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Estimates on the number of orbits of the Dyck shift. (English) [Zbl 1353.37046]


Summary: In this paper, we get crucial estimates of fundamental sums that involve the number of closed orbits of the Dyck shift. These estimates are given as the prime orbit theorem, Mertens’ orbit theorem, Meissel’s orbit theorem and Dirichlet series. Different and more direct methods are used in the proofs without any complicated theoretical discussions.

MSC:
37C35 Orbit growth in dynamical systems
37A45 Relations of ergodic theory with number theory and harmonic analysis (MSC2010)

Cited in 2 Documents

Keywords:
Dyck shift; closed orbits

Full Text: DOI

References:


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