



26 – 30 APRIL 2026, YEREVAN, ARMENIA

INTERNATIONAL WORKSHOP ON OPERATOR THEORY AND HARMONIC ANALYSIS

OTHA SPRING 2026 <https://otha.sfedu.ru/workshop-otha-spring-2026>, otha.conference@gmail.com

SCIENTIFIC PROGRAM & SCHEDULE OF EVENTS

MONDAY 27.04.2026 Location: Institute of Mathematics, 24/5 Marshal Baghramyan Avenue			
10:00-12:40	Plenary Session (First/ground floor, auditorium 1)		
10:00-10:10	Opening Ceremony		Chairmen – Alexey Karapetyants & Rafik Aramyan
10:10-10:40	Nazaikinskii Vladimir	Homogenization of wave problems in nonperiodic media	
10:45-11:15	Iosevich Alex	From harmonic analysis to industrial data sciences: techniques and ideas	
11:15-11:35	Coffee break		
11:35-12:05	D'Onofrio Luigi	Integrability results for solutions to equations of n -Laplacian type	Chairman – Protasov Vladimir
12:10-12:40	Karapetyants Alexey	Hadamard-Bergman operators: an overview of recent results	

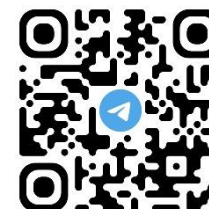
12:40-12:50	Conference photo: please gather at the entrance of the Institute for the conference photo		
12:50-14:10	Lunch (American University cafeteria, 40 Marshal Baghramyan Avenue)		

14:10-16:35	Plenary Session (First/ground floor, auditorium 1)		
14:10-14:40	Protasov Vladimir	Multivariate approximation by fractal splines	Chairman – Kusraeva Zalina
14:45-15:15	Kravchenko Vladislav	Nonlinear Fourier transform for soliton signal processing	
15:15-15:30	Coffee break		
15:30-16:00	Orelma Heikki	Weighted L^2 -spaces and orthogonal polynomials for the Akin-Leutwiler operator	Chairman – Kravchenko Vladislav
16:05-16:35	Muravnik Andrey	Cauchy problem for hyperbolic differential-difference equations: odd-dimensional case	
16:40-17:10	Kusraeva Zalina	On kernel representation of orthogonally additive polynomials	



OTHA Spring-2026
WhatsApp group

OTHA research community
Telegram group



TUESDAY 28.04.2026 Location: Institute of Mathematics, 24/5 Marshal Baghramyan Avenue			
10:00-13:10	Plenary Session (First/ground floor, auditorium 1)		
10:00-10:30	Serra-Capizzano Stefano	Low-rank matrix-sequences vs the GLH class and the GLT *-algebras	Chairman – Turilova Ekaterina
10:35-11:05	Burnaev Evgeny	Mutual Information Estimation via Bridge Matching based on Diffusion processes	
11:10-11:45	Aramyan Rafik	Weighted Funk transforms	
11:45-12:05	Coffee break		
12:05-12:35	Skopina Maria	Orthogonal wavelet bases on generalized Vilenkin groups	Chairman – Iosevich Alex
12:40-13:10	Turilova Ekaterina	Continuous Preservers of Range Orthogonality between C*-Algebras	

13:10-14:50	Lunch (American University cafeteria, 40 Marshal Baghramyan Avenue)		
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14:50-17:10	Plenary Session (First/ground floor, auditorium 1)		
14:50-15:20	Golubnichiy Kirill	A Carleman semi-discrete convexification method combined with deep learning for electrical impedance tomography	Chairman – Karapetyants Mikhail
15:25-15:55	Khachatryan Aghavard	On the solvability of several nonlinear integral equations arising in the natural sciences	
15:55-16:05	Coffee break		
16:05-16:35	Karapetyants Mikhail	Non-convex optimization problems with unbounded damping	Chairman – Serra-Capizzano Stefano
16:40-17:10	Aceto Lidia	Rational approximations of fractional powers operators applied to preconditioning	

OTHA workshops are part of the OTHA conference/workshops/seminars/editorial activities <https://otha.sfedu.ru/>, <http://msrn.sfedu.ru/>

Organizers:

Alexey Karapetyants (co-chair)
Rafik Aramyan (co-chair)

Elena Vasilyeva-Bagler
Tatiana Andreeva

Speakers / Participants:

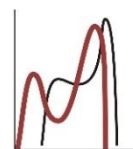
Vladimir Nazaikinskii (Russia), Alexey Karapetyants (Russia), Rafik Aramyan (Armenia), Helmuth Malonek (Portugal), Zhirayr Avetisyan (Armenia), Vladislav Kravchenko (Mexico), Evgeny Burnaev (Russia), Mikhail Karapetyants (Austria), Maria Skopina (Russia), Zalina Kusraeva (Russia), Heikki Orelma (Finland), Stefano Serra-Capizzano (Italy), Aghavard Khachatryan (Armenia), Luigi D'Onofrio (Italy), Lidia Aceto (Italy), Vladimir Protasov (Italy), Ekaterina Turilova (Russia), Alex Iosevich (USA), Andrey Muravnik (Russia), Armen Vagharshakyan (Armenia), Emanuel Guariglia (Italy), Kirill Golubnichiy (USA), Kira Khmel'nitskaya (Mexico), Georgy Karapetyants (Russia), Mark Lawrence (Georgia), Tatiana Golea (Germany, Springer Nature).



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**OTHA Research Group
(Mathematical Sciences
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