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Iterated Joins of Compact Groups

Abstract

(Joint work with Alexandru Chirvasitu.) The Borsuk-Ulam theorem in algebraic topology indicates restrictions for equivariant maps between spheres; in particular, there is no odd map from a sphere to another sphere of lower dimension. This idea may be generalized greatly in both the topological and operator algebraic settings for actions of compact (quantum) groups, leading to the noncommutative Borsuk-Ulam conjectures of Baum, Dabrowski, and Hajac. I will present our recent progress (both positive and negative) toward resolving these conjectures using properties of iterated compact group joins.

Talk time: 07/22/2016 5:00PM— 07/22/2016 5:20PM

Talk location: Cupples I Room 115

Special Session: Non-commutative geometry. Organized by X. Tang.