SEMINÁRIO DE ANÁLISE

Multiplicity of Positive Solutions of Elliptic Problems with Oscillating Nonlinearities and Area Condition

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Abstract: In this talk we establish some results on the existence and multiplicity of positive solutions of an elliptic problem with a sign-changing nonlinearity. We show that an area condition is a necessary and sufficient condition for the multiplicity of positive solutions. This is a classical problem which has been vastly studied since the pioneering paper by Brown-Budin (1979). We make a little history of this problem and we remark that up nowadays it is studied by several researchers.