## Tomasz Weiss

$A$ note on the intersection ideal $\mathcal{M} \cap \mathcal{N}$
Comment.Math.Univ.Carolin. 54,3 (2013) 437-445.
Abstract: We prove among other theorems that it is consistent with ZFC that there exists a set $X \subseteq 2^{\omega}$ which is not meager additive, yet it satisfies the following property: for each $F_{\sigma}$ measure zero set $F, X+F$ belongs to the intersection ideal $\mathcal{M} \cap \mathcal{N}$.

Keywords: $F_{\sigma}$ measure zero sets; intersection ideal $\mathcal{M} \cap \mathcal{N}$; meager additive sets; sets perfectly meager in the transitive sense; $\gamma$-sets
AMS Subject Classification: 03E05, 03E17

## References

[1] Bartoszyński T., Judah H., Set Theory, AK Peters, Wellesley, Massachusetts, 1995.
[2] Bartoszyński T., Recław I., Not every $\gamma$-set is strongly meager, Contemp. Math., 192, Amer. Math. Soc. Providence, RI, 1996, pp. 25-29.
[3] Bartoszyński T., Shelah S., Strongly meager sets of size continuum, Arch. Math. Logic 42 (2003), 769-779.
[4] Galvin F., Miller A., $\gamma$-sets and other singular sets of real numbers, Topology Appl. 17 (1984), 145-155.
[5] Kraszewski J., Everywhere meagre and everywhere null sets, Houston J. Math. 35 (2009), no. 1, 103-111.
[6] Miller A., Special subsets of the real line, in Handbook of Set-Theoretic Topology, edited by K. Kunen and J.E. Vaughan, North-Holland, 1984, pp. 201-233.
[7] Nowik A., Remarks about transitive version of perfectly meager sets, Real Anal. Exchange 22 (1996/97), no. 1, 406-412.
[8] Nowik A., Scheepers M., Weiss T., The algebraic sum of sets of real numbers with strong measure zero sets, J. Symbolic Logic 63 (1998), 301-324.
[9] Nowik A., Weiss T., Some remarks on totally imperfect sets, Proc. Amer. Math. Soc. 132 (2004), no. 1, 231-237.
[10] Pawlikowski J., A characterization of strong measure zero sets, Israel J. Math. 93 (1996), 171-183.
[11] Pawlikowski J., Sabok M., Two stars, Arch. Math. Logic 47 (2008), no. 7-8, 673-676.
[12] Zindulka O., Small sets of reals through the prism of fractal dimensions, preprint, 2010.
[13] Cohen reals and strong measure zero sets - MathOverflow. 15.
http://mathoverflow.net/questions/63497/ cohen-reals-and-strong-measure-zero-sets

