

## **E. Dudas: "Multi-instanton and one-loop string corrections in toroidal orbifold models"**

*Monday, 28 July 2008 14:30 (30 minutes)*

We analyze N=2 perturbative and non-perturbative corrections in type I orbifold models where a dual heterotic description is available. We consider in particular the Bianchi-Sagnotti-Gimon-Polchinski orbifold. By exploiting perturbative calculations of the physical gauge couplings on the heterotic side, we obtain multi-instanton and one-loop string corrections to the Kähler potential and the gauge kinetic function. We argue that these corrections are universal in a given class of models where target-space modular invariance holds.

**Primary author:** DUDAS, Emilian (Ecole Polytechnique and U. Paris-Sud, Orsay)

**Track Classification:** W2