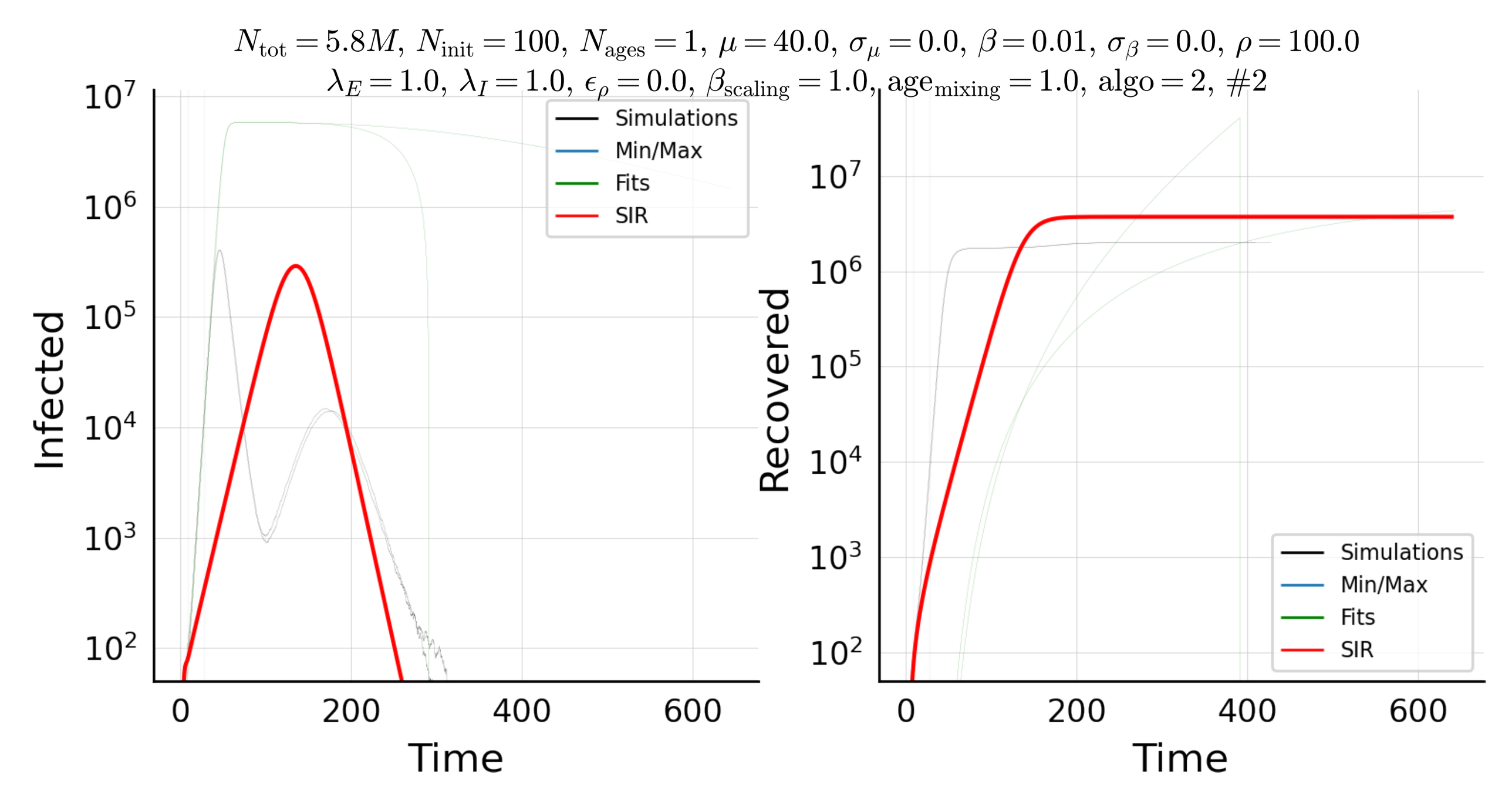
$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#2$
Infected
Recovered
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Simulations
Min/Max
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$10^2$
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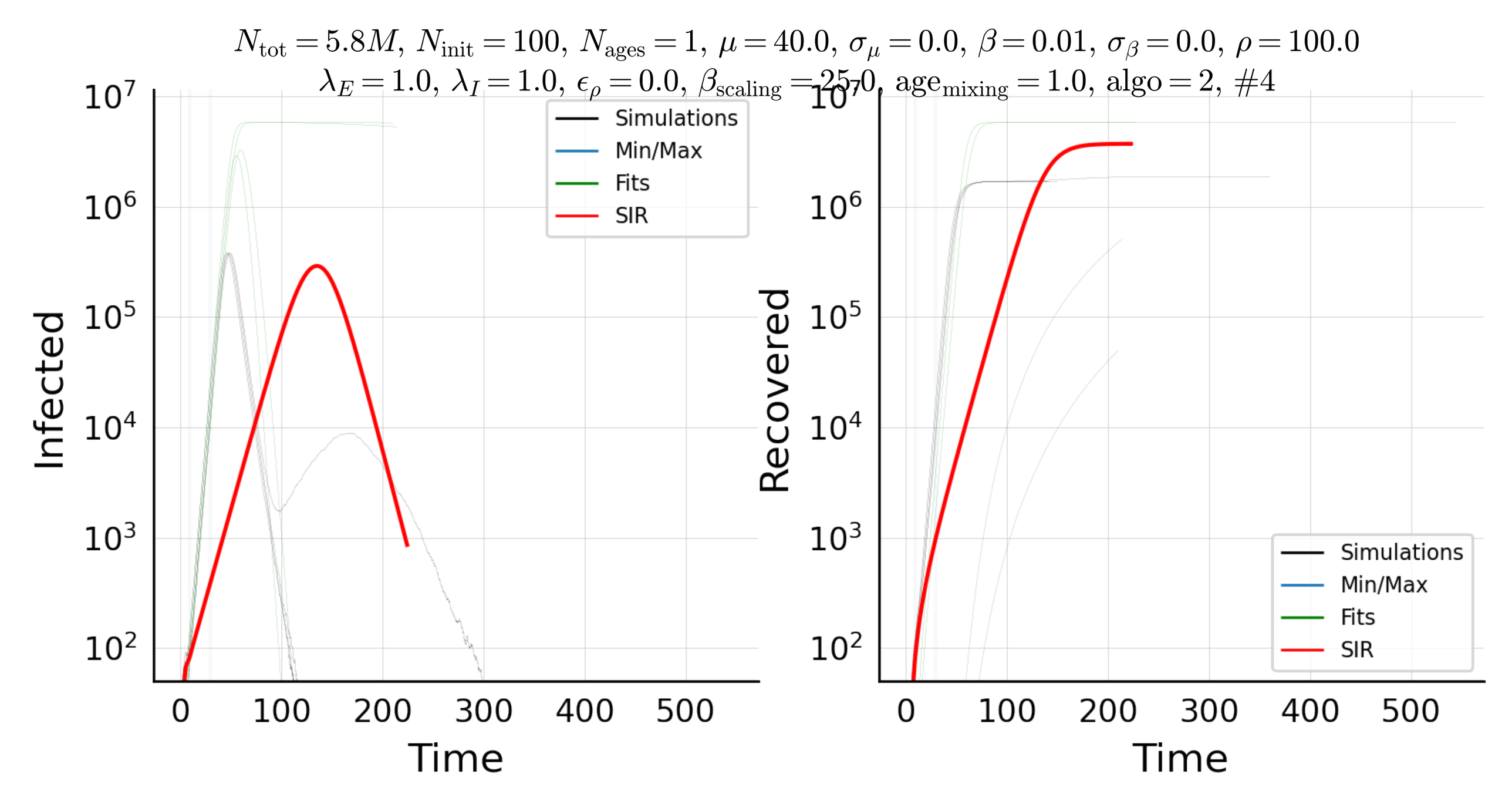
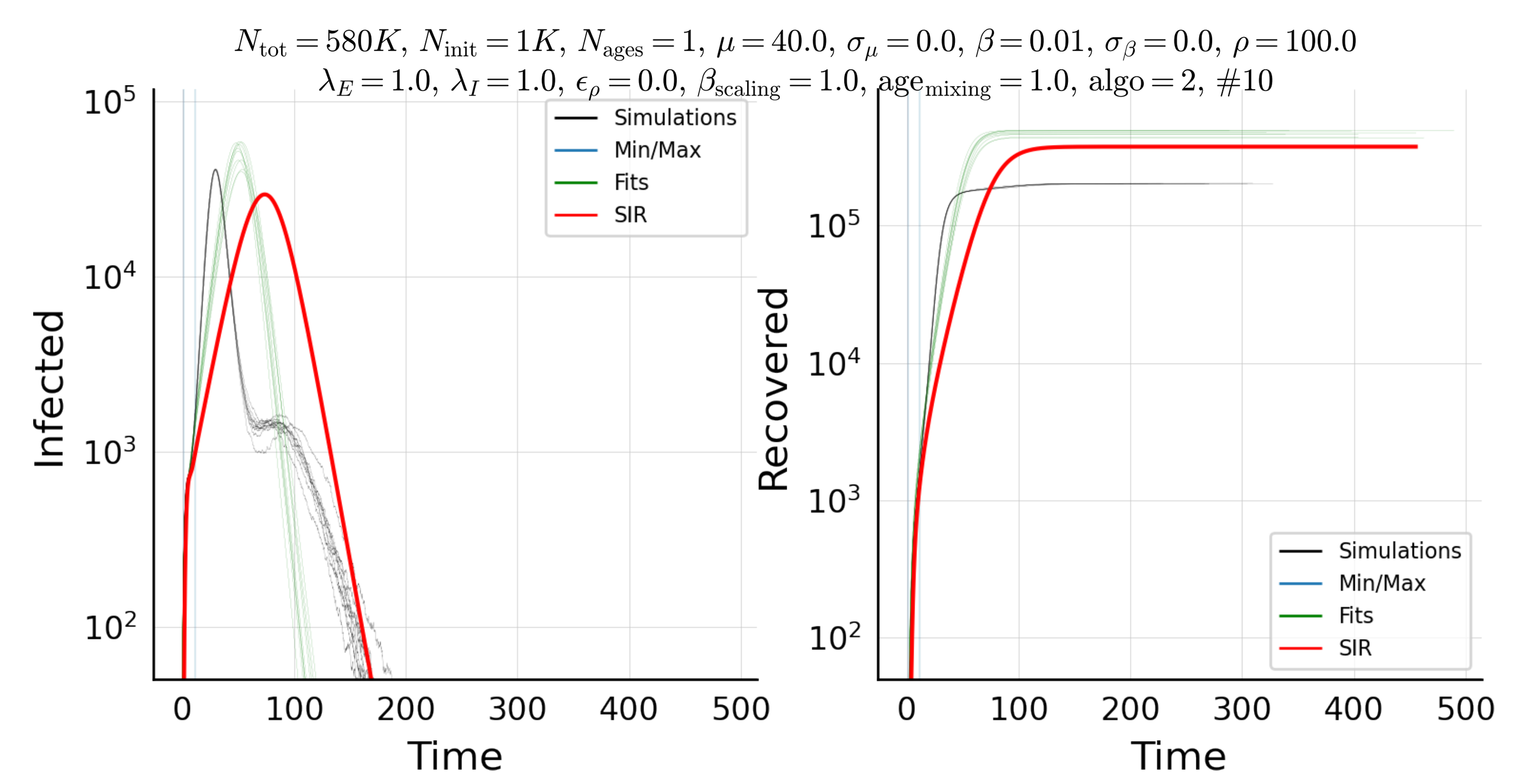

$N_{\text{tot}} = 5.8M,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 25.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#4$
Infected
Recovered
Time
Time
Simulations
Min/Max
Fits
SIR
Simulations
Min/Max
Fits
SIR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$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
Recovered
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Time
Simulations
