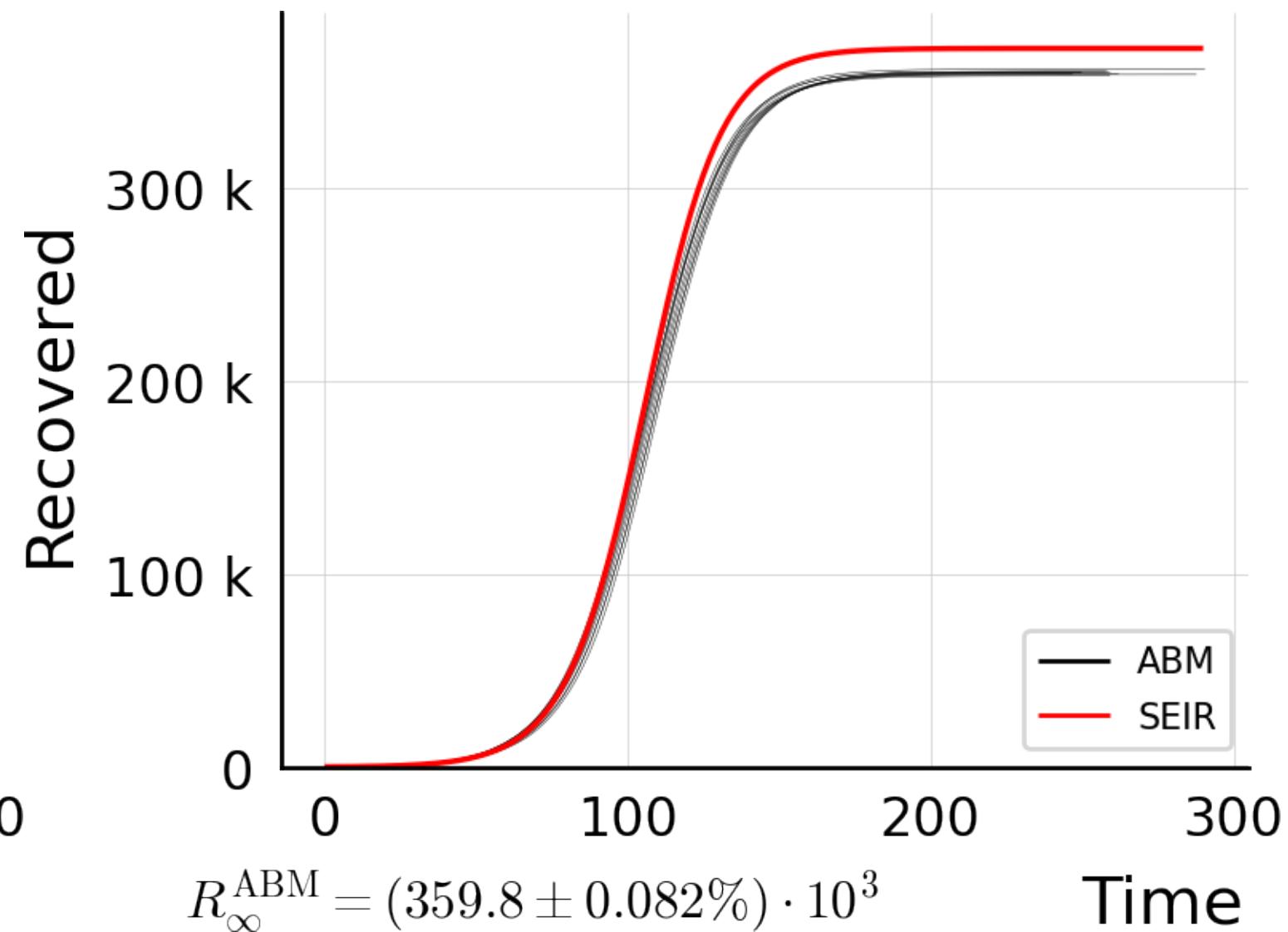
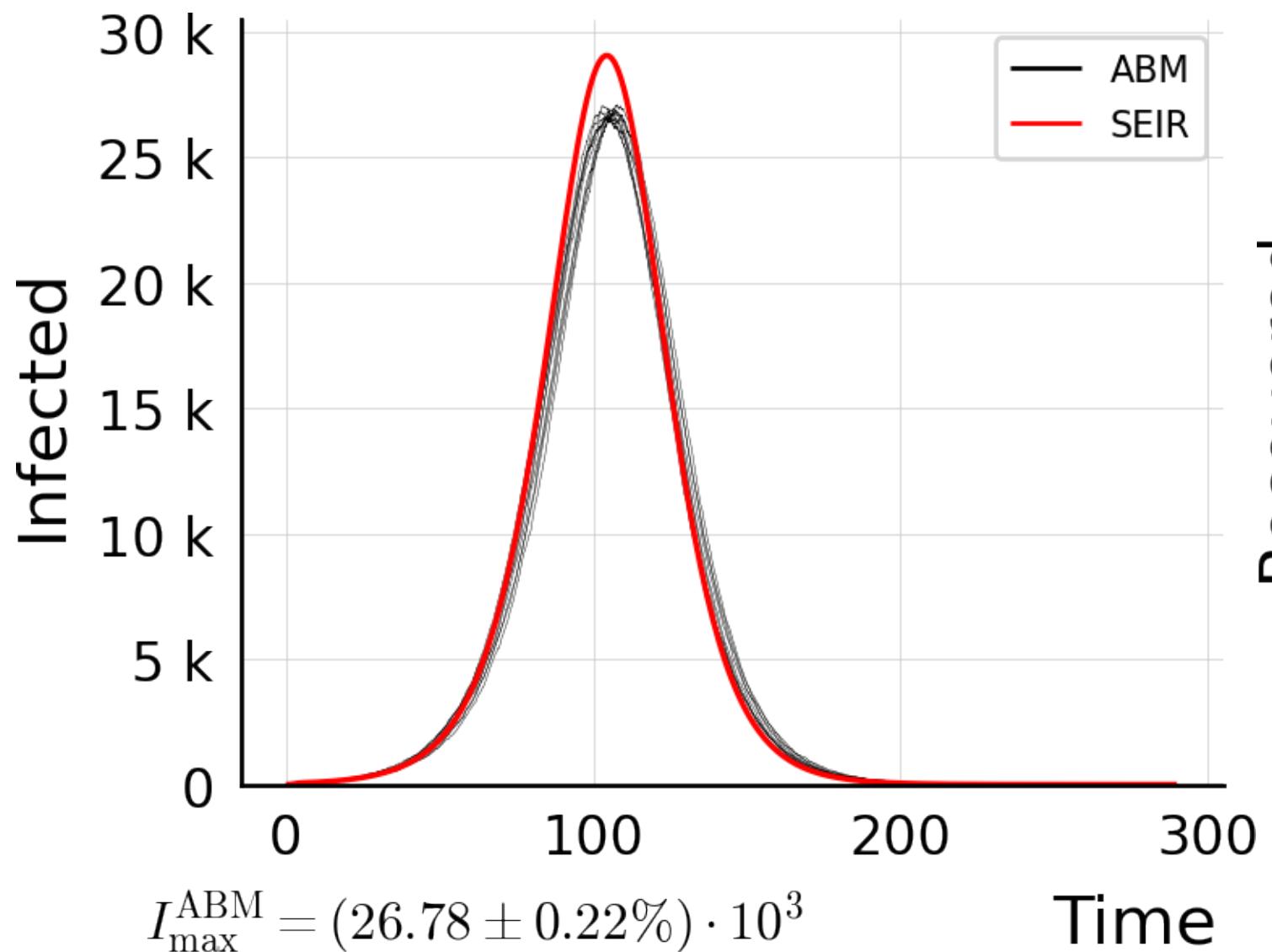
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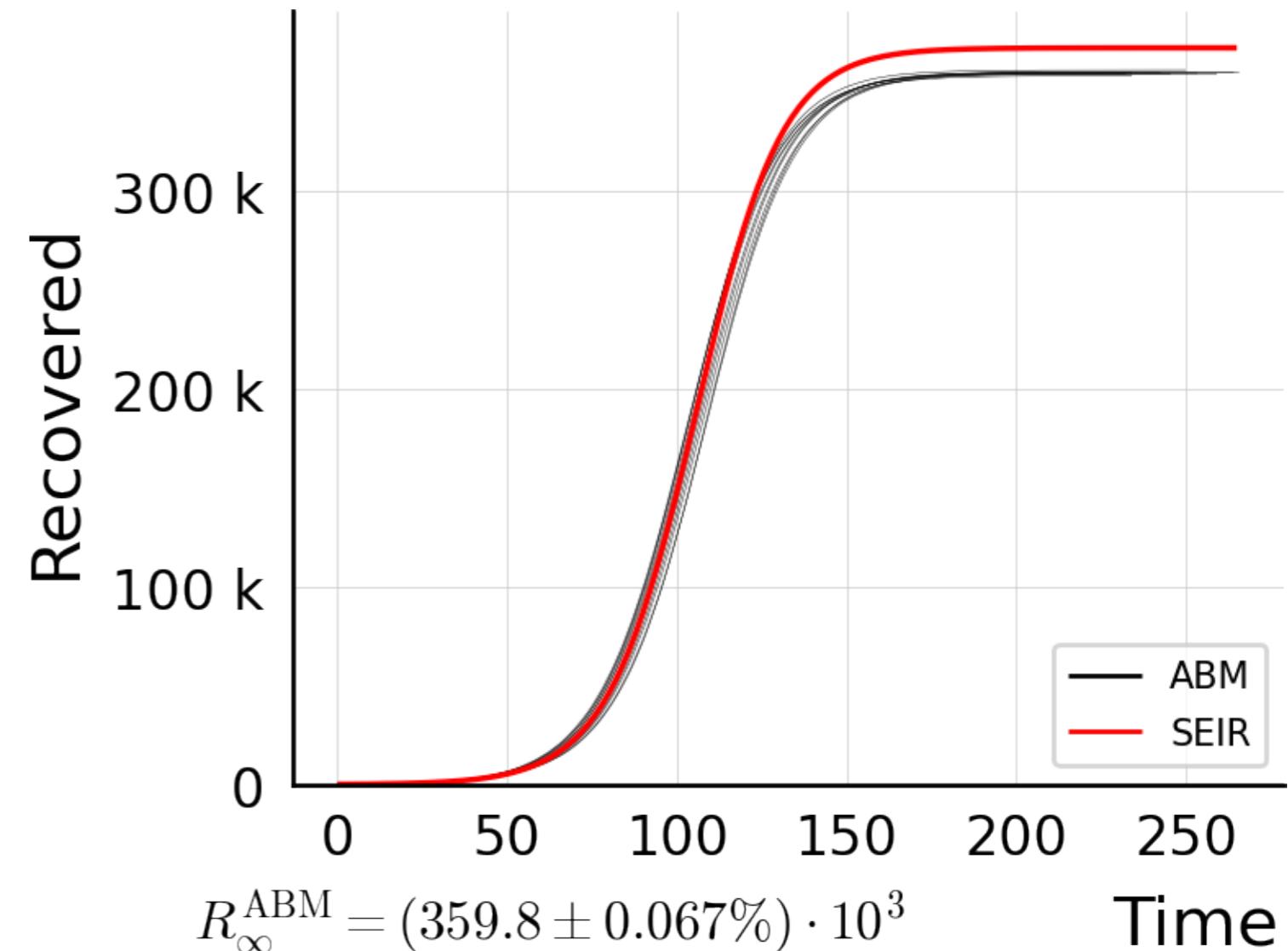
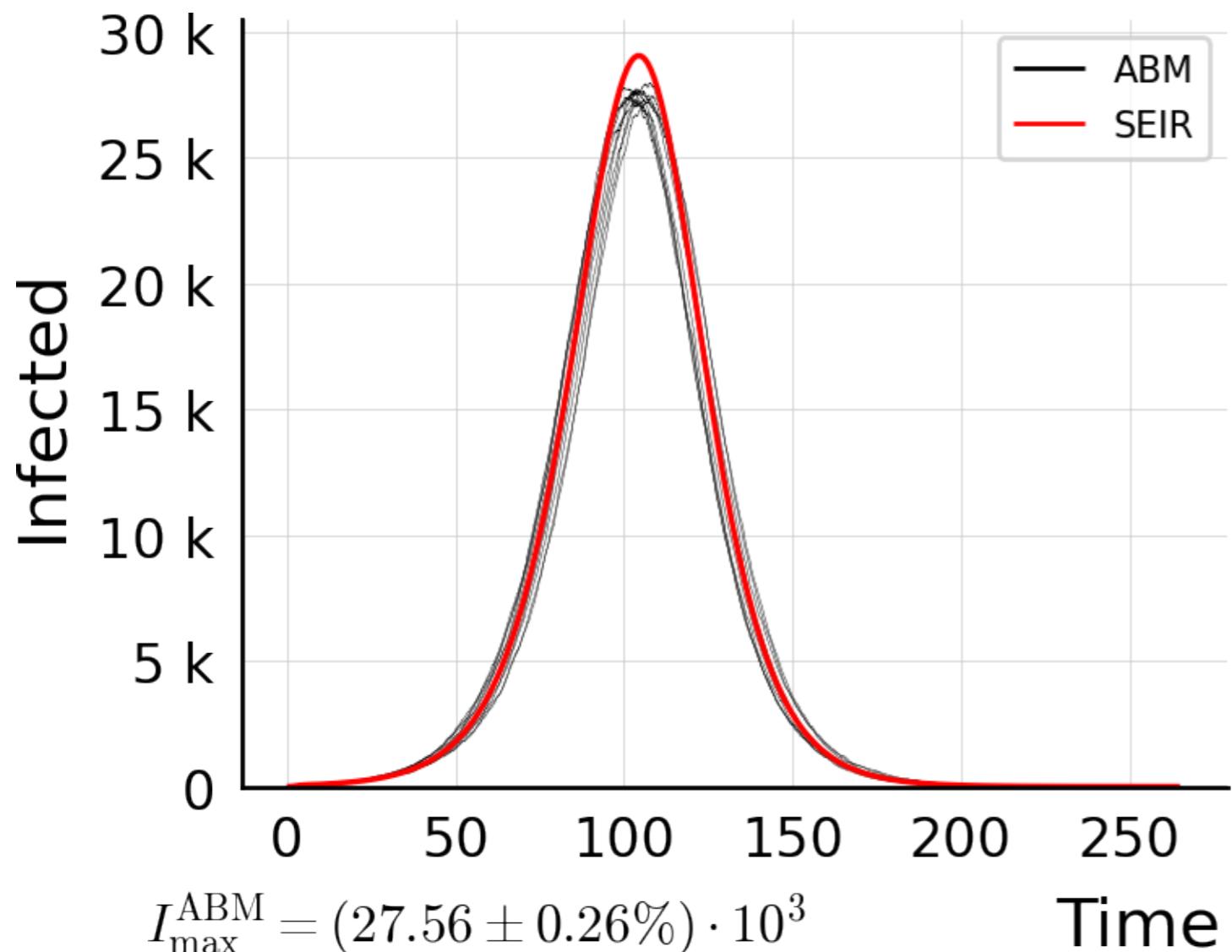
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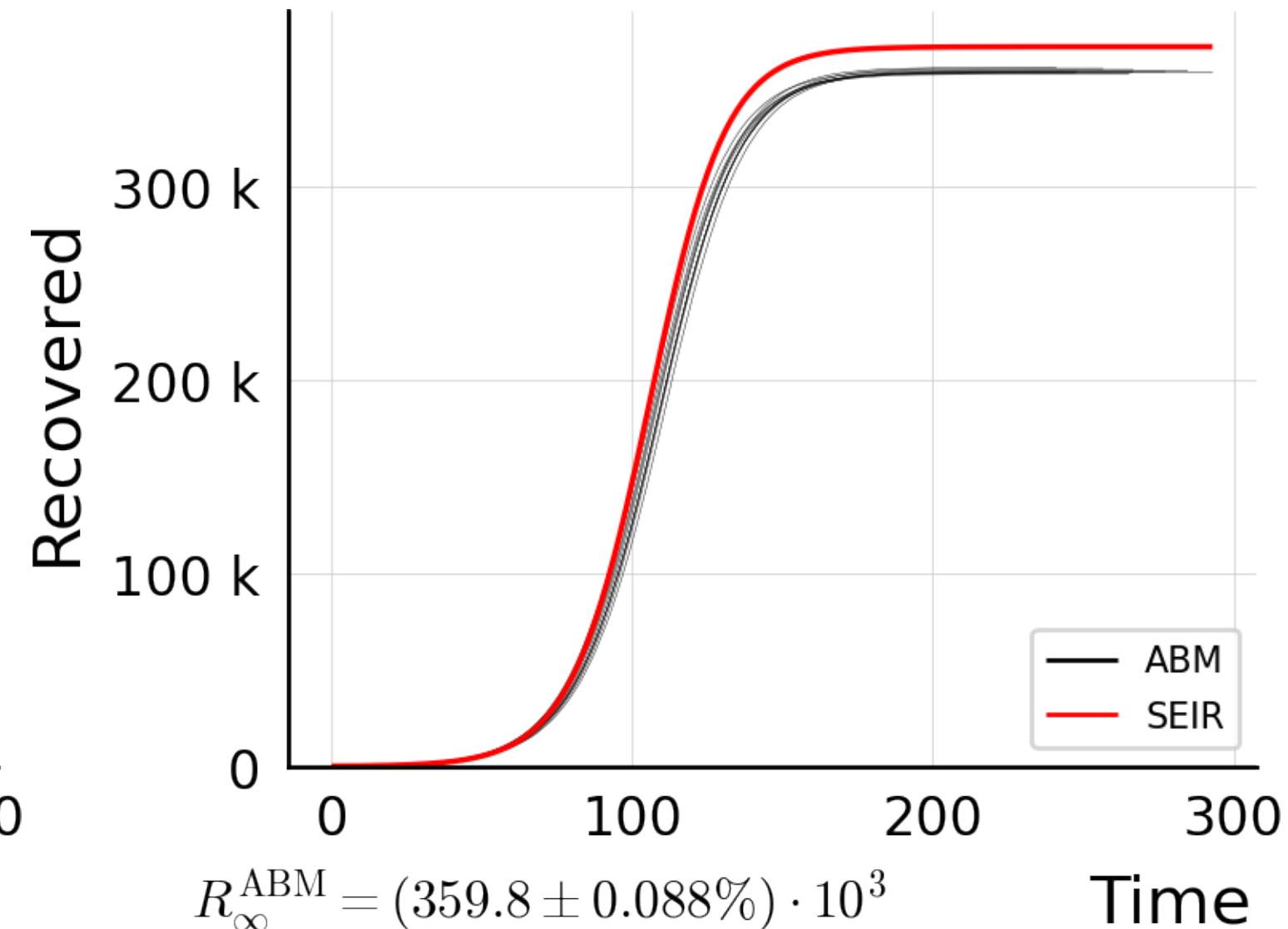
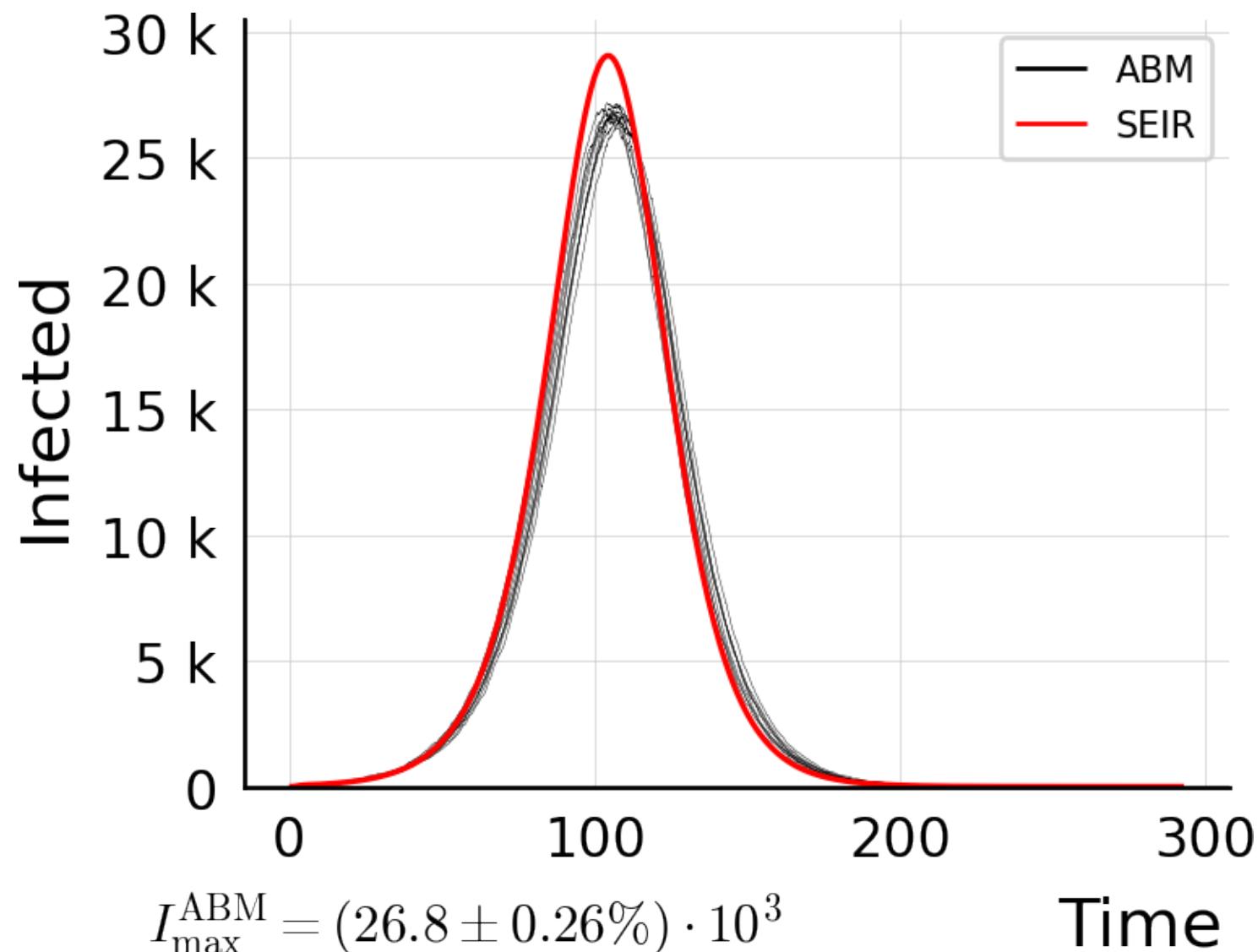
