The tracial Rokhlin property: very outer group actions.

In this talk we will give the definition of a finite group action on a $C^*$-algebra $A$ having the tracial Rokhlin property. We will then present some theorems indicating when some properties of the $C^*$-algebra $A$ such as real rank zero and stable rank one are shared by the crossed product by actions with the tracial Rokhlin property. We will give a brief hint of the nature of the proofs, then conclude by indicating how such results are relevant to one of the major areas of effort for $C^*$-algebraists, namely the classification program. (Received September 16, 2007)