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E[u+"˘]= (jr˘j2f0(u)˘2)dx: Then, one says that uis a stable solution of equation (1.1) in if the second variation is non-negative, namely. f0(u)˘2dx6. jr˘j2dx for all ˘2C1 c( ): Note that stability of uis considered within the class of functions agreeing with unear the boundary of .

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L. Dupaigne, Stable Solutions of Elliptic Partial Differential Equations, Chapman and Hall/CRC, 2011. Google Scholar [11] R. L. Frank and E. Lenzmann, Uniqueness of non-linear ground states for fractional Laplacians in $\mathbb{R}$, Acta Math., 210 (2013), 261-318. doi: 10.1007/s11511-013-0095-9. Google Scholar ...

Regularity of radial stable solutions to semilinear ...
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Topic 15.2: Elliptic Partial-Differential Equations (Examples)
In the theory of partial differential equations, elliptic operators are differential operators that generalize the Laplace operator. They are defined by the condition that the coefficients of the highest-order derivatives be positive, which implies the key property that the principal symbol is invertible, or equivalently that there are no real characteristic directions. Elliptic operators are typical of potential theory, and they appear frequently in electrostatics and continuum mechanics. Ellip

Elliptic operator - Wikipedia
(1981). A priori bounds for positive solutions of nonlinear elliptic equations. Communications in Partial Differential Equations: Vol. 6, No. 8, pp. 883-901.

A priori bounds for positive solutions of nonlinear ...
Louis' earliest work, in the 1950's, solved two longstanding problems from geometry by proving new estimates for fully-nonlinear elliptic equations. Over the course of his long and productive career his achievements included the solution of many other important problems, and—equally significant—the introduction of many new ideas and techniques.

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