ID de Contribution: **23** Type: **YSF (Young Scientists Forum)**

One-loop effective non-linear Lagrangian with a light H-boson

mardi 17 mars 2015 19:58 (5 minutes)

We perform the off-shell one loop renormalization of the chiral effective Lagrangian for a light (composite) Higgs particle up to four derivatives, based on a non-linear realization of the $SU(2)_L \times U(1)_Y$ gauge symmetry. We consider the full would-be Goldstone bosons and Higgs sector of the Lagrangian. As a result of off shell renormalization chiral non-invariant divergences appear. We have demonstrated how these divergences can be removed by field redefinitions and therefore proved that they have no impact on physical observables.

Auteurs principaux: Mlle GAVELA, Belen (Madrid autonoma Univ.Spain); M. KANSHIN, Kirill (INFN Padova/ University of Padova); MACHADO, Pedro (Universidad Autonoma de Madrid)

Orateur: M. KANSHIN, Kirill (INFN Padova/ University of Padova)

Classification de Session: Young Scientist Forum 2

Classification de thématique: Theory