

Supplementary Materials: New Statistical Models for Copolymerization

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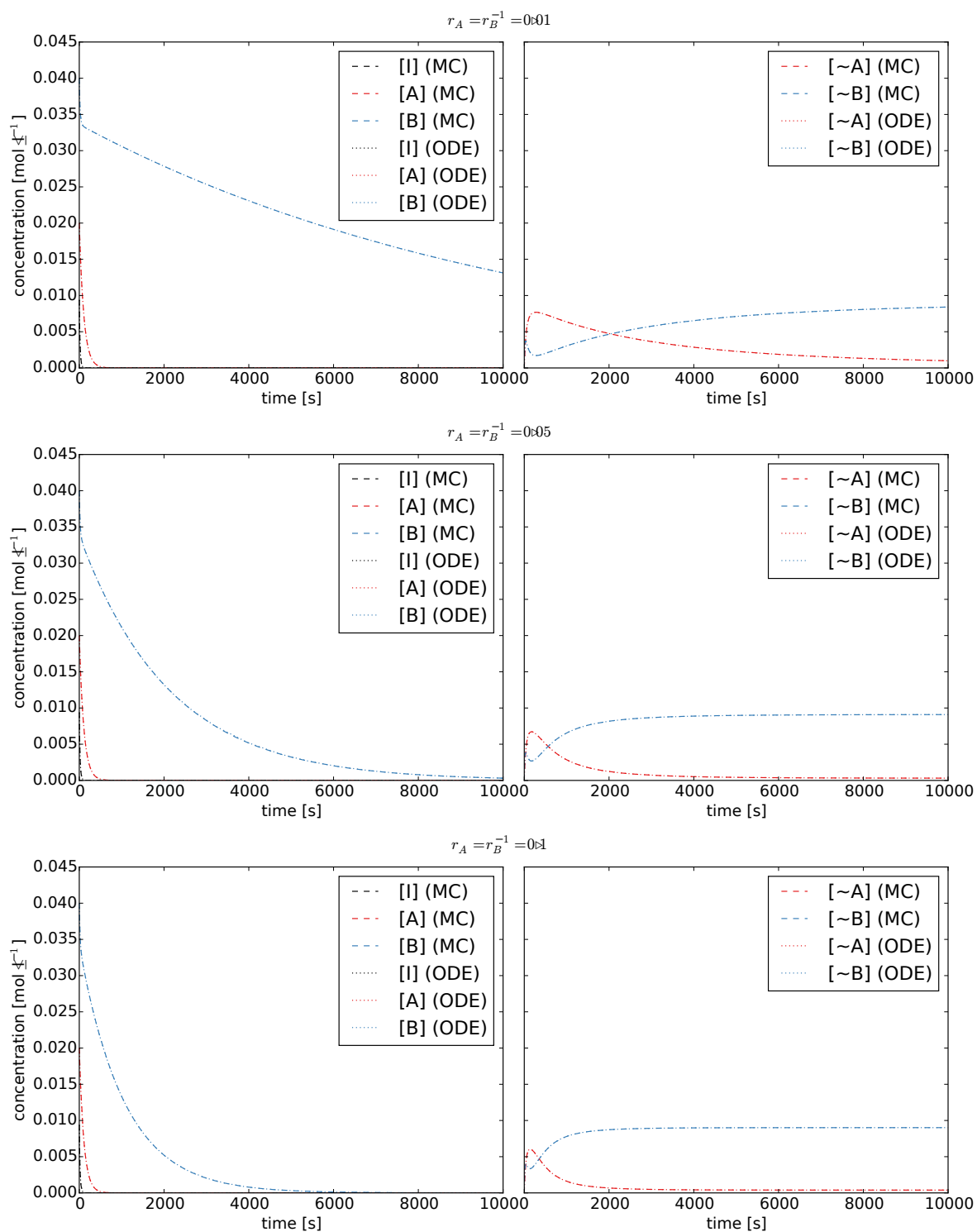


Figure S1. Cont.

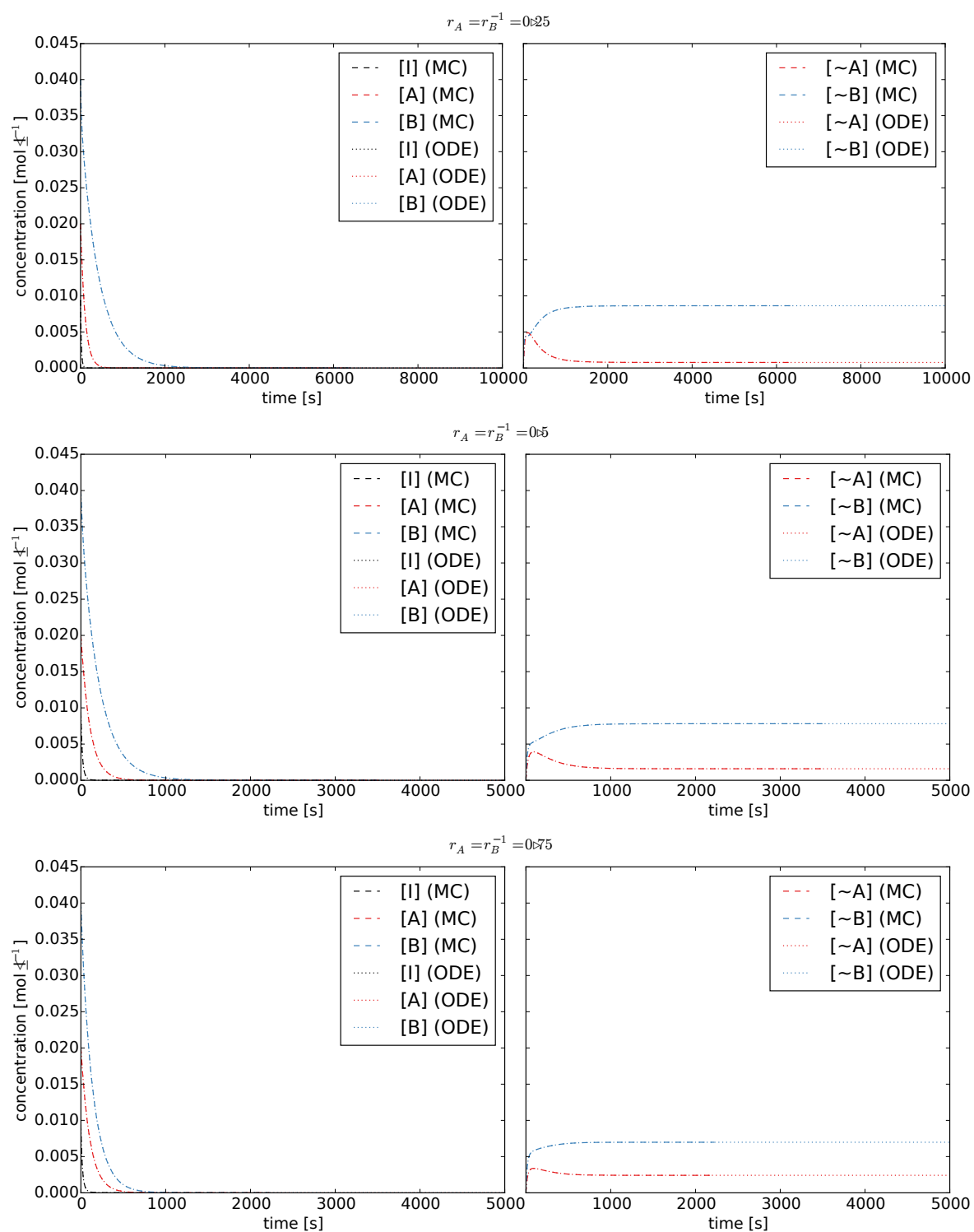


Figure S1. Cont.

