Ideal analytic sets

Łukasz Mazurkiewicz

Wrocław University of Science and Technology

Showing analytic completeness of given analytic set A is one of few options to prove, that A is not Borel. In the talk we will discuss results concerning some examples of coanalytic ideals on ω (treated as a subset of Cantor space)[1]. From there we will also derive a result about trees associated with Mathias forcing.

Presented results are obtained together with my supervisor, Szymon Zeberski.

References

- [1] R. Filipów, K. Kowitz, A. Kwela A unified approach to Hindman, Ramsey and van der Waerden spaces, preprint (2023), arXiv:2307.06907 [math.GN]
- [2] Rafał Filipów, On Hindman spaces and the Bolzano-Weierstrass property, Topology Appl. 160 (2013), no. 15, 2003-2011
- [3] Alexander S. Kechris, Classical Descriptive Set Theory, Springer-Verlag New York, Inc. 1995