



BAKYTBEK MAUYEY

Surname: Mauyey | First name: Bakytbek

Sex: Male

Date of birth: 08-01-1988

Place of birth: Bayan-Ulgii, Mongolia

Nationality: Kazakh

Citizenship: Kazakhstan

+7 702-510-5266

bahytbek01@gmail.com

EDUCATION

Highest degree <i>Ph.D in Nuclear Physics</i>	Sep. 2015 – June 2018
L.N.Gumilyov Eurasian National University	Nur-Sultan, Kazakhstan
Ph.D. Thesis Title: Study of elastic scattering of 15N ions on 1p-shell nuclei at energies near the Coulomb barrier	
Date of Declaration (Original Certificate) 14th February 2020	
Master degree: <i>Nuclear Physics</i>	Sep. 2011 – June 2013
L.N.Gumilyov Eurasian National University	Nur-Sultan, Kazakhstan
Bachelor degree: <i>Nuclear Physics</i>	Sep. 2006 – June 2011
L.N.Gumilyov Eurasian National University	Nur-Sultan, Kazakhstan
High School: <i>9-11 grades</i>	Sep. 2003 – June 2006
Shortandy Public School	Shortandy, Kazakhstan
Elementary and Middle School: <i>1-8 grades</i>	Sep. 1995 – June 2003
Ulgii Public School	Bayan-Ulgii, Mongolia

EDITIONAL TRAINING COURSES

Japan-IAEA Joint Nuclear Energy Management School participant	July 2016
Full course Nuclear Energy Management school certificate	Tokyo and Fukui, JAPAN
<ul style="list-style-type: none"> • Current Status of Member States and Role of IAEA • International Non-proliferation Regime: The Role of the IAEA and Responsibilities of Member States • Nuclear Security and Physical Protection • Global Energy Market and the Role of Nuclear • Management of Decommissioning • Purchase and Supply Chain Management • Risk Communication and Public Acceptance Stakeholder Involvement • Management of Nuclear Power Projects • Education of Nuclear Engineering and Managements 	
Joint ISTC-CERN-JINR summer school participant	September 2010
High energy physics and accelerator physics	Astana, Kazakhstan
<ul style="list-style-type: none"> • participated training lectures • have been certificated 	

WORK EXPERIENCE

Scientific Researcher	August 2018 – till present
International Intergovernmental Organization – Joint Institute for Nuclear Research	Dubna, Russia
<ul style="list-style-type: none"> • calibration of detectors and electronics. • Carry out preparatory work for the implementation of experiments at ACCULINA-2 	
Visiting Scientific Researcher	21 November-07 December 2018 05-18 May 2019
Heavy Ion Laboratory, University of Warsaw	Warsaw, Poland

- Experiment title: Measurement of reaction cross section of the ^{10}B on the light nuclei at near Coulomb barrier 4 MeV/n energies
- Role in the experiment : Carry out preparatory work for experiment and measure reaction cross section

Visiting Scientific Researcher 09-22 May, 2018
Heavy Ion Laboratory, University of Warsaw Warsaw, Poland

- Experiment title: Measurement of the nucleon-transfer reaction cross section for the $^{10}\text{B}+^{12}\text{C}$ and $^{10}\text{B}+^{16}\text{O}$ systems close to the Coulomb barrier
- Role in the experiment : Carry out preparatory work for experiment and measure reaction cross section

Visiting Scientific Researcher 09-27 May 2017
Heavy Ion Laboratory, University of Warsaw Warsaw, Poland

- Experiment title: Measurement of the elastic scattering and one-nucleon transfer reactions for the $^{15}\text{N}+^{11}\text{B}$ system and at the ^{15}N beam energy close to the Coulomb barrier
- Role in the experiment : Carry out preparatory work for experiment and measure reaction cross section

Junior Scientific Researcher November 2016 – February 2020
International Intergovernmental Organization–Joint Institute for Nuclear Research Dubna, Russia

- calibration of detectors and electronics.
- Carry out preparatory work for the implementation of experiments at ACCULINA-2

