

Exotic colored scalars at the LHC

Tuesday 13 December 2016 16:40 (15 minutes)

I will discuss the phenomenology of colored scalars with exotic electric charges, in particular i will focus on non standard SU(2) multiplets.

I will describe the LHC signatures arising from their production showing that, in some significant scenarios, the limits can still be very mild allowing for the existence of several light scalars below 500 GeV.

Finally I will talk about the constraints which can be set considering instead the production of the scalars bound states.

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