

## The string theory landscape (M. Graña) : References

Here are references for the lectures. These are all lecture notes, or reviews. Original references can be found there.

- On swampland, there are many nice lectures, such as <https://arxiv.org/abs/2102.01111>, which connects to string compactifications.

- Basics of string compactifications can be found in these lecture notes <https://courses.ipht.fr/sites/default/files/local-media-files--2025-01-14%2017%3A39/Notes.pdf>

- Lectures on maximal (32 supercharges) and half-maximal (16) gauged supergravity, see e.g. <https://arxiv.org/abs/0808.4076>

- More details on CY and CY orientifold compactifications with fluxes (or in general on reductions leading to EFTs with  $N=2$  and  $N=1$  susy), supersymmetric vacua and a little bit of dS <https://arxiv.org/abs/hep-th/0509003>

- Lectures on string compactifications and swampland that are complementary to mine <https://arxiv.org/abs/2305.01722> (lecture notes from Van Riet's course at CERN winter school)

As for non-supersymmetric strings, you can take a look at some of the original articles (no review so far)

- <https://inspirehep.net/literature/227255> (original paper for the non-SUSY heterotic one)

- <https://arxiv.org/pdf/hep-th/9707160> (it studies the dualities so it serves a bit as a review and source for further references)

In our work <https://arxiv.org/abs/2307.13745> we explain the  $SO(16) \times SO(16)$  in 10d and 9d, plus all this story about one loop potential, and the  $AdS_3 \times S^3 \times S^3 \times S^1$  non-susy vacua of Sethi et al (<https://arxiv.org/abs/2212.02557>)