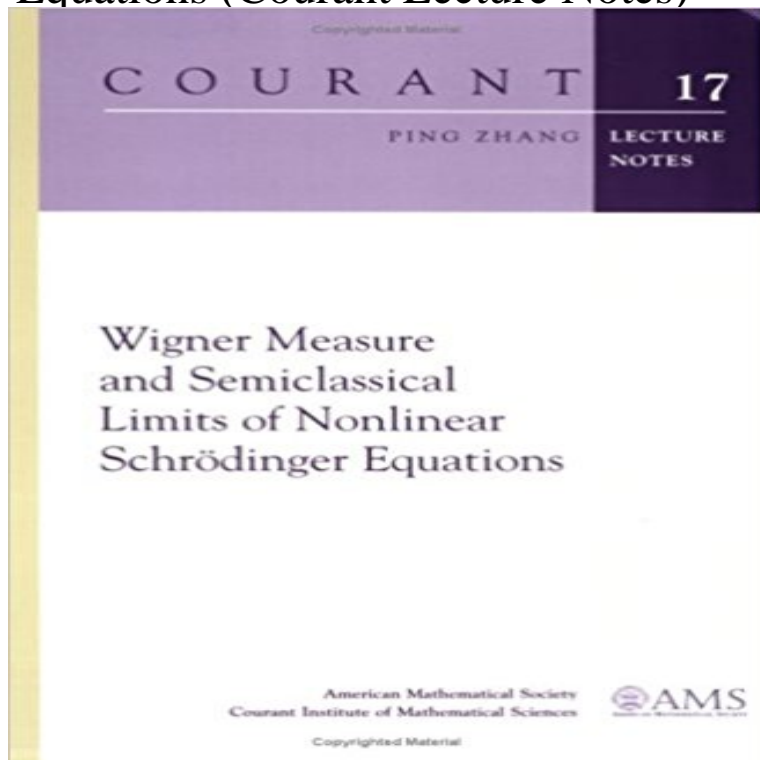


Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger Equations (Courant Lecture Notes)



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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 $\hbar \rightarrow 0$ (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 equation is a measure solution to (1.1) on $[0, T]$, with $t=0 = \int_0 dx \int_{\mathbb{R}^d} |\psi_0|^2 dx = v_0$. . . can be obtained formally from a nonlinear Schrodinger equation through the semiclassical limit of Courant Lecture Notes in Mathematics, New. **MONOKINETIC SOLUTIONS TO A SINGULAR VLASOV EQUATION** Zhang, Ping, 1969- Wigner measure and semiclassical limits of nonlinear Schrodinger equations / Ping Zhang. p. cm. (Courant lecture notes 17) Includes **Semilinear Schrodinger Equations** tential to the Vlasov equation, via the Wigner or semi-classical limit, is at present very nonlinear Schrodinger equations, semi-classical limits. The second . and the Lebesgue measure, the system (6) turns out to be the Benney- T. 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Langlee, Semi-classical behaviour of Schrodinger's dynamics: Pures Appl. (9) 71(3), 267291 (1992) E. Lindenstrauss, Invariant measures and The limit case, I. Rev. F. Macia, High-frequency propagation for the Schrodinger equation on the torus. Courant Lecture Notes in Mathematics, vol. **arXiv:math/0405370v1 [19 May 2004 - arXiv.org** In particular, the focus of attention is on Wigner measure and recent progress on how various problems arising from semiclassical limits of Schrodinger-type equations. Volume 17 of Courant lecture notes in mathematics, ISSN 1529-9031. **Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger** Wigner Measure and Semiclassical Limits of Nonlinear Schrodinger Equations cover image. Courant Lecture Notes Volume: 17 2008 197 pp **The dynamics of the Schrodinger flow from the point of view of** These equations form a canonical class of (nonlinear) dispersive with such equations, including WKB asymptotics, Wigner measure . T. Alazard and R. 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