

ABSTRACT: In this talk, we discuss the existence of weak solutions to nonlinear anisotropic elliptic equations on a bounded domain, subject to a homogeneous Dirichlet boundary condition. The nonlinear lower order term depends on the gradient and includes a term without any growth restriction with respect to the solution, yet satisfying a "sign-condition". The latter allows us to consider non-smooth data, which is expected to yield an unbounded solution.

This is joint work with B. Brandolini (University of Naples).