

1. Record Nr.	UNINA9910829177103321
Autore	Martinez Andre
Titolo	Twisted pseudodifferential calculus and application to the quantum evolution of molecules // Andre Martinez, Vania Sordoni
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2009 ©2009
ISBN	1-4704-0550-4
Descrizione fisica	1 online resource (96 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Volume 200, Number 936
Disciplina	515/.7242
Soggetti	Pseudodifferential operators Born-Oppenheimer approximation Wave packets Evolution equations Evolution (Biology) - Mathematical models Quantum theory - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Volume 200, Number 936 (first of 6 numbers)."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Chapter 1. Introduction""; ""Chapter 2. Assumptions and Main Results""; ""Chapter 3. A Modified Operator""; ""Chapter 4. Twisted h-Admissible Operators""; ""Chapter 5. Twisted Partial Differential Operators""; ""Chapter 6. Construction of a Quasi-Invariant Subspace""; ""Chapter 7. Decomposition of the Evolution for the Modified Operator""; ""Chapter 8. Proof of Theorem 2.1""; ""Chapter 9. Proof of Corollary 2.6""; ""Chapter 10. Computing the Effective Hamiltonian""; ""Chapter 11. Propagation of Wave-Packets""; ""Chapter 12. Application to Polyatomic Molecules"" ""Appendix A. Smooth Pseudodifferential Calculus with Operator-Valued Symbol""""Appendix B. Propagation of the Support""; ""Appendix C. Two Technical Lemmas""; ""Bibliography""