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The discrete Heisenberg group $C^*$-algebra as an extension. (English) Zbl 1091.46034

Summary: It is shown that the $C^*$-algebra of the discrete Heisenberg group is an extension of a generalized, approximately subhomogeneous (ASH) algebra by the $C^*$-algebra of continuous functions on the two-torus, and the $C^*$-algebras of the generalized discrete Heisenberg groups are also extensions of generalized ASH-algebras by the $C^*$-algebras of continuous functions on the even tori. We also give an application of this result.

MSC:
46L05 General theory of $C^*$-algebras
46L55 Noncommutative dynamical systems
22D25 $C^*$-algebras and $W^*$-algebras in relation to group representations

Keywords:
ASH algebra; discrete Heisenberg group