



**Speaker:** Martin Bays  
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Thursday, November 17, 2011  
2:00 PM  
258 Hurley Hall

**Title:** Some definability results in abstract Kummer theory, II

**Abstract:**

This is joint work with Misha Gavrilovich and Martin Hils.

A theory is almost uncountably categorical if there is a finite set of strongly minimal sets such that every non-algebraic type is non-orthogonal to one of them. Any finite Morley rank group is almost uncountably categorical.

It is a result of Hasson-Hrushovski that a strongly minimal theory has the Definable Multiplicity Property (DMP) iff the theory of a generic automorphism is axiomatisable. We note that this generalises to the case of almost uncountably categorical theories; we deduce that many interesting finite Morley rank groups have the DMP, and hence that the definability results discussed on Thursday apply to them.

Time permitting, I will also discuss how our results fit into Zilber's programme on categoricity of structures related to exponentiation, and will present some related open questions.