

Professor Michael Lin - Scientific Publications

1. M. Lin, Conservative Markov Processes on a Topological Space, Israel J. of Math. 8 (1970), 165-186.
2. M. Lin, Mixed Ratio Limit Theorems for Markov Processes, Israel J. of Math. 8 (1970), 357-366.
3. M. Lin, Mixing for Markov Operators, Zeitschrift fur Wahrscheinlichkeit-stheorie und Verw. Geb. 19 (1971), 231-242.
4. M. Lin, Mixing of Cartesian Squares of Positive Operators. Israel J. Math. 11 (1972), 349-354.
5. M. Lin, Strong Ratio Limit Theorems for Markov Processes, Annals of Math. Statistics, 43 (1972), 569-579.
6. M. Lin, Semi Groups of Markov Operators, Bull. Unione Math. Ital. 6 (1972), 20-44.
7. S. Foguel and M. Lin, Some Ratio Limit Theorems for Markov Operators, Z. Wahrscheinlichkeitstheorie und Verw. Geb. 23 (1972), 55-66.
8. M. Lin, Mixing of Cartesian Squares of Positive Operators, Israel J. Math. 11 (1972), 349-354.
9. Y. Derriennic and M. Lin, On Invariant Measures and Ergodic Theorems for Positive Operators, J. Functional Analysis 13 (1973), 252-267.
10. M. Lin, Quasi-Compact Markov Operators, Annals of Probab. 2 (1974), 464-475.
11. M. Lin, Convergence of the Iterates of a Markov Operator, Z. Wahrscheinlichkeitstheorie 29 (1974), 153-163.
12. M. Lin, On the Uniform Ergodic Theorem I. Proc. Amer. Math. Soc. 43 (1974), 337-340.
13. M. Lin, On the Uniform Ergodic Theorem II. Proc. Amer. Math. Soc. 46 (1974), 217-225.
14. M. Lin, Quasi-Compactness and Uniform Ergodicity of Markov Operators Ann. Inst. Henri Poincare Proba. Stat. 11 (1975), 345-354.
15. L. Jones and M. Lin, Ergodic Theorems of Weak Mixing Type, Proc. Amer. Math. Soc. 57 (1976), 50-52.
16. H. Fong and M. Lin, n the Convergence of Ergodic Ratios for Positive Operators, J. Math Analysis and Appl. 55 (1976), 667-672.
17. M. Lin, Strong Ratio Limit Theorems for Mixing Markov Operators, Ann. Inst. Henri Poincare Proba. Stat. 12 (1976), 181-191.
18. M. Lin and R. Sine, The Individual Ergodic Theorem for Non-Invariant Measures. Z. Wahrscheinlichkeitstheorie und Verw. Geb. 38 (1977), 329-331.
19. M. Lin, J. Montgomery and R. Sine, Change of Velocity and Ergodicity in Flows and in Markov Semi-Groups, Z. Wahrscheinlichkeitstheorie und Verw. Geb. 39 (1977) 197-211.

20. M. Lin, Ergodic Properties of an Operator Obtained from a Continuous Representation, *Ann. Institut. H. Poincare Proba. Stat.* 13 (1977), 321-331.
21. M. Lin, Quasi Compactness and Uniform Ergodicity of Positive Operators, *Israel J. of Math.* 29 (1978), 309-311.
22. M. Lin and Robert Sine, A Spectral Condition for Strong Convergence of Markov Operators, *Z. Wahrscheinlichkeitstheorie und Verw. Geb.* 47 (1979), 27-29.
23. J. Aronson, M. Lin and B. Weiss, Mixing Properties of Markov Operators and Ergodic Transformations, and Ergodicity of Cartesian Products. *Israel J. of Math.* 33 (1979), 198-224.
24. S. Horowitz, Pointwise Convergence of the Iterates of a Harris-Recurrent Markov Operator. A collection of Invited Papers on Ergodic Theory. Completed for publication by M. Lin [Michael Lin]. *Israel J. Math.* 33 (1979), no. 3-4, 177-180.
