Singularity and nonlinearity: old and new

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Abstract: 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 prove some striking properties showing that no monotonicity hypotheses are necessary in the statement of some classical theorems. Various types of 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.

Prof. Vicentiu D. 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 Published about 350 papers and 12 books with the best publishers in the world. He is a Highly Cited Researcher and has been the Principal Investigator of several research projects.

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