Graz University of Technology

Institut für Optimierung und Diskrete Mathematik

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The H-elimination random graph process

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Consider the random graph process which starts out from the complete graph on n vertices and in every step of the process an edge, selected uniformly at random from the set of edges which are contained in a copy of a fixed graph H, is removed. The process stops after no more copies of H are present. This process is called the H-elimination random graph process. In 1990 Bollobás and Erdős asked for the typical number of edges present in the graph created by this process when n is large. We answer this question in case H belongs to a special class of graphs, namely the strictly 2-balanced graphs.

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