Convexity of the Non-Negative Sectional Curvatures Euclidean n-dimensional Hypersurfaces

Clebes N. Brandão[1], Ivan A. Tribuzy[2]
[1,2] Departamento de Matem_atica-ICE-UFAM, 69077-070-Manaus-AM-BR

Resumo/Abstract:
In 1972 M. do Carmo and E. Lima, they gave a new proof of a theorem by Sacksteder. Using Diferential Topology arguments, the two authors prove, among other things, that a euclidean complete hypersurface M^n with non-negative sectional curvature is convex at least one of these sectional curvature is positive.

References

[1] C. N. Brandão Convexidade de Hipersuperfcies de R^{n+1} com Curvaturas Seccionais Não Negativas, Dissertação de Mestrado, Universidade Federal do Amazonas, Manaus, (2014).
[2] M. Do Carmo and E. Lima Immersions of manifolds with non-negative sectional curvatures, Bol. Soc. Bras. Mat. 2(1971), 9-22. 1, 2, 18.