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BSM Physics from Enlarged Gauge Symmetry: the 331 Model, a case of study.

Thursday, July 11, 2019 6:00 PM (15 minutes)

We discuss the most relevant features of a BSM model with extra gauge symmetry, the so called 331 model. The gauge group is $SU(3)_c \times SU(3)_L \times U(1)_X$ implying the presence of extra gauge bosons, both charged and neutral, as well as extra/exotic fermions and an enlarged scalar sector. We present the relevant phenomenology of doubly-charged gauge bosons, which are a distinctive feature of a version of the 331 model, and discuss the role of BSM phenomenology as a tool for testing GUT (inspired) theories.

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