# GEOMETRY & PHYSICS
# SEMINAR

## 28 março | 11:00 | sala 6.2.33

### The quantum Witten-Kontsevich series

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**Abstract:**

In 1991, Witten conjectured a relation between the moduli space of curves and the KdV hierarchy via the so-called Witten-Kontsevich series. This conjecture was proved in 1992 by Kontsevich. The first goal of the talk is to clearly present this statement.
Then, I will explain how the recent developments of the Double Ramification hierarchies allow to define a quantum version of the Witten-Kontsevich series. I will finish by explaining a surprising connection between coefficients of the quantum Witten-Kontsevichseries and Hurwitz theory.

CMAFcIO

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