

SEMINÁRIO DE GEOMETRIA DIFERENCIAL

Lower bounds for the stability index of constant mean curvature surfaces

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Abstract. In this talk, inspired in some recent results about minimal hypersurfaces, we prove that the stability index of a compact CMC surface in the Euclidean space or in the unit sphere is bounded from below by a linear of the genus. We also will discuss some results in the case of free-boundary CMC surfaces in a mean convex body of \mathbb{R}^3 . These results are part of joint works with Darlan de Oliveira (UEFS).