Logic Seminar

*Henkin models in the continuum*

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**Abstract:** We describe Shelah’s construction of atomic models in the continuum, as reformulated with Laskowski as a Henkin construction [2]. Then we discuss briefly the connection with the Ackerman-Freer-Patel [1] proof that if $M$ is a countable structure for a relational language $L$ with trivial definable closure then there is an invariant probability measures on the countable $L$-structures that concentrates on $M$. We explain while the sufficient conditions for the model in the continuum include those with trivial definable closure, our theorem applies more generally to obtaining a atomic model in the continuum of the first order theory of a countable atomic extendible structure admitting a formula-based geometry.


Tuesday, March 10 at 3:00 PM in 427 SEO