THE UNIVERSITY   **OF HONG KONG**

Institute of Mathematical Research
Department of Mathematics

Geometry Seminar

Shifted Poisson geometry of Moduli spaces

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Abstract

We proved that the moduli space of complexes of vector bundles on Calabi-Yau d-fold carries a $(1-d)$-shifted Poisson structure. When $d=1$, the derived symplectic leaves of the moduli space are completely determined. We use this new technique to study the matrix algebra over the field of meromorphic functions on elliptic curves, and give geometric descriptions for the symplectic leaves. This talk is based on the joint work with Alexander Polishchuk: arxiv: 1706.09965 and arxiv: 1712.01659.

Date:	February 8, 2018 (Thursday)
Time:	2:00 – 3:00pm
Venue:	Room 210, Run Run Shaw Bldg., HKU

All are welcome