

# SUPER LEVEL MEASURES OF FUNCTIONS

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The talk is devoted to a concept of size and corresponding super level measures which was introduced by Y. Do and C. Thiele [DT] in harmonic and time-frequency analysis context. After its quick description, Y. Do and C. Thiele define outer  $L^p$  spaces and corresponding theory is developed in standard fashion. Thus [DT] contains mainly applications of the concept.

We present the results of a joint work with L. Halčinová, O. Hutník and J. Kiseľák aimed at detailed study of size and corresponding super level measures. Moreover, minor improvements are made, so the concept can be applied in the theory of non-additive integrals which are standardly defined through level measures of functions.

## REFERENCES

- [1] DO, Y., THIELE, C.:  $L^p$  theory for outer measures and two themes of Lennart Carleson united. *Bull. Amer. Math. Sci.* **52** (2) (2015), 249–296.

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