Seminário de Geometria

GAP Theorems for minimal submanifolds of a Hyperbolic Space

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Abstract. In the early's 1970, M. P. do Carmo conjectured that any stable complete minimal hypersurfaces in $\mathbb{R}^n$ are planes. Years later, they proved this conjecture under certain conditions. In this talk, we extend similar results for submanifolds of Hyperbolic spaces, in which we used inequalities of Simons and Kato type, integral estimates of the second fundamental form and estimates of eigenvalues for submanifolds of Hyperbolic spaces.