

Boğaziçi MATH COLLOQUIUM

Combinatorial Block Designs and Resolvable Graph Designs

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Abstract:

There are two famous problems that played an important role in the beginning of Combinatorial Design Theory. One is known as "36 officers' problem" asked by Euler in 1782 and the other is "Kirkman's schoolgirl problem" asked by T. P. Kirkman in 1850. We will start our talk by presenting these two famous problems that pioneered the research on orthogonal Latin squares, Steiner and Kirkman triple systems, and then block designs. Then we will continue our talk by discussing recent developments in certain areas of design theory, especially the developments on resolvable graph designs.

Date : Wednesday, April 17, 2024

Time: 13:30

Place: TB 130, Boğaziçi University