B. A. TAYLOR

Department of Mathematics University of Michigan Ann Arbor, MI 48109

- An application of the corona theorem to some rings of entire functions (with J. J. Kelleher), Bull. Amer. Math. Soc. 73(1967), 246-249
- (2) Uniqueness theorems for entire functions of one and several complex variables (with L. A. Rubel), Proc. Camb. Phil. Soc. 64 (1968), 71-82
- (3) Some locally convex spaces of entire functions, Entire Functions and Related Parts of Analysis, Proceedings of Symposia in Pure Mathematics, II, Amer. Math. Soc. (1968), 431-467
- (4) The fields of quotients of some rings of entire functions, Entire Functions and Related Parts of Analysis, Proceedings of Symposia in Pure Mathematics, II, Amer. Math. Soc., (1968), 431-467
- (5) A completeness theorem for entire functions (with L. A. Rubel), Indian J. Math., 32 (1968), 195-198
- (6) Weighted polynomial approximation on the integers (with L. A. Rubel), Ark. der Math. 19 (1968), 511-515
- (7) A Fourier series method for meromorphic and entire functions, (with L. A. Rubel), Bull. Math. Soc. France 96 (1969), 53-96. Research announcement of same title in Bull. Amer. Math. Soc. 72 (1966), 858-860
- (8) Functional analysis proofs of some theorems in function theory (with L. A. Rubel), Amer. Math. Monthly 76 (1969), 483-489
- (9) The peak sets of A^∞ (with D. L. Williams), Proc. Amer. Math. Soc. 24 (1970), 604-606

Typeset by $\mathcal{A}_{\!\mathcal{M}}\!\mathcal{S}\text{-}T_{\!E}\!X$

B. A. TAYLOR

- (10) Ideals in rings of analytic functions with smooth boundary values (with D. L. Williams), Canad. J. Math. 22 (1970), 1266-1283
- (11) Weighted polynomial approximation of entire functions, Pacific J. Math. 36 (1971), 515-522
- (12) Analytically uniform spaces of infinitely differentiable functions, Comm. Pure Appl. Math. 24 (1971), 39-52
- (13) Zeros of Lipshitz functions analytic in the unit disc (with D. L. Williams), Mich. Math. J. 18 (1971), 129-140
- (14) A seminorm topology for some (D-F) spaces of entire functions, Duke Math. J. 38 (1971), 379-386
- (15) The interpolating sets for A^{∞} (with H. J. Alexander and D. L. Williams), J. Math. Anal. Appl. 36 (1971), 556-566
- (16) Finitely generated ideals in rings of analytic functions (with J. J. Kelleher), Math. Annalen 193 (1971), 225-237
- (17) Discrete sufficient sets for entire functions, Trans. Amer. Math. Soc. 163 (1972), 207-214
- (18) Interpolation of l^q sequences by H^p functions (with D. L. Williams), Proc. Amer. Math. Soc. 34 (1972), 181-186
- (19) The entire functions separate βC (with J. J. Kelleher), Proc. Amer. Math. Soc. 33 (1972), 505-506
- (20) Areas of projections of analytic sets (with H. J. Alexander and J. L. Ullman), Inv. Math. 16 (1972), 335-341
- (21) Boundary zero sets of A^{∞} functions satisfying growth conditions (with D. L. Williams), Proc. Amer. Math. Soc. 35 (1972), 155-160
- (22) Closed ideals in locally convex algebras of entire functions (with J. J. Kelleher), J. Reine Angew. Math. 255 (1972), 190-209
- (23) Spectral synthesis and the Pompieu problem (with L. Brown and B. Schreiber), Ann. Inst. Fourier Grenoble 23 (1973), 125-154
- (24) Mergelyan sets and the modulus of continuity of analytic functions (with L. A. Rubel and A. L. Shields), J. Approx. Theory 15 (1975), 23-40
- (25) Components of zero sets of analytic functions in \mathbb{C}^2 in the unit ball and polydisc, Pacific J. Math. 59 (1975), 253-265
- (26) Spherical rearrangements, subharmonic functions, and *-functions in n-space (with A. Baernstein, II), Duke Math. J. 43 (1976)245-268

