

Title: Existence of solutions for non level-convex problems in the supremal form

Abstract: It is well known that lower semicontinuity of functionals in the supremal form

$$F(u) = \operatorname{ess\,sup}_{x \in \Omega} f(\nabla u(x))$$

is related to the level-convexity of the supremand f . We address the problem of existence of solutions for the Dirichlet boundary problem in the lack of this convexity condition relating it with some differential inclusion problem. This is a joint work with E. Zappale.