THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PROBABILITY

The singularity of combinatorial matrices

By

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Abstract

Let Q_n be a random n by n matrix with entries in {0,1} whose rows are independent vectors of exactly n/2 zero components. We show that the probability that Q_n is singular is exponentially small, which is optimal up to a multiplicative factor.

Date : 25 November 2022 (Friday)

Time : 2:00pm

Zoom Meeting : https://hkust.zoom.us/j/97223013392 (Passcode: 673644)

All are Welcome!