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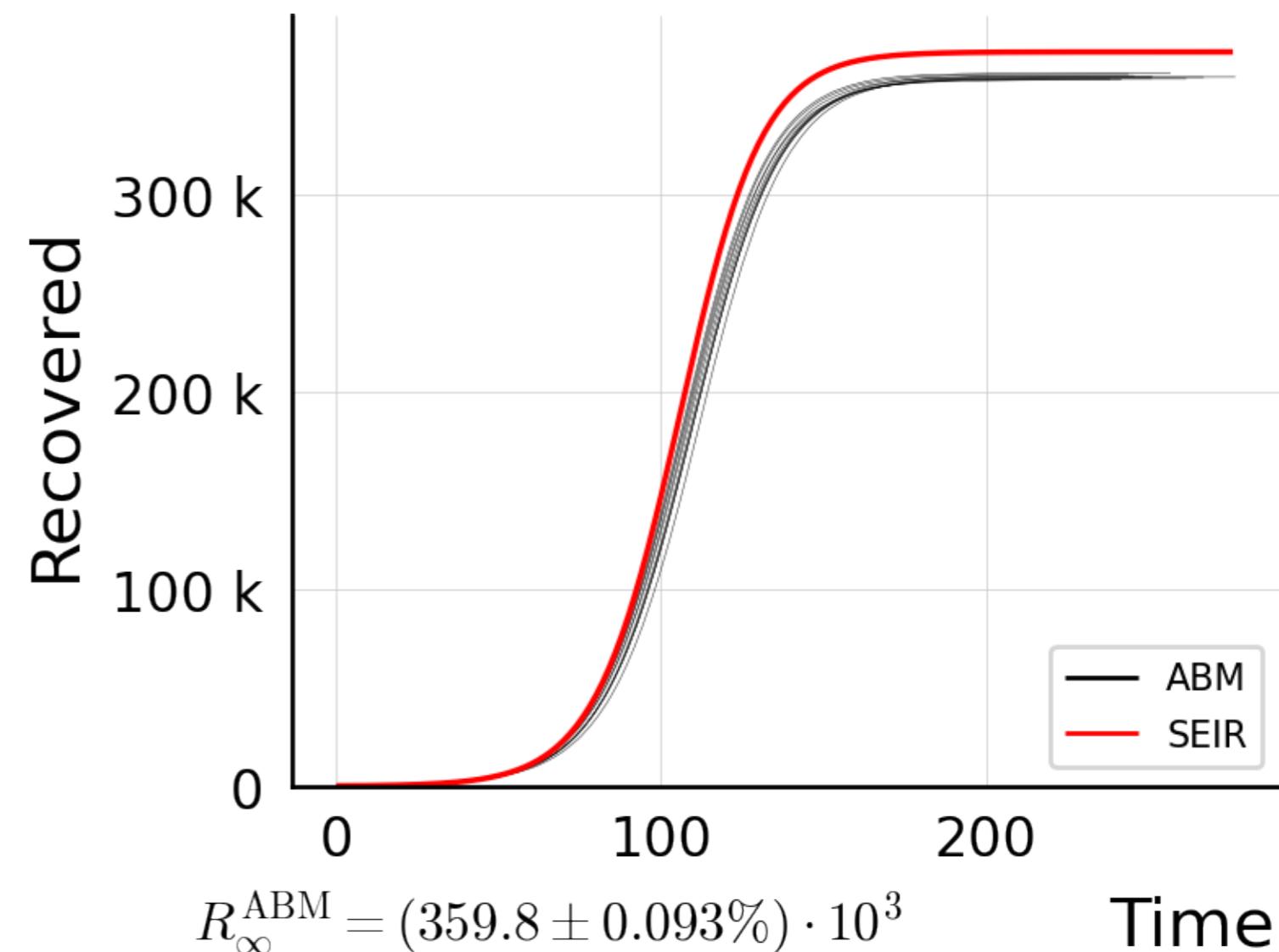
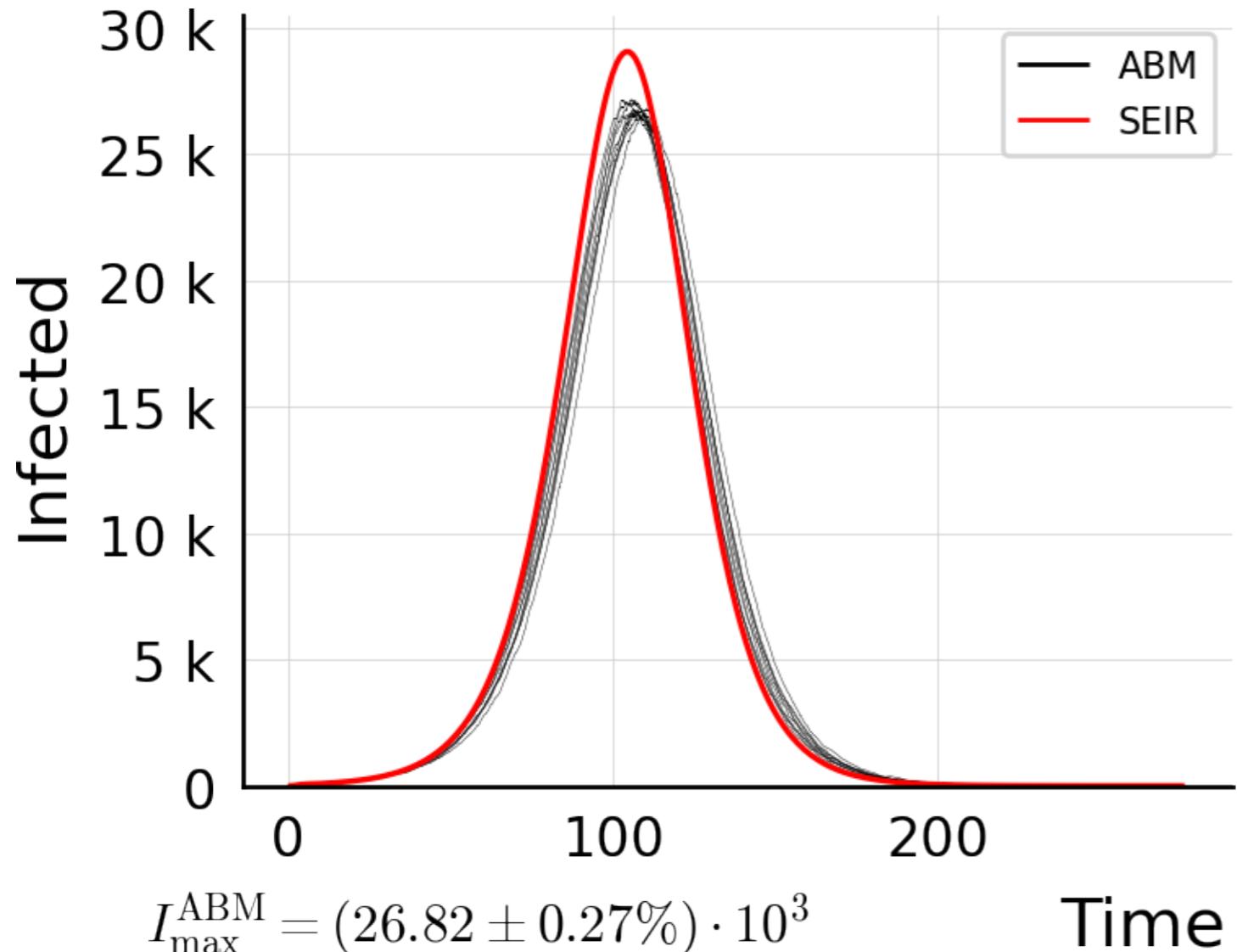
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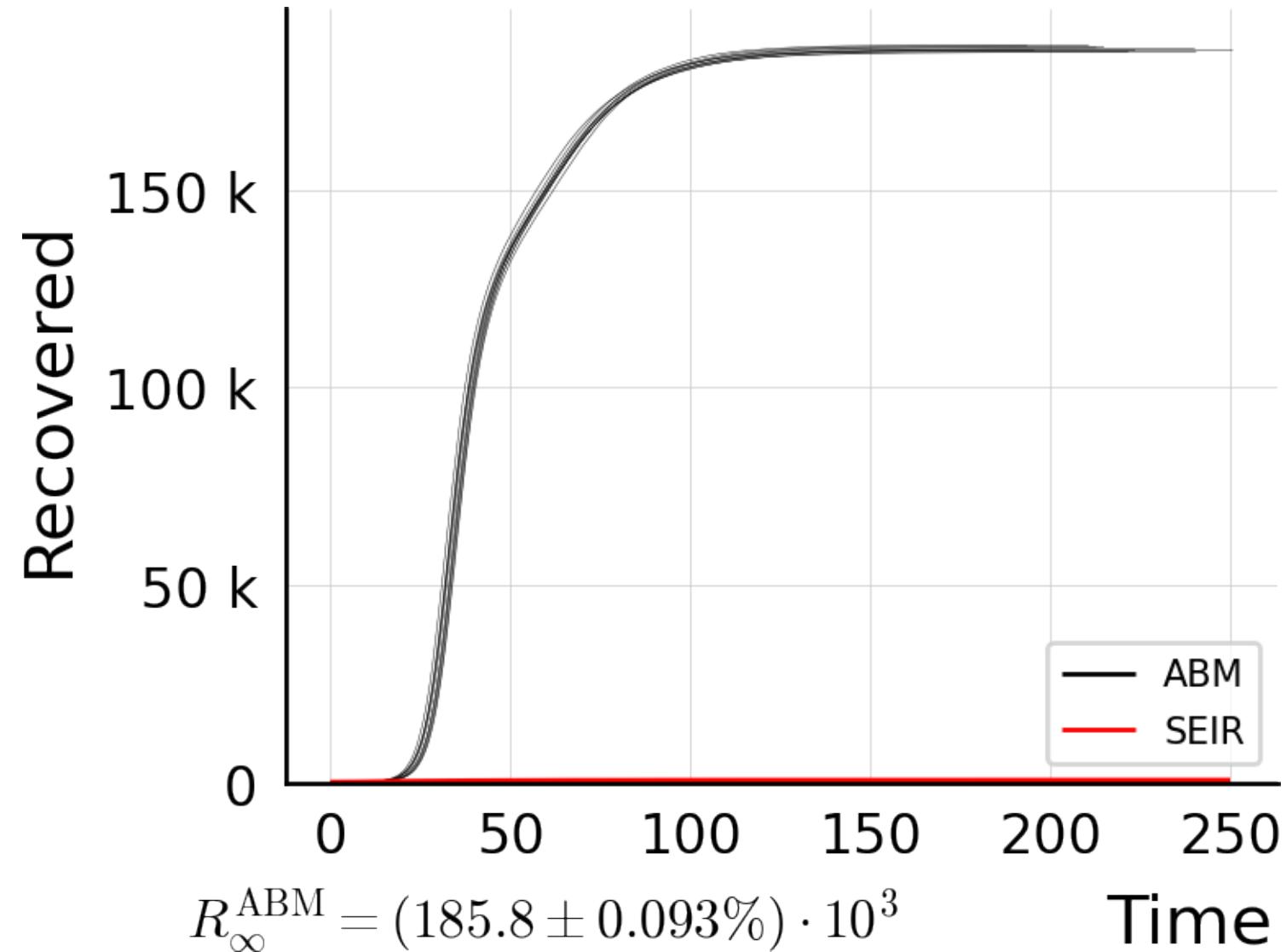
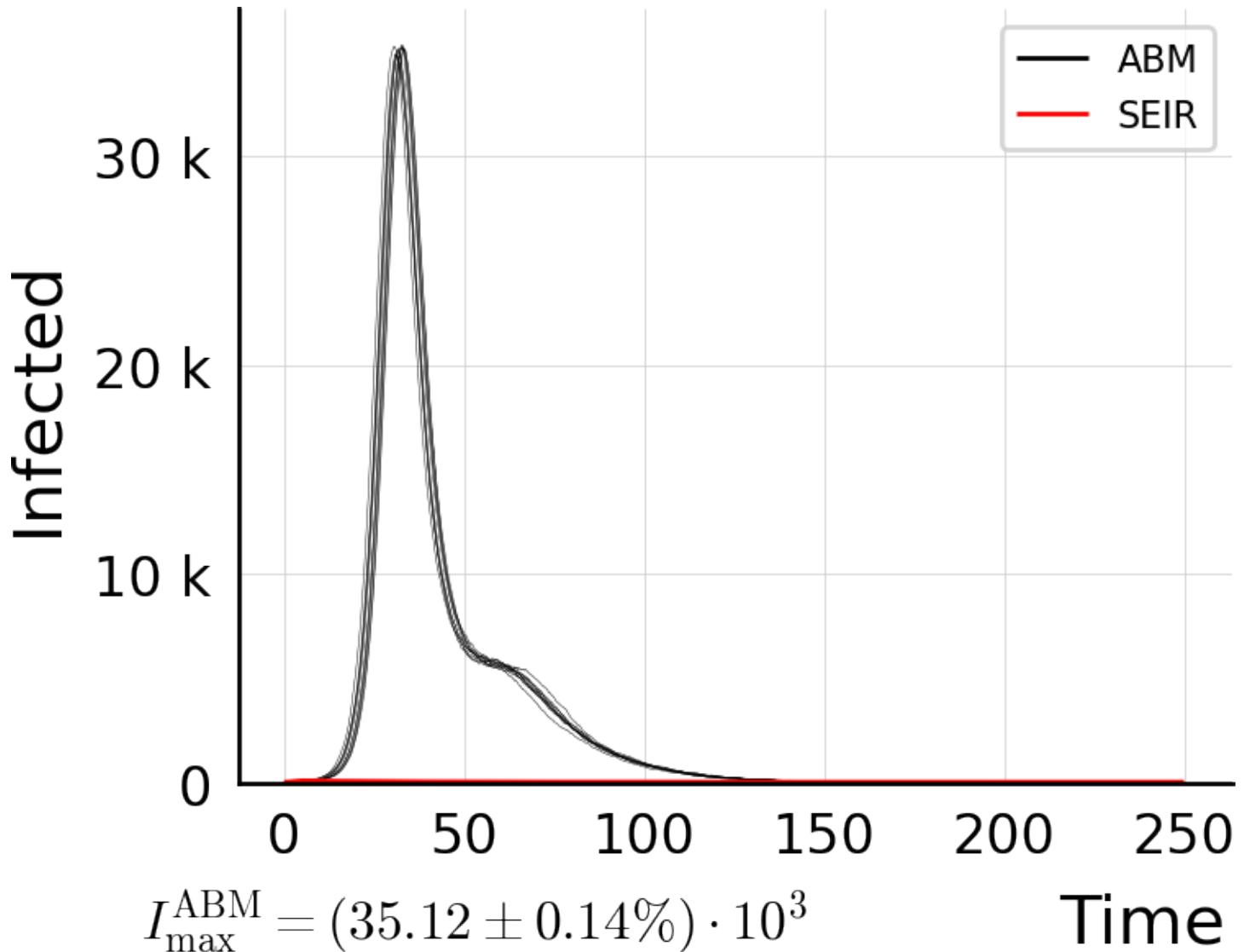
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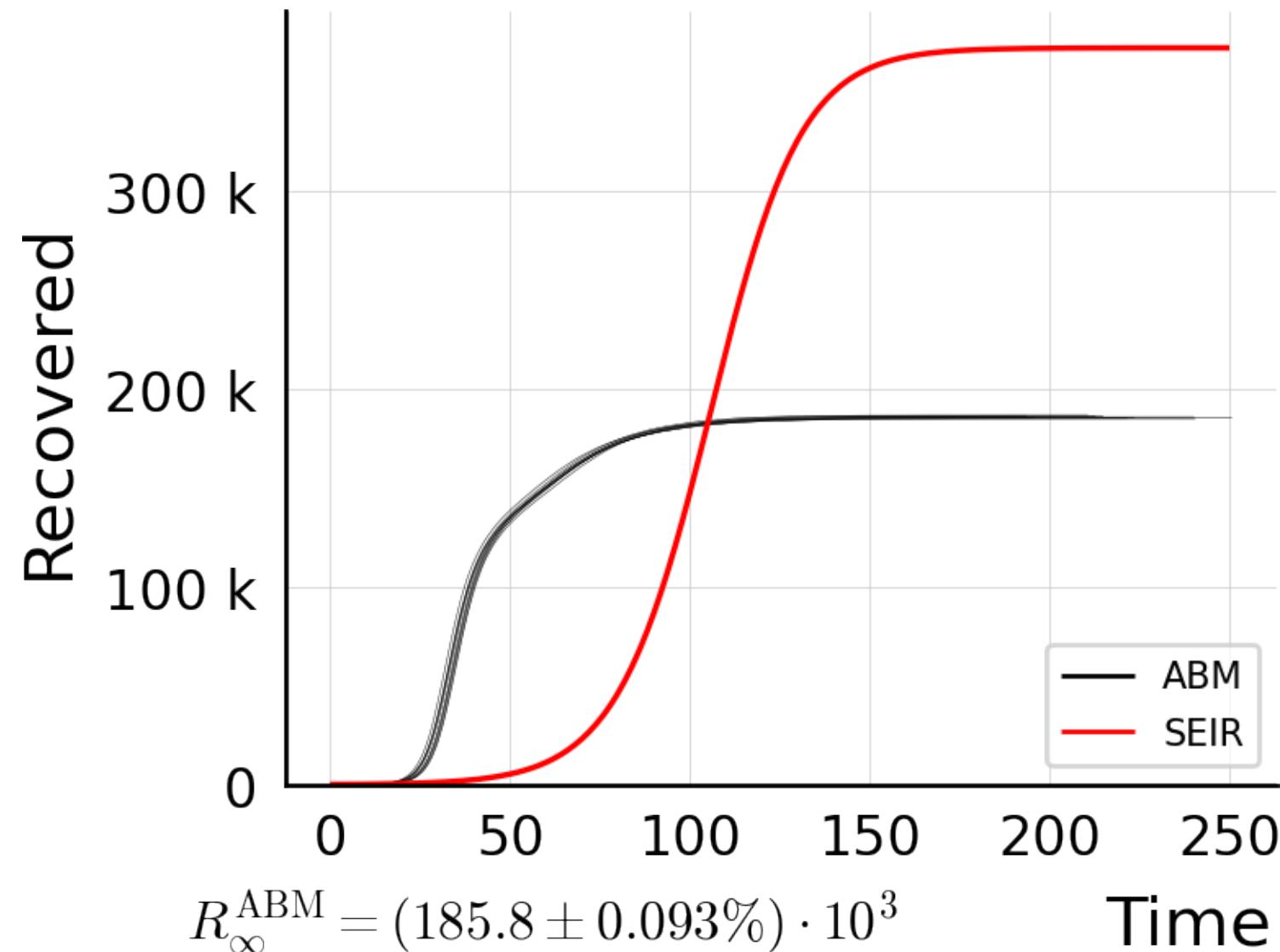
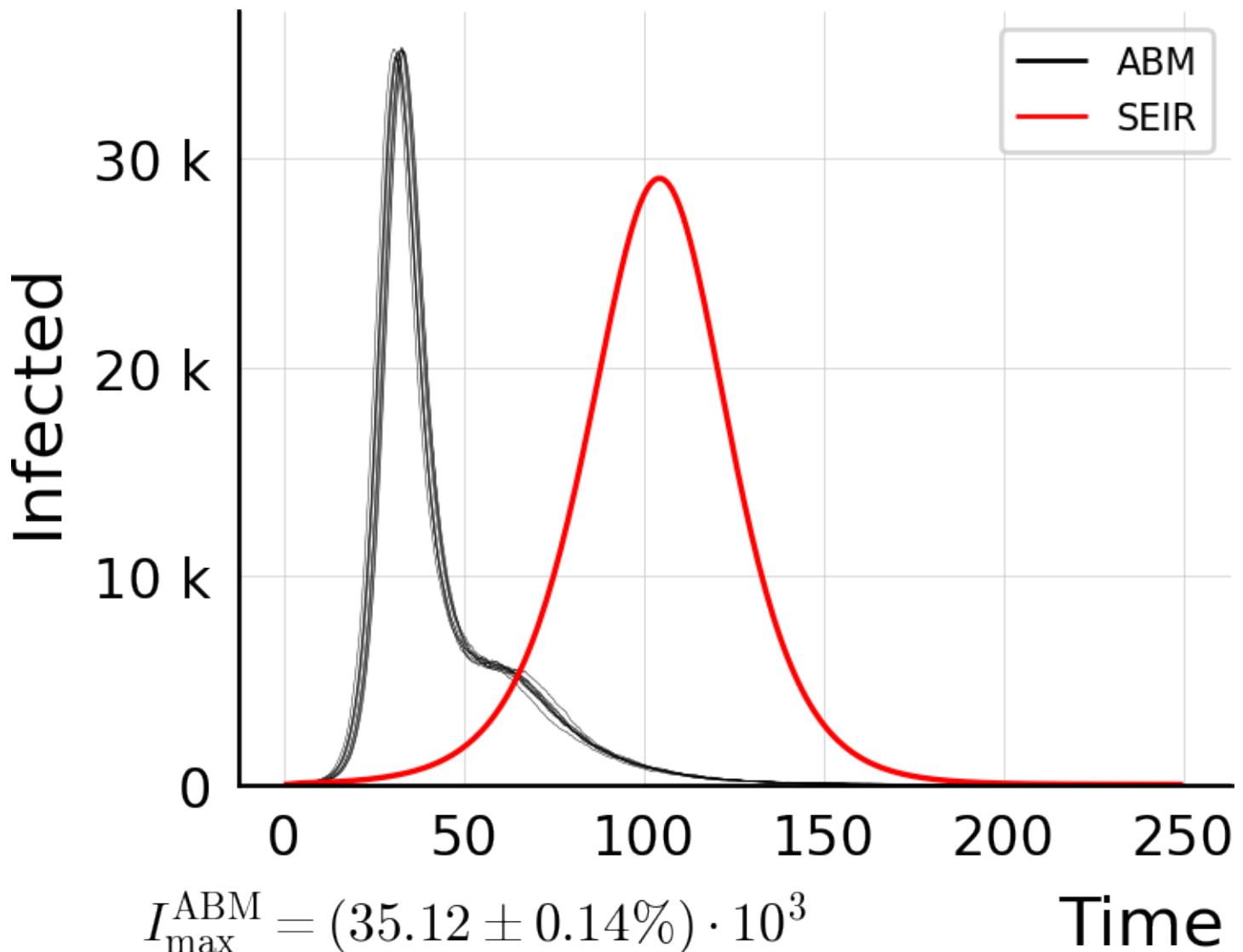
