

Problems on convergent sequences of dense graphs

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There are different motivations why and how to study large graphs. This explains why the convergence of dense graph sequences can be and is defined using different notions, like subgraph-densities, Szemerédi partitions and cut-distance. Each approach captures different aspects; different properties of large graphs. In the whole theory it is important, that these different versions of definitions turned out to be equivalent. This led to questions about the connections, relations between these equivalent properties of graph sequences. I will discuss some of these and some more recent open problems.