

SEMINAR

CAPDE

EXPOSITOR

4.10pm Hanne Van Den Bosch (CMM, Chile)

Title: Gagliardo-Nirenberg-Sobolev inequalities in domains

Abstract: Our objective is to estimate constants for a type of Gagliardo-Nirenberg-Sobolev inequalities in domains in euclidean space. We obtain a rough bound valid for bounded convex domains in dimension 3 and higher. When the domain is a cube, we obtain an improved bound in any dimension. In one dimension, the sharp constant is simply related to the sharp constant of the inequality on the real line and I will comment on the open question whether this holds true in higher dimensions.

Joint work with Rafael Benguria and Cristobal Vallejos.

Monday April 16, 2018

Sala de Seminarios Felipe Álvarez Daziano 5to piso del DIM