

COMPOSITIO MATHEMATICA

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Compositio Mathematica, tome 27, n° 1 (1973), p. 47

http://www.numdam.org/item?id=CM_1973__27_1_47_0

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**CORRECTION TO 'ON THE NON-MEASURABILITY OF A
CERTAIN MAPPING'**

R. E. Atalla

Professor Walter Rudin has pointed out to me that $C(\beta R)$ is not separable, and hence that all conclusions in [1] which are based on this assumption are not proved. Thus, we cannot assert the non-Baire-measurability of either of the maps $\pi : R \times \beta R \rightarrow \beta R$ or $\pi : R \times K \rightarrow K$ (where K is the support of an invariant mean of the type referred to in the paper). To my knowledge, both questions remain open. (A similar question is asked on page 226 of [2].)

The construction in [1] of the function f is unaffected by the above. Hence we can still assert that the map $p \rightarrow T^p f$ from R to $L^1(m)$ is discontinuous for a large class of invariant means. From this it is easy to prove that the map $\pi : R \times K \rightarrow K$ is discontinuous.

REFERENCES

- [1] R. ATALLA: On the non-measurability of a certain mapping, *Comp. Math.*, 22 (1970), 137–141.
[2] W. RUDIN: Invariant means on L^∞ , *Studia Math. XLIV* (1972), 219–227.

(Oblatum 24–IV–1973)

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