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   Autore   Hoogeveen Joost

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                          Joost Hoogeveen

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   Nota di contenuto   Contents; Preface; 1. String theory; 2. Pure spinor formalism; 3. Basic
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                          Decoupling of unphysical states; 6. Discussion and conclusion;
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   Sommario/riassunto   This thesis presents recent developments within the pure spinor
                          formalism, which has simplified amplitude computations in
                          perturbative string theory, especially when spacetime fermions are
                          involved. Firstly the worldsheet action of both the minimal and the
                          non-minimal pure spinor formalism is derived from first principles, i.e.
                          from an action with two dimensional diffeomorphism and Weyl
                          invariance. Secondly the decoupling of unphysical states in the minimal
                          pure spinor formalism is proved.