

# Counting bounded degree spanning trees in random graphs

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In this talk we discuss the number of bounded degree spanning trees in sparse random graphs. Let  $p \geq \frac{f(n)}{n}$  where  $f(n)$  is some polylogarithmic function of  $n$ , and let  $G \sim G(n, p)$ . We show that for every  $\Delta = \omega\left(\frac{\ln(np)}{\ln \ln(np)}\right)$  the number of spanning trees in  $G$  with maximum degree at most  $\Delta$  is w.h.p. exponentially equal to the expected number of such trees.

Joint work with Dennis Clemens, Asaf Ferber, Michael Krivelevich, Anita Liebenau and Kerstin Weller.

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