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*The Cohen-Lenstra heuristics and roots of unity*

The Cohen-Lenstra heuristics are a collection of conjectures on the distribution of the Sylow  $p$ -subgroups of class groups of number fields. While these conjectures are usually very well-supported by numerical data, there are several primes at which they do not appear to hold. In this talk, we will discuss the case of  $p = 2$  for cyclic cubic fields, and we propose a correction term that fits the data more closely.