

Monday, September 21, 2026, from 4:45 p.m. to 6:20 p.m.
(Moscow time), room 16-10 and ZOOM translation

**A.T. Fomenko, S.A. Galkin,
I.S. Kuznetsova, M.M. Mikhailov,
D.A. Tkachenko, E.D. Shadrina**

Topological Wonders

Topology and geometry contain vivid, easy-to-state, and important themes that may at first seem unexpected and mysterious. We have provisionally called them “wonders.” In fact, they are grounded in deep mathematical facts and theories. Some of them will be briefly discussed in our talks. There will be twenty-four “wonders.” (Of course, we cannot cover every other mathematical wonder as well.) We will present only the statements and the essence of these “wonders,” without details or theorem proofs. If some of them arouse particular interest among the audience, a more detailed presentation can be organized later.

S.A. Galkin, A.T. Fomenko.

(15) AI solved the Jacobian problem in dimension 3 and higher.

E.D. Shadrina, A.T. Fomenko.

(16) Bing’s house.

(17) Billiards and the Coriolis effect.

(18) Thomson’s tumbling top.

(19) Tilings of Euclidean space and Arabic mosaics. M.C. Escher, actions of discrete groups.

(20) Maurits Cornelis Escher – impossible objects.

M.M. Mikhailov, A.T. Fomenko.

(21) Hinges and signature modelling.

(22) Cable-stayed constructions.

(23) Densest sphere packings.

(24) Confocal quadrics, a film on billiard balls and rigid bodies.

SCIENTIFIC SEMINAR

“DIFFERENTIAL GEOMETRY AND APPLICATIONS”

headed by Academician of RAS Anatoly T. Fomenko

The zoom-ref is provided only to registered persons

To be registered, ask any participant of our seminar to endorse you
Announcements of previous talks can be found on the seminar website

<http://dfgm.math.msu.su/chairsem.php>