

Piero Marcati

Curriculum (short version)

Curriculum Vitae of Pierangelo Marcati

Born in Civitavecchia (Roma) 11-06-1953, L'Aquila resident.

Degree in Matematica - Roma November 15 - 1976, cum Laude

Junior CNR Fellow 1975-76

CNR Fellow, November 16 - 1976 - October 31 - 1981 (Roma and Trento)

Present Positions and Services

Professor of Analisi Matematica (MAT/05) at Universita' dell' Aquila

Previous Academic Positions

Ricercatore Confermato Universita' dell' Aquila 1984 – 1989

Professor University of Maryland College Park USA, 1987-1989

Professor City University di Hong Kong 1998, Spring Quarter

Previous Scientific Services

Scientific Director EU - IP -LLP “MathNanosci” 2009-2011

National Italian Delegate OCSE (OECD) Global Science Forum “Mathematics of Industry” since March 2007.

Member Board of Directors INdAM (Ist. Naz. Alta Matematica) 2003-2007

Member Steering Committee European network HyKe-RTN European Union Network, Contract: HPRN-CT-2002-00282;

Coordinator (EU 4th Framework Prog.) TMR Project HCL contract: ERB-FMRX-CT96-0033;

ERCOM (European Res. Centers in Math.), Committee of European Math. Society, Member; 2003-2007

Member Applied Mathematics Committee European Mathematical Society 2007-2010

Research agencies Evaluator

Panel Evaluator European Union - European Research Council (People)– PE1

Referee e panel member della Unione Europea Marie Curie – 2009 program

Evaluator European Research Council

Evaluator National Science Foundation USA

Evaluator AERES France

Evaluator ANR France

Visiting Professor

(short list): Mittag - Leffler, Stockolma (fall 2005);

Newton Inst., Univ. Cambridge UK (febbraio-marzo 2003),

Max Planck Inst. Leipzig (giugno 2000),

Schroedinger Inst. Wien (1998);

Stanford Univ. (2008,1999,1997),

Univ. Autonoma Madrid (sett. 96, ott. 95),

Institute for Adv. Studies Princeton (giugno 94),

Academia Sinica Beijing - China (1993),

Inst. Mathematics and Applications, Minneapolis (1991, 2009);

Pubblicazioni

MR3048210 Chen, Li; Donatelli, Donatella; Marcati, Pierangelo; Incompressible Type Limit Analysis of a Hydrodynamic Model for Charge-Carrier Transport. SIAM J. Math. Anal. 45 (2013), no. 3, 915–933.

MR3002426 Di Michele, F. ; Marcati, P.; Rubino, B. Steady states and interface transmission conditions for heterogeneous quantum-classical 1-D hydrodynamic model of semiconductor devices. Phys. D 243 (2013), 1–13. 82D37

MR2968593 Donatelli, Donatella; Marcati, Pierangelo Analysis of oscillations and defect measures for the quasineutral limit in plasma physics. Arch. Ration. Mech. Anal. 206 (2012), no. 1, 159–188. 82D10 (35Q35)

MR2921870 Donatelli, Donatella; Marcati, Pierangelo Low Mach number limit on exterior domains. Acta Math. Sci. Ser. B Engl. Ed. 32 (2012), no. 1, 164–176. (Reviewer: Tong Yang) 35Q35 (35L50 35L65 76N10 76R50)

MR2885568 Antonelli, Paolo; Marcati, Pierangelo The quantum hydrodynamics system in two space dimensions. Arch. Ration. Mech. Anal. 203 (2012), no. 2, 499–527. 82Dxx (35Q35)

MR2856996 Antonelli, Paolo; Marcati, Pierangelo Finite energy weak solutions to the quantum hydrodynamics system. *Nonlinear conservation laws and applications*, 205–216, IMA Vol. Math. Appl., 153, Springer, New York, 2011. 35Q35 (35D30 35M31 35Q40 76Y05)

