

**UIC Model Theory Seminar, October 24, 2006**  
**The Morley rank modulo a predicate of the complex field  
with a predicate for the integers**

Kathryn Vozoris  
University of Illinois at Chicago

I will discuss the notion of Morley rank modulo a predicate (PMR) recently introduced by Jacob Heidenreich. This is a generalization of Morley rank designed for structures with a predicate, where the underlying structure without the predicate is totally transcendental. The aim of PMR is to measure the dimension of a structure without taking into account the definable sets generated by the predicate. I will discuss the proof that the PMR of the complex field with a predicate for the integers is larger than every natural number.