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Minimal Composite Dynamics versus Axion Origin of the Diphoton excess

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ATLAS and CMS observe deviations from the expected background in the diphoton invariant mass searches of new resonances around 750 GeV. We show that a simple realization in terms of a new pseudoscalar state can accommodate the observations. The model leads to further footprints that can be soon observed. The new state can be interpreted both as an axion or as a highly natural composite state stemming from minimal models of dynamical electroweak symmetry breaking. We further show how to disentangle the two scenarios.

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