

Miami Physics Conference 2022

Thomas McCarty

Title: Strongly Coupled SU(2) and Self Higgs Yang Mills Computational Scheme

A strongly coupled scheme is developed for a self Higgs SU(2) Yang Mills interacting with up and down quarks. The strong coupling analysis is carried out by choosing the gluons and quarks wave functions to have a composite functional form where the numerator functions solve the usual linear part of the equations of motion and denominator part of the gluon wave functions will be approximately solved by considering the dominant classical quadratic and cubic Yang Mills interactions in the equations of motion.