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MR2865432 Donatelli, Donatella; Marcati, Pierangelo Leray weak solutions of the incompressible Navier Stokes system on exterior domains via the artificial compressibility method. Indiana Univ. Math. J. 59 (2010), no. 5, 1831–1852. (Reviewer: Joel David Avrin) 35Q30 (35D30 76D03)

MR2605231 Antonelli, Paolo; Marcati, Pierangelo On the finite weak solutions to a system in quantum fluid dynamics. *Hyperbolic problems: theory, numerics and applications*, 359–368, Proc. Sympos. Appl. Math., 67, Part 2, Amer. Math. Soc., Providence, RI, 2009. 35Q35 (35D30 35Q40 82D37 82D50 82D55)

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MR2605225 Donatelli, Donatella; Marcati, Pierangelo Applications of dispersive estimates to the acoustic pressure waves for incompressible fluid problems. *Hyperbolic problems: theory, numerics and applications*, 279–297, Proc. Sympos. Appl. Math., 67, Part 1, Amer. Math. Soc., Providence, RI, 2009. (Reviewer: Igor B. Bakholdin) 35Q30 (35L65 35Q60 76D33 76Q05)

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MR2481754 Antonelli, Paolo; Marcati, Pierangelo On the finite energy weak solutions to a system in quantum fluid dynamics. Comm. Math. Phys. 287 (2009), no. 2, 657–686. 82D50 (35D30 35Q35 76Y05 82D37 82D55)

MR2472147 Indexed Marcati, Pierangelo Preface II: Angelo Marcello Anile (1948–2007). Kinet. Relat. Models 2 (2009), no. 1, v–vii. 01A70

MR2549180 Indexed Donatelli, D.; Marcati, P. Artificial compressibility approximation for the incompressible Navier-Stokes equations on unbounded domain. *Hyperbolic problems: theory, numerics, applications*, 475–483, Springer, Berlin, 2008. 35Q35 (76D05)

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MR2416657 Gasser, Ingenuin; Marcati, Pierangelo On a generalization of the "div-curl lemma". *Osaka J. Math.* 45 (2008), no. 1, 211–214. (Reviewer: Sergey Nikolaevich Alekseenko) 35L65 (35F05)

MR2376322 Donatelli, D.; Marcati, P. A quasineutral type limit for the Navier-Stokes-Poisson system with large data. *Nonlinearity* 21 (2008), no. 1, 135–148. (Reviewer: Milton C. Lopes Filho) 35Q35 (35Q30 76D05 76W05 76X05 82D10)

MR2238743 Donatelli, Donatella; Marcati, Pierangelo A dispersive approach to the artificial compressibility approximations of the Navier-Stokes equations in 3D. *J. Hyperbolic Differ. Equ.* 3 (2006), no. 3, 575–588. (Reviewer: Yue-Jun Peng) 35Q30 (35B35 35Q35 76D03 76D05)

MR2192850 Marcati, Pierangelo; Mei, Ming; Rubino, Bruno Optimal convergence rates to diffusion waves for solutions of the hyperbolic conservation laws with damping. *J. Math. Fluid Mech.* 7 (2005), suppl. 2, S224–S240. 35L60 (35L50 76R50 76S05)

MR2185857 Huang, Feimin; Marcati, Pierangelo; Pan, Ronghua Convergence to the Barenblatt solution for the compressible Euler equations with damping and vacuum. *Arch. Ration. Mech. Anal.* 176 (2005), no. 1, 1–24. (Reviewer: Yue-Jun Peng) 76N10 (35L65 35Q35 76S05)

MR2039696 Li, Hailiang; Marcati, Pierangelo Existence and asymptotic behavior of multi-dimensional quantum hydrodynamic model for semiconductors. *Comm. Math. Phys.* 245 (2004), no. 2, 215–247. (Reviewer: Alexander M. Blokhin) 82D37

MR2031055 Donatelli, Donatella; Marcati, Pierangelo Convergence of singular limits for multi-D semilinear hyperbolic systems to parabolic systems. *Trans. Amer. Math. Soc.* 356 (2004), no. 5, 2093–2121 (electronic). (Reviewer: Peter R. Popivanov) 35L40 (35B25 35K40)

