

Scalars 2019



Contribution ID : 9

GUT inspired gauge-Higgs unification: CKM and ILC physics

Friday 13 Sep 2019 at 12:00 (00h30')

Content :

SO(5) $\times$ U(1) gauge-Higgs unification yields nearly the same phenomenology at low energies. It predicts new particles (KK excited states) around 7 - 8 TeV. In particular, the effect of Z' particles can be clearly seen in the early stage of 250 - 500 GeV ILC in the fermion pair production processes as interference effects. Recently a new gauge-Higgs unification scheme has been proposed which can be implemented in the GUT scenario. The CKM matrix in the quark sector is explained there, with FCNC being naturally suppressed.

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Session classification : Plenary 10

Track classification : --not yet classified--

Type : --not specified--