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Topological and dynamical aspects of the Jacobi sigma model

Wednesday, 15 June 2022 13:00 (35 minutes)

The main features of the Jacobi sigma model will be illustrated. The Jacobi sigma model is a topological field theory with target space a Jacobi manifold, and it is a generalization of the Poisson sigma model. It is a non-linear gauge theory and it has interesting properties which can be useful for both physical and mathematical applications. In particular, contact as well as locally conformal symplectic manifolds will be considered as target spaces for the model, leading to interesting results for string backgrounds. A dynamical extension will be also discussed and applied for the SU(2) Lie group as a contact manifold, as it shows an interesting relation with Poisson-Lie T-duality.

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