1015-46-54 **Petr Gurka\*** (gurka@tf.czu.cz), Department of Mathematics, Czech University of Agriculture in Prague, 165 01 Prague, Czech Rep. *Sharp embeddings of Besov-type spaces.* 

We prove sharp embeddings of Besov spaces  $B_{p,r}^{\sigma,b}(\mathbb{R}^n)$  involving both the classical smoothness  $\sigma$  and a slowly varying smoothness b into Lorentz-Karamata spaces. Our methods are quite elementary, we use neither the interpolation theory or the atomic decomposition of spaces in question. We cover both sublimiting and limiting cases and we determine growth envelopes of spaces  $B_{p,r}^{\sigma,b}(\mathbb{R}^n)$ . (Received January 18, 2006)