- (27) The Dirichlet problem for a complex Monge-Ampère equation (with Eric Bedford), Inv. Math 37 (1976), 1-44. Research announcement of same title in Bull. Amer. Math. Soc. 82 (1976), 102-104
- (28) The Dirichlet problem for the multidimensional Monge-Ampère equation (with J. B. Rauch), Rocky Mountain J. Math. 7 (1977) 345-364
- (29) The "three-squares" theorem for continuous functions (with C. A. Berenstein), Arch. Rat. Meh. Anal. 63 (1977), 253-259
- (30) Variational properties of the complex Monge-Ampère equation. I. Dirichlet principle (with Eric Bedford), Duke Math. J. 45 (1978), 375-403
- (31) Irreducibility of certain entire functions (with L. A. Rubel and W. A. Squires), Ann. of Math. 108 (1978), 553-567
- (32) The Dirichlet problem for an equation of complex Monge-Ampère type (with Eric Bedford), Partial Differential Equations and Geometry, ed. by C. Byrnes, 39-50, Dekker (1979)
- (33) Variational properties of the complex Monge-Ampère equation. II. Intrinsic norms (with Eric Bedford), Amer. J. Math. 101 (1979), 1131-1166
- (34) A new look at interpolation theory for entire functions of one variable (with C. A. Berenstein), Adv. in Math. 33 (1979), 109-143
- (35) Two applications of a nonlinear integral formula to analytic functions (with Eric Bedford), Indiana Univ. Math. J. 29 (1980), 463-465
- (36) Interpolation problems in \mathbb{C}^n with applications to harmonic analysis (with C. A. Berenstein), J. d'Analyse Math. 38 (1980), 188-254
- (37) An example of a rigid partial differential equation (with L. A. Rubel), Jour. Diff. Eq. 38 (1980), 199-325
- (38) Mean-periodic functions (with C. A. Berenstein), Int. J. Math and Math. Sci. 3 (1980), 199-235
- (39) A new proof of absence of positive discrete spectrum of the Schrodinger operator (with A. G. Ramm), J. Math. Phys. 21 (1980), 2395-2397
- (40) On the geometry of interpolating varieties (with C. A. Berenstein), Sem. Pierre Lelong Henri Skoda (Analyse), 1980/81 and Colloquium at Wimeroux, May 1981, Lecture notes in Math 919 (1982), 1-25
- (41) A new capacity for plurisubharmonic functions (with E. Bedford), Acta Math. 149 (1982), 1-40
- (42) Linear extension operators for entire functions, Mich. Math. J. 29 (1982), 185-197

B. A. TAYLOR

- (43) Sur les systemes d'équations différence-différentielles (with C. A. Berenstein and A. Yger), Ann. Inst. Fourier Grenoble 33 (1983), 109-130
- (44) Sur quelques formules explicites de déconvolution (with C. A. Berenstein and A. Yger), J. Optics (Paris) 14 (1983), 75-82
- (45) An estimate for an extremal plurisubharmonic function in \mathbb{C}^n , Sem. d'Analyse, P. Lelong - P. Dolbeault - H. Skoda, 1982-83, Lecture Notes in Math. 1028 (1983), 318-328
- (46) Comparison of two capacities in \mathbb{C}^n (with H. Alexander), Math. Zeit. 186 (1984), 407-417
- (47) Comparison of capacities in \mathbb{C}^n (with N. Levenberg), Analyse Complexe, Proceedings, Toulouse, 1983, Lecture Notes in Mathematics, No. 1094(1984), 162-172
- (48) Lower bounds for high priority delay in telecommunication networks (with S. L. Hantler and H. Putz), IBM T. J. Watson Research Center RC 10595, 1/31/85
- (49) On kernels of slowly decreasing convolution operators (with R. Meise and K. Schwerdtfeger), Doga, Tr. J. Math. 10 (1986), 54-82
- (50) The complex equilibrium measure of a symmetric convex set in \mathbb{C}^n (with E. Bedford), Trans. Amer. Math. Soc. 294(1986), 705-718
- (51) Analysis of a nonpreemptive priority two server queue (with R. Gail and S. Hantler), IBM T. J. Watson Research Center RC 11951, 6/13/86
- (52) Opérateurs linéaires continus d'extension pour les fonctions ultradifférentiables sur des intervalles compacts, C. R. Acad. Sc. Paris, 302 (1986), 219-222
- (53) Sequence space representations for (FN)-algebras of entire functions modulo closed ideals (with R. Meise), Studia Math. 85 (1987), 203-227
- (54) Fine topology, Shilov boundary, and $(dd^c)^n$ (with E.Bedford), J. Fcnal Anal. 72 (1987), 225-251
- (55) Splitting of closed ideals in (DFN)-algebras of entire functions and the property (DN), (with R. Meise), Trans. Amer. Math Soc. 302 (1987), 341-370
- (56) Splitting of slowly decreasing ideals in weighted algebras of entire functions (with R. Meise and S. Momm), Complex Analysis II, (College Park, Md., 1985-86), 229-252, Lecture Notes in Math., 1276, Springer, Berlin-New York, 1987)
- (57) Example of a potential in a one-dimensional scattering problem for which there are infinitely many purely imaginary resonances (with A. G. Ramm), Physics Letters A, 124 (1987), 313-319
- (58) Equivalence of slowly decreasing conditions and local Fourier expansions (with R. Meise and D. Vogt), Ind. Univ. Math J. 36 (1987), 729-756

