

What is cheaper, a function or its absolute value?

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We study the Nemytskii operators $u \mapsto |u|$ and $u \mapsto u^\pm$ in fractional Sobolev spaces $H^s(\mathbb{R}^n)$, $s > 1$. This is a joint work with Alexander I. Nazarov, St.Petersburg Department of Steklov Institute and St.Petersburg State University