25. M. Lin, Weak Mixing for Semigroups of Markov Operators Without Finite Invariant Measures. *Ergodic Theory (Proc. Conf., Math. Forschungsinst., Oberwolfach, 1978)*, pp. 89-92, *Lecture Notes in Math.*, 729, Springer, Berlin, 1979.
26. Lee Jones and M. Lin, Unimodular Eigenvalues and Weak Mixing, *J. Functional Analysis* 35 (1980), 42-48.
27. J. Aaronson, M. Lin and B. Weiss, Correction to: "Mixing Properties of Markov Operators and Ergodic Transformations, and Ergodicity of Cartesian Products". *Israel J. Math.* 37 (1980), no. 4, 364
28. M. Lin, On Weakly Mixing Markov Operators and Nonsingular Transformations, *Z. Wahrscheinlichkeitstheorie* 55 (1981), 231-236.
29. M. Lin, On Local Ergodic Convergence of Semi-Groups and Additive Processes, *Israel J. Math.* 42 (1982), 300-308.
30. M. Lin, On the "Zero-Two" Law for Conservative Markov Processes, *Z. Wahrscheinlichkeitstheorie* 61 (1982), 553-565.
31. M. Lin and Robert Sine, Ergodic Theory and the Functional Equation $(I - T)x = y$ *J. Operator Theory* 10 (1983), 153-166.
32. U. Krengel and M. Lin, On the range of the Generator of a Markovian Semi-Group, *Math. Zeitschrift* 185 (1984), 553-565.
33. Y. Derriennic and M. Lin, Sur le Comportement Asymptotique des Puissances de Convolution d'une Probabilite, *Ann. Inst. Poincare Proba. Stat.* 20 (1984), 127-132.
34. U. Krengel and M. Lin, Order Preserving Non-Expansive Operators in L_1 , *Israel J. Math* 58 (1987), 170-192.
35. U. Krengel and M. Lin, An Integral Representation of Disjointly Additive Order Preserving Operators in L_1 , *Stochastic Analysis and Appl.* 6 (1988), 289-304.

36. Y. Derriennic and M. Lin, Convergence of Iterates of Averages of Certain Operator Representations and of Convolution Powers, *J. Functional Analysis* 85 (1989), 86-102.
37. U. Krengel and M. Lin, On the Deterministic and Asymptotic Sigma-Algebras of Markov Operator, *Canadian Math. Bull.* 32 (1989), 64-73.
38. Y. Derriennic and M. Lin, On Pointwise Convergence in Random Walks, In "Almost Everywhere Convergence" (Proceeding of 1988 Conference), pp. 189-193 Academic Press, 1989.
39. M. Lin and R. Sine, On the Fixed Point Set of Non-Expansive Order Preserving Maps, *Math. Z.* 203 (1990), 227-234.
40. M. Lin and R. Sine, Retractions on the Fixed point Set of Semigroups of Non-Expansive Maps in Hyperconvex Spaces, *Nonlinear Analysis* 15 (1990), 943-954.
41. U. Krengel, M. Lin and R. Wittmann, A Limit Theorem for Order Preserving Nonexpansive Operators in L_1 , *Israel J. Math.* 71 (1990), 181-191.
42. M. Lin and R. Wittmann, Pointwise Ergodic Theorems for Certain Order Preserving Mappings in L_1 , in "Almost Everywhere Convergence" II (Proc. 1989 Conference), Academic Press, 1991, 191-207.
43. D. Çömez and M. Lin, Mean Ergodicity of L_1 Contractions and Pointwise Ergodic Theorems, in "Almost Everywhere Convergence" II (Proc. 1989 Conference), Academic Press, 1991, 113-126.
44. M. Lin and R. Sine, Contractive Projections on the Fixed Point Set of L_∞ Contractions, *Colloquium Math.* 62 (1991), 91-96.
