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Ross K Berkowitz* (ross.berkowitz@yale.edu). *How many triangles are in a random graph and other local questions.*

What is the probability that an Erdős-Renyi random graph has exactly the average number of triangles? What if we ask about the average plus ten, or plus two standard deviations? There has been a tremendous amount of research into proving central limit theorems for such combinatorial random variables. We will talk about some analytic tools to determine when these results may be extended to local limit theorems. (Received February 12, 2018)