

Hypersurfaces with canonical principal direction

Oscar Palmas, UNAM, Mexico

Abstract:

Given a vector field defined on a semi-Riemannian manifold, a submanifold is said to have a canonical principal direction with respect to the vector field if the projection of this vector field onto the tangent space of the submanifold defines a principal direction. In this talk we will give some examples of these kind of hypersurfaces, a canonical way to build them, as well as some of their characterizations.