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Singlets in Composite Higgs Models in light of the LHC di-boson searches

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Models of compositeness can successfully address the origin of the Higgs boson, as a pseudo-Goldstone of a spontaneously broken global symmetry, and flavour physics via the partial compositeness mechanism. If the dynamics is generated by a simple underlying theory defined in terms of a confining gauge group with fermionic matter content, there exists only a finite set of models that have the correct properties to account for the Higgs and top partners at the same time. As a prediction, one obtains additional light scalars. We study the phenomenology of this additional scalar in light of the di-boson searches at LHC.

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