



**Aidar Morzabayev**

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**Curriculum vitae:**

2000-till present – Professor of the Department of Nuclear Physics, New Materials and Technologies of the L. N. Gumilyov Eurasian National University;  
1994-2000- Associate Professor, Head of the Research Center, Head of Educational Methodology Department of the L. N. Gumilyov Eurasian National University;  
1977-1994- Senior lecturer, Associate professor, vice-rector of I.Altynsarin Arkalyk Pedagogical Institute.

**Awards:**

2009 Grant "The best teacher of the university".

**Scientific degree, title, scientific school:**

Candidate of physics and mathematics sciences,  
Al-Farabi Kazakh National university, Physics department. Research Institute of Nuclear Physics MGU

**Scientific interests:**

Theory of nuclear reactions, solar-terrestrial physics.

**Research Grants :**

2006-2011- MES program "Fundamental research" scientific direction 2.2. Formation and Evolution of Physics of Space Weather  
Quest 02.01.07 "To develop the mathematical apparatus of the formation of an over  $\rightarrow$  lachnosti Kazakhstan region, taking into account geo-and helio-physical environment".

2012-2013- budget program MES: 055 "Scientific and/or technical activities".

**Delivered courses:** Quantum Mechanics, Nuclear Reactions Theory, Introduction to the Theory of the Atomic Nucleus.

**Author's courses:**

Fundamentals of computer physics, quantum mechanics, nuclear and elementary particle theory of nuclear reactions, setting and conducting experiments in nuclear physics.

**Publications (selected):**

1. S.V. Artemov, N. Burtebayev, J.T. Burtebayeva, A.K.Morzabayev,L.I. Galanina, N.S. Zelenskaya Analysis of mechanisms of the reaction  $^{11}\text{B}(\alpha, \text{T})^{12}\text{C}$  at The energies  $E_{\alpha}=40\text{--}50$  MEv// Uzbek Journal of Physics. - Vol.13 (№4), 2011. - P.239-244;
2. Morzabayev A.K. Accounting metabolic processes in the elastic scattering of composite particles /Vestnik of Eurasian National University. - № 4 (83). – Astana: ENU, 2011. – P. 88-93;
3. A.K. Morzabayev et al. Alpha cluster transferin  $^{16}\text{O}+^{12}\text{C}$  at energy 41.3 mev. // International Journal of Mathematics and Physics. - 2012.-2 (4).-P. 98-102;
4. Morzabayev et al. The scattering of alpha particles by nuclei of beryllium / Yadro–2011: abstracts of 61 international conference on nuclear spectroscopy and nuclear structure – Sarov, (Russia), RFYaTs–VNIIEF, 2011. – P.102;
5. Morzabayeva R.B, Morzabayev A.K. Basics of methodological preparations to innovation activities in teaching physics students of pedagogical specialties / Physics and physical education: achievements and prospects: abstracts 3 Intl. scientific. conf. – Bishkek, (Kyrgyzstan), 2011. – P. 100;
6. Morzabayev A., Erkhov V., Sautbekov S., Makhmutov V. Possible imprint of heliophysical conditions on the atmospheric parameter variations.- 32nd International Cosmic Ray Conference. Beijing (China) - August 11th-18th 2011, ID 354;
- 7 Morzabayev A.K., Mechanisms of nuclear reactions Astana: «Master PO», 2011. – 145 P. ISBN 978-601-7321-36-9;
8. Mahmutov V.S., Stozhkov Y.I., Bazilevskaya G.A., Svirzhevsky N.S., Morzabayev A.K. Latitudinal effect of muons in the Earth's atmosphere at solar minimum .Izvestiya of Russian Academy of Sciences, Vol.phys. 2009, I. 73(3), 368-370.