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Asymptotic formulas for overpartitions with k -runs. Preliminary report.

Integer partitions without runs have recently been studied by Andrews from a combinatorial perspective, and also Holroyd, Liggett, and Romik, who described striking connections to probabilistic bootstrap percolation models. In this talk I will discuss recent work on overpartitions with runs, which are a close analogy. We find the asymptotic behavior of such overpartitions by using the Constant Term Method, transformations of theta functions, and the Saddle Point Method. (Received December 13, 2011)