BJÖRN E. J. DAHLBERG

PUBLICATIONS

1. "Mean values of subharmonic functions", *Ark. Mat.* **10** (1972), 294–309.
2. "Holomorphic mappings into smooth projective varieties", *Ark. Mat.* **12** (1974), 60–71.
3. "A minimum principle for positive harmonic functions", *Proc. London Math. Soc.* **33** (1976), 238–250.
4. "On the radial boundary values of subharmonic functions", *Math. Scand.* **40** (1977), 301–317.
5. "On estimates of harmonic measure", *Arch. Rat. Mech. and Analysis* **65** (1977), 275–288.
6. "Exceptional sets at the boundary for subharmonic functions", *Ark. Mat.* **15** (1977), 305–312.
7. "On the existence of radial boundary values for functions subharmonic in a Lipschitz domain", *Indiana Univ. Math. J.* **27** (1978), 515–526.
8. "On the distribution of Fekete points", *Duke Math. J.* **45** (1978), 537–542.
9. "Regularity properties of Riesz potentials", *Indiana Univ. Math. J.* **28** (1979), 257–268.
10. "An Algebra of functions", *Proc. Amer. Math. Soc.* **74** (1979), 39–43.
11. "Harmonic functions in Lipschitz domains", *Proc. Symp. in Pure Math.* **35**, part 1 (1979), 313–322.
12. "A note on Sobolev spaces", *Proc. Symp. in Pure Math.* **35**, part 1 (1979), 183–185.
13. (with R.R. Coifman) "Singular integral characterizations of nonisotropic H^p–spaces and the F. and M. Riesz Theorem", *Proc. Symp. in Pure Math.* **35** , part 1 (1979), 231–234.
14. "L^q–estimates for Green potentials in Lipschitz domains", *Math. Scand.* **44** (1979), 149–170.
15. "On the Poisson integral for Lipschitz and C^1–domains", *Studia Math.* **LXVI** (1979), 13–24.
16. "A note on H^1 and *BMO*", *Proceedings of the Pleijel Conference*, 1979, 23–30.
17. "Weighted norm inequalities for the Lusin area integral and the non–tangential maximal functions for functions harmonic in a Lipschitz domain", *Studia Math.* **LXVII** (1980), 297–314.
18. "Approximation of harmonic functions", *Ann. Inst. Fourier de Grenoble* **30** (1980), 90–107.
19. (with E. Trubowitz) "A remark on two dimensional periodic potentials", *Comm. Math. Helv.* **57** (1982), 130–134.
20. (with C. Kenig) "A note on the almost everywhere behavior of solutions to the Schrodinger equation", *Proceedings of the Italian– American Harmonic Analysis Meeting at Minnesota,Springer Verlag, Lecture Notes in Mathematics* **908** (1982), 205–208.
21. "Real Analysis and Potential Theory", *Proceedings of the International Congress of Mathematicians* August 16–24, 1983, Warsaw, Poland, pp. 953–959.
22. (with E. Trubowitz) "The inverse Sturm–Liouville problem", *Comm. Pure Appl. Math.* **37** (1984), 255–267.
23. (with D.S. Jerison and C. Kenig) "Area integral estimates for elliptic differential operators with non–smooth coefficients", *Ark. Mat.* **22** (1984), 97–108.
24. (with E.B. Fabes and C. Kenig) "A Fatou theorem for solutions of the porous medium

equation", *Proc. Amer. Math. Soc.* **91** (1984), 205–212.

25. (with C. Kenig) "Non–negative solutions of the porous medium equation" ,*Comm. in Part. Diff. Eq.* **9** (1984), 409–437.

26. "On the absolute continuity of elliptic measures", *American Math. J.* **108** (1986), 1119–1138.

27. "Poisson semigroups and singular integrals", *Proc. Amer. Math. Soc.* **97** (1986), 41–48.

28. (with C. Kenig and G. Verchota) "The Dirichlet problem for the biharmonic equation in a Lipschitz domain", *Annales de l'Institut Fourier de Grenoble* **36** (1986), 109–135.

