

Portoroz 2013: Probing the Standard Model and New Physics at Low and High Energies

Contribution ID: 56

Type: **not specified**

COMPOSITE TWO HIGGS DOUBLET MODELS

Thursday 18 April 2013 11:49 (22 minutes)

Composite two Higgs doublet models, where the Higgs fields arise as composite pseudo Nambu-Goldstone modes from the breaking of global symmetries in a strong interacting sector, are described with emphasis on the crucial issues of anomalous contributions to the T parameter and to Flavor Changing Neutral Currents. The non linear Lagrangians of several models are explicitly derived and the contributions to T are identified. The embedding of the SM fermions in the theory are also discussed and implemented so to avoid large corrections to the Z coupling to the b quarks. We propose a model based on the breaking of SO(9) into SO(8) that is free from anomalous contributions to T, to FCNC and to the b quark neutral current.

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Session Classification: Higgs and EW IV