

Set Theory Seminar

Fine structure, part I

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Abstract: Jensen invented the fine structure theory in order to make a detailed analysis of Godel's constructible universe, L . Today the fine structure theory is fundamental to an understanding of inner models for large cardinals. We aim to develop the basic theory for L and use it to prove some of the earliest applications, including that \square_κ holds in L for all cardinals κ , and Jensen's Covering Theorem: If $O^\#$ does not exist, then every uncountable set of ordinals is contained in a constructible set of the same size.

Monday, February 8 at 3:00 PM in SEO 427