



UNIVERSITÀ DELLA CALABRIA

DIPARTIMENTO DI  
MATEMATICA  
E INFORMATICA

# Avviso di Seminario

Martedì 15 marzo 2016 alle 15:30

Dipartimento di Matematica

Aula MT10 - cubo 30B Secondo Piano

**Dario MONTICELLI**

Politecnico di Milano

terrà un seminario dal titolo:

## Nonexistence of positive solutions for differential inequalities with a potential on Riemannian manifolds

### Abstract:

In this talk I will present some recent developments concerning nonexistence results for nonnegative, nontrivial weak solutions for a class of quasilinear elliptic and parabolic differential inequalities with a potential both on  $\mathbb{R}^m$  and on complete, noncompact Riemannian manifolds, obtained in collaboration with P. Mastrolia (Università degli Studi di Milano) and F. Punzo (Università della Calabria).

In particular, we investigate the interplay between the geometry of the underlying manifold, the (power) nonlinearity and the behaviour of the potential at infinity in obtaining nonexistence of nonnegative solutions, while at the same time trying to keep the hypotheses on the geometry of the manifold at a minimum.

IL DIRETTORE DEL DIPARTIMENTO

Prof. Nicola LEONE