

Luigi RODINO, short CV

Date and place of birth: July 16, 1948, Cairo Montenotte (Savona), Italy.
Education: Doctor in Mathematics, 1971, University of Torino, Italy.

- 1972-75: University of Lund (Sweden), Institut Mittag-Leffler (Sweden), University of Princeton (USA); visiting fellow.
- 1976-80: University of Torino, charged professor
- 1981-up to now: University of Torino, full professor
- 1988-1991: Director Department of Mathematics, University of Torino
- At present: President Faculty of Mathematics for Finance and Insurance, Univ.Torino; co-ordinator Ph.D. courses in Mathematics, Univ.Torino.
- 1989-up to now: National coordinator Projects COFIN-FIRB, Ministry of Research and Education, Italy, on Partial Differential Equations
- Coordinator International Research Projects NATO (3) and UNESCO (2).
- Number of papers: 106 , monographies 4 , edited volumes 12 , scientific reviews: about 650 ; main field: partial differential equations.
- Corresponding member Accademia delle Scienze di Torino.

List of the Ph.D. students:

- P.Boggiatto, Univ.Torino 1993: Una classe di operatori pseudodifferenziali ed integrali di Fourier globalmente definiti su R^n .
- G.Garello, Univ.Torino 1993: Proprieta' microlocali per operatori pseudo-differenziali non classici.
- F.Tonin (co-supervisor P.Schapira), Univ.Torino 1996: Sul problema di Cauchy analitico.
- S.Coriasco, Univ.Torino 1998: Operatori integrali di Fourier nelle classi SG con applicazione ai problemi di Cauchy iperbolici.
- G.De Donno, Univ.Pisa 1999: Gevrey hypoellipticity for partial differential equations with characteristics of higher multiplicity.
- F.Messina, Univ.Genova 2000: Local solvability for some classes of semilinear partial differential equations.
- P.Marcolongo, Univ.Genova 2001, Solvability and nonsolvability for partial differential equations in Gevrey spaces.
- A.Oliaro, Univ.Genova 2001, Solvability and hypoellipticity for semilinear partial differential equations with multiple characteristics.
- A.Morando, Univ.Genova 2003, Some classes of L^p bounded pseudo-differential operators and applications to multi-quasi-elliptic PDEs.
- D.Calvo (co-supervisor S.Spagnolo), Univ.Pisa 2003, Multianisotropic Gevrey classes and Cauchy problem.
- M.Cappiello, Univ.Genova 2004, Fourier integral operators of infinite order and SG hyperbolic problems.
- A.Volpato (co-supervisor B.-W.Schulze), Univ.Torino 2005, Green operators in the calculus on manifolds with edges.
- F.Nicola (co-supervisor A.Parmeggiani), Univ.Torino 2005, Lower bounds for pseudo-differential operators.
- C.Garetto (co-supervisor M.Oberguggenberger), Univ.Torino 2005, Pseudo-differential operators with generalized symbols and regularity theory.
- I.Camperi, Univ.Torino 2008, Una nuova classe di operatori globalmente ipoellittici.
- G.G.Quelali (co-supervisor D.Delbosco), Univ. Torino 2008, Nonlinear fractional differential equations.

