Carries and Markov Chains

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Abstract

Holte[1] studied the Markov chains of the “carries”. We consider a variant, where the bases are negative. Under certain conditions, the transition probability matrices are similar to those of the positive cases, which have the same stationary distributions described by the Eulerian numbers. We also show a numerical experimental result on carries on Gaussian integers. This is a joint work with Fumihiko Nakano.

References