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Persi Diaconis and **Jason Fulman*** (fulman@usc.edu). *Combinatorics of the carries Markov chain.*

We study the combinatorics of “carries” when adding integers. We give connections with card shuffling and sections of generating functions. We also determine the rate of convergence of the carries chain to stationarity, and give explicit expressions for the left and right eigenvectors of the carries chain. This work is joint with Persi Diaconis. (Received August 28, 2013)