Su Gao, Steve Jackson and Bunyamin Sari\* (bunyamin@unt.edu), Department of Mathematics, University of North Texas, P.O. Box 311430, Denton, TX 76203-1430. On the complexity of uniform homeomorphism of Banach spaces. Preliminary report.

The talk concerns with the question of determining the complexity of the relation of uniform homeomorphism between Banach spaces. Recently, Ferenczi, Louveau and Rosendal have shown among other things that the relations of isomorphism and Lipschitz equivalence on separable Banach spaces are analytic complete. It is open whether the same holds for the uniform homeomorphism relation on Banach spaces. We will discuss this problem and also will discuss the complexity of other equivalence relations closely related to uniform homeomorphism. (Received September 19, 2007)