



**KURT GÖDEL RESEARCH CENTER FOR
MATHEMATICAL LOGIC**

UNIVERSITÄT WIEN

1090 WIEN, WÄHRINGER STRASSE 25

O.UNIV.-PROF. DR. SY-DAVID FRIEDMAN



INVITATION

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MAXIMAL DISCRETE SETS WITH LARGE CONTINUUM

Abstract:

In a previous talk at the KGRC, I showed how to construct definable maximal discrete sets in forcing extensions of L , in particular in the Sacks and Miller extension. In particular, the existence of such sets is consistent with $V \neq L$.

In this talk I shall show the stronger result that the existence of definable discrete sets is consistent with large continuum. In the process, I show an interesting generalization of Galvin's theorem. In particular, this applies to the example of maximal orthogonal families of measures (mofs).

One might hope for a simpler way of constructing a mof in a model with large continuum: to find an indestructible such family in L . While such an approach is possible e.g. for maximal cofinitary groups, this is impossible for mofs.

THURSDAY, JANUARY 7, 2016

Tea at 3:30pm in the KGRC meeting room (room 104)

Talk at 4:00pm in the KGRC lecture room (room 101)

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