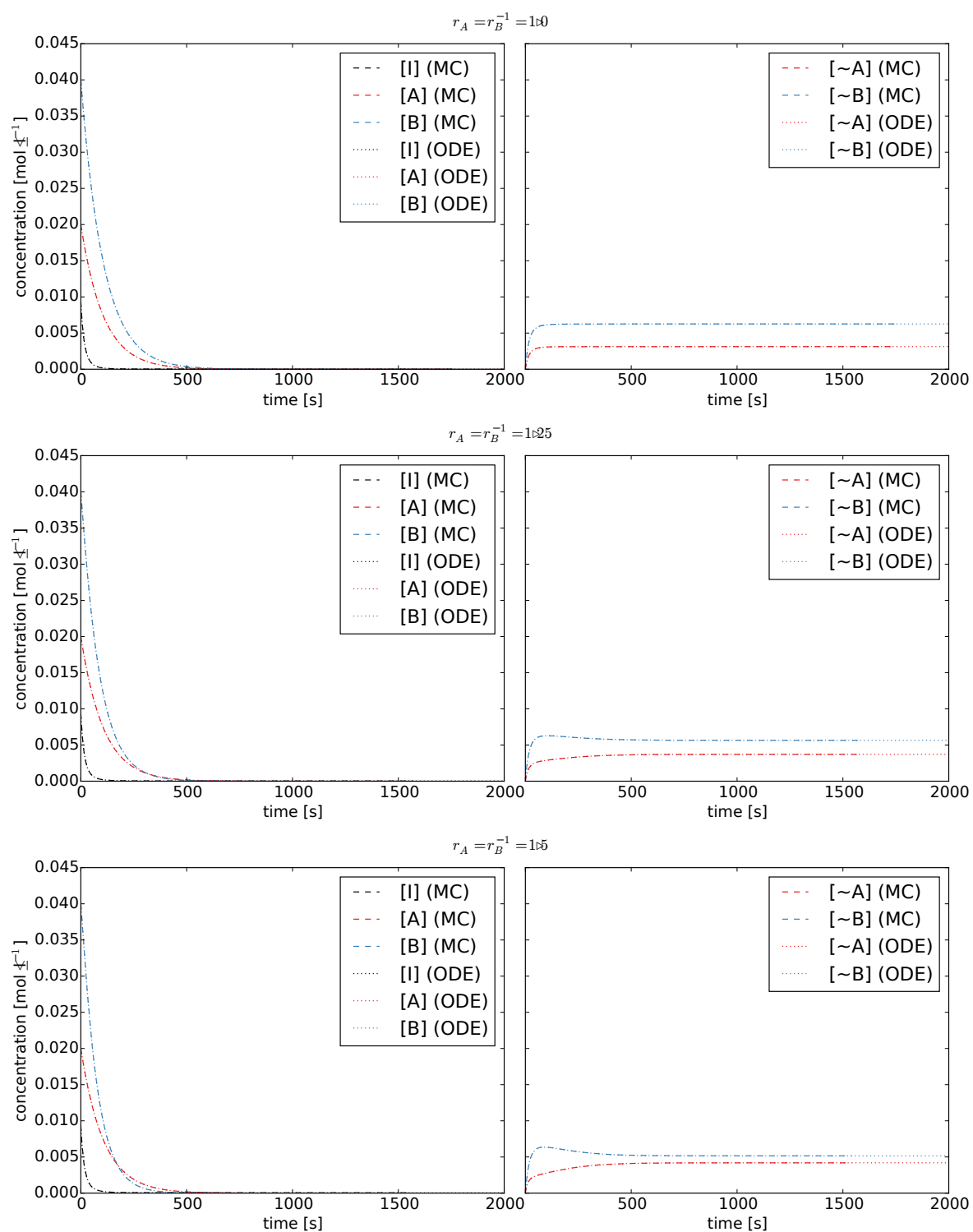


Figure S1. Cont.

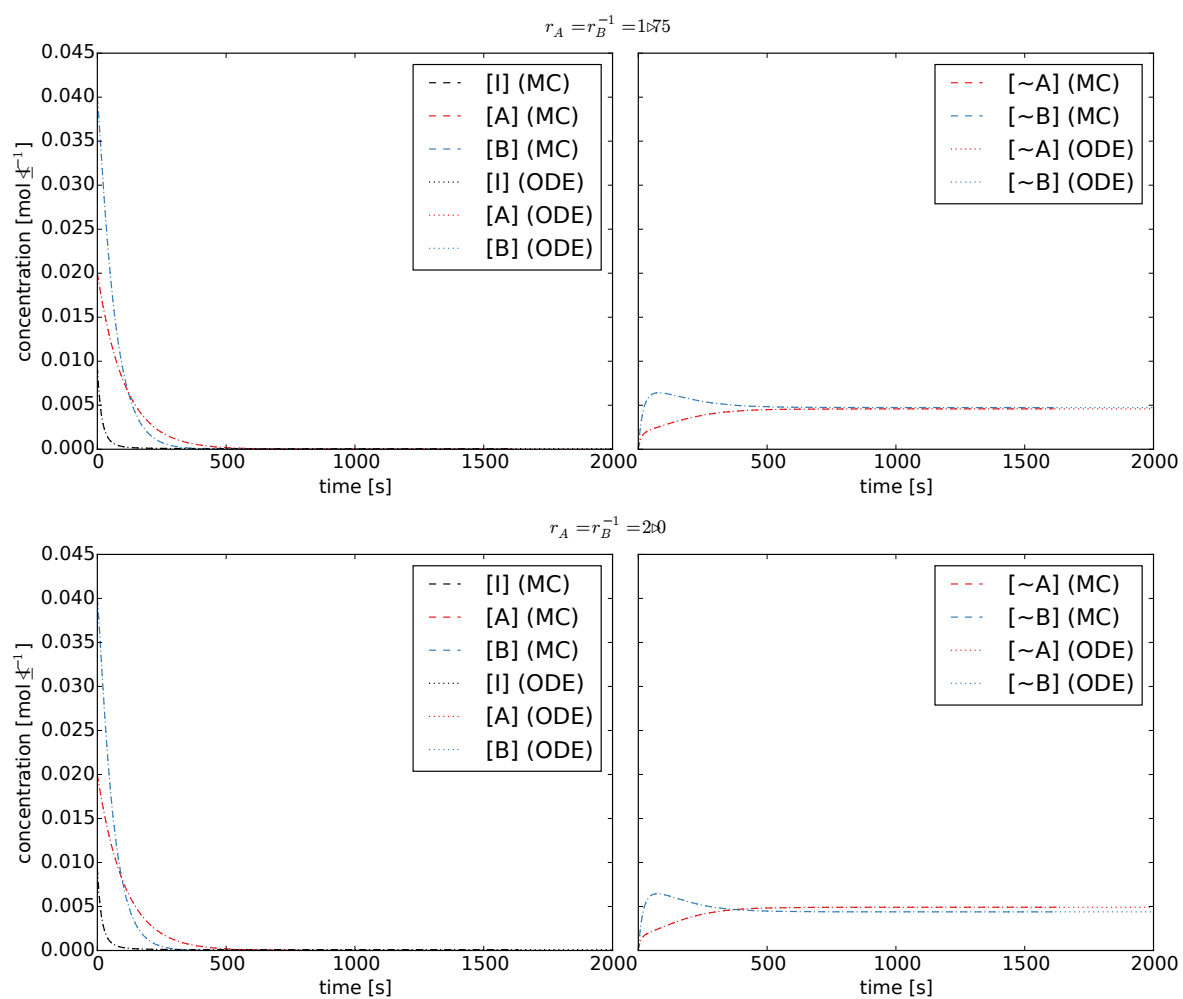


Figure S1. Reactant (**left**) and product (**right**) concentrations simulated by Monte-Carlo (MC) compared to the concentrations computed by solving the ordinary differential equation (ODE) model of the living copolymerization.

