

1106-03-1025 **Cameron E. Freer*** (freer@mit.edu). *Infinitary model theory in the study of graphons.*

Graphons provide a notion of limit for sequences of dense graphs, and their study allows the application of analytic tools to classical combinatorial problems. To each graphon, a countable random graph is associated via a canonical sampling procedure. I will discuss various uses of infinitary model theory in examining the connection between graphons and the countable structures that arise in this way. (Received September 09, 2014)