

**A PRIORI BOUNDS AND EXISTENCE OF SOLUTIONS  
FOR SOME NONLOCAL ELLIPTIC PROBLEMS**

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ABSTRACT. In this paper we show existence of solutions for some elliptic problems with nonlocal diffusion by means of nonvariational tools. Our proof is based on the use of topological degree, which requires a priori bounds for the solutions. We obtain the a priori bounds by adapting the classical scaling method of Gidas and Spruck. We also deal with problems involving gradient terms.

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