# LOCAL FUNCTION SPACES

HANS TRIEBEL

FRIEDRICH-SCHILLER-UNIVERSITT JENA, GERMANY

**Abstract.** Morrey-Campanato spaces came into being in connection non-linear PDE's, in particular the Navier-Stokes equations. This has been combined in the 1990s and especially in the last few years with the Littlewood-Paley approach to the spaces $A_{p,q}^s(\mathbb{R}^n)$, where $A = B$ or $A = F$, resulting in diverse versions of Morrey-Campanato-$A_{p,q}^s(\mathbb{R}^n)$ spaces. In this talk we introduce a nearby, but not identical, class $\mathcal{L}^r A_{p,q}^s(\mathbb{R}^n)$, called *local $A_{p,q}^s$-spaces*, based on wavelets. We describe some key assertions.

*E-mail address*: `hans.triebel@uni-jena.de`