1056-05-1709   **Persi Diaconis**, Department of Statistics, Sequoia Hall, 390 Serra Mall, Stanford, CA 94305, and **Jason Fulman*** (`fulman@usc.edu`), USC Department of Math, KAP 108 - MC 2532, 3620 South Vermont Avenue, Los Angeles, CA 90089. *Carries and shuffling.*

We survey some connections between carries of arithmetic and random permutations obtained from card shuffling on the symmetric and hyperoctahedral groups. This talk is based on joint work with Persi Diaconis, and will be accessible to a general audience. (Received September 22, 2009)