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STABLE SOLUTIONS TO SEMILINEAR ELLIPTIC EQUATIONS ARE ...

The nonexistence and stability of solutions to nonlinear elliptic partial differential equations have drawn much attention in the last decades. Readers can find recent developments on stable solutions in the monograph [6] by Dupaigne, and on related problems in [1, 3, 7, 13]. We should mention here the results in [8, 9] for Lane-Emden-Fowler equation

Stable Solutions of Elliptic Partial Differential ...

Stable Solutions of Elliptic Partial Differential Equations offers a self-contained presentation of the notion of stability in elliptic partial differential equations (PDEs). The central questions of regularity and classification of stable solutions are treated at length.

STABLE SOLUTIONS OF ELLIPTIC EQUATIONS ON RIEMANNIAN MANIFOLDS

Title: Stable solutions to semilinear equations are smooth up to dimension 9. Authors: Xavier Cabre, Alessio Figalli, Xavier Ros-Oton, Joaquim Serra. Download PDF

Stable solutions of elliptic equations on Riemannian ...

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}^n , Acta Math., 210 (2013), 261-318. doi: 10.1007/s11511-013-0095-9. Google ...

[1907.09403] Stable solutions to semilinear elliptic ...

then Eq. (1) has no bounded stable positive solution. We remark that for Eq. (1) (with $\alpha = 0$), the critical exponent on the right-hand side of (1) was first found in [1]. This exponent has been shown to be optimal in the class of positive stable weak solutions; see [2]. Similar to the celebrated Lane-Emden system in the case of positive exponents, the system is also a natural extension of Eq. (1).

Regularity of radial stable solutions to semilinear ...

Regularity of stable solutions to quasilinear elliptic equations on Riemannian models 727 involving the p -Laplacian in the homogeneous case of the form (1.7) $-\Delta_p u = \lambda h(u)$ in Ω , $u > 0$ in Ω , $u = 0$ on $\partial\Omega$, was studied by García-Azorero, Peral and Puel [20, 21] where Ω is a smooth bounded domain of \mathbb{R}^n .

Stable Solutions of Elliptic Partial Differential ...

Stable Solutions of Elliptic Partial Differential Equations 1st Edition by Louis Dupaigne and Publisher Chapman and Hall/CRC. Save up to 80% by choosing the eTextbook option for ISBN: 9781420066555, 1420066552. The print version of this textbook is ISBN: 9781420066548, 1420066544.

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Stable Solutions of Elliptic Partial Differential Equations offers a self-contained presentation of the notion of stability in elliptic partial differential equations (PDEs). The central questions of regularity and classification of stable solutions are treated at length.

Partial regularity of stable solutions to the ...

9781420066548 Stable solutions of elliptic partial differential equations. Dupaigne, Louis. CRC Press 2011 321 pages \$89.95 Hardcover Chapman & Hall/CRC monographs and surveys in pure and applied mathematics; 143

REGULARITY OF STABLE SOLUTIONS TO QUASILINEAR ELLIPTIC ...

L. Dupaigne, Stable Solutions of Elliptic Partial Differential Equations, Chapman & Hall/CRC Monographs and Surveys in Pure and Applied Mathematics 143, Boca Raton, FL, 2011. doi: 10.1201/b10802. Google Scholar [15] D. Gilbarg and N. S. Trudinger, Elliptic Partial Differential Equations of Second Order, Second edition.

On stable entire solutions of sub-elliptic system ...

Qualitative behavior. Elliptic equations have no real characteristic curves, curves along which it is not possible to eliminate at least one second derivative of from the conditions of the Cauchy problem. Since characteristic curves are the only curves along which solutions to partial differential equations with smooth parameters can have discontinuous derivatives, solutions to elliptic ...

Rigidity Results for Elliptic Boundary Value Problems ...

This paper is devoted to the study of rigidity properties for special solutions of nonlinear elliptic partial differential equations on smooth, boundaryless Riemannian manifolds. As far as stable solutions are concerned, we derive a new weighted Poincaré inequality which allows to prove Liouville type results and the flatness of the level sets of the solution in dimension 2, under suitable ...

A new proof of the boundedness results for stable ...

The regularity of stable solutions to semilinear elliptic equations is a very classical topic in elliptic equations, initiated in the seminal paper of Crandall and Rabinowitz, which has given rise to a huge literature on the topic; see the monograph for an extensive list of results and references.

Stable Solutions Of Elliptic Partial

Stable solutions are ubiquitous in differential equations. They represent meaningful solutions from a physical point of view and appear in many applications, including mathematical physics (combustion, phase transition theory) and geometry (minimal surfaces). Stable Solutions of Elliptic Partial Differential Equations offers a self-contained ...

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regularity of stable solutions up to dimension 9 189 that one imposes on (1.1), the energy admits no absolute minimizer.(1)However, we will see that in many instances there exist non-constant stable solutions, such as local minimizers. The regularity of stable solutions to semilinear elliptic equations is a

Stable solutions of elliptic partial differential ...

This paper is devoted to the study of rigidity properties for special solutions of nonlinear elliptic partial differential equations on smooth, boundaryless Riemannian manifolds. As far as stable...

Stable solutions to semilinear elliptic equations are ...

We prove the partial regularity of stable solutions of supercritical elliptic equations. As an application, we prove that any smooth stable entire solution to supercritical equations with pin a suitable range is radially symmetric.

NONEXISTENCE OF STABLE SOLUTIONS TO p -LAPLACE EQUATIONS ...

STABLE SOLUTIONS OF ELLIPTIC EQUATIONS ON RIEMANNIAN MANIFOLDS ALBERTO FARINA, YANNICK SIRE AND ENRICO VALDINOCI Abstract. This paper is devoted to the study of rigidity properties for special solutions of nonlinear elliptic partial differential equations on smooth, boundaryless Riemannian manifolds.

Stable Solutions of Elliptic Partial Differential ...

Stable Solutions of Elliptic Partial Differential Equations. Chapman & Hall/CRC Monographs and Surveys in Pure and Applied Mathematics 143. Boca Raton, FL: CH/CRC, 2011. Google Scholar. Crossref. Search ADS. Google Scholar [14] Farina, A. ...