Colloquium

Wednesday November 1, 2006

12pm Room 08-2130

Counting balanced Boolean functions

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Boolean functions with special properties are needed for many cryptographic algorithms. One of the most useful properties such a function can have is balance (the function takes on equal numbers of 0s and 1s). Even basic counting questions about these balanced Boolean functions are unsolved. The talk will discuss the problem of counting the number of balanced Boolean functions of degree no more than k in n variables. Some conjectures will be stated, along with supporting evidence.

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School of Mathematical Sciences Colloquium Series