

1086-57-485

**Taylor E Martin\*** ([taylor.martin@rice.edu](mailto: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 toward understanding 0.5-solvable links, including some necessary conditions. (Received September 04, 2012)