

October 10, 2019 from **4:30 PM** at [Refectory of Augustinian Abbey at Mendel Square - Mendel Museum](#)

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Enumeration Operators, Probability, Type Theory

Abstract:

For a long time it has been known that enumeration operators on the powerset of the integers form a model of the λ -calculus. More recently, the speaker realized that well-known methods allow for the adjunction of random variables to the model. Also other well-known ideas can extend the basic model into a model for Martin-Löf type theory. Some recent work with a group of collaborators combines the two approaches by invoking Boolean-valued models. The talk will address the question of how to give this natural modeling interesting applications.