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Shelly Harvey* (shelly@rice.edu), **Jung Hwan Park** and **Arunima Ray**. *Pure braids, links bounding Whitney towers, and n -solvability.*

The n -solvable filtrations of the knot/link concordance groups were defined as a way of studying the structure of the groups and in particular, the subgroup of algebraically slice knots/links. While the knot concordance group C^1 is known to be an abelian group, when m is at least 2, the link concordance group C^m of m -component (string) links is known to be non-abelian. In particular, it is well known that the pure braid group with m strings is a subgroup of C^m and hence when m is at least 3, this shows that C^m contains a non-abelian free subgroup. We study the relationship between the derived subgroups of the the pure braid group, n -solvable filtration of C^m , links bounding symmetric Whitney towers, and links bounding gropes. (Received September 26, 2017)