

Rational cohomology of moduli spaces of curves

Thursday, 21 September 2023 16:00 (1 hour)

In this talk we will discuss two different methods to study the rational cohomology of moduli spaces of curves. The first one is Gorinov-Vassiliev's method, which is a topological method that computes the cohomology of complements of discriminants. Similar information on the cohomology of a moduli space can be obtained through a different method, namely by counting its points over finite fields. The two methods will be presented by going through a basic example. Various results on the cohomology of moduli spaces of curves obtained using such methods will also be mentioned.

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