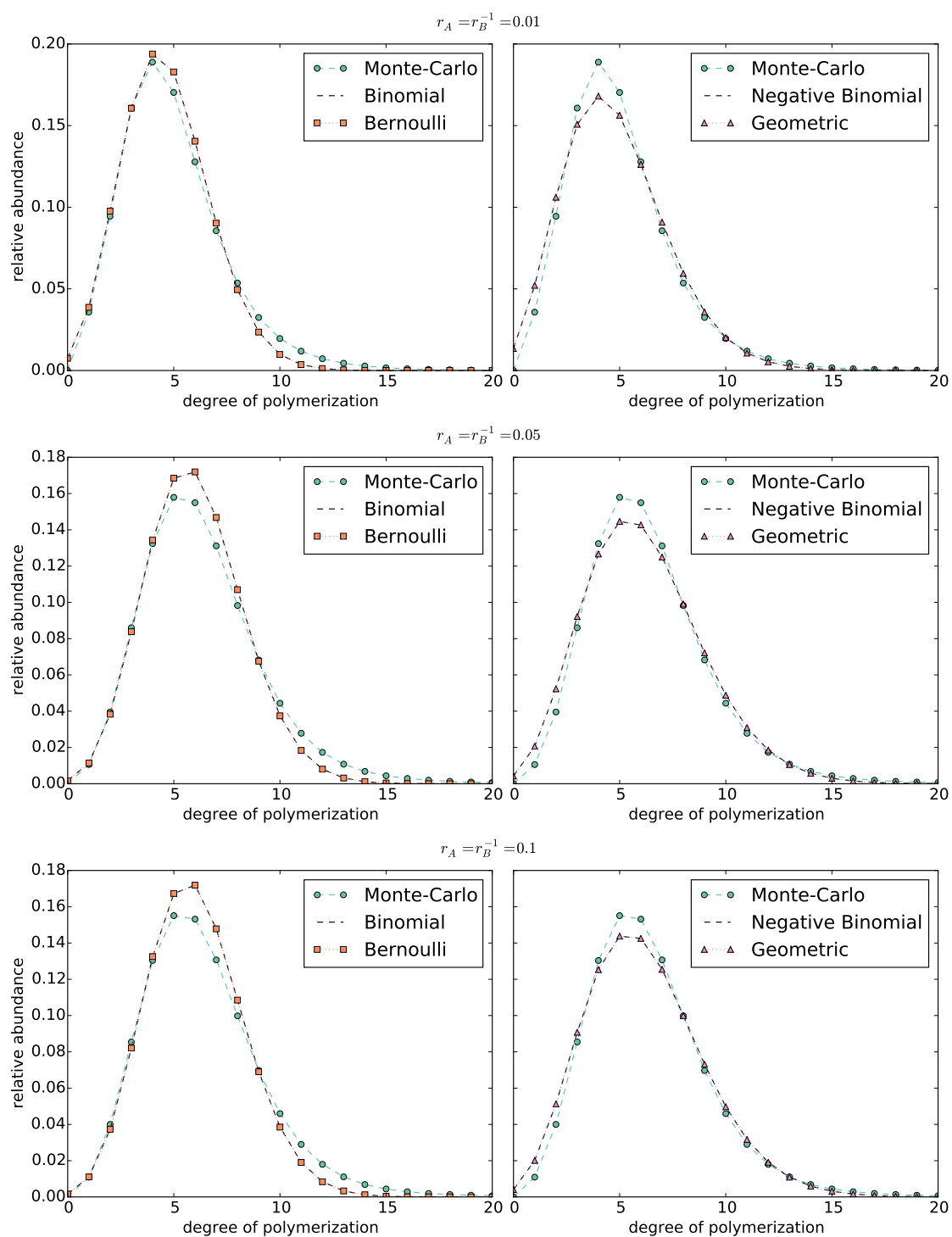


Figure S2. Cont.

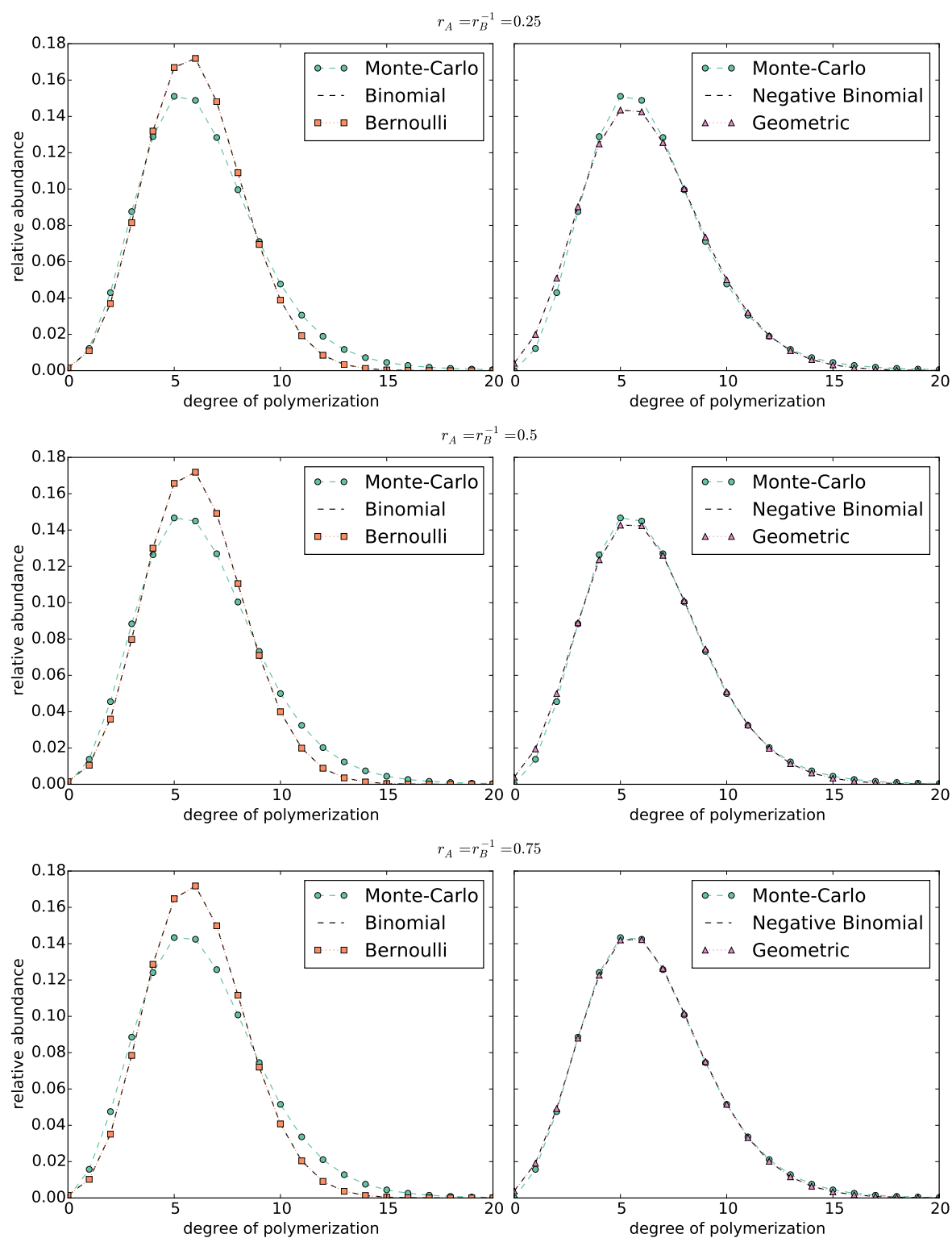


Figure S2. Cont.

