



Contribution ID: 277

Type: **Parallel**

## The nature of spontaneous and dynamical gauge symmetry breaking

*Thursday 20 June 2019 16:50 (20 minutes)*

The Elitzur theorem does not rule out the breaking of a global subgroup of a gauge group in some gauge, either spontaneously or dynamically. But it is known that such breaking occurs at different couplings in different gauges, and is not necessarily associated with a thermodynamic transition. In this talk I will outline a gauge invariant distinction between the unbroken and Higgs regions of a gauge-Higgs theory, based on the concept of custodial symmetry.

**Authors:** Prof. GREENSITE, Jeff (San Francisco State University); Dr MATSUYAMA, Kazue (San Francisco State University)

**Presenter:** Prof. GREENSITE, Jeff (San Francisco State University)

**Session Classification:** Theoretical Developments

**Track Classification:** Theoretical Developments