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On topological groups with an approximate fixed point property

A topological group G has the Approximate Fixed Point (AFP) property on a bounded convex subset C of a locally convex space if every continuous affine action of G on C admits a net (x_i) , $x_i \in C$, such that $x_i - gx_i \rightarrow 0$ for all $g \in G$. In this work, we study the relationship between this property and amenability. This is a joint work with Cleon Barroso, and Vladimir Pestov.