MR1978385 Marcati, Pierangelo; Nishihara, Kenji The L_p - L_q estimates of solutions to one-dimensional damped wave equations and their application to the compressible flow through porous media. *J. Differential Equations* 191 (2003), no. 2, 445–469. (Reviewer: Florin Iacob) 35L15 (35B45 76N10 76S05)

MR1970037 Lattanzio, Corrado; Marcati, Pierangelo Global well-posedness and relaxation limits of a model for radiating gas. *J. Differential Equations* 190 (2003), no. 2, 439–465. (Reviewer: Stanisław Burys) 35L60 (35B25 35B30 35Q53 76N10)

[MR1969516](#) [Gasser, Ingenuin](#); [Marcati, Pierangelo](#) A quasi-neutral limit in the hydrodynamic model for charged fluids. *Monatsh. Math.* 138 (2003), no. 3, 189–208. (Reviewer: Stephen Wollman) [76W05](#) ([35Q35](#) [76X05](#))

[MR1944158](#) [Donatelli, Donatella](#); [Marcati, Pierangelo](#) Singular limits for nonlinear hyperbolic systems. *Evolution equations, semigroups and functional analysis (Milano, 2000)*, 79–96, *Progr. Nonlinear Differential Equations Appl.*, 50, *Birkhäuser, Basel*, 2002. (Reviewer: L. Hsiao) [35L60](#) ([35B25](#))

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[MR1927027](#) [Di Francesco, M.](#); [Marcati, P.](#) Singular convergence to nonlinear diffusion waves for solutions to the Cauchy problem for the compressible Euler equations with damping. *Math. Models Methods Appl. Sci.* 12 (2002), no. 9, 1317–1336. (Reviewer: L. Hsiao) [76N10](#) ([35Q35](#) [76S05](#))

[MR1882942](#) [Indexed](#) [Gasser, Ingenuin](#); [Marcati, Pierangelo](#) A vanishing Debye length limit in a hydrodynamic model for semiconductors. *Hyperbolic problems: theory, numerics, applications, Vol. I, II (Magdeburg, 2000)*, 409–414, *Internat. Ser. Numer. Math.*, 140, 141, *Birkhäuser, Basel*, 2001. [82D37](#) ([35L60](#))

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[MR1882931](#) [Indexed](#) [Donatelli, Donatella](#); [Marcati, Pierangelo](#) Parabolic relaxation of semilinear multidimensional hyperbolic systems. *Hyperbolic problems: theory, numerics, applications, Vol. I, II (Magdeburg, 2000)*, 307–316, *Internat. Ser. Numer. Math.*, 140, 141, *Birkhäuser, Basel*, 2001. [35L60](#)

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[MR1808684](#) [Gasser, Ingenuin](#); [Marcati, Pierangelo](#) The combined relaxation and vanishing Debye length limit in the hydrodynamic model for semiconductors. *Math. Methods Appl. Sci.* 24 (2001), no. 2, 81–92. (Reviewer: Roberto Natalini) [82D37](#) ([35L65](#))

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[MR1788427](#) [Marcati, Pierangelo](#); [Mei, Ming](#) Convergence to nonlinear diffusion waves for solutions of the initial boundary problem to the hyperbolic conservation laws with damping. *Quart. Appl. Math.* 58 (2000), no. 4, 763–784. (Reviewer: Albert J. Milani) [35L65](#) ([35A05](#) [35B40](#))

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MR1765690 Donatelli, Donatella; Marcati, Pierangelo Relaxation of semilinear hyperbolic systems with variable coefficients. Papers in memory of Ennio De Giorgi (Italian). Ricerche Mat. 48 (1999), suppl., 295–310. (Reviewer: Denis Serre) 35L45

MR1724662 Lattanzio, Corrado; Marcati, Pierangelo Asymptotic stability of plane diffusion waves for the 2-D quasilinear wave equation. Nonlinear partial differential equations (Evanston, IL, 1998), 163–182, Contemp. Math., 238, Amer. Math. Soc., Providence, RI, 1999. (Reviewer: Nickolai A. Lar'kin) 35B40 (35L70)

