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The double field theory algebroid from the relaxation of Courant algebroid axioms

Abstract

We discuss the underlying mathematical structure of double field theory, which is a theory formulated on a doubled geometry, with generalized diffeomorphisms. The theory comes with a constraint which we found to be captured by the relaxed Courant algebroid axioms. When time permits, we will also take a look at some investigation in progress, in a similar spirit for a particular exceptional field theory.