ANALYSIS SEMINAR

APPLICATIONS OF RAMSEY'S THEOREM TO BANACH SPACES

THOMAS SCHLUMPRECHT

Texas A&M University, College Station

Wednesday, March 23, 2005, in Room 331 at 3:00 pm

Abstract: *Roughly speaking Ramsey's theorem states that if you color all infinite subsequences of the natural numbers $\mathbb{N}$ by finitely many colors you can pass to some subsequence L of $\mathbb{N}$ so that all subsequences of L have the same color. We will give an overview of the applications of that theorem to the theory of classifications of Banach spaces and concentrate on a recent result by E.Odell and the speaker which led to the solutions of several problems in the theory of Banach spaces.*