Monday's Nonstandard Seminar 7

15:00

Author: Lukas Koch (University of Oxford)

Title: **Global higher integrability for minimisers of convex functionals with (p,q)-growth**

Abstract: I present a global $W^{1,q}(\Omega, \mathbb{R}^m)$-regularity result for minimisers of convex functionals of the form $F(u) = \int_\Omega f(x, Du)\mathrm{d}x$ with (p,q)-growth. Further I discuss a global $W^{1,q}$-regularity result for a relaxed functional related to $F(u)$.