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The trace method for ℓ^q -structured interpolation

In this talk we discuss the trace method within the framework of the sequentially structured interpolation method for sequence structures that are of ℓ^q -type. Our setting covers the ℓ^q -interpolation method introduced by Kunstmann, which for the scale of Triebel-Lizorkin spaces plays the role the real interpolation method plays for the scale of Besov spaces. As an application we consider the problem of maximal L^p - L^q -regularity for parabolic boundary value problems.

The talk is based on joint work with Emiel Lorist (Delft University of Technology).