

B-Mixing and $b \rightarrow s$ gamma in the Lee-Wick Standard Model

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The Lee Wick Standard Model (LWSM) is an extension of the Standard Model and was recently proposed by Grinstein, O'Connell and Wise. It makes use of higher derivatives terms in the Lagrangian to introduce Lee-Wick states of negative norm. These heavy states (1TeV) cancel the quadratic divergences which arise due to the Higgs self-coupling. It is of interest to investigate the effects of this model in the flavour sector. Processes such as B^0 -mixing and $b \rightarrow s$ gamma can then be used to constrain the mass of these heavy Lee-Wick states. I will briefly summarise the LWSM and present results of calculations of B-mixing and $b \rightarrow s$ gamma in this model.

Talk, Poster, or Talk & Poster

Talk

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