Visiting Scientific Researcher 11-23 May 2015
Heavy Ion Laboratory, University of Warsaw Warsaw, Poland

- Experiment title: Measurement of reaction cross section of the ^{14}N on the light nuclei at near Coulomb barrier 2-3 MeV/n
- Role in the experiment : Carry out preparatory work for experiment and measure reaction cross section

Junior Scientific Researcher August 2013 – 2016
Astana Branch of the Institute of Nuclear Physics Astana, Kazakhstan

- Carry out preparatory work for the implementation of experiments at the DC-60 cyclotron.
- Fabrication of target nuclei

Engineer September 2011 – July 2013
the Astana Branch of the Institute of Nuclear Physics Astana, Kazakhstan

- Carry out preparatory work for the implementation of experiments at the DC-60 cyclotron.
- Fabrication of target nuclei

Laboratory Assistant October 2009 – August 2011
the Astana Branch of the Institute of Nuclear Physics Astana, Kazakhstan

- Carry out preparatory work for the implementation of experiments at the DC-60 cyclotron.
- Fabrication of target nuclei

PROJECTS AND RESEARCH

- BR10965174-Applied research on the basis of a nuclear reactor in the field of radioactive waste management, production of radioisotopes and radiation materials science | Member of the research team| 01.06.2021 - 31.12.2023
- BR10965174-Applied research on the basis of a nuclear reactor in the field of radioactive waste management, production of radioisotopes and radiation materials science | Member of the research team| 01.06.2021 - 31.12.2023
- BR10965174-Applied research on the basis of a nuclear reactor in the field of radioactive waste management, production of radioisotopes and radiation materials science | Member of the research team| 01.06.2021 - 31.12.2023

1. New measurements and theoretical analysis for the $^{16}\text{O} + ^{12}\text{C}$ nuclear system.

Authors: M Soldatkhan, D., Yergaliuly, G., Amangeldi, N., Mauey, B., Odsuren, M., Ibraheem, A. A., Hamada, S.

2022

Published: Brazilian Journal of Physics, 52(5) doi:10.1007/s13538-022-01153-0

2. H6 states studied in the H 2 (He 8, He 4) reaction and evidence of an extremely correlated character of the H 5 ground state

Authors: E.Yu. Nikolskii, I.A. Muzalevskii, A.A. Bezbakh, V. Chudoba, S.A. Krupko, S.G. Belogurov, D. Biar, A.S. Fomichev, E.M. Gazeeva, A.V. Gorshkov, L.V. Grigorenko, G. Kaminski, M.S. Khirk, O. Kiselev, D.A. Kostyleva, M.Yu. Kozlov, B. Mauey, I. Mukha, Yu.L. Parfenova, W. Piatek, A.M. Quynh, V.N. Schetinin, A. Serikov, S.I. Sidorchuk, P.G. Sharov, N.B. Shulgina, R.S. Slepnev, S.V. Stepantsov, A. Swiercz, P. Szymkiewicz, G.M. Ter-Akopian, R. Wolski, B. Zalewski, M.V. Zhukov

2022

Published: Physical Review C.– 2022.–.105.–№.6.–.064605

3. New measurements and analysis of elastic scattering of ^{13}C by ^9Be nuclei in a wide energy range

Authors: Nassurlla, M.; Burtebayev, N. ; Karakozov, B. K. ; Sakuta, S. B. ; Boztosun, I. ; Amangeldi, N; Morzabayev, A. K. ; Yergaliuly, G. ; Alimov, D. K. ; Burtebayeva, J. ; Nassurlla, Maulen ; Mauey, B. ; Kucuk, Y. ; Hamada, Sh. ; Sabidolda, A. ; Khojayev, R.