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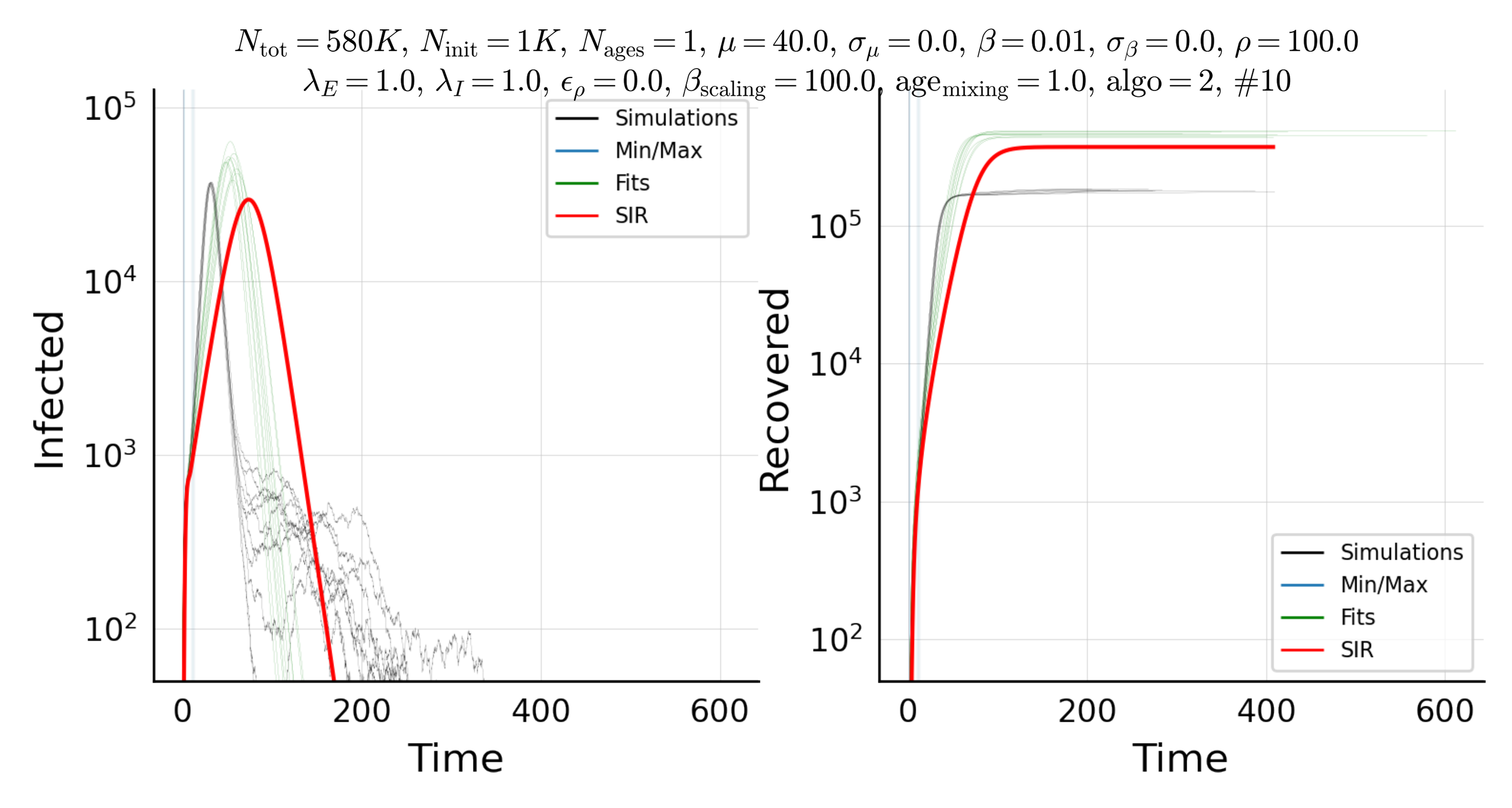
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 1K,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 100.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
Recovered
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Simulations
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SIR
$10^2$
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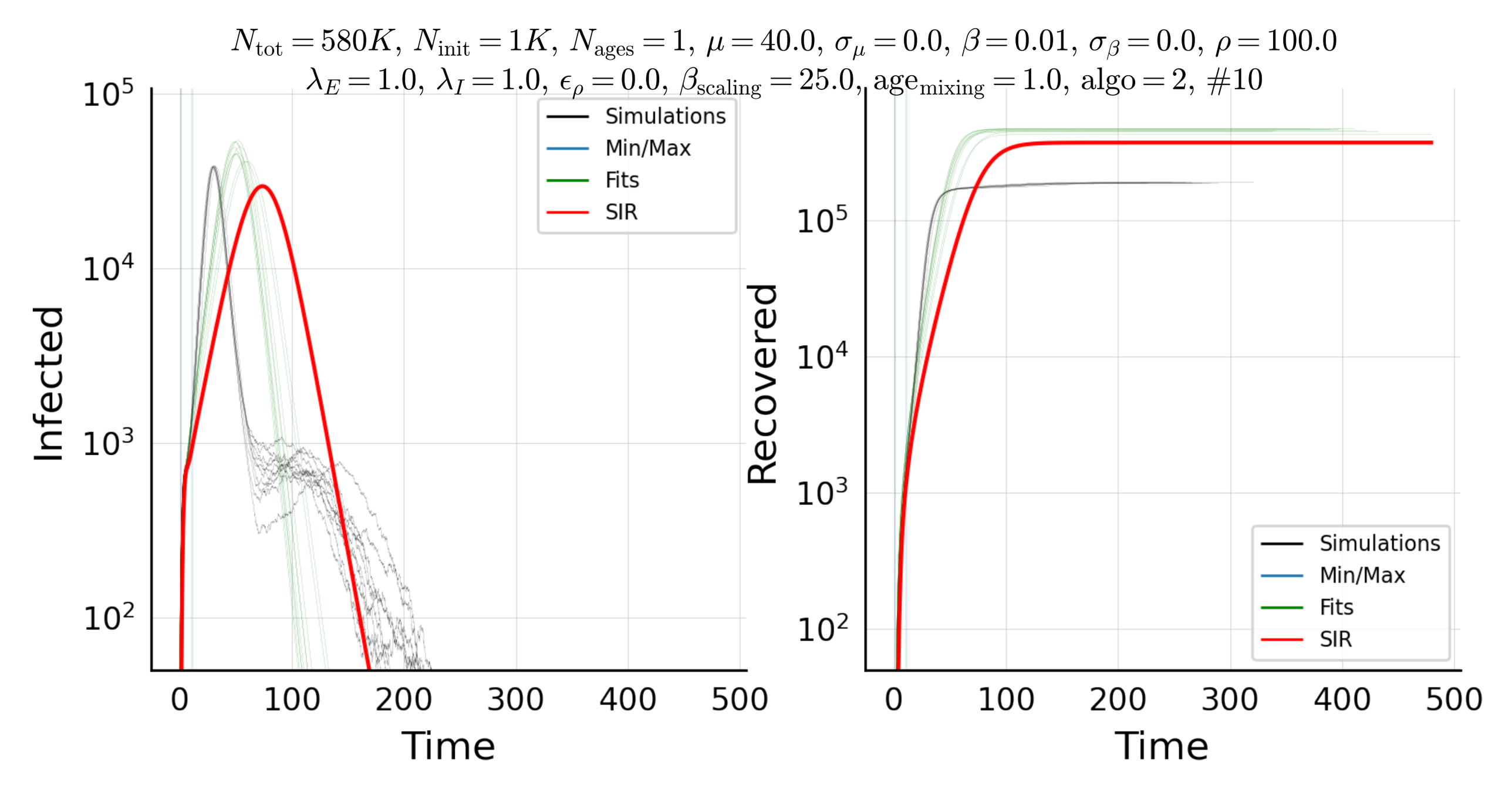
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 1K,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 25.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
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Simulations
Min/Max
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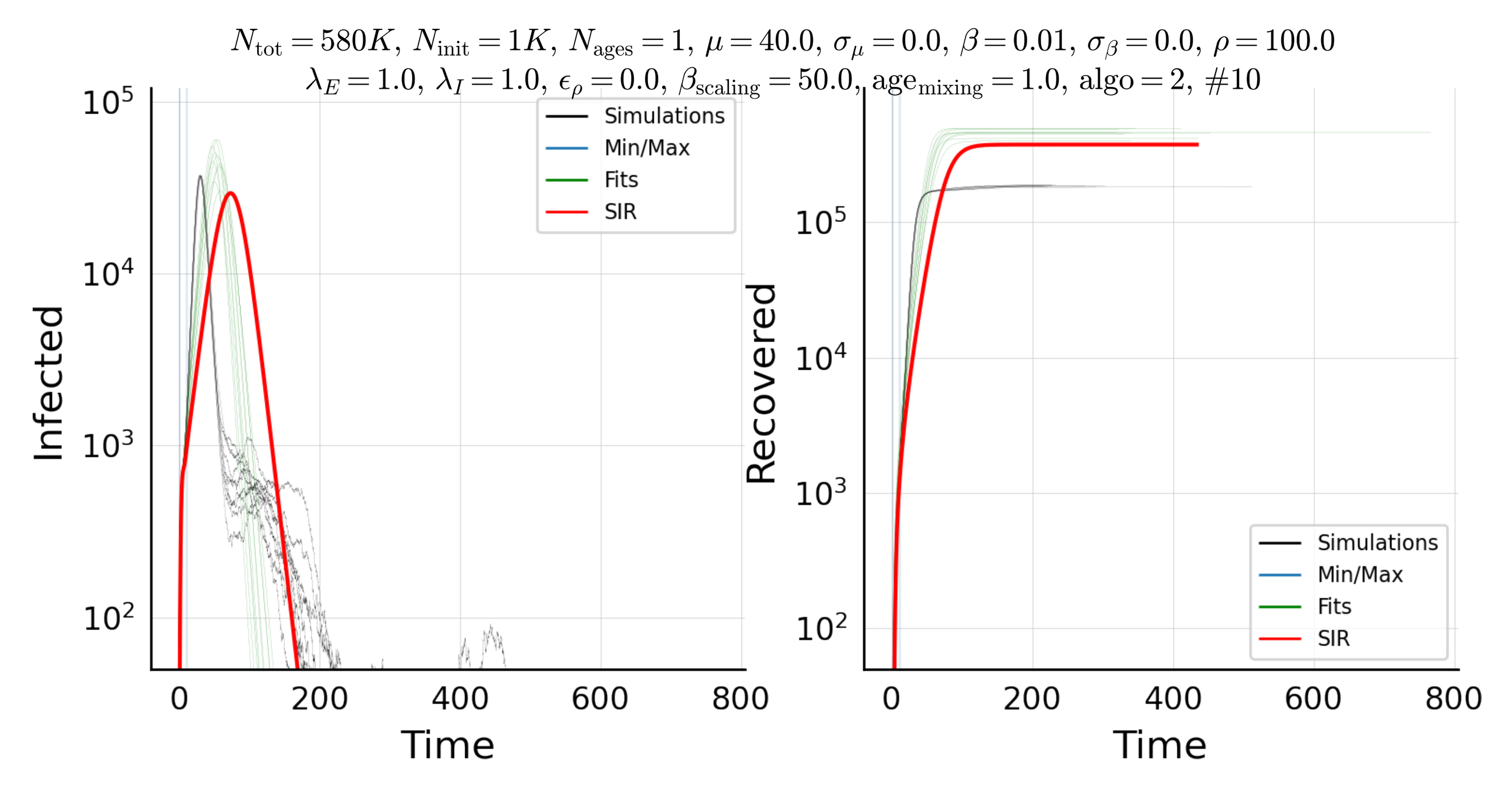
