## NUCLEAR GROUPS

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ABSTRACT. The class of nuclear groups was formally introduced by Banaszczyk. A source for inspiration was a previous work where he studied the behaviour of closed subgroups and quotients by closed subgroups of nuclear vector spaces. Earlier he had studied similar questions for Banach spaces, and he was aware that, from some point of view, nuclear spaces -rather than Banach spaces- are natural generalization of finite dimensional vector spaces. So he projected to find a class of topological groups embracing nuclear spaces and locally compact abelian groups (as natural generalizations of finite dimensional vector spaces). This was the origin of the class of nuclear groups: the definition of the latter in [?] is very technical, as could be expected from its virtue of joining together objects of such different classes. I will provide some interesting facts about the class of nuclear groups.