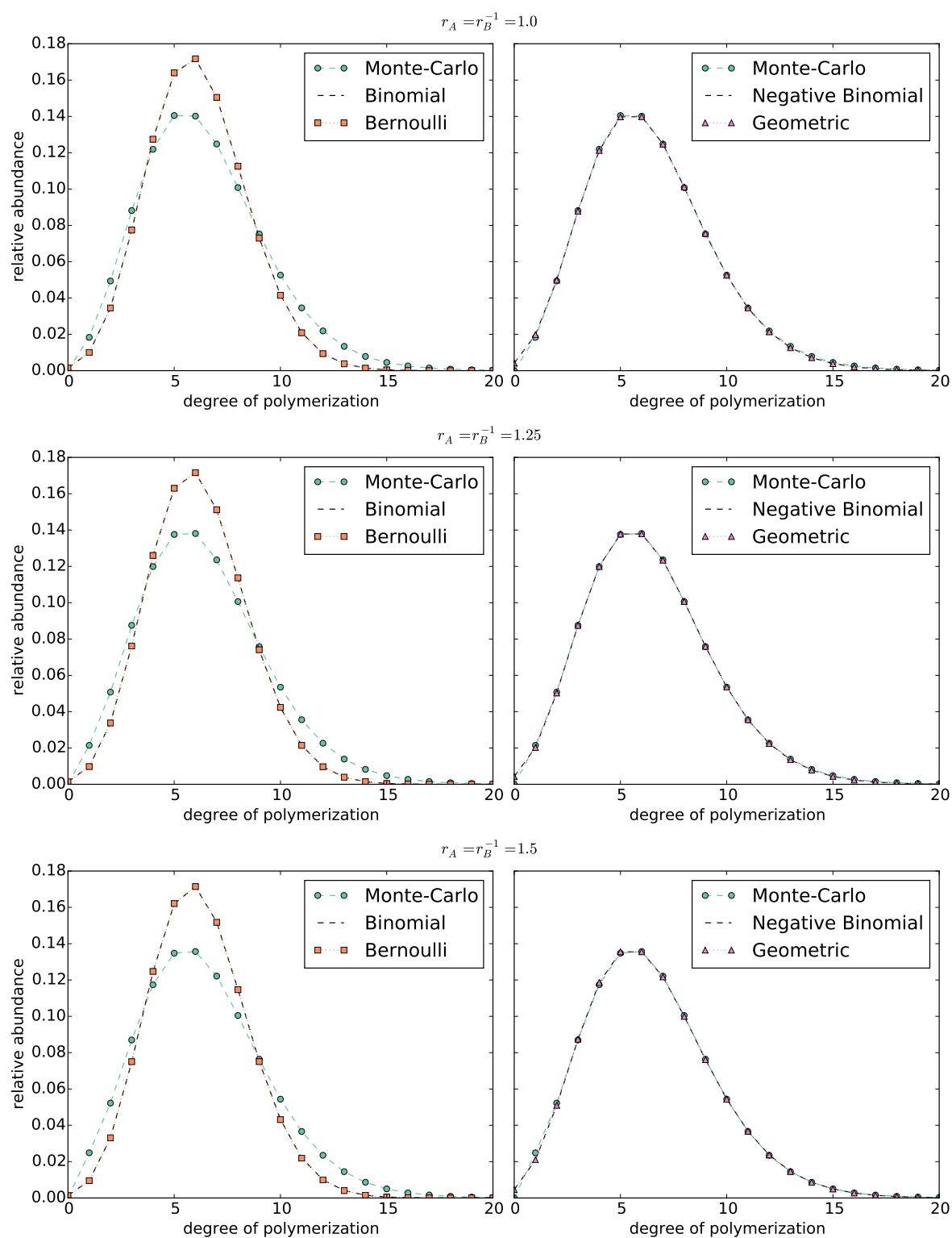


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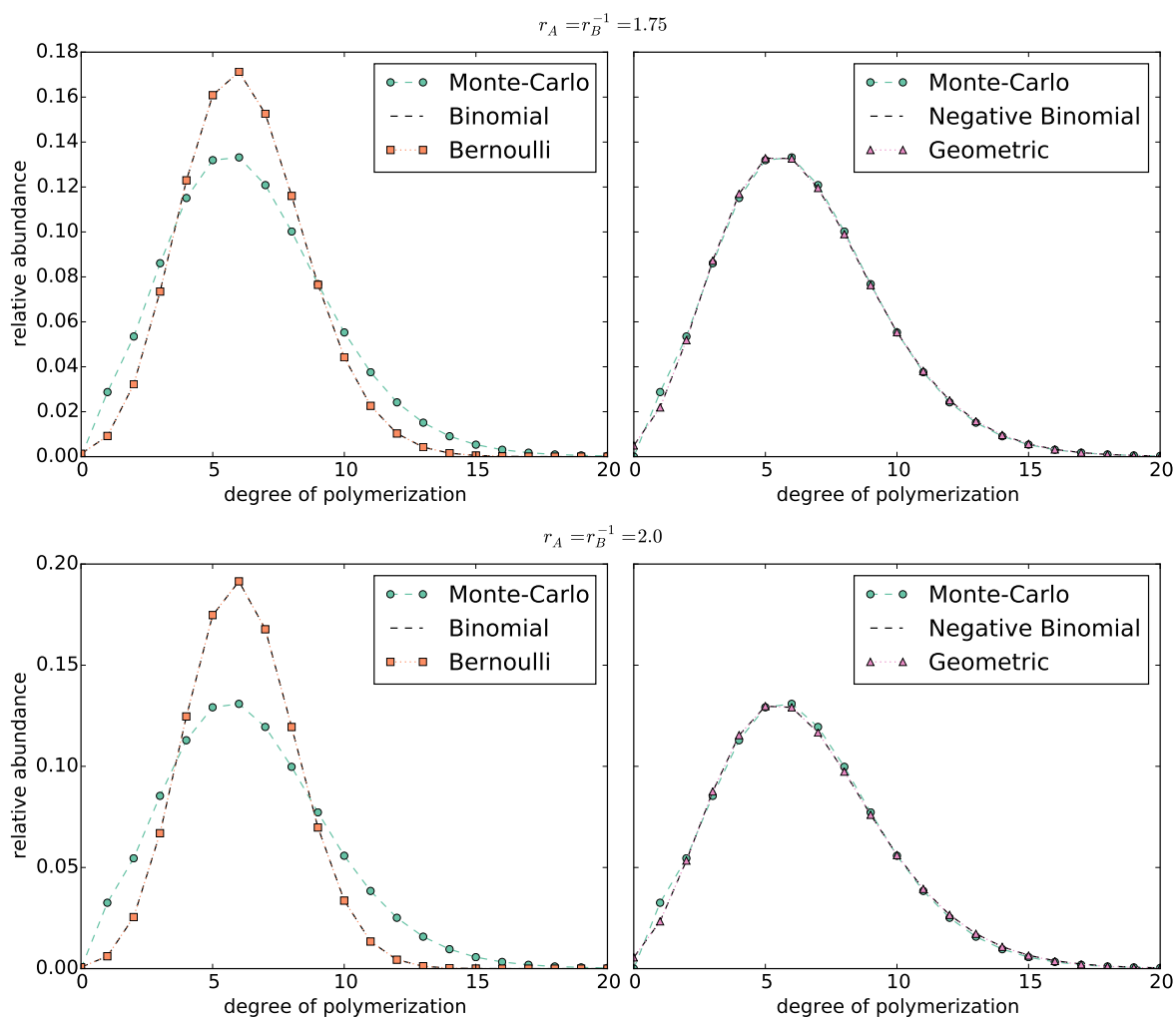


Figure S2. Distribution of chain lengths computed by the Monte-Carlo simulations and the Bernoulli (left) and Geometric models (right). Additionally, we plotted the binomial and negative binomial probability mass functions to show that the chain lengths computed by the models follow those distributions.

