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Taylor E Martin* (taylor.martin@rice.edu). *Classification of 0-solvable links and results about 0.5-solvability.*

The n -solvable filtration, 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. However, very little is known for links. In this talk, we will completely classify 0-solvable links and discuss recent progress towards understanding 0.5-solvable links. (Received September 04, 2012)