

24.05.2021

**Monday's Nonstandard Seminar 34**

**14:00**

Author: Elvira Mascolo (University of Firenze, Italy)

Title: **Regularity results for scalar integrals with  $p, q$  and general slow growth conditions**

Abstract: We present some regularity results for scalar functionals without structure conditions. We consider energy integrands of the form  $f = f(x, \xi)$ ,  $\xi \in R^n$ , with  $p, q$  growth and Sobolev dependence with respect to  $x$ . Moreover, we give a Lipschitz continuous result for the local minimizers of the energy function  $f = f(\xi)$  with general slow growth. Some examples of applications are also exhibited.

The researches are developed in collaboration with Michela Eleuteri, Paolo Marcellini, and Stefania Perrotta.