

Public Lecture, IPM-Isfahan

Rebecca J. Stones

Nankai University, Tianjin, China

Title:

Totally symmetric and trivially autotopic partial Latin squares

Abstract:

A partial Latin square is a square matrix which might have empty cells and without repeated symbols in each row or column. If the partial Latin square is stabilized under some permutations of the rows, columns, and symbols, we call that an autotopism. Further symmetries can be formed by permuting the coordinates of (row, column, symbol) triples, and the six resulting squares are its conjugates [e.g. swapping "row" with "column" is the matrix transpose]. I'll talk about in-progress work on constructing Latin squares of various weights (number of filled cells) with no non-trivial autotopisms, but all six conjugates are equal.

This is joint work with Raúl Falcón.

May 11, 2017 (21 Ordibehsht 1396) at 11:00-12:00.

IPM-Isfahan, Isfahan, Iran

