

1111-46-465

Alberto Fiorenza* (fiorenza@unina.it), Dipartimento di Architettura, Università di Napoli "Federico II", via Monteoliveto, 3, 80134 Napoli, Italy. *On "essentially variable" variable Lebesgue space problems.*

Many results in the theory of variable exponent Lebesgue spaces generalize those that are true for the classical Lebesgue spaces, and one of the most attractive features of the theory is the problem of characterizing the class of exponents for which certain statements remain true. However, some questions are of interest because they arise directly from the framework of variable exponents: for instance, those results where the loss of rearrangement-invariance of the space or the unboundedness of the exponent are the main feature.

In this talk we will discuss some problems of this type from Function Space Theory, Harmonic Analysis, and Differential Equations. (Received February 08, 2015)