



# UNIVERSIDAD DE GRANADA

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Departamento de  
Geometría y Topología

## Existence of isoperimetric regions in sub-Finsler nilpotent groups

Desde el Vie, 16/04/2021 - 13:00

### Novedades

**Julián Pozuelo** (Universidad de Granada)

We consider a nilpotent Lie group with a bracket-generating distribution  $H$  and an asymmetric left-invariant norm  $\|\cdot\|$  induced by a convex body  $K$  in  $H$  containing  $0$  in its interior. In this talk, we will associate a left-invariant perimeter functional  $P$  to  $K$  following De Giorgi's definition of perimeter and prove the existence of minimizers of  $P$  under a volume (Haar measure) constraint. We will also discuss some properties of the isoperimetric regions and the isoperimetric profile.

Sala CURIE UGR (virtual)

Password: 182335

