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 22 Mars 2018, 10:00

Nikolay Bobev

KU Leuven

An Étude on 3d N=2 Conformal Manifolds

I will discuss the one-dimensional complex conformal manifold that controls the infrared dynamics of a three-dimensional N=2 supersymmetric theory of three chiral superfields with a cubic superpotential. Two special points on this conformal manifold are the XYZ model and three decoupled copies of the critical Wess-Zumino model. The conformal manifold enjoys a discrete duality group and can be thought of as an orbifold of CP1. I will describe how to compute the spectrum of low lying operators and their OPE coefficients as a function of the coordinates on the conformal manifold using the epsilon-expansion and the numerical conformal bootstrap.

Institut Henri Poincaré, salle 314, 3ème étage