

# Singular phenomena in nonlinear elliptic equations

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**摘要:** We are concerned with several types of singular phenomena arising in the theory of nonlinear elliptic equations. We describe sufficient conditions for the existence or the uniqueness of solutions and we establish asymptotic properties of solutions. We also establish that no monotonicity hypotheses are necessary in the statement of some classical theorems. Various comparison principles play a crucial role in the arguments developed in this talk. Several open problems are raised in the final part of this lecture.

**报告人简介:** Vicentiu Radulescu教授，博士毕业于巴黎六大，师从世界著名偏微分方程专家Haim Brezis教授，现任波兰AGH University of Science and Technology教授和罗马尼亚国家科学院终身教授。Radulescu教授主要从事非线性椭圆方程、带退化和奇异线性的数学物理方程、非齐次微分算子的谱分析及其在电流变液中的应用等工作，尤其在非线性分析和非线性椭圆型偏微分方程方面有着很深的学术造诣和威望，出版专著10部，发表高水平和高影响的学术论文300余篇，曾多次主持罗马尼亚国家科学研究委员会科研项目。Radulescu教授还是Thomson Reuters高被引研究者，在Google Scholar中有6954次引用，H指数是45，单篇引用最多的论文有286次引用。Radulescu教授应邀主题发言、大会报告和邀请报告50余次，得到了国际学术界的高度认可，并作为大会主席组织了多个专题国际学术大会。