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*On stability and (non)uniqueness of cycles in
models of circular gene networks*

In phase portraits of piecewise linear 3D, 4D, 5D, and 6D dynamical systems, which simulate gene networks functioning, we construct invariant domains. Each of them contains exactly one periodic trajectory. Stability of these cycles is shown. Outside of these invariant domains dynamical systems of dimensions 5, 6 etc., these dynamical systems can possess other cycles.

SCIENTIFIC SEMINAR

“DIFFERENTIAL GEOMETRY AND APPLICATIONS”

headed by Academician of RAS Anatoly T. Fomenko

**The seminar takes place online in ZOOM on Mondays
from 4:45 p.m. to 6:20 p.m. (Moscow time)**

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