

# SEMINÁRIO

## DE GEOMETRIA DIFERENCIAL

IME UFF

### PALESTRANTE

Ruan Miguel Ruiz - Unam - México

### Lower bounds for the Yamabe invariant of product manifolds

We will talk about some new explicit lower bounds for the isoperimetric problem on manifolds that are the Riemannian product of a compact manifold  $M_n$  and the Euclidean space with the product metric,  $(M_n \times \mathbb{R}^m, g + g_E)$ ,  $m, n > 1$ . We will also talk about some applications of these results that improve the known lower bounds for the Yamabe invariant of certain manifolds.

This is a joint work with Areli Vázquez Juárez.

### LOCAL

Sala 407 4º andar, Bloco H, Campus do Gragoatá

### CONTATO:

[xucheng@id.uff.br](mailto:xucheng@id.uff.br)

# 01 Agosto 2024

## 14:00 h