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Forcing multidimensional graphons

Recently, Lovasz and Szegedy have initiated investigation of limits of convergent sequences of dense graphs which are determined by finitely many subgraph densities, called *finitely forcible graphons*. They have also introduced a notion of a topological space of typical points of a graphon.

We will present examples of finitely forcible graphons for which the corresponding space has arbitrary finite dimension. For all previously known examples this dimension was equal to 0 or 1. We will also show that the infinite lexicographic power of any prime graph is finitely forcible, partially answering a question of Lovasz and Szegedy.