

羅春光教授 (Chun-Kong Law) (81 年 8 月畢業，81 年 8 月到校)

(A) 期刊論文

1. Nguyen, TA and Law, CK. *Regularization operators versus regularization strategies*. *JOURNAL OF INVERSE AND ILL-POSED PROBLEMS*, 31(4):625-629, 2023. [SCIE, NSYSU].
2. Clarkson, PA; Law, CK and Lin, CH. *A Constructive Proof for the Umemura Polynomials of the Third Painleve^{acute accent} Equation*. *SYMMETRY INTEGRABILITY AND GEOMETRY-METHODS AND APPLICATIONS*, 19, 2023. [SCIE, NSYSU].
3. Ismail, M; Law, CK. *A difference equation approach to plancherel-rotach asymptotics for q-orthogonal polynomials*. *STUDIES IN APPLIED MATHEMATICS*, 145(4):696-718, 2020. [SCIE, NSYSU].
4. Luo, Yu-Chen; Jatulan, Eduardo O.; Law, Chun-Kong. *Dispersion relations of periodic quantum graphs associated with archimedean tilings (II)*. *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 52, 445204(28pp), 2019. [SCIE, NSYSU].
5. Tsao, Che-Wei; Law, Chun-Kong. *The Stieltjes String and its associated nodal points*. *OPERATORS AND MATRICES*, 13(2):363-373, 2019. [SCIE, NSYSU].
6. Luo, Yu-Chen; Jatulan, Eduardo O.; Law, Chun-Kong. *Dispersion relations of periodic quantum graphs associated with archimedean tilings (I)*. *JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL*, 52, 165201(22pp), 2019. [SCIE, NSYSU].
7. Cheung, L. F.; Law, C. K.; Leung, M. C.. *On a class of rotationally symmetric p-harmonic maps*. *COMMUNICATIONS ON PURE AND APPLIED ANALYSIS*, 16(6):1941-1955, 2017. [SCIE, NSYSU].
8. Law, C. K.; Wang, Wan-Zhen; Wang, Wei-Chuan. *Sturm-liouville properties for atkinson's semi-definite p-laplacian eigenvalue problems*. *MATHEMATISCHE NACHRICHTEN*, 290(1):66-74, 2017. [SCIE, NSYSU].
9. Cheng, Yan-Hsiou; Law, Chun-Kong; Lian, Wei-Cheng; Wang, Wei-Chuan. *An inverse nodal problem and ambarzumyan problem for the periodic p-laplacian operator with integrable potentials*. *TAIWANESE JOURNAL OF MATHEMATICS*, 19(6):1575-1576, 2015. [SCIE, NSYSU].
10. L.F. Cheung, Chun-Kong Law, and M.C. Leung. *On a class of rotationally symmetric p-harmonic maps*. *Comm. Pure Appl. Anal.*, 2016. [SCI, NSYSU].
11. Chun-Kong Law, W.Z. Wang, and W.C. Wang. *Sturm-liouville properties for atkinson's semi-definite p-laplacian eigenvalue problems*. *Math. Nachr.*, 2016. [SCI, NSYSU].
