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**Daniel C. Cohen\*** (cohen@math.lsu.edu) and **Henry K. Schenck**. *Chen ranks of arrangement groups.*

The Chen groups of a group  $G$  are the lower central series quotients of the maximal metabelian quotient of  $G$ . In the case where  $G$  is an arrangement group, the fundamental group of the complement of a complex hyperplane arrangement, we relate the ranks of the Chen groups to the first resonance variety, a jump locus for the cohomology of  $G$ . (Received February 18, 2013)