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Interpolation on Smoothness Spaces Related to Morrey Spaces

Abstract:

We study the interpolation of Morrey spaces and some smoothness function spaces based on Morrey spaces, such as the Besov-Morrey and the Triebel-Lizorkin-Morrey spaces. Various interpolation methods, including the complex method and the Gagliardo method, are studied in such a framework. As an application, the Haar wavelet characterization of some Morrey type spaces are presented.