



Universidade Federal de Campina Grande

Centro de Ciências e Tecnologia

1º Escola de Inverno em Geometria Diferencial



Título: “Rigidity of surfaces with constant extrinsic curvature in Riemannian product spaces”

Palestrante: Fábio Reis dos Santos

In this talk we deal with complete surfaces having constant extrinsic curvature in a Riemannian product space $M^2(c) \times \mathbb{R}$, where $M^2(c)$ is a space form with constant sectional curvature $c \in \{-1, 1\}$. In such setting, we find a Simons-type formula for Cheng-Yau’s operator is used to prove that such surfaces are isometric to a cylinder $\mathbb{H}^1 \times \mathbb{R}$, when $c = -1$ or isometric to a slice $\mathbb{S}^2 \times \{t\}$ for some $t \in \mathbb{R}$ when $c = 1$. Finally, we extend the result, when $c = -1$, for the Weingarten linear case.

Data: 16 de Julho de 2020 (Quinta Feira)

Link: meet.google.com/ogz-pgoj-ocb

Data: 10:00