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MR1705765 Lattanzio, Corrado; Marcati, Pierangelo The zero relaxation limit for 2×2 hyperbolic systems. Nonlinear Anal. 38 (1999), no. 3, Ser. A: Theory Methods, 375–389. (Reviewer: L. Hsiao) 35L45

MR1694807 Marcati, Pierangelo; Molinari, Manuela Evolution of hypersurfaces in \mathbf{R}^N by Gaussian curvature. NoDEA Nonlinear Differential Equations Appl. 6 (1999), no. 2, 119–132. (Reviewer: Barbara Priwitzer) 53C44 (35K55)

MR1665756 Lattanzio, Corrado; Marcati, Pierangelo The relaxation to the drift-diffusion system for the 3-D isentropic Euler-Poisson model for semiconductors. Discrete Contin. Dynam. Systems 5 (1999), no. 2, 449–455. (Reviewer: J. W. Jerome) 35Q99 (35L99 76X05 82D99)

MR1708525 Marcati, Pierangelo; Rubino, Bruno Hyperbolic to parabolic relaxation for quasilinear first order systems in several space dimensions. Proceedings of the IX International Conference on Waves and Stability in Continuous Media (Bari, 1997). Rend. Circ. Mat. Palermo (2) Suppl. 1998, no. 57, 315–320. (Reviewer: Si Ning Zheng) 35L65 (35K55)

MR1708522 Lattanzio, Corrado; Marcati, Pierangelo Diffusive profile for the 2-D nonlinear damped wave equation. Proceedings of the IX International Conference on Waves and Stability in Continuous Media (Bari, 1997). Rend. Circ. Mat. Palermo (2) Suppl. 1998, no. 57, 293–302. (Reviewer: Shu-Xing Chen) 35L70 (35B20)

MR1613164 Marcati, Pierangelo; Natalini, Roberto Global weak entropy solutions to quasilinear wave equations of Klein-Gordon and sine-Gordon type. J. Math. Soc. Japan 50 (1998), no. 2, 433–449. (Reviewer: Valery Covachev) 35L70 (35B60 35D05)

MR1486714 Marcati, Pierangelo; Rubino, Bruno Entropy methods for nonstrictly hyperbolic systems. J. Partial Differential Equations 10 (1997), no. 4, 333–346. (Reviewer: Ralph Saxton) 35L70 (35D05)

MR1485946 Lattanzio, Corrado; Marcati, Pierangelo The zero relaxation limit for the hydrodynamic Whitham traffic flow model. *J. Differential Equations* 141 (1997), no. 1, 150–178. (Reviewer: Hermano Frid) 35L65 (35Q30 90B20)

MR1468503 Marcati, P. A.; Natalini, R. Entropy solutions for a hydrodynamic model for semiconductors. *Nonlinear evolutionary partial differential equations (Beijing, 1993)*, 311–317, AMS/IP Stud. Adv. Math., 3, Amer. Math. Soc., Providence, RI, 1997. 35Q99 (35D05 76N10 76X05 82D99)

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MR1461088 Marcati, Pierangelo; Rubino, Bruno Parabolic relaxation limit for hyperbolic systems of conservation laws. Proceedings of the VIII International Conference on Waves and Stability in Continuous Media, Part I (Palermo, 1995). *Rend. Circ. Mat. Palermo (2) Suppl. No. 45, part I* (1996), 393–406. (Reviewer: Pavel Dubovskii) 35L65 (35D99)

MR1446027 Marcati, P. A.; Natalini, R. On the hydrodynamic model for semiconductors and the relaxation to the drift-diffusion equation. *Hyperbolic problems: theory, numerics, applications (Stony Brook, NY, 1994)*, 198–206, *World Sci. Publ., River Edge, NJ*, 1996. (Reviewer: Yuanming Wang) 35Q99 (76X05 78A35 78A55)

