

Symmetry and spectral properties for viscosity solutions of fully nonlinear equations

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Resumo/Abstract:

We will talk about the property inherited by a viscosity solution of a rotationally invariant equation of the form $F(x, D^2u) + f(x, u) = 0$, in relation with the spectral property of the "improperly called" linearized operator at u . We will show applications of our symmetry results to obtain bounds on the spectrum and to deduce properties of possible nodal eigenfunctions for the operator .