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Taylor E. Martin*, taylor.martin@shsu.edu. *Structure in Lower Order Quotients of the n -Solvable Filtration.*

The n -solvable filtration of the link concordance group, defined by Cochran, Orr, and Teichner in the late 90's, gives structure to the smooth knot and link concordance groups. Much is known about the n -solvable filtration of the knot concordance group for small n . For example, a knot is 0-solvable if and only if it has Arf invariant zero. Moreover, a knot is 0.5-solvable precisely when its Seifert matrix looks like that of a slice knot, called algebraically slice. Comparatively little is known for links. In this talk, we will mention a classification of 0-solvable links, progress towards understanding 0.5-solvable links, and work towards understanding the structure of lower order quotients of the n -solvable filtration. (Received September 12, 2014)