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On the boundedness of the mapping $f \rightarrow |f|$ in Besov spaces

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Abstract: For $1 \leq p \leq \infty$, precise conditions on the parameters are given under which the particular superposition operator $T : f \rightarrow |f|$ is a bounded map in the Besov space $B_{p,q}^s(R^1)$. The proofs rely on linear spline approximation theory.

Keywords: Nemytzki operators, Besov spaces, moduli of smoothness, linear splines

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