

**H. Zhang**, “*Length spectrum rigidity for Bunimovich Stadia*”

We establish the dynamical spectral rigidity for piecewise analytic Bunimovich stadia and squash-type stadia. In addition, for smooth Bunimovich stadia and squash-type stadia we compute the Lyapunov eigenvalues along the maximal period two orbit, as well as value of the Peierls' Barrier function from the marked length spectrum. This is a joint work with Jianyu Chen and Vadim Kaloshin.