Iberian Strings 2019



Contribution ID: 7

Type: not specified

(Super) Maxwell Symmetries and Infinite Dimensional Algebras

Wednesday, 23 January 2019 11:15 (30 minutes)

The Poincaré algebra can be extended (non- centrally) to the Maxwell algebra and beyond. These extensions are relevant for describing particle dynamics in electro-magnetic backgrounds. They also appear in gravity theories. We establish the relation of this construction to Free Lie algebras. We will also consider the supersymmetric extension and the role of Free super Lie algebras and Borcherds super algebras as possible symmetries of M theory. Title: (Super) Maxwell Symmetries and Infinite Dimensional algebras Abstract The Poincaré algebra can be extended (non- centrally) to the Maxwell algebra and beyond. These extensions are relevant for describing particle dynamics in electro-magnetic backgrounds. They also appear in gravity theories. We establish the relation of this construction to Free Lie algebras. We will also consider the supersymmetric extension and the role of Free super Lie algebras and Borcherds super algebras as possible symmetrics. We establish the relation of this construction to Free Lie algebras. We will also consider the supersymmetric extension and the role of Free super Lie algebras and Borcherds super algebras as possible symmetries of M theory. Title: (Super) Maxwell Symmetries and Infinite Dimensional algebras Abstract The Poincaré algebra can be extended (non- centrally) to the Maxwell algebra and beyond. These extensions are relevant for describing particle dynamics in electro-magnetic backgrounds. They also appear in gravity theories are be extended (non- centrally) to the Maxwell algebra and beyond. These extensions are relevant for describing particle dynamics in electro-magnetic backgrounds. They also appear in gravity theories. We establish the relation of this construction to Free Lie algebras. We will also consider the supersymmetric extension and the role of Free super Lie algebras. We will also consider the supersymmetric extension and the role of this construction to Free Lie algebras. We will also consider the supersymmetric extension and the role of Free super Lie algebras

Presenter: GOMIS, Joaquim