Institut Henri Poincaré

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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

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