ON THE INTERPLAY OF REGULARITY AND DECAY IN CASE OF RADIAL FUNCTIONS

WINFRIED SICKEL

FRIEDRICH SCHILLER UNIVERSITY JENA

Abstract. We deal with decay and boundedness properties of radial functions belonging to Besov and Lizorkin-Triebel spaces. In detail we investigate the surprising interplay of regularity and decay. Our tools are atomic decompositions in combination with trace theorems.

E-mail address: `winfried.sickel@uni-jena.de`