



微分方程与动力系统系列讲座之七

题目: Normalized solutions of double phase equations with mass supercritical growth

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时间: 2024年10月11日 17:00--18:00

地点: 腾讯会议 ID: 220-470-241

会议链接: <https://meeting.tencent.com/dm/Px6r57F1R9gs>

摘要:

I report on some results included in a recent paper with Li Cai (J. Differential Equations, 2024). I discuss the qualitative properties of solutions with prescribed norm for a class of elliptic equations driven by the (p, q) -Laplace operator and with lack of compactness. The reaction term is assumed to be continuous and satisfying weak mass supercritical mass conditions. I shall discuss the existence of ground states, as well as the basic behavior of the ground state energy. The approach is based on the direct minimization of the energy functional on the linear combination of Nehari and Pohozaev constraints intersected with a closed ball of suitable radius.

Vicentiu Radulescu教授简介:

Vicentiu Radulescu is a professor at the University of Craiova (Romania) and at the AGH University of Krakow (Poland). He has also research positions at the Mathematics Institute of the Romanian Academy in Bucharest and at the Brno University of Technology (Czech Republic). Professor Radulescu received his PhD at the Sorbonne University in Paris with the highest honors under the coordination of Professor Haim Brezis. He has also received Habilitation degrees at the Sorbonne University in Paris and at the AGH University of Krakow.

Professor Radulescu published more than 500 papers in prestigious journals, including JMPA, Math. Annalen, Math. Z., Annales Institut Poincare (AIHP), Nonlinearity, Proceedings A of the Royal Society, Transactions AMS, Proceedings AMS, Bulletin London Math. Society, Israel Journal of Mathematics, Journal d'Analyse Mathematique, Journal of Differential Equations, Indiana Univ. Math.

Journal, Calc. Var. PDE (CVPDE), Annali Scuola Normale Superiore di Pisa, Science China Mathematics, etc. Professor Radulescu published until now with the best publishers in the world [Springer (New York, Heidelberg, Switzerland), Oxford University Press, Cambridge University Press, American Mathematical Society, Academic Press, Taylor & Francis, Kluwer, Birkhauser]. He is the founder and Editor-in-Chief of the journal Advances in Nonlinear Analysis. He is also Editor-in-Chief of the journals Bulletin of Mathematical Sciences and Boundary Value Problems.

Professor Radulescu is proud that he coordinated until now 17 PhD and researchers from China who visited him in Romania with the financial support of the China Scholarship Council.

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