

INSALATE DI MATEMATICA

presents

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How many solutions a PDE's can have?



Abstract: Over the past decades, one of the most active research fields in mathematics has been the study of the existence and multiplicity of solutions to nonlinear PDE's. In the first part of this talk, we will introduce the notion of the Lusternik-Schnirelmann category and of the Krasnoselskii genus. Later, we will discuss how these objects are useful for studying the number of solutions a Partial Differential Equation can have. Time permitting, we will also see how these theories can be applied to non-local PDE's.

Keywords: PDE's · Variational Methods · Nonlinear Analysis · Critical Point Theory

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U5-3014
4.00 pm (CET)



*"Obvious" is the most dangerous word in mathematics.
(Eric Temple Bell)*