45. M.A. Khamsi, M. Lin and R. Sine, On the Fixed Points of Commuting Non-Expansive Maps in Hyperconvex Spaces, *J. Math. Anal. Appl.* 168 (1992), 372-380.
46. A. Brunel, S. Horowitz and M. Lin, On Subinvariant Measures for Positive Operators on L_1 , *Ann. Inst. Poincaré Proba. Stat.* 29 (1993), 105-117.
47. M. Lin and R. Wittmann, Ergodic Sequences of Averages of Group Representations, *Ergodic Theory Dyn. Systems*, 14 (1994). 181-196.
48. M. Lin and R. Wittmann, Convergence of Representation Averages and of Convolution Powers, *Israel J. Math.*, 88 (1994), 125-158.
49. Y. Derriennic and M. Lin, Uniform Ergodic Convergence and Averaging Along Markov Chain Trajectories, *J. Theoretical Prob.* 7 (1994), 483-497.
50. M. Lin, B-Z. Rubshtein and R. Wittmann, Limit Theorems for Random Walks Dynamical Random Transitions, *Theory Prob. Related Fields*, 100 (1994), 285-300.
51. M. Lin and R. Wittmann, Averages of Unitary Representations and Weak Mixing of Random Walks, *Studia Math.* 11 (1995), 127-145.

52. M. Lin and J. Olsen, Besicovitch Functions and Weighted Ergodic Theorems for Group Representations, *Convergence in Ergodic Theory and Probability*, De-Gruyter, Berlin 1996, pp. 277-289.
53. M. Lin and R. Wittmann, Convolution Powers of Spread-out Probabilities, *Ann. Inst. Poincaré Proba. Stat.* 32 (1996), 661-667.
54. V. Fonf, M. Lin and A. Rubinov, On the Uniform Ergodic Theorem in Banach Spaces that do not Contain Duals, *Studia Math.* 121 (1996), 67-85.
55. Y. Derriennic and M. Lin, Sur le Théorème Limite Central de Kipnis et Varadhan Pour les Chaînes Reversibles ou Normales, *C.R. Acad. Sci. Paris* 323 (1996), 1053-1057.
56. I. Kornfeld and M. Lin, Coboundaries of Irreducible Markov Operators on $C(K)$, *Israel J. Math.* 97 (1997), 189-202.
57. D. Çömez, M. Lin and J. Olsen, Weighted Ergodic Theorems for Mean Ergodic L_1 Contractions, *Trans. Amer. Math. Soc.* 350 (1998), 101-117.
58. R. Jones, M. Lin and J. Olsen, Weighted Ergodic Theorems along Subsequences of Density Zero, *New York J. Math.* 3A (1998), 89-98.
59. M. Lin, The Uniforms Zero-Two Law for Positive Operators in Banach Lattices, *Studia Math.* 131 (1998), 149-153.
60. M. Lin and A. Tempelman, Averaging Sequences and Modulated Ergodic Theorems for Weakly Almost Periodic Representations, *J. d'Analysis Math.* 77 (1999), 237-268.
61. M. Lin, J. Olsen and A. Tempelman, On Modulated Ergodic Theorems for Dunford-Schwartz Operators, *Illinois J. Math.* 43 (1999), 542-567.
62. I. Kornfeld and M. Lin, Weak Almost Periodicity of L_1 Contractions and Coboundaries of Non-Singular Transformations, *Studia Math.* 138 (2000), 225-240
63. M. Lin, Support Overlapping L_1 Contractions and Exact Non-Singular Transformations, *Colloquium Math.* 84/85 (2000), 515-520.
64. Y. Derriennic and M. Lin, Fractional Poisson Equations and Ergodic Theorems for Fractional Coboundaries, *Israel J. Math.* 123 (2001), 93-130.
65. Y. Derriennic and M. Lin, The Central Limit Theorem for Markov Chains With Normal Transition Operators, Started at a Point, *Probability Theory and Rel. Fields* 119 (2001), 508-528.
