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Joshua Stucky* (jstucky95@ksu.edu). *Gaussian Primes in Narrow Sectors.*

Consider a sector in the complex plane which is the region between two concentric circles centered at the origin and which is cut by two rays emanating from the origin. Such a sector is "narrow" if the distance between the circles or the angle between the rays is small. Similar to how one investigates the distribution of rational primes in short intervals, we can investigate the distribution of prime ideals in $Z[i]$ in narrow sectors. In this talk, I will discuss some recent progress on this problem as well as some related open problems. (Received January 21, 2021)