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



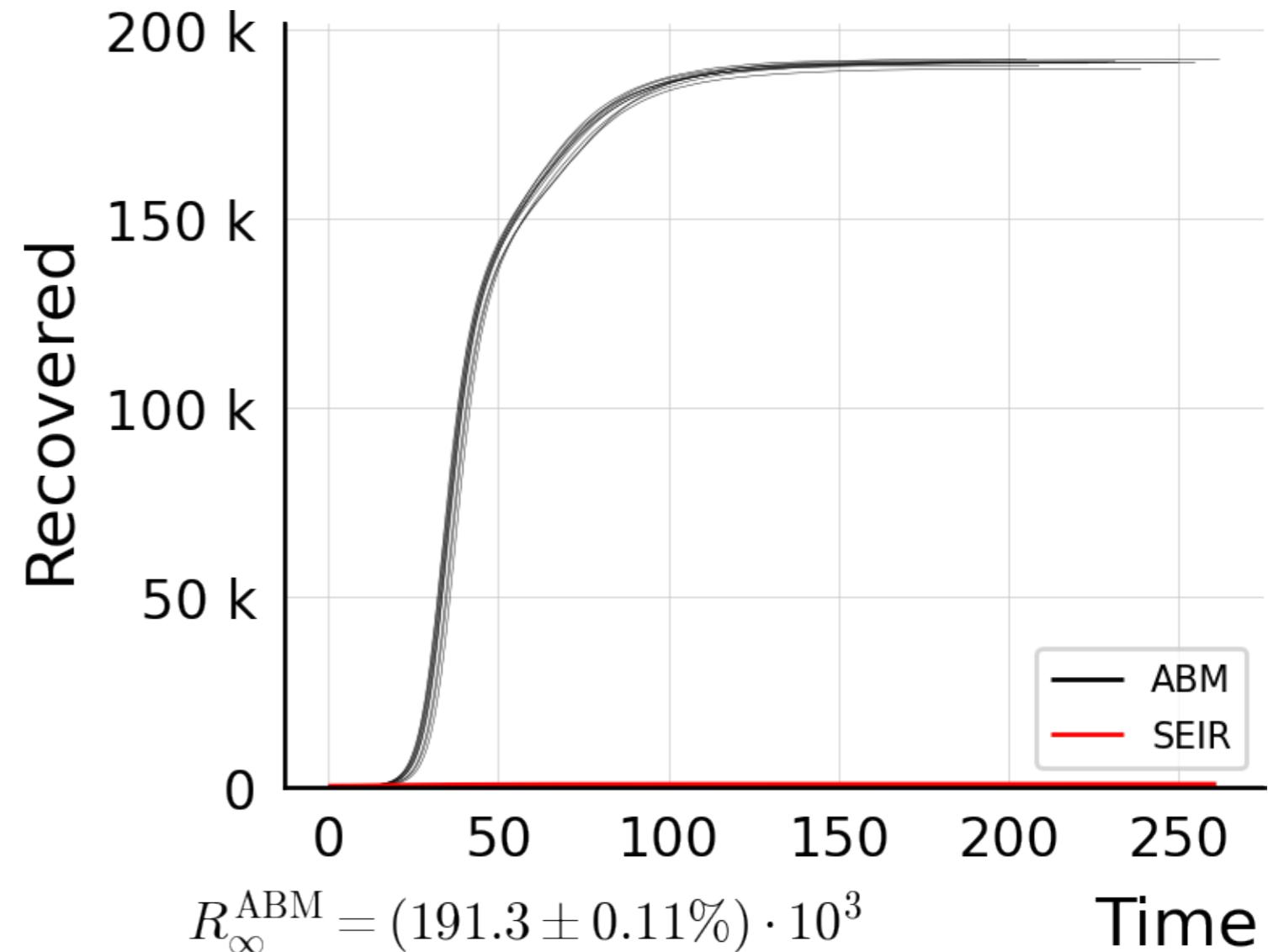
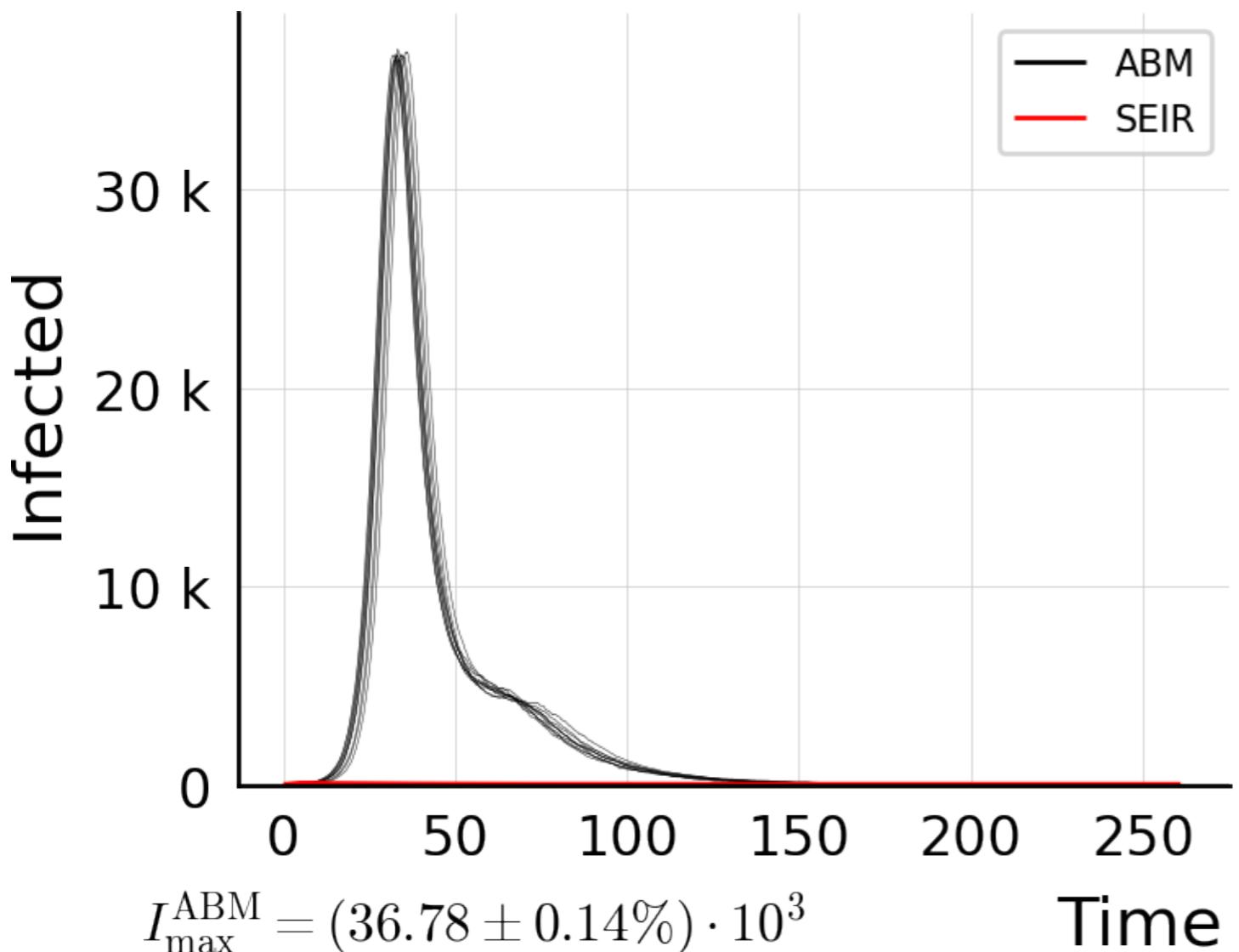
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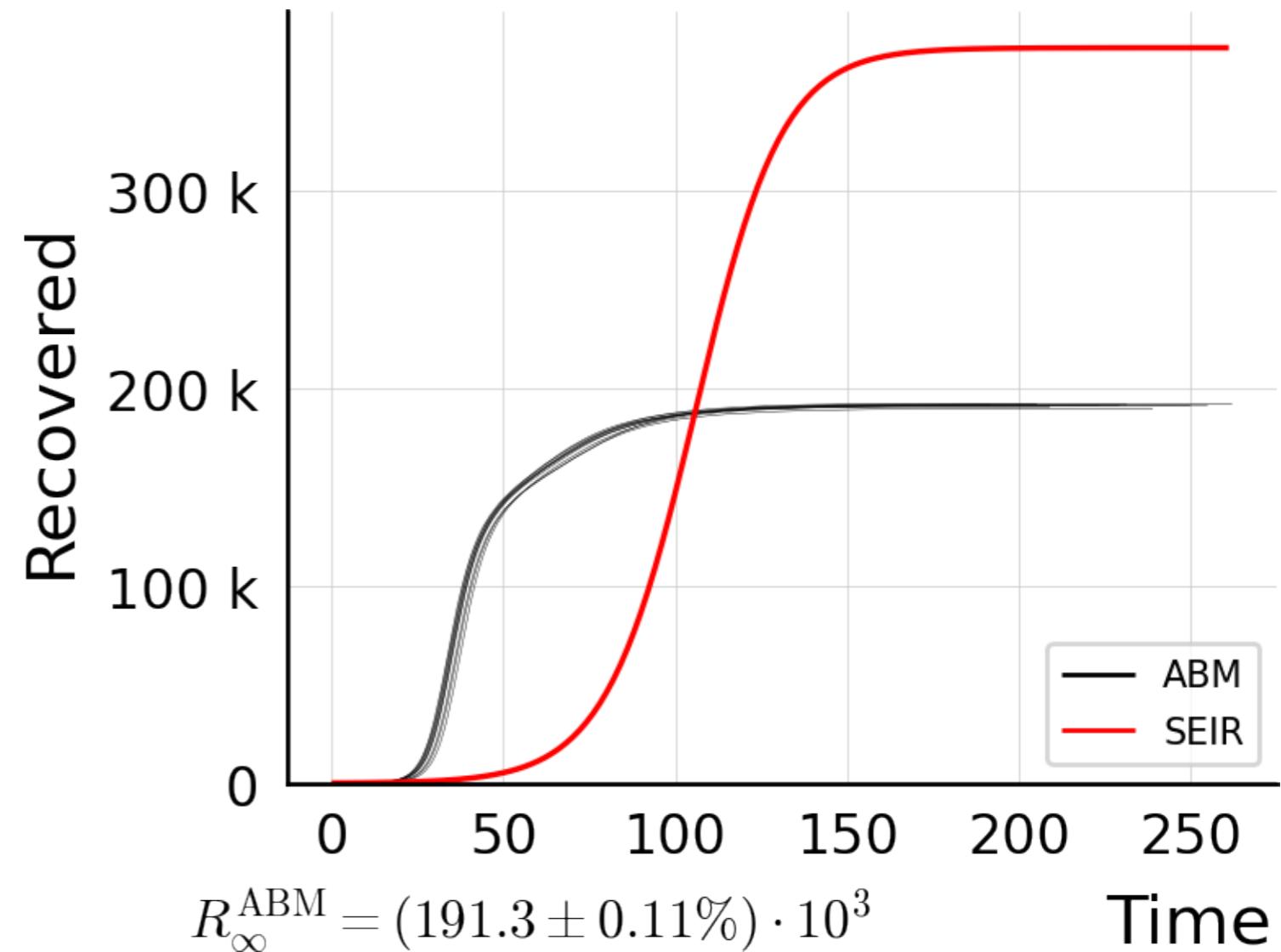
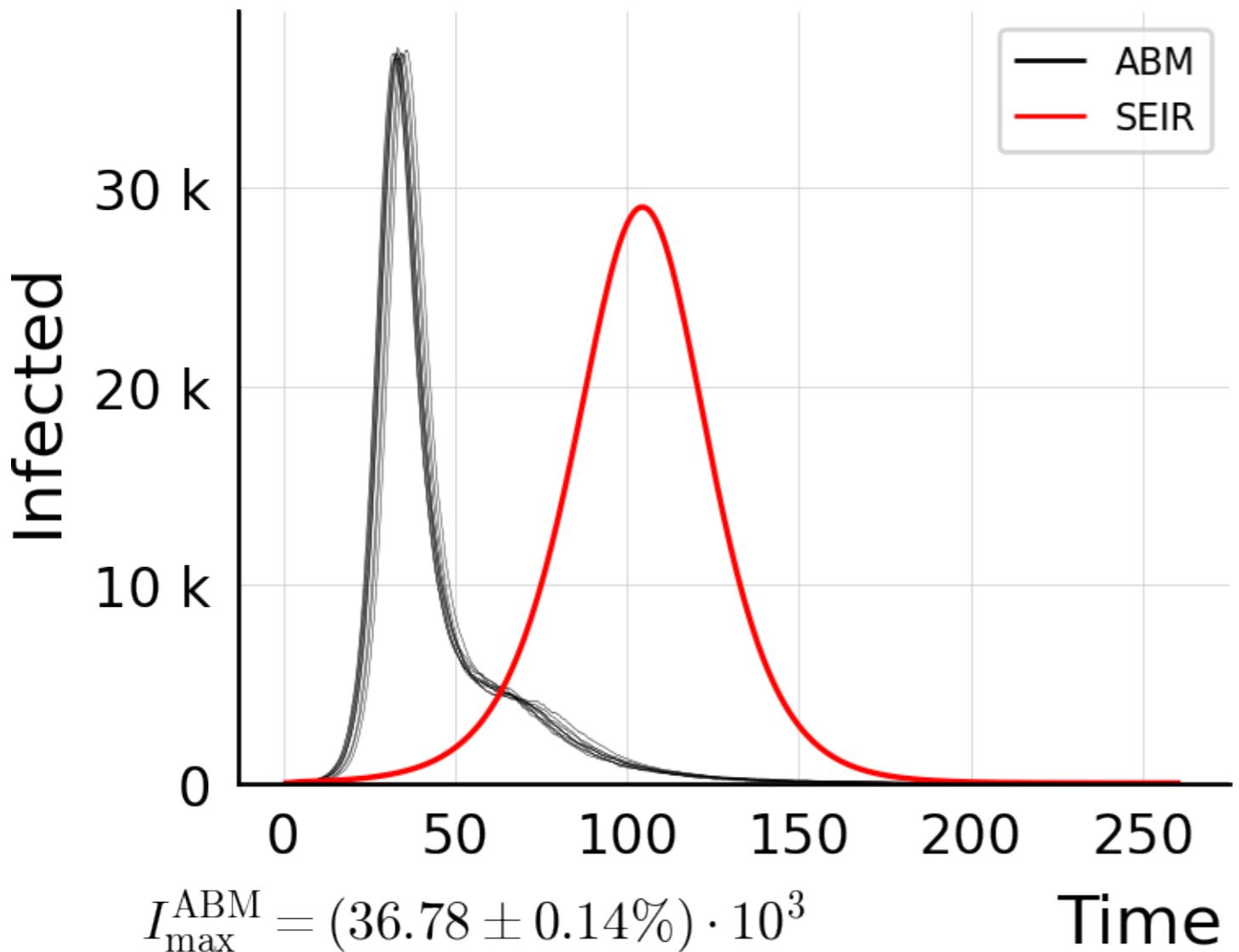
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



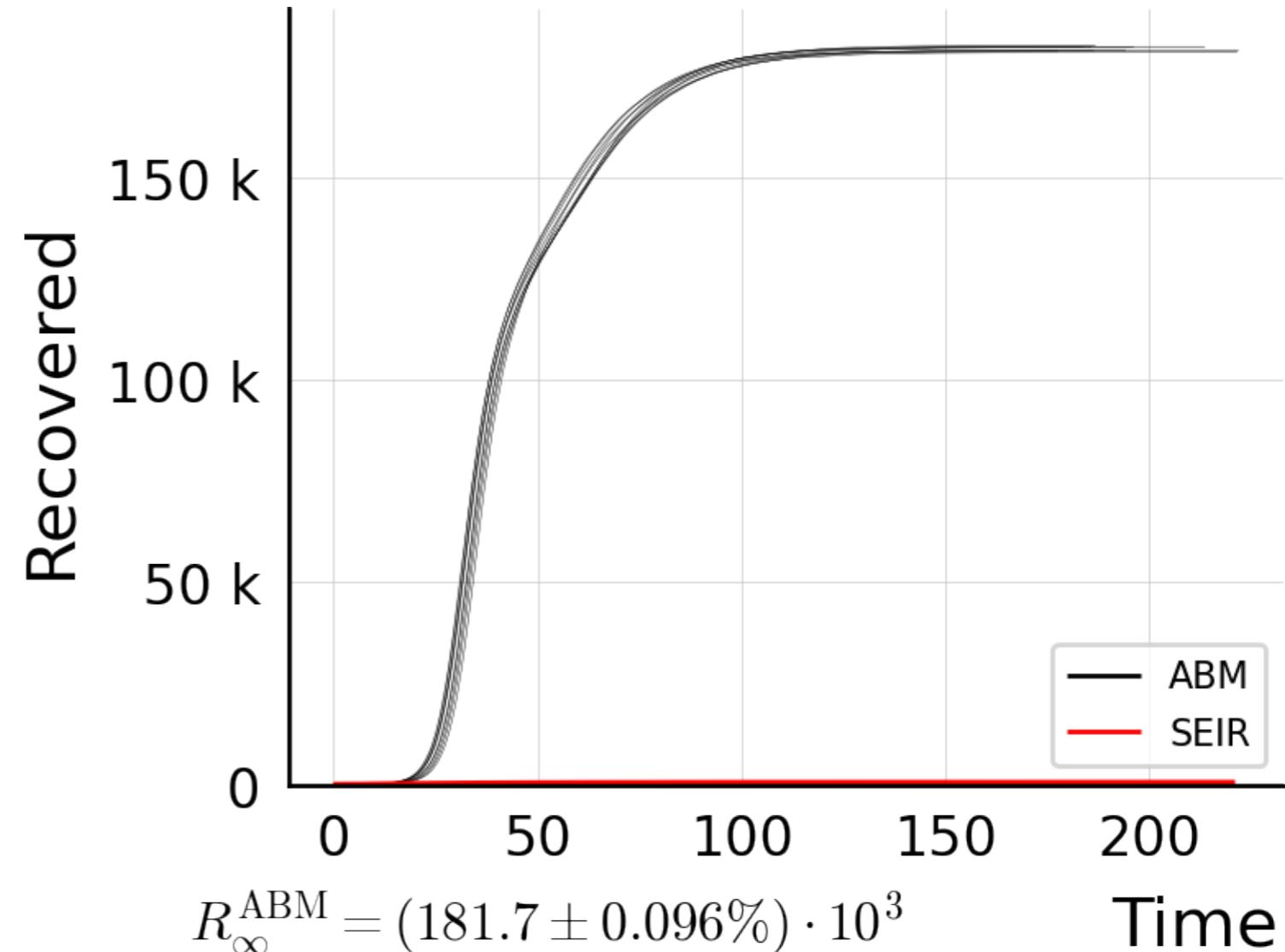
