On A Conjecture about Primes in the Doubly Stochastic Circulant Matrices

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The classification of primes in the semigroup of the nonnegative matrices is of interest to control and system theory. A few examples of primes in several classes of the nonnegative matrices are known. In this paper, a conjecture about primes in doubly stochastic circulant matrices posed by G. Picci etc. is investigated, and some results are obtained.

This is a joint work with Jituan Zhou and Michael K. Ng.