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 1K,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 50.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
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Simulations
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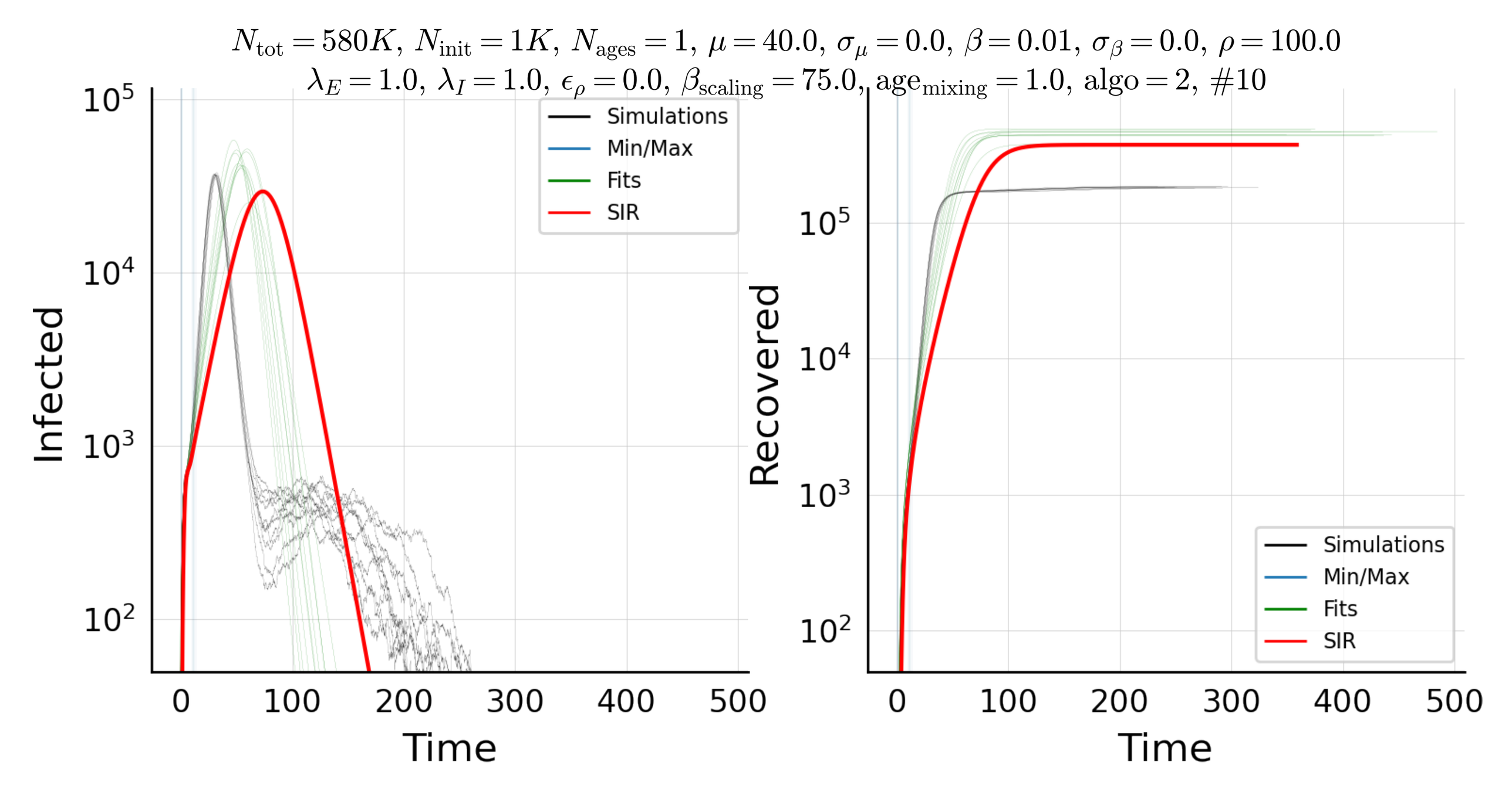
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 1K,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 75.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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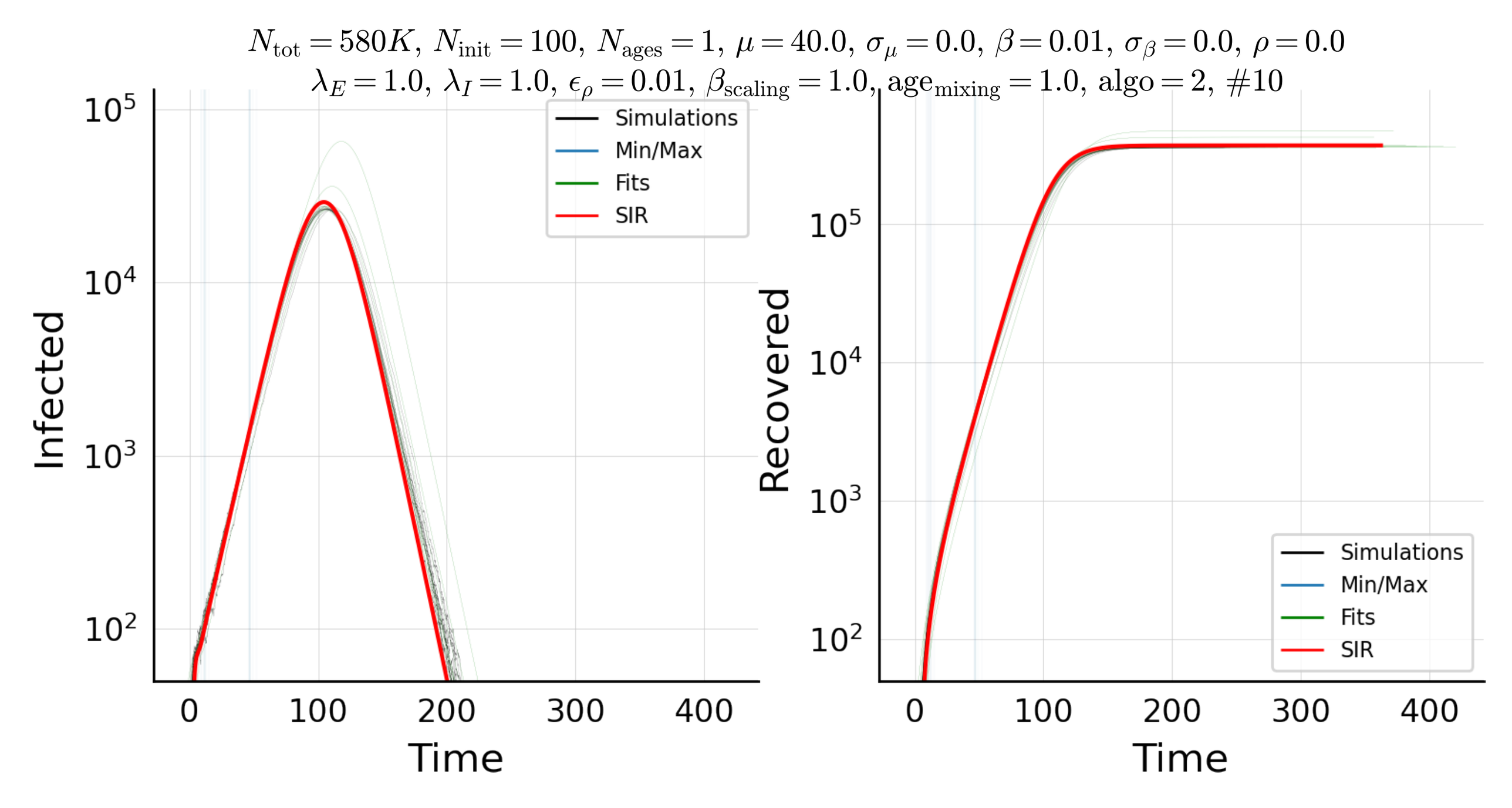
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$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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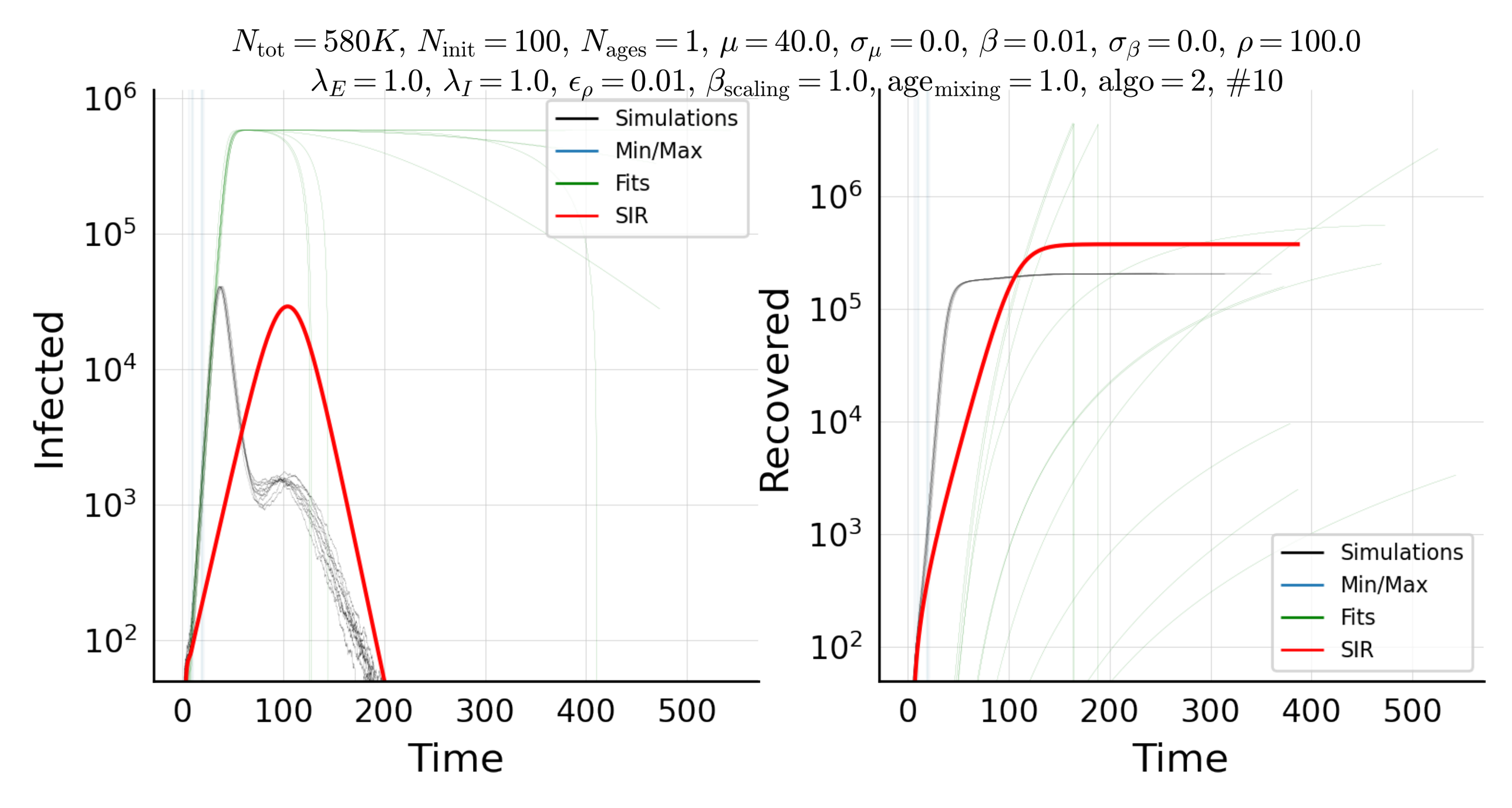
