1015-46-41   **Bohumr Opic*** (`opic@math.cas.cz`), Mathematical Institute, AS CR, Zitna 25, 115 67 Prague 1, Czech Rep. *Optimality of embeddings of Bessel-potential-type spaces into generalized Hölder spaces.*

We present sharp embeddings of Bessel potential spaces modelled upon Lorentz-Karamata spaces and the non-compactness of such embeddings. Target spaces in our embeddings are generalized Hölder spaces. As consequences of our results, we obtain continuous envelopes of Bessel potential spaces in question. It is a joint work with A. Gogatishvili and J. Neves. (Received January 11, 2006)