



# UNIVERSIDAD DE GRANADA

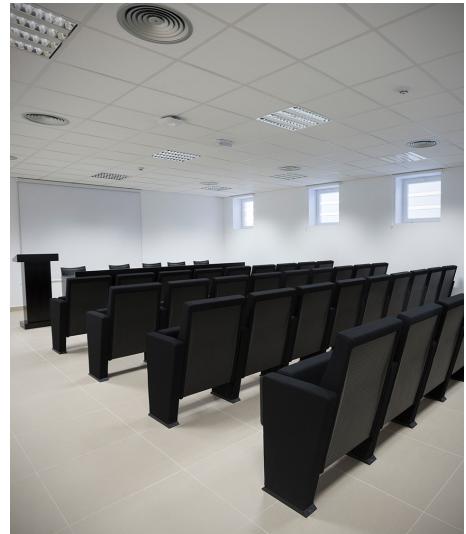
Departamento de  
Geometría y Topología

## Hypersurfaces of constant higher order mean curvature in $M \times \mathbb{R}$

Desta el Vie, 27/11/2020 - 14:00

### Novedades

We consider hypersurfaces of products  $M \times \mathbb{R}$  with constant  $r$ -th mean curvature — to be called  $H_r$ -hypersurfaces — where  $M$  is an arbitrary Riemannian manifold. We develop a general method for constructing them, and employ it to produce many examples for a variety of manifolds  $M$ , including all simply connected space forms and the Hadamard manifolds known as Damek-Ricci spaces. Uniqueness results for complete  $H_r$ -hypersurface of  $H^n \times \mathbb{R}$  or  $S^n \times \mathbb{R}$  ( $n \geq 3$ ) are also obtained. This is a joint work with Ronaldo de Lima (UFRN) and Fernando Manfio (ICMC-USP).



Sala [virtual](#)

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