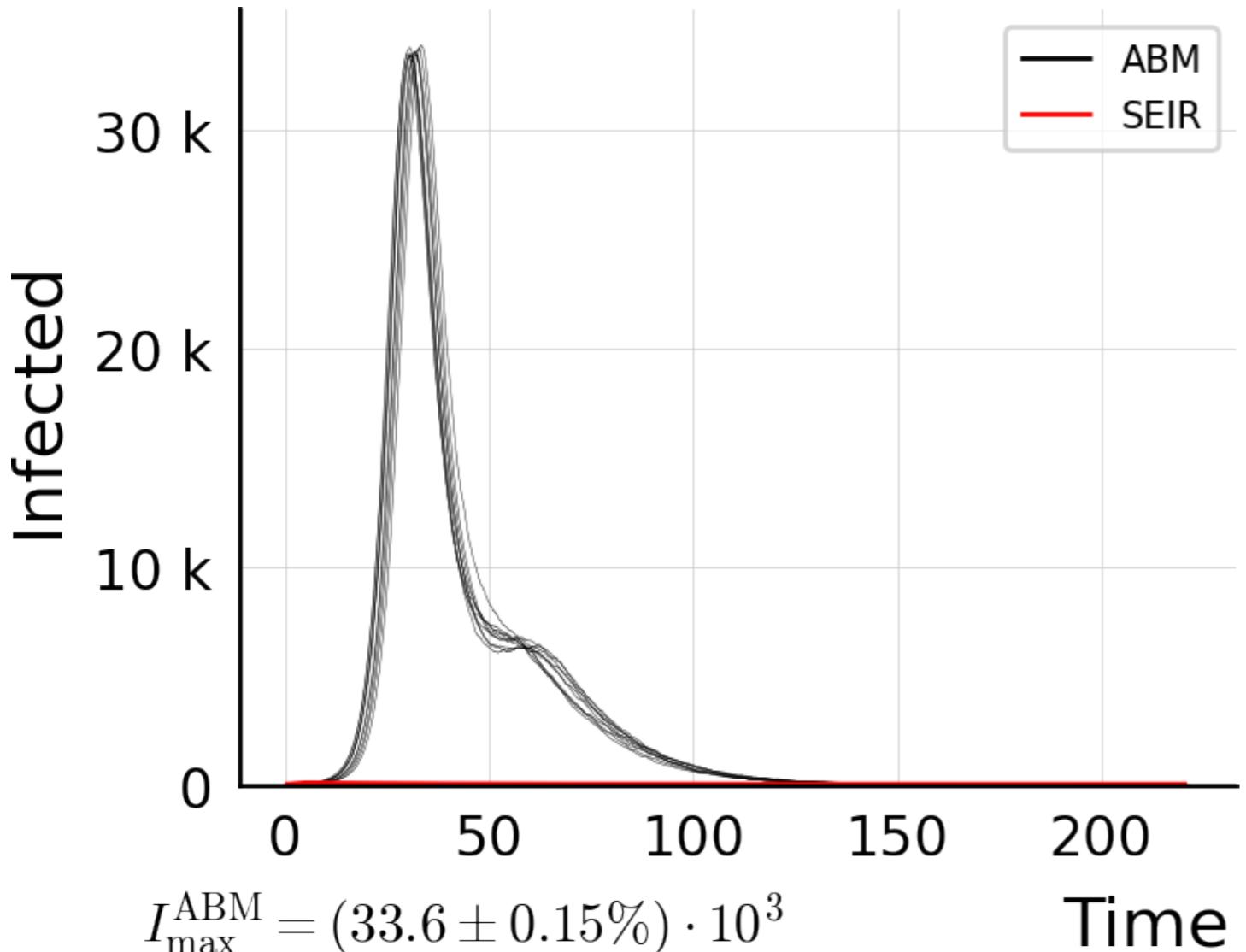
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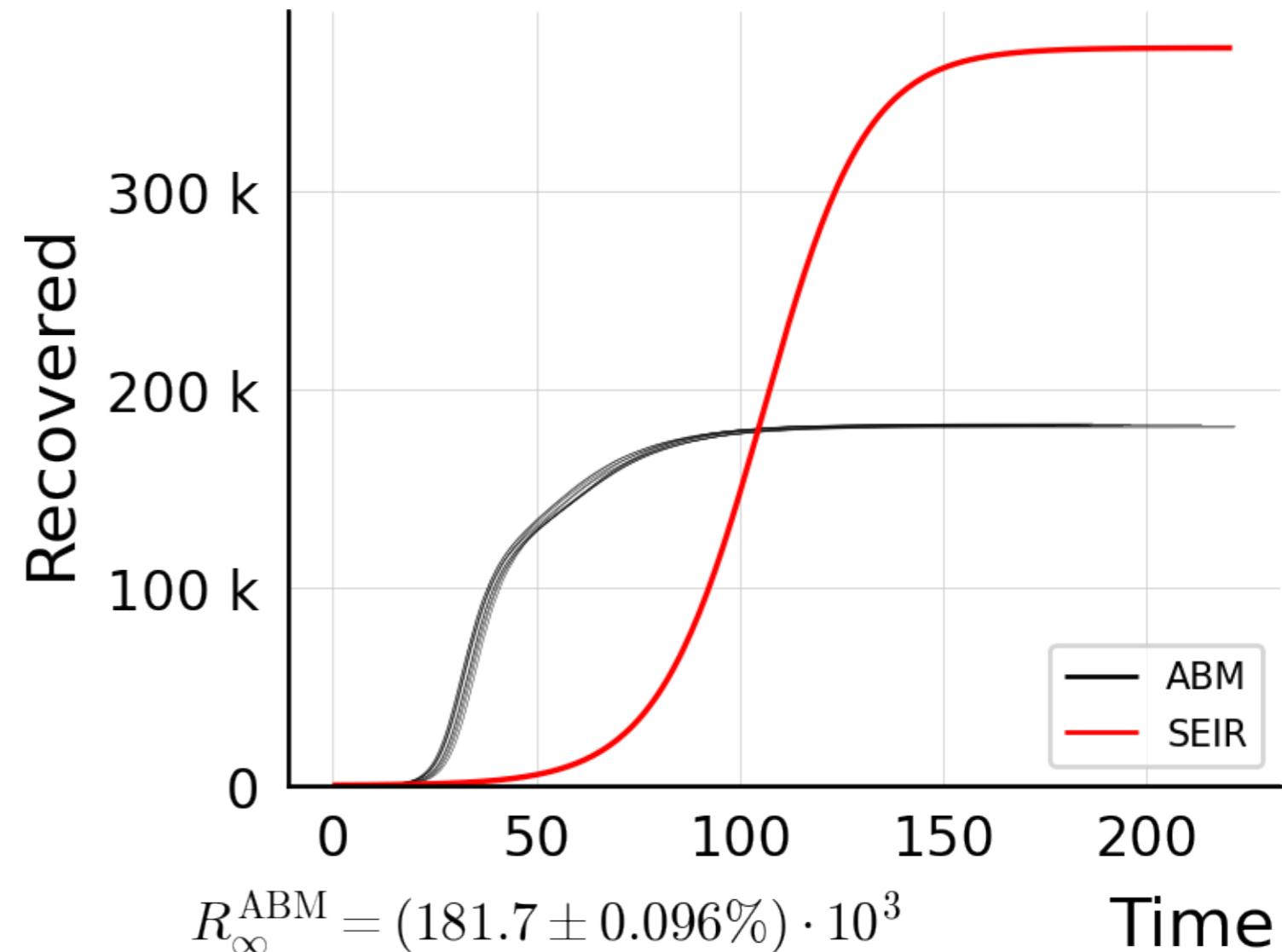
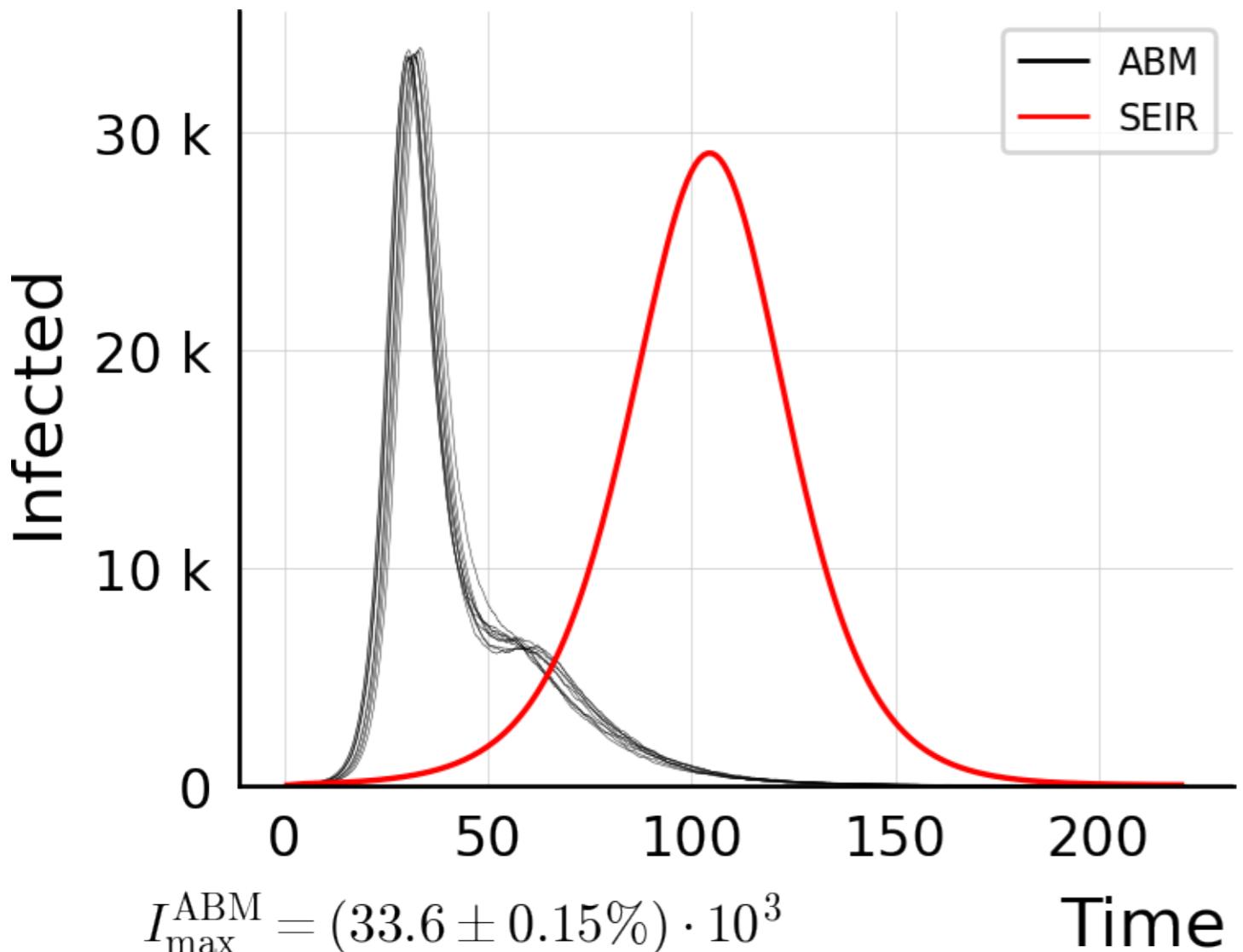
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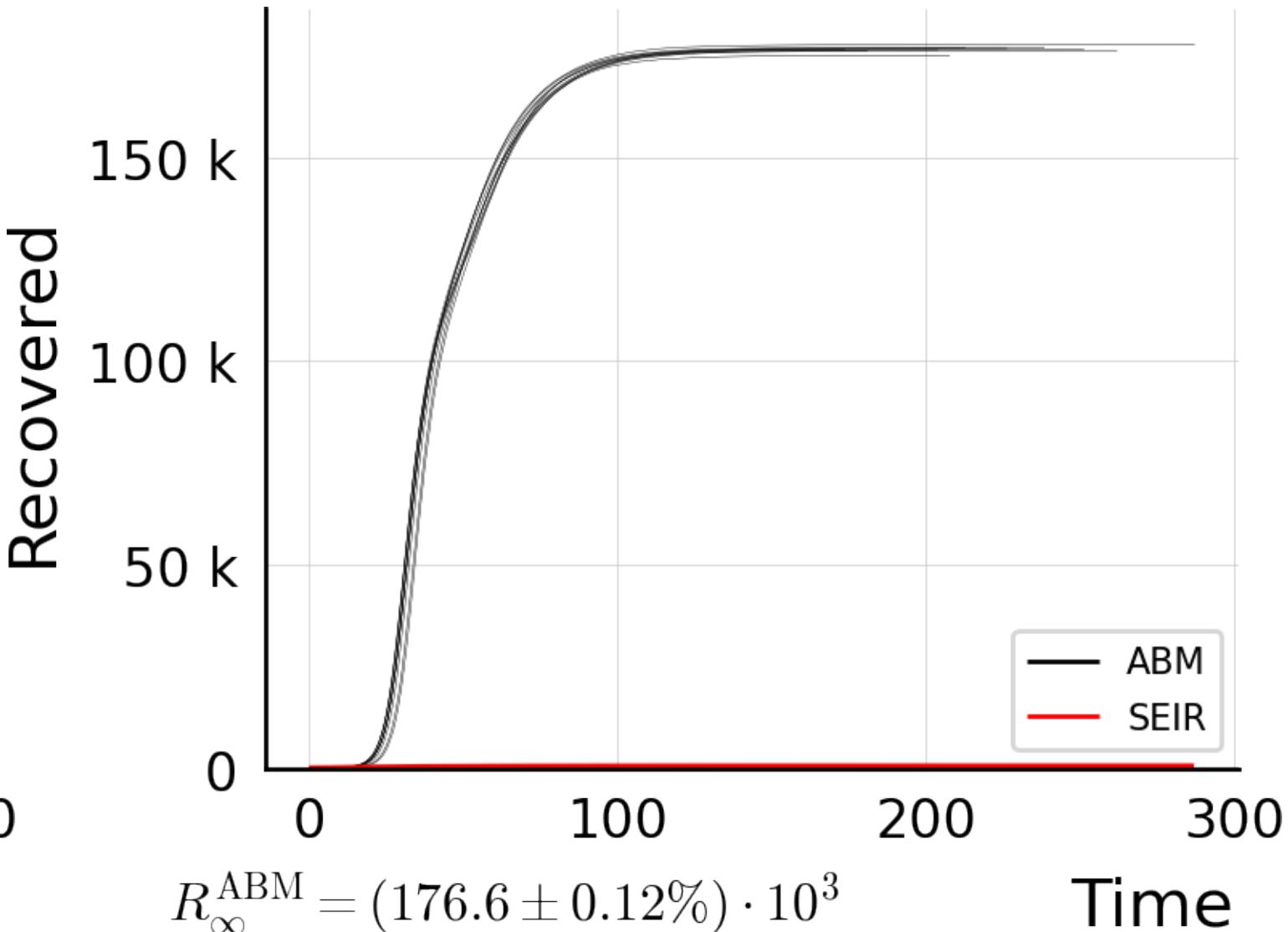
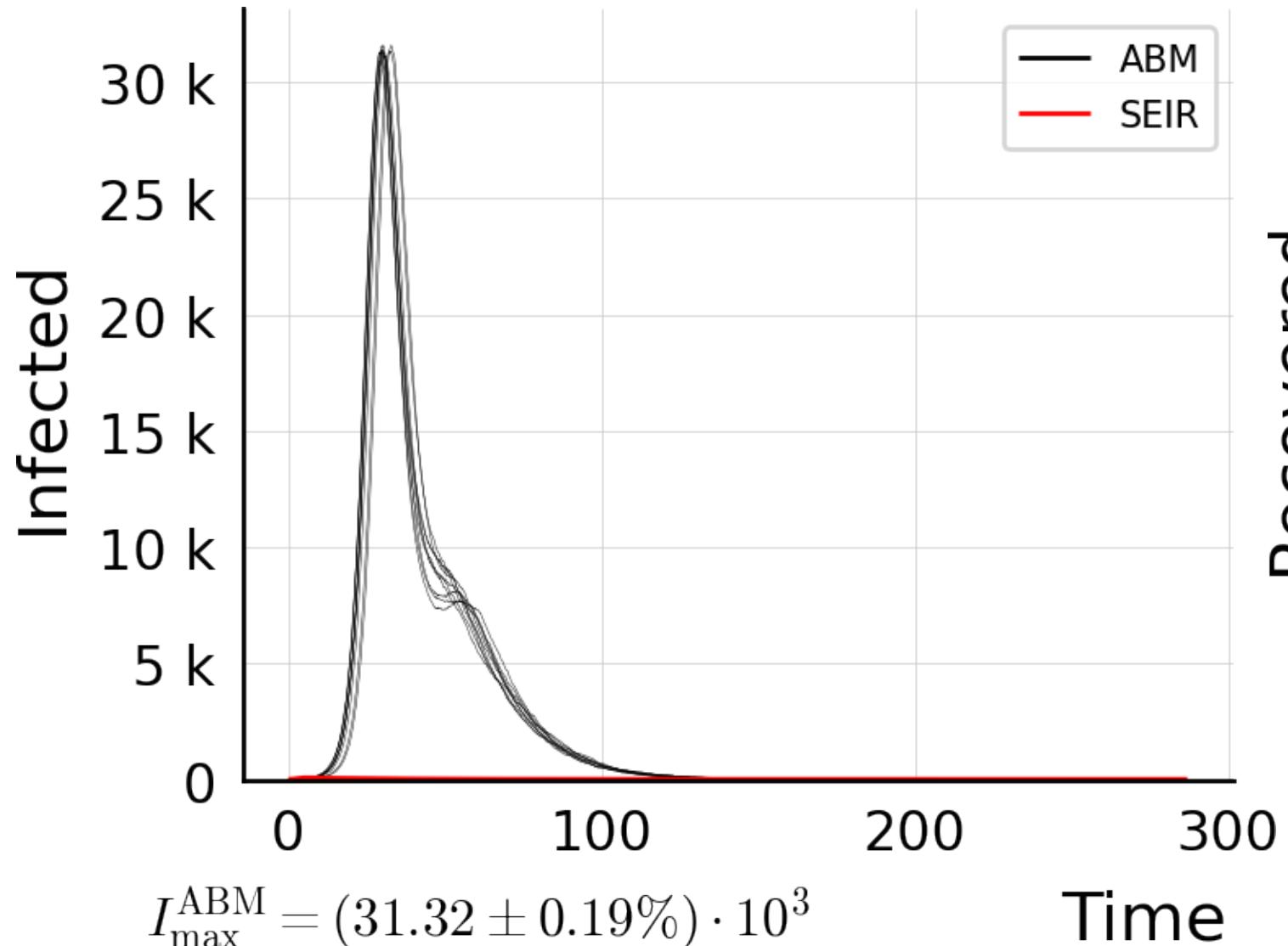
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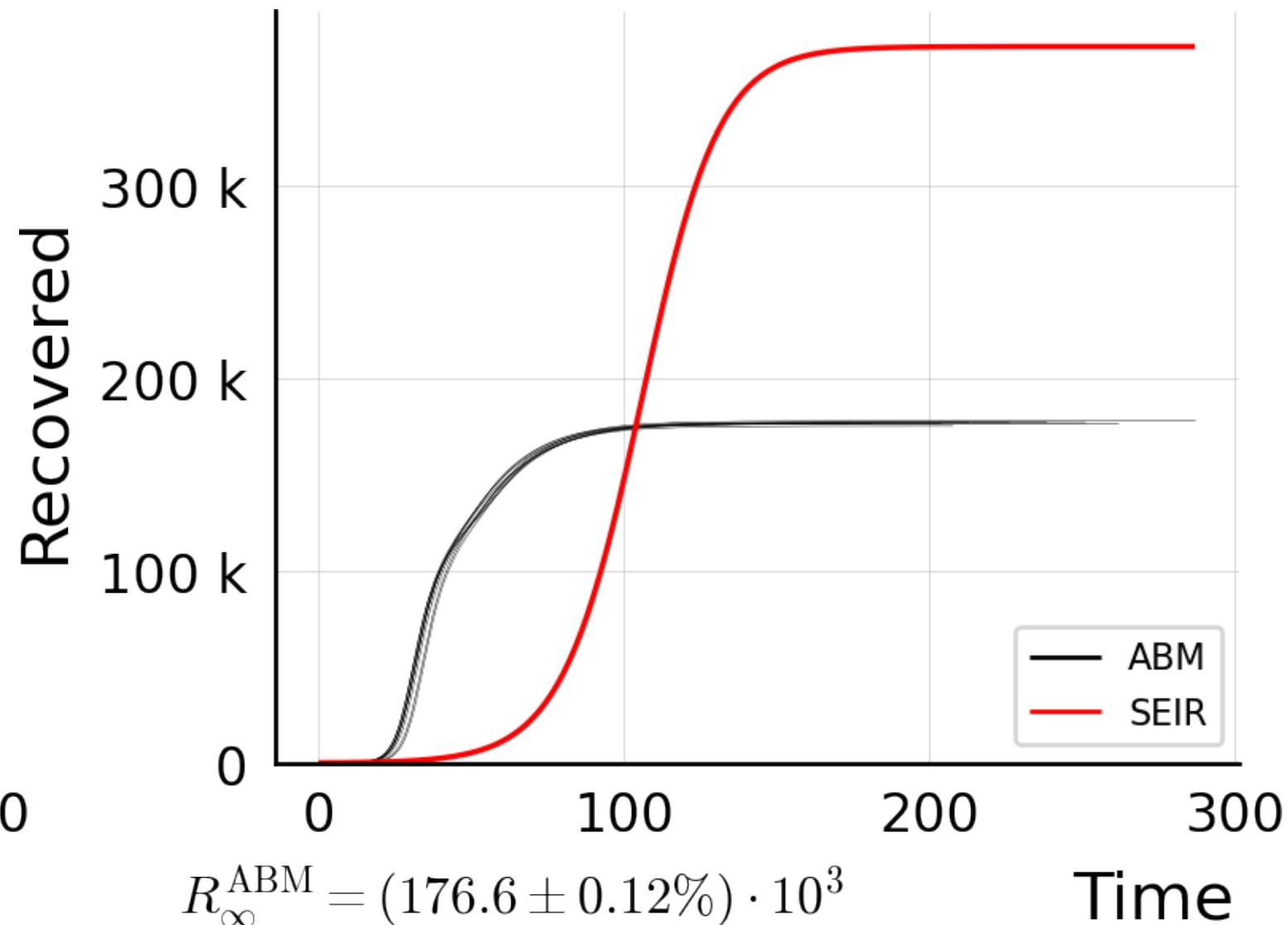
