



The Institute of Mathematical Sciences
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Joint Harvard-CUHK-YMSC Differential Geometry Seminar

Lagrangians and mirror symmetry in the Higgs bundle moduli space

Abstract: The talk concerns recent work with Tamas Hausel in asking how SYZ mirror symmetry works for the moduli space of Higgs bundles. Focusing on C^* -invariant Lagrangian submanifolds, we use the notion of virtual multiplicity as a tool firstly to examine if the Lagrangian is closed, but also to open up new features involving finite-dimensional algebras which are deformations of cohomology algebras. Answering some of the questions raised requires revisiting basic constructions of stable bundles on curves.

By

Professor Nigel Hitchin

University of Oxford

Date:	December 1, 2021 (Wednesday)
Time:	4:00pm – 5:00pm (Hong Kong Time)
Zoom Link:	https://cuhk.zoom.us/j/99285825827 (Meeting ID: 992 8582 5827; Passcode: 20211201)

All are Welcome