THE FIXED POINT PROPERTY FOR SUBSETS OF SOME CLASSICAL BANACH SPACES

This presentation is based on a paper with the same title of professors P.N. Dowling, C.J. Lennard and B. Turett. We will discuss about the notion of asymptotically isometric l_1-basis in a Banach space X and the way it is related with the fixed point property. The main theorem will be that if a closed bounded convex subset K of a Banach space contains such a copy of l_1, then it also contains a non-empty closed convex subset C which fails the fixed point property for affine mappings.