

EMBEDDING METRIC SPACES INTO REFLEXIVE SPACES

NIGEL J. KALTON

UNIV. MISSOURI, COLUMBIA (U.S.A.)

ABSTRACT. We discuss the solution of an old problem in the nonlinear theory of Banach spaces, showing that there is no uniform (or coarse) embedding of c_0 into a reflexive Banach space.

We also discuss the same problem for other separable Banach spaces (and their respective unit balls) and outlines connections of these problems with other areas of mathematics, such as geometric group theory.