

On Combinatorics of Rectangles

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23. Juni 2015

Abstract

Combinatorial aspects of rectangles have given rise to some challenging problems. In the first part of the seminar, I shall present the graph theoretic aspects of intersection of rectangles (squares), formally known as “Boxicity-2 (Cubicity-2)” graphs. In this context, I shall introduce our work on some subclasses of Cubicity-2 graphs. In the last part, I shall survey recent results on some optimization problems on Boxicity-2 graphs.