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Caroline J Klivans* (klivans@brown.edu). *Geometric and topological combinatorics in chip-firing.*

Chip-firing processes are discrete dynamical systems. A commodity (chips, sand, dollars) is exchanged between sites of a network according to simple local rules. Although governed by local rules, the long-term global behavior of the system reveals unexpected properties. I will discuss some of the ways in which geometric and topological combinatorics arise in the theory of chip-firing. (Received September 24, 2018)