

Krejčí, Pavel; Kurzweil, Jaroslav

A nonexistence result for the Kurzweil integral. (English) Zbl 1005.26005
[Math. Bohem. 127, No. 4, 571-580 \(2002\)](#).

Summary: It is shown that there exist a continuous function f and a regulated function g defined on the interval $[0, 1]$ such that g vanishes everywhere except for a countable set, and the K^* -integral of f with respect to g does not exist. The problem was motivated by extensions of evolution variational inequalities to the space of regulated functions.

MSC:

[26A39](#) Denjoy and Perron integrals, other special integrals

Cited in **3** Documents

Keywords:

[Kurzweil integral](#); [regulated functions](#); [evolution variational inequalities](#)

Full Text: [EuDML](#)