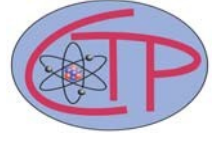




NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
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String Theory and Its Uses

Presented by:

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Abstract

I will give an introduction to string theory with special emphasis on two topics of phenomenological interest. The first is moduli stabilization. Moduli are massless scalars without a potential in the 4d effective action. Standard string compactifications have many such fields. However, in order to relate those compactifications to particle phenomenology, it is essential to generate potentials for the moduli. I will explain how this can be achieved via a combination of classical and quantum effects. The second topic is gauge/gravity duality. This is a recently developed powerful tool to study gauge theories at strong coupling. I will describe an application of this duality to models of dynamical electroweak symmetry breaking.