

Stephen Scheinberg

*A Q -linear automorphism
of the reals with non-measurable graph*

Comment.Math.Univ.Carolin. 60,2 (2019) 209 –210.

Abstract: This note contains a proof of the existence of a one-to-one function Θ of \mathbb{R} onto itself with the following properties: Θ is a rational-linear automorphism of \mathbb{R} , and the graph of Θ is a non-measurable subset of the plane.

Keywords: non-measurable functions; rational automorphism

AMS Subject Classification: 26A30, 28A05, 28A20

REFERENCES

- [1] Gelbaum B. R., Olmsted J. M. H., *Counterexamples in Analysis*, The Mathesis Series Holden-Day, San Francisco, 1964.
- [2] Kharazishvili A. B., *Nonmeasurable Sets and Functions*, North-Holland Mathematics Studies, 195, Elsevier Science B.V., Amsterdam, 2004.