

# Some remarks on operators on the spaces of smooth functions related to derivatives and entropy

Aleksandra Świątczak \*

## Abstract

During the talk, we will discuss certain operator equations and inequalities in spaces of smooth functions. Our research involves applications of some tools of functional inequalities and convex functions. Our starting point is recent research connected with operator relations characterizing derivatives that were mainly carried out by H. König and V. Milman and are mostly collected in their monograph [1]. We will put an emphasis on connections with various notions of generalized convexity and monotonicity.

## References

- [1] KÖNIG H., MILMAN V., *Operator Relations Characterizing Derivatives*, Springer, 2018.

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\*Lodz University of Technology, [aleksandra.swiatczak@dokt.p.lodz.pl](mailto:aleksandra.swiatczak@dokt.p.lodz.pl)