▶ JAMES CUMMINGS, *Infinitary methods in finite combinatorics.*

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I will give an overview of some recent developments in the application of infinitary methods in finite combinatorics, notably the theories of *graph limits* [1] and *flag algebras* [2]. I will discuss some recent joint work with Michael Young and Ashwini Aroskar in this general area.

[1] L. LOVÁSZ AND B. SZEGEDY, *Limits of dense graph sequences*, **Journal of Combinatorial Theory (Series B)**, vol. 96 (2006), pp. 933–957.

[2] A. RAZBOROV, *Flag algebras*, **Journal of Symbolic Logic**, vol. 72 (2007), no. 4, pp. 1239–1282.