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Man-Duen Choi and **Frederic Latremoliere*** (frederic@math.toronto.edu), Old Chem Building, Department of Mathematical Sciences, University of Cincinnati, Cincinnati, OH 45221.

Some examples of actions of \mathbb{Z}_2 on C^ -algebras generated by unitaries.*

I will present a survey of my recent results with Professor Man-Duen Choi on several examples of actions of order-2 automorphisms on free group C^* -algebras. Of particular interest are the computations of the K-theory and the structure of the associated C^* -crossed-products and fixed point C^* -algebras. (Received August 28, 2006)