



INTERNATIONAL CONFERENCE
ON GENERALIZED FUNCTIONS GF2026

BOOK OF ABSTRACTS

23–27 AUGUST 2026
OHRID, N. MACEDONIA



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Organized by

Society for Mathematical Analysis and Applications SMAA
Skopje, North Macedonia

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Preface

It is our great pleasure to welcome you to the *International Conference on Generalized Functions (GF2026)*, held from 23–27 August 2026 in Ohrid, North Macedonia. The conference continues the long-standing tradition of international scientific meetings promoted by the *International Association for Generalized Functions (IAGF)*, bringing together researchers working in generalized functions and their numerous applications.

GF2026 provides a forum for presenting recent developments, exchanging ideas, and fostering new scientific collaborations across a broad spectrum of topics. The conference covers, among others, distributions, ultradistributions, hyperfunctions and algebras of generalized functions; linear and nonlinear differential equations and stochastic analysis; pseudodifferential operators and microlocal analysis; geometric problems and nonlinear distributional geometry; harmonic analysis, time-frequency analysis and function spaces; functional analytic methods; and applications in mathematical modeling and mathematical physics.

This Book of Abstracts collects the contributions of the plenary and contributed speakers participating in GF2026. It reflects the diversity and vitality of current research in the theory of generalized functions and related areas. We hope that the presentations gathered here will stimulate fruitful discussions, inspire new ideas, and encourage further collaborations among researchers from different mathematical communities.

We are especially pleased to host GF2026 in Ohrid, a city renowned for its exceptional cultural heritage and natural beauty. Situated on the shores of Lake Ohrid, one of Europe's oldest and most remarkable lakes, Ohrid provides a unique setting in which scientific exchange and collaboration can be combined with an inspiring cultural and social experience.

We would like to express our sincere gratitude to all plenary speakers, contributing authors, participants, and members of the scientific and organizing committees for their valuable contributions to GF2026. We are also deeply grateful to the supporting institutions and organizations whose assistance has made this conference possible.

We hope that GF2026 will be a scientifically stimulating and memorable event for all participants and that the discussions initiated in Ohrid will lead to lasting collaborations and further developments in the field of generalized functions.

We wish you an inspiring, productive, and enjoyable conference.

*The Organizing Committee of
GF2026*

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Asymptotic analysis of distributions is a very attractive research field that took the attention of different authors. In the recent years it has become common to analyze the asymptotic behavior of distributions through the asymptotic behavior of some generalized integral transforms and frames.

Some Abelian- and Tauberian-type results for the quasiasymptotics of tempered distributions through the asymptotic behavior of generalized directional short-time Fourier transform and localized frames are presented. Also, several Abelian- and Tauberian-type results for the quasiasymptotics of Lizorkin distributions, polynomial multiplication of Lizorkin distributions and m -th derivative Lizorkin distributions in terms of their generalized Stockwell and wavelet transforms are given.

Some asymptotic results for both transforms of the m -th derivative of Dirac delta distribution are given. The talk is based on papers [1, 2, 3, 4, 5, 6].

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