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An application of infinitely generic structures to von Neumann algebras

Inspired by Cohen's advent of forcing in set theory, Robinson defined two kinds of model-theoretic forcing, so-called finite forcing and infinite forcing. While intensely studied in the 1970s, the study of the structures arising from these forcing constructions has since became largely ignored. In this talk, I will talk about a recent application of infinite forcing (adapted to the setting of continuous model theory), making progress on a conjecture of Popa in the field of von Neumann algebras. Time permitting, I will talk about extensions of this result due to Chifan, Drimbe, and Ioana and also due to myself with Jekel, Kunnawalkam Elayavalli, and Pi.