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Jonathan I Hall* (jhall@math.msu.edu), Michigan State University, East Lansing, MI 48824.

Algebras and groups. Preliminary report.

Groups have been used to construct algebras—for instance Weyl groups and Lie algebras—and algebras have been used to construct groups—Norton and Griess’ constructions of sporadic simple groups. We describe recent results of this sort and new mathematics they have motivated. (Received August 14, 2019)