Some Notes on the Inclusion Between Morrey Spaces

Philotheus E. A. Tuerah and Nicky K. Tumalun

Abstract. In this paper, we show that the Morrey spaces $\mathcal{M}_{q_1}^p(\mathbb{R}^n)$ cannot be contained in the weak Morrey spaces $w\mathcal{M}_{q_2}^p(\mathbb{R}^n)$ for $q_1 \neq q_2$. We also show that the vanishing Morrey spaces $\mathcal{V}^p_{q_1}(\mathbb{R}^n)$ are not empty and properly contained in the Morrey spaces $\mathcal{M}_{q_1}^p(\mathbb{R}^n)$.


Keywords and phrases: Morrey spaces, vanishing Morrey spaces.

References