The Hull-Strominger system over Riemann surfaces

by

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Abstract
The Hull-Strominger system is a system of nonlinear PDEs describing the geometry of compactification of heterotic strings with flux to 4d Minkowski spacetime, which can be regarded as a generalization of Ricci-flat Kahler metrics coupled with Hermitian Yang-Mills equation on non-Kahler Calabi-Yau 3-folds. In this talk, we present an explicit construction of smooth solutions to the Hull-Strominger system with infinitely many topological types and sets of Hodge numbers, thus showing that there may be infinitely many candidates in the string theory landscape when flux is present.

Date: Tuesday, 20 August 2019
Time: 4:00p.m. - 5:00p.m.
Venue: Room 5508, Academic Building (near Lifts 25-26), HKUST

All are welcome!