

New pathways for ALP discovery

Various Composite Higgs Models predict the existence of additional light scalars that are difficult to search for in standard experimental setups such as ATLAS or CMS. LHCb offers a unique opportunity to constraint these models, targeting various channels such as muon pairs, tau pairs, di-photons, but also charmed and bottom mesons. We review previous work (2106.12615) done in this context, and point to new possibilities opened by the recent upgrades and extension of Run3.

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