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List of papers

- [1] L.Rodino, **A class of pseudo differential operators on the product of two manifolds and applications**, Ann. Scuola Norm. Sup. Pisa, Ser. IV, 2 (1975), 287-302.
- [2] L.Rodino, **Sistemi di equazioni integrali bisingolari**, Rend. Sem. Mat. Università Politecnico Torino, 32 (1975), 391- 403.
- [3] L.Rodino, **Un problema ai limiti per funzioni di due variabili complesse in domini bicilindrici**, Rend. Sem. Mat. Università Politecnico Torino, 33 (1976), 197-204.
- [4] L.Rodino, **On the boundedness of pseudo differential operators in the class L^p** , Proc. Am. Math. Soc., 58 (1976), 211-215.
- [5] L.Rodino, **On the L^2 continuity of a class of pseudo differential operators**, Ark. Mat., 14 (1976), 141-153.
- [6] B.Helffer, L.Rodino, **Elliptic pseudo differential operators degenerate on a symplectic submanifold**, Bull. Am. Math. Soc., 82 (1976), 619-622.
- [7] M.Mascarello, L.Rodino, **Two examples of pseudo differential operators with multiple characteristics**, Boll. Un. Mat. It., 13-A (1976), 391-398.
- [8] B.Helffer, L.Rodino, **Opérateurs différentiels ordinaires intervenant dans l'étude de l'hypoellipticité**, Boll. Un. Mat. It., 14-A (1977), 491-522.
- [9] C.Parenti, L.Rodino, **A pseudo differential operator which shifts the wave front set**, Proc. Am. Math. Soc., 72 (1978), 251-257.
- [10] L.Rodino, **A boundary value problem for functions of several complex variables in polycylinders**, in "Several Complex variables", Scuola Norm. Sup. Pisa 1978, 268-276.
- [11] L.Rodino, **Systems of polysingular equations**, Rend. Sem. Mat. Università Politecnico Torino, 37 (1979), 139-146.
- [12] L.Rodino, **Polysingular integral operators**, Ann. Mat. Pura Appl., 124 (1980), 59-106.
- [13] L.Rodino, **Nonsolvability of a higher order degenerate elliptic pseudo differential equation**, Am. J. Math., 102 (1980), 1-12.
- [14] C.Parenti, L.Rodino, **Examples of hypoelliptic operators which are not microhypoelliptic**, Boll. Un. Mat. It., 17-B (1980), 390-409.
- [15] C.Parenti, L.Rodino, **Parametrices for a class of pseudo differential operators, I**, Ann. Mat. Pura Appl., 125 (1980), 221-254.

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- [17] C.Parenti, L.Rodino, **On general pseudodifferential operators**, Comm. Partial Differential Equations, 5 (1980), 561- 594.
- [18] L.Rodino, **Gevrey hypoellipticity for a class of operators with multiple characteristics**, Astérisque, 89-90 (1981), 249-262.
- [19] M.Mascarello, L.Rodino, **A class of pseudo differential operators with multiple noninvolutive characteristics**, Ann. Scuola Norm. Sup. Pisa, Ser. IV, 8 (1981), 575-603.
- [20] L.Rodino, **Microlocal analysis for spatially inhomogeneous pseudo differential operators**, Ann. Scuola Norm. Sup. Pisa, Ser. IV, 9 (1982), 211-253.
- [21] D.Delbosco, L.Rodino, **On the Hamiltonian flow associated to the symbol of a general pseudo differential operator**, Rend. Sem. Mat. Università Politecnico Torino, spec. iss. "Linear partial and pseudo differential operators", (1983), 101- 104.
- [22] L.Rodino, **On the Gevrey wave front set of the solutions of a quasi-elliptic equation**, Rend. Sem. Mat. Università Politecnico Torino, spec. iss. "Linear partial and pseudo differential operators", (1983), 221-234.
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- [29] L.Rodino, **Tricomi function and other special functions in the study of the hypoellipticity**, in "Mathematical Analysis", Teubner-Texte Math., 79, (1985), 203-219.
- [30] L.Rodino, **Risolubilità locale per equazioni a derivate parziali lineari**, Sem. Analisi Mat. Bologna, 1984-85, Centro Stampa lo Scarabeo (1986), conf. n. 13, 1-11.
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- 104 T.Gramchev, S.Pilipovic, L.Rodino, Classes of degenerate elliptic operators in Gelfand-Shilov spaces, Proceedings ISAAC Conference, Ankara 2007, Birkhauser, Basel 2008.
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- 109 M.Cappiello, T.Gramchev, L.Rodino, Entire extensions and exponential decay for semilinear elliptic equations, preprint 2008.
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