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On the discovery of the 45th and 46th known Mersenne primes,
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Abstract

The Great Internet Mersenne Prime Search (GIMPS) has been coordinating a rigorous search for new Mersenne Prime discoveries. This paper provides a quick overview of Mersenne prime history, discusses the methods used by GIMPS to discover new primes, and presents the latest search results including two new Mersenne primes, $M_{43112609}$ and $M_{37156667}$.