Annual Meeting of the CRC TRR 257



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Cornering the Two-Higgs-Doublet II Model

Thursday, May 27, 2021 2:00 PM (20 minutes)

We perform a comprehensive study of the allowed parameter space of the Two-Higgs doublet model (2HDM) of type II. Using the theoretical framework flavio, we combine the most recent flavour, collider and electroweak precision observables with theoretical constraints to obtain bounds on the mass spectrum of the theory. In particular we find that the wrong-sign limit is excluded and potential deviations from the alignment limit can only be small. Finally we test the consequences of our allowed parameter space on electro-weak baryo genesis via the programme package BSMPT.

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Session Classification: Young Scientists Forum