66. V. Fonf, M. Lin and P. Wojtaszczyk, Ergodic Characterizations of Reflexivity of Banach Spaces, *J. Functional Anal.* 187 (2001), 146-162.
67. D. Berend, M. Lin, J. Rosenblatt and A. Tempelman, Modulated and Subsequential Ergodic Theorems in Hilbert and Banach Spaces, *Ergodic Th. & Dyn. Sys.* 22 (2002), 1653-1665.
68. Y. Derriennic and M. Lin, The central Limit Theorem for Markov Chains Started at a Point, *Probability Theory and Rel. Fields* 125 (2003), 73-76.

69. D. Çömez and M. Lin, Multiparameter Supersadditive Ergodic Theorems for Mean Ergodic L_1 Contractions, *Proba. Math. Stat.* 23 (2003), 173-187.
70. G. Cohen and M. Lin, Laws of Large Numbers with Rates and the One sided Ergodic Hilbert Transform, *Illinois J. Math.* 47 (2003), no. 4, 997-1031.
71. J. Baxter, R. Jones, M. Lin and J. Olsen, SLLN for Weighted Independent Identically Distributed Random Variables, *J. Theoretical Proba.* 17 (2004), 165-181.
72. G. Cohen, R. Jones and M. Lin, On Strong Laws of Large Numbers with Rates, *Contemporary Math.* 356 (2004), 101-126.
73. G. Cohen, M. Lin and A. Tempelman, Consistency of the LSE in Linear Regression with Stationary Noise, *Colloquium Math.* 100 (2004), 29-71.
74. G. Cohen and M. Lin, Extensions of the Menchoff-Rademacher Theorem with Applications to Ergodic Theory, *Israel J. Math.* 148 (2005), 41-86.
75. M. Lin and M. Weber, Weighted Ergodic Theorems and Strong Laws of Large Numbers, *Ergodic Th. And Dynamical Sys.* 27 (2007), 511-543.
76. I. Assani and M. Lin, On the One-Sided Ergodic Hilbert Transform, *Contemporary Math.* 430 (2007), 21-39.
77. Y. Derriennic and M. Lin, The Central Limit Theorem for Random Walks on Orbits of Probability Preserving Transformations, *Contemporary Math.* 444 (2007), 31-51.
78. M. Lin and M. Weber, Laws of Iterated Logarithm of Weighted Sums of iid Random Variables, *Contemporary Math.* (2009), 113-129.
79. C. Cuny and M. Lin, Pointwise Ergodic Theorems with Rate and Application to the CLT for Markov Chains. *Ann. Inst. Henri Poincaré Probab. Stat.* 45 (2009), no. 3, 710-733.
80. G. Cohen and M. Lin, Almost Sure Convergence of Weighted Sums of Independent Random Variables. *Contemp. Math.*, 485 (2009), 13-43.
81. G. Cohen, C. Cuny and M. Lin, The One-Sided Ergodic Hilbert Transform in Banach Spaces. *Studia Math.* 196 (2010), no. 3, 251-263.
82. G. Cohen and M. Lin, The One-Sided Ergodic Hilbert Transform of Normal Contractions, in *Characteristic Functions, Scattering Functions and Transfer Functions*, Oper. Theory Adv. Appl. 197, Birkhäuser Verlag, Basel (2010), 77-98
83. V. Fonf, M. Lin and P. Wojtaszczyk, A Non-Reflexive Banach Space with All Contractions Mean Ergodic. *Israel J. Math.* 179 (2010), 479-491.
84. Y. Derriennic and M. Lin, Variance Bounding Markov Chains, L_2 -Uniform Mean Ergodicity and the CLT. *Stoch. Dyn.* 11 (2011), no. 1, 81-94.
85. V. Fonf, M. Lin and P. Wojtaszczyk, Poisson's Equation and Characterizations of Reflexivity of Banach Spaces. *Colloq. Math.* 124 (2011), no. 2, 225-235.