

# Boğaziçi MATH COLLOQUIUM

## **Orthogonal Arrays; Enumeration and Applications**

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**Abstract:** Orthogonal arrays are used in the design of experiments in Statistics, in Computer Science as well as in many fields of Combinatorics.

In this talk, I will first give an application of orthogonal arrays to construct D-optimal discrete choice experiments. Later, I will address the existence problem of orthogonal arrays, and I will describe new algorithms to enumerate all orthogonal arrays with given parameters.

**Date :** Wednesday, March 28, 2018

**Time:** 13:30

**Place:** TB 130, Boğaziçi University