ON WEAKLY ŚWIĄTKOWSKI FUNCTIONS

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In 2020 in the paper [1] the following definition was introduced: we say that f satisfies the weak Świątkowski condition (or is weakly Świątkowski) if for all $x_1 \neq x_2$ with $f(x_1) < f(x_2)$ there is a point $x \in I(x_1, x_2)$ such that $f(x_1) < f(x) < f(x_2)$.

This definition is a modification of Świątkowski condition ([2]) in which point x mentioned above has to be a point of continuity of f.

In the talk we will examine some properties of weakly Świątkowski functions.

All results are obtained together with Małgorzata Filipczak and Artur Bartoszewicz.

References

[1] T. Banakh, M. Filipczak, J. Wódka, *Returning functions with closed graph are continuous*, Math. Slovaca 70 (2020), No 2, 1–8.
[2] T. Mańk, T. witkowski, *On some class of functions with Darboux's characteristic*, Zesz. Nauk. Politech. Łódz., Mat. 11 (1978), 5–10.

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