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MR1401440 Marcati, Pierangelo Weak solutions to a nonlinear partial differential equation of mixed type. *Differential Integral Equations* 9 (1996), no. 4, 827–848. 35M10 (35B99)

MR1475938 Indexed Marcati, P. A.; Natalini, R. Relaxation phenomena for the hydrodynamic models in semiconductors. *Mathematical problems in semiconductor physics (Rome, 1993)*, 153–164, *Pitman Res. Notes Math. Ser.*, 340, Longman, Harlow, 1995. 82D99 (35Q35 35Q99 78A55)

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MR1328473 Marcati, Pierangelo; Natalini, Roberto Weak solutions to a hydrodynamic model for semiconductors and relaxation to the drift-diffusion equation. *Arch. Rational Mech. Anal.* 129 (1995), no. 2, 129–145. (Reviewer: Vladimir V. Shelukhin) 65M06 (35Q35 76R50)

MR1318626 Marcati, Pierangelo; Natalini, Roberto Weak solutions to a hydrodynamic model for semiconductors: the Cauchy problem. *Proc. Roy. Soc. Edinburgh Sect. A* 125 (1995), no. 1, 115–131. (Reviewer: Bruno Scheurer) 35Q60 (35D05 35L45 76X05 82D99)

MR1297281 Marcati, Pierangelo; Natalini, Roberto Convergence of the pseudo-viscosity approximation for conservation laws. *Nonlinear Anal.* 23 (1994), no. 5, 621–628. (Reviewer: Xabier Garaizar) 35L65 (35B25 35L67)

MR1214784 Esteban, Juan R.; Marcati, Pierangelo Approximate solutions to first and second order quasilinear evolution equations via nonlinear viscosity. *Trans. Amer. Math. Soc.* 342 (1994), no. 2, 501–521. (Reviewer: Mitsuhiro Nakao) 35A35 (35K65 35L45)

MR1191722 Marcati, Pierangelo; Milani, Albert Fluid flow in macromolecular systems and related perturbation problems. Ann. Fac. Sci. Toulouse Math. (5) 11 (1990), no. 3, 73–92. 35Q35 (76A99 76D05 76S05)

MR1042662 Marcati, Pierangelo; Milani, Albert The one-dimensional Darcy's law as the limit of a compressible Euler flow. J. Differential Equations 84 (1990), no. 1, 129–147. (Reviewer: A. Elcrat) 35Q30 (35B25 76N10 76S05)

MR1020186 Marcati, Pierangelo Convergence of approximate solutions to scalar conservation laws by degenerate diffusion. Rend. Sem. Mat. Univ. Padova 81 (1989), 65–78. (Reviewer: Long Wei Lin) 35L65 (35B25)

MR0990088 Marcati, P. A result on hyperbolic aspects in the theory of porous media. Boll. Un. Mat. Ital. A (7) 3 (1989), no. 1, 69–75. 35K55 (35L99 35Q20)

MR1001030 Hsiao, L.; Marcati, P. Nonhomogeneous quasilinear hyperbolic system arising in chemical engineering. Ann. Scuola Norm. Sup. Pisa Cl. Sci. (4) 15 (1988), no. 1, 65–97 (1989). (Reviewer: R. G. Airapetyan) 35L60 (65P05)

MR0974612 Marcati, Pierangelo Nonhomogeneous quasilinear hyperbolic systems: initial and boundary value problems. Calculus of variations and partial differential equations (Trento, 1986), 193–200, Lecture Notes in Math., 1340, Springer, Berlin, 1988. (Reviewer: Long Wei Lin) 35L60

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MR0920759 Marcati, Pierangelo; Milani, Albert J.; Secchi, Paolo Singular convergence of weak solutions for a quasilinear nonhomogeneous hyperbolic system. Manuscripta Math. 60 (1988), no. 1, 49–69. 35L60 (35B25 35D99)

MR0917603 Marcati, Pierangelo Approximate solutions to conservation laws via convective parabolic equations. Comm. Partial Differential Equations 13 (1988), no. 3, 321–344. (Reviewer: Claude Carasso) 35L65 (35K55 65P05)

