From:	Quoc P. Ho
То:	Wei Ping LI; Yongchang ZHU; Min YAN; Beifang CHEN; Huai-Liang CHANG; Eric MARBERG; Ivan Ip; Guowu
	MENG; Maosheng XIONG
Cc:	Noreen L S LEE; Priscilla L S WONG
Subject:	Algebra and Geometry Seminar
Date:	Tuesday, May 9, 2023 10:56:42 AM

Dear all,

This week, Sasha Minets from The University of Edinburgh will give a talk at our Algebra and Geometry Seminar. Details are below (but as usual, they can also be found <u>here</u>). It'll be an in-person talk in 5564. Please note the unusual time: 11 am, Wednesday, May 10.

Best, Quoc

**Space-time coordinates:** 11am (HKT), Wednesday, May 10, 2023. Room: 5564. **Title:** A proof of \_\_\_\_\_\_ conjecture

Abstract: Let be a smooth projective curve. The non-abelian Hodge theory of Simpson is a diffeomorphism between the character variety of and the moduli of (semi)stable Higgs bundles on Since this diffeomorphism is not algebraic, it induces an isomorphism of cohomology rings, but does not preserve finer information, such as the weight filtration. Based on computations in small rank, de Cataldo-Hausel-Migliorini conjectured that the weight filtration on gets sent to the perverse filtration on , associated to the Hitchin map. In this talk, I will explain a recent proof of this conjecture, which crucially uses the action of Hecke correspondences on . Based on joint work with T. Hausel, A. Mellit, O. Schiffmann.