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D-instanton Effects in Type IIB String Theory

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We study D-instanton contributions to supergravity scattering amplitudes beyond the leading order. These effects are non-perturbative in the string coupling, and are constrained by S-duality at low orders in the momentum expansion of the spacetime effective action. Our worldsheet approach reproduces the results expected from S-duality and also predicts infinitely many terms at higher orders in the momentum expansion.

Type of contribution

Contributed Talk only

Auteur principal: BALTHAZAR, Bruno (University of Chicago)

Orateur: BALTHAZAR, Bruno (University of Chicago)

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