

**Kerckhoff, Steven; Masur, Howard; Smillie, John**

**Ergodicity of billiard flows and quadratic differentials.** (English) Zbl 0637.58010

*Ann. Math. (2)* 124, 293-311 (1986).

The paper is concerned with polygonal billiards in the plane. Its main result is that the set of polygons with an ergodic billiard flow contains a dense  $G_\delta$ . It is obtained as a corollary of a result the authors prove about Riemannian surfaces and quadratic differentials.

Reviewer: [H.Crauel](#)

**MSC:**

[37A99](#) Ergodic theory

[30F99](#) Riemann surfaces

Cited in **5** Reviews  
Cited in **104** Documents

**Keywords:**

polygonal billiards; ergodic billiard flow

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