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Swampland conjectures at the limits in field space

Monday, 24 June 2019 09:30 (30 minutes)

String compactifications are often performed in some asymptotic regime in field space, such as at weak string coupling or at large volume. I introduce the theory allowing to systematically analyze all such large field limits in geometric moduli spaces. I argue that along each of such limits a universal structure emerges that can enlighten and test proposed swampland conjectures. I will exemplify this by briefly discussing evidence for the distance conjecture, the axion weak gravity conjecture, and the de Sitter conjecture.

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