12. Yan-Hsiou Cheng and Chun-Kong Law and Yu-Chen Luo. *Distribution of the prufer angle in p-laplacian eigenvalue problem*. *ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS*, (255): 1-8, 2014. [SCI, NSYSU].
13. Chun-Kong Law, V. Pivovarchik, and W.C. Wang. *A polynomial identity and its application to inverse spectral problems in Stieltjes strings*. *OPERATORS AND MATRICES*, 7(3):603-616, 2013. [SCI, NSYSU].
14. X. Chen, Y.H. Cheng, and Chun-Kong Law. *A Tikhonov regularization for the inverse nodal problem for p-Laplacian*. *JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS*, 395:230-240, 2013. [SCI, NSYSU].
15. C.Z. Chen, Chun-Kong Law, W.C. Lian, and W.C. Wang. *Optimal upper bounds for the eigenvalue ratios of one-dimensional p-laplacian*. *PROCEEDINGS OF AMERICAN MATHEMATICAL SOCIETY*, 141(3):883-893, 2013. [SCI, NSYSU].
16. Chun-Kong Law and E. Yanagida. *A solution to an Ambarzumyan problem on trees*. *KODAI JOURNAL OF MATHEMATICS*, 35:358-373, 2012. [SCI, NSYSU].
17. X. Chen, Y.H. Cheng, and Chun-Kong Law. *Reconstructing potentials from zeros of one eigenfunction*. *TRANSACTIONS OF AMERICAN MATHEMATICAL SOCIETY*, 363(9):4831-4851, 2011. [SCI, NSYSU].
18. Y.H. Cheng, Chun-Kong Law, S.Y. Kung, and W.C. Lian. *The dual eigenvalue problems for the Sturm-Liouville system*. *COMPUTERS AND MATHEMATICS WITH APPLICATIONS*, 60:2556-2563, 2010. [SCI, NSYSU].
19. W.C. Lian, W.C. Wang, and Chun-Kong Law. *The inverse nodal problem and the Ambarzumyan problem for the p-Laplacian*. *Proc. Royal Soc. Edinburgh*, 139:1261-1273, 2009. [SCI, NSYSU].
20. Chun-Kong Law and V. Pivovarchik. *Characteristic functions of quantum graphs*. *J. PHYSICS A-MATHEMATICAL AND THEORETICAL*, 42(3):1-12, 2009. [SCI, NSYSU].
21. C. N. Chen, L. F. Cheung, Y. S. Choi, and Chun-Kong Law. *Integrability of rotationally symmetric n-harmonic maps*. *J. Math. Anal. Appl.*, 327:869-877, 2007. [SCI, NSYSU].
22. Y. H. Cheng and Chun-Kong Law. *The inverse nodal problem for Hill's operators*. *INVERSE PROBLEMS*, 22:891-901, 2006. [SCI, NSYSU].
23. Y. H. Cheng and Chun-Kong Law. *On the quasi-nodal map for the Sturm-Liouville problem*. *Proc. Royal Soc. Edinburgh*, 136(1):71-86, 2006. [SCI, NSYSU].
24. C. C. Chen, Chun-Kong Law, and F. Y. Sing. *Optimal lower estimates for eigenvalue ratios of Schrodinger operators and vibrating strings*. *Taiwanese J. Math.*, 9(2):175-185, 2005. [SCI, NSYSU].

