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Envelopes of holomorphy for solutions of the Laplace and Dirac equations

Comment.Math.Univ.Carolinae 32,3 (1991) 479-494.

Abstract: Analytic continuation and domains of holomorphy for solution to the complex Laplace and Dirac equations in \mathbf{C}^n are studied. First, geometric description of envelopes of holomorphy over domains in \mathbf{E}^n is given. In more general case, solutions can be continued by integral formulas using values on a real $n - 1$ dimensional cycle in \mathbf{C}^n . Sufficient conditions for this being possible are formulated.

Keywords: envelope of holomorphy, integral formula, index, null-convexity, complex null cone, Lipschitz boundary

AMS Subject Classification: 32D10, 30G35