

## **[P8] Self-consistent simulation method for explosive percolation on the Bethe lattice**

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Based on self-consistent equations of the order parameter  $P_\infty$  and the mean cluster size  $S$ , we develop a self-consistent simulation method for arbitrary percolation on the Bethe lattice. By applying the self-consistent simulation to well-known percolation models, random bond percolation, and bootstrap percolation, we obtain prototype functions for continuous and discontinuous phase transitions. By comparing key functions obtained from self-consistent simulations for explosive percolation models to the prototype functions, we show that the percolation transition of explosive percolation models on the Bethe lattice is continuous regardless of details of growth rules.