April 8, 2024 Sergey V. Bolotin Another billiard problem

In the works of S.Y.Dobrokhotov with coauthors on the quasiclassical approximation for the degenerate wave equation there appeared the problem of studying the geodesic flow of a Riemannian metric which tends to infinity at the boundary of a domain. After regularization the problem is reduced to studying a degenerate Birkhoff-type billiard. We obtain a normal form of the regularized geodesic flow near the boundary and prove a version of Lazutkin's theorem for the corresponding billiard map. This is a joint work with D.V.Treschev.

SCIENTIFIC SEMINAR "DIFFERENTIAL GEOMETRY AND APPLICATIONS"

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