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The Madala hypothesis - Theory and Constraints

In this work we are hypothesising three real scalar bosons (H, S, χ) in a theory beyond the Standard Model. Our aim is to formulate a proper theory by considering an effective approach and as well by considering two Higgs doublet model. Further we study a viable parameter space to constraint the associated parameter spaces like couplings and masses of these bosons via experimental results and dark matter constraints. Further a speculations on the characteristics of S and χ has been studied.

I intend to submit my contribution for the proceedings

Yes

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