2021

Published: The European Physical Journal A. – 2021. – . 57. – №. 7.–.1-9

4. Resonant states in ^7H : Experimental studies of the $2\text{H}(^8\text{He}, ^3\text{He})$ reaction

Authors: I.A. Muzalevskii, A.A. Bezbakh, E.Yu. Nikolskii, V. Chudoba, S.A. Krupko, S.G. Belogurov, D. Biar, A.S. Fomichev, E.M. Gazeeva, A.V. Gorshkov, L.V. Grigorenko, G. Kaminski, M.S. Khirk, O. Kiselev, D.A. Kostyleva, M.Yu. Kozlov, B. Mauey, I. Mukha, Yu.L. Parfenova, W. Piatek, A.M. Quynh, V.N. Schetinin, A. Serikov, S.I. Sidorchuk, P.G. Sharov, N.B. Shulgina, R.S. Slepnev, S.V. Stepantsov, A. Swiercz, P. Szymkiewicz, G.M. Ter-Akopian, R. Wolski, B. Zalewski, M.V. Zhukov

2021

Published: Physical Review C.- 2021.- V.103, Issue 4,DOI: 10.1103/PhysRevC.103.044313

5. Finding new physics, phenomenological, experimental and astrophysical predictions

Authors: Das , C R , Huitu , K , Kurmanaliyev , Z K , Mauey , B Kärkkäinen

2021

Published: Journal of Physics: Conference Series. – IOP Publishing, 2020. – . 1690. – №. 1. – . 012091.

6. Elastic and Inelastic Scattering of Deuterons From ^{13}C

Authors: N Burtebayev, D M Janseitov, Zh Kerimkulov, D Alimov, M Nassurlla, D S Valiolda, B Mauey, A S Demyanova, A N Danilov, Sh Hamada, and A. Aimaganbetov

2020

Published: Journal of Physics: Conference Series. – IOP Publishing, 2020. – . 1555. – №. 1. – . 012028.

7. Study of ^{10}Li Low Energy Spectrum in the $2\text{H}(^9\text{Li}, \text{p})$ Reaction

Authors: A.A. Bezbakh, S.G. Belogurov, D. Biare, V. Chudoba, A.S. Fomichev, E.M. Gazeeva, M.S. Golovkov, A.V. Gorshkov, G. Kaminski, S.A. Krupko, B. Mauey, I.A. Muzalevskii, E.Yu. Nikolskii, Yu.L. Parfenova, W. Piatek, A.M. Quynh, A. Serikov, S.I. Sidorchuk, P.G. Sharov, R.S. Slepnev, S.V. Stepantsov, A. Swiercz, P. Szymkiewicz, G.M. Ter-Akopian, R. Wolski, B. Zalewski

2020

Published: Bulletin of the Russian Academy of Sciences: Physics. -2020. -V.84.DOI: 10.3103/S1062873820040048

8. Detection of the Low Energy Recoil ^3He in the Reaction $2\text{H}(^8\text{He}, ^3\text{He})^7\text{H}$

Authors: I.A. Muzalevskii, V. Chudoba, Belogurov, A.A. Bezbakh, D. Biare, A.S. Fomichev, S.A. Krupko, E.M. Gazeeva, M.S. Golovkov, A.V. Gorshkov, L.V. Grigorenko, G. Kaminski, O. Kiselev, D.A. Kostyleva, M.Yu. Kozlov, B. Mauey, I. Mukha, E.Yu. Nikolskii, Yu.L. Parfenova, W. Piatek, A.M. Quynh, V.N. Schetinin, A. Serikov, S.I. Sidorchuk, P.G. Sharov, R. S. Slepnev, S.V. Stepantsov, A. Swiercz, P. Szymkiewicz, G.M. Ter-Akopian, R. Wolski, B. Zalewski

2020

Published: Bulletin of the Russian Academy of Sciences: Physics. -2020. -V.84.DOI: 10.3103/S106287382004019X.