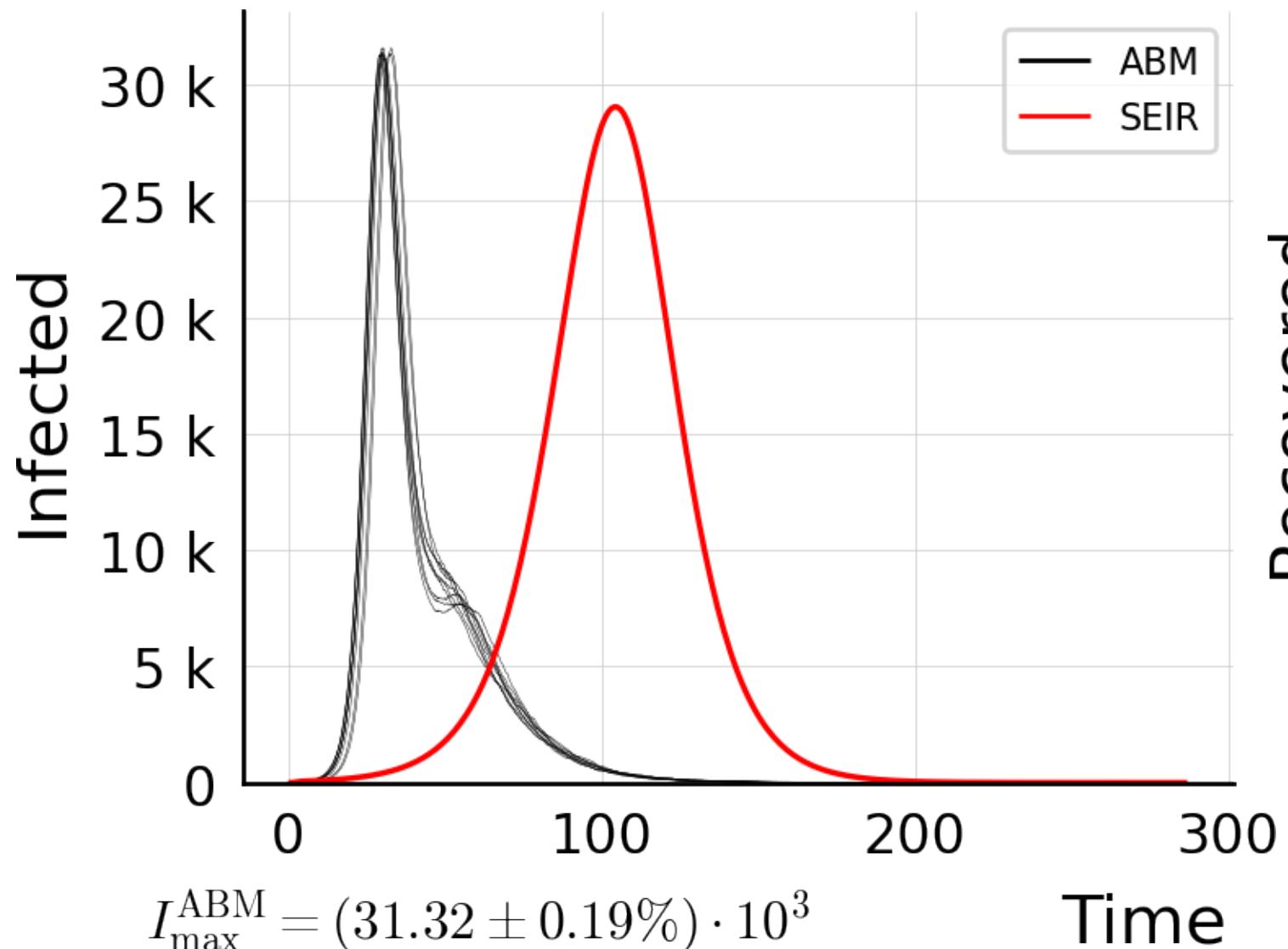
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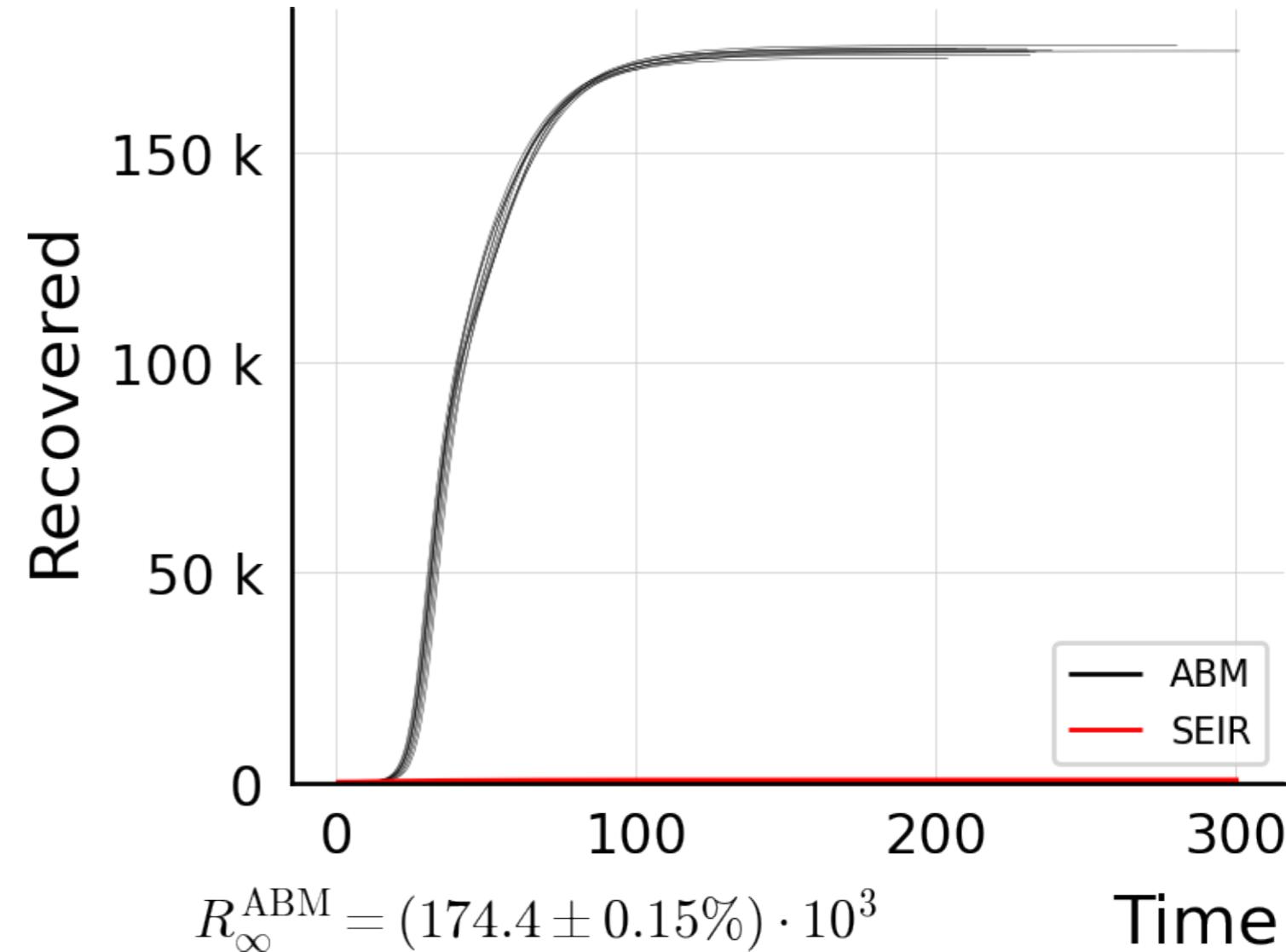
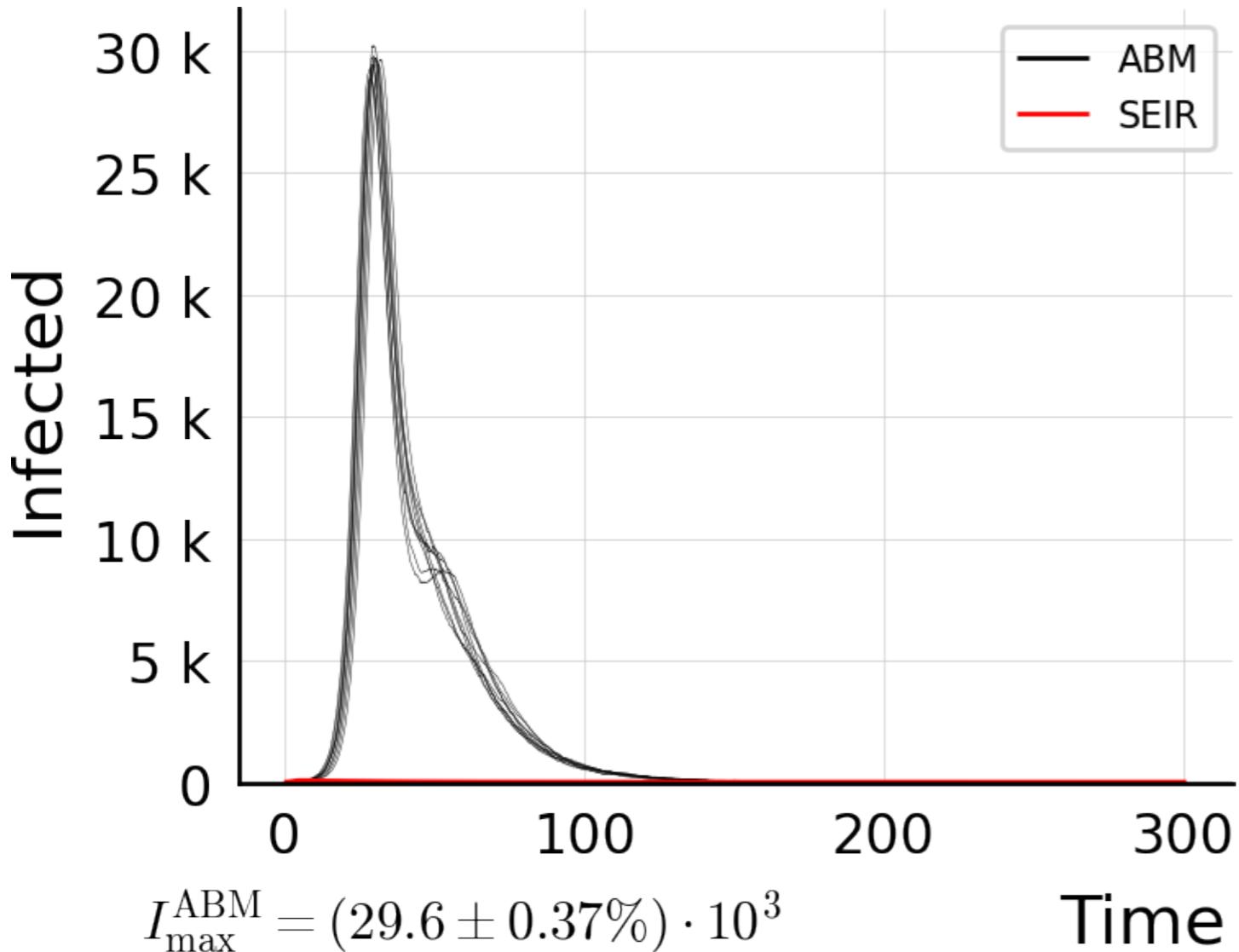
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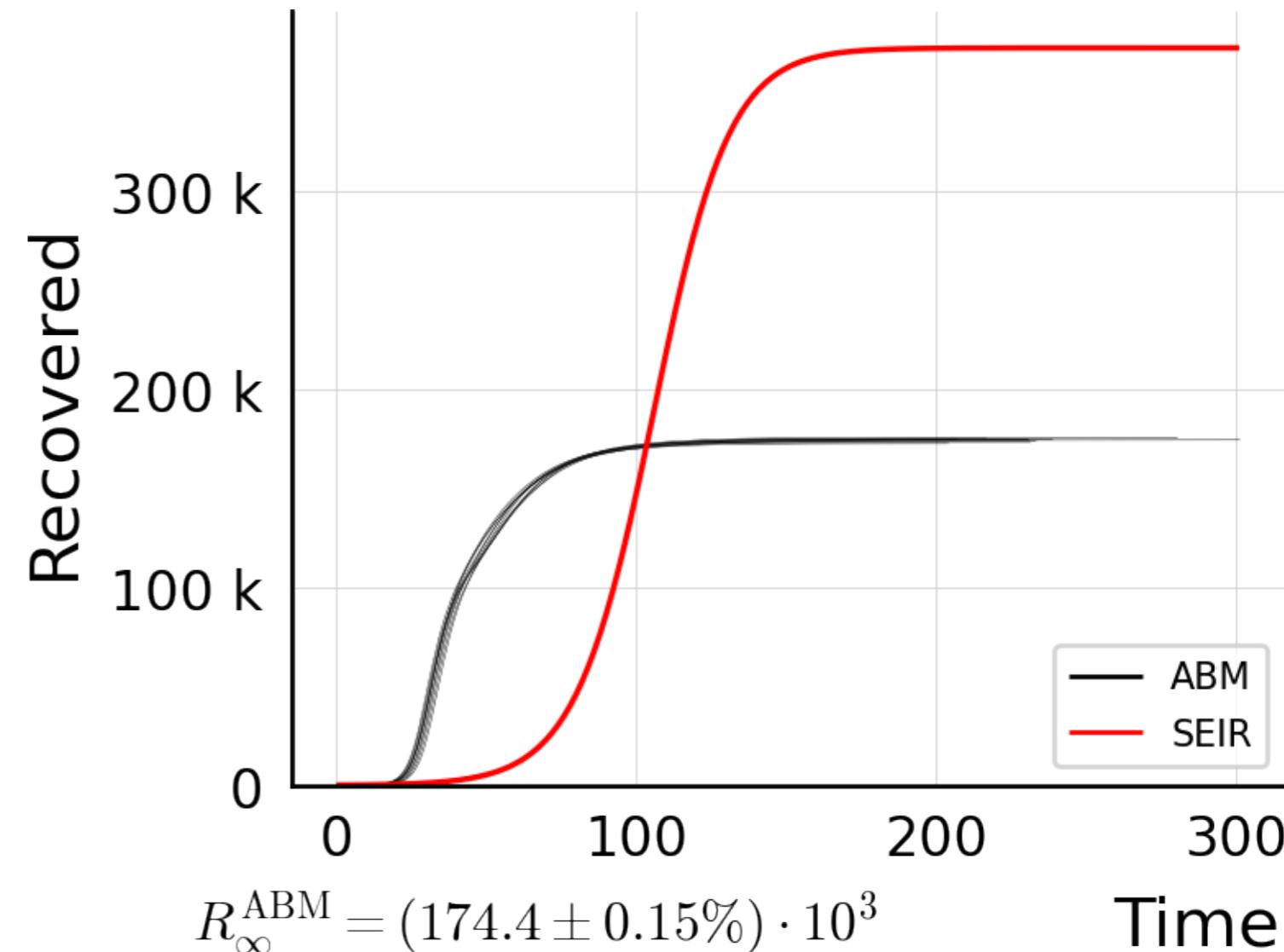
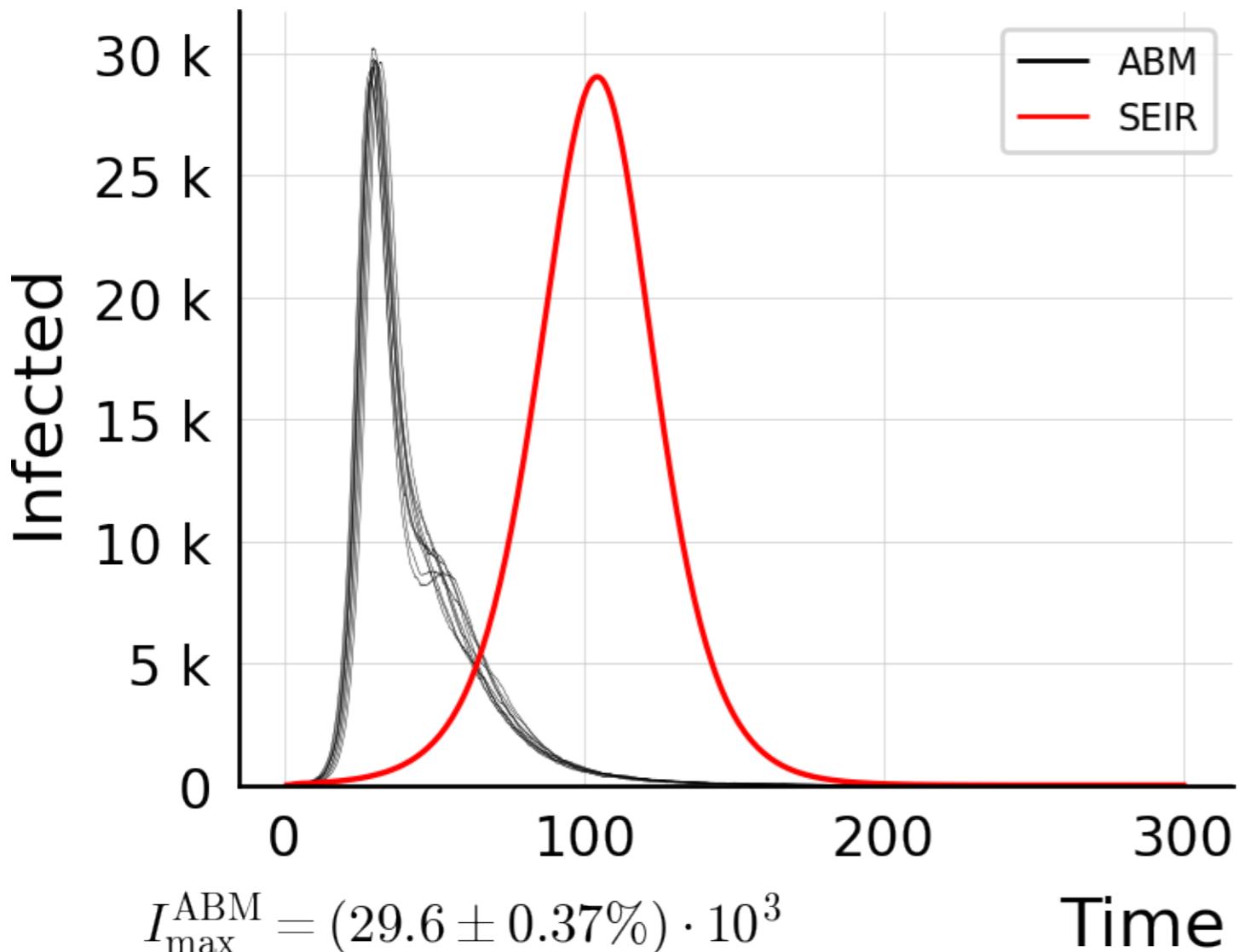
