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Asymptotic formulas on flat surfaces. (English) Zbl 1096.37501
Ergodic Theory Dyn. Syst. 21, No. 2, 443-478 (2001).

Summary: We find asymptotics for the number of cylinders and saddle connections on flat surfaces. These results extend previous results of *W. V. Veech* [Ann. Math. (2) 148, No. 3, 895-944 (1998; [Zbl 0922.22003](#))]. The authors use an ergodic theorem proved by *A. Nevo* [Equidistribution in measure preserving actions of semisimple groups, preprint] to find asymptotic quadratic growth rates for the number of closed trajectories on a generic surface.

MSC:

- 37F30 Quasiconformal methods and Teichmüller theory, etc. (dynamical systems) (MSC2010)
- 37C35 Orbit growth in dynamical systems

Cited in **4** Reviews
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