ID de Contribution: 49

Type: Non spécifié

## Stable Pairs and Gopakumar-Vafa Invariants (5/5)

vendredi 16 juillet 2021 15:00 (1 heure)

In the first part of the course, I will give an overview of Donaldson-Thomas theory for Calabi-Yau threefold geometries, and its cohomological refinement. In the second part, I will explain a conjectural ansatz (from joint work with Y. Toda) for defining Gopakumar-Vafa invariants via moduli of one-dimensional sheaves, emphasizing some examples where we can understand how they relate to curve-counting via stable pairs. If time permits, I will discuss some recent work on  $\chi$ -independence phenomena in this setting (joint with J. Shen).

## Summary

Orateur: Prof. MAULIK, Davesh (Massachusetts Institute of Technology)