



Национален център за високопроизводителни и разпределени пресмятания

HPC for Mathematics and Applications Работен семинар, 09.10.2024 Институт по математика и информатика при БАН

Coding Theory

10:00-10:20 S. Bouyuklieva, **I. Bouyukliev**, V. Bakoev, M. Pashinska-Gadzheva, Generating m-ary Gray codes

10:20-10:40 T. Alexandrova, N. Manev, **H. Kostadinov**, Integer codes for t^2 -TQAM modulation

10:40-11:00 **M. Pashinska-Gadzheva**, I. Bouyukliev, About an optimized library for computing weight characteristics of linear codes over finite fields

11:00 – 11:30 Coffee break

Combinatorics

11:30-11:50 Svetlana Topalova, **Stela Zhelezova**, On parallelisms of $PG(3,4)$ with automorphisms of even order

11:50-12:10 **T. Baicheva**, S. Topalova, Classification of cyclic $2-(85,4,1)$ and $2-(88,4,1)$ designs

Big Data, HPC

14:30-14:50 **E. Atanassov**, Quantum computing simulations on the supercomputer HEMUS

14:50-15:10 **Y. Borissov**, M. Markov, Computing the weight distribution of the binary Reed-Muller codes of small parameters

15:10-15:30 **S. Yordanov**, Grid search optimization on the supercomputer for a neural network classifier

15:30-15:50 **P. Kazakov**, Z. Liu, Fuzzy search on OBZCPs

15:30-15:50 **Ts. Tsokov**, H. Kostadinov, Dynamic network-aware container allocation in Cloud/Fog computing with mobile nodes