

Search for Light Pseudoscalar Boson in the Composite Higgs Model using the CMS Detector

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A search for a light pseudoscalar (a) in the composite Higgs model is performed in the gluon-gluon fusion production channel with decay to di-tau. The lightness of a makes it such that the most promising topology is that of a boosted di-tau topology, where a is created with significant momentum transverse to the LHC beam line before decaying into a pair of taus. Preliminary investigations have been done to show that this search is accessible with CMS Run 2 data.

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