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The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Pure Mathematics

**Mathematical approaches to BCOV's
holomorphic anomaly**

by

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Abstract

During the last two decades, it has been a central problem to compute the Gromov–Witten (GW) invariants of Calabi–Yau 3-folds, in both geometry and physics. In this talk, we will discuss the two recent mathematical approaches to the all genera Gromov-Witten potential functions of the quintic threefold and give the sketch of the proofs. We will also talk about the possible generalization of these methods.

Date: Monday, 11 March 2019

Time: 10:30a.m. - 12:00p.m.

**Venue: Room 4504, Academic Building
(near Lifts 25-26), HKUST**

All are welcome!