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学术讲座

Academic Colloquium

Nonstandard elliptic equations and new qualitative properties



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报告摘要：

We first consider a nonlinear eigenvalue problem driven by the sum of p and q -Laplace operators. We establish a striking result showing that the problem has a continuous spectrum starting from the principal eigenvalue of the Laplace operator. Furthermore, this unbalanced operator has a discontinuity property for the spectrum as the parameter goes to 1. In the second part of this talk, I shall discuss some recent results concerning a new differential operator introduced by Stuart. The study covers the sublinear and linear cases, while the superlinear case remains open.

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报告人简介：

Professor Vicentiu Radulescu is a Full Professor at the University of Craiova, Romania and a Professor Fellow at the Institute of Mathematics of the Romanian Academy, Bucharest. He is an internationally renowned expert in the field of nonlinear analysis. Professor Vicentiu Radulescu won the Simion Stoilow Prize of the Romanian Academy of Sciences; AGH University of Science and Technology Rector's Prize (1st degree) and World's Top 2% Scientists List of Stanford University in 2020. He has served as Editor-in-Chief of *Advances in Nonlinear Analysis and Boundary Value Problems*, as well as Editor of *Journal of Mathematical Analysis and Applications*, *Journal of Geometric Analysis*, *Mathematical Methods in the Applied Sciences* and *Discrete and Continuous Dynamical Systems, Series S* and so on. Up to now, he has published more than 379 papers in high-level mathematics journals. His current total citation is above 7310 and he was named as 2019 and 2020 Highly Cited Researcher by Clarivate Analytics.

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