"School on PAC Learning and Boolean Harmonic Analysis"

September 16 - 20, 2024

organized by
**Sergey Bobkov, Polona Durcik, Alexandros Eskenazis, Irina Holmes Fay,
Paata Ivanisvili, Dor Minzer, and Alexander Volberg**

Time measurement: CEST

- **Monday, September 16**

08:30 - 09:00	*Arrival and Registration*
09:00 - 09:05	*Welcome by HIM Director Christoph Thiele*
09:05 - 10:15	**Noam Lifshitz** *Inverse results for isoperimetric inequalities I*
10:15 - 10:45	*coffee break*
10:45 - 12:00	**Noam Lifshitz** *Inverse results for isoperimetric inequalities II*
12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Alex Iosevich** *Signal recovery, restriction theory, and applications I*
15:15 - 16:00	**Cristian González-Riquelme** *Sharp Fourier restriction over finite fields*
16:00 - 16:30	*Coffee break*
16:30 - 17:45	**Yuval Filmus** *Structure theorems in Boolean Harmonic Analysis I*
afterwards	*Get-Together*

- **Tuesday, September 17**

09:00 - 10:15	**Noam Lifshitz** *Inverse results for isoperimetric inequalities III*
10:15 - 10:45	*coffee break and group photo*
10:45 - 12:00	**Noam Lifshitz** *Inverse results for isoperimetric inequalities IV*

12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Alex Iosevich** *Signal recovery, restriction theory, and applications II*
15:15 - 16:00	**Joseph Slote** *Pseudorandomness and Fourier growth*
16:00 - 16:30	*Coffee break*
16:30 - 17:45	**Yuval Filmus** *Structure theorems in Boolean Harmonic Analysis II*

- **Wednesday, September 18**

09:00 - 10:15	**Yuval Filmus** *Structure theorems in Boolean Harmonic Analysis III*
10:15 - 10:45	*coffee break*
10:45 - 12:00	**Alexandros Eskenazis** *Functional inequalities in Metric Geometry I*
12:00 - 14:00	*Lunch break*
14:00 - 15:15	**Alexander Volberg** *Quantum and classical low degree learning via a dimension-free Remez inequality I*
15:15 - 16:00	**Lars Becker** *On the Fourier weight of $\mathbb{F}_2$ polynomials*
16:00 - 16:30	*Coffee break*
16:30 - 17:45	**Alexandros Eskenazis** *Functional inequalities in Metric Geometry II*

- **Thursday, September 19**

09:00 - 10:15	**Alexandros Eskenazis** *Functional inequalities in Metric Geometry III*
10:15 - 10:45	*coffee break*
10:45 - 12:00	**Yuval Filmus** *Structure theorems in Boolean Harmonic Analysis IV*
12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Alex Iosevich** *Signal recovery, restriction theory, and applications III*
15:15 - 16:00	**Francisco Escudero Gutiérrez** *A cb-Bohnenblust–Hille inequality with constant one and its applications in Learning Theory*
16:00 - 16:30	*Coffee break*

16:30 - 17:45	**Alexander Volberg** *Quantum and classical low degree learning via a dimension-free Remez inequality II*

- **Friday, September 20**

09:00 - 10:15	**Alexandros Eskenazis** *Functional inequalities in Metric Geometry IV*
10:15 - 10:45	*coffee break*
10:45 - 12:00	**Alexander Volberg** *Quantum and classical low degree learning via a dimension-free Remez inequality III*
12:00 - 14:00	*Lunch break*
14:00 - 15:00	**Alex Iosevich** *Signal recovery, restriction theory, and applications IV*
15:15 - 16:00	**Miriam Gordin** *Vector-valued concentration on the symmetric group*
16:00 - 16:30	*Coffee break*