

Monday, March 17, 2025
from 4:45 p.m. to 6:20 p.m. (Moscow time)
room 16-10 and ZOOM translation

Vladimir N. Zav'yalov
*History of development of
the theory of mathematical billiards*

Nowadays, the theory of mathematical billiards is widely used in various fields of mathematics. Not only methods of classical geometry, but also methods of ergodic theory, differential geometry, topology, number theory, and theoretical mechanics are used as tools for studying the properties of billiards. Also this theory has applications in physics. The report will review the historical aspect of the development of the billiard model of dynamical systems, starting with the attempt to describe the dynamics of billiards as a table game, ending with modern concepts.

**SCIENTIFIC SEMINAR
“DIFFERENTIAL GEOMETRY AND APPLICATIONS”**

headed by Academician of RAS Anatoly T. Fomenko

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