- (59) Each non-zero convolution operator on the entire functions admits a continuous linear right inverse (with R. Meise), Math. Zeit. 197 (1988), 139-152
- (60) On a preemptive Markovian queue with multiple servers and two priority classes (with H. R. Gail and S. L. Hantler), IBM Research Report RC 13783, 6/8/88, 41 pages
- (61) Charactérisation des opérateurs linéaires aux dérivées partielles avec coefficients constants sur $\mathcal{E}(\mathbf{R}^N)$ admettant un inverse à droite qui est linéaire et continu (with R. Meise and D. Vogt), C. R. Acad. Sc. Paris, 307 (1988), 239-242
- (62) Smooth plurisubharmonic functions without subextension (with E. Bedford), Math. Zeit. 198 (1988), 331-337
- (63) Whitney's extension theorem for ultradifferentiable functions of Beurling type (with R. Meise), Arkiv för Mat. 26 (1988), 265-287
- (64) Plurisubharmonic functions with logarithmic singularities (with E. Bedford), Ann. Inst. Fourier Gren. 38 (1988), 133-171
- (65) Analysis of a nonpreemptive priority multiserver queue (with H. R. Gail and S. Hantler), Advances in Applied Probablility 20 (1988), 852-879
- (66) Linear extension operators for ultradifferentiable functions of Beurling type on compact sets (with R. Meise), Amer. J. Math. 111 (1989),309-337
- (67) Uniqueness for the Complex Monge-Ampère equation for functions of logarithmic growth (with E. Bedford), Ind. Univ. Math. J. 38 (1989), 455-469
- (68) Partial differential operators with continuous linear right inverse (with R. Meise and D. Vogt), in Advances in the Theory of Fréchet spaces, T. Terzioğlu (Ed.), NATO ASI Series C, Vol 287 (Kluwer), 1989, 47-62
- (69) Whitney's extension theorem for ultradifferentiable functions of Romieu type (with J. Bonet and R. Meise), Proc. R. Ir. Acad. 89A (1989), 53-66
- (70) Partial preemption in a system with two processors (with H. R. Gail and S. L. Hantler), in Performance of Distributed and Parallel Systems, T. Hasegawa, H. Takagi, Y. Takahashi (Eds.), Elsevier Science Publishers, 1989, 209-224, IBM Research Report RC 14058, 10/3/88, 21 pages
- (71) Varieties in a two dimensional polydisk with univalent projections at the boundary (with D. L. Barrett, H. R. Gail, S. L. Hantler) IBM Research Report RC15848 (62 pages), May 1990
- (72) Ultradifferentiable functions and Fourier Analysis (with R.W. Braun and R. Meise), Res. Math. 17, 206-237 (1990)

