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Entropy numbers of embeddings in Besov spaces

In this talk we consider the asymptotic behaviour of entropy numbers of compact embeddings in Besov spaces. Main tools for this object are wavelet characterisations of function spaces, the use of operator ideals and basic estimates of entropy numbers for finite-dimensional sequence spaces.

We shall discuss the interaction of these tools in case of different classes of Besov spaces.

The presented results are the outcome of joint work with Leszek Skrzypczak (Poznań), Thomas Kühn (Leipzig) and Winfried Sickel (Jena).