



istanbul matematiksel bilimler merkezi
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NOISE STABILITY OF BOOLEAN FUNCTIONS

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Abstract

Suppose that in an election between two parties, each voter's vote is corrupted with probability ϵ . The chance that this affects the outcome of the election depends on what voting rule is used. We will show that under some reasonable assumptions, the voting rule which is "stablest" to noise in the votes is Majority. We will also discuss connections to theoretical computer science and to geometry of Gaussian space.

Date : Tuesday, January 3, 2012

Time: 14:00

Place: IMBM Seminar Room, Boğaziçi University