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Interpolation of function spaces and extension operators

Interpolation is an important tool in the theory of function spaces. In particular, interpolation with a function parameter can be used to extend results proved for classic spaces on \mathbb{R}^n to the so-called spaces of generalised smoothness. Combined with convenient extension operators can be used to shift results for function spaces on domains.

In this talk we present a universal extension operator and we apply it to obtain interesting results for function spaces of generalised smoothness, such as, pointwise multipliers and interpolation of some classes of function spaces on domains.