

ON QUASILINEAR ELLIPTIC EQUATIONS WITH SINGULAR NONLINEARITY

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We deal with the study of radial solutions of some quasilinear differential equations on model manifolds with singular nonlinearity and Dirichlet boundary condition. The mathematical interest lies on the loss of variational properties due to this singularity. Moreover, even the topological methods carry some limitations. Recently, this equations has received much attention due to its applicability on the modeling of micro devices.

Joint work with J. M. do Ó (Federal University of Paraíba).

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