

## DEFINABILITY OF TYPES OVER BANACH SPACES

JOSÉ IOVINO

We study the concept of type definability (a standard concept from model theory) in the context of Banach space geometry. Then we state a result which shows that there is a tight connection between type definability and asymptotic structure. Informally, the result states that in an asymptotic sense, a basic sequence  $(x_n)$  in a Banach space  $X$  generates types which are definable if and only if  $(x_n)$  generates almost isometric copies of  $\ell_p$  or  $c_0$  inside  $X$ .

DEPARTMENT OF MATHEMATICS, THE UNIVERSITY OF TEXAS AT SAN ANTONIO, SAN ANTONIO, TX 78249-0664, USA

*E-mail address:* `iovino@math.utsa.edu`