

ROKHLIN TYPE PROPERTIES AND STRUCTURE OF CROSSED PRODUCTS

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In view of the recent breakthrough in the classification of simple nuclear C^* -algebras, an interesting and challenging question is to understand when a crossed product belongs to the classifiable class. Group actions with Rokhlin type properties tend to pass structural properties from the underlying algebra to the crossed product, and therefore provide partial answers to this question. In this talk we first review the Rokhlin property in dynamics and von Neumann algebras, and then discuss higher dimensional Rokhlin properties in the context of C^* -algebras.