Rubén Izquierdo (ICMAT-CSIC)

The Multisymplectic Framework of Field Theories

In this talk I will review the geometric framework for Field Theories, Multisymplectic Geometry. This framework allows us to express the Euler-Lagrange equations in an intrinsic manner, and hence we can use the tools of Differential Geometry for the study of variational problems. I will focus on presenting some particular cases in continuum mechanics.