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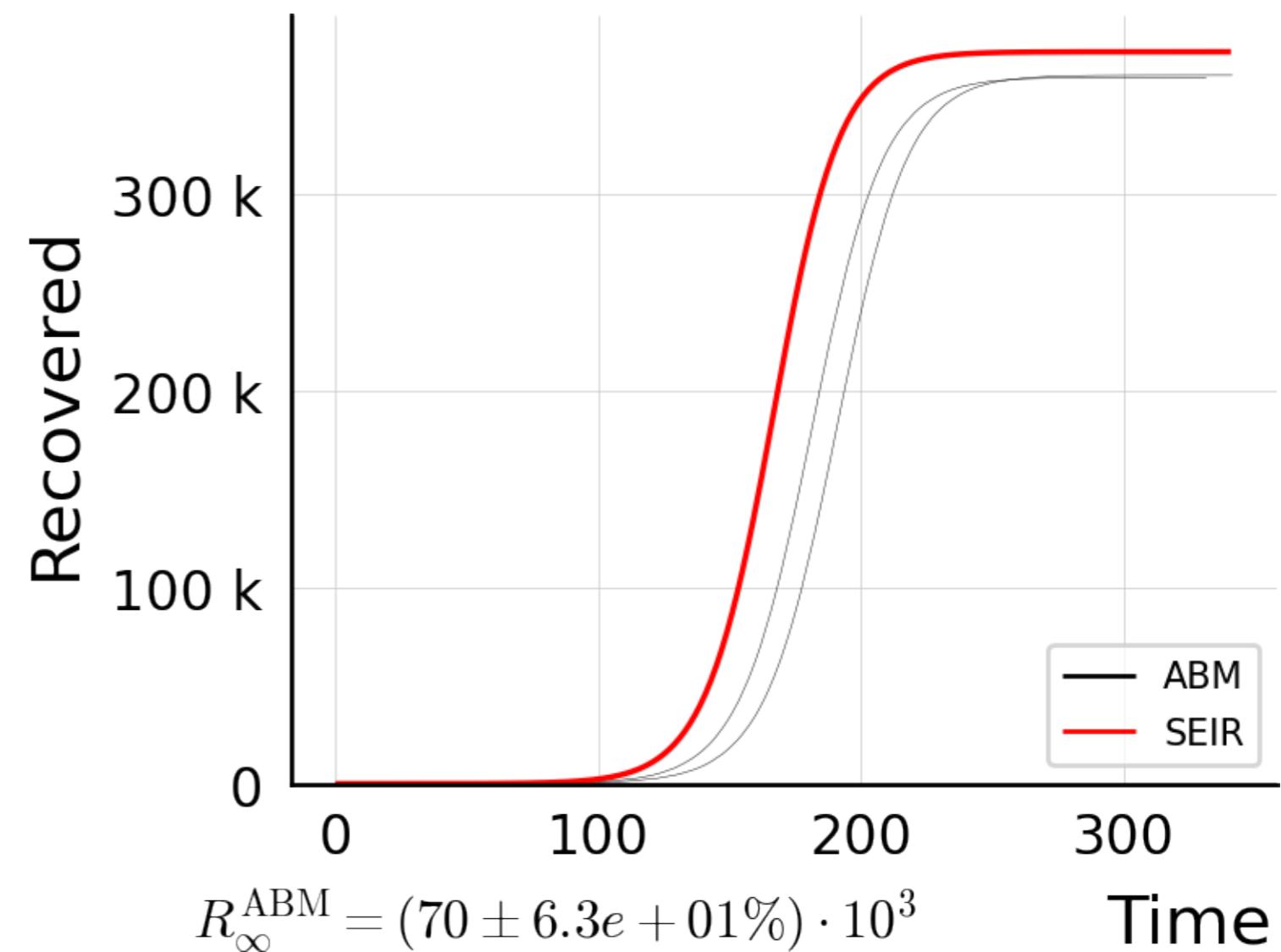
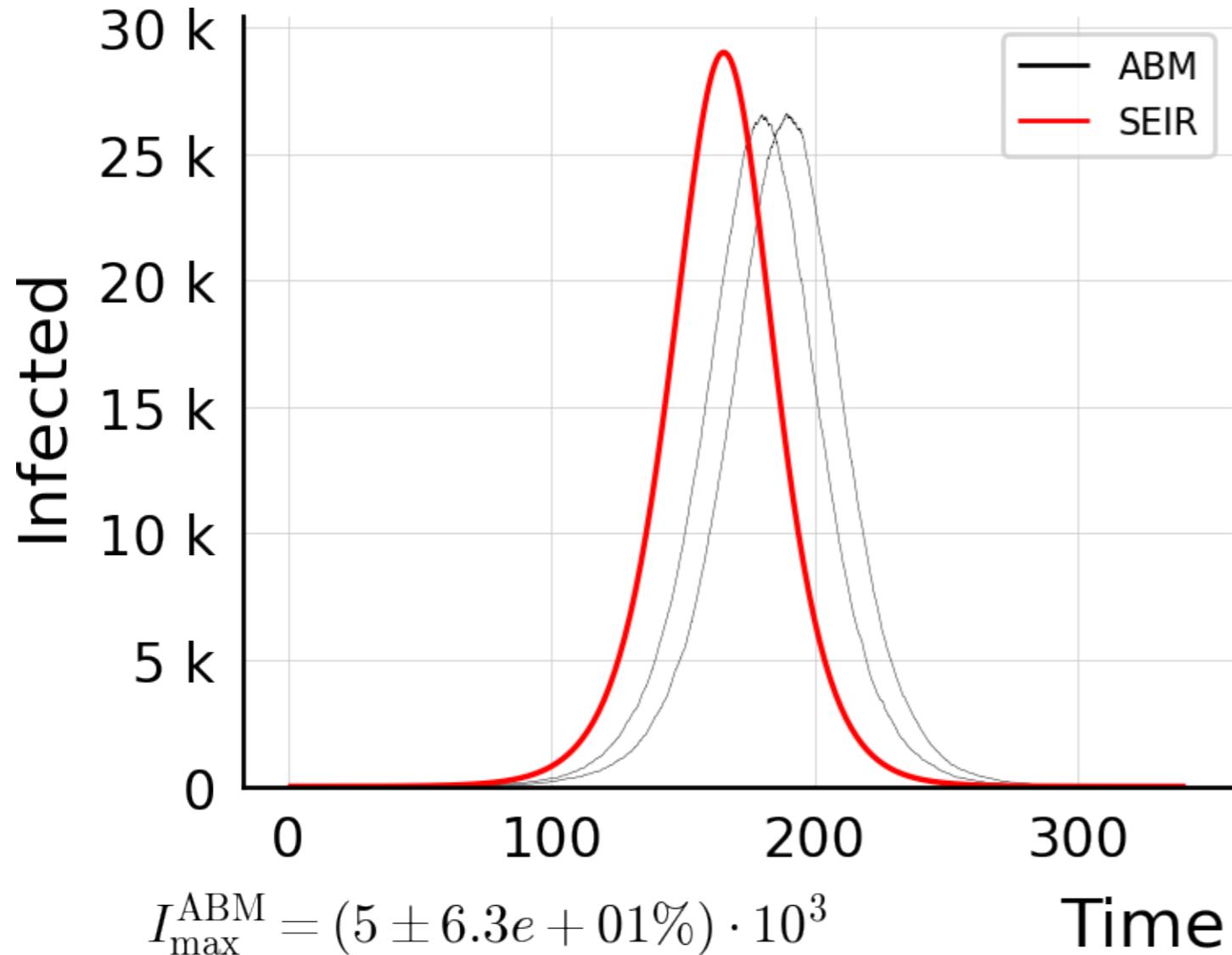
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



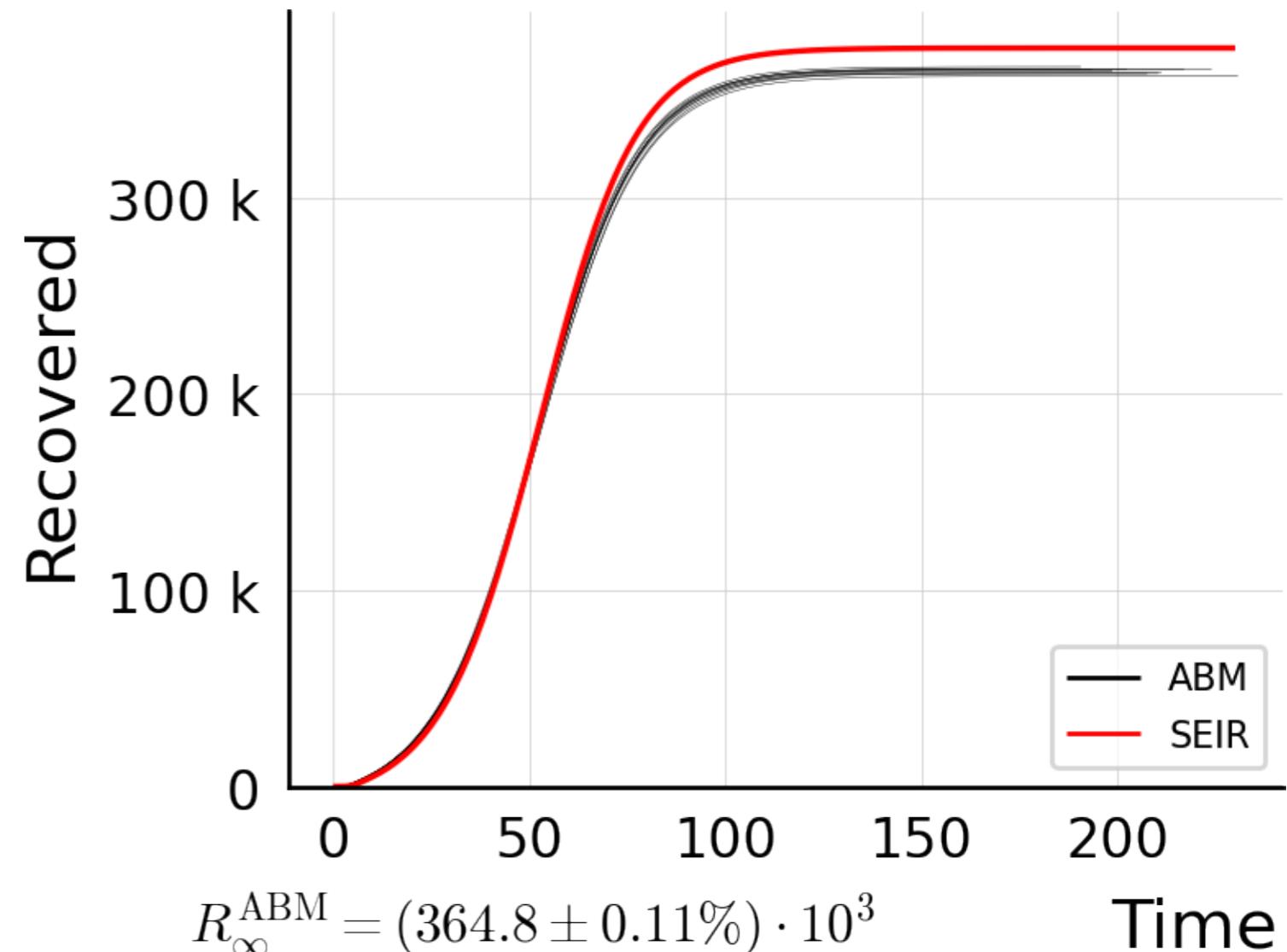
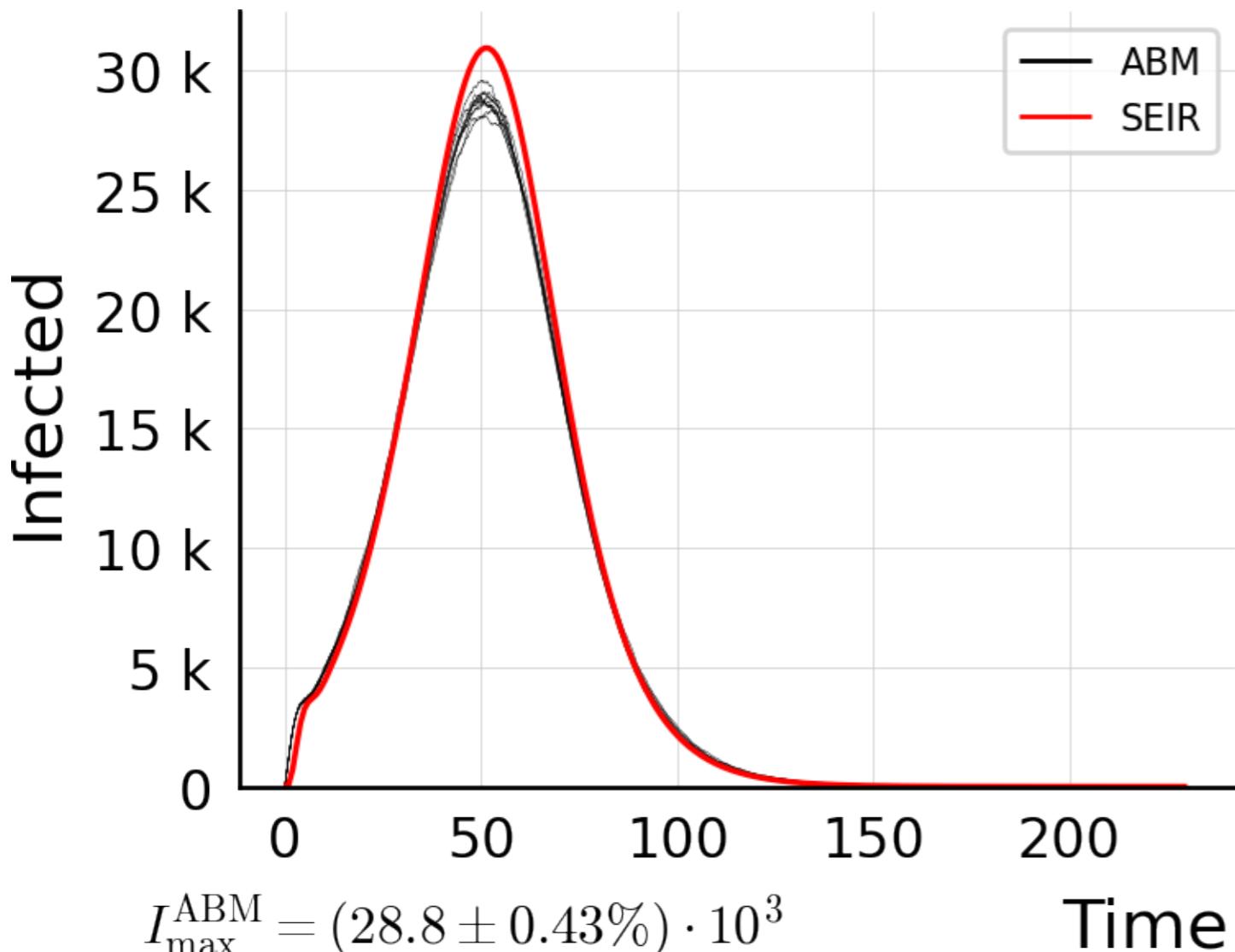
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



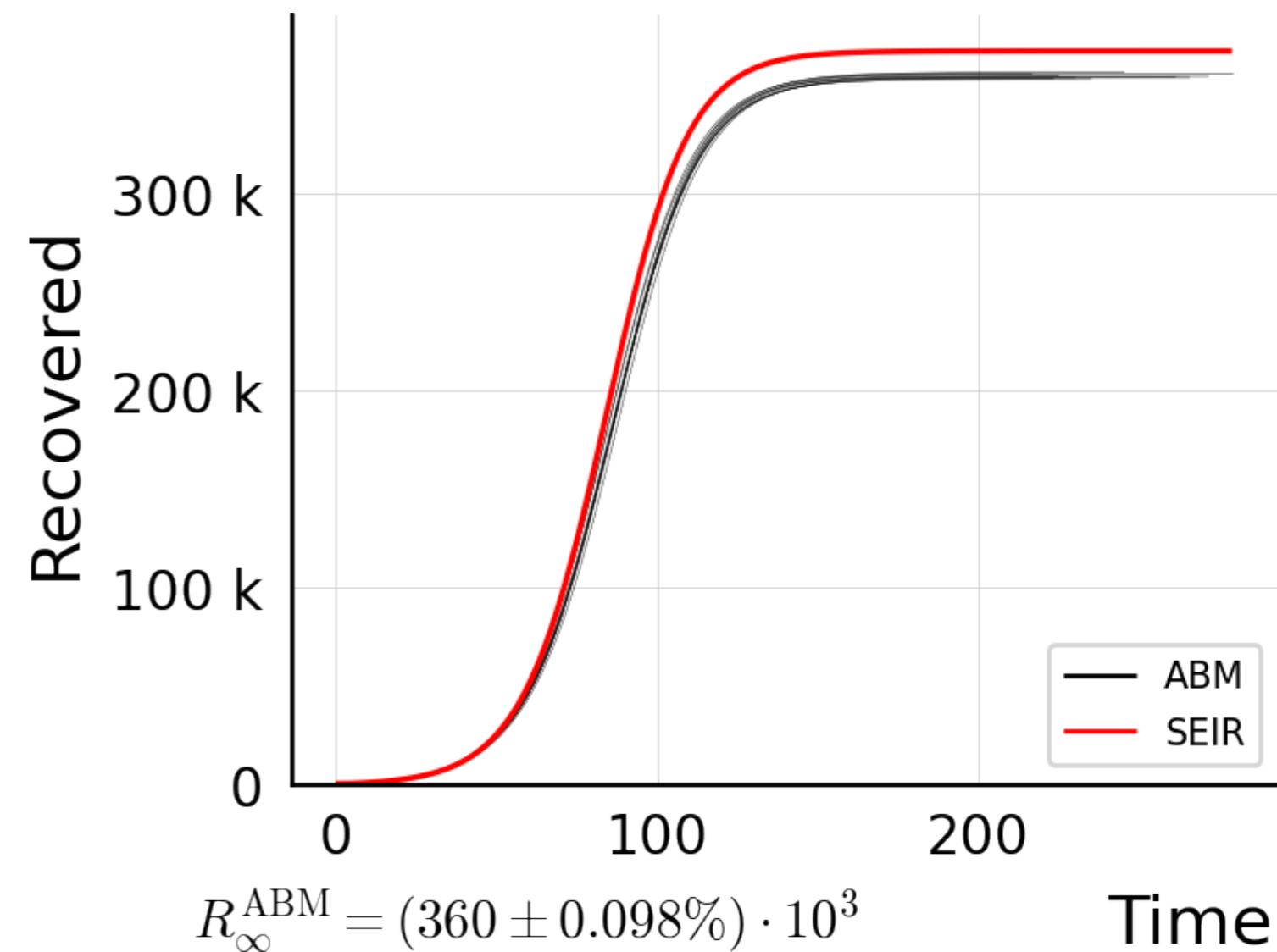
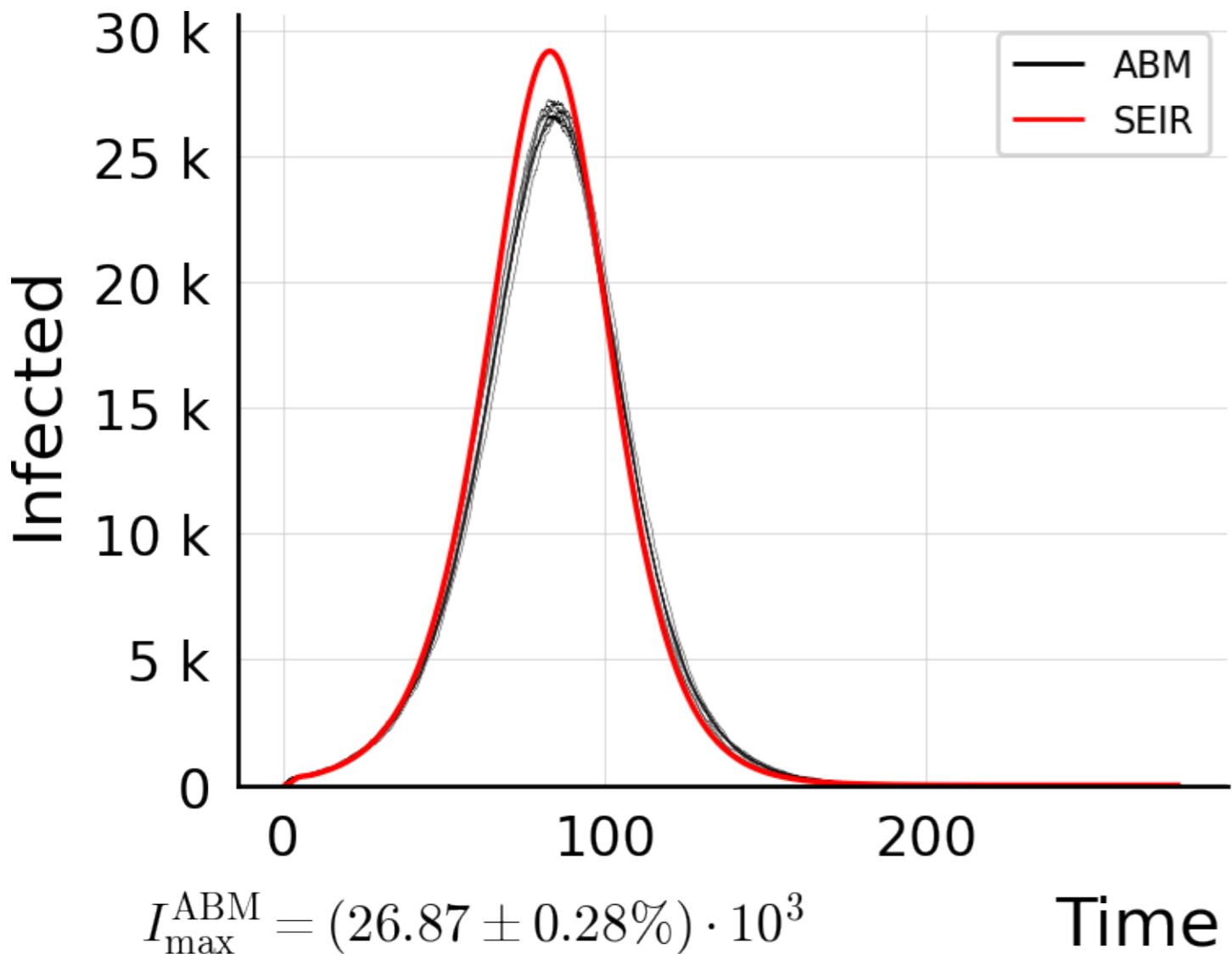
