MICROLOCAL ANALYSIS: THEORY AND APPLICATIONS
SÉMINAIRE DE MATHÉMATIQUES SUPÉRIEURES 2021

May 3 to August 13, 2021

Books

[1] D. BORTHWICK, *Spectral theory of infinite-area hyperbolic surfaces*, 2nd ed., Progress in Mathematics **318**, Birkhäuser, Cham, 2016, ISBN 978-3-319-33875-0; 978-3-319-33877-4. MR 3497464. Zbl 1351.58001. doi: 10.1007/978-3-319-33877-4.

[2] D. BORTHWICK, *Spectral theory: basic concepts and applications*, Graduate Texts in Mathematics **284**, Springer, Cham, 2020, ISBN 978-3-030-38002-1; 978-3-030-38001-4. MR 4180682. Zbl 1444.47001. doi: 10.1007/978-3-030-38002-1.

[3] 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.

[4] J. J. DUISTERMAAT, *Fourier integral operators*, Modern Birkhäuser Classics, Birkhäuser, New York, 2011, ISBN 978-0-8176-8107-4. MR 2741911. Zbl 1214.35092. doi: 10.1007/978-0-8176-8108-1.

[5] S. DYATLOV and M. ZWORSKI, *Mathematical theory of scattering resonances*, Graduate Studies in Mathematics **200**, American Mathematical Society, Providence, RI, 2019, ISBN 978-1-4704-4366-5. MR 3969938. Zbl 1454.58001. doi: 10.1090/gsm/200.

[6] 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.

[7] 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.

Papers

[1] S. DYATLOV, An introduction to fractal uncertainty principle, *J. Math. Phys.* **60** (2019), no. 8, Article ID #081505. MR 3993411. Zbl 1432.81034. doi: 10.1063/1.5094903.

[2] G. UHLMANN, 30 years of Calderón's problem, *Séminaire Laurent Schwartz—Équations aux dérivées partielles et applications* (2012–2013), Exposé No. XIII. MR 3381003. Zbl 1331.35394. doi: 10.5802/slsedp.40.

[3] M. ZWORSKI, Commentary on "Differentiable dynamical systems" by Stephen Smale, *Bull. Amer. Math. Soc.* (*N.S.*) **55** (2018), no. 3, 331–336. MR 3803155. Zbl 1390.37004. doi: 10.1090/bull/1618.