SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

DM-UFSCar & **ICMC**

On the validity of some classical techniques for the stationary Kirchhoff Equation

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Abstract

We discuss the validity, for the stationary Kirchhoff Equation, of certain techniques that are classical in the corresponding local problems, such as the Comparison Principle, the Sub and Supersolution Method, a-priori and regularity estimates, Sobolev versus Hölder local minimizers.

We also present some applications to nonlocal equations with nonlinearities that are a combination of powers.

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