S8: Operators in Function Spaces: convergence properties and applications

A GENERAL METHOD TO STUDY THE CONVERGENCE OF NONLINEAR OPERATORS IN ORLICZ SPACES

Gianluca Vinti^{*a*}, Luca Zampogni^{*a*}

 a Department of Mathematics and Computer Sciences, University of Perugia <code>luca.zampogni@unipg.it</code>

We introduce a general setting in which we define nets of nonlinear operators whose domains are sets of functions defined in a locally compact topological group. We analyze the behavior of such net and detect the fairest assumption which are needed for the nets to converge with respect to the uniform convergence and in the setting of Orlicz spaces.