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”

Jeudi 29 Septembre 2016, 10:00

Cezar Condeescu

Open strings and Electric Fields in Compact Spaces

We are investigating open string models with boundary electric fields in the context of toroidal compactification. It has been known that that these models are non-supersymmetric and have a pair-creation instability. In the talk I will discuss electric fields in compact spaces. We find that there are two classes of models depending on whether the angle made by the electric field with one of the axes of the torus is quantised or not. Furthermore we point out that in models with several stacks of branes there can be oblique sectors, that is strings strethed between non-parallel electric fields. I will show the quantisation of these sectors ; they realise in principle a Thomas precession effect for open strings.

Institut Henri Poincaré, salle 314, 3ème étage