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Nonmeasurable sets with respect to ideals defined by trees

Joint work with Robert Rałowski

We will consider measurability with respect to various tree ideals: Marczewski ideal s_0 , Miller ideal m_0 and Laver ideal l_0 . Such notions were studied e.g. in [1].

In particular, we will show the following theorem.

Theorem. *There exists a maximal family of eventually different reals $\mathcal{A} \subseteq \omega^\omega$ such that \mathcal{A} is not s, l, m -measurable and contains a dominating family of size \mathfrak{d} .*

This result generalizes result from [2].

- [1] Brendle J., Strolling through paradise, *Fundamenta Mathematicae*, 148 (1), (1995), 1–25,
- [2] Rałowski R., Families of sets with nonmeasurable unions with respect to ideals defined by trees, *Archive for Mathematical Logic*, 54, no. 5-6, (2015), 649–658.