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The Institute of Mathematical Sciences **The Chinese University of Hong Kong**

數學科學研究所 香港中文大學

Phone: (852) 3943 8038 • Email: ims@ims.cuhk.edu.hk Unit 601, 6/F., Academic Building No. 1, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Joint Harvard-CUHK-YMSC Differential Geometry Seminar

Donaldson-Thomas invariants and hyperkahler manifolds: the example of theories of class S[A1]

<u>Abstract</u>: I will report on a project which aims to encode the DT invariants of a CY3 triangulated category in a geometric structure on its stability space. I will focus on a class of categories whose stability spaces were studied in previous joint work with Ivan Smith, and which correspond in physics to theories of class S[A1]. I will describe the resulting geometric structures using a kind of complexified Hitchin system parameterising bundles on curves equipped with pencils of flat connections.

By Professor Tom Bridgeland

University of Sheffield

Date:	February 23, 2022 (Wednesday)
Time:	4:00pm – 5:00pm (Hong Kong Time)
Zoom Link:	https://cuhk.zoom.us/j/94410733353 (Meeting ID: 944 1073 3353; Passcode: 20220223)

All are Welcome