

GEOMETRIC STRUCTURE OF CRITICAL POINTS FOR SOLUTIONS TO SOME ELLIPTIC EQUATIONS

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Time: Fri, Jun 11, 15:00-17:00 Tencent ID: 922 858 947

Abstract: The study of critical set of solutions to partial differential equations involves many fields in mathematics and engineering technology, including partial differential equation theory, geometric measure theory, geometric analysis, image processing and so on. The study of geometric structure and measure estimation of the critical set is an important research content of the solutions of partial differential equations, and it is also one of the hot and difficult problems in the field of partial differential equations. They are not only important geometric properties of solutions, but also related to the asymptotic behavior and growth of solutions. They are one of the important tools to study some profound properties of solutions of partial differential equations of partial differential equations. They are one of the important tools to study some profound properties of solutions of partial differential equations. In this report, firstly we will introduce the research background and progress of critical set of solutions to elliptic equations. Moreover, we will introduce our recent works.