MR0922098 Marcati, P. Approximate solutions to scalar conservation laws via degenerate diffusion. Hyperbolic equations (Padua, 1985), 272–277, Pitman Res. Notes Math. Ser., 158, Longman Sci. Tech., Harlow, 1987. (Reviewer: Claude Carasso) 35L65 (35B25)

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MR0921910 Marcati, Pierangelo Approximate solutions to conservation laws via convective parabolic equations: analytical and numerical results. Dynamics of infinite-dimensional systems (Lisbon, 1986), 169–177, NATO Adv. Sci. Inst. Ser. F Comput. Systems Sci., 37, Springer, Berlin, 1987. (Reviewer: Claude Carasso) 35L65 (35K55 65P05)

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MR0857739 Marcati, Pierangelo Almost periodic solutions for a semilinear quasi-autonomous hyperbolic problem. Nonlinear Anal. 10 (1986), no. 10, 1053–1067. (Reviewer: Marshall Slemrod) 35B15

MR0841985 Marcati, Pierangelo Abstract stability theory and applications to hyperbolic equations with time dependent dissipative force fields. *Hyperbolic partial differential equations, III. Comput. Math. Appl. Part A* **12** (1986), no. 4-5, 541–550. (Reviewer: Jaroslav Barták) [34G20](#) ([34D99](#) [35B35](#) [35L99](#))

MR0831301 Marcati, Pierangelo; Valli, Alberto Almost-periodic solutions to the Navier-Stokes equations for compressible fluids. *Boll. Un. Mat. Ital. B* (6) **4** (1985), no. 3, 969–986. (Reviewer: Yoshikazu Giga) [35Q10](#) ([35B15](#) [76D05](#))

MR0787437 Marcati, P. On a nonconservative hyperbolic system describing the nonlinear age dependent populations growth. *Hyperbolic partial differential equations, II. Comput. Math. Appl.* **11** (1985), no. 1-3, 207–222. (Reviewer: Brian D. Sleeman) [92A15](#) ([35L99](#))

MR0759826 Marcati, Pierangelo Decay and stability for nonlinear hyperbolic equations. *J. Differential Equations* **55** (1984), no. 1, 30–58. (Reviewer: C. Bardos) [35B40](#) ([35L70](#))

MR0738009 Marcati, Pierangelo Stability for second order abstract evolution equations. *Nonlinear Anal.* **8** (1984), no. 3, 237–252. (Reviewer: John M. Ball) [34G20](#) ([35B35](#) [73K05](#))

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MR0728027 Marcati, Pierangelo Asymptotic behavior of the renewal equation arising in the Gurtin population model. *Nonlinear phenomena in mathematical sciences (Arlington, Tex., 1980)*, 655–662, *Academic Press, New York*, 1982. (Reviewer: O. Diekmann) [92A15](#)

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MR0684935 Marcati, P. On the global stability of the logistic age-dependent population growth. *J. Math. Biol.* **15** (1982), no. 2, 215–226. (Reviewer: G. J. Butler) [92A15](#) ([34K20](#))

MR0635243 Marcati, Pierangelo Asymptotic behavior in age-dependent population dynamics with hereditary renewal law. *SIAM J. Math. Anal.* **12** (1981), no. 6, 904–916. (Reviewer: G. F. Webb) [92A15](#) ([35Q99](#))

MR0661425 Marcati, Pierangelo; Pozio, M. Assunta Global asymptotic stability for a vector disease model with spatial spread. *J. Math. Biol.* **9** (1980), no. 2, 179–187. (Reviewer: H. W. Hethcote) [92A15](#) ([35Q99](#))

MR0546488 Marcati, Pierangelo; Serafini, Renato Asymptotic behaviour in age dependent population dynamics with spatial spread. *Boll. Un. Mat. Ital. B* (5) **16** (1979), no. 2, 734–753. (Reviewer: J. M. Cushing) [92A15](#) ([35B40](#))

