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Carrie A. Whittle* (cawhitt1@uark.edu), 1023 N. Shelly Ln., Republic, MO 65738. *The word problem in the automorphism groups of right-angled Artin groups is in P.* Preliminary report.

We construct a polynomial-time algorithm for the word problem in the automorphism groups of right-angled Artin groups. Our techniques generalize those of Schleimer where he finds a polynomial-time solution to the word problem for automorphism groups of free groups. (Received September 25, 2012)