BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

HIGHER HASSE-WITT MATRICES AND PERIOD INTEGRALS

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March 14, 2018, 4:00 − 5:00pm
Math/Computer Science, Room 148
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

Abstract: I shall explain a program to relate the arithmetic of Calabi-Yau hypersurfaces in toric varieties or flag varieties, to their period integrals at the large complex structure limit. In particular, we prove a recent conjecture of Vlasenko regarding higher Hasse-Witt matrices. This work follows Katz's description of Frobenius action in terms of local expansions. It is joint work with Huang, Lian and Yau.

See `http://math.bu.edu/research/geom/seminar.html` or contact Yoosik Kim (*yoosik@bu.edu*) or Siu-Cheong Lau (*lau@math.bu.edu*) for more information.