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Aula T2 (UB)

On Gagliardo-Nirenberg type inequalities

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ABSTRACT:

A joint work with F. J. Pérez Lázaro (Universidad de la Rioja). We prove Gagliardo-Nirenberg type multiplicative estimates for Lorentz norms of a function. These estimates are expressed in terms of norms of derivatives of a function and its homogeneous Besov norms of negative order. In particular, this gives a refinement of the well-known strong version of Sobolev embedding theorem involving Lorentz norms.