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Alexander S. Kuleshov
Maxim M. Gadzhiev

*Motion of a Rigid Body with a Fixed Point in a
Flow of Particles*

The problem of motion of a rigid body with a fixed point in a free molecular flow of particles is considered. It is shown that the equations of motion of the body generalize the classical Euler – Poisson equations of motion of a heavy rigid body with a fixed point and they are represented in the form of the classical Euler – Poisson equations in the case, when the surface of the body in a flow of particles is a sphere. Problems of the existence of first integrals in the considered system are discussed.

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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