

Paul Yang

Bibliography

1. Thesis, On a holomorphic differential equation, UC Berkeley, 1973.
2. On compact Kahler manifolds of negative holomorphic bisectional curvature, Duke Math. Jour., 43 (1976), 871-875.
3. Curvature of complex submanifolds of C^n , Proc. Symp. Pure Math. Vol.30 (1976) II, 135-137.
4. Curvature of complex submanifolds of C^n , JDG 12 (1977), 500-511.
5. Kahler metrics on fibered manifolds, Proc. Amer. Math. Soc. 63 (1977), 131-133.
6. Holomorphic curves and boundary regularity of biholomorphic maps, University of Maryland Tech. Report No.93, 1978.
7. Eigenvalues of the Laplacian of compact Riemann surfaces and minimal submanifolds, Annali Scuola Norm. Sup. Pisa 7 (1980) 55-65, (joint with S.T. Yau).
8. Riemann-Roch Formula for three dimensional pseudoconvex manifolds, Several complex variables, Proceedings of 1981 Hangzhou conference, 257-267.(joint with S. Yau).
9. Local boundary regularity of holomorphic mappings, CPAM 33 (1980), 305-338. (joint with L. Nirenberg and S. Webster).
10. Non-compact version of the second Plucker equation, Duke Math. Jour. 47 (1980) 127-134. (Joint with J. Quine).
11. Compact Kahler-Einstein surfaces of negative bisectional curvature, Inventiones, 64 (1981) 471-487 (Joint with Y.T. Siu).
12. An over-determined Neumann problem in the unit disk, Advances in Math, 44 (1982) 1-17 (Joint with C. Berenstein).
13. Automorphism of tube domains. Amer. Jour. of Math., 104 (1982) 1005-1024.

14. Automorphisms of tube domains and spherical tubular hypersurfaces, Amer. Jour. Math., 107 (1985) 999-1013. (Joint with J. Dadok).
15. Geometry of tube domains, Proc. AMS Symp. SCV 41 (1982), 277-283.
16. An inverse Neumann problem, Journal fur die reine und angewandte Mathematik, 382 (1987) 1-21. (Joint with C. Berenstein).
17. Prescribing Gaussian Curvature on S^2 , (joint with S.Y. Chang), Acta Mathematica, 159 (1987), 215-259.
18. Conformal deformation of metrics on S^2 (joint with S.Y. Chang), JDG 27 (1988), 259-296.
19. Compactness of isospectral conformal metrics on S^3 (joint with S.Y. Chang), Commentari Math. Helv., 64 (1989) 363-374.
20. On isospectraal set of conformally equivalent metrics (joint with R. Brooks P. Perry), Duke Math. Jour., 58 (1989) 131-150.
21. The conformal deformation equation and isospectral set of conformal metrics, (joint with S.Y. Chang) Contemporary Math., 101 (1989) 165-178.
22. Isospectral conformal metrics on 3-manifolds, (joint with S.Y. Chang) Jour. AMS, 3 (1990) 117-145. .
23. A perturbation result in prescribing scalar curvature on S^n , Duke Math. Jour., 64 (1991) 27-69; Addendum, Duke Math Journal, 71 (1993), 333-335.(joint with S.Y. Chang).
24. Remarks on prescribing Gauss curvature on S^2 , Trans. AMS, 336 (1993) 831-840 (joint with Xingwang Xu).
25. Spectral Invariants of conformal metrics, Harmonic Analysis Conference Proceedings, 51-60, (joint with S.Y. Chang).
26. Estimates and extremals for zeta function determinants on four-manifolds, (joint with T. Branson and S.Y. Chang) , Comm. Math. Physics, 149 (1992), 241-262.

27. A construction of m-harmonic maps of S^m , Inter. Jour. Math. 4 (1993), 521-533, (joint with X.W. Xu).
28. The scalar curvature equation on 2- and 3-spheres, Calculus of Variations 1, 205-229 (1993), joint with A. Chang and M. Gursky.
29. Regularity of m-harmonic maps, (joint with L. Mou), J. Geom. Anal. 6 (1996), 91-112.
30. Extremal metrics of zeta function determinants on 4-manifolds, Ann. of Math. 142 (1995), 171-212 (joint with A. Chang).
31. Multiple solutions and Regularity of H-systems, Indiana U. Math Jour. 45 (1996) 1193-1221 joint with L. Mou.
32. A perturbation result in prescribing mean curvature, (joint with S.Y. Chang and X.W. Xu), Math. Annalen.,310, 473-496 (1998).
33. Remarks on a fourth order invariant in conformal geometry, (joint with S. Y. Chang and M. Gursky) to appear in Proceedings of conference at Hong Kong University.
34. Determinants and extremal metrics in conformal geometry, Geometry from the Pacific Rim 37-57, (joint with S.Y. Chang.)
35. On uniqueness of solution of a n-th order differential equation in conformal geometry, Math. Res. Lett. 4, 91-102 (1997), (with Chang)
36. Regularity of a fourth order nonlinear PDE with critical exponent, Amer. J. Math 121 (1999), 215-257, (with Chang and Gursky).
37. Regularity of harmonic maps, CPAM. 52 (1999), 1099-1111, (with Chang and Wang).
38. A regularity theory of biharmonic maps, CPAM, 52 (1999), 1113-1137, (with Chang and Wang).
39. On the Chern-Gauss-Bonnet integral for conformal metrics on R^4 , Duke Math. Jour. 103 (2000), 523-544, (with Chang and Qing).
40. Compactification of a class of conformally flat 4-manifolds, Invent. Math. 142 (2000), 65-93. (with chang and Qing).

