

On isometry groups on the space of converging sequences

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The space c_0 is a hyperplane of, and therefore is complemented into, the space c of convergent sequences. We shall explain that in some sense related to compatibility with isometry groups, the space c_0 is badly complemented into c . Time allowing, we shall relate this to a theory of bounded actions of groups on exact sequences of Banach spaces, and explain how the example of c_0 is a counterexample to a result on exact sequences of reflexive spaces. Based on works of Antunes-Ferenczi-Grivaux-Rosendal and of Castillo-Ferenczi.