



EDITORIAL TO THE SPECIAL ISSUE “OTHA 2023: ADVANCES ON OPERATOR THEORY AND HARMONIC ANALYSIS” OF THE JOURNAL OF MATHEMATICAL SCIENCES (SERIES A)

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Published online: 13 June 2024

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This Special Issue consists of selected papers from conferences and workshops in the OTHA¹ series, which has become a traditional series that brings together researchers from around the world. Below, we provide some information about these events. Many thanks to all the international partners and participants for creating such a great research and social atmosphere at the events by providing excellent presentations and participating in event-related editorial activities.

From August 20 to August 25, the international scientific conference “OTHA-2023: Modern methods, problems and applications of operator theory and harmonic analysis” was held at the Southern Federal University. There were participants from various regions of Russia, as well as from Belarus, Armenia, Serbia, UAE, India, Cameroon, Iran, Ecuador, Italy, Georgia, Tajikistan, and other countries. During the conference, there were parallel sessions: functional analysis, operator theory, and approximation theory; differential equations and mathematical physics; probabilistic-analytical models and methods; and special session dedicated to the memory of Professor S.B. Klimentov. (Fig. 1).

Conference plenary lecturers: Alexey Karapetyants (Russia/Rostov-on-Don), Adolf Mirotin (Belarus), Krishnan Narayanan (India), Alexander Bufetov (Russia/Moscow), Andrey Muravnik (Russia/Moscow), Francesco Mainardi (Italy), Fedorovsky Konstantin (Russia/Moscow), Apushkinskaya Daria (Russia/Moscow), Rossovsky Leonid (Russia/Moscow), Smorodina Natalia (Russia/St. Petersburg), Soldatov Alexander (Russia/Moscow), Gliklikh Yuri (Russia/Voronezh), Yurko Vyacheslav (Russia/Saratov), Arsenovic Milos (Serbia), Jerbashyan Armen (Armenia), Skopina Maria (Russia/St. Petersburg), Ilolov Mamadsho (Tajikistan), Kusraeva Zalina (Russia/Vladikavkaz), Vagharshakyan Armen (Armenia), Khoury Suheil (UAE). The lectures can be accessed by the link: <https://www.youtube.com/channel/UCMC1h55SjWn5hkRShZ7fhEw>.

From December 17 to 21, the international conference “Workshop OTHA Fall 2023” was held at the Sirius Educational Center in Sochi. Leading experts and young scientists from Moscow, Rostov-on-Don, Kazan, Vladikavkaz, Armenia, Belarus, Mexico, UAE, Uzbekistan, and Georgia took part in the conference.

The event is part of a series of international scientific conferences “Modern methods and problems of operator theory and harmonic analysis, and their applications” (OTHA (Operator Theory and Harmonic Analysis)). Workshops have been held since 2020 twice a year—in spring and autumn in the format of invited lectures by leading scientists from Russia and abroad (the OTHA Spring was dedicated to the anniversary of the Armenian Academy of Sciences, and the papers formed a separate jubilee issue; see <https://doi.org/10.1007/s10958-023-06583-y>) (Fig. 2).

Invited speakers: A.N. Karapetyants (Rostov-on-Don), A.R. Mirotin (Belarus), Roland Duduchava (Georgia), V.V. Kravchenko (Mexico), Suhil Khoury (UAE), V.D. Stepanov (Moscow), T.A. Shaposhnikova (Moscow), A.N. Shiryayev (Moscow),

¹ OTHA Conferences/Spring/Fall workshops are part of the OTHA conference series: <https://otha.sfedu.ru/>, <http://msrn.sfedu.ru/>.

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Fig. 1 OTHA-2023: Modern methods, problems and applications of operator theory and harmonic analysis”, August 20-25, 2023, Southern Federal University



Fig. 2 Workshop OTHA Fall 2023 at the Sirius Educational Center in Sochi, December 17-21, 2023

I.V.Pavlov (Rostov-on-Don), A.G.Sergeev (Moscow), Isroil Ikromov (Uzbekistan), A.G. Kamalyan (Armenia), A.G. Kusraev (Vladikavkaz), Z.A. Kusraeva (Rostov-on-Don), E.P. Ushakova (Moscow), M.I. Karyakin (Rostov-on-Don) -Don), E.A. Turilova (Kazan), O.G. Avsyankin (Rostov-on-Don). The lectures can be accessed by the link: <https://www.youtube.com/playlist?list=PLQtz5DkorEV3ZTyzOV0T1e2xUjKVBxlhk>.

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