

# MICROLOCAL ANALYSIS

Introductory Workshop  
September 3 to 6, 2019, MSRI

- [1] J. BRÜNING and V. W. GUILLEMIN (eds.), *Mathematics past and present: Fourier integral operators*, Springer, Berlin, 1994, ISBN 3-540-56741-0. MR 1287873. Zbl 0791.47043. doi: 10.1007/978-3-662-03030-1.
- [2] M. DIMASSI and J. SJÖSTRAND, *Spectral asymptotics in the semi-classical limit*, London Mathematical Society Lecture Note Series **268**, Cambridge University Press, Cambridge, 1999, ISBN 0-521-66544-2. MR 1735654. Zbl 0926.35002. doi: 10.1017/CBO9780511662195.
- [3] A. GRIGIS and J. SJÖSTRAND, *Microlocal analysis for differential operators: an introduction*, London Mathematical Society Lecture Note Series **196**, Cambridge University Press, Cambridge, 1994, ISBN 0-521-44986-3. MR 1269107. Zbl 0804.35001. doi: 10.1017/CBO9780511721441.
- [4] L. HÖRMANDER, *The analysis of linear partial differential operators, III: Pseudo-differential operators*, Classics in Mathematics, Springer, Berlin, 2007, Reprint of the 1994 edition, ISBN 978-3-540-49937-4. MR 2304165. Zbl 1115.35005. doi: 10.1007/978-3-540-49938-1.
- [5] L. HÖRMANDER, *The analysis of linear partial differential operators, IV: Fourier integral operators*, Classics in Mathematics, Springer, Berlin, 2009, Reprint of the 1994 edition, ISBN 978-3-642-00117-8. MR 2512677. Zbl 1178.35003. doi: 10.1007/978-3-642-00136-9.
- [6] R. B. MELROSE, *The Atiyah–Patodi–Singer index theorem*, Research Notes in Mathematics **4**, A K Peters, Wellesley, MA, 1993, ISBN 1-56881-002-4. MR 1348401. Zbl 0796.58050. doi: 10.1201/9781439864609.
- [7] R. B. MELROSE, *Geometric scattering theory*, Stanford Lectures, Cambridge University Press, Cambridge, 1995, ISBN 0-521-49673-X; 0-521-49810-4. MR 1350074. Zbl 0849.58071.
- [8] C. D. SOGGE, *Fourier integrals in classical analysis*, 2nd ed., Cambridge Tracts in Mathematics **210**, Cambridge University Press, Cambridge, 2017, ISBN 978-1-107-12007-5. MR 3645429. Zbl 1361.35005. doi: 10.1017/9781316341186.
- [9] M. E. TAYLOR, *Partial differential equations II: Qualitative studies of linear equations*, 2nd ed., Applied Mathematical Sciences **116**, Springer, New York, 2011, ISBN 978-1-4419-7051-0. MR 2743652. Zbl 1206.35003. doi: 10.1007/978-1-4419-7052-7.
- [10] M. E. TAYLOR, *Partial differential equations III: Nonlinear equations*, 2nd ed., Applied Mathematical Sciences **117**, Springer, New York, 2011, ISBN 978-1-4419-7048-0. MR 2744149. Zbl 1206.35004. doi: 10.1007/978-1-4419-7049-7.
- [11] M. ZWORSKI, *Semiclassical analysis*, Graduate Studies in Mathematics **138**, American Mathematical Society, Providence, RI, 2012, ISBN 978-0-8218-8320-4. MR 2952218. Zbl 1252.58001. doi: 10.1090/gsm/138.