



Editorial to the Special Issue “OTHA 2024: Advances on Operator Theory and Harmonic Analysis” of the Journal of Mathematical Sciences (Series A)

Alexey Karapetyants¹

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This Special Issue consists of selected papers from conferences and workshops of the OTHA(*) series in 2024, which has become a traditional series that brings together researchers from many countries.

From August 25 to August 30, the international scientific conference “OTHA-2024: 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, Algeria, Tajikistan, Pakistan, Uzbekistan, and other countries. Conference sessions: Functional analysis, operator theory and approximation theory; Differential equations and mathematical physics; Probabilistic-analytical models and methods; as well as special sessions: Modern problems of hydrodynamics (dedicated to the 90th anniversary of the birth of V.I. Yudovich) and Modern problems of solid mechanics (dedicated to the 90th anniversary of the birth of Yu.A. Ustinov).



Conference plenary speakers: Karapetyants Alexey (Russia/Rostov-on-Don), Bufetov Alexander (Russia/Moscow), Deb-bouche Amar (Algeria), Erusalimskiy Iakov (Russia/Rostov-on-Don), Gevorgyan Pavel (Russia/Moscow), Gliklikh Yuri

✉ Alexey Karapetyants
karapetyants@gmail.com

¹ Editor-in-Chief Journal of Mathematical Sciences, Series A, Rostov-on-Don, Russia

(Russia/Voronezh), Ilov Mamadsho (Tajikistan), Kusraev Anatoly (Russia/Vladikavkaz), Lyalinov Mikhail (Russia/St. Petersburg), Mirotin Adolf (Belarus), Andrey Muravnik (Russia/Moscow), Kusraeva Zalina (Russia/Vladikavkaz), Morgulis Andrey (Russia/Rostov-on-Don), Rossovsky Leonid (Russia/Moscow), Shaposhnikov Stanislav (Russia/Moscow), Skopina Maria (Russia/St. Petersburg), Suslina Tatiana (Russia/St. Petersburg), Vagharshakyan Armen (Armenia). The lectures can be accessed by the link: <https://www.youtube.com/playlist?list=PLQtz5DkorEV32Fq7JGegrI96G3KHkcb72>

From December 15 to 19, the international conference “Workshop OTHA Fall 2024” was held at the Sirius educational center in Sochi. Researchers and young scientists from Moscow, St. Petersburg, Rostov-on-Don, Kazan, Vladikavkaz, Algeria, Belarus, Spain, Mexico, China, Pakistan, Palestine, UAE, and Serbia took part in the conference.



Invited speakers: Karapetyants Alexey (Russia/Rostov-on-Don), Mirotin Adolf (Belarus), Shkalikov Andrey (Russia/Moscow), Bezrodnykh Sergey (Russia/Moscow), Vsemirnov Maxim (Russia/St. Petersburg), Kusraev Anatoly (Russia/Vladikavkaz), León-Saavedra Fernando (Spain), Garcia-Pacheco Francisco Javier (Spain), Turilova Ekaterina (Russia/Kazan), Avsyankin Oleg (Russia/Rostov-on-Don), Li Changpin (China), Arsenović Miloš (Serbia), Nazarov Alexander (Russia/St. Petersburg), Debbouche Amar (Algeria), Grudsky Sergey (Mexico), Karyakin Mikhail (Russia/Rostov-on-Don), Kusraeva Zalina (Russia/Vladikavkaz), Khury Suheil (UAE). The lectures can be accessed by the link: https://www.youtube.com/playlist?list=PLQtz5DkorEV02_46qCXj-6WETFcN4cYET

Many thanks to all the international participants for creating such a great research and social atmosphere at the events by providing excellent presentations and for participation in event-related editorial activities.

Alexey Karapetyants.
Editor-in-Chief, Journal of Mathematical Sciences, Series A.

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