

Partially Composite two-Higgs doublet model

Monday 13 March 2006 11:40 (20 minutes)

We consider a possibility that electroweak symmetry breaking (EWSB) is triggered by both a fundamental Higgs and a composite Higgs arising in a dynamical symmetry breaking mechanism induced by a new strong dynamics. The resulting Higgs sector is a partially composite two-Higgs doublet model with specific boundary conditions on the coupling and mass parameters originating at a compositeness scale Λ .

The phenomenology of this model is discussed including the collider phenomenology at LHC and ILC.

Authors: Dr CHUNG, Byungchul (KAIST); Dr JUNG, Dong-Won (Korea Institute of Advanced Study (KIAS)); Prof. LEE, Kang Young (KAIST); Prof. KO, Pyungwon (KIAS)

Presenter: Dr JUNG, Dong-Won (Korea Institute of Advanced Study (KIAS))

Session Classification: Higgs and EWSB

Track Classification: Higgs and EWSB