

INSALATE DI MATEMATICA

presents

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Universitat Politècnica de Catalunya

*Introduction to the irregular
Riemann-Hilbert correspondence*



Abstract:

In this talk, I will explain the basic idea behind the Riemann-Hilbert correspondence. It is a correspondence between two different moduli spaces: the de Rham moduli space parametrizing meromorphic differential equations, and the Betti moduli space describing the representations of the fundamental group defined by their solutions. We will see why such a correspondence breaks down for higher order poles.

Keywords: monodromy representation · meromorphic connection

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04:30 pm (CET)



*"Obvious" is the most dangerous word in mathematics.
(Eric Temple Bell)*