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Prime number theorem for regular Toeplitz subshifts. (English) Zbl 07488211
Ergodic Theory Dyn. Syst. 42, No. 4, 1446-1473 (2022)

Summary: We prove that neither a prime nor an \(l\)-almost prime number theorem holds in the class of regular Toeplitz subshifts. But when a quantitative strengthening of the regularity with respect to the periodic structure involving Euler’s totient function is assumed, then the two theorems hold.

MSC:
37B10 Symbolic dynamics
37A44 Relations between ergodic theory and number theory
11N05 Distribution of primes
11N13 Primes in congruence classes

Keywords:
almost prime numbers; polynomial ergodic theorems; prime number theorem; Toeplitz systems

Full Text: DOI

References:


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