

## Local Heterotic Reductions

*Thursday, 27 June 2019 16:30 (15 minutes)*

Hitchin systems and Higgs bundles have recently been used to understand local aspects of M-theory compactifications on G2 manifolds. I will consider a similar approach from the heterotic point of view, using the heterotic/M-theory duality. Specifically, I will study  $\alpha'$  corrections to the reduced heterotic system using the Hull-Strominger system. I will present some explicit solutions and also make some observations on the reduced moduli problem, which couples gauge and gravitational degrees of freedom once  $\alpha'$ -corrections are included.

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**Session Classification:** Parallel Session