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The $Zb\bar{b}$ vertex in a CP-conserving Left-Right model

We study the one-loop corrections to the $Zb\bar{b}$ vertex in the framework of a left-right model. A CP-conserving left-right model with two additional heavy gauge-bosons, two charged scalars, two pseudoscalars and four physical scalars is under consideration. We compute the couplings in an arbitrary gauge and show that the divergent contributions cancel. However, the contributions of the new scalars produce a negative corrections to the couplings, which does not help to solve the anomaly of the $Zb\bar{b}$ vertex.

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