## 1056-47-1754Julian Michael Buck\* (jbuck1@uoregon.edu), 2250 Patterson Street unit 194, Eugene, OR97405. Crossed Products by Automorphisms with the Tracial Quasi-Rokhlin Property.

Crossed product constructions of C\*-algebras associated to minimal topological dynamics have been an area of intense study in recent years. We introduce a new property for automorphisms of a C\*-algebra, the tracial quasi-Rokhlin property, which is related to the various Rokhlin properties that have already appeared in the literature. We show that the crossed product C\*-algebras by certain automorphisms with this property can have good structure properties. In particular, we consider the case where the automorphism is for the algebra C(X,A), the continuous functions from some compact metric space to a C\*-algebra A. It is shown that under suitable conditions on the space X (what we have termed the dynamic comparison property), then an automorphism of C(X,A) which acts minimally on C(X) has the tracial quasi-Rokhlin property (in particular, this property applies to the well-known case of a minimal homeomorphism acting on C(X)). It will follow that the crossed products of C(X,A) by such automorphisms have good structure properties, which partly generalizes the situation for C(X). (Received September 22, 2009)