

## Exploring the toroidal heterotic landscape

*Tuesday 13 July 2021 09:30 (30 minutes)*

The moduli space of heterotic strings compactified on a  $d$ -dimensional torus contains special points where the gauge symmetry is enhanced only to certain groups of rank  $(d+16)$ . We state criteria, based on embeddings into the Narain lattice, to establish whether a gauge group occurs or not and describe how to obtain the corresponding moduli. Orbifold compactifications that realize the CHL strings with gauge groups of reduced rank  $(d+8)$  are also analyzed. For  $d=1,2$  we obtain all the maximally enhanced gauge groups. Connections to the Swampland Program will be discussed.

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