

Envelope functions in real interpolation spaces. A first approach

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We discuss the connection between the growth envelope function of a function space X , $\mathcal{E}_G^X(t) \sim \sup\{f^*(t) : \|f\|_X \leq 1\}$, $0 < t < 1$, and real interpolation spaces $(X_0, X_1)_{\theta, q}$, $0 < \theta < 1$, $1 \leq q \leq \infty$. In particular, we consider rearrangement-invariant spaces. Similar results are obtained for the continuity envelope function.