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Francois A van Heerden* (hfvan@math.utah.edu), Department of Mathematics, University of Utah, 155 South 1400 East, Room 233, Salt Lake City, UT 84112-0090, and **Z.-Q. Wang**. *On a class of anisotropic nonlinear elliptic equations.*

We establish some imbedding results of weighted Sobolev spaces. The results are then used to obtain ground state solutions of nonlinear elliptic equations with anisotropic coefficients. (Received August 07, 2006)