- (73) Characterization of the linear partial differential operators with constant coefficients that admit a continuous linear right inverse (with R. Meise and D. Vogt), Ann. Inst. Fourier Gren. 40 (1990), 619-656
- (74) A generalized Cousin problem for subvarieties of the bidisk (with D. E. Barrett), In Aspects of Mathematics, Complex Analysis, Proceedings of the International Workshop, Wuppertal, 1990, p. 29-32
- (75) Equivalence of analytic and plurisubharmonic Phragmén-Lindelöf principles (with R. Meise and D. Vogt), Proc. Symp. Pure Math., Vol 52 (1991), 287-308
- (76) Indicators of Plurisubharmonic functions on Algebraic Varieties and Kaneko's Phragmén-Lindelöf Condition (with R. Meise and D. Vogt), in "Geometrical and Algebraical Aspects in Several Complex Variables", C.A. Berenstein and D. Struppa, (Eds.), 231-250 (EditEL 1991)
- (77) Whitney's extension theorem for non-quasianalytic classes of ultradifferentiable functions (with J. Bonet, R. Braun, and R. Meise), Studia Math. 99 (1991), 155-184
- (78) On the range of the Borel map for classes of non-quasianalytic functions, (with J. Bonet and R. Meise), Progress in Functional Analysis, K. D. Bierstedt et. al., 1992, Elsevier Science Publishers
- (79) On A Preemptive Markovian Queue With Multiple Servers And Two Priority Classes (with H. R. Gail and S. L. Hantler), Mathematics of Operations Research, 17 (1992), 365-391
- (80) Continuous linear right inverses for partial differential operators with constant coefficients and Phragmén-Lindelöf conditions' (with R. Meise and D. Vogt), in 'Functional Analysis', K.D. Bierstedt, A. Pietsch, W.M. Ruess, and D. Vogt (Eds.), Marcel Dekker, 357-389 (1993)
- (81) Solutions of the Basic Matrix Equation for M/G/1 and G/M/1 Type Markov chains (with H.R. Gail and S.L. Hantler), Communications in Statistics—Stochastic Models, 10, 1-43 (1994)
- (82) An Analysis of a Class of Telecommunications Models (with H.R. Gail and S.L. Hantler), Performance Evaluation, 21, 1994, 151-161
- (83) Linear independence of root equations for M/G/1 type Markov chains, (with H.R. Gail, S.L. Hantler, and M. Sidi), Queueing Systems 20 (1995) 321-339
- (84) Extremal plurisubharmonic functions of linear growth on algebraic varieties (with R. Meise and D. Vogt), Math. Zeit. 219 (1995), 515-537

- (85) Tangential Markov inequalities characterize algebraic submanifolds of \mathbf{R}^{N} (with L. Bos, N. Levenberg, and P. Milman), Indiana Univ. Math. J., 44 (1995), 115-137
- (86) Spectral Analysis of M/G/1 and G/M/1 Type Markov Chains (with H.R. Gail and S.L. Hantler), Advances in Applied Probability 28 (1996), 114-165, IBM Research report of the same title, RC 17765, 3/10/92 (52 pages)
- (87) On the Bézout problem and area of interpolating varieties in \mathbb{C}^n (with Bao Qin Li), Amer. J. Math 118 (1996), 989-1010
- (88) Continuous linear right inverses for partial differential operators of order 2 and fundamental solutions in half spaces (with R. Meise and D. Vogt), Manuscripta Math. 90 (1996), 449-464
- (89) ω-Hyperbolicity of linear partial differential operators with constant coefficients (with R. Meise and D. Vogt), Complex analysis, harmonic analysis, and applications (Bordeaux, 1995), 157-182, Pitman Res. Notes Math. Ser. 347, Longman, Harlow, 1996
- (90) Continuous linear right inverses for partial differential operators on nonquasianalytic classes and on ultradistributions (with R. Meise and D. Vogt), Math. Nachr. 180 (1996), 213-242
- (91) Right inverses for linear, constant coefficient partial differential operators on distributions over open half spaces (with R. Meise and D. vogt), Arch. Math. 68 (1997), 311-319
- (92) Analysis of nonskip-free M/G/1 and G/M/1 Markov Chains (with H. R. Gail and S. L. Hantler), Adv. in Appl. Prob. 29 (1997), 733-758
- (93) Uniform growth of analytic curves away from real points (with R. Braun and R. Meise), Ark. Mat. 35 (1997), 277-297
- (94) An example concerning radial Phragmèn-Lindelöf estimates for plurisubharmonic functions on algebraic varieties (with R. Braun and R. Meise), Lin. Top. Spaces and Complex Anal., 3, 24-29 (1997)
- (95) Tangential Markov inequalities on real algebraic varieties (with L. P. Bos, N. Levenberg, P. Milman), Indiana Univ. Math. J. 47 (1998), no. 4, 1257-1272
- (96) Phragmén-Lindelöf principles on algebraic varieties, (with R. Meise and D. Vogt), J. Amer. Math. Soc. 11 (1998), 1-39
- (97) Phragmén-Lindelöf principles on algebraic varieties, (with R. Meise and D. Vogt), J. Amer. Math. Soc. 11 (1998), 1-39
- (98) Matrix-geometric invariant measures for G/M/1 type Markov chains (with H. R. Gail and S. L. Hantler), Stochastic Models, 14 (1998)

