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Michael V. Pimsner* (mpimsner@math.upenn.edu), University of Pennsylvania, School of Arts and Sciences, Dept. of Math., DRL 209 South 33rd Street, Philadelphia, PA 19104-6395. *Graded Groups in K-theory*.

We introduce the notion of graded groups, their actions on C^* -algebras and their corresponding restricted crossed products. This includes as a particular case crossed products with 2-cocycles. The reason for doing this is to be able to use equivariant KK-theory for the computation of the K-groups of these algebras, in the same way as for ordinary crossed products. This is useful even if the algebras we are interested in are not graded. (Received August 12, 2006)