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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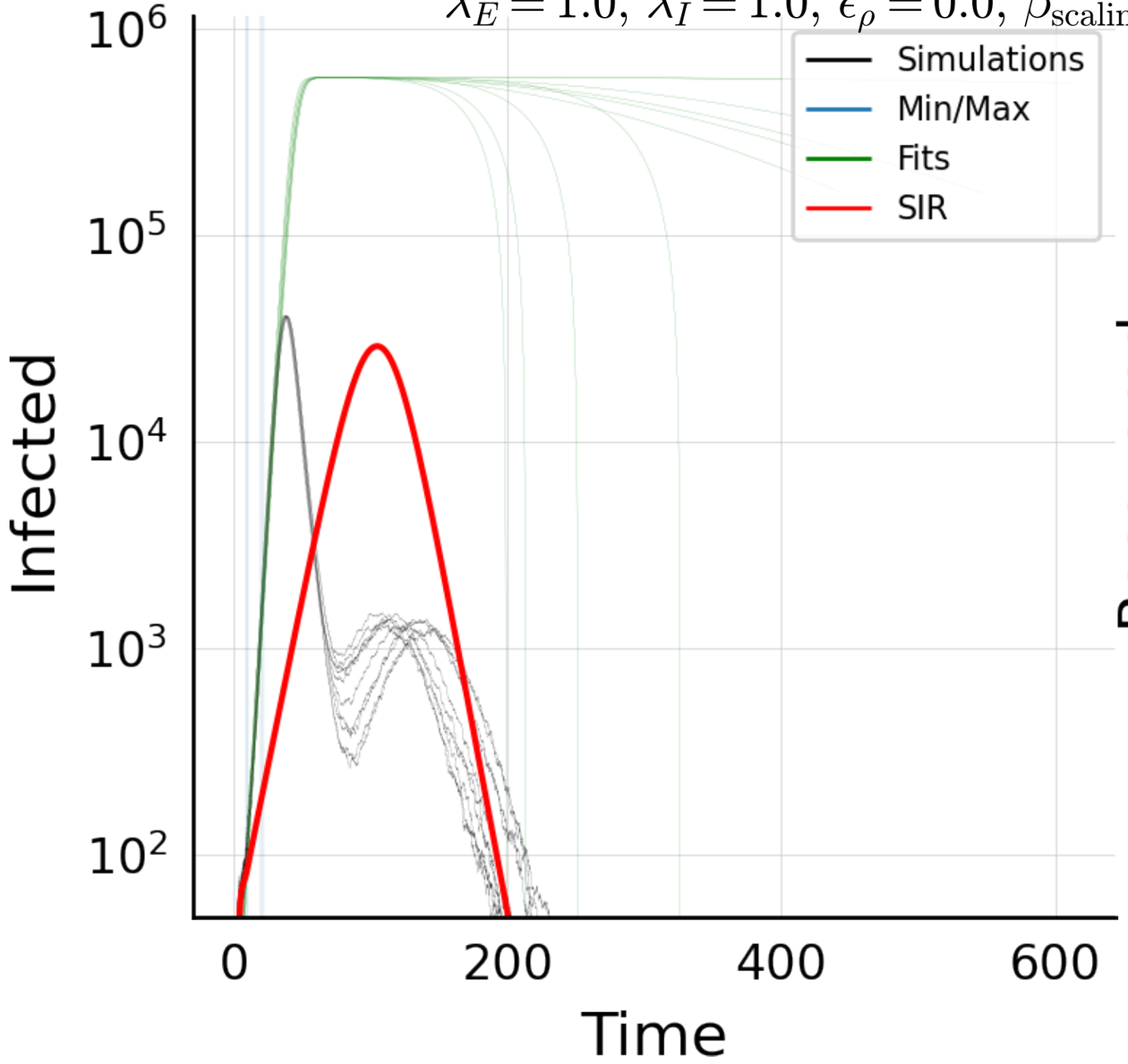
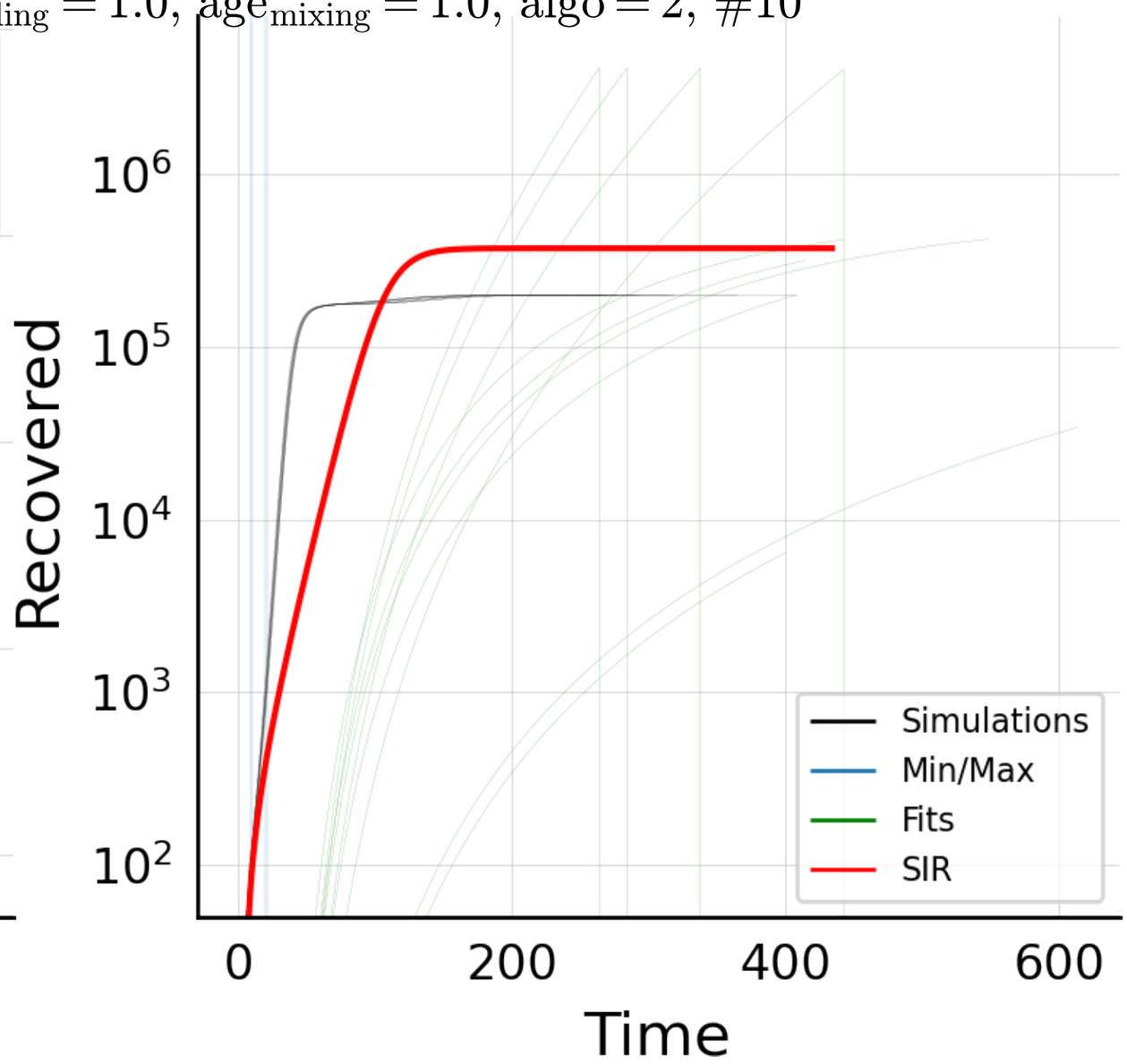
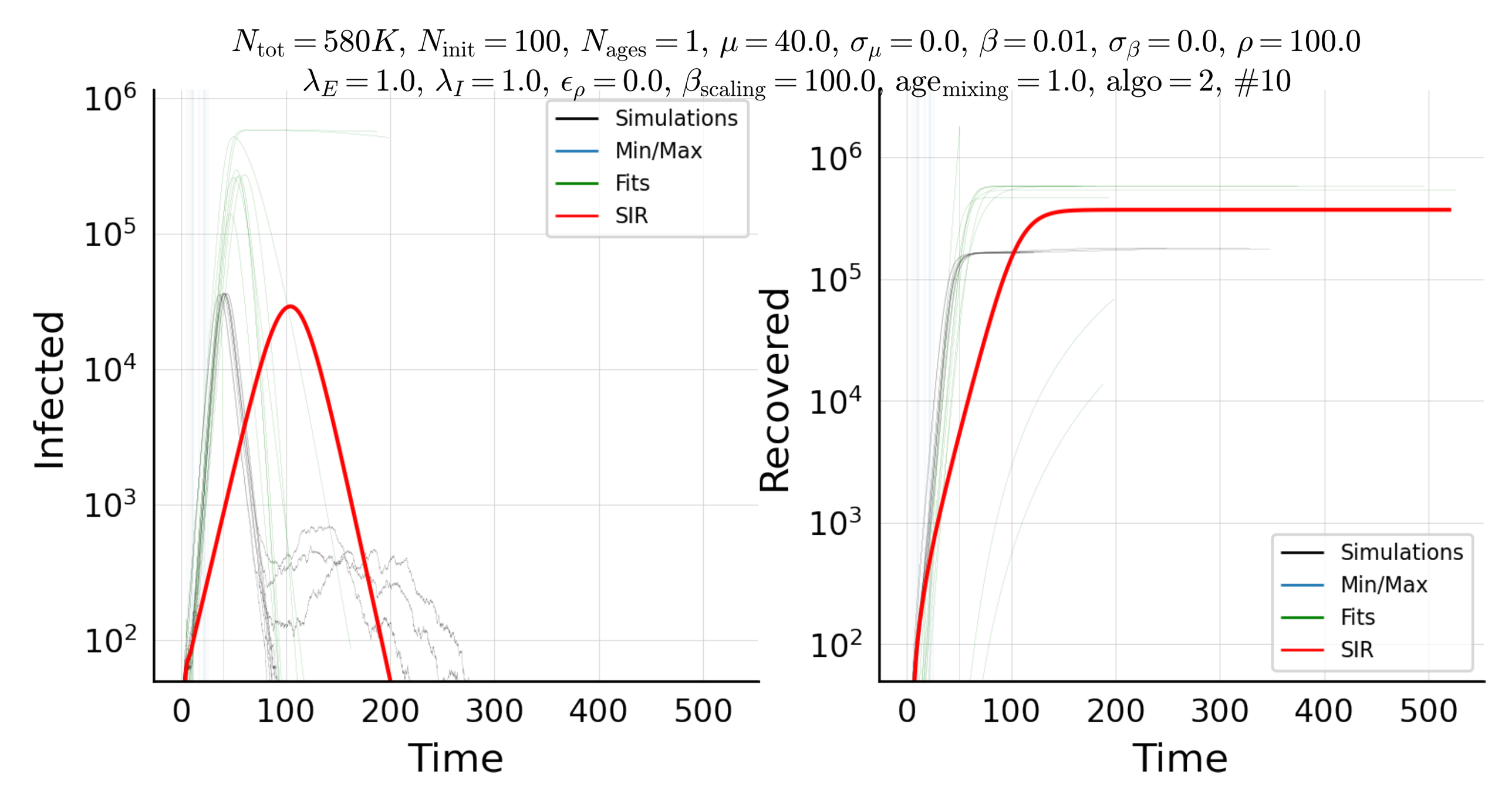
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$

$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$




$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 100.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
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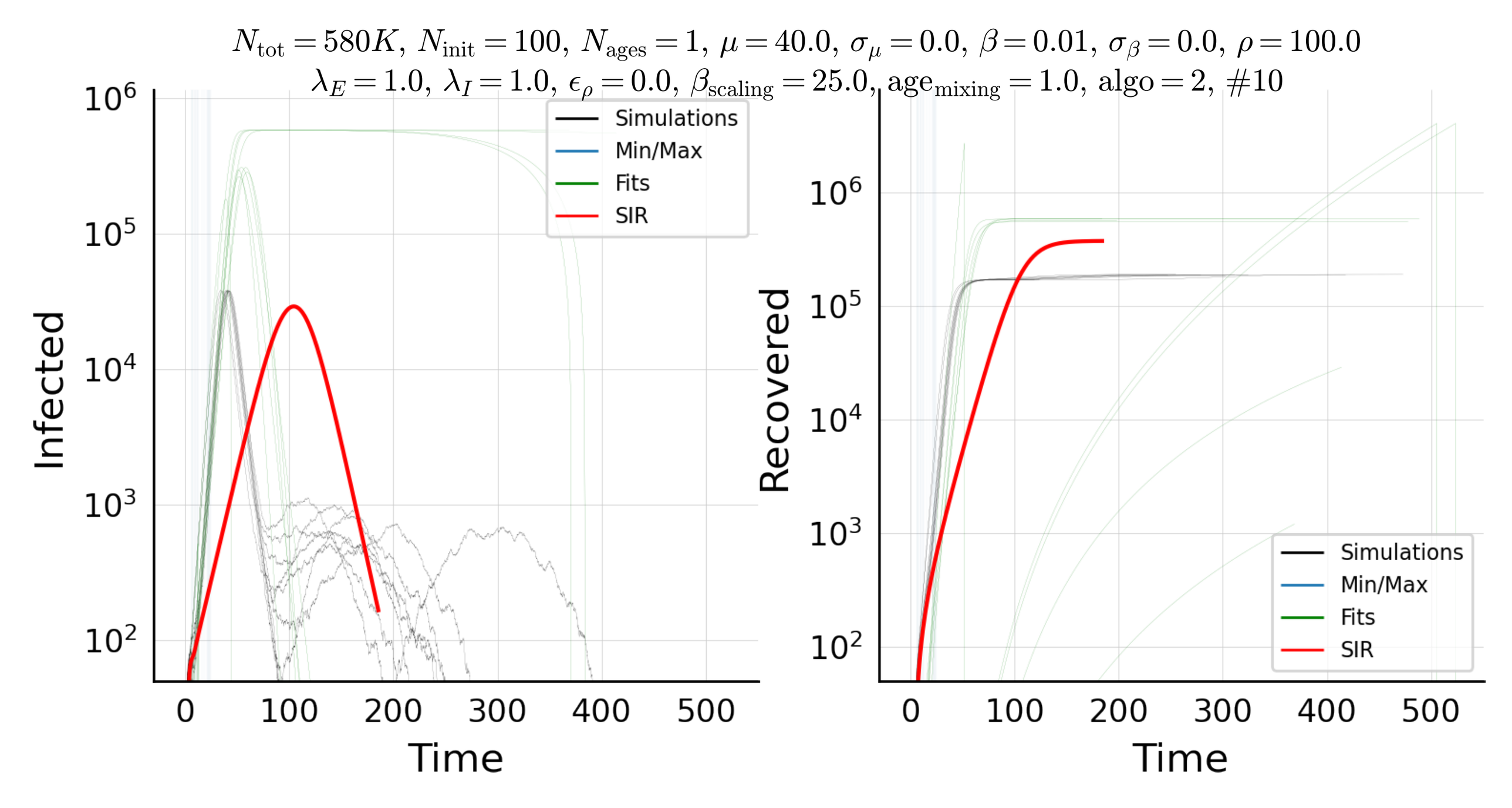
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 25.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
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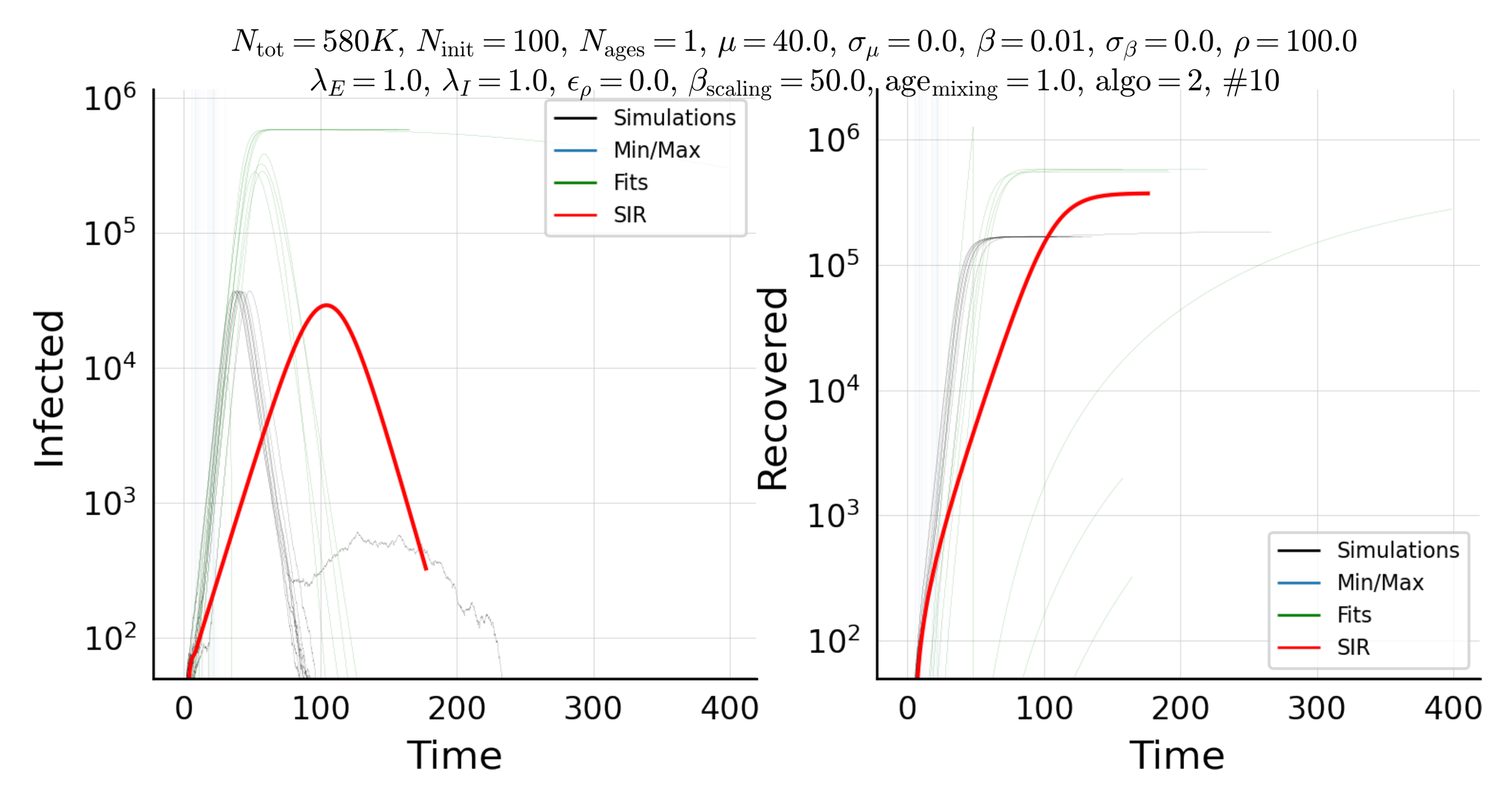
