

abstract

COMPUTER SCIENCE/DISCRETE MATH II

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

Let $\|\cdot\|$ be any norm on \mathbb{R}^d . We consider the question of estimating the minimum over all possible sign sequences $e_i = \pm 1$ of

$$\|e_1 x_1 + e_2 x_2 + \dots + e_n x_n\|,$$

where the x_i are independent Gaussian vectors on \mathbb{R}^d (here d is viewed as fixed and n as tending to infinity). The main result will be that in most cases this minimum will tend to be exponentially small in n , and that its distribution can be determined precisely.