29. (with C. Kenig) "Nonnegative solutions of generalized porous medium equations", *Revista Matemática Iberoamericana* **2** (1986), 267–305.

30. (with C. Kenig) "Hardy spaces and the L^p–Neumann problem for Laplace's equation in a Lipschitz domain", *Annals of Mathematics* **125** (1987), 437–465 .

31. (with B. Johansson) "Convexity preserving approximations", preprint.

32. (with B. Johansson) "Shape Preserving Approximations", *The Mathematics of surfaces II, Procedings of the IMA 2nd Conference on the Mathematics of Surfaces,*edited by R. R. Martin, pp 419–426, Oxford University Press, 1987.

33. (with R. Andersson, E. Andersson, M. Bohman, T. Elmroth, and B. Johansson) "The Automatic Generation of Convex Surfaces", *The Mathematics of surfaces II, Procedings of the IMA 2nd Conference on the Mathematics of Surfaces*, edited by R. R. Martin, pp 427–446, Oxford University Press, 1987.

34. (with C. Kenig) "Non–negative Solutions of the Initial–Dirichlet Problem for Generalized Porous Medium Equations in Cylinders", *Journal of the Amer. Math. Soc.* **1** (1988), 401–412.

35. (with G. Verchota) "Galerkin Methods for the Boundary Integral Equations of Elliptic Equations in Non–Smooth Domains", Harmonic Analysis and Partial Differential Equations (Boca Raton, FL, 1988), 39–60, *Contemp. Math.* **107**, Amer. Math. Soc., Providence, RI, 1990.

36. (with R. Andersson, E. Andersson, M. Bohman, T. Elmroth, and B. Johansson) "The Automatic Generation of Surfaces with Prescribed Shape", *Computer Aided Design* **20** (1988), 317–314.

37. (with C. Kenig and G. Verchota) "Boundary value problems for the systems of linear elastostatics in Lipschitz domains", *Duke Math. J.* **57** (1988) 795–818.

38. (with C. Kenig) "Non–negative solutions to fast diffusions", *Revista Matemática Iberoamericana* **4** (1988), 11–30.

39. "Construction of surfaces with prescribed shape", *Approximation Theory VI, Vol. 1 (College Station, TX, 1989)*, 157–159, Academic Press

40. (with C. Kenig) "L^p–estimates for the three–dimensional systems of elaststatics on Lipschitz domains", Analysis and partial differential equations, 621–634, *Lecture Notes in Pure and Appl. Math.* **122**, Dekker, New York, 1990.

41. (with R. Andersson) "Interactive techniques for visual design", *Topics in surface modeling*, 95–113, Geom. Des. Publ., SIAM 1992

42. "Partial Differential Equations with minimal smoothness and applications", Procedings of the IMA Participating Institutions, Conference held at the University of Chicago, Chicago, Illinois, March 21–25, 1992, Edited by B. Dahlberg, E. Fabes, R. Fefferman, D. Jerison and J. Pipher. *The IMA Volumes in Mathematics and its Applications* **42**, Springer Verlag, New York, 1995, xii +220 pp.

43. (with C. Kenig) "Weak solutions of the porous medium equation in a cylinder", *Trans. Amer. Math. Soc.* **336** (1995) 701–709.

44. (with C. Kenig) "Weak solutions of the porous medium equation", *Trans. Amer. Math. Soc.* **336** (1995) 711–725.

45. (with C. Kenig, J. Pipher and G. Verchota) "Area integral estimates for higher order elliptic equations and systems", *Ann. Inst. Fourier (Grenoble)* **47** (1997), 1425–1461

46. "A converse to the four vertex theorem", Preprint, Submitted for publication.

47. "Total Curvature and Rearrangements", Preprint, Submitted for publication.

48. "Discrete Approximation of the Curvature of Arcs", Preprint.

49. "A Discrete Four Vertex Theorem", Preprint, Submitted for publication.