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Weak scale from clockwork mechanism in heterotic M-theory

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Compactifications of heterotic M-theory are shown to provide solutions to the weak-scale hierarchy problem as a consequence of warped large extra dimensions. They allow a description that is reminiscent of the so-called continuous clockwork mechanism. The models constructed here cover a new region of clockwork parameter space and exhibit unexplored spectra and couplings of Kaluza-Klein modes. Relations to previously proposed models as well as roles played by vector multiplets and the universal hypermultiplet in 5D-supergravity are also discussed.

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