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Jeremy Macdonald* (jeremodm@gmail.com). *Logspace computations in groups.*

Many algorithmic problems in groups have polynomial-time solutions, but can we solve the same problems using the more stringent condition of logarithmic space? Despite the restrictions of logspace computation, the list of group-theoretic problems solvable in logspace has been growing in the last few years. We will describe some of these recent advances, and add a few new results including logspace normal forms for $C'(1/6)$ small cancellation groups. (Received March 20, 2017)