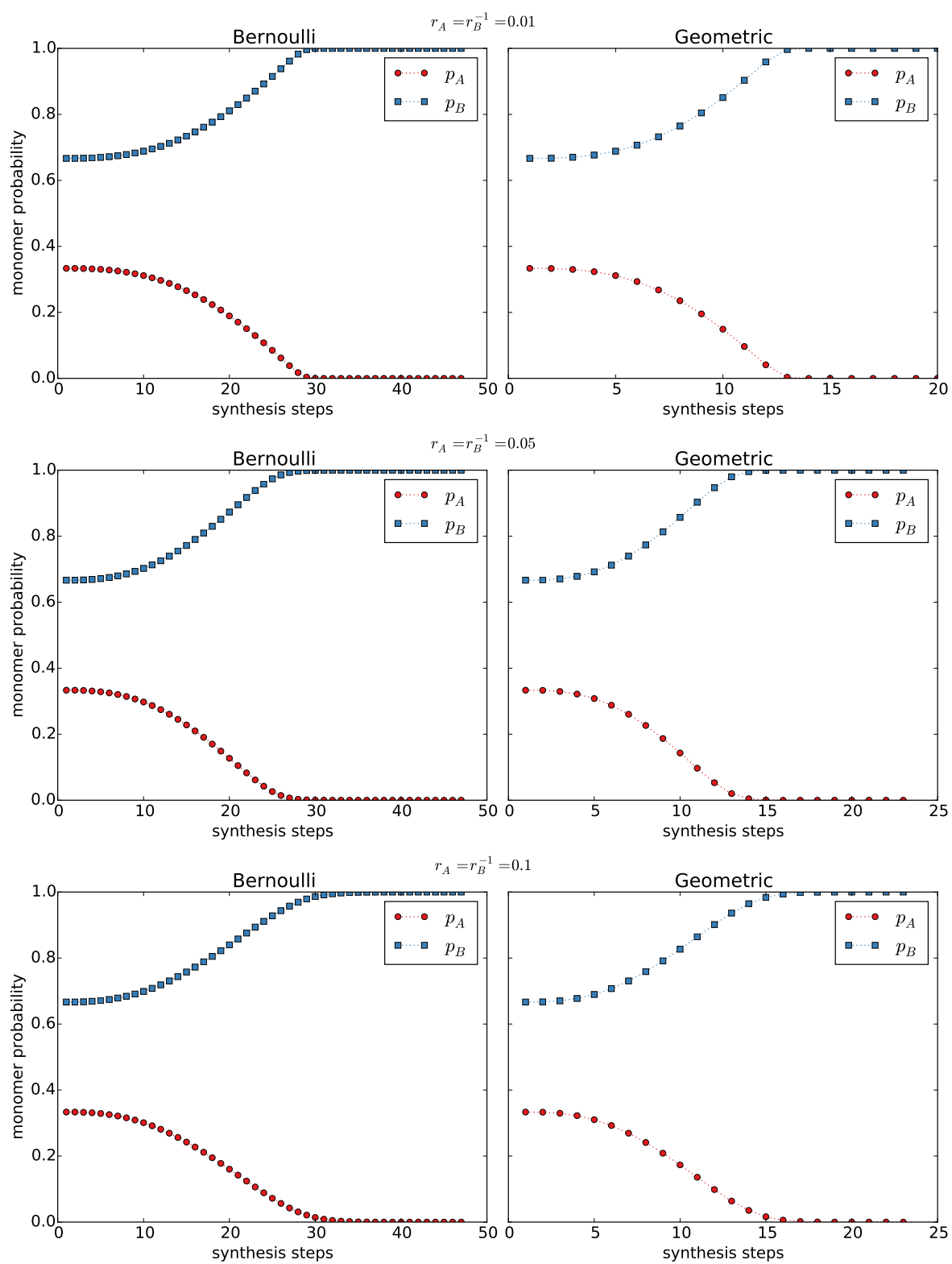


Figure S3. Cont.

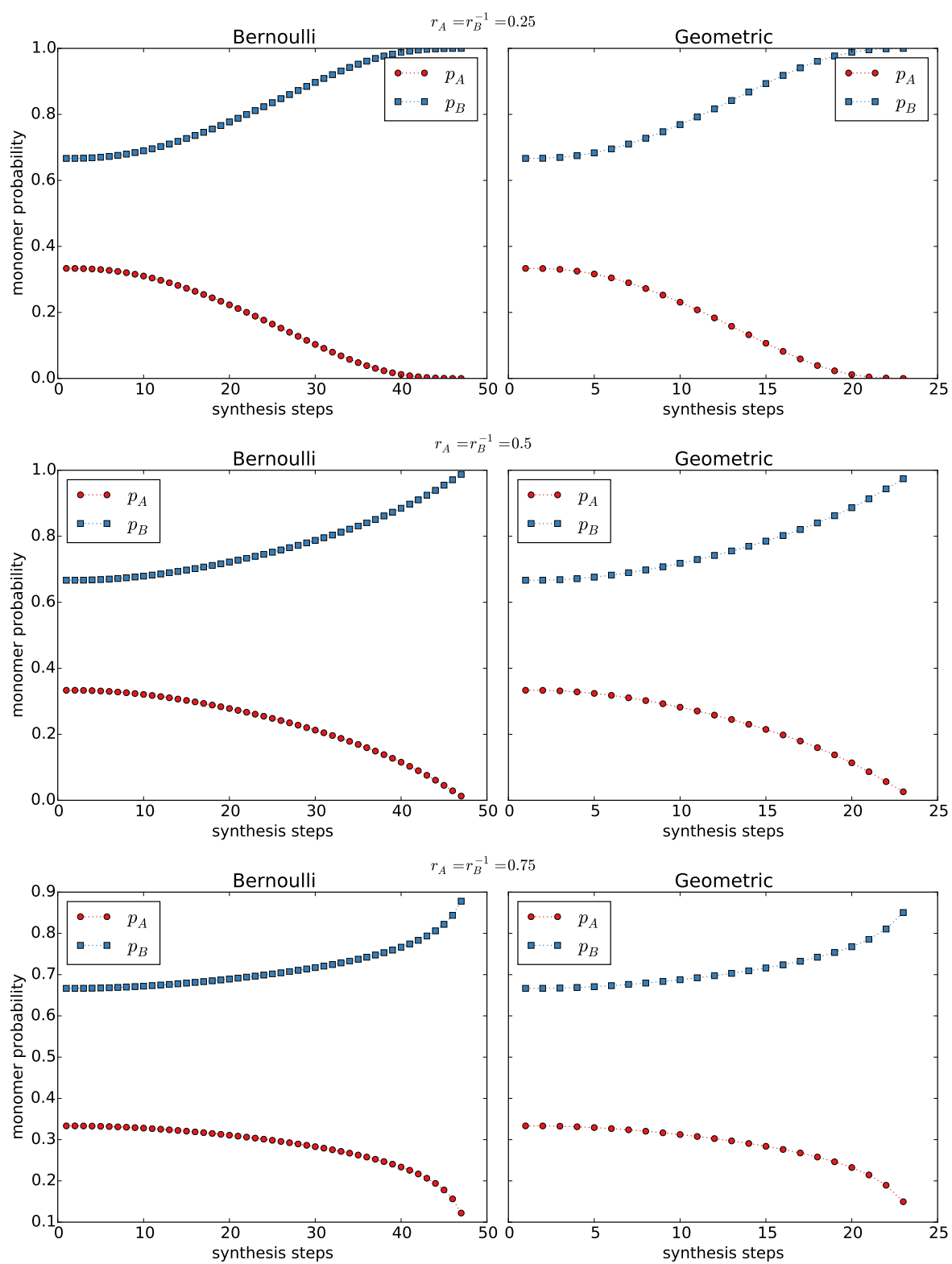


Figure S3. Cont.

