



Rathbay Myrzakulov
Head of Department

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Professional experience:

April, 2007 - to the present - ENU them. L.N. Gumilyov, professor, head. Department of "General and Theoretical Physics";

2006-2007 - ENU them. L.N. Gumilyov, Professor of the Department "Methods of Mathematical Modeling";

June, 2006 - to the present - Eurasian International Center for Theoretical Physics at ENU. L.N. Gumilyov, director.

Awards and prizes:

1. Laureate State. RK Prize in the field of science and technology. Al-Farabi (2017);
2. Twice laureate them. K. Satpayev for the best research in the field of natural sciences (2010, 2016);
3. Winner of the independent award "Лидер Науки Центральной Азии" for high scientometric indicators based on data from Thomson Reuters (Web of Science) (2015);
4. Twice awarded the prize "Top Author Springer" in Central Asia (2015, 2016);
5. Six-time holder of a state scientific scholarship for scientists and specialists who have made an outstanding contribution to the development of science and technology (2004–2006, 2008–2010, 2012–2013, 2013–2014, 2015, 2016 year);
6. Winner of the grant "Лучший преподаватель вуза" (2010);
7. Winner of the "Болашак" grant

Academic degree: Doctor of Physics and Mathematics

Academic degree: Professor, 04/01/02 - Theoretical Physics, 2002

Scientific School: KazSU them. CM. Kirov (Almaty), 1972-1979;

Joint Institute for Nuclear Research (Dubna, Russia), postgraduate study, 1984-1988

Research interests: Nonlinear mathematics, physics and biophysics, geometry and topology, the theory of solitons, strings, gravity and cosmology

Scientific grants:

1. Winner of the NATO grant, INTAS;
2. Study of dynamic processes and generalization of the basic laws of thermodynamics for the extended theory of gravity
3. Studies of nonlinear properties of strong gravitational fields based on the theory of solitons
4. Modified cosmological theories of inflation and dark energy
5. Study of the dynamic evolution of a large-scale structure against the background of a heterogeneous viscous fluid
6. Some problems of nonlinear theories of gravitational and strong interactions, and their cosmological application

Readable courses:

Relativistic astrophysics (B), Additional chapters of the theory of integrable nonlinear systems (D)

Publications (elect):

1. Myrzakulov R. Accelerating universe from $F(T)$ gravity. European Physical Journal C, v.71, N9, 1752 (2011). [Импакт фактор=5.331];
2. Myrzakulov R. FRW Cosmology in $F(R,T)$ Gravity. European Physical Journal C, v.72, N11, 2203, (2012). [Импакт фактор=5.331];
3. Myrzakulov R. Knot Universes in Bianchi Type I Cosmology. Advances in High Energy Physics, v.2012, 868203 (2012). [Импакт фактор=1.740];
4. Myrzakulov R. Cosmology of $F(T)$ gravity and k-essence. Entropy, v.14, N9, 1627-1651 (2012). [Импакт фактор=1.821];
5. Myrzakulov R. $F(T)$ gravity and k-essence. General Relativity and Gravitation, v.44, N12, 3059-3080 (2012) [Импакт фактор=1.618];

(2010-2011) for a scientific internship at the University of California (USA);

8. Awarded the badge of the Ministry of Education and Science of the Republic of Kazakhstan “За заслуги в развитии науки Республики Казахстан” (2014);
9. The jubilee medal for the contribution to the development of the university “әл-Фараби атындағы Қазақ ұлттық университетіне 80 жыл” (2015);
10. The jubilee medal “Қазақстан Конституциясына 20 жыл” (2015);
11. The jubilee medal “ҚР тәуелсіздігіне 25 жыл” (2016).