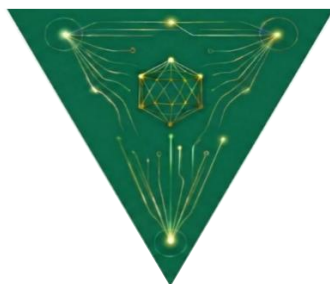




The First Congress of
Mathematicians of
Kazakhstan

ХАЛЫҚАРАЛЫҚ ҒЫЛЫМИ КОНФЕРЕНЦИЯ
МЕЖДУНАРОДНАЯ НАУЧНАЯ КОНФЕРЕНЦИЯ
INTERNATIONAL SCIENTIFIC CONFERENCE



«КЕРІ ЖӘНЕ ҚИСЫНДЫ ЕМЕС ЕСЕПТЕР: ТЕОРИЯ,
ҚОЛДАНЫСТАР ЖӘНЕ ЖАСАНДЫ ИНТЕЛЛЕКТ»

«ОБРАТНЫЕ И НЕКОРРЕКТНЫЕ ЗАДАЧИ:
ТЕОРИЯ, ПРИЛОЖЕНИЯ И ИИ»

«INVERSE AND ILL-POSED PROBLEMS:
THEORY, APPLICATIONS AND AI»

Shymkent
April 03-07, 2026

Institute of Information and Computational Technologies
National Engineering Academy of the Republic of Kazakhstan
The Institute of Mathematics and Mathematical Modeling, Kazakhstan
Sobolev Institute of Mathematics SB RAS, Russia
International Mathematical Center SB RAS, Russia
International Foundation of Inverse Problems, Kazakhstan

ХАЛЫҚАРАЛЫҚ ҒЫЛЫМИ КОНФЕРЕНЦИЯ
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**БАҒДАРЛАМА
ПРОГРАММА
PROGRAM**

**Shymkent
April 03-07, 2026**

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International Scientific Conference “Inverse and Ill-Posed Problems: Theory, Applications and AI”

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PROGRAM
International Scientific Conference
“Inverse and Ill-Posed Problems: Theory, Applications and AI”
Location: M. Auezov South Kazakhstan University, Shymkent

<i>Saturday, April 04, 2026</i>	
PLENARY SESSION	
MODERATORS:	
SERGEY KABANIKHIN – Corresponding Member of the RAS, Chief Researcher, Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia	
МАКТАГАЛИ БЕКТЕМЕССОВ – Academician of NEA RK, General Director of the Institute of Information and Computational Technologies	
14:30-14:45	<p>Uniqueness for an inverse problem of determining order and temporal factor of the source for subdiffusion equation</p> <p>RAVSHAN ASHUROV Professor, V. I. Romanovskiy Institute of Mathematics, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan</p>
14:45-15:00	<p>Mathematical foundations of ultrasound tomography</p> <p>SERGEY KABANIKHIN Corresponding Member of the RAS, Sobolev Institute of Mathematics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia</p>
15:00-15:15	<p>Нелокальная обратная краевая задача для параболического уравнения с дробной производной по времени</p> <p>ELVIN AZIZBEKOV Professor, Academy of Public Administration under the President of the Republic of Azerbaijan, Baku, Azerbaijan</p>
15:15-15:30	<p>ANN supporting determination of transient Heat Transfer Coefficients</p> <p>IMRE FELDE Professor, Óbuda University, Budapest, Hungary</p>
15:30-15:45	<p>Неоднозначная разрешимость смешанной задачи для вырождающихся трехмерных гипербола-эллиптических уравнений в моделях глиомы</p> <p>МАКТАГАЛИ БЕКТЕМЕССОВ Professor, Institute of Information and Computational Technologies, Almaty, Kazakhstan</p>
15:45-16:00	<p>Прямые и обратные задачи для многомерного уравнения смешанного типа высокого порядка</p> <p>SIROJIDDIN JAMALOV Professor, Institute of Mathematics, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan</p>
16:00-16:15	<p>Multidimensional Markov Modeling of Investment Effects in the Kazakhstan Economy</p> <p>SEYIT KERIMKHULLE Professor, L.N. Gumilyov Eurasian National University, Astana, Kazakhstan</p>

