



Einladung zum Oberseminar Mathematik in den Naturwissenschaften

Julius-Maximilians-Universität Würzburg
Lehrstuhl für Mathematik in den Naturwissenschaften

Rayssa Caju

University of Chicago

On the singular Q-curvature problem

The study of partial differential equations on manifolds has been extensively explored in the last few decades. In particular, some problems arising in conformal geometry such as the classical Yamabe problem, can be reduced to the study of PDE's with critical exponent on manifolds. More recently, another class of conformal equations that has drawn considerable attention is the so-called Q-curvature equation, which is a fourth-order elliptic PDE with critical exponent.

In this talk, I would like to discuss how to apply classical fixed point methods in order to understand the Q-curvature equation in a singular setting and discuss some interesting problems related to this topic.

Joint work with J.H. Andrade, J. M do Ó, J. Ratzkin and A. Silva Santos.

Ort: Zoom video conference

Zeit: Mittwoch, 14.07.2021 um 14:15 Uhr

You are cordially invited to this lecture. Request the Zoom link from anja.schloerkemper@mathematik.uni-wuerzburg.de

gez. Anja Schlömerkemper