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Jonathan H. Brown* (brownjh@math.ksu.edu). *The Brauer Semigroup of a groupoid and a symmetric imprimitivity theorem.*

In joint work with Geoff Goehle, we define a monoid called the Brauer semigroup for a locally compact Hausdorff groupoid E whose elements consist of Morita equivalence classes of E -dynamical systems. This construction generalizes both the equivariant Brauer semigroup for transformation groups introduced by an Huef et al. and the Brauer group for a groupoid introduced by Kumjian et al. We show that groupoid equivalence induces an isomorphism of Brauer semigroups and that this isomorphism preserves the Morita equivalence classes of the respective crossed products, thus generalizing Raeburn's symmetric imprimitivity theorem. (Received August 25, 2013)