

National Academy of Sciences of Azerbaijan

report of the department of Scientific-Technical Information for 2018

In the reporting period, the department carried out the following works:

More than 300 scientific works papers published in local and foreign journals, books, monographs, dissertations of the staff of the Institute of Mathematics and Mechanics in the form of maps were placed in the catalog. Information about 19 dissertations (6 doctoral and 13 candidate) received by the department was placed in the catalog of author's abstracts. During the reporting period, the department carried out certain proof-reading work for the publication in Moscow of the 2nd edition of Z.I. Khalilov's "Fundamentals of functional analysis" (Maharramova Khumar, Agakishiyeva Narmina, Musaeva Tarana).

In accordance with the decision of IMM ANAS from May 18 to 27, 2018, professor Ramiz Aslanov was on a business trip to the Kazan Federal University (Kazan) and in Moscow at the publishing house "URSS". The purpose of the trip was to participate in the "Regional Conference of the International Association of ISATT, the International Forum on Teacher Education IFTE - 2018, the Meeting of the Coordinating Council for Education" Education and Pedagogical Sciences "of the Federal Educational and Methodological Association in Higher Education" which took place from May 18 to 24 2018 on the basis of the Kazan Federal University. During the conference, he participated in various sections at meetings of the Council for the Mathematical and Educational System.

May 19, 2018 he participated in the "Regional Conference of the International Association ISATT" which was held on the basis of the Kazan Federal University. On May 20, 2018 he was at the Yelabuzhin Institute of the KFU (Tatarstan) where he got acquainted with the scientific and technical base and history of the institute, and also met with the director of the Institute, Meson E.Ye. and with the assistant professor of the same institute N.F. Gilmulin. (specialist in the history of mathematics). He was amazed by the modern equipment and laboratory of the institute. This small town with a population of 75,000 people is a city of museums. He took the opportunity to get acquainted with these museums.

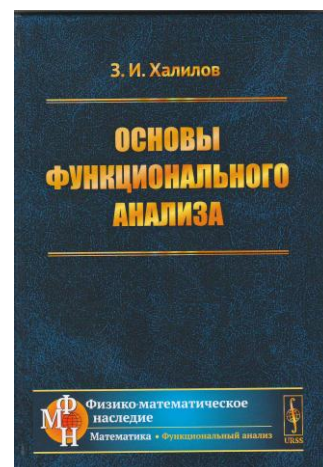
On May 21, 2018 he participated in the meeting of the Coordinating Council for Education "Education and Pedagogical Sciences" and the Federal Educational and Methodological Association in Higher Education ", which were held on the basis of the Kazan Federal University where he met and held a number of meetings with the following

scientists: Rector of the Moscow State Pedagogical University, Corresponding Member of the Russian Academy of Education, Professor Lubkov A.V., (Moscow, Russia), Pro-Rector of the Moscow State Pedagogical University, Director of the Institute of Mathematics and Informatics, Professor S.Karakozov. (Moscow, Russia), pro-rector of Moscow State Pedagogical University, Professor Trubina L.A. (Moscow, Russia), head of the department of educational and methodical work of the same institute, associate professor Yegorova E.B. Rector of the Moscow State Pedagogical University, Corresponding Member of the Russian Academy of Education, Professor Lubkov A.V. He expressed his positive opinion on concluding a memorandum with the Institute of Mathematics and Mechanics of ANAS.

After the Coordination Council on May 21, 2018 at 15:30 he met with the head of the Department of Mathematical Analysis of the Kazan Federal University, Corresponding Member of the Academy of Sciences of Tatarstan, Doctor of Physical and Mathematical Sciences, Professor SR Nasirov and took part in the protection of the course works of the Department of Mathematical Analysis. On the same day he presented the book "Predecessors of Modern Mathematics of Azerbaijan" (authors M.D. Mardanov, R.M. Aslanov) in N.I. Lobachevsky scientific library.

