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Partitions into primes in arithmetic progression

In this talk, we discuss the number of ways to write a given integer as a sum of primes in an arithmetic progression. While the study of asymptotics for the number of ordinary partitions goes back to Hardy and Ramanujan, partitions into primes were recently re-visited by Vaughan. As a special case, we obtain an improvement in Vaughan's asymptotic formula for the number of partitions into primes.