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Anant P Godbole* (godbolea@etsu.edu), ETSU Mathematics Department, Box 70663, Johnson City, TN 37614. *Poisson approximations in probabilistic combinatorics*. Preliminary report.

This poster will focus on many results, obtained over the last decade, which deal with the *number* of combinatorial objects of a certain kind, and not just their existence. Since the existence of the object is usually a “rare” event, the count of the object is heuristically likely to follow a Poisson distribution. Stein’s method for Poisson approximation is thus one of the tools employed, as are concentration inequalities and central limit theorems. (Received January 27, 2008)