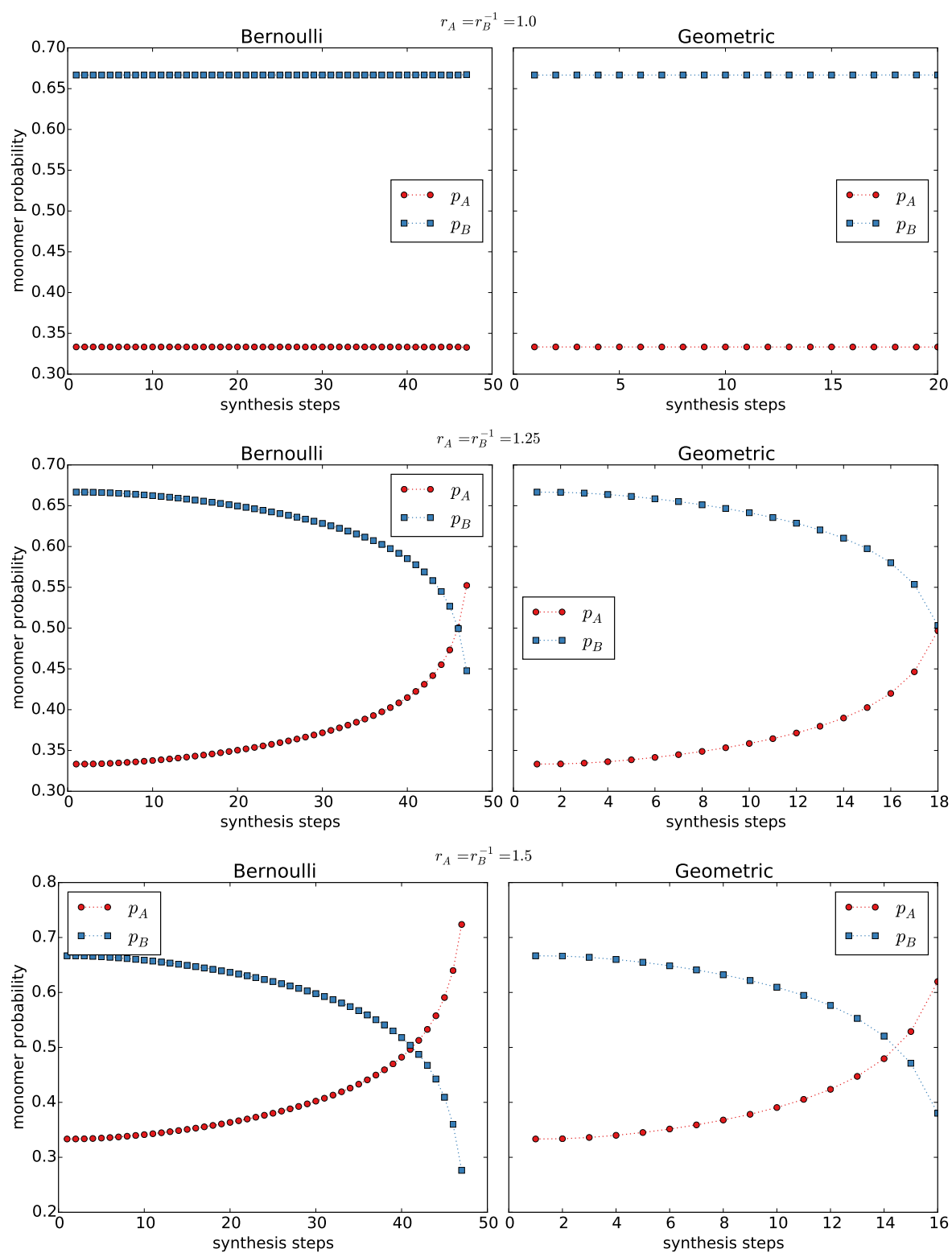


Figure S3. Cont.

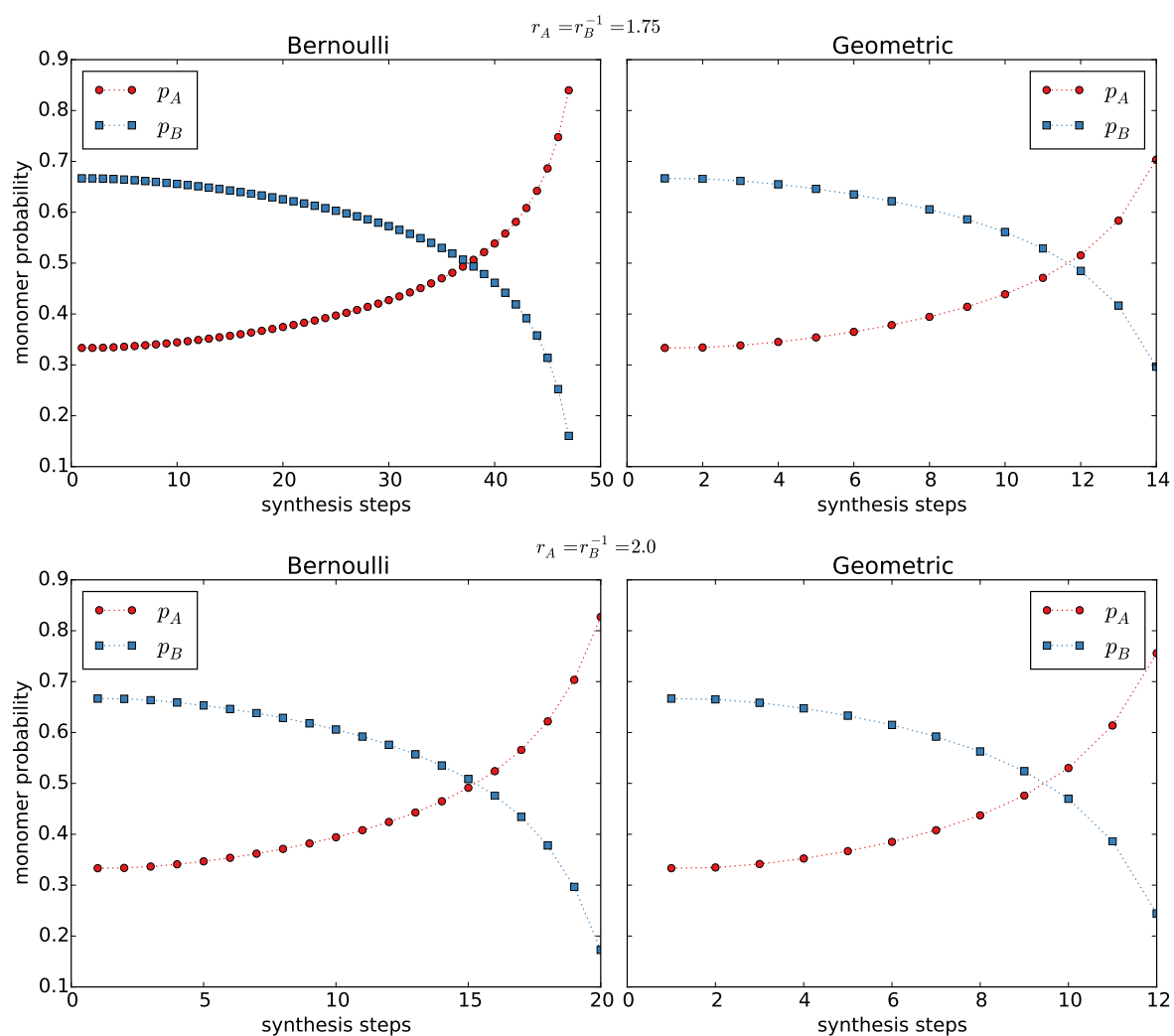


Figure S3. Monomer probabilities p_A and p_B for the Bernoulli (left) and Geometric (right) models calculated from the average concentrations.

