Scalars 2017



Content:

I will discuss the extension of the Standard Model by a doublet and a complex scalar singlet and a pair of heavy vector quarks. This model provides an extra source of spontaneous CP violation and a strong enough first-order electroweak phase transition to suppress the baryon-violating sphaleron process. This model contains a proper description for baryogengesis and provides a correct relic density of dark matter (DM) while fulfilling direct and indirect DM detection limits and simultaneously agreeing with the LHC results.

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