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Bridging Composite Higgs and Technicolor with Higgs data

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We focus on the possibility that the Higgs boson is a state which is either as a Pseudo Goldstone Boson of an effective Lagrangian description or as a composite state made of technini fermions. In this composite Higgs model, the symmetry breaking pattern is SU(4)/SP(4) and the light Higgs will further mix with a heavier techni-Higgs. We consider the constraints on the parameter space both from the Higgs coupling measurements and the EW precision test and mainly discuss the phenomenology related to the eta particle as well as the heavier Higgs.

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