

# Re: Prime numbers

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- *From:* [luiroto@xxxxxxxx](mailto:luiroto@xxxxxxxx)
  - *Date:* 5 Jul 2006 18:33:06 -0700
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luiroto@xxxxxxxx wrote:

I always tell my students to look for the pattern. I believe whole heartedly that theres a definite ordering to the prime numbers. >  
Derek

Ordering of the prime numbers?

The prime numbers are produced by the algorithm of the Eratosthenes Sieve. That algorithm is equivalent to a Pseudorandom Generator. It is a Chaos generator. Each pass for deleting the multiples of a given prime produces new primes with different gaps that have a devastating effect in the distant numbers. Example: Between 1322 and 1422 there are only 7 primes while between 1423 and 1523 there are 18. Moreover the quantity of primes by equal intervals follows a statistical distribution known as the Gauss Distribution.

Pseudorandom generator.-

"Sequences generated in a deterministic way, as multiplying 10-digit numbers and extracting the ten middle digits, are called pseudo-random sequences."

D.

Knuth. Stanford University

Chaos.-

"Non-periodicity, divergency and mixing are the caharacteritic of Chaos"

J.M.Thomson University

College of London

"Une des hypotheses les plus interesantes auxquelles conduisent les etudes statistiques peut etre appelee l' hypothese du hasard qui conduisse a considerer la distribution des nombres premiers comme une

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distribution

Binomial que a l' infinie se confond avec une Laplce–Gauss."

Emil Borel. Membre de l'

Institute de France

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