CONTINUOUS EMBEDDINGS OF BESOV-MORREY FUNCTION SPACES

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Abstract. We study embeddings of spaces of Besov-Morrey type,

$$MB^{s_1,r_1}_{p_1,q_1}(\mathbb{R}^d) \hookrightarrow MB^{s_2,r_2}_{p_2,q_2}(\mathbb{R}^d),$$

and obtain necessary and sufficient conditions for this. Moreover, we can also characterise the special weighted situation $B^{s_1}_{p_1,r_1}(\mathbb{R}^d, w) \hookrightarrow MB^{s_2,r_2}_{p_2,q_2}(\mathbb{R}^d)$ for a Muckenhoupt $\mathcal{A}_\infty$ weight w, with $w_\alpha(x) = |x|^\alpha$, $\alpha > -d$, as a typical example.

This is joint work with Leszek Skrzypczak (Poznań).

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