16:15-16:30	Псевдогиперболические уравнения для обратных задач SERIK AITZHANOV Associate Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan
16:30-17:00	COFFEE BREAK
Section 1 Moderators – associate professor, Syrym Kasenov PhD student, Rysbiyke Asanova	
17:00-17:10	Система неклассических интегральных уравнений Вольтерра 1- рода TURDUMAMAT BEKESHOV Associate Professor, Osh State University, Osh, Kyrgyzstan
17:10-17:20	О существовании обобщенного решения вырождающегося дифференциального уравнения в частных производных 1-порядка AIBEK TOKTORBAEV Associate Professor, Osh State University, Osh, Kyrgyzstan
17:20-17:30	Optimal control problem for a fifth-order partial differential equation МАНКАМБЕК БАБАЕВ PhD, Tashkent State Transport University, Tashkent, Uzbekistan
17:30-17:40	Comparative Analysis and Practical Guidelines for Solving Time-Fractional Hyperbolic Equations with Memory ZHANARS ABDIRAMANOV PhD, Abai Kazakh National Pedagogical University, Almaty, Kazakhstan
17:40-17:50	An Ill-Posed Inverse Problem for Hidden Cognitive Dynamics from Locomotion Time Data MARK SIGALOVSKY KBTU / Al-Farabi Kazakh National University, Almaty, Kazakhstan
17:50-18:00	Математические и машинно-обучающие методы выявления стресс-подобных физиологических состояний по данным носимых сенсоров НҮРАСЫЛ ЖОЛДАС Al-Farabi Kazakh National University, Almaty, Kazakhstan
18:00-18:10	Численное решение обратной задачи термоакустики с применением QFT и градиентного метода RYSBIYKE ASANOVA M. Auezov South Kazakhstan University, Shymkent, Kazakhstan
18:10-18:20	Бірөлшемді Пеннес теңдеуінің тура есебін сандық әдіспен шешу SYRYM KASENOV Associate Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan
18:20-18:30	DISCUSSION. PHOTOSHOOT.

Section 2

Moderators – PhD, Zholaman Bektemessov PhD student, Ulpan Sotsialova	
17:00- 17:10	<p>Сравнительный анализ эффективности точечного и распределенного теплового воздействия на неоднородную биологическую ткань</p> <p>PARDAZ KOZHOBKOVA PhD, Osh State University, Osh, Kyrgyzstan</p>
17:10- 17:20	<p>Inverse Problems for the Burgers Equation in a Degenerate Domain</p> <p>MADI YERGALIYEV PhD, Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan</p>
17:20- 17:30	<p>An inverse problem for pseudoparabolic equation with memory term and damping</p> <p>AIDOS SHAKIR PhD, Al-Farabi Kazakh National University, Almaty, Kazakhstan</p>
17:30- 17:40	<p>Применение преобразования Лапласа к обратной задаче теплопроводности в области с подвижной границей</p> <p>YURIY SHPADI PhD, Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan</p>
17:40- 17:50	<p>Nonlinear Haller Equation of Moisture Transfer: Difference Problem, a Priori Estimates, Convergence of Difference Problem, Inverse Problem</p> <p>NAZERKE RYSBAYEVA Kazakh-British Technical University, Almaty, Kazakhstan</p>
17:50- 18:00	<p>Оценки устойчивости дискретных аналогов задач интегральной геометрии</p> <p>SAULE MELDEBEKOVA International Kazakh-Turkish University named after H.A. Yasawi, Turkestan, Kazakhstan</p>
18:00- 18:10	<p>Вариационный метод оптимизации для решения двумерной обратной магнитотеллурической задачи</p> <p>MOLDIR DAULETBAY M. Auezov South Kazakhstan University, Shymkent, Kazakhstan</p>
18:10- 18:20	<p>Обратная задача в моделировании роста опухоли: применение модели Гомпертца</p> <p>BEKZAT SULTAN Al-Farabi Kazakh National University, Almaty, Kazakhstan</p>
18:10- 18:20	DISCUSSION. PHOTOSHOOT.

Monday, April 06, 2026

PLENARY SESSION

MODERATORS:

SERGEY KABANIKHIN – Corresponding Member of the RAS, Chief Researcher, Sobolev Institute of Mathematics SB RAS, Novosibirsk, Russia

МАКТАГАЛИ БЕКТЕМЕСОВ – Academician of NEA RK, General Director of the Institute of Information and Computational Technologies