On May 22, 2018, he took part in the opening of the plenary session of the forum and on the same day he addressed in the 43 sections of the forum with a report on the theme: "TASKS FOR ARITHMETICS OF AZERBAIJAN SCHOOLS AT THE LATE OF THE XIX CENTURY AND EARLY XX CENTURY" (authors M.D. Mardanov, R. M. Aslanov) (Heads of the section professor of the University of Texas, M.A. Choshanov (USA), head of the department of KFU, prof. L.R. Shakirova (Kazan, Russia) in the program p. 59). A broad discussion was held around the report, noting the relevance of the topic, studying the history of mathematics was deemed necessary. On May 23, 2018, he spoke in Section 5 (Head of Section A.M. Gaifutdinov of State Pedagogical University of Naberezhnye Chelny (Naberezhnye Chelny, Russia), in the program pages 68-69)) with a report "TASKS FOR ARITHMETICS OF AZERBAIJAN SCHOOLS AT THE LATE OF THE XIX CENTURY AND EARLY XX CENTURY" (authors M.D. Mardanov, R.M. Aslanov). A broad discussion was held around the report, noting the relevance of the topic, studying the history of mathematics was deemed necessary. On May 23, 2018, he spoke in Section 5 (Head of Section AM Gaifutdinov State Pedagogical University of Naberezhnye Chelny (Naberezhnye Chelny, Russia), in the program pages 68-69)) with a report "TASKS FOR ARITHMETICS OF AZERBAIJAN SCHOOLS AT THE LATE OF THE XIX CENTURY AND EARLY XX CENTURY" (authors M.D. Mardanov, R.M. Aslanov). The report was adopted and discussed at a very high level. The report was adopted and discussed at a very high level. The organizing committee of

the forum presented him with a certificate on the basis of the report and for the active participation in the conference. On the same day he met with the head of the chair of educational technologies and information systems in philology of the KFU, doctor of pedagogical sciences, Assoc. L.L. Salekhova and together with her discussed their joint work, the results of which will be presented in the form of an article. On May 24-27, 2018, he completed the work on the collection of relevant documents for the delivery of Z.I. Khalilov's book "Fundamentals of Functional Analysis" published in Moscow in the publishing house "URSS" according to the corresponding decision of the Institute of Mathematics and Mechanics of ANAS. On May 26, 2018 he met with Professor of Moscow State University, Doctor of Physical and Mathematical Sciences N.V. Shamolin and discussed with him some methodological and practical aspects of teaching aids on differential equations. On May 27, 2018 all copies of the book of Z.I. Khalilov "Fundamentals of Functional Analysis" Was delivered from Moscow to Baku at the Institute of Mathematics and Mechanics. According to the decision of the Academic Council of the Institute (Minutes No. 5 of May 29, 2018), a register was drawn up. Book of Z.I. Khalilov "Fundamentals of functional analysis" was donated to libraries and academic mathematicians. At the end of the 2nd edition of Z.I. Khalilov book "Fundamentals of functional analysis" is provides a detailed article "The role of Zaida Ismail oglu Khalilov in the development of mathematical science" about the life and activities of Z.I. Khalilov p. 232- 246.



On October 14-28, 2018, the Moscow City Pedagogical University (Moscow State Pedagogical University) and the Russian Peoples' Friendship University (RUDN) jointly held an international scientific conference on Informatization of Sustainable Education-2018 (ICE2018) in Moscow, Russia.

Professor Ramiz Aslanov, the head of the department "Scientific and technical information" of the Institute of Mathematics and Mechanics of ANAS attended the conference.

Professor Ramiz Aslanov made a report on the theme "Establishment of model of teaching methods of mathematical analysis with application of electronic education".

Then R. Aslanov participated in the VIII International Scientific-Practical Conference "Mathematics Education in Higher and Secondary Schools, Innovation in Higher and Secondary Schools" held in Kazan, Kazan, on October 17-22, 2018.

Professor Ramiz Aslanov made a report on "Magistracy and master dissertations" (co-author correspondent member of ANAS, professor Misir Mardanov).

It should be noted that the scientist was a member of the program committee of both conferences.

He participated at the XXXVII International Scientific Seminar on Mathematics and Informatics Teachers of the Universities and Pedagogical Higher Schools "Russian Mathematical Education in the XXI Century" held in Naberezhnye Chelny State Pedagogical University (NChSPU) in Naberezhnye Chelny (Republic Tatarstan) on 22-28 October 2018 at the meeting with the report "Mathematician, writer, composer - Felix Hausdorff" (150th anniversary of his birth).

During the visit Prof. Ramiz Aslanov read lectures on "Oriental stars in the VII - XV centuries", "About magistracy" and "Differential equations" for students of Physics, Mathematics and Informatics faculties of the University on the basis of (NChSPU) proposal.

