





The 8th Workshop on **«Algebraic Graph Theory and its Applications»**

March 1-4, 2023

Novosibirsk, GMT+7 time zone

The main goal of the Workshop is to embrace recent results in developing Algebraic Graph Theory and its Applications. We are interested in algebraic, spectral and structural characterisation of highly regular graphs, investigating graphs defined on groups, constructing new graphs, codes and designs.

TIMETABLE

March 1

15:00	Chi Hoi Yip	Erdös-Ko-Rado theorem in Peisert-type graphs
16:00	Rhys Evans	Tightness of the weight-distribution bound for polar and affine polar graphs
17:00	Jack Koolen	On sesqui-regular graphs with a fixed smallest eigenvalue and large valency
18:00	Sergey Goryainov	Extremal Peisert-type graphs without strict-EKR property

March 2

15:00	Vladislav Kabanov	On strongly regular graphs with regular decomposition
16:00	Denis Krotov	On the coset-graph construction of distance-regular graphs
16:30	Ivan Mogilnykh	Nowhere-zero eigenflow problems for distance-regular graphs
17:00	Alexandr Valyuzhenich	Optimal functions with spectral constraints in hypercubes

March 3

15:00	Ilia Ponomarenko	On the Weisfeiler algorithm of depth 1 stabilization
16:00	Akihiro Munemasa	Weakly distance-regular circulants
17:00	Suogang Gao	Further study on the distance-regular graphs with classical parameters with b<-1
18:00	Grigory Ryabov	Divisible design graphs from Higmanian association schemes

March 4

15.00	viktor Pansnin	On characterization by Gruenberg-Kegel graph of finite simple exceptional
		groups of Lie type
16:00	Kristina Ilenko	On finite groups with the Grunberg-Kegel graph as in the group $G_2(3)$
16:30	Nikolay Minigulov	On finite groups whose Gruenberg-Kegel graphs are isomorphic to the paw
17:00	Lev Nechitailo	On recognition of groups with small prime spectrum by Gruenberg-Kegel graph
17:30	Vsevolod Afanasev	On some 3-generated 6-transposition groups
18:00	Yong Yang	A characterization of the prime graphs of solvable groups



Wiktor Danchin

Zoom link, list of participants and other details — on the workshop's website http://mca.nsu.ru/agt8