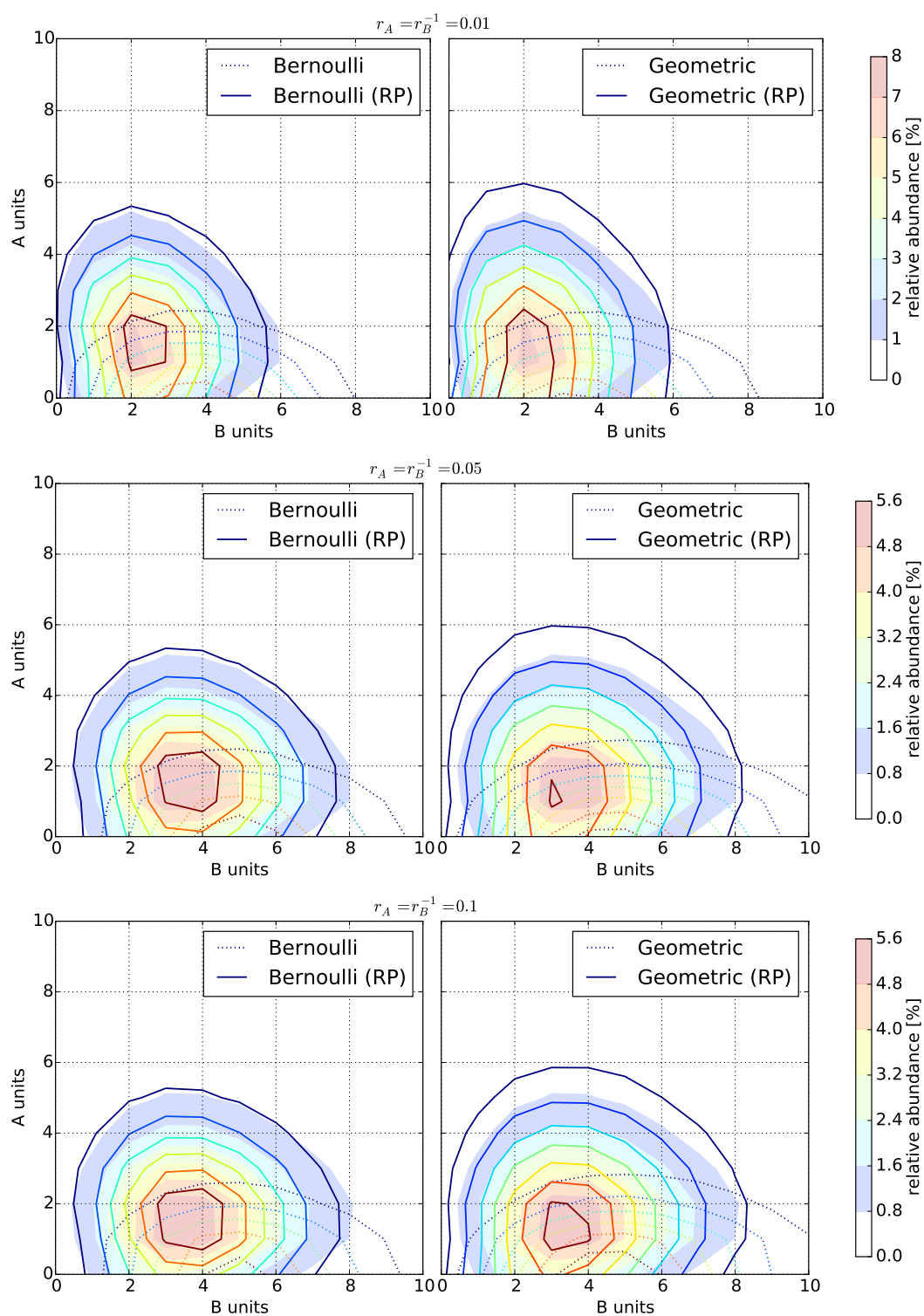


Figure S4. Cont.

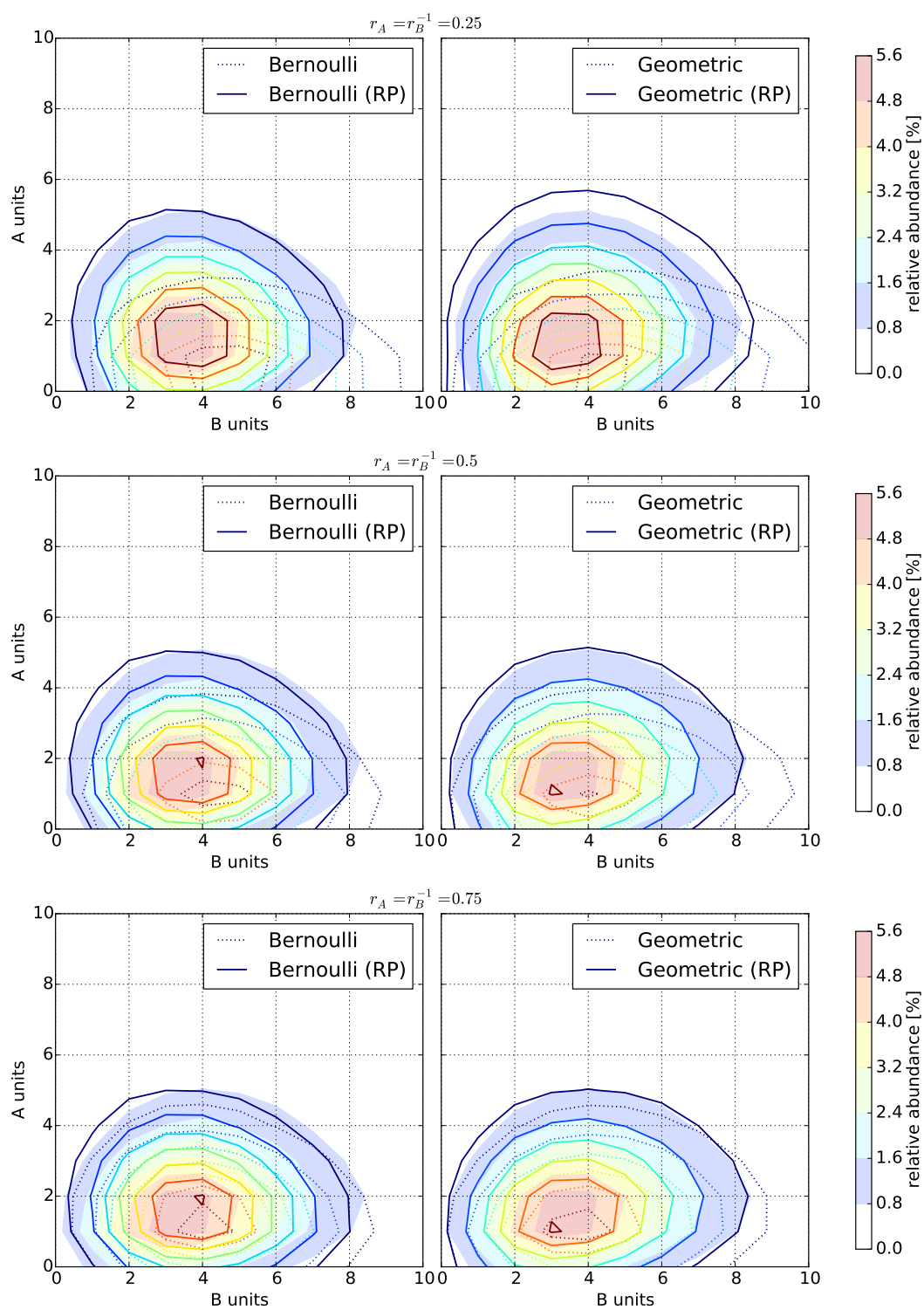


Figure S4. Cont.

