

Workshop
“Analysis and Geometry on Discrete Spaces ”

October 7 - 11, 2024

organized by

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Time measurement: CEST

• **Monday, October 7**

08:30 - 09:00	<i>Arrival and Self-Registration</i>
09:00 - 09:05	<i>Welcome by Stefan Hartmann</i>
09:05 - 10:05	Rocco Servedio <i>Sparsifying suprema of Gaussian processes</i>
10:05 - 11:00	<i>Coffee break</i>
11:00 - 12:00	Joris Roos <i>Isoperimetric and Poincaré inequalities on the Hamming cube</i>
12:00 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Tuomas Hytönen <i>A geometric dichotomy for the discrete Hilbert transform</i>
15:00 - 16:00	Polona Durcik <i>Quantitative norm convergence of triple ergodic averages for commuting transformations</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:30	Li Gao <i>Log-Sobolev inequalities for matrix-valued functions</i>
from 17:30 on	<i>Get-Together</i>

• **Tuesday, October 8**

09:15 - 10:15	Vjekoslav Kovač <i>Sharp estimates for Gowers norms on discrete cubes</i>
10:15 - 11:00	<i>Group Photo and Coffee break</i>
11:00 - 12:00	Justin Salez <i>Entropy and curvature of Markov chains on metric spaces</i>
12:00 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Yuval Filmus <i>Approximate polymorphisms</i>
15:00 - 16:00	David Beltran <i>From Kakeya–Brascamp–Lieb inequalities to localised variants of multilinear Fourier restriction</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:30	José Ramón Madrid Padilla <i>On convolution inequalities and applications</i>

• **Wednesday, October 9**

09:15 - 10:15	Quanhua Xu <i>Vector-valued Littlewood–Paley–Stein theory for semigroups</i>
10:15 - 11:00	<i>Coffee break</i>
11:00 - 12:00	Florent Baudier <i>Bi-Lipschitz and coarse embeddings of diamond graphs</i>
12:00 - 14:00	<i>Lunch break</i>

• **Thursday, October 10**

09:15 - 10:15	Haonan Zhang <i>On the Eldan–Gross Inequality</i>
10:15 - 11:00	<i>Coffee break</i>
11:00 - 12:00	Stefanie Petermichl <i>Banach space geometry and the dyadic shift</i>
12:00 - 14:00	<i>Lunch break</i>
14:00 - 15:00	Michael Dymond <i>Lipschitz mappings of discrete metric spaces</i>
15:00 - 16:00	Lenka Slaviková <i>Dimension-free Sobolev-type embeddings in the Gauss space</i>
16:00 - 16:30	<i>Coffee break</i>
16:30 - 17:30	Błażej Wróbel <i>Dimension-free estimates for low degree functions on the Hamming cube</i>

• **Friday, October 11**

09:15 - 10:15	Pandelis Dodos <i>Random graphs and nonlinear spectral gaps</i>
10:15 - 11:00	<i>Coffee break</i>
11:00 - 12:00	Guy Kindler <i>A polynomial Bogolyubov-type result for the special linear group</i>
12:00 - 14:00	<i>Lunch break</i>