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Pointwise multipliers and diffeomorphisms in function spaces

In his book "Theory of Function Spaces II" Triebel proved two theorems concerning pointwise multipliers and diffeomorphisms in $B_{p,q}^s(\mathbb{R}^n)$ and $F_{p,q}^s(\mathbb{R}^n)$. In each case he presented two approaches, one via atoms and one via local means. While the approach via atoms was very satisfactory concerning the length and simplicity, only the rather technical approach via local means proved the theorems in full generality.

We generalize two extensions of these atomic decompositions, one by Skrzypczak and another by Triebel and Winkelvoss so that we are able to give short proofs for pointwise multiplier and diffeomorphism theorems in $B_{p,q}^s(\mathbb{R}^n)$ and $F_{p,q}^s(\mathbb{R}^n)$ using atomic representations getting more general results than Triebel, in particular for $s < 0$.