

# Semilinear Schrodinger Equations

by Thierry Cazenave

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Im reading Cazenaves book Semilinear Schrodinger equations and I found this inequality at page 84.  $u_1 \leq u_2 \Rightarrow C(u_1 + u_2) \leq C(u_1) + C(u_2)$  ... Schrodinger Equations. By. Hiroyuki CFFIHARA\*. Abstract. We present local and global existence theorems for cubic semilinear Schrodinger equations. Our new ... A semilinear Schrödinger equation with magnetic field Lie symmetries of semi-linear Schrödinger equations . - IOPscience Semilinear Schrodinger equation - DispersiveWiki nonlinear Schrodinger equation, even though certain of the original problems. (e.g., water ... shall show that for the semilinear quadratic Schrodinger equation. Existence and number of solutions for a class of semilinear . If the non-linearity does not contain derivatives then we refer to this equation as a semilinear Schrodinger equation (NLS). These equations (particularly the ... Semilinear Schrödinger Equations - Thierry Cazenave - Google Books A semilinear Schrödinger equation with magnetic field. Andrzej Szulkin. Department of Mathematics, Stockholm University. 106 91 Stockholm, Sweden. Cutoff Resolvent Estimates and the Semilinear Schrodinger Equation

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smoothing for solutions to the Schrödinger equation. If the resolvent ... lead to well-posedness results for the semilinear Schrödinger equation. Motivated. Resonance and long time existence for the quadratic semilinear . of semilinear Schrödinger equations. Yanheng Ding. Institute of Mathematics, AMSS, Chinese Academy of Sciences. 100080 Beijing, China. Andrzej Szulkin. Abstract. We discuss local existence and gain of regularity for semilinear Schrödinger equations which generally cause loss of derivatives. We prove our results ... QUADRATIC FORMS FOR THE 1-D SEMILINEAR SCHRODINGER . In this paper we study the decay property of solutions of a semilinear Schrödinger equation,  $u_t + \Delta u + V(x)u = f(x, u)$  in  $\mathbb{R}^n$ , where  $f$  is superlinear, subcritical and  $V$  is a potential. We give a lower bound estimate of nontrivial ... Semilinear Schrodinger Equations (Courant Lecture Notes . Global Existence of Small Solutions to Semilinear Schrodinger . In this work we restrict ourselves to the one-dimensional case with quadratic homogeneous nonlinearities. The IVP for the 1-D semilinear Schrodinger equation. Multiple positive solutions for semilinear Schrödinger equations with  $\Delta u + V(x)u = f(x, u)$ . We prove that the initial value problem for the semi-linear Schrödinger and wave . In this introduction we focus on the Schrödinger equation; remarks relevant to ... 6.—Oscillation Theory for Semilinear Schrodinger Equations and ... The authors prove the existence of nontrivial solutions for the Schrödinger equation  $u_t + \Delta u + V(x)u = f(x, u)$  in  $\mathbb{R}^n$ , where  $f$  is superlinear, subcritical and  $V$  is a potential. Self-similar solutions and Besov spaces for semi-linear Schrödinger . Local existence for the semilinear Schrödinger equations in one space . Primary: 35Q55: NLS-like equations (nonlinear Schrödinger) [See also 37K10] ... Cazenave: Semilinear Schrodinger Equations Apr 27, 2015 . In this paper, we study the existence, multiplicity, and concentration of positive solutions for the semilinear Schrödinger equation  $u_t + \Delta u + V(x)u = f(x, u)$  in  $\mathbb{R}^n$ . Semilinear Schrödinger Equations - Thierry Cazenave - Google Books Lie symmetries of semi-linear Schrödinger equations and applications. View the table of contents for this issue, or go to the journal homepage for more. 2006 J. Group-invariant solutions of semilinear Schrödinger equations in  $\mathbb{R}^n$ . Cazenave T., Stable solutions of the logarithmic Schrödinger equation, Nonlinear .... Cazenave T., Semilinear Schrödinger equations, Courant Lecture Notes in ... Group-invariant solutions of semilinear Schrodinger equations in  $\mathbb{R}^n$ . Semilinear Schrodinger Equations (Courant Lecture Notes) [Thierry Cazenave] on Amazon.com. \*FREE\* shipping on qualifying offers. The nonlinear ... Semilinear Schrodinger Equations (Courant Lecture Notes): Thierry . 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