

HARVARD UNIVERSITY

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HARVARD LOGIC COLLOQUIUM

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Cantor's Grundlagen

DATE: Thursday, March 22

TIME: 4:00–5:00 pm

LOCATION: Logic Center, Room 420, 2 Arrow Street

Cantor's early (1883) *Grundlagen einer allgemeinen Mannigfaltigkeitslehre* is badly organized and has important errors and omissions. Nevertheless it is rich in content, and its concepts are in some ways superior to Cantor's later ones.

I will mainly concentrate on a few aspects of *Grundlagen*: (1) what might be called Cantor's quasi-axiomatic, iterative account of ordinal numbers; (2) the role that something like a Replacement Axiom plays in this account; (3) the relation between the *Grundlagen* notion of absolute infinity and Cantor's later notion of inconsistent multiplicities.