



Contribution ID: 65

Type: Poster

Hamilton-Jacobi Formulation of Topologically Massive Yang-Mills Theory in the Null-Plane Gauge

The Hamilton-Jacobi formalism of topologically massive Yang-Mills theory is applied to null-plane dynamics. A complete set of Hamiltonians in involution and non-involution that generate the system's dynamics is determined. From the characteristic equations, the generator of the gauge transformation is calculated. Finally, the null-plane gauge conditions are imposed, and the generalized brackets of the theory are derived.

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Session Classification: Posters & Pizza

Track Classification: QFT, String Theory, AdS/CFT Correspondence