Contribution ID: **20**   Type: **not specified**

Equivariant BV Formalism for String Worldsheet

Thursday 23 September 2021 16:15 (30 minutes)

Worldsheet diffeomorphisms play a central role in string perturbation theory. In the BV approach to world-sheet theory, we need the measure on the space of Lagrangian submanifolds to be base with respect to diffeomorphisms. We discuss a general construction of such base forms. In particular, we explain that it is equivalent to constructing a representation of some Differential Graded Lie Algebra, which was previously introduced in the context of current algebras and called Dg. This clarifies the procedure of covariant insertion of vertex operators on the string worldsheet.

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