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 50.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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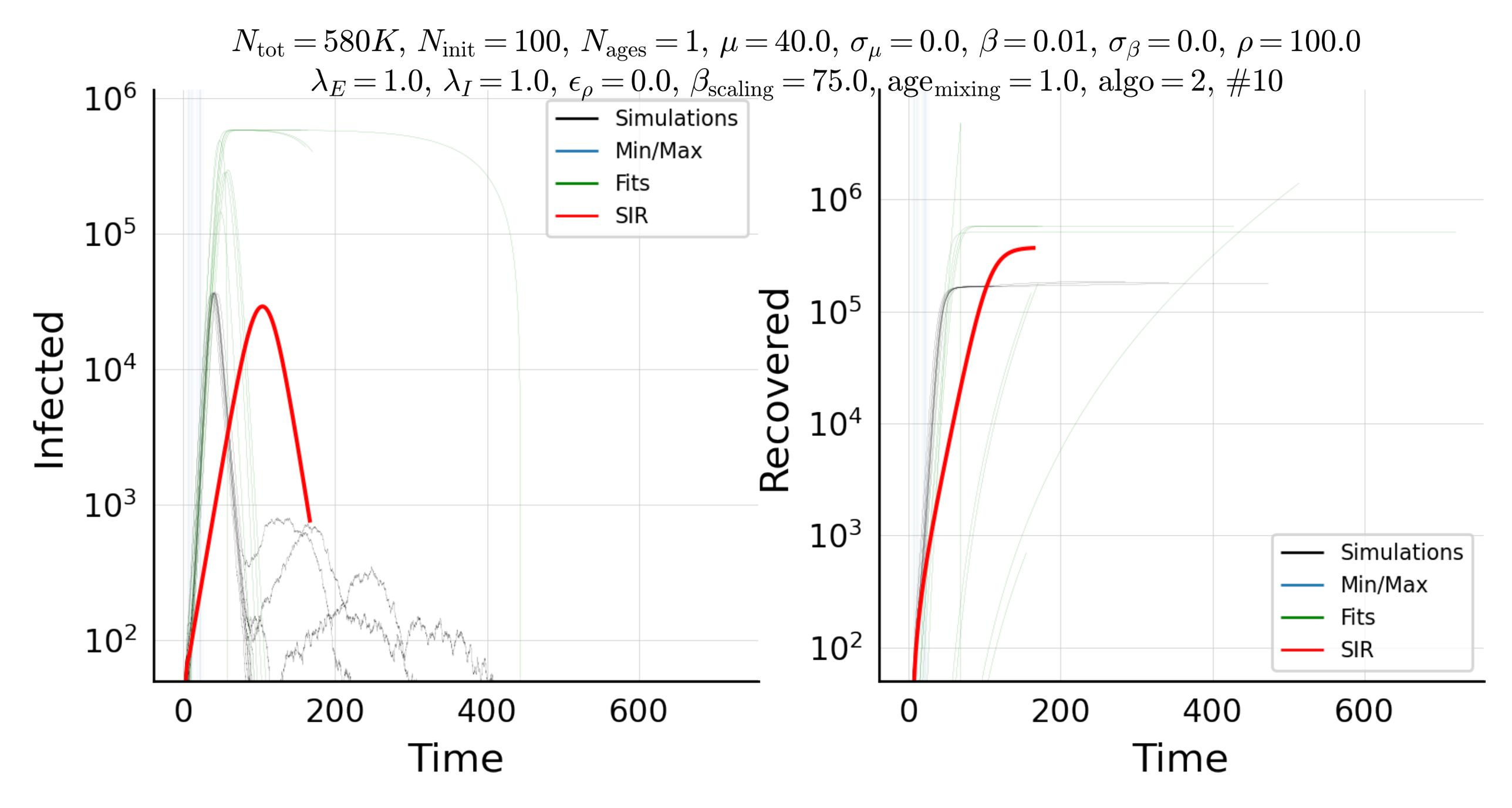
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.0,\ \beta_{\text{scaling}} = 75.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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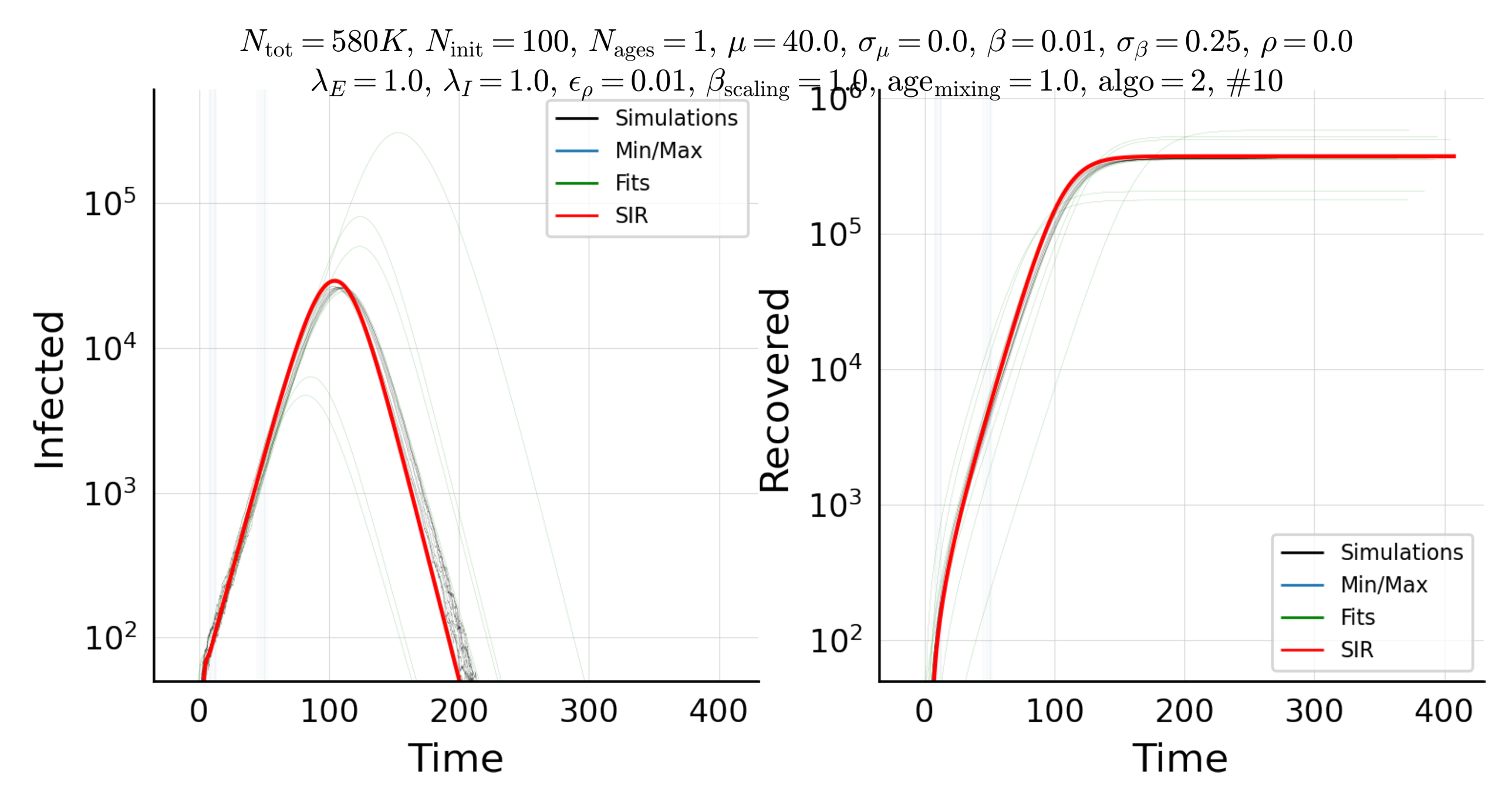
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.25,\ \rho = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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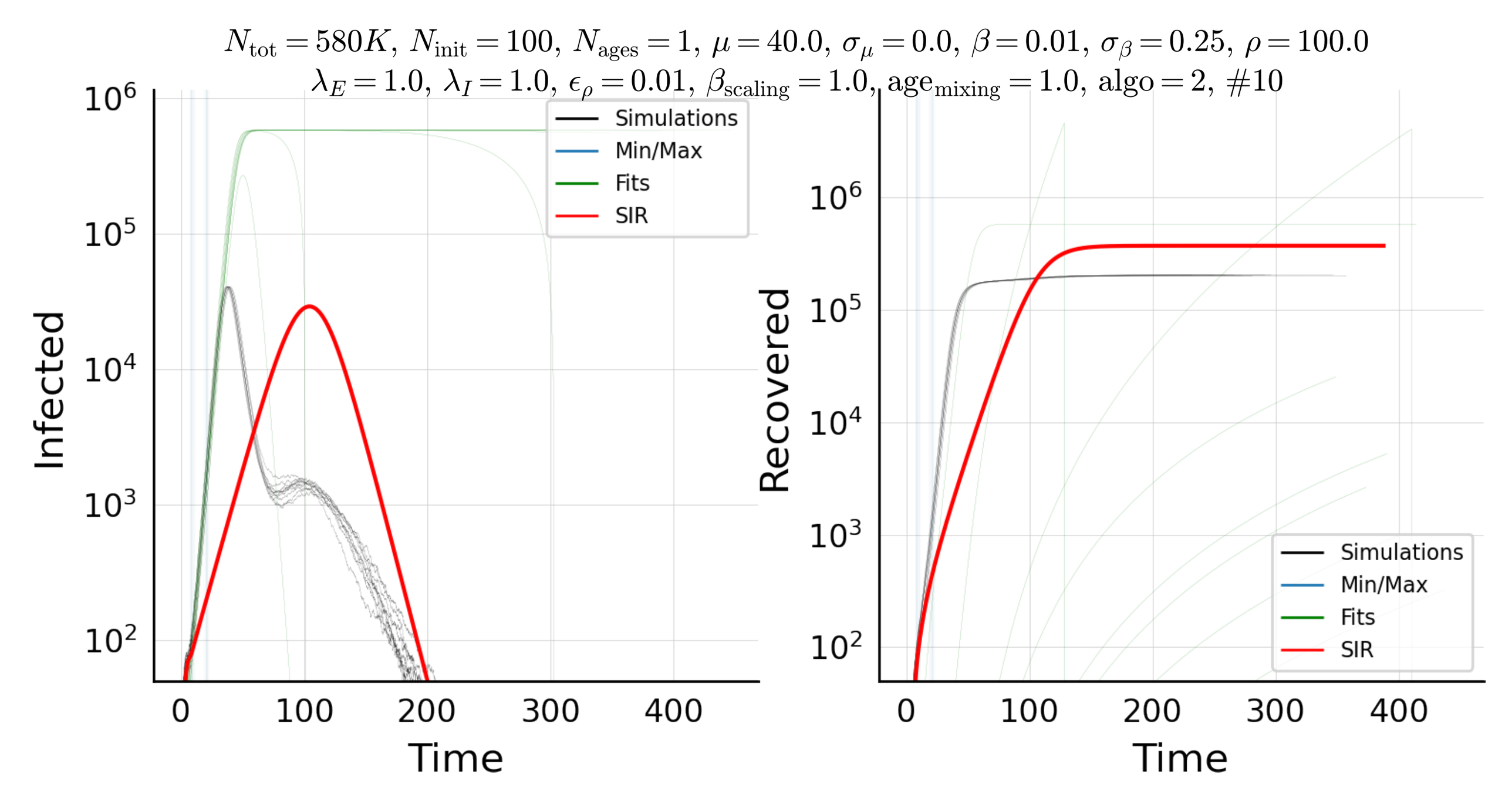
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.25,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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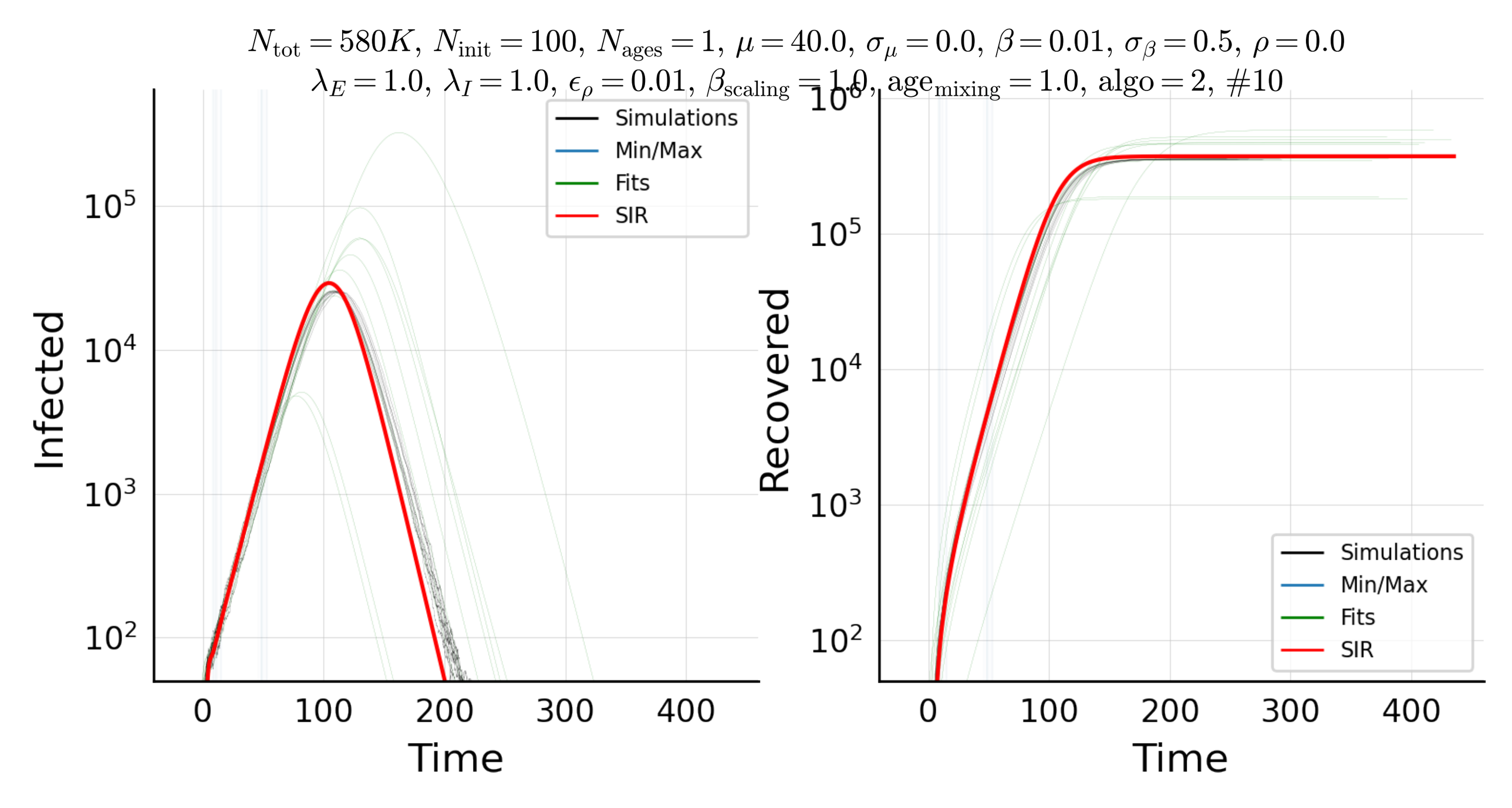
