



Gastvortrag

Mittwoch, 13. Oktober 2021

Uhrzeit: 11:00 Uhr

Seminarraum II

Prof. Paolo Marcellini

University of Florenz

Existence and regularity remarks for some elliptic and parabolic equations and systems

Abstract:

We give some existence and regularity results for some classes of elliptic and parabolic equations and systems, as well as some examples and remarks about cases with possibly not regular weak solutions. Part of the material can be found at these links:

V. Bögelein, B. Dacorogna, F. Duzaar, P. Marcellini, C. Scheven, Integral convexity and parabolic systems, SIAM Journal on Mathematical Analysis (SIMA), 52 (2020), 1489-1525.

<https://doi.org/10.1137/19M1287870>

G. Cupini, P. Marcellini, E. Mascolo, A. Passarelli di Napoli, Lipschitz regularity for degenerate elliptic integrals with p, q -growth. Adv Calc. Var., 2021, in press.

<https://doi.org/10.1515/acv-2020-0120>

M. Eleuteri, P. Marcellini, E. Mascolo, S. Perrotta, Local Lipschitz continuity with slow growth, Ann. Mat. Pura Appl., 2021, in press.

<https://doi.org/10.1007/s10231-021-01147-w>