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Galushina Tatyana Yu.

Associate professor of the Physics Faculty, Tomsk State University

Senior staff scientist, Applied Mathematics and Mechanics Scientific Research Institute, Tomsk State University

Education

Graduated from Tomsk State University (1998)

Academic Degree

Candidate of Science in Physics and Mathematics (2004)

Experience

Principal Investigator and Investigator in a number of grants of Russian Foundation for Basic Research, in Federal programs, and in programs of the Education and Science Ministry of the Russian Federation.

Member of Council Board of Euro-Asian Astronomical Society (2012).

Referee for the international journals: Solar System Research, and Russian Physics Journal.

Teaching

1. Information system design
2. Astrometry
3. System engineering
4. Intellectual information system
5. Knowledge representation in information system

Research Interests

Dynamics of small bodies in the Solar System

Asteroid hazard problem

Publications

About 60 papers in Russian and international journals.

Publications in English see [here](#) .

Publications in English:

1. Bykova L.E., Galushina T.Yu. Orbital evolution of near-Earth asteroids close to mean motion resonances// JENAM-2000. 9th European and 5th Euro-Asian Astronomical Society Conference. Abstracts. Moscow, Russia, May 29 - June 3, 2000.
2. Bykova L.E., Galushina T.Yu. Near-Earth Asteroid Close to Mean Motion Resonances: the Orbital Evolution// Dynamics of Natural and Artificial Celestial Bodies. Proceedings of US/European Celestial Mechanics Workshop. Poznan, Poland, July 3 - 7, 2000. P. 241 - 246.
3. Bykova L.E., Galushina T.Yu. Evolution of near-Earth asteroids close to mean motion resonances// Planetary and Space Science 49. 2001. P. 811 - 815.
4. Bykova L.E., Galushina T.Yu. Numerical simulation of the orbital evolution of Near-Earth asteroids close to mean motion resonances // Celestial Mechanics and Dynamical Astronomy, 2002, 82(3), P. 265 - 284.
5. Galushina T., Bykova L. Applied program system for study of motion and orbital evolution of asteroids. In "Resonances, stabilization, and stable chaos in hierarchical triple systems". Eds. V.V. Orlov, A.V. Rubinov. St. Petersburg University. 2008. 5-11.
6. Bykova L., Galushina T. Investigation of probable motion domains for the asteroid 99942 Apophis. In "Resonances, stabilization, and stable chaos in hierarchical triple systems". Eds. V.V. Orlov, A.V. Rubinov. St. Petersburg University. 2008. 12-17.
7. Bykova L.E., Galushina T.Yu., Razdymahina O.H. Near-Earth asteroids approaching to Jupiter // Dynamics of Solar System bodies: Proc. Internat. Astron. Conf., Tomsk, July 27-August 1, 2008. - Tomsk State University, 2008. P. 29
8. L.E. Bykova, T.Yu. Galushina About precision of prediction of the asteroid (99942) Apophis motion before and after the close encounter in 2029 //International Conference Asteroid-Comet Hazard - 2009, September 21-25, 2009, St. Petersburg, Russia. Book of Abstracts. St. Petersburg: IAA RAS, 2009. P. 201-202.
9. Romashin G. S., Wibe J., Skripnichenko P., Galushina T., Kaiser, G. Minor Planet Observations [168 Kourovskaya] Minor Planet Circular 81144, 6 (2012) (http://www.minorplanetcenter.net/iau/ECS/MPCArchive/2012/MPC_20121128.pdf)
10. Bykova L.E., Galushina T.Yu., Baturin A.P. The algorithms and programs for investigations of near-Earth asteroids // Astronomical and Astrophysical Transactions (AApTr), 2012, Vol. 27, Issue 3, pp. 489-494

Honors

Winner of competition of the Tomsk region in education and sciences (2005)

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