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D Labutin* (labutin@math.ucsb.edu). *Critical elliptic regularity from Littlewood-Paley theory.*

We establish a general theorem improving regularity of solutions of elliptic pseudodifferential equations. It allows to resolve in a unified way the regularity issue for a broad class of nonlinear elliptic equations and systems appearing in different areas of geometry and analysis. (Received March 06, 2006)