41. On a fourth order curvature invariant, Contemporary Math. 237, p.9-28, (With SYA Chang).
42. Conformal energy in four dimension, Math. Annalen, 324 (2002) 731-742 (With X. Xu).
43. An Equation of Monge-Ampere type in conformal geometry, and four-manifolds of positive Ricci curvature, Annals of Math.,155 (2002), 709-787 (with Chang and Gursky).
44. Fourth order equations in conformal geometry, in Seminaires & Congres 4, 155-165 (with Chang).
45. Positivity of Paneitz operators, Disc. Cont. Dynamical Systems, 7 (2001), 329-342 (with Xu).
46. Partial differential equations related to the Gauss-Bonnet-Chern integrand on 4-manifolds, in "Conformal, Riemannian and Lagrangian geometry, the 2000 Barrett Lectures" 1-30 (with Chang).
47. On a fourth order equation in 3-D, ESAIM: Cont. Optim. Calc. Var. 8. (2002) 1029-1042, (with X. Xu)
48. An apriori estimate for a fully nonlinear equation on 4-manifolds, Journal D'Analyse Math. 87 (2002), 151-186, (with Chang and Gursky).
49. The inequality of Moser and Trudinger and applications to conformal geometry, CPAM 56 (2003) 1135-1150. (with Chang).
50. Nonlinear partial differential equations in conformal geometry, Proceedings ICM 2002, V.1 189-207, (joint with Chang).
51. Entire solutions of a fully nonlinear equation. Lectures on partial differential equations, 43-60, New Stud. Adv. Math., 2, Int. Press, Somerville, MA, 2003
52. On finiteness of Kleinian groups in general dimension, J. Reine Angew. Math. 571 (2004), 1-17. Crelles Journal (with Chang and Qing).
53. A conformally invariant sphere theorem in four dimensions, Pub. IHES 98 (2003) 105-143, (with Chang and Gursky).

54. On a class of locally conformally flat manifolds, IMRN (2004) N0.4, 185-209 (with Chang and F. Hang).
55. On the Paneitz energy on the standard three sphere, ESAIM:Control, Optim. and Calc. of Variations, 10 (2004) 211-223, (with M. Zhu).
56. The Sobolev inequality for Paneitz operator on three manifolds, Calc. of Variations 21 (2004) 57-83, (with F. Hang).
57. On the topology of conformally compact Einstein 4-manifolds, Contemporary Math. 350 (2004), 49-61 (with Chang and Qing).
58. Minimal surfaces in pseudohermitian geometry, Annali della Scuola Normale Superiore di Pisa, Serie V, Vol IV, (2005) 129-177, joint with J-H Cheng, J-F Huang, and Malchiodi.
59. On the renormalized volumes for conformally compact Einstein manifolds, Sovrem. Mat. Fundam. Napravl. 17 (2006),129–142;(Chang and Qing).
60. On a conformal gap and finiteness theorem for a class of four manifolds, GAFA 17 (2007), 404-434 (joint with Chang and Qing).
61. Classification of singular radial solutions to the σ_k Yamabe equation on annular domains, Jour. Diff. Equations, 216 (2005) 482-501, joint with Chang and Han.
62. Existence and uniqueness for p-area minimizers in the Heisenberg group, Math. Annalen (2007) 337, 253-293, (joint with Cheng and Hwang).
63. Conformal invariants associated to a measure, Proc. Natl. Acad. Sci. USA 103 (2006), no. 8, 2535–2540 (electronic). (joint with Chang and Gursky).
64. Conformal invariants associated to a measure, preprint (joint with Chang and Gursky), Pac. J. Math., 253 (2011), 37-56.
65. Minimal surfaces in CR Geometry, lectures at Centraro, CIME, Lecture Notes, in Geometric Analysis and PDEs, Lecture Notes in Math. No. 1977, 2009 p. 253–273.

66. Regularity of C^1 smooth surfaces with prescribed p -mean curvature in the Heisenberg group, *Math. Annalen.*, (2009) 344: 1–35 (joint with Cheng and Hwang).
67. Some advancements in conformal geometry, *SIGMA*, **3** (2007), 122, 17 pages; special volume in memory of Thomas Branson. arXiv:0712.2794, (joint with Jie Qing and Alice Chang).
68. Isoperimetric inequalities and volume comparison theorems on CR manifolds, *Annali Scuola Normal di Pisa*, (2009) 279–307 (with S. Chanillo).
69. Compactification for a class of 3-manifolds, preprint, (with C. Ndiaye).
70. Principal curvature estimates for the convex level sets of semilinear elliptic equations, *Disc. Cont. Dyn. Syst.* 28 (2010) 1151–1164 (joint with A. Chang and X. Ma).
71. A Codazzi-like equation and the singular set for C^1 smooth surfaces in the Heisenberg group, *Jour. Reine Angew. Math.* (2011) 1–68 (joint with J. Cheng, J. Hwang and A. Malchiodi).
72. On the prescribed σ_2 curvature equation on \mathbb{S}^4 , *Calc. Var. PDE* 40 (2011) 539–565 (joint with A. Chang and Z. Han).
73. Pseudo hermitian geometry in 3-D, *Milan J. Math.* 79 (2011) 181–191.
74. Uniformization of spherical CR manifolds, (preprint, joint with J-H Cheng, H-L Chiu).
75. A positive mass theorem in three dimensional Cauchy-Riemann geometry, (preprint, joint with J-H Cheng and A. Malchiodi).
76. Compactness of conformally compact Einstein manifolds of dimension $3+1$, (preprint, joint with A. Chang and S. Chen).
77. Embeddability for three-dimensional Cauchy-Riemann manifolds and CR Yamabe invariants, (joint with S. Chanillo, and H-L Chiu) to appear in *Duke J. Math.*

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