BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

ON PRODUCT IDENTITIES AND THE CHOW RINGS OF HOLOMORPHIC SYMPLECTIC VARIETIES

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January, 29, 2020, 4:00 – 5:00pm Math/Computer Science, Room B39 111 Cummington Street, Boston

Tea: 3:45pm in Room B24

Abstract: For a moduli space M of stable sheaves over a K3 surface X, we propose a series of conjectural identities in the Chow rings $CH_*(M \times X^{\ell}), \ell \geq 1$, generalizing the classic Beauville-Voisin identity for a K3 surface. We emphasize consequences of the conjecture for the structure of the tautological subring $R_*(M) \subset CH_*(M)$. We prove the proposed identities when M is the Hilbert scheme of points on a K3 surface. This is based on joint work with L. Flapan, A. Marian and R. Silversmith.

See http://math.bu.edu/research/geom/seminar.html or contact Yu-Shen Lin (yslin@bu.edu) or Siu-Cheong Lau (lau@math.bu.edu) for more information.