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Progress in constructing KKLT de Sitter vacua

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I present type IIB Calabi-Yau orientifold flux compactifications that contain all the necessary components of KKLT de Sitter vacua. Specifically, I exhibit 4-dimensional SUSY AdS vacua featuring conifold regions and small values of the superpotential, in which all moduli, including Kähler moduli, are stabilised in a controlled way. In these vacua the inclusion of a single anti-D3 brane makes the vacuum energy positive. We argue that in the absence of corrections to the Kachru-Pearson-Verlinde EFT, these configurations are de Sitter vacua, as suggested by KKLT. Detailed study of corrections to this EFT, and their effects on these vacua, is ongoing.

Presenter: SCHACHNER, Andreas **Session Classification:** Parallel