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On von Koch theorem for PSL (2, Z). (English) Zbl 07381194

Summary: Under a previously studied condition on the argument of the Selberg zeta function on the critical line, we reach the critical exponent $\frac{1}{2}$ in the error term of the prime geodesic theorem for the modular group PSL (2, Z) outside a set of finite logarithmic measure. We also prove a conditional prime geodesic theorem of Hejhal’s type in this setting without the latter exclusion.

MSC:
11M36 Selberg zeta functions and regularized determinants; applications to spectral theory, Dirichlet series, Eisenstein series, etc. (explicit formulas)
11F72 Spectral theory; trace formulas (e.g., that of Selberg)
58J50 Spectral problems; spectral geometry; scattering theory on manifolds

Keywords:
prime geodesic theorem; Selberg zeta function; modular group

Full Text: DOI

References:


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