

第23回

- 講演者: **Flavia Giannetti** 氏 (Università 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 $\int_{\Omega} \Phi^{(1)}(x,u) dx$ 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 $\int_{\Omega} \Phi^{(p(x))}((A_{ij}^{\alpha\beta}(x,u) D_{iu}^{\alpha} D_{ju}^{\beta})^{\frac{1}{2}}) dx$, 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

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¹⁾
 $A_{ij}^{\alpha\beta}(x,u) D_{iu}^{\alpha} D_{ju}^{\beta})^{\frac{1}{2}}) dx$, where $\Omega \subset \mathbb{R}^n$ is a bounded domain, $u: \Omega \rightarrow \mathbb{R}^N$, $n, N \geq 2$, Φ is an Orlicz function satisfying both the Δ_2 and ∇_2 conditions and the function $A(x,s) = (A_{ij}^{\alpha\beta}(x,s))$

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