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Double phase problems and a strange discontinuity property of the spectrum

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Abstract: We consider a nonlinear eigenvalue problem driven by the sum of p and q -Laplace operators. We first establish that the problem has a continuous spectrum. Next, we point out a striking discontinuity property for the spectrum of a parametric (p, q) -differential operator as the parameter goes to 1. The main result opens several perspectives to the study of new phenomena in the framework of nonlinear eigenvalue problems associated with differential operators with unbalanced growth.

Prof. Vicentiu Radulescu is a Full Professor at the university of Craiova (Romania) and also a Professorial Fellow at the Institute of Mathematics of the Romanian Academy in Bucharest. He is an internationally renowned expert in the field of nonlinear analysis. His tutor is H Brezis, an academician of the French Academy of Sciences. Professor Radulescu has won the SIMION stoilow award of the Romanian Academy of Sciences. He has served as Advances in Nonlinear Analysis, Nonlinear Analysis, Journal of Mathematical Analysis and Applications and so on The editorial board of applications and other high-level mathematics journals has published more than 350 papers in high-level mathematics journals

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