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Mark B Greer* (mgreer@una.edu), University of North Alabama, One Harrison Plaza, Florence, AL 35632. *Loop constructions from finite groups.*

Loops are magmas (or groupoids) which contain an identity element and both left and right translations are bijections. Since groups are precisely associative loops, many problems in loop theory are motivated by group theory. In this talk, we will discuss several constructions of loops from finite groups. The talk will focus on constructions for Bruck and automorphic loops, their connections, as well as several open problems stated purely in terms of groups. (Received January 22, 2018)