

The Hong Kong University of Science and Technology Department of Mathematics

Seminar on Geometry

The tautological ring of M_g revisited

by

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Abstract

I will review the tautological ring of M_g from a representation-theoretic/motivic point of view. This allows us to completely determine the tautological rings of all fibered powers of the universal curve over M_g for g small. We also obtained some structural results along the way, and located a possible failure of the Gorenstein conjecture for the fibered powers of the universal curve. Joint work with Dan Petersen and Mehdi Tavakol.

Date: Friday, 1 March 2019

Time: 10:30 a.m. - 11:30 a.m.

Venue: Room 5562, Academic Building

(near Lifts 27-28), HKUST

All are welcome!