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SEMINAR

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On quasilinear variational and quasivariational inequalities with fractional gradient constraints

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Abstract

We prove the existence of stationary generalized Lagrange multipliers for the s-gradient constrained problem for a class of quasi-linear monotone operators involving the distributional Riesz fractional gradient. In the case of coercive quasi-linear operators, using the continuous dependence of the variational inequality solution, we also extend the existence of solutions to quasivariational inequalities when the threshold of the fractional gradient constraint is given by a nonlocal operator depending also on the solution. We will briefly refer to the evolutionary case.
(Joint work with A. Azevedo and J.F. Rodrigues)

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