

Institut Henri Poincaré
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String Theory in Greater Paris

Rencontres Théoriciennes
“Supergravité, théorie des cordes et théorie M”

Jeudi 27 Mars 2025, 10:00

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Durham

Modular Structures in $N=4$ SYM

I will review some recent results in $N=4$ SYM where we compute exactly, as functions of the holomorphic coupling constant τ and the number of colours N , certain integrated correlators of four superconformal primary operators in the stress-tensor multiplet, as well as integrated correlators of two such operators in the presence of a half-BPS line defect. The modular properties of these physical observables induced by electro-magnetic duality will prove of fundamental importance in our discussion.

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<http://string.lpthe.jussieu.fr>
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