25. Y. H. Cheng, C. T. Shieh, and Chun-Kong Law. A vectorial inverse nodal problem. *Proc. Amer. Math. Soc.*, 133(5):1475–1484, 2005. [SCI, NSYSU].
26. L. F. Cheung and Chun-Kong Law. An initial value approach to rotationally symmetric harmonic maps. *J. Math. Anal. Appl.*, 289:1–13, 2004. [SCI, NSYSU].
27. C. N. Chen, Y. S. Choi, L. F. Cheung, and Chun-Kong Law. On the blowup of heat flow for conformal 3-harmonic maps. *TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY*, 354(12):5087–5110, 2002. [SCI, NSYSU].
28. Y. T. Chen, Y. H. Cheng, Chun-Kong Law, and Jhishen Tsay. L 1 convergence of the reconstruction formula for the potential function. *PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY*, 130(8):2319–2324, 2002. [SCI, NSYSU].
29. Chun-Kong Law and J. Tsay. On the well-posedness of the inverse nodal problem. *INVERSE PROBLEMS*, 17(5):1493–1512, 2001. [SCI, NSYSU].
30. H. H. Chern, Chun-Kong Law, and H. J. Wang. Extension of Ambarzumyan’s theorem to general boundary conditions. *J. MATHEMATICAL ANALYSIS AND APPLICATIONS*, 263:333–342, 2001. Corrigendum, 309:764–768, 2005. [SCI, NSYSU].
31. Y. H. Cheng, Chun-Kong Law, and J. Tsay. Remarks on a new inverse nodal problem. *J. MATHEMATICAL ANALYSIS AND APPLICATIONS*, 248:145–155, 2000. [SCI, NSYSU].
32. L. F. Cheung, Chun-Kong Law, and M. C. Leung. Bounded positive solutions of rotationally symmetric harmonic maps equations. *Differential and Integral Eqns.*, 13:1149–1188, 2000. [NSYSU].
33. Chun-Kong Law, C. L. Shen, and C. F. Yang. The inverse nodal problem on the smoothness of the potential function. *INVERSE PROBLEMS*, 15:253–263, 1999. Erratum. 17:361–364, 2001. [SCI, NSYSU].
34. Chun-Kong Law and C. F. Yang. Addendum: Reconstructing the potential function and its derivatives using nodal data. *INVERSE PROBLEMS*, 14:779–780, 1998. [SCI, NSYSU].
35. L. F. Cheung, Chun-Kong Law, and M. C. Leung. Uniqueness of positive solutions to the rotationally symmetric p -harmonic map equations. *J. Computational and Applied Math.*, 88:45–56, 1998. [SCIE, NSYSU].
36. Chun-Kong Law and C. F. Yang. Reconstructing the potential function and its derivatives using nodal data. *INVERSE PROBLEMS*, 14:299–312, 1998. [SCI, NSYSU].
37. Chun-Kong Law and Y. L. Huang. Eigenvalue ratios and eigenvalue gaps of SturmLiouville operators. *PROCEEDINGS OF THE ROYAL SOCIETY OF EDINBURGH*, 128A:337–347, 1998. [SCI, NSYSU].
38. L. F. Cheung, Chun-Kong Law, M. C. Leung, and J. B. McLeod. Entire solutions of quasilinear differential equations corresponding to p -harmonic maps. *Nonlinear Analysis TMA*, 31:701–715, 1998. [SCI, NSYSU].
39. A. P. Bassom, P. A. Clarkson, Chun-Kong Law, and J. B. McLeod. Application of uniform asymptotics to the second Painleve transcendent. *ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS*, 143:241–271, 1998. [SCI, NSYSU].
40. Y. L. Huang and Chun-Kong Law. Eigenvalue ratios for the regular Sturm-Liouville system. *PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY*, 124(5):1427–1436, 1996. [SCI, NSYSU].
41. A. V. Kitaev, Chun-Kong Law, and J. B. McLeod. Rational solutions of the fifth Painleve equation. *Differential and Integral Eqs*, 7(1):967–1000, 1994. [NSYSU].
42. Chun-Kong Law and K. F. Ng. Characterization of positive semigroups of operators on Banach spaces. *JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS*, 170(1):207–213, 1992. [SCI].
43. K. F. Ng and Chun-Kong Law. Monotonic norms in ordered Banach spaces. *JOURNAL OF THE AUSTRALIAN MATHEMATICAL SOCIETY SERIES A-PURE MATHEMATICS AND STATISTICS*, 45:217–219, 1988.

(B) 專書及其他著作

1. Chun-Kong Law. Inverse nodal problems 1D. In B. Engquist ed., editor, *Encyclopedias of Applied and Computational Mathematics*, number 29. Springer, Berlin, 2015. [NSYSU].
2. 許家甄、李昱宏、潘信鴻、何青翰、徐含馥、羅春光. n 元數與同餘式組. *數學傳播季刊*, 34(1):58–64, 2009. [NSYSU].
3. 賈乃輝、魏文恩、郭倍綸、劉玠玟、羅春光. 以微積分方法探討三角函數的性質. *數學傳播季刊*, 30(3):42–52, 2006. [NSYSU].
4. 王文甫、鄧仲仁、顏士傑、羅春光. 勾股數與張角長方形. *數學傳播季刊*, 26(1):48–53, 2002. [NSYSU].
5. 羅春光、洪劭軒、黃拓儒. 質數三元數與同餘式組. *數學傳播季刊*, 21(2):66–70, 1997. [NSYSU].