

# **Jiuzhang Forum: Lecture 465--Professor Radulescu**

With the invitation of Professor Sibeï Yang of the School of Mathematics and Statistics of Lanzhou University, Professor Vicentiu Radulescu of University of Craiova (Romania) and AGH University of Science and Technology (Poland) will give an academic report online.

**Title:** New phenomena in the study of nonlinear elliptic equations

**Time:** 21:00 p.m., November 19, 2021 (Beijing time)

**Tencent Meeting ID:** 751 203 270.

**Abstract:** I shall report on some recent striking results concerning the qualitative analysis of solutions to some classes of nonlinear elliptic equations. The main directions in my talk include the following topics: (i) a discontinuity property of the spectrum for an eigenvalue problem driven by a double-phase operator; (ii) anisotropic problems with mixed subcritical-critical-supercritical regime; and (iii) new results on boundary value problems driven by the Stuart differential operator. Several open problems are raised in the final part of my talk.

## **Introduction of Professor Vicentiu Radulescu:**

Vicentiu Radulescu is a professor at the University of Craiova (Romania) and at the AGH University of Science and Technology, Krakow, Poland. He is also a Professorial Fellow at the Institute of Mathematics of the Romanian Academy in Bucharest. He received both his PhD and his Habilitation at the Sorbonne University in Paris under the coordination of Professor Haim Brezis. Professor Radulescu is a Highly Cited Researcher (2014, 2019, 2020, 2021) and he published more than 400 papers and 10 books. He is the editor of several important journals and he is the co-editor-in-chief and the founder of the journal *Advances in Nonlinear Analysis*.

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