

Flip processes dynamics on graphs through the lens of graph limits

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Abstract

The theory of dense graph limits was initiated by Borgs, Chayes, Lovász, Sós, Szegedy, and Vesztergombi around 2004. Since then it has led to many breakthroughs as well as more conceptual views on problems in extremal graph theory and random graphs.

I will explain key features of the theory. Then I will mention a particular application to a certain family of graph dynamics, which we call “flip processes”.

References

- Garbe, Šileikis, & Skerman: From flip processes to dynamical systems on graphons, *Annales de l'Institut Henri Poincaré (B) Probabilités et Statistiques*, 2023+
- Araújo, Hladký, Hng, & Šileikis: Prominent examples of flip processes, *Random Structures Algorithms*, 2023+.