Pseudo-random numbers: a line at a time

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12:55pm Tuesday, 11 October 2005

LCB 215

Random numbers have an amazing range of applications in both theory and practice.

Approximately-random numbers generated on a computer are called pseudo-random.

This talk discusses how one generates and tests such numbers, and shows how this study is related to important mathematics and statistics — the Central-Limit Theorem and the $\chi^2$ measure — that have broad applications in many fields.

Come and find out what the Birthday Paradox, Diehard batteries, gorillas, Euclid, French soldiers, a Persian mathematician, Prussian cavalry, and Queen Mary have to do with random numbers.