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Linear sigma model for the composite H – experimental tests

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In order to explore a possible dynamical nature for the Higgs field (such as its being a pseudogoldstone boson) we develop a renormalizable Lagrangian based on the minimal $SO(5)$ linear σ -model with the symmetry softly broken to $SO(4)$, including gauge bosons and fermions. We then present the phenomenological implications and constraints from precision observables and the impact on present and future LHC data.

Authors: Mlle GAVELA, Belen (Madrid autonoma Univ.Spain); Prof. FERUGLIO, Ferruccio (INFN Padova/University of Padova); M. KANSHIN, Kirill (INFN Padova/ University of Padova); MACHADO, Pedro (Universidad Autonoma de Madrid); SAA, Sara (IFT-UAM Madrid); M. RIGOLIN, Stefano (Departamento de Fisica Teorica, Universidad Autonoma de Madrid, Spain)

Orateur: SAA, Sara (IFT-UAM Madrid)

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