Daan van Dijk
Friedrich Schiller University Jena, Germany

Interpolation of Transmission Spaces

The so-called *Transmission Spaces* arise naturally when studying Dirichlet boundary value problems of the fractional Laplacian, or other pseudodifferential operators, i.e.

$$r^+(I - \Delta)^a u = f \text{ on } \mathbb{R}^n_+, \quad \text{supp}(u) \subset \overline{\mathbb{R}^n_+}, \ 0 < a < 1.$$

In this talk we will present some of our ongoing work on the real interpolation of these Transmission spaces. Our work is largely based on the many papers by Gerd Grubb.