

## **Combinatorics**

10:00-10:20 Topalova, S. Zhelezova, Parallelization strategies in classification of KTS(v)

10:20-10:40 I. Hetman, T. Baicheva, S. Topalova, Classification of  $(v,k,1)$  cyclic difference families with small parameters

10:40-11:00 M. Pashinska-Gadzheva, I. Bouyukliev, Parallelization approaches for generating elementary combinatorial objects

11:00 – 11:30 Coffee break

## **Coding Theory**

11:30-11:50 T. Alexandrova, N. Manev, H. Kostadinov, Application of Integer Codes in QAM Modulation Schemes

11:50-12:10 M. Bajalan, P. Boyvalenkov, F. Ozbudak, Some structural properties of mixed orthogonal arrays and their irredundancy

## **Big Data, HPC**

14:30-14:50 E. Atanassov, Computational Optimization of low-discrepancy sequences using GPUs

14:50-15:10 Y. Borissov, M. Markov, Information-Theoretic Limits for Additive Ciphers with Linear-Code Plaintext Sources and Nonlinear Inversion Front Layers

15:10-15:30 A. Tchorbadjieff, Digital mapping of heavy metals