Institut Henri Poincaré

11 rue Pierre et Marie Curie, 75231 Paris cedex 05

String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

Lundi 7 Décembre 2020, 11:00

Massimo Taronna

Università degli Studi di Napoli Federico

Bootstrapping Inflationary Correlators in Mellin Space

The bootstrap philosophy has found remarkable successes in the context of Conformal Field Theories. These advances were mostly consequences of powerful non- perturbative implementations of causality and unitarity which translated into key results in the context of the dual gravitational theories in Anti de Sitter space. In this talk I will discuss recent progress towards the analogous problem in de Sitter space. Making use of a recently introduced Mellin-Barnes representation for momentum space correlators, I will discuss how to express dS exchange amplitudes in terms of AdS ones and how to employ conformal bootstrap methods like the spectral representation, Mellin Amplitudes and crossing decomposition in de Sitter space.

Institut Henri Poincaré, salle 314, 3ème étage