COLLOQUIUM DI MATEMATICA

Dipartimento di Matematica e Fisica, Università Roma Tre

ANDREA MALCHIODI

The Yamabe problem



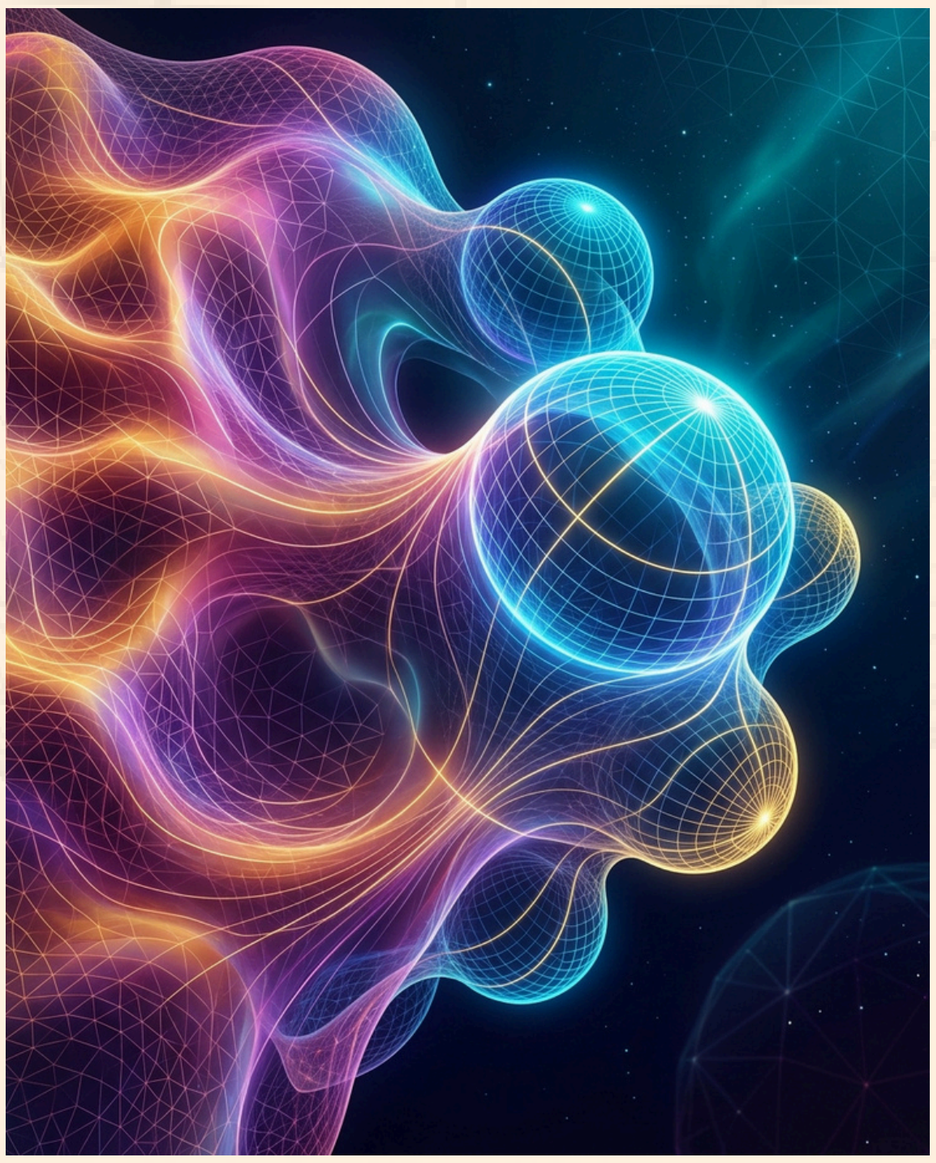
Andrea Malchiodi (SNS)

Mercoledì 2 Dicembre 2026

Ore 16.00
AULA M1
Blocco Aule S. Murialdo

ABSTRACT:

The Yamabe problem is an extension to manifolds of dimension greater or equal to three of the classical Uniformization question for Riemann surfaces. Formulated in 1960, it serves as a paradigm for geometric partial differential equations exhibiting a lack of compactness. Although the existence of solutions was fully settled in the 1980s through the landmark contributions of Trudinger, Aubin and Schoen, the problem has recently revealed new and surprising aspects.
In this talk, we will discuss the foundational results in the literature, alongside current perspectives and open problems.



Roma Tre | DIPARTIMENTO DI MATEMATICA E FISICA