

## 第23回

- 講演者 : **Flavia Giannetti** 氏 (Universit`a degli Studi di Napoli Federico II)
  - 題目 : Some regularity properties for minimizers of non autonomous functionals with nonstandard growth conditions
  - 日時 : 平成29年3月21日 (火) 15:00 – 16:00

I will talk about some regularity properties of the local minimizers of integral functionals of the type  $\int_{\Omega} \Phi^1$  is uniformly continuous. I will also discuss the more general case of integral functionals whose integrand exhibits the dependence on the  $x$  variable both in the coefficients and in the exponent. More precisely, I will deal with the regularity properties of the local minimizers of integral functionals of the type  $\int_{\Omega} \Phi^{p(x)} ((A_{ij}^{\alpha\beta}(x,u) D_{iu}^{\alpha} D_{ju}^{\beta})^{1/2}) dx$ , where  $p(x) : \Omega \rightarrow (1, +\infty)$  is a continuous function. All the results I will show are contained in two recent papers in collaboration with Antonia Passarelli di Napoli, Maria Alessandra Ragusa and Atsushi Tachikawa.



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5 images

<sup>1)</sup>  
 $A_{ij}^{\alpha\beta}(x,u) D_{iu}^{\alpha} D_{ju}^{\beta})^{1/2}) dx$ , where  $\Omega \subset \mathbb{R}^n$  is a bounded domain,  $u : \Omega \rightarrow \mathbb{R}^N$ ,  $n, N \geq 2$ ,  $\Phi$  is an Orlicz function satisfying both the  $\Delta_2$  and  $\nabla_2$  conditions and the function  $A(x,s) = (A_{ij}^{\alpha\beta}(x,s))$

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Last update: **2017/11/16 18:17**