Articles of RM Aslanov for the reporting period:

1. **Р.М. Асланов** Сочетание традиционного электронного обучения при преподавании математического анализа в педагогическом вузе
Материалы II Международной научно-практической конференции
Инновационные технологии в медиаобразовании (29, 30 мая 2017 г.),
Санкт-Петербург СПбГИКиТ , 2018, стр. 98-103(соавтор Игнатова О.Г.)
(г. Санкт-Петербург, РФ)
2. **Р.М. Асланов.** Первая женщина, получившая докторскую степень.
Материалы Международной научно-практической конференции
студентов, аспирантов и преподавателей «Современные проблемы
подготовки специалистов для предприятия атомной отрасли» 10
февраля 2018, Димитровградский инженерно-технологический
институт –филиал «МИФИ», стр. .. (в печати) (соавтор Рустамов В.Д.)
(г. Димитровград, РФ).
3. **Р.М. Асланов.** Великая женщина- Лиза Мейтнер (к 140 летию со дня
рождения)/ Современный учитель дисциплин естественно научного
цикла: сборник материалов Международной научно-практической
конференции (г. Ишим; 16 февраля 2018)- Ишим: Изд-во ИПИ им. П.П.
Ершова (филиал Тюм ГУ) 2018, 280 стр. , стр. 28-37 (соавтор В.Д.
Рустамов). (г.Ишим, РФ)

4. **Р.М. Асланов.** Великий учитель, математик, реформатор Михаил Григорьевич Фихтенгольц (к 130-летию со дня рождения) Труды Международной научно-практической конференции 15-16 марта, 2018г. Профессионализм педагога: Сущность, содержание, перспективы развития . 2018, часть 2 , стр. 395 – 403 (соавтор Марданов М.Д.). (г. Москва, РФ)
5. **Р.М. Асланов.** Замечательный математик, физик, педагог, энциклопедист – Жан Батист Фурье (к 250 – летию со дня рождения) Сборник статей XIV Международной научно-практической конференции «Артёмовские чтения», Современное образование: научные подходы, опыт, проблемы, перспективы. (г. Пенза 18-19 апреля 2018) Пенза. Изд-во Пензенский государственный университет, 2018, стр. 131- 139. (г. Пенза, РФ).
6. **Р.М. Асланов.** Задачники по арифметике школ Азербайджана конца XIX начала XX века. /Сборник научных трудов IV Международного форума по педагогическому образованию и региональной конференции ISATT, часть 2, Казань 2018, стр. 12- 18 (соавтор Марданов М.Д.) (г. Казань, РФ)
7. Р.М. Асланов Роль Заида Исмаил оглы Халилова в развитии математической науки/ Z.İ. Xəlilov «Основы функционального анализа» Москва, изд-во URSS, 2018, стр. 232- 246.(həmmüəliflər Mərdanov M.C. Əliyev A.R.)
8. **Р.М. Асланов.** Эпоха просвещения: Мария Гаэтана Аньези . Вестник Елецкого государственного университета. – вып. 39: Серия «Педагогика».(История и теория математического образования).- Елец: ЕГУ им. И.А. Бунина, 2018 – 171 стр. стр. 14-21 (г. Елец, РФ).
9. **Р.М. Асланов.** Заид Исмаил оглы Халилов - основоположник современной математической школы в Азербайджане АМЕА-nin xəbərlər məcmuəsi – mart 2018, cild 5 №.1, səh. 46-52 (соавтор М.Д.Марданов).
10. **Р.М. Асланов.** Математик, механик, инженер - ПОНСЕЛЕ Жан Виктор (к 230 летию со дня рождения). Материалы IV Международной научно-практической конференции «Актуальные проблемы математики и информатики: теория, методика, практика» 19-21 апреля 2018 года, Елецкий государственный университет им. И.А. Бунина // Научно-методический журнал «CONTINUUM. Математика. Информатика. Образование». Елец. 2018. Выпуск № 3, с. 51-58. (соавтор В.Д. Рустамов) (г. Елец, РФ).
11. **Р.М. Асланов.** Электронное обучение и его роль в преподавании математических дисциплин. Сборник статей участников Международной научно-практической конференции «Развивающий потенциал образовательных WEB - технологий», 17-18 мая 2018,

