## Nanosatellites stabilization at pulsed launch in atmosphere and in space

©Yu.V. Gerasimov, G.K. Karetnikov, A.B. Selivanov

Bauman Moscow State Technical University, Moscow, 105005, Russia

The model of universal nano-satellite designed for electrodynamic Gun launch is developed. The estimated nano-satellite launch and stabilization system works equally well in space and in planetary atmospheres. Stabilization of the nano-satellite is not achieved by the rotation of the object, that allows solve the target problem.

**Keywords:** nanosatellites, cosmic transport systems, pulsed start, cluster cosmic systems.

**Gerasimov Yu.V.** graduated from Bauman Moscow Higher Technical School. Ph.D., Assoc. Professor of the Physics Department of Bauman Moscow State Technical University. Specialist in the field of explosion physics, wave dynamics, strength, non-destructive testing, numerical and analytical methods for solving problems of interaction of bodies and physical fields, research in high-speed throwing armatures.

**Karetnikov G.K.** graduated from Bauman Moscow Higher Technical School. Ph.D., Assoc. Professor of the Physics Department of Bauman Moscow State Technical University. A specialist in the field of aerodynamics.

**Selivanov A.B.** graduated from Moscow Institute of Physics and Technology (State University). Ph.D., Assoc. Professor of the Physics Department of Bauman Moscow State Technical University. Specialists in the field of theoretical physics, gravitation and cosmology, aerodynamics. e-mail: a selivanov@list.ru