

PRAGUE DIMENSION OF RANDOM GRAPHS

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Zoom meeting ID: 822 0267 2454 Password: 121323

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Abstract: The Prague dimension of graphs was introduced by Nešetřil, Pultr and Rödl in the 1970s: as a combinatorial measure of complexity, it is closely related to clique edges coverings and partitions. Proving a conjecture of Füredi and Kantor, we show that the Prague dimension of the binomial random graph is typically of order $n/(\log n)$ for constant edge-probabilities. The main new proof ingredient is a Pippenger-Spencer type edge-coloring result for random hypergraphs with large uniformities, i.e., edges of size $O(\log n)$.