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Jonathan Henry Brown* (jbrown@maths.otago.ac.nz). *Decomposing the C^* -algebras of groupoid extensions.*

Groupoids are generalizations of groups that are useful in modeling (among other things) the time evolution of a dynamical system. Furthermore, many interesting examples of C^* -algebras can be constructed from groupoids and thus the study of groupoid C^* -algebras illuminates the study of a large class of C^* -algebras. In joint work with Astrid an Huef, we decompose the full and reduced C^* -algebras of an extension of a groupoid by the circle into a direct sum of twisted groupoid C^* -algebras. (Received September 08, 2011)