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Amanda Redlich* (aredlich@math.rutgers.edu). *Graph decomposition and parity.*

Motivated by a recent extension of the zero-one law, we study the distribution of disconnected subgraphs in the random graph modulo q . To do this, we define a “gluing” and “decomposition” rule for graphs, then determine which graphs are glueable and decomposable (there is a natural analogy here with the reconstruction conjecture). We fully characterize the distributions of two-component graphs in the random graph. We also give a sufficient condition for graphs with arbitrarily many components to be uniformly distributed. (Received September 26, 2012)