

# CONTINUOUS EMBEDDINGS OF BESOV-MORREY FUNCTION SPACES

DOROTHEE D. HAROSKE  
FRIEDRICH-SCHILLER-UNIVERSITY JENA, GERMANY

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

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

and obtain necessary and sufficient conditions for this. Moreover, we can also characterise the special weighted situation  $B_{p_1, r_1}^{s_1}(\mathbb{R}^d, w) \hookrightarrow MB_{p_2, q_2}^{s_2, r_2}(\mathbb{R}^d)$  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).

*E-mail address:* dorothee.haroske@uni-jena.de

---

1991 *Mathematics Subject Classification.* 46E35.

*Key words and phrases.* weighted Besov spaces, Besov-Morrey spaces, continuous embeddings.