



Horizontal Delaunay surfaces with constant mean curvature in product spaces

Desde el Vie, 20/11/2020 - 10:30

Novedades

In this talk, we will describe the 1-parameter family of horizontal Delaunay surfaces in $S^2 \times \mathbb{R}$ and $H^2 \times \mathbb{R}$ with supercritical constant mean curvature. These surfaces are not equivariant but singly periodic, and they lie at bounded distance from a horizontal geodesic. We will show that horizontal unduloids are properly embedded surfaces in $H^2 \times \mathbb{R}$. We also describe the first non-trivial examples of embedded constant mean curvature tori in $S^2 \times \mathbb{R}$ which are continuous deformations from a stack of tangent spheres to a horizontal invariant cylinder. They have constant mean curvature $H > 12$. Finally, we prove that there are no properly immersed surface with critical or subcritical constant mean curvature at bounded distance from a horizontal geodesic in $H^2 \times \mathbb{R}$.



[Acceso a sala Zoom.](#)

Contraseña 786875