

# Weak/strong gauge duality in M-Theory on K3xK3

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Testing the Swampland conjectures in the context of string theory on Calabi-Yau threefolds has led to interesting results, both mathematically and physically. We generalize results of fibration structure of Calabi-Yau fourfold with finite volume in infinite distances in the moduli space. By applying these results to compactifications of M-theory on K3xK3 we relate weak coupling and strong coupling regimes to each other, which allows for non-perturbative treatment of the three-dimensional Effective field theory. This allows testing the Asymptotic Weak Gravity Conjecture in three dimensions.

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