

## **M. Trapletti: "Toric resolution of Heterotic orbifolds"**

*Thursday 7 August 2008 10:00 (30 minutes)*

We describe how to reproduce a large class of heterotic orbifold models as compactifications of 10d SUGRA on smooth manifolds in the presence of gauge fluxes. We show how to construct the smooth manifolds by resolving the orbifold singularity using toric geometry, and how to consistently embed  $U(1)$  gauge fluxes on them. Finally we match the obtained models with the standard heterotic orbifold models.

**Author:** TRAPLETTI, Michele (Ecole Polytechnique)

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