14:30-14:45	Коэффициентные обратные задачи временного типа для параболических и квазипараболических уравнений ALEXANDER KOZHANOV Professor, Sobolev Institute of Mathematics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
14:45-15:00	Poisson-Type Equations for Thermoelastic Strains with Boundary Conditions UMIDJON DJUMAYOZOV Professor, Samarkand Branch of Tashkent University of Information Technologies, Samarkand, Uzbekistan
15:00-15:15	Source identification in an integral-type nonlocal problem for a reverse parabolic equation CHARYYAR ASHYRALYYEV Professor, Bahçeşehir University, Istanbul, Turkey
15:15-15:30	Ill-posed continuation problems of mathematical physics MAXIM SHISHLENIN Professor, Sobolev Institute of Mathematics, Novosibirsk, Russia
15:30-15:45	Алгоритм численного решения обратной задачи нахождения правой части для двумерного эллиптического уравнения MURAT SULTANOV Professor, Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan
15:45-16:00	Использование метода дополнительного аргумента для решения обратной задачи AIZHARKYN ASHIRBEVA Professor, Osh Technological University named after M.M. Adyshev, Osh, Kyrgyzstan
16:00-16:15	Inverse source problems for Navier-Stokes equations KHONATBEK KHOMPYSH Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan
16:15-16:30	Identification parameter problem for a family evolution equations with functional term ANAR ASSANOVA Professor, Institute of Mathematics and Mathematical Modeling, Almaty, Kazakhstan
16:30-17:00	COFFEE BREAK

Section 1

Moderators – associate professor, Syrym Kasenov
PhD student, Rysbiyke Asanova

17:00-17:10	О применимости методов Векуа и Отельбаева к краевым задачам для полигармонических уравнений MUZAFFAR SABIRZHANOV PhD, Osh State University, Osh, Kyrgyzstan
17:10-17:20	Численное решение прямой и обратной задач оптимального контроля эпидемий с учетом возрастных особенностей TATYANA ZVONAREVA Sirius University of Science and Technology, Sirius, Russia
17:20-17:30	Обобщенная задача Геллерстедта с аналогом условия Франкля DILSHOD MAMATMUMINOV Termez State University, Termez, Uzbekistan
17:30-17:40	Екі камералы медицина-биологиялық кері есебі үшін сәйкестендіруді зерттеу MARZHAN DOSHCHANOVA M. Auezov South Kazakhstan University, Shymkent, Kazakhstan
17:40-17:50	Сызықты емес реакция-диффузия тендеуі үшін тура есепті шешудің сандық әдістері ZHANAR MAKSUMOVA M. Auezov South Kazakhstan University, Shymkent, Kazakhstan
17:50-18:00	Нығыздалған белсендірілген көмірге көмірқышқыл газының адсорбциясын модельдеу DANA ORAZALY Al-Farabi Kazakh National University, Almaty, Kazakhstan
18:00-18:10	Итерационный метод Ландвебера для обратной задачи акустики SYRYM KASENOV Associate Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan
18:10-18:20	DISCUSSION. PHOTOSHOOT.

Section 2

Moderators – PhD, Zholaman Bektemessov
PhD student, Ulpan Sotsialova

17:00-17:10	FWA based approach for solution complex IHCP problems IMRE FELDE Professor, Obuda University, Budapest, Hungary
17:10-17:20	Обратная задача для интегро-дифференциального уравнения в частных производных четвертого порядка со степенными особенностями GULZAT KARIMOVA Osh Technological University named after M.M. Adyshev, Osh, Kyrgyzstan

17:20- 17:30	О единственности решения задачи Трикоми для одного класса уравнений смешанного типа с различными порядками вырождения. FAYZULLA MIRZAYEV Termez State University, Termez, Uzbekistan
17:30- 17:40	Inverse Boundary Problem for a Linear Pseudoparabolic Equation MURAT MUKHAMBETKALIYEV Al-Farabi Kazakh National University, Almaty, Kazakhstan
17:40- 17:50	Задачи идентификации внешнего воздействия комбинированного вида для гиперболических уравнений первого порядка KORKEM ZHALGASOVA Institute of Mathematics and Mathematical Modeling, Shymkent, Kazakhstan
17:50- 18:00	Heat polynomials method for solving inverse Cauchy-Stefan problems ZHANGIR RAYEV Nazarbayev University, Astana, Kazakhstan
18:00- 18:10	Ісік өсуінің логистикалық моделіндегі параметрлерді бағалау және регуляризациялау ULPAN SOTSIALOVA Abai Kazakh National Pedagogical University, Almaty, Kazakhstan
18:10- 18:20	DISCUSSION. PHOTOSHOOT.

CONTACTS

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The conference is held within the framework of the First Congress of Mathematicians of Kazakhstan and is organized as part of its scientific program.