- (99) Phragmèn-Lindelöf conditions for graph varieties, (with R. Meise), Results Math. 36. (1999). no. 1-2, 121-148
- (100) A radial Phragmèn-Lindelöf estimate for plurisubharmonic functions on algebraic varieties (with R. Braun and R. Meise), Ann. Polon. Math. 72 (1999), no. 2, 159-179
- (101) Algebraic varieties on which the classical Phragmèn-Lindelöf estimates hold for all plurisubharmonic functions (with R. Braun and R. Meise), Math. Z. 232 (1999), no. 1, 103-135
- (102) Characterization of the homogeneous polynomials P_m for which $P_m + Q$ admits a continuous linear right inverse on $\mathcal{D}'(\mathbf{R}^n)$ for all lower order perturbations Q (with R. Braun and R. Meise), Pacific. J. Math. 192 (2000), no. 2, 201-218
- (103) A perturbation result for linear differential operators admitting a global right inverse on D' (with R. Braun and R. Meise), Analysis, geometry, number theory: the mathematics of Leon Ehrenpreis (Philadelphia, PA 1998). 93-106, Contemp. Math., 251, Amer. Math. Soc., Providence, RI, 2000
- (104) Surjectivity of constant coefficient partial differential operators on $\mathcal{A}(\mathbf{R}^4)$ and Whitney's C_4 -Cone (with R. Braun and R. Meise), Bull. Soc. Roy. Sci. Lige, 70(2001), 195-206
- (105) An example concerning the local radial Phragmén-Lindelöf condition, (with R. Braun and R. Meise), Recent Progress in functional analysis (Valencia, 2000), 173-184, North-Holland Math. Stud., 189, North Holland, Amsterdam, 2001
- (106) The local radial Phragmén-Lindelöf condition (with R. Braun and R. Meise), Proc. Amer. Math. Soc. 131 (2003), 2423-2433
- (107) Higher order tangents to analytic varieties along curves (with R. Braun and R. Meise), Canadian J. Math. 55 (2003), 64-90
- (108) Perturbation of differential operators admitting a continuous linear right inverse on ultradistributions, (with R. Braun and R. Meise), Pacific J. Math. 212 (2003), 25-48
- (109) Perturbation results for the local Phragmèn-Lindelöf condition and stable homogeneous polynomials (with R. Braun and R. Meise), RACSAM Rev. R. Acad. Cienc. Exactas Fis. Nat. Ser. A Mat. 97 (2003), 189-208
- (110) The geometry of analytic varieties satisfying the local Phragmén-Lindelöf condition and a geometric characterization of the partial differential operators that are surjective on $A^{\omega}(\mathbf{R}^4)$ (with R. Braun and R. Meise), Trans. Amer. Math. Soc. 356, 2004, 1315-1383

- (111) Optimal Gevrey classes for the existence of solution operators for linear partial differential operators in three variables. (with R. Braun and R. Meise) Special issue dedicated to John Horvath. J. Math. Anal. Appl. 297 (2004), no. 2, 852–868.
- (112) High order approximations at infinity to algebraic varieties, (with R. Braun and R. Meise), (manuscript, 18 pages), to appear in Not di Mat.
- (113) Characterization of the linear partial differential equations that admit solutiion operators on Gevrey classes (with R. Braun and R. Meise), manuscript of 38 pp, to appear in J. Reine Angewandte Math. Items in progress:
- (114) Higher order tangents to analytic varieties along curves, II. (with R. Braun and R. Meise), (manuscript, 23 pages), submitted
- (115) The algebraic surfaces on which the classical Phragmén-Lindelöf theorem holds (with R. Braun and R. Meise), manuscript, 24 pages, submitted
- (116) Nearly hyperbolic varieties and Phragmén-Lindelöf conditions (with R. Braun and R. Miese), to appear in the proceedings of a conference honoring the 60th birthday of Carlos Berenstein.

Miscellaneous

- Commentary in "A Wealth of Potential but an Uncertain Future: Today's Mathematics Departments", Notices of the Amer. Math. Soc., April, 1997, 439-443
- (2) Memorial article commerating the life of Franklin P. Peterson (1930-2000), Notices Amer. Math. Soc., 48 (2001), no. 10, 1161-1168, with coauthors E. H. Brown, F. R. Cohen, F. W. Gehring, and H. R. Miller