

**10<sup>th</sup> Jubilee International Conference  
of FMNS - 2023**



***14 - 18.06.2023, Blagoevgrad, BULGARIA***

**BOOK OF ABSTRACTS**

Patronized by  
Prof. Borislav Yurukov  
Rector of the South-West University

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of FMNS 2023**

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## **Conference Program**

### **Registration (14.06.2023)**

13:00 – 18:30

University Conference Centre “Bachinovo”

### **Opening Ceremony (15.06.2023)**

10:00 – 10:30

Central Auditorium of Conference Center

### **Plenary Lectures (15.06.2023)**

Central Auditorium of Conference Center

Chairman: Assoc. Prof. Lidia Sakelarieva, PhD

**10:30 – 11:15**

**Prof. Boštjan Genorio - University of Ljubljana, Slovenia**

**“Electrosynthesis of Hydrogen Peroxide using Graphene derivatives”**

**11:15 – 12:00**

**Acad. Oleg Mushkarov - Bulgarian Academy of Science, Bulgaria**

**“History and the present state of the well-known Sendov hypothesis  
for critical distribution points of a polynomial with complex  
coefficients”**

### **Plenary Lectures (16.06.2023)**

Central Auditorium of Conference Center

Chairman: Assoc. Prof. Lidia Sakelarieva, PhD

**10:00 – 10:45**

**Dr. Manfred Schütze - Otto-von-Guericke University Magdeburg,  
Germany**

**"Which model is best for me? - Some examples from urban water  
engineering"**

**10:45 – 11:30**

**Assoc. Prof. Tatyana Kutsarova – Bulgarian Academy of Science,  
Bulgaria**

**“Hexaferrites – single phase magneto-electric multiferroics”**

**Section sessions: 15 - 16.06.2023**

13:30 - 18:00

University Conference Center "Bachinovo"

**Poster sessions (Physics): 15.06.2023**

14:30 – 15:30

**Poster sessions (all other sections): 16.06.2023**

18:00 – 19:00

**Special sessions**

**"STEAM Education - Reality and Perspectives"**

**16.06.2023**

14:00 – 17:00

**Conference Hall**

**Workshop of project № KP-06-H67/6 – 12.12.2022**

**"Bioelectrochemical systems for organic pollutants  
remediation"**

**16.06.2023**

9:00 - 18:00

**Hall 3**

**Welcome party**

**18:00 – 15.06.2023**

University Conference Center "Bachinovo"

**Official dinner**

**19:30 – 16.06.2023**

University Conference Center "Bachinovo"

**Social program**

**17.06.2023**

## **Abelian-and Tauberian-type results for the generalized Stockwell and wavelet transforms**

**Jasmina Veta Buralieva**

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**Abstract:** Tauberian-type results characterizing the quasiasymptotic behavior of polynomial multiplication of Lizorkin distributions in terms of their Stockwell transform are obtained. Some Abelian-type results relating the quasiasymptotic behavior and quasiasymptotic boundedness of Lizorkin distributions to the asymptotic behavior of their Stockwell transform are given. Several Abelian-type results for the generalized wavelet transform are also presented.

**Keywords:** Stockwell transform, wavelet transform, distributions, quasiasimptotics, Abelian-and Tauberian-type results.