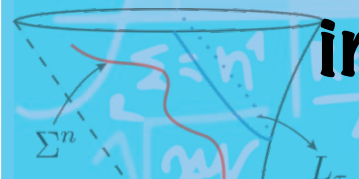
Universidade Federal de Campina Grande
Centro de Ciências e Tecnologia
1 Escola de Inverno em Geometria DIferencial

Título: "On the linear Weingarten spacelike submanifolds immersed in a locally symmetric semi-Riemannian space"



Palestrante: Weiller Felipe Chaves Barboza

Resumo: Let M^n be an n-dimensional complete linear Weingarten spacelike submanifold immersed with parallel normalized mean curvature vector field and flat normal bundle in a locally symmetric semi-Riemannian space L_p^{n+p} of index p, which obeys standard curvature constraints (such an ambient space can be regarded as an extension of a semi-Riemannian space form). In this setting, our purpose is to establish sufficient conditions guaranteeing that such a spacelike submanifold M^n be either totally umbilical or isometric to an isoparametric hypersurface of a totally geodesic submanifold $L_1^{n+1} \hookrightarrow L_p^{n+p}$, with two distinct principal curvatures, one of which is simple. Our approach is based on a suitable Simons type formula jointly with a version of the Omori-Yau's generalized maximum principle for a Cheng-Yau's modified operator.

Data: 20 de agosto de 2020 (Quinta Feira)
Link: meet.google.com/npz-qedi-vsy
Data: 10:00

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