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Dilaton-Assisted composite Higgs model at LHC

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We study a recently proposed dilaton-assisted composite Higgs model, which addresses a new solution to the Higgs naturalness problem, relying the scale symmetry of the dilator-Higgs effective theory. The model predicts a heavy U(1) axial vector boson and two massive, oppositely charged, pseudo Nambu-Goldstone bosons. We discuss the phenomenology of new particles, which might be accessible at LHC.

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