



# UNIVERSITÀ DI PARMA

DIPARTIMENTO DI SCIENZE MATEMATICHE, FISICHE E INFORMATICHE

<http://smfi.unipr.it>

Notizie

SEMINARIO di Analisi Matematica

Data: **venerdì 14 dicembre**, ore **14:00**

Luogo: **aula C**, Plesso di Matematica

Relatore: Prof.ssa **Iwona Chlebicka**

MIMUW, Faculty of Mathematics, Informatics, and Mechanics,  
University of Warsaw;

IMPAN, Institute of Mathematics, Polish Academy of Sciences

Titolo: **Fully anisotropic elliptic problems with data below duality**

Tutti gli interessati sono invitati a partecipare,  
Proff. Alessandra Lunardi e  
Giampiero Palatucci

*Abstract: We investigate a nonlinear elliptic Dirichlet problem with growth in fully anisotropic and non-reflexive Orlicz-Sobolev space.*

*We do not impose any condition of doubling type.*

*When the datum is regular, we prove existence of weak solutions. For measure data we consider a generalized notion of solutions for which we*

*infer existence and anisotropic regularity in*

*Orlicz-Marcinkiewicz spaces extending the known results for anisotropic  $p$ -Laplace equation. In the case of merely integrable data we prove also*

*uniqueness. The regularity we infer in particular*

*extends what is known for anisotropic  $p$ -Laplace equation.*

