

Workshop on
“Structures in Banach Spaces”

March 17 - 21, 2025

organized by

Antonio Aviles (U Murcia), Vera Fischer (U of Vienna), Grzegorz Plebanek (U of Wroclaw),
Damian Sobota (U of Vienna)

• **Monday, March 17th, 2025**

09:00 – 09:30 **Registration & Welcome**

09:30 – 10:15 **Marián Fabian (Czech Academy of Sciences, Prague)**

Asplund and weak Asplund properties of Banach spaces and beyond

10:30 – 11:15 **Stevo Todorčević (U Toronto)**

Compact sets of Baire class one functions

11:15 – 11:45 **Coffee Break**

11:45 – 12:05 **Jose Ansorena (U Rioja)**

Uniqueness of unconditional basis in Banach spaces: overview and recent advances.

12:15 – 12:35 **Olav Nygaard Dovland (U of Agder)**

Diameter 2 properties, a survey

12:35 – 14:45 **Lunch Break**

14:45 – 15:30 **María Japón (U of Seville)**

Some applications of Boolean algebras and the Stone representation theorem to fixed point theory

15:30 – 16:00 **Coffee Break**

16:00 – 16:20 **Christian Bargetz (U of Innsbruck)**

On extremal nonexpansive mappings

16:25 – 16:45 **Sebastián Tapia García (TU Wien)**

Horofunction extension of metric spaces and Banach spaces.

• **Tuesday, March 18th, 2025**

09:00 – 09:45 **Alessandro Vignati (U Paris Cité)**

The weak Extension Principle and its coarse version

10:00 – 10:45 **Niels Laustsen (Lancaster U)**

The Baernstein and Schreier spaces, and operators on them

10:45 – 11:15 **Coffee Break**

11:15 – 11:35 **Henrik Wirzenius (Czech Academy of Sciences, Prague)**

Closed subideals of bounded operators

11:45 – 12:05 **Anna Pelczar-Barwacz (Jagiellonian U, Krakow)**

A criterion for 2^c operator ideals on Banach spaces

12:15 – 12:35 **Miguel Ángel Ruiz Risueño (UCLM, Albacete)**
Operators with dense range and in Banach spaces with a separable quotient

12:35 – 12:45 **Group Photo**

12:45 – 14:45 **Lunch Break**

14:45 – 15:30 **Piotr Koszmider (IMPAN, Warsaw)**
On subspaces of indecomposable Banach spaces

15:30 – 16:00 **Coffee Break**

16:00 – 16:20 **Wiesław Kubiś (Academy of Sciences, Prague)**
Generic operators

16:25 – 16:45 **Thomas Speckhofer (JKU, Linz)**
Dimension dependence of factorization problems

• **Wednesday, March 19th, 2025**

09:00 – 09:45 **Abraham Rueda Zoca (U of Granada)**
Space of vector valued Lipschitz functions and the Daugavet property

10:00 – 10:45 **Eva Pernecká (CTU Prague)**
De Leeuw representation of functionals in Lipschitz-free spaces

10:45 – 11:15 **Coffee Break**

11:15 – 11:35 **Juan Guerrero Viu (U Zaragoza)**
Projective Tensor Products: The Pursuit of Norm-Attainment

11:45 – 12:05 **Jerzy Kakol (Adam Mickiewicz U in Poznan)**
The Grothendieck property for spaces $Lip_0(M)$ of Lipschitz functions

12:15 – 12:35 **Jose Orihuela (U Murcia)**
An old problem of Joram Lindenstrauss

12:35 – 14:45 **Lunch Break**

14:45 – 15:05 **Jesús Castillo (UNEX, Badajoz)**
Somehow off-limits: The 3-space problem for Isomorphic Polyhedrality

15:15 – 15:35 **Tommaso Russo (U of Innsbruck)**
Discrete subgroups of Banach spaces and lattice tilings

15:45 – 16:05 **Miguel García Bravo (Complutense U of Madrid)**
Density of smooth function with no critical points within the set of continuous functions on Banach spaces

16:10 – 16:30 **Daylen Thimm (U of Innsbruck)**
True σ -porosity for Alternating Projection Orders

19:00 – **Conference Dinner**
Restaurant Heuriger Mayer am Pfarrplatz

• **Thursday, March 20th, 2025**

09:00 – 09:45 **Jordi López-Abad (UNED, Madrid)**
 F_σ -ideals, colorings, and representation in Banach spaces.

10:00 – 10:45 **Piotr Borodulin-Nadzieja (U of Wroclaw)**
Combinatorial Banach spaces

10:45 – 11:15 **Coffee Break**

11:15 – 11:35 **Sebastian Jachimek (U of Wroclaw)**
On the spaces dual to combinatorial Banach spaces

11:45 – 12:05 **Victor Olmos Prieto (UNED, Madrid)**

The Banach-Saks rank of a separable weakly compact set

12:15 – 12:35 **Zdeněk Silber (Academy of Sciences, Prague)**

A separable Banach space of nontrivial Baire order

12:35 – 14:45 **Lunch Break**

14:45 – 15:30 **Witold Marciszewski (U Warsaw)**

Counting Banach spaces $C(K)$

15:30 – 16:00 **Coffee Break**

16:00 – 16:20 **Maciej Korpalski (U of Wrocław)**

Semadeni derivative of Banach spaces and functions on nonmetrizable rectangles

16:25 – 16:45 **Eugene Bilokopytov (U Alberta, Edmonton)**

Von Neumann-Maharam problem for vector lattices

• **Friday, March 21st, 2025**

09:00 – 09:20 **Arkady Leiderman (Ben-Gurion U, Beer-Sheva)**

On w^ -binormality of the dual space $C_k(X)'$*

09:30 – 09:50 **Todor Manev (Sofia U)**

Continuous functions on Fedorchuk compacta

10:00 – 10:20 **Ondřej Kalenda (Charles U, Prague)**

Simpliciality of vector-valued function spaces

10:20 – 10:50 **Coffee Break**

10:50 – 11:10 **David Muñoz-Lahoz (U Autonoma de Madrid)**

AM-algebras

11:20 – 11:40 **Luis David Reyes Sáenz (UNAM, Mexico City)**

Q -points, Q -measures, and L -orthogonality

11:50 – 12:10 **Alberto Salguero-Alarcón (Complutense U of Madrid)**

Free objects in p -Banach lattices

12:15 – 12:35 **Ondřej Zindulka (CTU Prague)**

Fractal measures in Polish groups and Banach spaces: cardinal invariants

12:35 – 12:45 **Closing**

All talks take place at ESI Boltzmann Lecture Hall!