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One-loop Radiative Corrections to the ρ Parameter

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We implement a one-loop analysis of the ρ parameter in the Left Right Twin Higgs model, including the logarithmically enhanced contributions from both fermion and scalar loops. Numerical results show that the one-loop contributions are dominant over the tree level corrections in most regions of parameter space. The experimentally allowed values of ρ -parameter divide the allowed parameter space into two regions; less than 670 GeV and larger than 1100 GeV roughly, for symmetry breaking scale f . Our numerical analysis significantly reduces the parameter space which are favorably accessible to the LHC.

Authors: Dr JUNG, Dong-Won (Korea Institute of Advanced Study (KIAS)); Dr LEE, Jae Yong (Korea Institute of Advanced Study (KIAS))

Presenter: Dr JUNG, Dong-Won (Korea Institute of Advanced Study (KIAS))

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