

Stable Pairs and Gopakumar-Vafa Invariants (1/5)

lundi 12 juillet 2021 17:30 (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 χ -independence phenomena in this setting (joint with J. Shen).

Summary

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