

Similarity of large graphs and convergence of graph sequences

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Abstract

In the lecture I give a short survey on some joint work with Christian Borgs, Jennifer Chayes, Laszlo Lovasz, and Kati Vesztergombi. We define the distance between two graphs that reflects their similarity, the closeness of both local and global properties. We also define several natural notions of convergence of sequences of graphs. We show, that these notions are equivalent.

I will mention some applications and open problems.