



Sunday, May 28

Monday, May 29

Tuesday, May 30

Wednesday, May 31

08.55-09.00

Opening

09.00-10.00

Chair: Peter Boyvalenkov

Oleg PIKHURKO, *Lower bounds via the hard-core sphere model*

Chair: Oleg Musin

Edward B. SAFF, *Universal lower bounds for discrete potentials of spherical codes and designs*

Chair: Geno Nikolov

Szilard REVESZ, *Delsarte's extremal problem and packing on locally compact abelian groups*

Chair: Alexander Barg

Masoud ZARGAR (on-line), *New upper bounds on spherical codes and sphere packing densities*

10.00-10.30

Coffee Break

10.30-11.00

Matthew de COURCY-IRELAND, *Six-dimensional sphere packing and linear programming*

11.00-11.30

Danila CHERKASHIN, *On the chromatic number of 2-dimensional spheres*

Grigory KABATIANSKY, *Convex polyhedra with Boolean cube vertices which are far apart from each other*

Peter GRABNER, *Upper and lower bounds for Riesz and Green energies on projective spaces*

Oleg MUSIN, *The SDP and LP bounds for spherical codes using their distance distribution*

13.00-13.30

Chair: Edward Saff

Yufei ZHAO (on-line), *Equiangular lines and eigenvalue multiplicities*

13.30-14.00

Chair: Oleg Pikhurko

Alexander BARG, *The size of optimal binary codes with 2, 3, and 4 distances*

Ilya VOROBYEV, *Correcting one error in channels with feedback*

Chair: Grigory Kabatiansky

Damir FERIZOVIĆ, *Uniform distribution via projected lattices: from point sets to point sequences*

Jordi MARZO, *Discrepancy and covering radius of random point configurations on the sphere*

Chair: Szilard Revesz

Hiroshi NOZAKI, *Uniqueness of the D_4 root system as tight antipodal spherical $\{10, 4, 2\}$ -design*

Pedro R. LÓPEZ-GÓMEZ, *A family of well-distributed points on the sphere with antipodal symmetry*

14.00-14.30

Coffee Break

14.30-15.00

Nikolaj GLAZUNOV, *Optimal packing of Minkowski balls and domains, and applications*

15.00-15.30

Alexander POLYANSKII, *Polynomial plank problems*

Ivan LANDJEV, *W -admissible partitions and MacWilliams-type identities for linear codes over finite Frobenius rings*

Ryan MATZKE, *Second-order asymptotics of maximal Riesz polarization on the sphere*

Sphere packings, coverings, and spherical codes



17.00

Welcome reception

SPCSC2023

19.00

Official Dinner