9. Evidence for the First Excited State of ${}^7\text{H}$

Authors: A.A. Bezbakh, V. Chudoba, S.A. Krupko, S.G. Belogurov, D. Biare, A.S. Fomichev, E.M. Gazeeva, A.V. Gorshkov, L.V. Grigorenko, G. Kaminski, O.A. Kiselev, D.A. Kostyleva, M.Yu. Kozlov, B. Mauey, I. Mukha, I.A. Muzalevskii, E.Yu. Nikolskii, Yu.L. Parfenova, W. Piatek, A.M. Quynh, V.N. Schetinin, A. Serikov, S.I. Sidorchuk, P.G. Sharov, R.S. Slepnev, S.V. Stepantsov, A. Swiercz, P. Szymkiewicz, G.M. Ter-Akopian, R. Wolski, B. Zalewski, M.V. Zhukov

2020

Published: Physical Review Letters.-2020.-V.124. Issue.2 DOI:10.1103/PhysRevLett.124.022502

10. Study of elastic scattering of ${}^{10}\text{B}$ ions on ${}^{12}\text{C}$ nuclei at the energy of 17.5 MeV

Authors: N. Amangeldi, N. Burtebayev, S.B. Sakuta, M. Nassurlla, J. Burtebayeva, G. Yergaliuly, A. Sabidolda, K. Rusek, A. Trzcinska, M. Wolinska-Cichocka, B. Mauey

2020

Published: Acta Physica Polonica B. -2020. -V.51.-P.757. DOI: 10.5506/APhysPolB.51.757.

11. Investigation of deuteron scattering from ${}^{13}\text{C}$ at low energy

Authors: D.M. Janseitov, N. Burtebayev, Zh. Kerimkulov, D. Alimov, M. Nassurlla, B. Mauey, D.S. Valiolda, A.S. Demyanova, A.N. Danilov, Sh. Hamada, A. Aimaganbetov

2020

Published: Acta Physica Polonica B. -2020. -V.51.DOI: 10.5506 /APhysPolB.51.745.

12. Current Status of New Fragment Separator ACCULINNA-2 and the First Day Experiments

Authors: A.V. Gorshkov, S.G. Belogurov, A.A. Bezbakh, D. Biare, W. Beekman, V. Chudoba, A.S. Fomichev, M.S. Golovkov, E.M. Gazeeva, L.V. Grigorenko, G. Kaminski, S.A. Krupko, B. Mauey, I.A. Muzalevskii, E.Yu. Nikolskii, Yu.L. Parfenova, A. Serikov, S.I. Sidorchuk, R.S. Slepnev, P.G. Sharov, G.M. Ter-Akopian, R. Wolski, B. Zalewski

2020

Published: Exotic Nuclei: Proceedings of the International Symposium on Exotic Nuclei. – 2020. – 395-402.

13. Monte Carlo study of the systematic errors in the measurement of the ${}^{\text{N}}\text{-15}$ ions scattering from ${}^{\text{B}}\text{-11}$

Authors: I. Satyshev, S. Belogurov, M. Kozlov, B. Mauey, E. Ovcharenko, V. Schetinin

2019

Published: AIP Conference Proceedings, 2019, DOI: 10.1063/1.5130109

14. Measurement and analysis of ${}^{10}\text{B} + {}^{12}\text{C}$ elastic scattering at energy of 41.3 MeV

Authors: N. Burtebayev, M. Nassurlla, A. Sabidolda, S.B. Sakuta, A.A. Karakhodzhaev, F. Ergashev, K. Rusek, E. Piasecki, A. Trzcinska, M. Wolinska-Cichocka-Cichocka, B. Mauey, D. Janseitov, B. Zalewski, Sh. Hamada, K.W. Kemper, Awad A. Ibraheem

2019

Published: International Journal of Modern Physics E. – 2019. – V. 28(4) DOI: 10.1142/S0218301319500289

15. Scattering of ${}^{15}\text{N}$ Ions by ${}^{10}\text{B}$, ${}^{11}\text{B}$ Nuclei at the Energy of 43 MeV

Authors: N. Burtebayev, N. Amangeldi, D. Alimov, Zh. Kerimkulov, B. Mauey, M. Nassurlla, Ye. Kok, S.B. Sakuta, S.V. Artemov, A.A. Karakhodzhaev, K. Rusek, E. Piasecki, A. Trzcinska, M. Wolinska-Cichocka-Cichocka, I. Bostosun, M. Karakoc, Sh. Hamada, S.Yu. Torilov, B. Zalewski

2018

Published: Acta Physica Polonica B, Proceedings Supplement. – 2018. – . 11. – №. 1. – . 99-107.

