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DT invariants from holomorphic curves and a geometric interpretation of Block- Göttsche invariants

Tuesday, June 20, 2017 2:30 PM (30 minutes)

Abstract

I will first describe a general analogy between DT invariants of 3-Calabi-Yau categories and holomorphic disks in holomorphic symplectic varieties. In some specific case, I will then explain an extension of this result relating refined DT invariants and holomorphic curves of higher genus. Along the way, I will give a new geometric interpretation of Block-Göttshe refined tropical curve counting.

Presenter: BOUSSEAU, Pierrick (Imperial College London)