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**Jesse S. F. Levitt\***, University of Southern California, Los Angeles, CA 90005, and **Iris Buschelman**. *Co-nilpotent Connected Hopf Algebra Actions*. Preliminary report.

We present progress towards calculating Hopf algebra actions over several classes of quantum groups when the Hopf algebra is co-nilpotent and connected. This is part of a larger effort to develop software that will calculate and classify Hopf actions in low dimensional cases. We will demonstrate the software with several worked examples. (Received February 06, 2018)