

ASYMPTOTIC PROPERTIES OF A RANDOM GRAPH WITH DUPLICATIONS

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Resumo/Abstract:

I will present a random graph model evolving in discrete time steps by duplicating and deleting the edges of randomly chosen vertices. In 2015 Ágnes Backhausz and Tamós F Móri [?] proved the existence of an a.s. asymptotic degree distribution, with stretched exponential decay; more precisely, the proportion of vertices of degree d tends to some positive number $c_d > 0$ almost surely as the number of steps goes to infinity, and $c_d \sim (e\pi)^{1/2} d^{1/4} e^{2\sqrt{d}}$ holds as $d \rightarrow \infty$.