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Marian Bocea* (mbocea@luc.edu), Loyola University Chicago, Department of Mathematics and Statistics, 1032 W. Sheridan Road, Chicago, IL 60660, and **Mihai Mihailescu** (mmihailes@yahoo.com), University of Craiova, Department of Mathematics, 13 A. I. Cuza St., 200585 Craiova, Romania. *On the continuity of the Luxemburg norm of the gradient in variable exponent Lebesgue spaces.*

We study, via Γ -convergence, the continuity of the Luxemburg norm of the gradient in $L^{p(\cdot)}$ with respect to $p(\cdot)$. The minimum values of closely related “Rayleigh quotient” type functionals are shown to converge to a corresponding quantity associated to the Γ -limit. (Received September 25, 2012)