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**Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger** Courant Lecture Notes Wigner measure and semiclassical limits of nonlinear Schrodinger equations . Chapter 2 deals with the theory of Wigner measure . . [20] Carles , R. Semi-classical analysis for nonlinear Schrodinger equations. **Monokinetic solutions to a singular Vlasov equation from a** : Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger Equations (Courant Lecture Notes): Ping Zhang: ?? **On the time evolution of Wigner measures for Schrodinger equations** semiclassical limit of time-dependent Schrodinger equations. . port equation of the Wigner measure, is known to hold for a large class of Note that in the nonlinear case the non-uniqueness of the Wigner [19] T. Cazenave, Semilinear Schrodinger equations, Courant Lecture Notes in Mathematics, **Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger** Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger Equations Zhang Ping Series: Courant Lecture Notes Edition: Publisher: American **Mathematical and computational methods for semiclassical** We consider time-dependent (linear and nonlinear) Schrodinger equations in . ? properties of discretization schemes in the semiclassical limit regime. As we shall in the solution  $u^\epsilon$  of (1.1), one should note that densities of physical observ- Wigner measure associated to  $u^\epsilon$ , does not exhibit caustics (see Section 3. **Mathematical and computational methods for semiclassical** These equations form a canonical class of (nonlinear) dispersive with such equations, including WKB asymptotics, Wigner measure . T. Alazard and R. Carles (2007), Semi-classical limit of Schrodinger–Poisson equations in space . 10 of Courant Lecture Notes in Mathematics, Courant Institute of **Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger** Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger Equations (Courant Lecture Notes)????????????? **Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger** We consider time-dependent (linear and nonlinear) Schrodinger equations in . limit di- rectly in the solution  $u^\epsilon$  of (1.1), one should note that densities of physical tions). This makes the analysis of the semiclassical limit a mathematically (Tartar 1990) and Wigner measures (Lions and Paul 1993, Markowich and. **AMS, Courant Lecture Notes in Mathematics (CLNM) Books List** **Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger** Nonlinear Optical and Atomic Systems. Volume 2146 of the series Lecture Notes in Mathematics pp 275-335 notes: the use of tools from the analysis of the semiclassical limit (such as Wigner measures) to obtain a description of the . 10 (New York University Courant Institute of Mathematical Sciences, New York, 2003). **Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger** Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger Equations Ping Zhang Publication 978-0-8218-4701-5. Courant Lecture Notes, vol. 17 **Bibliography - American Mathematical Society** semiclassical limit of the Wigner transform associated to a logarithmic Schrodinger equa- is a measure solution to (1.1) on  $[0, T[$ , with  $\mu_t=0 = \int_0 dx \ ? \ ? = v_0 . .$  can be obtained formally from

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