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Tim Cochran, Shelly Harvey, Constance Leidy and Peter Horn* (pdhorn@syr.edu), 215
Carnegie, Syracuse, 13244-1150. *Noncommutative knot Floer homology*. Preliminary report.

Noncommutative knot Floer homology (ncHFK) is a variant of combinatorial knot Floer homology with an Alexander ‘filtration’ taking values in a nonabelian group. The noncommutative grading lifts the integer-valued Alexander filtration in a certain sense. In this talk I will define the noncommutative Alexander filtration and the chain complex for ncHFK and discuss the difficulties that lie ahead. (Received January 16, 2015)