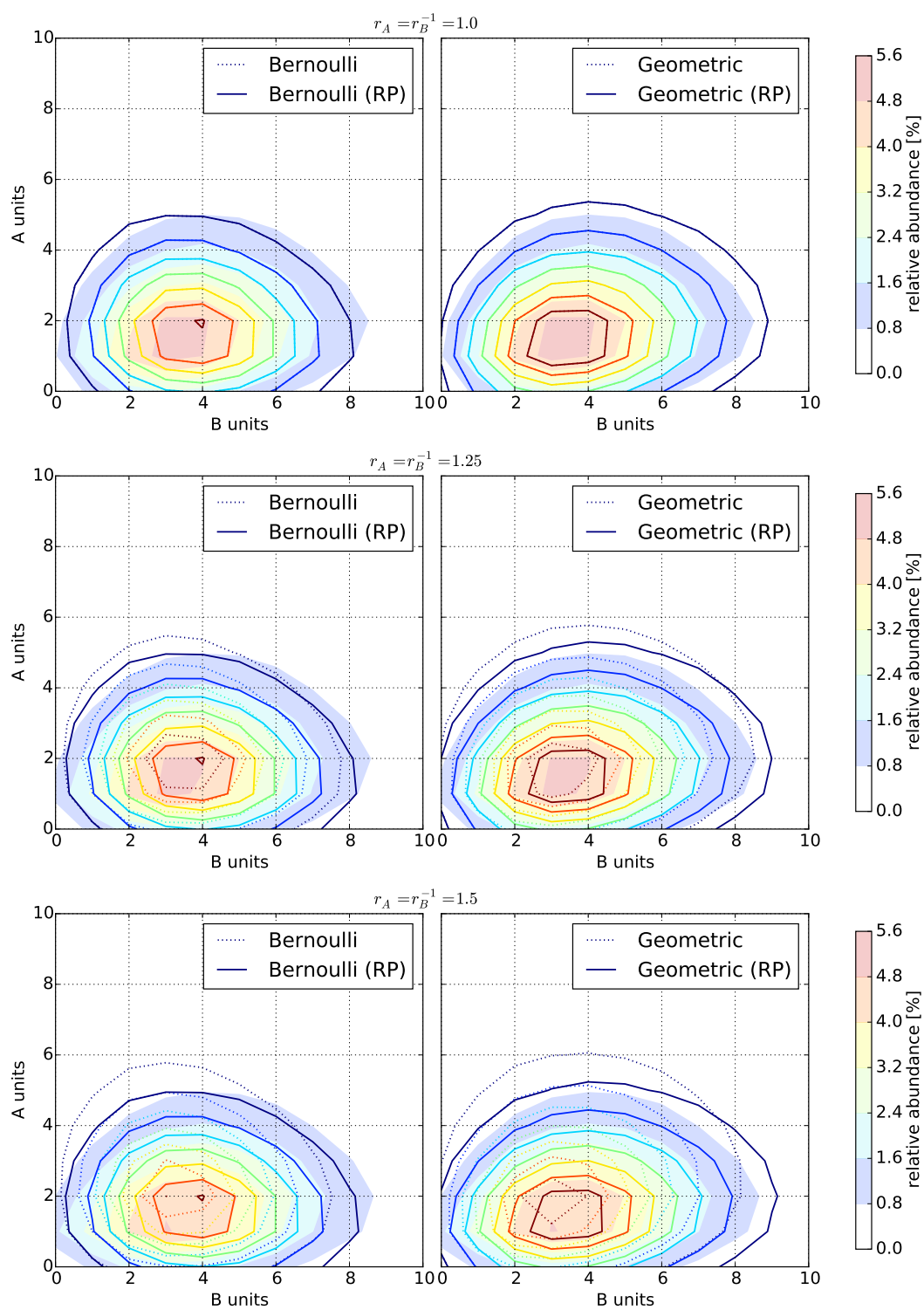


Figure S4. Cont.

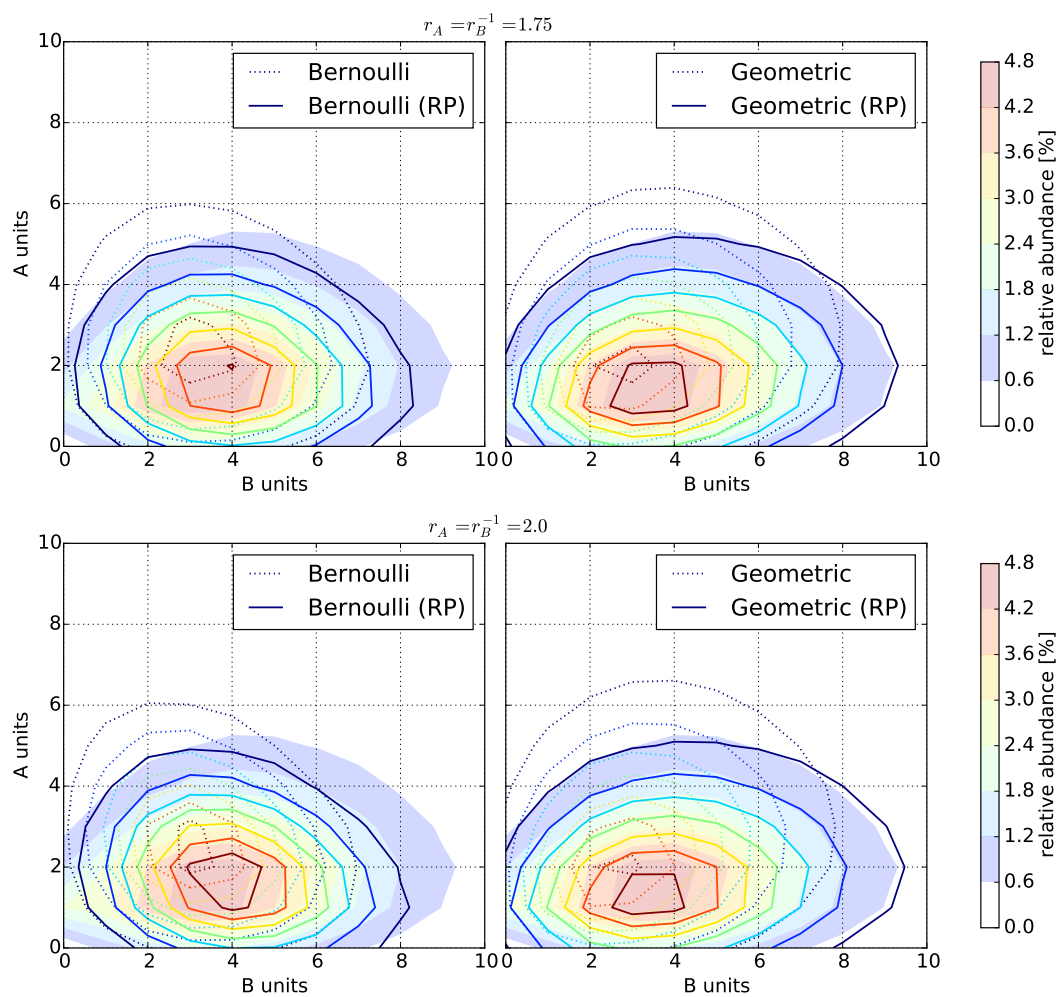


Figure S4. Copolymer fingerprints computed by the Monte-Carlo simulation (filled contours) compared to the fingerprints computed by the statistical models (solid and dashed contours). **Left:** Bernoulli model with and without reactivity parameters (RP); **Right:** Geometric model with and without reactivity parameters (RP).