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## A new perspective on flux vacua

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Moduli stabilisation in string compactifications with many light scalars remains a major blind-spot in the string landscape. In these regimes, analytic methods cease to work for generic choices of UV parameters which is why numerical techniques have to be exploited. In this talk, I report on new numerical approaches to efficiently construct string vacua. Our approach heavily utilises automatic differentiation, just-in-time compilation and parallelisation features, to efficiently construct string vacua. I argue that this implementation provides a golden opportunity to efficiently analyse large unexplored regions of the string landscape. As a first example, I report on the application of our techniques to the search of Type IIB flux vacua in Calabi-Yau orientifold compactifications.

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