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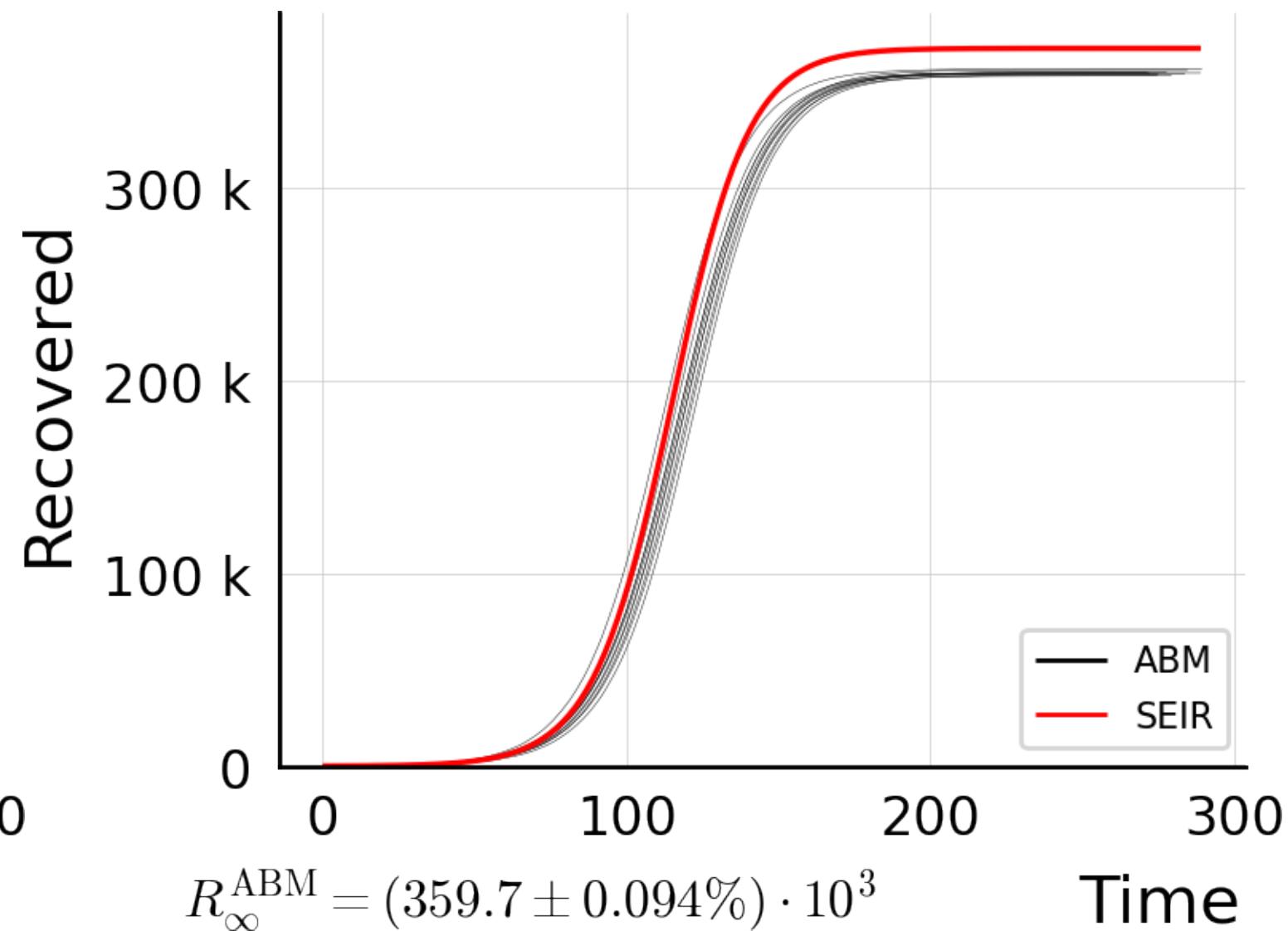
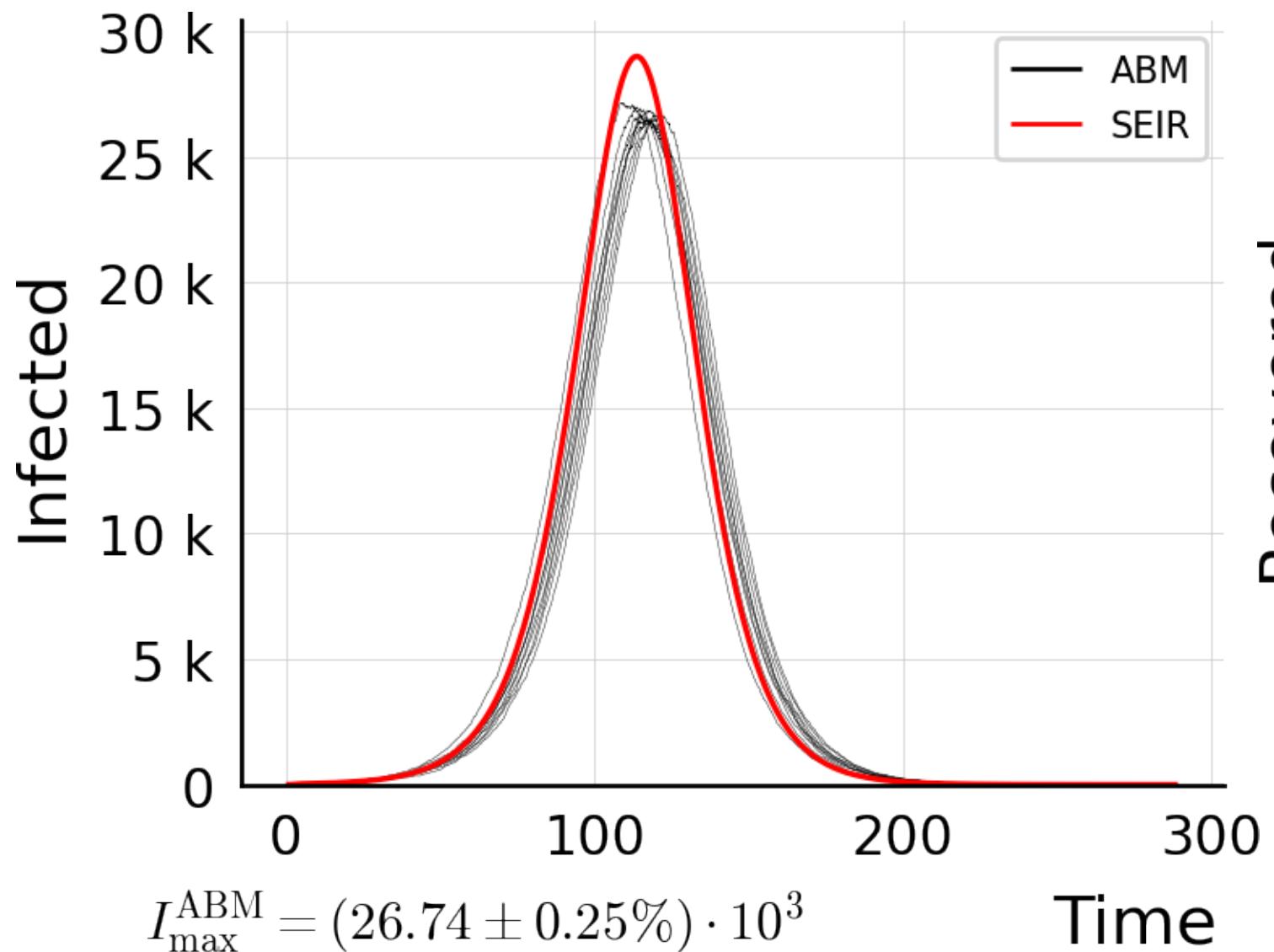
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 $\lambda_E = 1.0$, $\lambda_I = 1.0$, algo = 2, #10



$N_{\text{tot}} = 580K$, $N_{\text{init}} = 500$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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$N_{\text{tot}} = 580K$, $N_{\text{init}} = 50$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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$N_{\text{tot}} = 580K$, $N_{\text{init}} = 5$, $\rho = 0.0$, $\epsilon_\rho = 0.04$, $\mu = 40.0$, $\sigma_\mu = 0.0$, $\beta = 0.01$, $\sigma_\beta = 0.0$
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