

**Workshop on  
“Set-Theory”****July 4 - 8, 2022****organized by****Jörg Brendle (Kobe U), Vera Fischer (U Vienna), Sy David Friedman (U Vienna)****• Monday, July 4th, 2022**09:00 – 09:30 **Registration & Welcome**09:30 – 10:00 **Heike Mildenerger (ALU Freiburg)***A Simple  $P_{\aleph_1}$ -Point and a Simple  $P_{\aleph_2}$ -Point*10:00 – 10:15 **Discussion/Break**10:15 – 10:30 **Coffee Break**10:30 – 11:00 **Jonathan Cancino-Manriquez (Czech Academy of Sciences, Prague)***No Hausdorff ultrafilters with large continuum*11:00 – 11:15 **Discussion/Break**11:15 – 11:45 **Jindřich Zapletal (U of Florida, Gainesville)***Algebra and the Axiom of Choice*11:45 – 12:00 **Discussion/Break**12:00 – 14:00 **Lunch Break**14:00 – 15:00 **Poster Session**15:00 – 15:30 **Coffee Break**15:30 – 16:00 **ONLINE Sean Cox (VCU)***Homological algebra, elementary submodels, and stationary logic*16:00 – 16:15 **Discussion/Break**16:15 – 16:45 **ONLINE Alexander Kechris (Caltech, Pasadena)***The compact action realization problem*16:45 – 17:00 **Discussion/Break****• Tuesday, July 5th, 2022**09:00 – 09:30 **Mirna Džamonja (CNRS, Paris)***Reasonable uncountable structures*09:30 – 09:45 **Discussion/Break**09:45 – 10:15 **Ben De Bondt (Université de Paris)***On a playfully defined family of countable elementary submodels of  $H_{\aleph_{\theta}}$* 10:15 – 10:30 **Discussion/Break**10:30 – 11:00 **Coffee Break**11:00 – 11:30 **Lorenz Halbeisen (ETH Zürich)**

*Four Cardinals and Their Relations in ZF*

11:30 – 11:45 **Discussion/Break**

11:45 – 12:15 **François Le Maître (U Paris-Diderot)**

*Global aspects of transitive actions of free groups and Baumslag Solitar groups*

12:15 – 12:30 **Discussion/Coffee Break**

12:30 – 14:00 **Lunch Break**

14:00 – 14:30 **Omer Ben Neria (HUJ)**

*Diamond, Compactness, and product approximations.*

14:30 – 14:45 **Discussion/Break**

14:45 – 15:15 **Coffee break**

15:15 – 15:45 **ONLINE Osvaldo Guzman (UNAM)**

*More on the  $P$ -ideal Dichotomy and cardinal invariants of the continuum*

15:45 – 16:00 **Discussion/Break**

16:00 – 16:30 **ONLINE Michael Hrusak (UNAM)**

*Tukey order on  $F_\sigma$  ideals*

16:30 – 16:45 **Discussion/Break**

• **Wednesday, July 6th, 2022**

09:00 – 09:30 **Sandra Müller (TU Vienna)**

*Preserving universally Baire sets and Sealing*

09:30 – 09:45 **Discussion/Break**

09:45 – 10:15 **Otmar Spinas (CAU)**

*Mycielski ideals and uniform Sacks trees*

10:15 – 10:30 **Discussion/Break**

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 **David Aspero (UoEA)**

*On forcibility of  $\Sigma_2$  sentences over  $L(V_\delta)$*

11:30 – 11:45 **Discussion/Break**

11:45 – 12:15 **Mohammad Golshani (IPM, Tehran)**

*Universal graphs at uncountable regular cardinals*

12:15 – 12:30 **Discussion/Break**

12:30 – 14:00 **Lunch Break**

18:30 – **Dinner: Wolff**

• **Thursday, July 7th, 2022**

09:00 – 09:30 **Marlene Koelbing (U Vienna)**

*Fresh function spectra*

09:30 – 09:45 **Discussion/Break**

09:45 – 10:15 **James Cummings (Carnegie Mellon U, Pittsburgh)**

*Pathological measures*

10:15 – 10:30 **Discussion/Break**

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 **Grigor Sargsyan (Polish Academy of Science, Warsaw)**

*There are no long sequences of definable sets of reals.*

11:30 – 11:45 **Discussion/Break**

11:45 – 12:15 **Natasha Dobrinen (U of Denver)**

*Ramsey theory on homogeneous structures*

12:15 – 12:30 **Discussion/Break**

12:30 – 14:00 **Lunch Break**

14:00 – 14:30 **Alan Dow (UNC Charlotte)**

*Pseudo-intersections and a variant of matrix forcing*

14:30 – 14:45 **Discussion/Break**

14:45 – 15:15 **Coffee Break**

15:15 – 15:45 **ONLINE Anton Bernshteyn (Georgia Institute of Technology)**

*Constructing equivariant maps to free (and almost free) subshifts*

15:45 – 16:00 **Discussion/Break**

16:00 – 16:30 **ONLINE Itay Neeman (UCLA)**

*Restrictions of  $OCA_T$  with large continuum*

16:30 – 16:45 **Discussion/Break**

• **Friday, July 8th, 2022**

09:00 – 09:30 **Šárka Stejskalová (Charles U, Prague)**

*Indestructibility of some compactness principles over models of PFA*

09:30 – 09:45 **Discussion/Break**

09:45 – 10:15 **Jelle Mathis Kuiper (CAU)**

*Mycielski Ideals and Uniform Sacks Trees*

10:15 – 10:30 **Discussion/Break**

10:30 – 11:00 **Coffee Break**

11:00 – 11:30 **David Schritterser (U Toronto)**

*Maximal discrete sets*

11:30 – 11:45 **Discussion/Break**

11:45 – 12:15 **Zoltan Vidnyanszky (CalTech, Pasadena)**

*Large Borel chromatic numbers of bounded degree acyclic graphs*

12:15 – 12:30 **Discussion/Break**

12:30 – 14:00 **Lunch Break**

14:00 – 14:30 **William Chan (Carnegie Mellon U, Pittsburgh)**

*A Survey of Cardinalities under Determinacy*

14:30 – 14:45 **Discussion/Break**

14:45 – 15:15 **Coffee Break**

15:15 – 15:45 **Asger Törnquist (U of Copenhagen)**

*Regularity properties and mad families in higher dimensions*

15:45 – 16:00 **Discussion/Break**

**All talks take place at ESI Boltzmann Lecture Hall!**