

1125-19-711 **Paul Baum, Erik Guentner and Rufus Willett*** (rufus@math.hawaii.edu), 2565 McCarthy Mall, Keller 401A, Honolulu, HI 96822. *Exactness and the Baum-Connes conjecture.*

The Baum-Connes conjecture (due to Paul Baum and Alain Connes) posits a surprising connection between topological and analytic aspects of group theory; it has important applications to manifold topology and representation theory, among other things. Although true in many cases, there are counterexamples to strong forms of the conjecture. I'll survey joint work with Paul Baum and Erik Guentner about the role of 'exactness' in these counterexamples, and possible reformulations on the analytic side that remove the counterexamples. (Received September 09, 2016)