16. Elastic Scattering of ${}^{15}\text{N}$ Ions by ${}^{16}\text{O}$ at the Energy 11.59 MeV

Authors: N. Burtebayev, S.B. Sakuta, A.K. Morzabayev, Zh. Kerimkulov, N. Amangeldi, A.A. Temerbayev, B. Mauey, Ye. Kok, A. Aimaganbetov

2017

Published: Acta Phys. Polon. – 2017. – . 48. – №. 3. – . 495.

17. Study of the elastic scattering of ${}^{20}\text{Ne}$ on ${}^{16}\text{O}$ nuclei at energy below the Coulomb barrier

Authors: N. Burtebayev, J.T. Burtebayeva, T. Zholdybayev, M. Nassurlla, Zh. Kerimkulov, N. Amangeldi, Ye. Kok, B. Mauey, A.S. Aimaganbetov, C. Spitaleri, S.B. Sakuta

2017

Published: Memorie della Societa Astronomica Italiana-Journal of the Italian Astronomical Society. – 2017. – . 424-427.

CONFERENCES AND PRESENTATIONS

Investigation of deuteron scattering from ^{13}C at low energy

XXXVI Mazurian Lakes Conference on Physics | September 1-7, 2019, Piaski, Poland

Experimental Measurements and theoretical analysis for ^{15}N ions scattering from $^{10,11}\text{B}$ nuclei at 43 MeV

XXIV Nuclear Physics Workshop | September 20-24, 2017, Lublin, Poland

Commissioning of the ACCULINNA-2 fragment separator and its first day experiments

The XXI International Scientific Conference of Young Scientists and Specialists | AYSS-2017, Dubna, Russia

Elastic scattering ^{14}N from ^{16}O nuclei

XLVIII International Conference "Student and scientific- Technical Progress " | 15-20 April. 2010 Novosibirsk, Russia

Methods of applying differential equations to physics problems | 27-28 November, 2008

The first republican student scientific-practical conference on mathematics and informatics | Astana, Kazakhstan

HONORS AND AWARDS

Winner of the Presidential Scholarship

According to the highest GPA above 3.8 among students ENU

2009-2010

Astana, Kazakhstan

Diploma 3th degree

The 3rd place at the first republican student scientific-practical conference

27-28 November-2008

Astana, Kazakhstan

Holder of a gold medal

For graduating from high school with the highest score

June 2006

Akhmola region, Kazakhstan

Diploma 3th degree of the Physics Olympiad

The third place among 9th grades in the Kazakhstan Regional Physics Olympiad

January 2004

Akhmola region, Kazakhstan

Gold medalist of the Physics Olympiad

Winner of the first place among 8th grades in the Mongolian Regional Physics Olympiad

January 2003

Bayan-Olgii, Mongolia

Silver medalist of the Physics Olympiad

Winner of the second place among 7th graders in the Mongolian Regional Physics Olympiad Bayan-Olgii, Mongolia

January 2002

TEACHING EXPERIENCE

Senior lecturer

International Department of Nuclear Physics, New Materials and Technologies

September 2014 – 2016

ENU, Nur-Sultan, Kazakhstan

- Nuclear electronics
- Field theory
- Experimental nuclear physics
- Molecular physics and thermodynamics
- Nucleus model

Lecturer

International Department of Nuclear Physics, New Materials and Technologies

September 2012 – July 2014

ENU, Nur-Sultan, Kazakhstan

- Nuclear physics at low energies
- Vector and tensor analysis
- Mechanics
- Nuclear radiation

High School Physics' teacher

Astana High School №48

September 2008- June 2009

Astana, Kazakhstan

SKILLS

Languages: Kazakh (Native), English (B1), Russian (B1), Mongol (B1)

Programming: C++, ROOT, GEANT4, MATLAB, FRESKO

Document Creation: Microsoft Office Suite, LaTeX, OriginLab