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.5,\ \rho = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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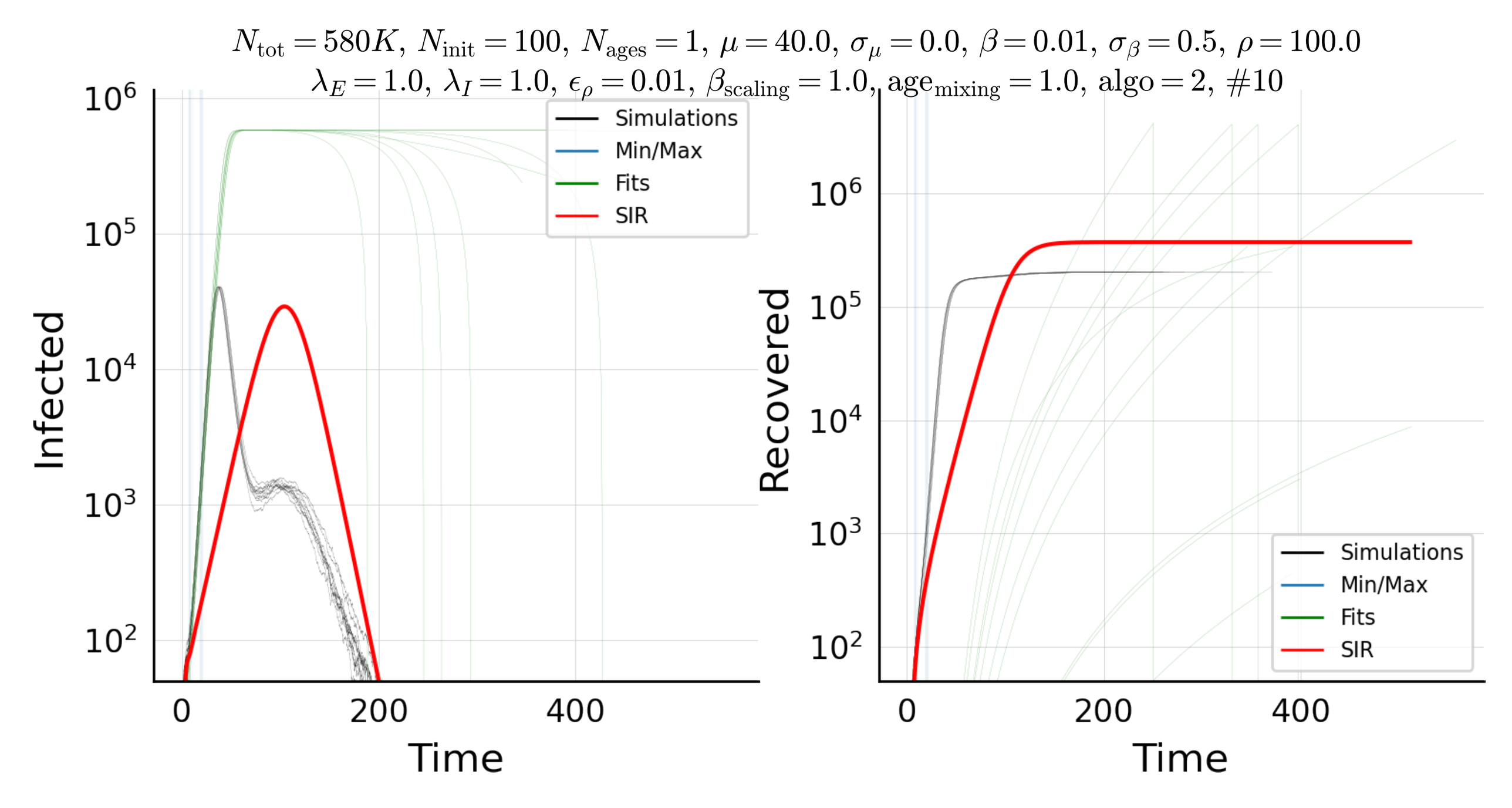
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.5,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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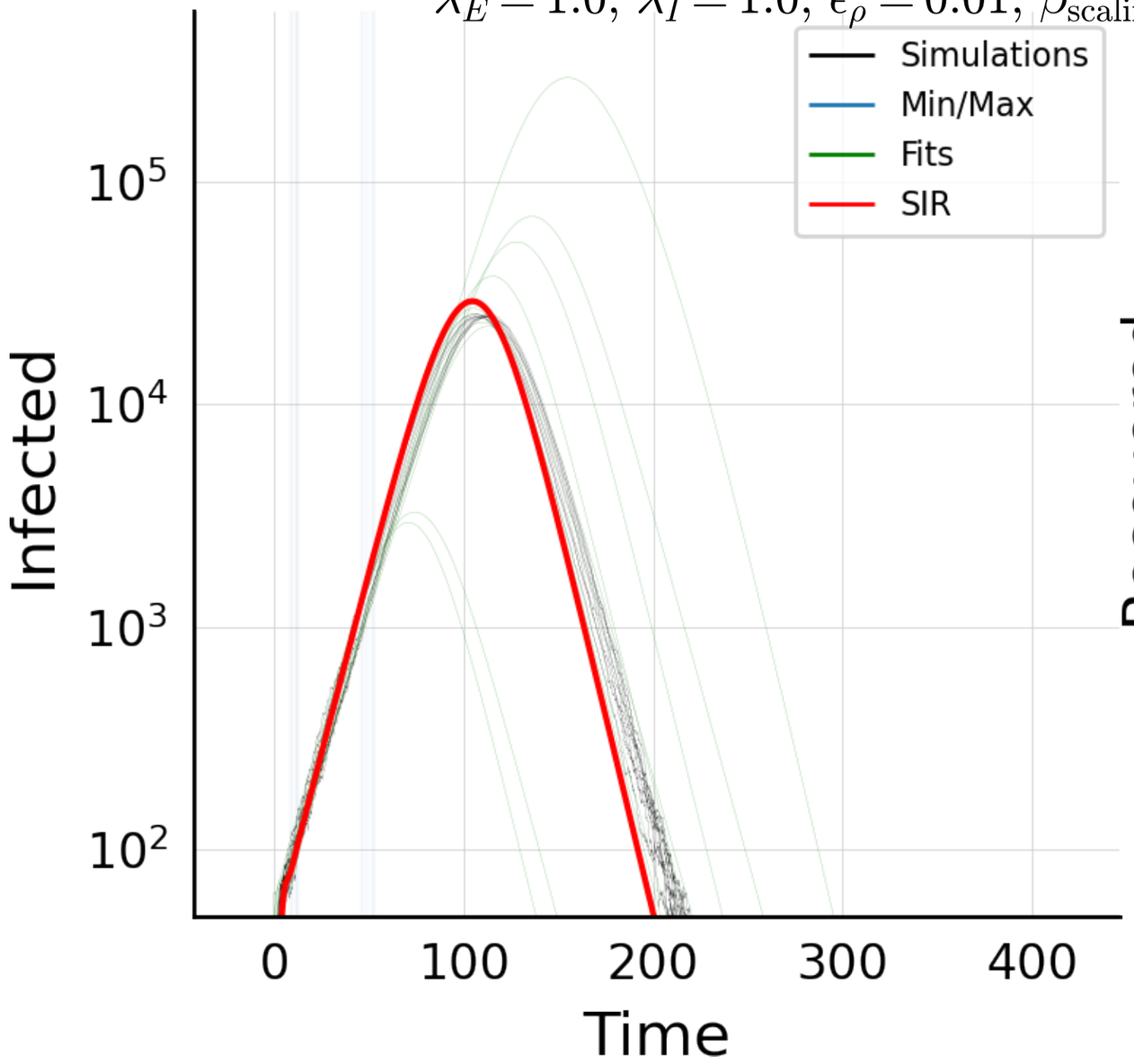
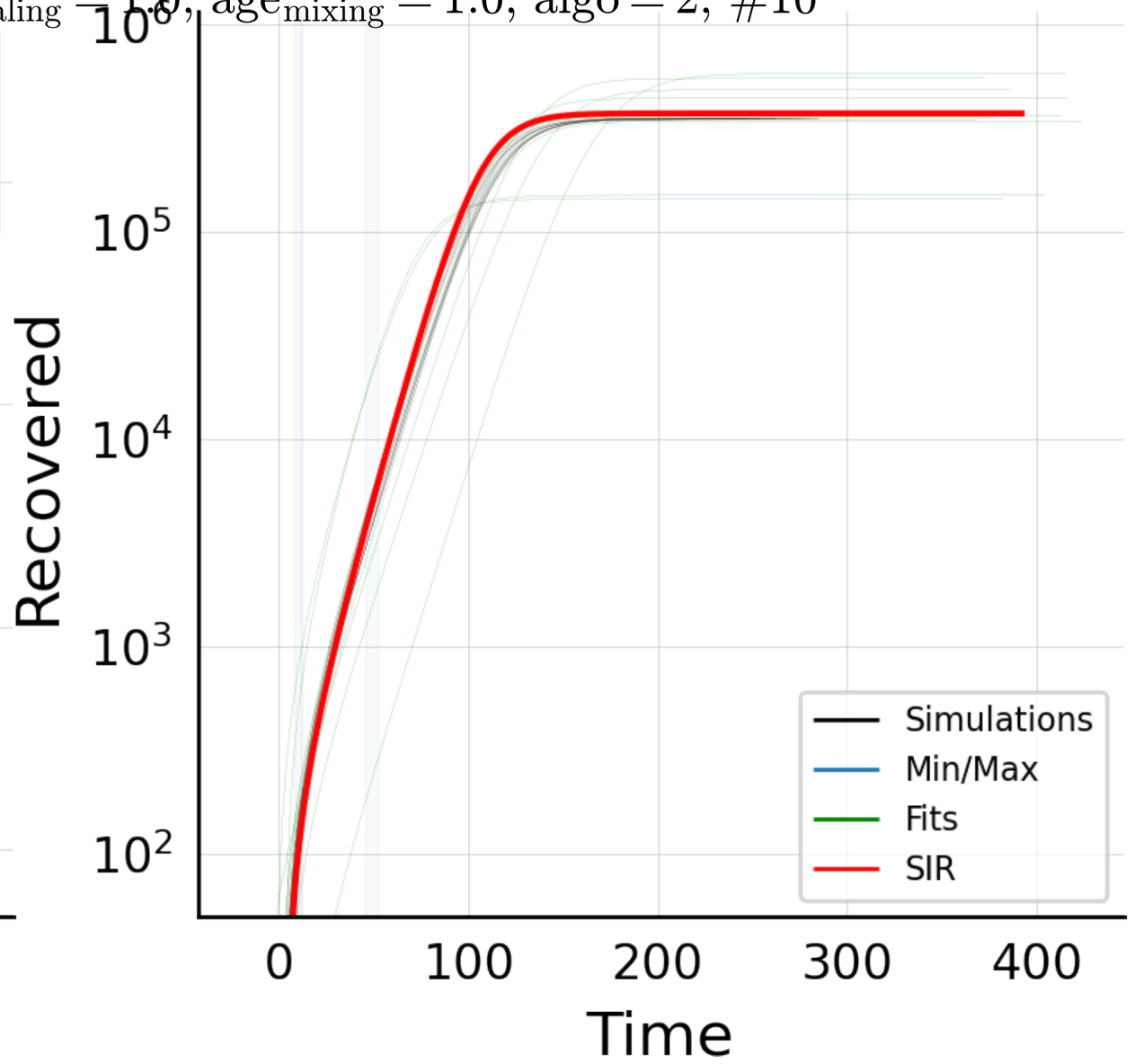
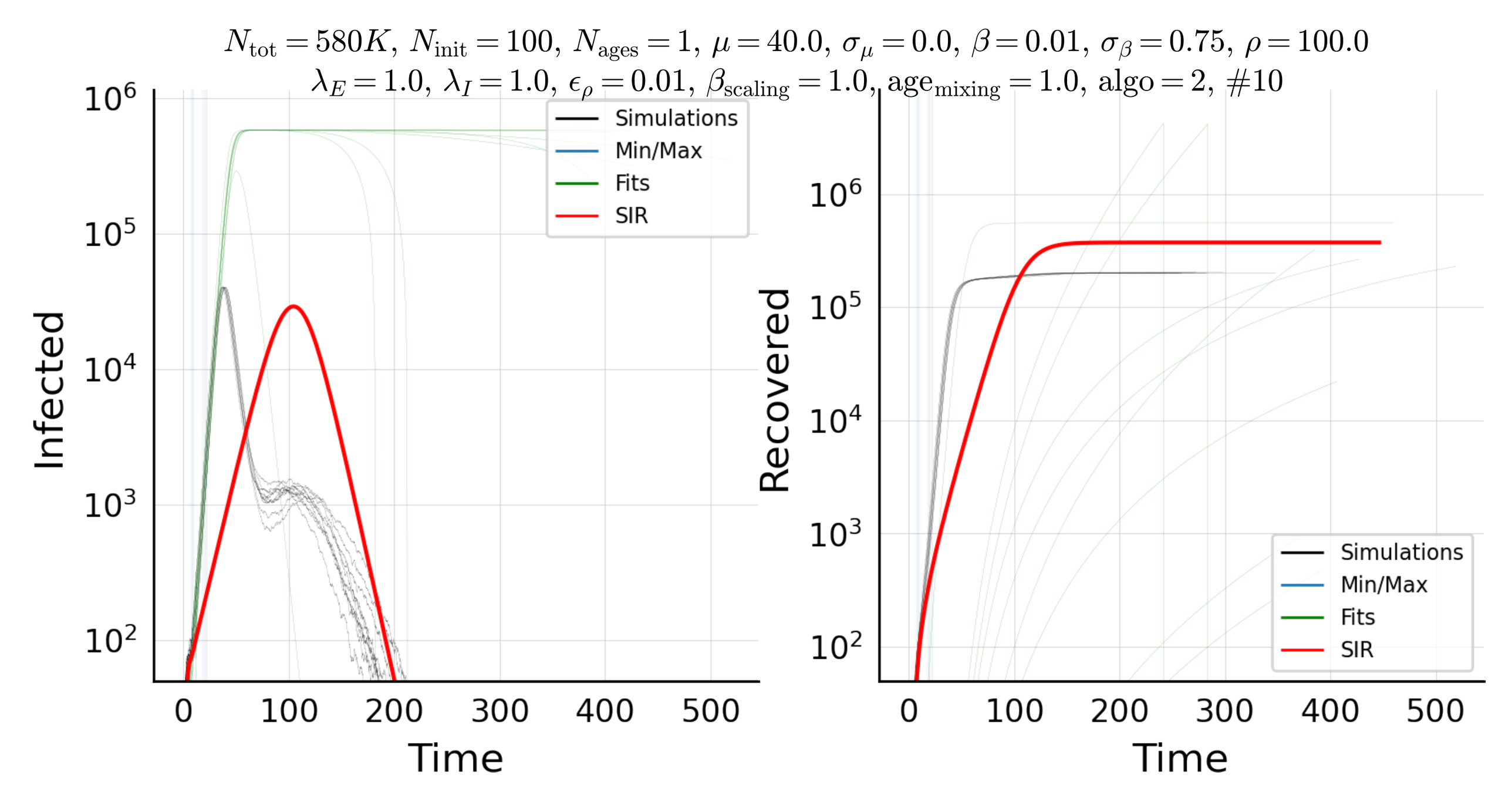
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.75,\ \rho = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$




$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 0.75,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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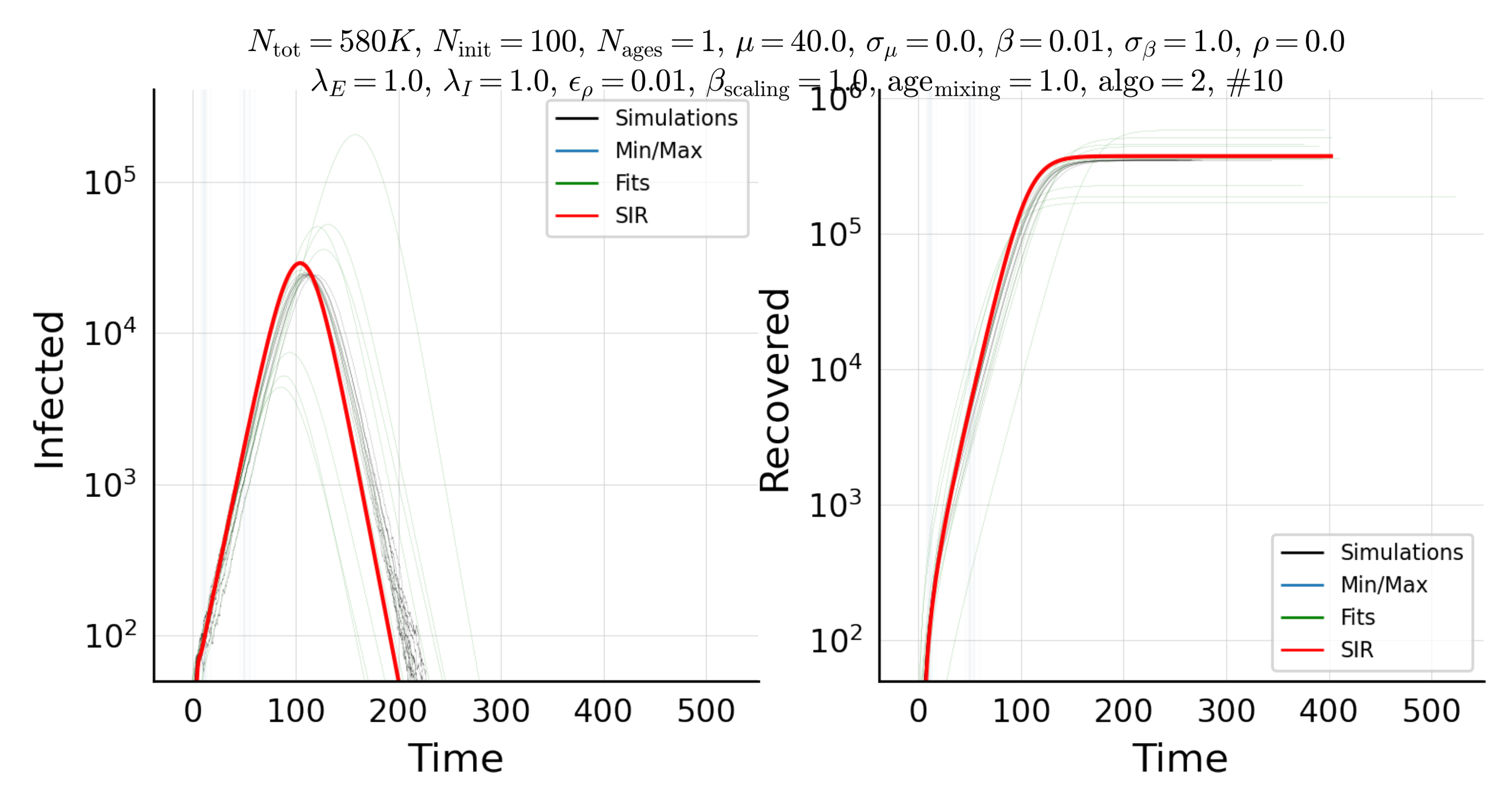
