

1113-46-260

Marius V Ionescu* (ionescu@usna.edu), United States Naval Academy, Department of Mathematics, 572C Holloway Road, Chauvenet Hall, Annapolis, MD 21402, and **Alex Kumjian**, **Dana P Williams** and **Aidan Sims**. *A Stabilization Theorem for Fell bundles over Groupoids*.

We prove that a saturated second countable Fell bundle over a second countable Hausdorff locally compact groupoid is equivalent to a groupoid dynamical system. Therefore the full (reduced) C^* -algebra of a Fell bundle is Morita equivalent to the full (reduced) C^* -algebra of a groupoid dynamical system. Our results generalize previous work of Alex Kumjian and Paul S. Muhly. As an application of our results, we describe the lattice of ideals of the C^* -algebra of a continuous Fell bundle using the corresponding results that Renault proved for groupoid dynamical systems. We also characterize the simplicity of C^* -algebras of continuous Fell bundles in terms of the minimality of the action of the groupoid on the primitive ideal space of the C^* -algebra over its unit space. This talk is based on joint work with Alex Kumjian, Dana P. Williams, and Aidan Sims. (Received August 24, 2015)