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String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

Jeudi 12 Mai 2016, 11:45

Emery Sokatchev

LAPTH

LHC superspace and its applications

We describe the formulation of N=4 super-Yang-Mills theory in Lorentz harmonics chiral (LHC) superspace. It is an alternative to the twistor approach, based on the conceptually simpler notion of harmonic functions on the Lorentz group. We explain how the theory is quantized and how the full non-chiral supersymmetry is restored. As an application we show how the correlation functions and form factors of the N=4 stress-tensor multiplet are computed from first principles. These quantities are intimately related to scattering amplitudes.

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Retrouvez les activités de la communauté parisienne de théorie des cordes sur
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