

НОЕМВРИЙСКИ ДНИ НА МАТЕМАТИКАТА И ИНФОРМАТИКАТА
29-30 ноември 2024, Велико Търново

NOVEMBER DAYS OF MATHEMATICS AND INFORMATICS
November 29-30, 2024, Veliko Tarnovo

КНИЖКА С АБСТРАКТИ / BOOK OF ABSTRACTS

Кликнете върху името на докладчика за бърз достъп до абстракта. / Click on the speaker's name to go directly to the abstract.

November 29, 2024

9:30-10:00 [Регистрация](#) / Registration
10:00-10:20 [Откриване](#) / Opening of the conference

[Публични лекции](#) / Public Lectures

10:20-11:00 *Teodor Kalushkov* (Veliko Tarnovo University)
11:00-11:20 [Кафе пауза](#) / Coffee Break
11:20-12:00 *Valentin Bakoev* (Veliko Tarnovo University)
12:00-13:30 [Обяд](#) / Lunch break

[Секция „Дискретни структури“](#) / Session “Discrete Structures”

13:30-13:50 *Stela Bancheva* (IMI, Bulgarian Academy of Sciences)
13:50-14:10 *Antoaneta Tsvetanova* (IMI, Bulgarian Academy of Sciences)
14:10-14:30 *Mariya Dzhumalieva-Stoeva* (Veliko Tarnovo University)
14:30-14:50 *Stefka Bouyuklieva* (Veliko Tarnovo University)
14:50-15:10 *Ivan Chipchakov* (IMI, Bulgarian Academy of Sciences)
15:10-15:30 [Кафе пауза](#) / Coffee Break

[Секция „Математически анализ, геометрия и приложения“](#) / Session “Mathematical analysis, Geometry, and Applications”

15:30-15:50 *Johann Davidov* (IMI, Bulgarian Academy of Sciences)
15:50-16:10 *Cornelia-Livia Bejan* (Technical University of Iasi, Romania)
16:10-16:30 *Şemsi EKEN MERİÇ* (Mersin University, Türkiye)
16:30-16:50 *Galia Nakova* (Veliko Tarnovo University)
16:50-17:10 *Malika Ait Ben Haddou* (Moulay Ismail University, Meknes, Morocco)
17:10-17:30 *Milen Hristov* (Veliko Tarnovo University)

[Секция „Обучението по математика и информатика“](#) / Session “Education in Mathematics and Informatics”

17:30-17:50 *Rossen Angelov* (Veliko Tarnovo University)
17:50-18:10 *Violeta Mitkova* (Veliko Tarnovo University)
19:30 [Официална вечеря](#) / Official Dinner

November 30, 2024

Секция „Информатика и информационни технологии“ / Session “Computer Science”

9:30- 9:50 *Dushan Bikov* (Goce Delcev University of Stip)

9:50-10:10 *Marian Ileana* (POLITEHNICA Bucharest, Pitesti University Center)

10:10-10:30 *Plamenna Petrova* (Veliko Tarnovo University)

10:30-10:50 *Hristo Hristov* (IMI, Bulgarian Academy of Sciences)

11:50-11:10 **Кафе пауза** / Coffee Break

Специална сесия „Обобщени функции и фрейми“ / Special session „Generalized functions and frames“

11:10-11:30 *Diana T. Stoeva* (University of Vienna)

11:30-11:50 *Jerielle Malonzo* (University of Vienna)

11:50-12:10 *Jasmina Veta Buralieva* (Goce Delcev University of Stip)

12:10-12:30 *Astrit Ferizi* (University of Prishtina)

12:30-14:00 **Обяд** / Lunch break

Специална сесия „Вероятности, статистика и математическо моделиране“ / Special Session “Probability, statistics and mathematical modelling”

14:00-14:20 *Mladen Savov* (Sofia University)

14:20-14:40 *Pavlina Jordanova* (Shumen University)

14:40-15:00 *Hristo Sariev* (Sofia University)

15:00-15:20 *Martin Minchev* (Sofia University)

15:20-15:40 **Кафе пауза** / Coffee Break

15:40-16:00 *Peter Rashkov* (IMI, Bulgarian Academy of Sciences)

16:00-16:20 *Dragomir Nedelchev* (IMI, Bulgarian Academy of Sciences)

16:20-16:40 *Nikolay Nikolov* (IMI, Bulgarian Academy of Sciences)

16:40-17:00 **Закриване на конференцията** / Closing the conference

Asymptotic analysis of generalized functions through some generalized integral transforms and frames

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Generalized asymptotics is an important research subject that has attracted attention of many authors in diverse areas. In recent years it has become common to analyze the asymptotic behavior of distributions through the asymptotic behavior of some generalized integral transform and its inverse. Another way to consider the asymptotic behavior of distributions is also through 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 through the asymptotic behavior of generalized Stockwell and wavelet transforms are given. The talk is based on papers [1, 2, 3, 4].

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References

- [1] Buralieva, J.V., Saneva, K.H-V., Atanasova, S. (2019). Directional short-time Fourier transform and quasi-asymptotics of distributions. *Functional Analysis and Its Applications*, 53. pp. 3-10.
- [2] Saneva, K.H-V., Atanasova, S., Buralieva, J.V. (2020). Tauberian theorems for the Stockwell transform of Lizorkin distributions. *Appl. Anal.*
- [3] Buralieva, J.V. (2023). Asymptotic Relations for the Distributional Stockwell and Wavelet Transforms. *Functional Analysis and its Application*, 57 (1). pp. 29-39.
- [4] Buralieva, J.V., Stoeva, D.T., Saneva, K.HV., Atanasova, S. (2024). Asymptotic Analysis for Generalized Functions Using Frames. In: Chatzakou, M., Ruzhansky, M., Stoeva, D. (eds) *Women in Analysis and PDE*, in the series “Research Perspectives Ghent Analysis and PDE Center” Birkhäuser, Cham.