

o Seminário

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Isoperimetric inequality for critical metrics of the volume functional

Local: Auditório IME
Horário: 22/11/2018 às 16:00
Responsável: Mauricio Donizetti Pieterzack
Organização: Grupo de Geometria
Site:

Área: Geometria
Palavras Chaves:

Resumo:

In this talk we discuss the space of Riemannian metrics on compact manifolds with boundary that satisfies a critical point equation associated with a boundary value problem. It arises from the modified (variational) problem of finding stationary points for the volume functional on the space of metrics whose scalar curvature is equal to a given constant. This subject is related to the general question of finding canonical metrics on manifolds with boundary. We will present a sharp estimate to the area of the boundary as well as an isoperimetric inequality for critical metrics of the volume functional on compact manifolds with boundary. This is a joint work with H. Baltazar (UFPI) and R. Diógenes (UNILAB).