

## Some recent results on Vinogradov's Theorem

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**Abstract:** Vinogradov's Theorem that all large enough odd integers are the sum of three primes remains an active area of investigation. We will discuss a recent refinement in the setting of the Gaussian Integers. And, as well, a refinement in the integers: If  $P$  is a subset of the primes of density strictly larger than  $\frac{1}{2}$ , then every large enough even integer is the sum of four primes from  $P$ . Joint work with Christina Giannitsi, Hamed Mousavi, Yaghoub Rahimi, and Manasa Vempati.