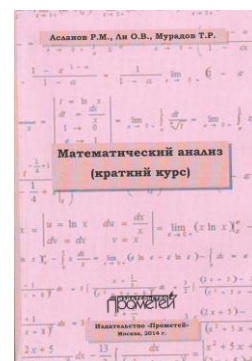
- Арзамас, Арзамаский филиал Национального исследовательского Нижегородского государственного университета им. Н.И. Лобачевского 2018. стр.243-246 (соавтор О.Г. Игнатова) – (**plenary məruzə**) (г. Арзамас, РФ)
12. **Р.М. Асланов.** Электронное обучение вчера, сегодня, завтра. Проблемы и перспективы/ Научно-методический журнал «CONTINUUM. Математика. Информатика. Образование». Елец. 2018. Выпуск № 1, стр. 28 -34(соавтор Игнатова О.Г.) (г. Елец, РФ),
13. **Р.М. Асланов.** Замечательный математик, физик, педагог, энциклопедист – Жан Батист Жозеф Фурье (к 250 – летию со дня рождения)/Современное образование: научные подходы, опыт, проблемы, перспективы. Сборник статей XIV Международной научно-практической конференции «Артёмовские чтения», г. Пенза, ПГУ, 18-19 апреля 2018 г.- 410 стр.- стр.131- 139 (г. Пенза, РФ)
14. **R.M Aslanov.** Dəyərli monoqrafiya./ AMEA-nın Elm və Nəyat elmi-populyar jurnal.- №.2 (465), 2018.- s.82-83.(həmmüəllif Mərdanov M.C.).
15. **Р.М. Асланов.** Любовь к математике – Соломон Григорьевич Михлин (к 110-летию со дня рождения)/Проблемы теории и практики обучения математике: сборник научных работ, представленных на Международную научную конференцию «71 Герценовские чтения» - СПб: Изд-во РГПУ им. А.И. Герцена, 2018.- 183 с., стр.10-16 (соавтор Марданов М.Д., Гасанова Т.Х.) (г. Санкт-Петербург, РФ)
16. **Р.М. Асланов.** Построение модели методики преподавания курса математического анализа с применением электронного обучения./Информатизация непрерывного образования – 2018 (ICE-2018): материалы Международной научной конференции. Москва, 14-17 октября 2018 г.: в 2 т.- Москва: РУДН, 2018 -648 с., стр.534-537 (соавтор Игнатова О.Г.)(Москва, РФ)
17. **Р.М. Асланов.** Магистратура и магистерские диссертации./Математическое образование в школе и вузе: инновации в информационном пространстве (MATHEDU'2018): материалы VIII Международной научно-практической конференция. (Казань, 17-21 октября, 2018г.)/ отв.ред. Л.Р. Шакирова.- Казань: издательство Казан.ун-та, 2018, 368 стр. , стр. 321-327. (соавтор Марданов М.Д.) (Казань, РФ)
18. **Р.М. Асланов.** Математик, писатель, композитор – Феликс Хаусдорф (150 лет со дня рождения)/Российское математическое образование в XXI веке: Материалы XXXVII Международного научного семинара преподавателей математики и информатики университетов и педагогических вузов. – Набережные Челны: издательство ООО «ПринтЭкспресс Плюс», 2018.-352 с., стр.18-25 (**plenary məruzə**) (Набережные Челны, РФ)

19. Р. М. Асланов Достижение метапредметных образовательных результатов при изучении темы «Подобие треугольников» с применением межпредметных связей / Учебный эксперимент в образовании . Научно-методический журнал. «Мордовский государственный педагогический институт имени М. Е. Евсевьева», г. Саранск - 2018, № 3 (87).- стр. 35-39 (соавтор Игнатова О.Г.) (Саранск, РФ)

By the decree of the Presidium of ANAS from February 14, 2018, Professor RM Aslanov was awarded with the prize and the diploma of the Presidium of ANAS for scientific and popular scientific works devoted to effective work on popularization of scientific knowledge and achievements, including popularization of mathematical sciences.

Listed below are books by R.M. Aslanov were presented at the 38th LIVRE PARIS bookshop, which was held from March 16 to 19, 2018 in Paris (France):

1. Асланов Р.М., Ли О.В. Мурадов Т.Р. Математический анализ (краткий курс) М.: Издательство «Прометей», 2014, 284 стр.
2. Асланов Р.М., Нижников А.И., Муханова А.А., Муханов С.А., Мурадов Т.Р. Высшая математика (задачник). Книга из 5 частей: Часть V.I М.: Издательство ООО «Прондо», 2017, 328 стр.



Head of the department Aslanov R.M. was elected a member of the editorial board of the next journals

1. "Bulletin of the Syktyvkar University. Series 1. Mathematics. Mechanics. Computer science". (Syktyvkar, Russian Federation)
2. Scientific and methodical journal "CONTINUUM. Maths. Computer science. Education". Yelets State University. I.A. Bunin. (Yelets, Russian Federation)
3. "Bulletin of the Yelets State University" them. I.A. Bunin. –Pedagogy series. (History and theory of mathematical education) (Yelets, Russian Federation).

In the reporting period, he gave a tip to the publication of the textbook "Linear Algebra and Mathematical Analysis" (authors: doct.phys.math.sci.M.D. Sabzaliev,

Ph.D., Assoc. prof. Sabzalieva). Head of the department Aslanov took part in the meetings of the Academic Council of the Institute, general institute seminars, and also seminars of the department "Optimal control".

During the reporting period, all the planned works in the department were fully implemented.

**Head of the department of
scientific and technical information**

prof. R.M. Aslanov