Algebra, Combinatorics and Number Theory Seminar

Date. Monday, September 27, 2021 - 5pm (UTC+1) [1]

Speaker. Martino Garonzi - Universidade de Brasília - UnB - DF, Brasil

Title. Kirkman triple systems whose orders fill a congruence class

Abstract.

A Steiner triple system STS(v) is a set of triples of $\{1, 2, ..., v\}$ such that every pair of points belongs to exactly one of these triples. A Kirkman triple system KTS(v) is a STS(v) whose triples can be partitioned into parallel classes, each of which is a partition of the point set. A KTS(v) is called 3-pyramidal if it admits a group of automorphisms that fixes 3 points and acts regularly on the other points. I will present recent results we obtained about 3-pyramidal Kirkman triple systems. This is joint work with S. Bonvicini, M. Buratti, G. Rinaldi and T. Traetta.

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[1] https://videoconf-colibri.zoom.us/j/85917155304?pwd=ZUlYUGJRcTJzTOVjSHF5N2hNdTJQZz09