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INHOMOGENEOUS MULTI–PARAMETER BESOV AND TRIEBEL–LIZORKIN SPACES ASSOCIATED WITH DIFFERENT HOMOGENEITIES AND BOUNDEDNESS OF COMPOSITION OPERATORS

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Abstract. In this paper, the author establishes inhomogeneous multi-parameter Besov and Triebel-Lizorkin spaces associated with different homogeneities. Moreover, the boundedness of the composition of two inhomogeneous Calderón-Zygmund singular integrals of order (ε,σ) with different homogeneities is obtained.

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