

ERRATUM

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New Results for the Inert Doublet Model

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We have found an error in our calculations which causes modifications of the results following from the perturbative unitarity condition for the Mixed Model.

1. The correct region of allowed masses in the general Mixed Model (Fig. 2, right panel in the original paper) is presented in Fig. 1.

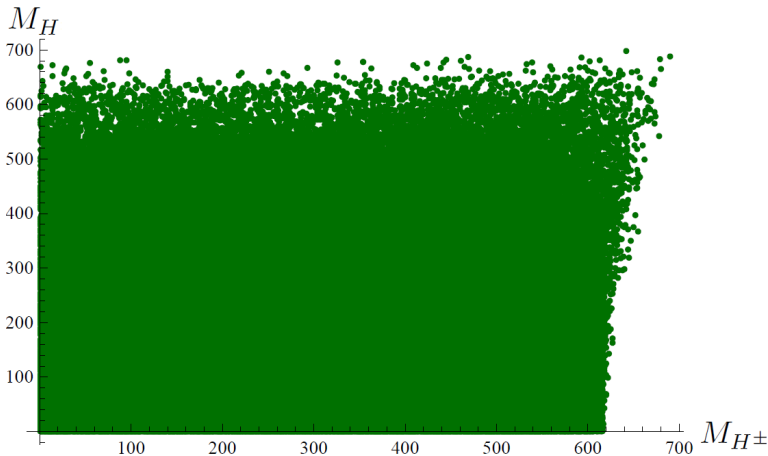


Fig. 1. Region of masses allowed by the perturbative unitarity condition in the Mixed Model.

2. In the SM-like Mixed Model the upper bound on M_A is unchanged with respect to the general case, *i.e.* is of the order of 700 GeV. Moreover, the bound on M_{H^\pm} (Eq. (7)) is as follows: $M_{H^\pm} \leq 616$ GeV. Thus, we cannot draw the conclusion that the SM-like Mixed Model scenario with $M_h \in [114, 145]$ GeV is excluded.