

Models solving ϵ'/ϵ anomaly

- Several new physics models have been studied to explain ϵ'/ϵ anomaly

MSSM -- chargino Z penguin

[M. Endo, S. Mishima, D. Ueda and KY, PLB762(2016)493]

-- gluino Z penguin

[M. Tanimoto and KY, PTEP(2016)no.12,123B02]

-- gluino box

*[T.Kitahara, U.Nierste and P.Tremper, PRL117(2016)no.9, 091802
A.Crivellin, G.D'Ambrosio, T.Kitahara and U.Nierste, 1703.05786]*

Vector-like quarks

[C.Bobeth, A.J.Buras, A.Celis and M.Jung, JHEP1704(2017)079]

Little Higgs Model with T-parity

[M.Blanke, A.J.Buras and S.Recksiegel, EPJ.C76 (2016)no.4,182]

331 model

*[A.J.Buras and F.De Fazio, JHEP1603(2016)010
& JHEP1608 (2016) 115]*

Right handed current

*[V.Cirigliano, W.Dekens, J.de Vries and E.Mereghetti, PLB 767 (2017) 1
S.Alioli, V.Cirigliano, W.Dekens, J.de Vries and E.Mereghetti, JHEP1705 (2017)086]*

- Different implications (correlations & predictions) for other observables appear depending on models \Rightarrow Possibility of model discriminations