

44th Summer Symposium in Real Analysis

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Title of the talk

On a strengthening of the First Beurling–Malliavin theorem.

Abstract

In this talk, we will discuss a new sufficient condition for a function to be a Beurling–Malliavin majorant. In this condition, we only ask for boundedness of a certain Sobolev type norm of the logarithm of the function, in comparison to the Lipschitz regularity that is demanded in the classical First Beurling–Malliavin theorem.

References

- [1] I. Vasilyev, *On the first Beurling–Malliavin theorem*, preprint (2022), arXiv:2203.16674.