

Bourgain-Brezis-Mironescu formula in the magnetic setting

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Abstract

A result by Bourgain, Brezis and Mironescu states that a suitable scaled limit of fractional Sobolev norms converges to the L^p -norm of the gradient. Davila and Ponce proved independently a similar result for BV functions.

In this talk we will present a *magnetic* counterpart of these results.

The results presented here have been obtained in collaboration with A. Pinamonti and M. Squassina.