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[1907.09403] Stable  
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then Eq. () has no  
bounded stable positive  
solution. We remark that  
for Eq. () (with  $\alpha = 0$ ), the critical  
exponent on the right-  
hand side of was first  
found in []. This

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exponent has been shown to be optimal in the class of positive stable weak solutions; see [1]. Similar to the celebrated Lane–Emden system in the case of positive exponents, the system is also a natural extension of Eq.

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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.

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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.

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L. Dupaigne, Stable  
Solutions of Elliptic  
Partial Differential  
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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

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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

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Differential  
Equations  
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 ...

**Elliptic partial  
differential equation -**

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**Wikipedia**

regularity of stable solutions up to dimension 9 [189] that one imposes on (1.1), the energy  $E$  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

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solutions to semilinear  
elliptic equations is a

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EQUATIONS ARE ...**

The nonexistence and  
stability of solutions to  
nonlinear elliptic partial  
differential equations  
have drawn much  
attention in the last

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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

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Stable Solutions of  
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offers a self-contained  
presentation of the  
notion of stability in  
elliptic partial  
differential equations  
(PDEs). The central  
questions of regularity  
and classification of

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stable solutions are  
treated at length.

**Rigidity Results for  
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properties for special  
solutions of nonlinear  
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differential equations on  
smooth, boundaryless  
Riemannian manifolds.

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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 ...

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elliptic equations on  
Riemannian ...**

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L. Dupaigne, Stable  
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**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) ? ?? ??

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$-\Delta u = h(u)$  in  $\Omega$ ,  $u > 0$  in  $\Omega$ ,  $u = 0$  on  $\partial\Omega$ , was studied by García-Azorero, Peral and Puel [20, 21] where  $\Omega$  is a smooth bounded domain of  $\mathbb{R}^N$ .

## **Stable solutions to semilinear elliptic equations are ...**

We prove the partial regularity of stable solutions of supercritical

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elliptic equations. As an application, we prove that any smooth stable entire solution to supercritical equations with  $p$  in a suitable range is radially symmetric.

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