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## A local limit theorem for the critical random graph

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## Abstract

We consider the limit distribution of the orders of the k largest components in the Erdös-Rényi random graph inside the ``critical window'' for arbitrary k. We prove a local limit theorem for this joint distribution and derive an exact expression for the joint probability density function.

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Pages: 122-131

Published on: February 19, 2009

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Electronic Communications in Probability. ISSN: 1083-589X