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 1.0,\ \rho = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
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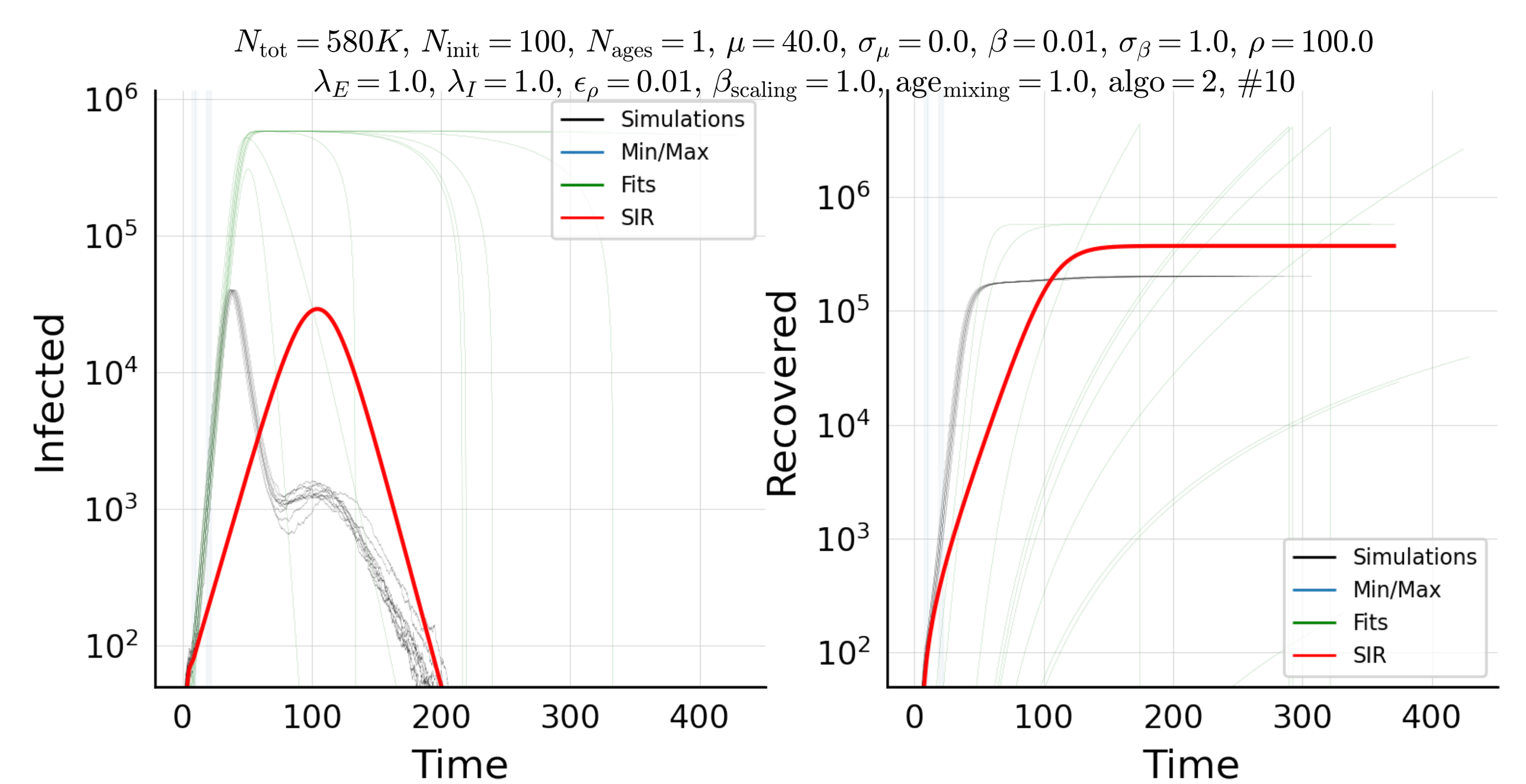
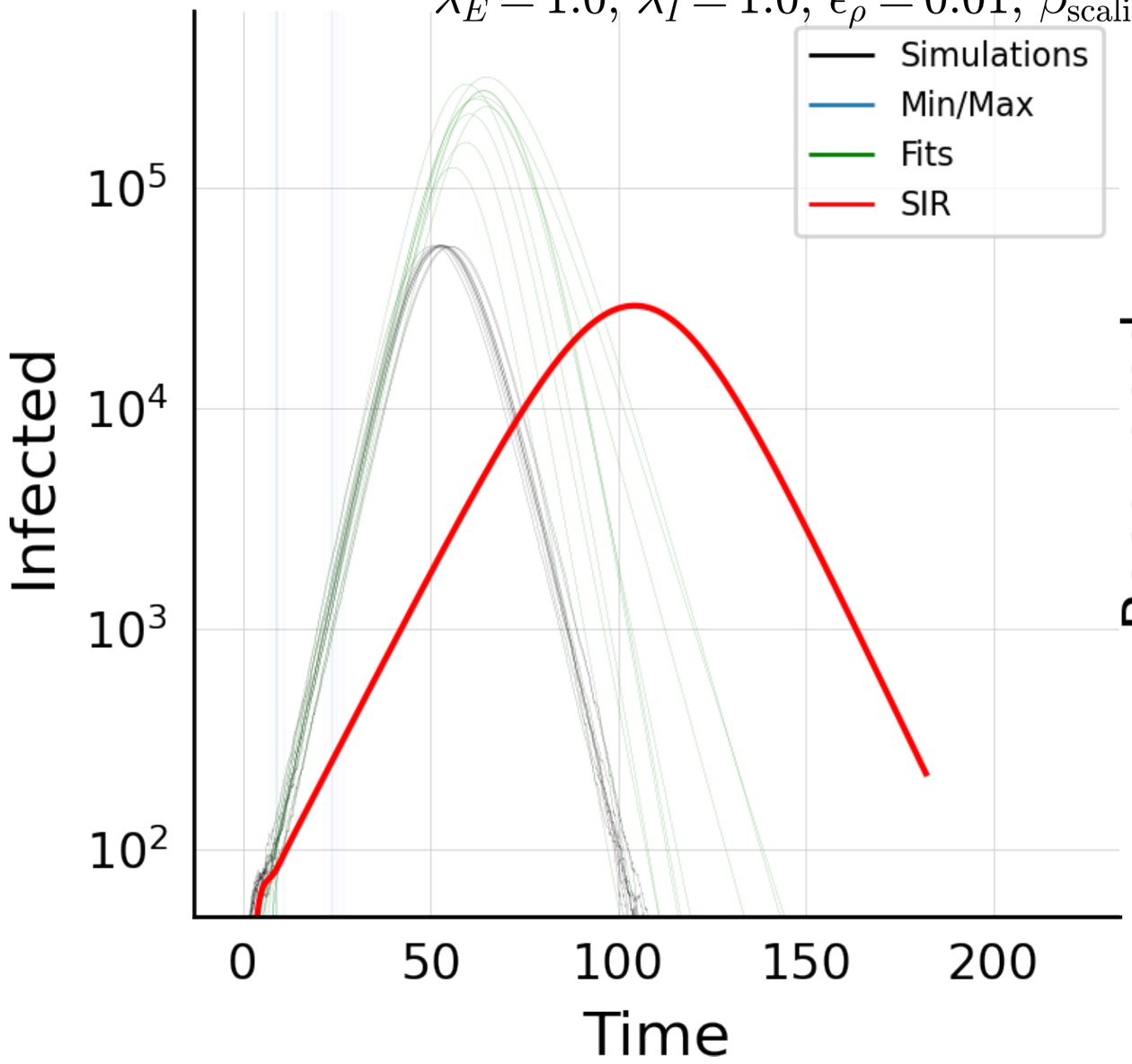
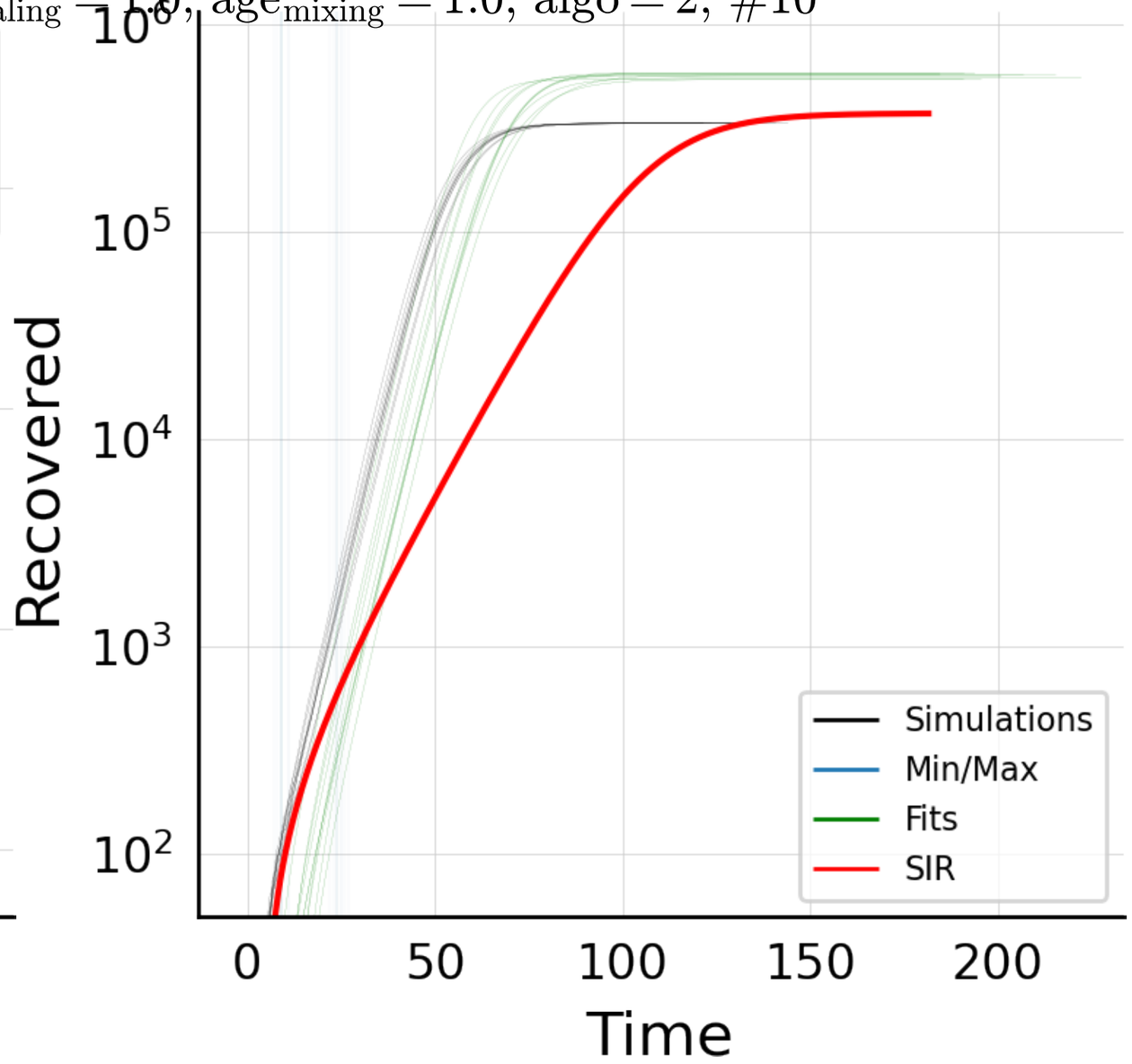
500


$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 0.0,\ \beta = 0.01,\ \sigma_\beta = 1.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
Recovered
Time
Simulations
Min/Max
Fits
SIR
$10^2$
$10^3$
$10^4$
$10^5$
$10^6$
0
100
200
300
400

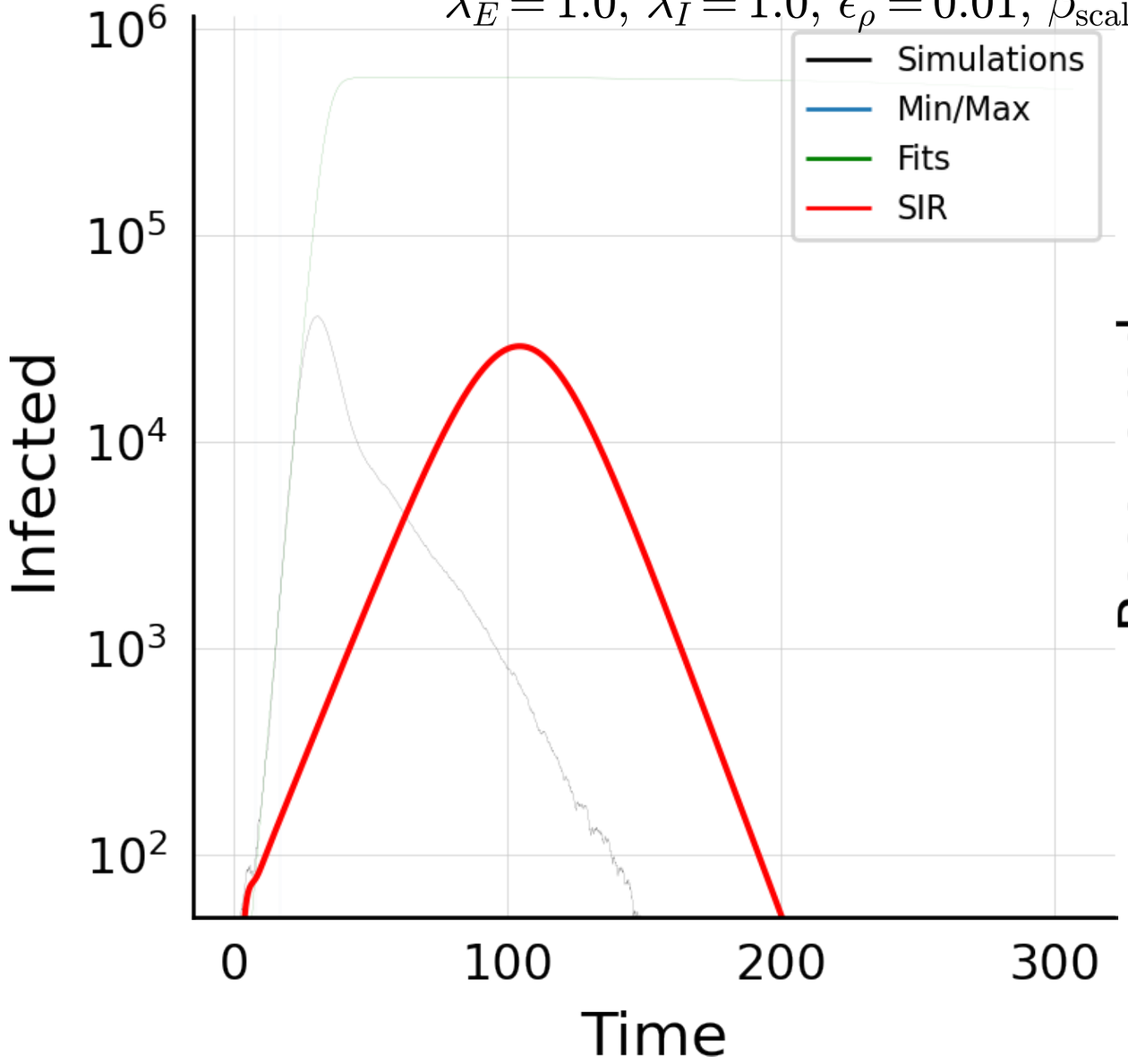
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 1.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$

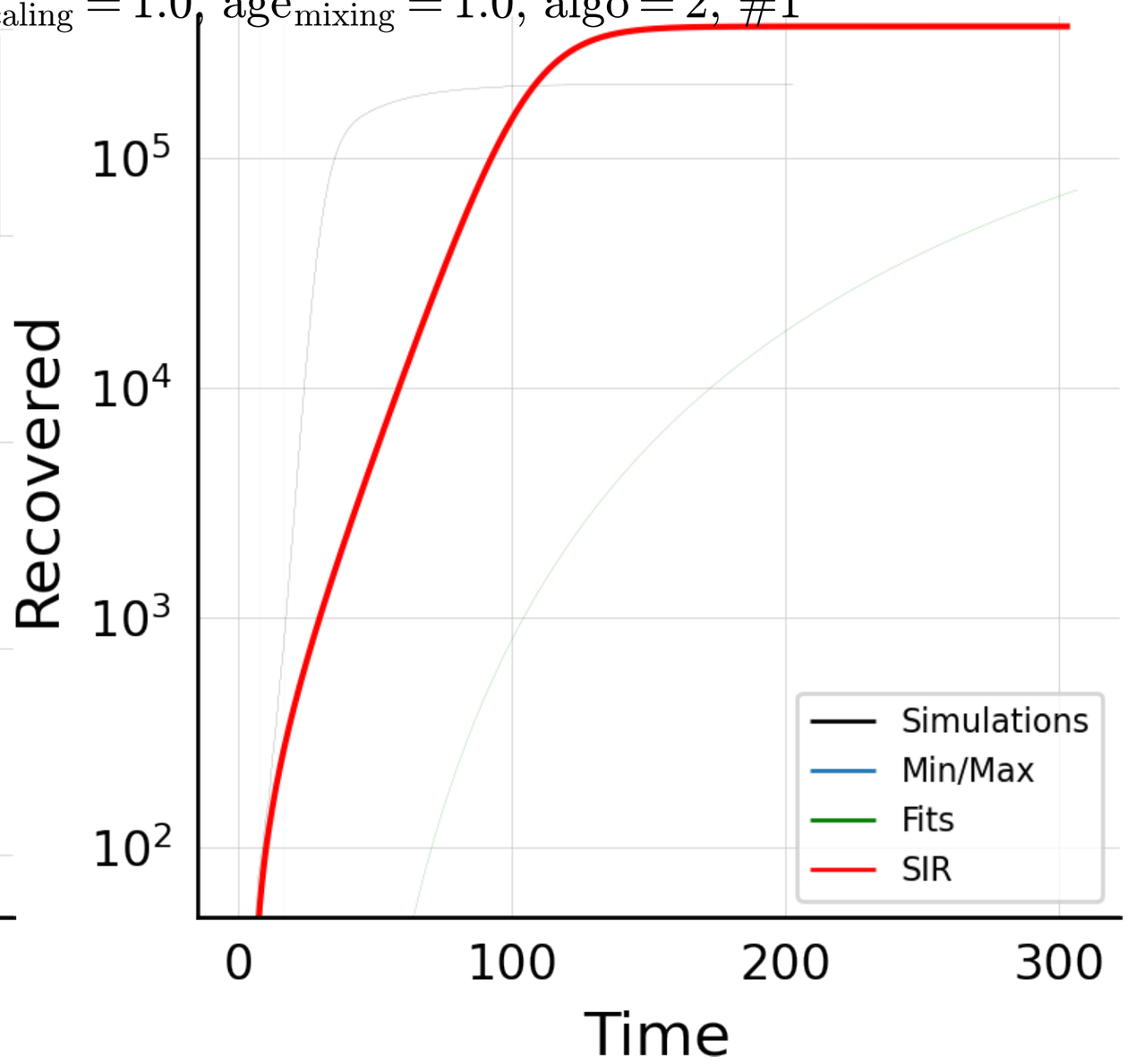


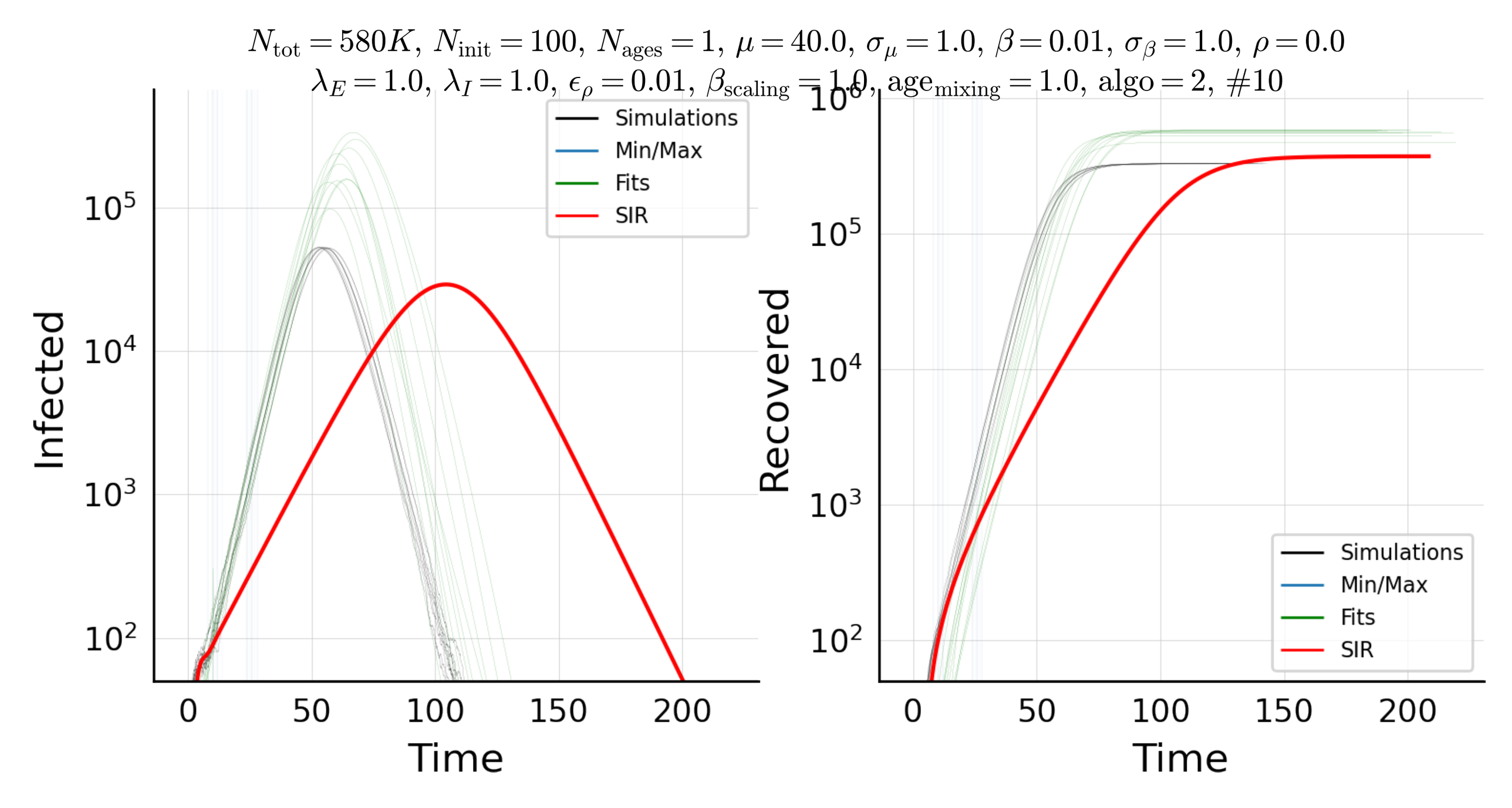



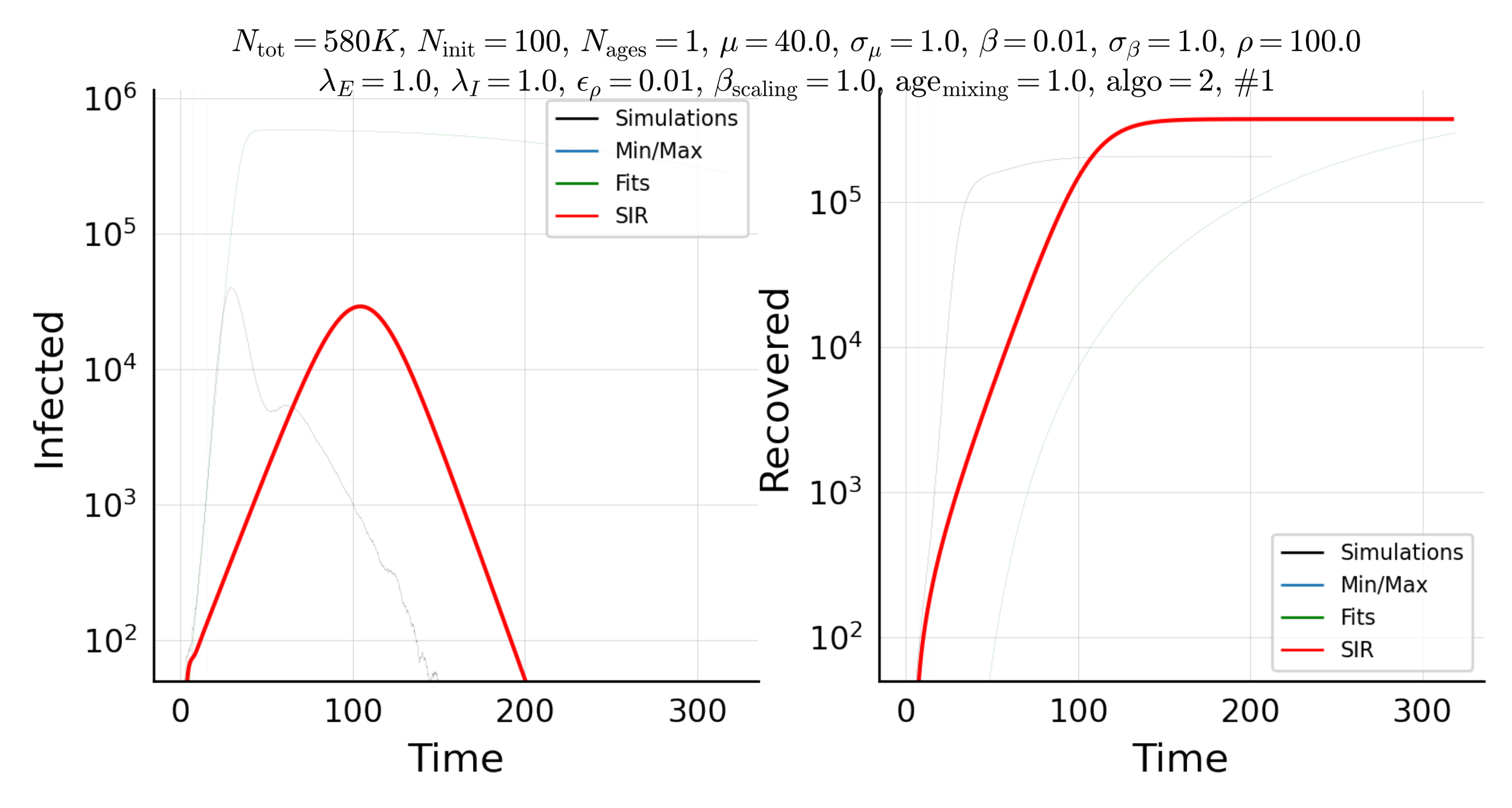
$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 1.0,\ \beta = 0.01,\ \sigma_\beta = 0.0,\ \rho = 100.0$

$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#1$




$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 1.0,\ \beta = 0.01,\ \sigma_\beta = 1.0,\ \rho = 0.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#10$
Infected
Recovered
Time
Time
Simulations
Min/Max
Fits
SIR
Simulations
Min/Max
Fits
SIR


$N_{\text{tot}} = 580K,\ N_{\text{init}} = 100,\ N_{\text{ages}} = 1,\ \mu = 40.0,\ \sigma_\mu = 1.0,\ \beta = 0.01,\ \sigma_\beta = 1.0,\ \rho = 100.0$
$\lambda_E = 1.0,\ \lambda_I = 1.0,\ \epsilon_\rho = 0.01,\ \beta_{\text{scaling}} = 1.0,\ \text{age}_{\text{mixing}} = 1.0,\ \text{algo} = 2,\ \#1$
Infected
Recovered
Time
Time
Simulations
Min/Max
Fits
SIR
Simulations
Min/Max
Fits
SIR