

LECTURE SERIES

CMSA/Tsinghua Mathematical Science Literature Lecture

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9:30-11:00 am ET

Large cardinals and small sets: The AD^+ Duality Program



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Abstract: The determinacy axiom, AD , was introduced by Mycielski and Steinhaus over 60 years ago as an alternative to the Axiom of Choice for the study of arbitrary sets of real numbers. The modern view is that determinacy axioms concern generalizations of the borel sets, and deep connections with large cardinal axioms have emerged.

The study of determinacy axioms has led to a specific technical refinement of AD , this is the axiom AD^+ . The further connections with large axioms have in turn implicitly led to a duality program, this is the AD^+ Duality Program.

The main open problems here are intertwined with those of the Inner Model Program, which is the central program in the study of large cardinal axioms.

This has now all been distilled into a series of specific conjectures.

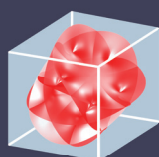
Room G10, CMSA, 20 Garden St., Cambridge MA &
Via Zoom Webinar



In-person Registration



Zoom Webinar Registration



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