

**COMPACTNESS OF EMBEDDINGS OF FUNCTION SPACES
DEFINED ON QUASI-BOUNDED DOMAINS**

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Abstract. The talk is based on a joint work with Leszek Skrzypczak (Poznań). We discuss sufficient and necessary conditions for compactness of embeddings of Besov and Triebel-Lizorkin spaces defined on bounded and unbounded uniformly E-porous domains. Moreover we describe the asymptotic behavior of the corresponding entropy numbers and consider some applications to spectral properties of elliptic operators.

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