



ID de la contribución : 81

Tipo : **Contributed talk**

## Mass hierarchy and naturalness from TeV scale strong dynamics

*lunes, 23 de mayo de 2016 18:10 (20)*

A non-perturbative mechanism for dynamical generation of the mass of elementary particles, both fermions and weak bosons, is presented in a simplified gauge model. Within this framework, which is under test by numerical simulations, elementary particle masses arise naturally in a certain chiral symmetry limit with a magnitude that is controlled by the strongest interaction each particle is subjected to. To accomodate top and weak boson masses, a new strong interaction with an intrinsic RGI scale of the TeV order must be postulated.

**Primary author(s) :** Prof. ROSSI, Giancarlo (INFN, University of Rome Tor Vergata, Physics Dept. and Centro Fermi - Museo Storico della Fisica, Piazza del Viminale 1 - 00184 Roma, Italy); FREZZOTTI, Roberto (Univ Roma Tor Vergata and INFN)

**Presenter(s) :** FREZZOTTI, Roberto (Univ Roma Tor Vergata and INFN)

**Clasificación de la sesión :** BSM 1

**Clasificación de temáticas :** SUSY/Higgs/BSM