



ID de Contribution: 73

Type: **Oral Presentation**

A Snowball's Chance in Hell: The Hierarchy Problem in Particle Physics

mardi 10 mai 2016 11:45 (15 minutes)

The so-called “Hierarchy Problem” is one of the main driving forces behind the nowadays exploration of physics beyond the Standard Model (BSM). In its simplest form, the Hierarchy Problem asks why the weak interaction is $\sim 10^{30}$ times stronger than gravity. The goal of this presentation is to state the body of the problem in a precise yet accessible manner, with a particular emphasis on the concept of symmetry in particle physics. Afterwards, I will briefly discuss how this problem can be solved in various BSM theories, such as Supersymmetry, Compositeness and Extra Dimensions.

Auteur principal: M. ANGELESCU, Andrei (CNRS / Univ. Paris-Sud)

Orateur: M. ANGELESCU, Andrei (CNRS / Univ. Paris-Sud)

Classification de Session: Beyond standard model

Classification de thématique: Particle Physics