A taste of generalized complex geometry

Generalized geometry, as introduced by Hitchin and Gualtieri in 2003, is a new framework for geometrical structures: for instance, complex and symplectic structures become particular cases of a so-called generalized complex structure. In this survey talk we will introduce the notion of a generalized complex structure, highlight the role of the underlying Courant algebroid as a substitute for the Lie algebra of vector fields, and finally mention an example of a generalized complex 4-manifold that admits neither complex nor symplectic structures.