

Ciclo Anual de Palestras, Seminários e Minicursos do Programa de Pós-Graduação em Matemática da UFF

Título:

Multiple Solutions for a Fractional Yamabe-Type Equation under Isoparametric Symmetry

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Data: 16/09

Hora: 14h

Local: Sala 407 - Bloco H - Campus Gragoatá

Resumo

We study a fractional Yamabe-type equation on compact Riemannian manifolds equipped with an isoparametric function. This symmetry reduces the nonlocal problem to a one-dimensional weighted equation on the space of orbits. After setting up the fractional Sobolev framework and the isoparametric reduction, we show that variational methods, namely the Symmetric Mountain Pass Theorem, produce infinitely many solutions to the reduced problem. Time permitting, we will also outline how the same reduction applies to bifurcation phenomena for this family of equations, identifying the bifurcation points through linearization around the constant solution.
